

| RE: B240103 - Lot 137 HM Site Information: Project Customer: Summit Homes Project Name: Lot/Block: 137 Subdivisi Model: Riverside - Modern Farmhouse Address: 2759 SW 12th Terr City: Lee's Summit State: Me General Truss Engineering Criteria & Design Load Drawings Show Special Loading Conditions): Design Code: IRC2018/TPI2014 Wind Code: ASCE 7-16 [Notind Regreted: 115 mph | MiTek, Inc. 16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 S (Individual Truss Design Design Program: MiTek 20/20 8.7 Design Method: MWFRS (Envelope) ASCE 7-16 [Low Rise] |
|--|---|
| Roof Load: 45.0 psf | Floor Load: N/A psf |
| Mean Roof Height (feet): 25 | Exposure Category: C |
| No.Seal#Truss NameDateNo.Seal#1 $ 65311995$ A1 $5/3/24$ 35 $ 6531201$ 2 $ 65311997$ A3 $5/3/24$ 36 $ 6531201$ 3 $ 65311997$ A3 $5/3/24$ 37 $ 6531201$ 4 $ 65311998$ B1 $5/3/24$ 38 $ 6531201$ 5 $ 65311999$ B2 $5/3/24$ 39 $ 6531201$ 6 $ 65312000$ C1 $5/3/24$ 40 $ 6531201$ 7 $ 65312002$ D1 $5/3/24$ 41 $ 6531201$ 8 $ 65312002$ D1 $5/3/24$ 42 $ 6531201$ 9 $ 65312006$ E2 $5/3/24$ 42 $ 6531200$ 9 $ 65312006$ E3 $5/3/24$ 42 $ 6531200$ 10 $ 65312007$ G1 $5/3/24$ 42 $ 6531201$ 11 $ 65312010$ H1 $5/3/24$ 42 $ 6531201$ 12 $ 65312012$ H3 $5/3/24$ 4214 $ 65312012$ H3 $5/3/24$ 4215 $ 65312012$ H3 $5/3/24$ 16 $ 65312013$ H4 $5/3/24$ 20 $ 65312014$ H5 $5/3/24$ 21 $ 65312020$ J2 $5/3/24$ 22 $ 65312023$ R1 $5/3/24$ 23 $ 65312024$ V1 $5/3/24$ 24 $ 65312026$ V2 $5/3/24$ 25 $ 65312026$ V2 $5/3/24$ 26 $ 65312026$ V3 $5/3/24$ | Truss Name Date 29 V6 5/3/24 30 V7 5/3/24 31 V8 5/3/24 32 V9 5/3/24 33 V10 5/3/24 34 V11 5/3/24 35 V12 5/3/24 36 V13 5/3/24 36 V13 5/3/24 |
| The truss drawing(s) referenced above have been prepared MiTek USA, Inc. under my direct supervision based on th provided by Wheeler - Waverly. | by e parameters |

Truss Design Engineer's Name: Sevier, Scott My license renewal date for the state of Missouri is December 31, 2025.

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 parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



| Job | Truss | Truss Type | Qty | Ply | Lot 137 HM | |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B240103 | A1 | Hip Girder | 1 | 1 | Job Reference (optional) | 165311995 |

-0-10-8

0-10-8

4-0-0

4-0-0

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Thu May 02 07:32:16 ID:XpMCmw72opF9?k_wkjEbUFziJgJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



14-10-8

0-10-8

14-0-0

4-0-0

rzophark_wkjebuHziJgJ-ktU?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





10-0-0

6-0-0

Scale = 1:31.7

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

| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 25.0 10.0 0.0 * 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 NO IRC2018 | 3/TPI2014 | CSI TC BC WB Matrix-S | 0.78 0.79 0.09 | DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL) | in -0.11 -0.24 0.03 0.09 | (loc) 8-9 8-9 7 8-9 | l/defl >999 >683 n/a >999 | L/d 360 240 n/a 240 | PLATES MT20 Weight: 45 lb | GRIP 197/144 FT = 10% | |
|---|---|--|--|--|--|--|--|--------------------------------------|---------------------------------|---------------------------------------|---------------------------------|---------------------------------|------------------------------------|---|
| LUMBER TOP CHORE BOT CHORE WEBS BRACING TOP CHORE | 2x4 SPF No.2 *Exce 1.8E 2x4 SPF No.2 2x3 SPF No.2 *Exce 2400F 2.0E Structural wood she 3-7-13 oc purlins, e | pt* 3-4:2x4 SPF 21(pt* 10-2,7-5:2x6 SP athing directly applie xcept end verticals, | 5) 00F 6) 7) ed or and 8) | * This truss h on the bottom 3-06-00 tall b chord and an All bearings a Provide med bearing plate 10 and 196 ll This truss is laterrational | has been designed in chord in all areas by 2-00-00 wide will by other members. are assumed to be hanical connection capable of withsta o uplift at joint 7. designed in accord Residential Code | for a liv s where I fit betw SPF No (by oth anding 1 dance w | e load of 20. a rectangle veen the bott 0.2. ers) of truss 96 lb uplift a ith the 2018 | Opsf tom to t joint | | | | | | |
| BOT CHORE | 2-0-0 oc purlins (5-9 Rigid ceiling directly bracing. (size) 7=0-3-8, 1 Max Horiz 10=-49 (L Max Uplift 7=-196 (L Max Grav 7=927 (LC | -13 max.): 3-4. applied or 10-0-0 or 10=0-3-8 C 6) C 9), 10=-196 (LC 8 C 1), 10=927 (LC 1) | c 9) 3) 10 | R802.10.2 ar Graphical pu or the orienta bottom chorc Hanger(s) or provided suff | residential codes and referenced stan rlin representation ation of the purlin a l. other connection of icient to support co | dard AN does no long the device(s | ISI/TPI 1. ot depict the set top and/or) shall be tted load(s) 1 | size 184 | | | | | | |
| F ORCES TOP CHORE | (lb) - Maximum Com Tension) 1-2=0/35, 2-3=-1354 4-5=-1355/270, 5-6= | pression/Maximum 1/270, 3-4=-1131/26 0/35, 2-10=-839/19 | 9, 7, | at 6-0-12, ar 184 lb down 74 lb down a down at 7-1 | and 86 lb down and and 147 lb up at 1 t 4-0-0, 31 lb down 1-4, and 74 lb down | , 80 10 0 65 lb up 0-0-0 o n at 6-0 n at 9-1 | at 7-11-4, and to 7 and to 7 at 7-11-4, and to 7 and 11 at 12, and 31 at 1-12, and 31 at 1-4 on botto | and and Ib m | | | | | | |
| BOT CHORE | 5-7=-839/197 9-10=-227/1135, 8-9 7-8=-207/1137 3-9=0/288, 3-8=-31/3 | 9=-233/1129, 35, 4-8=0/289 | 11 | chord. The c (s) is the resp) In the LOAD of the truss a | lesign/selection of consibility of others CASE(S) section, re noted as front (I | such co s. Ioads aj F) or ba | nnection dev oplied to the ck (B). | vice face | | | | OF N | | |
| NOTES 1) Unbaland this desig 2) Wind: AS Vasd=91 II; Exp C cantileve right exp | ced roof live loads have gn. SCE 7-16; Vult=115mph mph; TCDL=6.0psf; BC ; Enclosed; MWFRS (er r left and right exposed osed: Lumber DOL=1.6 | been considered fo (3-second gust) DL=6.0psf; h=25ff; (ivelope) exterior zor ; end vertical left an 0 plate grip DOL=1 (| LC r 1) Cat. ne; id 60 | DAD CASE(S) Dead + Roc Plate Increa Uniform Loa Vert: 1-2: 7-10=-20 Concentrate Vert: 3-a | Standard of Live (balanced): ise=1.15 ads (lb/ft) =-70, 2-3=-70, 3-4= ed Loads (lb) 111 (B) 4=-111 (B | Lumber =-70, 4- | Increase=1. 5=-70, 5-6=-7 | .15, 70, B) | | Ę | | STATE OF T | I M. ER | 7 |

- right exposed; Lumber DOL=1.60 plate grip DOL=1.60Provide adequate drainage to prevent water ponding.This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.

Vert: 3=-111 (B), 4=-111 (B), 9=-58 (B), 8=-58 (B), 11=-46 (B), 12=-46 (B), 13=-25 (B), 14=-25 (B)



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May 3,2024

PE-2001018807

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| Job | Truss | Truss Type | Qty | Ply | Lot 137 HM | |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B240103 | A2 | Hip | 1 | 1 | Job Reference (optional) | 165311996 |

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Thu May 02 07:32:17

Wheeler Lumber, Waverly, KS - 66871,



Scale = 1:32.3 Plate Offsets (X, Y): [7:Edge.0-5-8]

3-9-3

| iale Oliseis (| (A, 1). [1.Luge,0-5-6] | | | | | | | | | | | | |
|---|--|--|-------------------------------|--|--|--|---|------------------------------|----------------------------|-------------------------------|--------------------------|----------------|------------------------|
| Loading TCLL (roof) TCDL BCLL | (psf) 25.0 10.0 0.0* | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr | 2-0-0 1.15 1.15 YES | 2/10/2014 | CSI TC BC WB Matrix S | 0.50 0.26 0.06 | DEFL Vert(LL) Vert(CT) Horz(CT) | in -0.03 -0.07 0.01 | (loc) 9-10 9-10 7 | l/defl >999 >999 n/a | L/d 360 240 n/a | PLATES MT20 | GRIP 197/144 |
| BCDL | 10.0 | Code | IRC2018 | 3/TPI2014 | Matrix-S | | vvind(LL) | 0.01 | 9-10 | >999 | 240 | vveight: 45 lb | FI = 10% |
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD | 2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 *Exce No.2 Structural wood she 5-11-5 oc purlins, e 2-0-0 oc purlins (6-0 | pt* 10-2,7-5:2x6 SPI athing directly applie xcept end verticals, a -0 max.): 3-4. | 7) F 8) ed or 9) and | Provide mec bearing plate 10 and 94 lb This truss is International R802.10.2 ar Graphical pu or the orienta bottom chord | hanical connection capable of withst uplift at joint 7. designed in accor Residential Code nd referenced star rlin representation ation of the purlin a d. | n (by oth anding 9 dance w sections ndard AN n does no along the | ers) of truss t 4 lb uplift at j th the 2018 8 R502.11.1 a NSI/TPI 1. tot depict the s top and/or | to oint and size | | | | | |
| 3OT CHORD | Rigid ceiling directly bracing. | applied or 10-0-0 oc | ; LC | OAD CASE(S) | Standard | | | | | | | | |
| REACTIONS | (size) 7=0-3-8, 1 Max Horiz 10=-61 (L Max Uplift 7=-94 (LC Max Grav 7=687 (LC | 10=0-3-8 C 6) S 9), 10=-94 (LC 8) C 1), 10=687 (LC 1) | | | | | | | | | | | |
| FORCES | (lb) - Maximum Com Tension | pression/Maximum | | | | | | | | | | | |
| TOP CHORD | 1-2=0/35, 2-3=-803/ 4-5=-804/77, 5-6=0/ 5-7=-624/138 | 77, 3-4=-625/115, 35, 2-10=-624/138, | | | | | | | | | | | |
| BOT CHORD | 9-10=-28/627, 8-9=- 3-9=0/151 3-8=-126 | 29/624, 7-8=0/627 | | | | | | | | | | | |
| | 000,101,00 120 | , 120, 10, 10, 10, | | | | | | | | | | | - |
| Unbalance this design Wind: AS(| ed roof live loads have n. CE 7-16: Vult=115mph | been considered for (3-second aust) | | | | | | | | | E | TE OF M | AISSOL |
| Vasd=91n II; Exp C; cantilever right expo | nph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed: Lumber DOL=1.6 | DL=6.0psf; h=25ft; C velope) exterior zon ; end vertical left and 0 plate grip DOI =1.6 | Cat. le; d S0 | | | | | | | | a. | SCOT SEVI | F M. |
| A) Provide ad 1) This truss chord live 5) * This trus | dequate drainage to pr has been designed for load nonconcurrent wi s has been designed for | event water ponding r a 10.0 psf bottom th any other live load or a live load of 20.0 | ds. psf | | | | | | | | P | NUM PE-2001 | 018807 24 |
| on the bot 3-06-00 ta chord and | tom chord in all areas all by 2-00-00 wide will any other members. | where a rectangle fit between the botto | m | | | | | | | | Ŷ | SSIONA | L ENGIL |

6) All bearings are assumed to be SPF No.2 .

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| Job | Truss | Truss Type | Qty | Ply | Lot 137 HM | |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B240103 | A3 | Common | 4 | 1 | Job Reference (optional) | 165311997 |

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Wheeler Lumber, Waverly, KS - 66871,



Plate Offsets (X, Y): [6:Edge,0-5-8]

| ······································ | 3-,1 | - | | | | | | | | | | | |
|--|-------|-----------------|------------------|-----------------|-------------|--------------|-------|-------|--------|-----|---------------|----------|--|
| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.54 | Vert(LL) | -0.04 | 6-7 | >999 | 360 | MT20 | 197/144 | |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.38 | Vert(CT) | -0.09 | 6-7 | >999 | 240 | | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.07 | Horz(CT) | 0.01 | 6 | n/a | n/a | | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | Wind(LL) | 0.03 | 7-8 | >999 | 240 | Weight: 41 lb | FT = 10% | |
| LUMBER | | | 7) This truss is | designed in acc | cordance wi | ith the 2018 | | | | | | | |

- TOP CHORD
- 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 2x6 SPF No.2 *Except* 7-3:2x4 SPF No.2 WEBS BRACING TOP CHORD Structural wood sheathing directly applied or 5-9-9 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS 6=0-3-8, 8=0-3-8 (size) Max Horiz 8=-69 (LC 6) Max Uplift 6=-101 (LC 9), 8=-101 (LC 8) Max Grav 6=687 (LC 1), 8=687 (LC 1) FORCES (Ib) - Maximum Compression/Maximum
- Tension 1-2=0/35, 2-3=-772/105, 3-4=-772/105, TOP CHORD 4-5=0/35, 2-8=-630/150, 4-6=-630/150 BOT CHORD 7-8=-20/586, 6-7=-20/586 WFBS 3-7=0/296

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 . 5)
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 101 lb uplift at joint 8 and 101 lb uplift at joint 6.

- - International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



May 3,2024

Page: 1

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| Job | Truss | Truss Type | Qty | Ply | Lot 137 HM | |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B240103 | B1 | Monopitch | 7 | 1 | Job Reference (optional) | 165311998 |

5-0-0 5-0-0

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Thu May 02 07:32:17 ID:vBszku21ozNPT?RIzYtJMSyXqDi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



2x4 II 3







Scale = 1:26.5

| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 25.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC2018/TPI2014 | CSI TC BC WB Matrix-P | 0.42 0.23 0.00 | DEFL Vert(LL) Vert(CT) Horz(CT) | in -0.03 -0.06 0.00 | (loc) 2-4 2-4 4 | l/defl >999 >933 n/a | L/d 360 240 n/a | PLATES MT20 Weight: 13 lb | GRIP 197/144 FT = 10% | |
|---|---|--|---|-----------------------------------|----------------------|--|------------------------------|--------------------------|-------------------------------|--------------------------|--|------------------------------------|---|
| | | | | | | | | | | | | | |
| BOT CHORD | 2x4 SPF No.2 2x4 SPF No.2 | | | | | | | | | | | | |
| WEBS | 2x3 SPF No.2 | | | | | | | | | | | | |
| BRACING | Structural wood she | eathing directly appli | ed or | | | | | | | | | | |
| | 5-0-0 oc purlins, ex | cept end verticals. | | | | | | | | | | | |
| BOT CHORD | Rigid ceiling directly bracing. | y applied or 10-0-0 o | с | | | | | | | | | | |
| REACTIONS | (size) 2=0-3-8, | 4= Mechanical | | | | | | | | | | | |
| | Max Horiz 2=76 (LC Max Uplift 2=-58 (LC | 5) C 4), 4=-45 (LC 8) | | | | | | | | | | | |
| | Max Grav 2=252 (L | .C 1), 4=212 (LC 1) | | | | | | | | | | | |
| FORCES | (lb) - Maximum Cor | npression/Maximum | | | | | | | | | | | |
| TOP CHORD | 1-2=0/6, 2-3=-66/43 | 3, 3-4=-164/74 | | | | | | | | | | | |
| BOT CHORD | 2-4=-24/18 | , | | | | | | | | | | | |
| NOTES | | | | | | | | | | | | | |
| 1) Wind: ASC | E 7-16; Vult=115mpl | h (3-second gust) | a <i>i</i> | | | | | | | | | | |
| Vasd=91m | ipn; ICDL=6.0pst; BC Enclosed: MW/ERS (e | DL=6.0pst; n=25π; | Cat. | | | | | | | | | | |
| cantilever l | left and right exposed | : end vertical left ar | nd | | | | | | | | | | |
| right expos | sed; Lumber DOL=1.6 | 50 plate grip DOL=1. | 60 | | | | | | | | | | |
| 2) This truss I | has been designed fo | or a 10.0 psf bottom | | | | | | | | | | | |
| chord live I | load nonconcurrent w | ith any other live loa | ids. | | | | | | | | O DE I | ALC: NO | |
| 3) * This truss | s has been designed | for a live load of 20.0 | Opsf | | | | | | | | ALE OF I | UISS OF | |
| 3-06-00 tal | 0m chord in all areas | fit between the bott | om | | | | | | | A | | N.S | |
| chord and | any other members | | | | | | | | | R | SCOT | ГМ. ХЕУ | λ |
| All bearing | s are assumed to be | SPF No.2 . | | | | | | | | R | SEV | ER \ | 8 |
| 5) Refer to gi | rder(s) for truss to tru | ss connections. | | | | | | | | 11 | | * | Ŋ |
| Provide me | echanical connection | (by others) of truss t | 0 | | | | | | | 81 | 0 | 0 1 | 8 |
| bearing pla | ate capable of withsta | inding 45 lb uplift at j | oint | | | | | | | 8- | 1 store | Some | 8 |
| 4 and 58 lb | o uplift at joint 2. | anao with the 2010 | | | | | | | | W7 | PE_2001 | 018807 181 | 9 |
| Internation | al Residential Code s | sections R502 11 1 a | nd | | | | | | | N. | -2001 | STORE A | 6 |
| R802.10.2 | and referenced stand | dard ANSI/TPI 1. | | | | | | | | Y | 1ºSa | JON B | |
| LOAD CASE(S | S) Standard | | | | | | | | | | NONA | LET | |

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May 3,2024

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| Job | Truss | Truss Type | Qty | Ply | Lot 137 HM | |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B240103 | B2 | Monopitch | 3 | 1 | Job Reference (optional) | 165311999 |

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Thu May 02 07:32:17 ID:vBszku21ozNPT?RIzYtJMSyXqDi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







Scale = 1:30.4

| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 25.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC2018/TPI2014 | CSI TC BC WB Matrix-P | 0.77 0.42 0.00 | DEFL Vert(LL) Vert(CT) Horz(CT) | in -0.17 -0.34 0.00 | (loc) 2-4 2-4 4 | l/defl >553 >276 n/a | L/d 360 240 n/a | PLATES MT20 Weight: 21 lb | GRIP 197/144 FT = 10% | |
|---|--|---|---|-----------------------------------|----------------------|--|------------------------------|--------------------------|-------------------------------|--------------------------|---------------------------------|------------------------------------|---|
| | 2×4 SPE 2100E 1 8 | - | | | | | | | | | | | |
| BOT CHORD WEBS | 2x4 SPF 2100F 1.8E 2x3 SPF No.2 | | | | | | | | | | | | |
| BRACING | 2.00 0.1 110.2 | | | | | | | | | | | | |
| TOP CHORD | Structural wood she 6-0-0 oc purlins, ex | athing directly appli cept end verticals. | ed or | | | | | | | | | | |
| BOT CHORD | Rigid ceiling directly bracing. | applied or 10-0-0 c | C | | | | | | | | | | |
| REACTIONS | (size) 2=0-3-8, 4 Max Horiz 2=121 (LC Max Uplift 2=-79 (LC Max Gray 2=386 (LC | 4= Mechanical C 5) C 4), 4=-74 (LC 8) C 1) 4=348 (LC 1) | | | | | | | | | | | |
| FORCES | (lb) - Maximum Com | pression/Maximum | | | | | | | | | | | |
| TOP CHORD BOT CHORD | 1-2=0/6, 2-3=-105/7 2-4=-38/29 | 0, 3-4=-270/121 | | | | | | | | | | | |
| NOTES | | | | | | | | | | | | | |
| 1) Wind: ASC Vasd=91m | E 7-16; Vult=115mph ph; TCDL=6.0psf; BC | (3-second gust) DL=6.0psf; h=25ft; | Cat. | | | | | | | | | | |
| cantilever | Enclosed; MVVERS (er | ; end vertical left ar | ne; nd | | | | | | | | | | |
| right expos | ed; Lumber DOL=1.6 | 0 plate grip DOL=1. | 60 | | | | | | | | | | |
| This truss chord live | has been designed fo | r a 10.0 psf bottom | hds | | | | | | | | 000 | ADD | |
| 3) * This truss | s has been designed f | or a live load of 20. | Opsf | | | | | | | | OF I | MISC | |
| on the bott | om chord in all areas | where a rectangle | | | | | | | | 6 | TATO | N'OC | |
| 3-06-00 tal | any other members | fit between the bott | om | | | | | | | A | SCOT | ГМ. VEV | |
| All bearing | s are assumed to be | SPF No.2 . | | | | | | | | R T | SEVI | ER \'Y | λ |
| 5) Refer to gi | rder(s) for truss to trus | ss connections. | | | | | | | | 8 * | | * | 8 |
| 6) Provide me | echanical connection | (by others) of truss | to | | | | | | | 8 * | b | | Ø |
| bearing pla 4 and 79 lb | ate capable of withstai | nding 74 lb uplift at j | oint | | | | | | | NE | Catton | former? | 8 |
| 7) This truss | is designed in accorda | ance with the 2018 | | | | | | | | N | PE-2001 | 018807 | 7 |
| Internation | al Residential Code s | ections R502.11.1 a | and | | | | | | | V | The | 158 | |
| R802.10.2 | and referenced stand | lard ANSI/TPI 1. | | | | | | | | | SION | TENO | |
| LUAD CASE(S | standard | | | | | | | | | | NN NA | L | |

DEVELOPMENT SERVICES LEE'S' SUMMIT'S MISSOURI 05/24/2024 2:42:15

ΤΙΟΝ 'IEW

May 3,2024

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 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 touls be personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TPI1 Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

| Job | Truss | Truss Type | Qty | Ply | Lot 137 HM | |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B240103 | C1 | GABLE | 1 | 1 | Job Reference (optional) | 165312000 |

10-0-0

Wheeler Lumber, Waverly, KS - 66871,

Loading

TCDI

BCLL

BCDL

WEBS

OTHERS

FORCES

WEBS

NOTES

2)

3)

4)

LUMBER

-0-10-8

Run: 8,73 S Apr 25 2024 Print: 8,730 S Apr 25 2024 MiTek Industries, Inc. Thu May 02 07:32:17 ID:vBszku21ozNPT?RIzYtJMSyXqDi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

LEE'S'SUMMIT'SMISSOURI 05/24/2024 2:42:15

0-10-8 10-0-0 7 12 4 6 0 5 4 3-10-0 1-3 ř ø 3 Þ 0-9-(A 8 12 11 10 9 10-0-0 Scale = 1:28.2 Spacing 2-0-0 CSI DEFL l/defl L/d PLATES GRIP (psf) in (loc) TCLL (roof) 25.0 Plate Grip DOL 1.15 TC 0.09 Vert(LL) n/a n/a 999 MT20 197/144 BC 10.0 Lumber DOL 1 15 999 0.03 Vert(CT) n/a n/a 0.0* Rep Stress Incr YES WB 0.03 Horz(CT) 0.00 8 n/a n/a 10.0 Code IRC2018/TPI2014 Matrix-S Weight: 35 lb FT = 10% Gable studs spaced at 2-0-0 oc. 5) TOP CHORD 2x4 SPF No.2 This truss has been designed for a 10.0 psf bottom 6) 2x4 SPF No.2 chord live load nonconcurrent with any other live loads. BOT CHORD * This truss has been designed for a live load of 20.0psf 2x3 SPF No.2 2x4 SPF No.2 on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom BRACING chord and any other members. TOP CHORD Structural wood sheathing directly applied or 8) All bearings are assumed to be SPF No.2 . 6-0-0 oc purlins, except end verticals. Provide mechanical connection (by others) of truss to 9) BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bearing plate capable of withstanding 16 lb uplift at joint bracing. 8, 22 lb uplift at joint 2, 52 lb uplift at joint 12, 44 lb uplift **REACTIONS** (size) 2=10-0-0, 8=10-0-0, 9=10-0-0, at joint 11, 42 lb uplift at joint 10 and 46 lb uplift at joint 9. 10=10-0-0, 11=10-0-0, 12=10-0-0 Max Horiz 2=158 (LC 7) 10) This truss is designed in accordance with the 2018 Max Uplift 2=-22 (LC 4), 8=-16 (LC 5), 9=-46 International Residential Code sections R502.11.1 and (LC 4), 10=-42 (LC 8), 11=-44 (LC 4), 12=-52 (LC 8) R802.10.2 and referenced standard ANSI/TPI 1. LOAD CASE(S) Standard Max Grav 2=150 (LC 1), 8=69 (LC 1), 9=194 (LC 1), 10=177 (LC 1), 11=180 (LC 1), 12=182 (LC 1) (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/6, 2-3=-129/27, 3-4=-102/21, 4-5=-86/21, 5-6=-76/22, 6-7=-61/29, 7-8=-53/22 BOT CHORD 2-12=-50/37, 11-12=-50/37, 10-11=-50/37, 9-10=-50/37, 8-9=-50/37 OF MISS 3-12=-140/77, 4-11=-141/67, 5-10=-138/68, 6-9=-151/62 SCOTT M. 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) SEVIER Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 Truss designed for wind loads in the plane of the truss PE-200101880 only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable SIONAL or consult qualified building designer as per ANSI/TPI 1. E All plates are 2x4 MT20 unless otherwise indicated. Gable requires continuous bottom chord bearing. May 3,2024 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

and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponent.com)

| Job | Truss | Truss Type | Qty | Ply | Lot 137 HM | |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B240103 | C2 | Monopitch | 10 | 1 | Job Reference (optional) | 165312001 |

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Thu May 02 07:32:18 ID:vBszku21ozNPT?RIzYtJMSyXqDi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



| 4-11-6 | 10-0-0 |
|--------|--------|
| 4-11-6 | 5-0-10 |

| Scale = 1:33.2 | | | | | | | | | | | | | |
|----------------|-------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|--|
| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | тс | 0.30 | Vert(LL) | -0.02 | 2-6 | >999 | 360 | MT20 | 197/144 | |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.26 | Vert(CT) | -0.04 | 5-6 | >999 | 240 | | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.50 | Horz(CT) | 0.01 | 5 | n/a | n/a | | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | Wind(LL) | 0.02 | 2-6 | >999 | 240 | Weight: 33 lb | FT = 10% | |
| LUMBER | | | LOAD CASE(S) | Standard | | | | | | | | | |

| LOWIDER | | |
|-----------|------------------------|--|
| TOP CHORD | 2x4 SPF | No.2 |
| BOT CHORD | 2x4 SPF | No.2 |
| WEBS | 2x3 SPF | No.2 |
| BRACING | | |
| TOP CHORD | Structura 6-0-0 oc | l wood sheathing directly applied or purlins, except end verticals. |
| BOT CHORD | Rigid ceil bracing. | ing directly applied or 10-0-0 oc |
| REACTIONS | (size) | 2=0-3-8, 5= Mechanical |
| | Max Horiz | 2=158 (LC 5) |
| | Max Uplift | 2=-115 (LC 4), 5=-94 (LC 8) |
| | Max Grav | 2=514 (LC 1), 5=435 (LC 1) |
| FORCES | (lb) - Max Tension | imum Compression/Maximum |
| TOP CHORD | 1-2=0/6, 2 | 2-3=-782/113, 3-4=-109/21, |
| | 4-5=-141 | /57 |
| BOT CHORD | 2-6=-134 | /682, 5-6=-134/682 |
| WEBS | 3-6=0/228 | 8, 3-5=-714/178 |
| NOTES | | |
| | | |

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 * This truss has been designed for a live load of 20.0psf
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SPF No.2 .
- 5) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 94 lb uplift at joint 5 and 115 lb uplift at joint 2.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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| Job | Truss | Truss Type | Qty | Ply | Lot 137 HM | |
|---------|-------|------------------------|-----|-----|--------------------------|-----------|
| B240103 | D1 | Common Supported Gable | 1 | 1 | Job Reference (optional) | 165312002 |

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Thu May 02 07:32:18 ID:vBszku21ozNPT?RIzYtJMSyXqDi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

3x4 =

22-4-0

-0-10-8 0-10-8 11-2-0 22-4-0 11-2-0 11-2-0 4x5 = 7 6 æ 8 1<u>2</u> 4 Г 5 9 4 10 4-2-11 3 6 11 6 2 0-9-0 50 \otimes 23 22 21 20 19 18 17 16 15 14 3x4 = 3x4 =

Scale = 1:44.2

4-3-14

| L oading TCLL (roof) TCDL | (psf) 25.0 10.0 | Spacing Plate Grip DOL Lumber DOL | 2-0-0 1.15 1.15 | | CSI TC BC | 0.09 | DEFL Vert(LL) Vert(CT) | in n/a n/a | (loc) - - | l/defl n/a n/a | L/d 999 999 | PLATES MT20 | GRIP 197/144 | |
|---|---|--|--|---|---|---|---|---|-----------------|----------------------|-------------------|---|------------------------|--|
| BCLL | 0.0* | Rep Stress Incr | YES | | WB | 0.03 | Horz(CT) | 0.00 | 12 | n/a | n/a | | | |
| BCDL | 10.0 | Code | IRC2018 | 3/TPI2014 | Matrix-S | | | | | | | Weight: 77 lb | FT = 10% | |
| LUMBER TOP CHORD 30T CHORD 30T CHORD 30T CHORD 30T CHORD REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD WEBS | 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Structural wood shee 6-0-0 oc purlins. Rigid ceiling directly bracing. (size) 2=22-4-0 15=22-4-0 22=22-4-0 22=22-4-0 Max Horiz 2=71 (LC Max Uplift 2=-45 (LC 14=-68 (L 20=-46 (L 22=-36 (L 16=-44 (L 20=-46 (L 22=-36 (L 14=275 (L 16=187 (L 19=163 (L 21=187 (L 23=275 (L (lb) - Maximum Com 1-2=0/6, 2-3=-81/59, 5-6=-29/92, 6-7=-31 1-12=-56/38, 12-13 2-23=-3/57, 22-23=- 20-21=-3/57, 15-16= 12-14=-3/57 7-19=-123/0, 6-20=- 4-22=-117/57, 3-23= 9-16=-144/69, 10-15 | athing directly applied applied or 10-0-0 oc 12=22-4-0, 14=22-4- 0, 16=22-4-0, 17=22 0, 20=22-4-0, 21=22 0, 23=22-4-0 8) 3 (4), 12=-54 (LC 5), C 9), 15=-36 (LC 5), C 9), 17=-46 (LC 9), C 8), 21=-44 (LC 8), C 4), 23=-70 (LC 8) C 1), 12=191 (LC 1), C 22), 15=-145 (LC 22), C 1), 22=145 (LC 21), C 1), 22=145 (LC 21), C 21), 20=189 (LC 21), C 21), 22=145 (LC 21), C 21), 22=145 (LC 21), C 21), 22=145 (LC 21), C 21), 22=145 (LC 22), C 1), 22=145 (LC 21), C 21), 22=145 (LC 21), C 21), 23=145 (LC 21), C 3), 27, 15=145 (LC 21), C 21), 23=145 (LC 21), C 3), 24=-47/60, 4-5=-28, 1/10, 7-8=-31/106, 8/47, 10-11=-35/28, i=-0/6 3/57, 21-22=-3/57, -3/57, 17-19=-3/57, -3/57, 14-15=-3/57, 150/70, 5-21=-144/69 i=-117/57, 11-14=-20; | 1) 1) 2) 1 or 3) (0, 4-0, 4-0, 4-0, 5) 6) 7) 8) 2), 9) 1, 12 LC 0, (69, 5/99 | Unbalanced i this design. Wind: ASCE Vasd=91mpr II; Exp C; En- cantilever leff right exposed Truss desigr only. For stu see Standard or consult qu All plates are Gable require Gable require Gable require Gable studs: This truss ha chord live loa * This truss ha chord and an All bearings a) Provide mect bearing plate 2, 46 lb uplift at joint 22, 70 44 lb uplift at joint 14 and 5) Beveled plate surface with fi) This truss is of International R802.10.2 ar | roof live loads have roof live loads have 7-16; Vult=115mpt ; TCDL=6.0psf; BC closed; MWFRS (e and right exposed ; Lumber DOL=1.6 the for wind loads in ds exposed to wind lindustry Gable Er alified building des 2x4 MT20 unless as continuous botto spaced at 2-0-0 oc s been designed for d nonconcurrent w as been designed n chord in all areas y 2-00-00 wide will y 2-00-00 wide will y 2-00-00 wide will y 2-00-00 wide will that joint 20, 44 lb up D buplift at joint 13 joint 16, 36 lb upliff at joint 20, 44 lb up D buplift at joint 13 joint 16, 36 lb upliff at or shim required to rouss chord at joint 1 a or shim required to standard Standard | e been of n (3-sec CDL=6.0 nvelope I; end v 50 plate in the pl d (norm nd Deta igner as otherwi orn a 10.0 vith any for a liv where fit betw SPF No (by oth no t at join 2. volume (by oth s) 2, 12 ance w sections dard AN | considered fo ond gust))psf; h=25ft; () exterior zor ertical left an grip DOL=1. ane of the tru ls as applicat s per ANSI/TF se indicated. d bearing.) psf bottom other live load e load of 20.0 a rectangle een the bottor of truss th 5 lb uplift at joint 1 t 15, 68 lb upl de full bearing. th the 2018 R502.11.1 a ISI/TPI 1. | r Cat. he; d 60 uss ble, PI 1. ds. opsf om o int uplift I7, lift at g nd | | | | STATE OF M STATE OF M SCOTT SEVI PE-20010 | H = 10% | |
| | | | | | | | | | | | | IVIC | y 0,2027 | |

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Page: 1

23-2-8

0-10-8

12 13

| Job | Truss | Truss Type | Qty | Ply | Lot 137 HM | |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B240103 | D2 | Common | 5 | 1 | Job Reference (optional) | 165312003 |

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Scale = 1:44.2

Plate Offsets (X, Y): [2:Edge,0-0-10], [6:Edge,0-0-10]

| Loading FCLL (roof) FCDL BCLL BCDL | (psf) 25.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC2018 | 3/TPI2014 | CSI TC BC WB Matrix-S | 0.47 0.69 0.19 | DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL) | in -0.12 -0.25 0.07 0.08 | (loc) 8-10 6-8 6 8-10 | l/defl >999 >999 n/a >999 | L/d 360 240 n/a 240 | PLATES MT20 Weight: 68 lb | GRIP 197/144 FT = 10% |
|---|---|--|---|---|---|---|--|--------------------------------------|-----------------------------------|---------------------------------------|---------------------------------|---------------------------------|------------------------------------|
| LUMBER FOP CHORE BOT CHORE WEBS BRACING FOP CHORE BOT CHORE | 2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 Structural wood sheat 3-7-2 oc purlins. Rigid ceiling directly bracing. | athing directly applie applied or 10-0-0 or | 6) 7) ed or c | Provide mec bearing plate 2 and 189 lb This truss is International R802.10.2 a | hanical connectior capable of withst uplift at joint 6. designed in accord Residential Code nd referenced star Standard | n (by oth anding 1 dance wi sections ndard AN | ers) of truss t 89 lb uplift at th the 2018 R502.11.1 a ISI/TPI 1. | to t joint and | | | | | |
| REACTIONS | 5 (size) 2=0-3-8, 6 Max Horiz 2=71 (LC Max Uplift 2=-189 (L' Max Grav 2=1063 (L | 5=0-3-8 8) C 4), 6=-189 (LC 5) .C 1), 6=1063 (LC 1) |) | | | | | | | | | | |
| ORCES | (lb) - Maximum Com Tension | pression/Maximum | | | | | | | | | | | |
| TOP CHORD | 1-2=0/6, 2-3=-2232/3 4-5=-1909/260_5-6= | 355, 3-4=-1909/259, -2232/355_6-7=0/6 | | | | | | | | | | | |
| BOT CHORD | 2-10=-333/2049, 8-1 6-8=-280/2049 | 0=-127/1406, | | | | | | | | | | | |
| VEBS | 4-8=-59/541, 5-8=-4 3-10=-418/221 | 18/221, 4-10=-58/54 | 11, | | | | | | | | | | |
| IOTES | | | | | | | | | | | | | |
| () Unhaland | ed roof live loads have | heen considered for | r | | | | | | | | | | |
| this desig | n. | | | | | | | | | | | Con | ADV |
| 2) Wind: AS Vasd=91 II; Exp C; cantileve | CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC ; Enclosed; MWFRS (en r left and right exposed | (3-second gust) DL=6.0psf; h=25ft; (ivelope) exterior zor ; end vertical left and plote grip DOL 10 | Cat. ne; d | | | | | | | | | STATE OF M | MISSOLA I M. ER |
| Ngni expo | s has been designed for | o plate grip DOL=1.t | 50 | | | | | | | | (U * | -1 | 1 * 8 |
| | | | | | | | | | | | VI() | | 0 1-19 |

- chord live load nonconcurrent with any other live loads.
 * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) All bearings are assumed to be SPF No.2 .

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E

May 3,2024

PE-200101880

SSIONAL

| Job | Truss | Truss Type | Qty | Ply | Lot 137 HM | |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B240103 | E1 | GABLE | 1 | 1 | Job Reference (optional) | 165312004 |

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Thu May 02 07:32:18 ID:vBszku21ozNPT?RIzYtJMSyXqDi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:51.4

Plate Offsets (X, Y): [10:0-2-0,Edge], [20:0-5-10,0-1-8], [35:0-5-10,0-1-8]

| | | | | | - | | | | | | | | | | |
|------------------------|-------------------------|--|--|---|--|---|---|---|--|---|--|---|--|--|-----------------------|
| Loading TCLL (roof) | | (psf) 25.0 | Spacing Plate Grip DOL | 2-0-0 1.15 | | CSI TC | 0.08 | DEFL Vert(LL) | in n/a | (loc) - | l/defl n/a | L/d 999 | PLATES MT20 | GRIP 197/144 | |
| TCDL | | 10.0 | Lumber DOL | 1.15 | | BC | 0.06 | Vert(CT) | n/a | - | n/a | 999 | | | |
| BCLL | | 0.0* | Rep Stress Incr | YES | | WB | 0.09 | Horz(CT) | 0.00 | 20 | n/a | n/a | | | |
| BCDL | | 10.0 | Code | IRC201 | 8/TPI2014 | Matrix-R | | | | | | | Weight: 115 lb | FT = 10% | |
| LUMBER TOP CHORD | 2x4 SPF | No.2 | • | т | OP CHORD | 2-35=-162/77, 3-4=-110/109, | 1-2=0/40, 2- 4-5=-102/10 | 3=-161/143, 0, 5-6=-89/10 | 00, | 8) Thi | s truss h ord live lo | as bee ad noi | en designed for a nconcurrent with | 10.0 psf bottom any other live load | ds. |
| BOT CHORD | 2x4 SPF I | No.2 | | | | 6-7=-76/125, 7 | /-8=-64/150, | 8-9=-54/184, | | 9) * T | his truss | has be | en designed for | a live load of 20.0 |)psf |
| WEBS | 2x4 SPF I | No.2 | | | | 9-10=-39/137, | 10-11=-35/1 | 33, 11-12=-3 | 4/165, | on | the botto | m cho | rd in all areas wh | ere a rectangle | |
| OTHERS | 2x4 SPF I | No.2 | | | | 12-13=-31/128 | 8, 13-14=-40/ | 103, | | 3-0 | 6-00 tall | by 2-0 | 0-00 wide will fit I | between the botto | om |
| BRACING | | | | | | 14-15=-49/79, | 15-16=-59/6 | 0, 16-17=-71 | /69, | cho | ord and a | iny oth | er members. | | |
| TOP CHORD | Structura | I wood shea | athing directly applie | d or | | 17-18=-129/94 | l, 18-19=0/40 | , 18-20=-136 | 5/43 | 10) All | bearings | are as | ssumed to be SP | - No.2 . | |
| | 6-0-0 oc p | purlins, exe | cept end verticals. | | | 04.05 00/404 | 00.04.00/ | 101 | | 11) Pro | ovide me | chanic | al connection (by | others) of truss to | 0 |
| BOT CHORD | Rigid ceili bracing. | ing directly | applied or 6-0-0 oc | В | OI CHORD | 34-35=-93/121 32-33=-93/121 | , 33-34=-93/ , 31-32=-93/ | 121, 121, 121 | | Dea 35, | 53 lb up | lift at jo | bint 20, 133 lb up | ift at joint 34, 28 l | bint Ib ioint |
| REACTIONS | (size) | 20=20-0-0 23=20-0-0 26=20-0-0 29=20-0-0 32=20-0-0 | 0, 21=20-0-0, 22=20- 0, 24=20-0-0, 25=20- 0, 27=20-0-0, 28=20- 0, 30=20-0-0, 31=20- 0, 33=20-0-0, 34=20- | 0-0, 0-0, 0-0, 0-0, 0-0, | | 30-31=-93/121 28-29=-93/121 26-27=-93/121 24-25=-93/121 22-23=-93/121 20-21=-93/121 | , 29-30=-93/ , 27-28=-93/ , 25-26=-93/ , 23-24=-93/ , 21-22=-93/ | 121, 121, 121, 121, 121, 121, | | upl 31, upl 24, Ib u 12) Thi | ift at joint 47 lb up ift at joint 50 lb up uplift at jo s truss is | t 33, 5 lift at jo t 26, 4 lift at jo pint 21. s desig | 1 lb uplift at joint 3 oint 30, 64 lb uplif 7 lb uplift at joint 2 oint 23, 31 lb uplif ned in accordanc | 12, 45 lb uplift at joint 29, 66 lb t at joint 29, 66 lb 25, 45 lb uplift at joint 22 and 1 t at joint 22 and 1 we with the 2018 | joint joint 120 |
| | Max Horiz | 35=20-0-0 | C 7) | W | /EBS | 3-34=-104/103 | 8, 4-33=-99/5 | 5, 5-32=-98/6 | 64, | Inte | ernationa | I Resid | dential Code sect | ions R502.11.1 ar | nd |
| | Max Linlift | 2053 (1 | (0.5) 21-120 (1 C 9) | | | 6-31=-98/62, 7 | -30=-98/63, | 8-29=-98/80, | | R8 | 02.10.2 a | and ref | erenced standard | I ANSI/TPI 1. | |
| | | 20= 33 (L 22=-31 (L | C(9), 21= 120 ($C(9)$) C(9), 23=-50 ($C(9)$) | , | | 9-28=-119/9, 1 | 1-27=-108/0 | 12-26=-101 | /82, | LOAD | CASE(S) |) Sta | ndard | | |
| | | 24=-45 (L | C 9), 25=-47 (LC 9), | | | 13-25=-98/63, | 14-24=-98/6 | 2, 15-23=-98 - | /64, | | | | | | |
| | | 26=-66 (L | C 9), 29=-64 (LC 8), | | | 16-22=-99/57, | 17-21=-94/9 | 5 | | | | | | | |
| | | 30=-47 (L | C 8), 31=-45 (LC 8), | N | OTES | | | | | | | | | | |
| | | 32=-51 (L | C 8), 33=-28 (LC 8), | 1) |) Unbalanced | roof live loads | have been c | onsidered fo | r | | | | | | |
| | | 34=-133 (| LC 8), 35=-96 (LC 4) | | this design. | | | | | | | | 000 | TO | |
| | Max Grav | 20=166 (L 22=127 (L 24=124 (L 26=128 (L 28=146 (L 30=125 (L 32=126 (L 34=158 (L | LC 15), 21=137 (LC 1 LC 22), 23=125 (LC 1 LC 16), 25=125 (LC 1 LC 16), 27=135 (LC 1 LC 16), 27=135 (LC 1 LC 18), 29=125 (LC 1 LC 15), 31=124 (LC 1 LC 15), 33=127 (LC 2 LC 15), 35=201 (LC 1 | 6), 2) 6), 6), 7), 5), 3) (1), 6) | Wind: ASCE Vasd=91mp II; Exp C; Er cantilever le right expose Truss desig only. For st see Standar | 7-16; Vult=11 h; TCDL=6.0ps hclosed; MWFF ft and right exp ed; Lumber DO gned for wind lo uds exposed to rd Industry Gab | 5mph (3-sec sf; BCDL=6.0 RS (envelope bosed ; end v L=1.60 plate bads in the plate b wind (normation ble End Detai | ond gust) psf; h=25ft; () exterior zor ertical left an grip DOL=1. ane of the tru al to the face Is as applical | Cat. ne; id 60 uss), ble, | | | R | STATE OF M SCOTT SEVI | AISSOLD M. ER | |
| FORCES | (lb) - Max | imum Com | pression/Maximum | 41 | or consult q | ualified building | designer as | per ANSI/TI | 1. וי | | | 33 | NUM | SER /S | В |
| | Tension | | | 4) | All plates ar | e 2x4 IVI I 20 UN | hottom char | t hooring | | | | N | ON PE-2001 | J18807 / 5 4 | 7 |
| | | | | 5) | Truss to bo | fully sheathed | from one face | a peaning. | | | | N | The last | 12A | |
| | | | | 6) | hraced agai | nst lateral mov | ement (ie di | adonal web) | | | | ۲ | A Ser | NON | |
| | | | | 7) |) Gable studs | spaced at 1-4- | -0 oc. | agonai web) | • | | | | ONA | LEL | |
| | | | | | | | | | | | | | | | |

7) Gable studs spaced at 1-4-0 oc.

May 3,2024

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ΓΙΟΝ IEW DEVELOPMENT SERVICES LEE'S' SUMMIT'S MISSOURI 05/24/2024 2:42:16

| Job | Truss | Truss Type | Qty | Ply | Lot 137 HM | |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B240103 | E2 | Common | 3 | 1 | Job Reference (optional) | 165312005 |

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Thu May 02 07:32:18

Wheeler Lumber, Waverly, KS - 66871,



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

Scale = 1:52.1

| RIP 37/144 「 = 10% |
|---------------------------------|
| [= 10% |
| = 10% |
| Γ = 10% |
| 1 = 10% |
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- right exposed; Lumber DOL=1.60 plate grip DOL=1.60 This truss has been designed for a 10.0 psf bottom 3)
- chord live load nonconcurrent with any other live loads. 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) All bearings are assumed to be SPF No.2 .

May 3,2024

NUMBER

PE-200101880'

SSIONAL

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| Job | Truss | Truss Type | Qty | Ply | Lot 137 HM | |
|---------|-------|---------------------|-----|-----|--------------------------|-----------|
| B240103 | E3 | Roof Special Girder | 1 | 3 | Job Reference (optional) | 165312006 |

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Thu May 02 07:32:18 ID:vBszku21ozNPT?RIzYtJMSyXqDi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



4x10 u

| 2-7-6 | 4-6-0 | 8-6-0 | 14-9-0 | 20-0-0 |
|-------|---------|-------|--------|--------|
| 2-7-6 | 1-10-10 | 4-0-0 | 6-3-0 | 5-3-0 |

| Plate Offsets | (X, Y): [1:Edge,0-2-3], | [7:Edge,0-2-3], [8:0 | -4-0,0-5-4] | , [10:0-3-8,0-3 | -0], [11:0-5-8,0-5 | 5-0], [12:E | dge,0-3-8], [1 | 13:0-3-8,0 |)-2-0] | | | | |
|---|--|---|--|---|--|---|--|--|---------------------------------|--|---|---|---|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 25.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 NO IRC2018 | 8/TPI2014 | CSI TC BC WB Matrix-S | 0.67 0.62 0.59 | DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL) | in -0.11 -0.20 0.08 0.07 | (loc) 8-9 8-9 7 8-9 | l/defl >999 >999 n/a >999 | L/d 360 240 n/a 240 | PLATES MT20 Weight: 410 lb | GRIP 197/144 FT = 10% |
| LUMBER TOP CHORD BOT CHORD WEBS WEDGE BRACING TOP CHORD BOT CHORD REACTIONS | 2x4 SPF No.2 2x8 SP 2400F 2.0E SPF No.2 2x4 SPF No.2 Lett: 2x3 SPF No.2 Right: 2x3 SPF No.2 Structural wood shea 5-11-1 oc purlins. Rigid ceiling directly bracing. (size) 1=0-3-8, 7 Max Horiz 1=183 (LC Max Uplift 1=-675 (L Max Grav 1=6998 (L | *Except* 12-3,4-9:2: athing directly applied applied or 10-0-0 or 7=0-3-8 C 7) C 8), 7=-730 (LC 9). C 1), 7=6990 (LC 1) | 2) x4 3) 4) ed or c 5) 6) | All loads are except if not CASE(S) se provided to o unless other Unbalanced this design. Wind: ASCE Vasd=91mpl II; Exp C; En cantilever lef right expose This truss h chord live lot * This truss h on the bottoo | considered equa ed as front (F) or ction. Ply to ply o distribute only loa wise indicated. roof live loads h 7-16; Vult=115r h; TCDL=6.0psf; closed; MWFRS ft and right expos d; Lumber DOL= as been designer ad nonconcurren has been designer m chord in all are | ally applie back (B) connection ads noted ave been nph (3-sec BCDL=6. (envelop sed; end v -1.60 plate d for a 10. t with any ed for a liv as where wall the box | d to all plies, face in the Lt s have been as (F) or (B), considered for cond gust) 0psf; h=25ft; e) exterior zo vertical left ar o grip DOL=1 o psf bottom other live loa re load of 20. a rectangle | OAD or Cat. one; nd .60 ads. 0psf | Ur | hiform Le Vert: 1- oncentra Vert: 14 17=-136 (F), 21= | bads (II 5=-70, tted Lo3 =-1353 63 (F), ⊧-1353 | b/ft) 5-7=-70, 1-12=- ads (lb) 3 (F), 15=-1358 18=-1361 (F), 1! (F), 22=-1353 (F | 20, 10-11=-20, 7-9=-20 (F), 16=-1363 (F), 9=-1358 (F), 20=-1353 ⁻) |
| FORCES | (lb) - Maximum Com | pression/Maximum | , | chord and a | ny other member | S. | | lom | | | | | |
| TOP CHORD | 1-2=-9573/901, 2-3= 3-4=-8592/845, 4-5= 5-6=-9344/1062 6-7 | 12949/1261, 8312/914, '=-9716/925 | 7) 8) | All bearings Provide med bearing plate | are assumed to chanical connecti e capable of with | be SP 240 on (by oth standing 6 | ors) of truss 675 lb uplift a | to It joint | | | | | |
| BOT CHORD | 1-13=-758/7239, 12- 11-12=-84/1825, 3-1 10-11=-1091/10900, 4-10=-87/294, 8-9=- | -13=-104/1036, 1=-381/4198, 9-10=-10/1684, 52/1161, 7-8=-674/7 | 9) 7688 10 | This truss is International R802.10.2 a) Hanger(s) or | designed in acco Residential Cod nd referenced st r other connectio | ordance w le sections andard AN n device(s | ith the 2018 8 R502.11.1 a NSI/TPI 1. 6) shall be | and | | | | STOF | MISS |
| WEBS | 3-10=-4328/529, 8-1 5-10=-688/6279, 5-8 6-8=-133/590, 2-13= 11-13=-754/7155, 2- | 0=-416/4527, =-577/3885, -3313/360, -11=-364/4181 | | provided suf lb down and up at 4-0-0, lb down and | ficient to support 182 lb up at 2-0 1363 lb down ar 195 lb up at 8-0 | concentra)-0, 1358 nd 195 lb u)-0, 1361 | ated load(s) 1 b down and 2 up at 6-0-0, b down and 2 | 1353 28 lb 1363 28 lb | | | | STATE SCOT | T M. TER |
| NOTES 1) 3-ply trust (0.131"x3 Top chore | s to be connected toget ") nails as follows: ds connected as follows | ther with 10d s: 2x4 - 1 row at 0-6- | -0 | up at 10-0-0 1353 lb down down and 18 182 lb up at selection of s |), 1358 lb down a n and 182 lb up a 32 lb up at 16-0- 18-0-0 on bottor such connection | and 28 lb u at 14-0-0, 0, and 13 m chord. device(s) | up at 12-0-0, and 1353 lb 53 lb down at The design/ is the | , nd | | ہ ہر | B | PE-2001 | BER 1018807 |

Bottom chords connected as follows: 2x8 - 3 rows staggered at 0-4-0 oc, 2x4 - 1 row at 0-9-0 oc. Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

ion device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

May 3,2024

E

SIONAL

 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
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| Job | Truss | Truss Type | Qty | Ply | Lot 137 HM | |
|---------|-------|-------------------------------|-----|-----|--------------------------|-----------|
| B240103 | G1 | Roof Special Structural Gable | 1 | 1 | Job Reference (optional) | 165312007 |

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Thu May 02 07:32:18 ID:vBszku21ozNPT?RIzYtJMSyXqDi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



| 0-3-8 | 3-3-8 | 9-8-8 | 12-8-8 | 13-0-0 |
|-------|-------|-------|--------|--------|
| 0-3-8 | 3-0-0 | 6-5-0 | 3-0-0 | 0-3-8 |

Scale = 1:41.2

Plate Offsets (X, Y): [8:0-5-7,Edge], [11:0-2-3,Edge], [14:0-1-14,0-1-0], [23:0-1-14,0-1-0]

| Loading TCLL (roof) TCDL BCLL | (psf) 25.0 10.0 0.0* | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr | 2-0-0 1.15 1.15 YES | | CSI TC BC WB | 0.73 0.50 0.13 | DEFL Vert(LL) Vert(CT) Horz(CT) | in -0.10 -0.23 0.09 | (loc) 9-10 9-10 8 | l/defl >999 >641 n/a | L/d 360 240 n/a | PLATES MT20 | GRIP 197/144 |
|--|--|--|------------------------------|--|---|--|---|------------------------------|----------------------------|-------------------------------|--------------------------|----------------|------------------------|
| LUMBER TOP CHORD BOT CHORD WEBS OTHERS | 10.0 2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 *Exce 2400F 2.0E 2x4 SPF No.2 | Code pt* 11-2,8-6:2x8 SP | 6) 7) 8) | Gable studs s This truss ha chord live loa * This truss h on the botton 3-06-00 tall b | Matrix-S spaced at 1-4-0 oc s been designed fo d nonconcurrent w as been designed n chord in all areas y 2-00-00 wide will y other members | c. or a 10.0 vith any for a liv s where Il fit betv |) psf bottom other live loa e load of 20.0 a rectangle ween the botto | 0.05 Ids. Opsf om | 9-10 | >999 | 240 | vveignt: 64 lb | FT = 10% |
| BRACING TOP CHORD BOT CHORD REACTIONS | Structural wood shea 4-5-15 oc purlins, ex Rigid ceiling directly bracing. (size) 8=0-3-8, 1 Max Horiz 11=155 (L Max Uplift 8=-89 (LC Max Gray, 8=640.0 | athing directly applie ccept end verticals. applied or 10-0-0 oc 1=0-3-8 C 7) 9), 11=-89 (LC 8) 21, 11=640 (I C 1) | d or 9) 10) 11) 12) | All bearings a Bearing at joi using ANSI/T designer sho Provide mecl bearing plate 11 and 89 lb This truss is o | are assumed to be int(s) 11, 8 conside PI 1 angle to grain uld verify capacity nanical connection capable of withsta uplift at joint 8. designed in accord | SPF No ers para of formula of beari (by oth anding 8 dance w | 0.2. Illel to grain va a. Building ing surface. ers) of truss t 9 lb uplift at j ith the 2018 | alue to oint | | | | | |
| FORCES | (lb) - Maximum Com Tension | pression/Maximum | | R802.10.2 ar | Residential Code s nd referenced stan | dard AN | ISI/TPI 1. | ind | | | | | |
| TOP CHORD | 1-2=0/46, 2-3=-934/ ² 4-5=-816/188, 5-6=-5 2-11=-773/127, 6-8= | 109, 3-4=-816/224, 934/67, 6-7=0/46, -773/99 | LUA | AD CASE(S) | Stanuard | | | | | | | | |
| BOT CHORD WEBS | 10-11=-91/750, 9-10 5-9=-74/167, 4-9=-13 4-10=-155/437 | =0/443, 8-9=0/687 33/395, 3-10=-67/15 | 7, | | | | | | | | | | T |
| NOTES 1) Unbalance this design 2) Wind: ASC Vasd=91n | ed roof live loads have n. CE 7-16; Vult=115mph nph; TCDL=6.0psf; BCI | been considered for (3-second gust) DL=6.0psf; h=25ft; C | at. | | | | | | | | | STATE OF M | AISSOLAT |

II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

Truss designed for wind loads in the plane of the truss 3) only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- All plates are 2x4 MT20 unless otherwise indicated. Truss to be fully sheathed from one face or securely 4)
- 5) braced against lateral movement (i.e. diagonal web).

SIONAL

NUMB

PE-2001018807

 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
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TION DEVELORMENTOSERVICES LEE'S'SUMMIT'SMISSOURI 05/24/2024 2:42:16

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May 3,2024

| Job | Truss | Truss Type | Qty | Ply | Lot 137 HM | |
|---------|-------|--------------|-----|-----|--------------------------|-----------|
| B240103 | G2 | Roof Special | 1 | 1 | Job Reference (optional) | 165312008 |

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Thu May 02 07:32:18 ID:vBszku21ozNPT?RIzYtJMSyXqDi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



| 0. | 3 | ·8 | 3-0-0 | | 6-5-0 | | 3-0-0 | 0-3 | 7 3-8 |
|----|---|----|-------|--|-------|--|-------|-----|----------|
| Ũ | ~ | • | | | | | | | |

Scale = 1:41.2 Þ

| Plate Offsets (X, Y): | [8:0-5-7,Edge], [11:0-2-3,Edge] | |
|-----------------------|---------------------------------|---|
| | | - |

| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 25.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC2018/ | TPI2014 | CSI TC BC WB Matrix-S | 0.73 0.50 0.13 | DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL) | in -0.10 -0.23 0.09 0.05 | (loc) 9-10 9-10 8 9-10 | l/defl >999 >641 n/a >999 | L/d 360 240 n/a 240 | PLATES MT20 Weight: 50 lb | GRIP 197/144 FT = 10% |
|--|--|--|--|--|---|--|---|--------------------------------------|------------------------------------|---------------------------------------|---------------------------------|---------------------------------|------------------------------------|
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD | 2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 *Exc 2400F 2.0E Structural wood sh 4-5-15 oc purlins, Rigid ceiling directl | ept* 11-2,8-6:2x8 SP pathing directly applie except end verticals. y applied or 10-0-0 oc | 6) 7) ed or 8) | Bearing at jo using ANSI/T designer sho Provide mecl bearing plate 11 and 89 lb This truss is International R802.10.2 ar | int(s) 11, 8 conside PI 1 angle to grain uld verify capacity hanical connection capable of withsta uplift at joint 8. designed in accord Residential Code stan Capada | ers para of formula of beari (by oth anding 8 dance w sections idard AN | llel to grain v a. Building ng surface. ers) of truss 9 lb uplift at ith the 2018 R502.11.1 a ISI/TPI 1. | alue to joint and | | | | | |
| REACTIONS | bracing. (size) 8=0-3-8, Max Horiz 11=155 Max Uplift 8=-89 (L Max Grav 8=640 (J | 11=0-3-8 LC 7) C 9), 11=-89 (LC 8) C 1) 11=640 (LC 1) | LOA | AD CASE(S) | Standard | | | | | | | | |
| FORCES | (lb) - Maximum Con | npression/Maximum | | | | | | | | | | | |
| TOP CHORD | 1-2=0/46, 2-3=-934 4-5=-816/188, 5-6= 2-11=-773/127, 6-8 | /109, 3-4=-816/224, -934/67, 6-7=0/46, =-773/99 | | | | | | | | | | | |
| BOT CHORD WEBS | 10-11=-91/750, 9-1 4-9=-133/395, 5-9= 3-10=-67/157 | 0=0/443, 8-9=0/687 -74/167, 4-10=-155/4 | 37, | | | | | | | | | | |
| NOTES 1) Unbalance this design 2) Wind: ASC Vasd=91n II; Exp C; captilevor | ed roof live loads hav n. CE 7-16; Vult=115mp nph; TCDL=6.0psf; Br Enclosed; MWFRS (6 | e been considered for n (3-second gust) CDL=6.0psf; h=25ft; C nvelope) exterior zon | Cat. e; | | | | | | | | | STATE OF M | MISSOLITE M. ER |

- cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 4) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 . 5)



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May 3,2024

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SIONAL

PE-200101880

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| Job | Truss | Truss Type | Qty | Ply | Lot 137 HM | |
|---------|-------|--------------|-----|-----|--------------------------|-----------|
| B240103 | G3 | Roof Special | 4 | 1 | Job Reference (optional) | 165312009 |

Run: 8,73 S Apr 25 2024 Print: 8,730 S Apr 25 2024 MiTek Industries, Inc. Thu May 02 07:32:19 ID:vBszku21ozNPT?RIzYtJMSyXqDi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale - 1.40

| Loading | (psf) | Spacing | 2-0-0 | | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--|---|--|--------------------|--|---|--|--|--------------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | | тс | 0.52 | Vert(LL) | -0.11 | 7-8 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | | BC | 0.64 | Vert(CT) | -0.27 | 7-8 | >548 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | | WB | 0.14 | Horz(CT) | 0.11 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC201 | 3/TPI2014 | Matrix-S | | Wind(LL) | 0.07 | 7-8 | >999 | 240 | Weight: 47 lb | FT = 10% |
| L UMBER TOP CHORD BOT CHORD WEBS | 2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 *Exce 2.0E, 6-5:2x6 SPF N | pt* 9-1:2x8 SP 2400 lo.2 | 7) F 8) | Bearing at jo using ANSI/ designer sho Provide meo bearing plate | bint(s) 6 conside TPI 1 angle to g buld verify capa chanical connect at joint(s) 6. | ers parallel t grain formula city of beari tion (by oth | o grain value a. Building ng surface. ers) of truss f | e to | | | | | |
| BRACING TOP CHORD BOT CHORD | Structural wood shea 5-2-13 oc purlins, e: Rigid ceiling directly bracing. | athing directly applie xcept end verticals. applied or 10-0-0 oc | 9) d or ; 10 | bearing plate 6 and 61 lb) This truss is International | e capable of wit uplift at joint 9. designed in ac Residential Co | cordance w | 1 lb uplift at j th the 2018 R502.11.1 a | joint and | | | | | |

- **REACTIONS** (size) 6=0-2-0, 9= Mechanical Max Horiz 9=135 (LC 5) Max Uplift 6=-61 (LC 9), 9=-61 (LC 8) Max Grav 6=555 (LC 1), 9=555 (LC 1) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-938/118, 2-3=-842/235, 3-4=-826/206, 4-5=-925/85, 1-9=-670/103, 5-6=-663/81
- BOT CHORD 8-9=-115/744, 7-8=-12/436, 6-7=-38/688 WEBS 3-7=-144/401, 4-7=-99/165, 3-8=-164/454, 2-8=-101/159

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 This truss has been designed for a 10.0 psf bottom
- 3) chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 5)
- 6) Refer to girder(s) for truss to truss connections.

R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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Page: 1

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| Job | Truss | Truss Type | Qty | Ply | Lot 137 HM | |
|---------|-------|------------------------|-----|-----|--------------------------|-----------|
| B240103 | H1 | Common Supported Gable | 2 | 1 | Job Reference (optional) | 165312010 |

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Thu May 02 07:32:19 ID:vBszku21ozNPT?RIzYtJMSyXqDi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



| Scale | = | 1:57.2 |
|-------|---|--------|
| | | |

| Loading TCLL (roof) TCDL BCLL BCDL | | (psf) 25.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC20 | 18/TPI2014 | CSI TC BC WB Matrix-R | 0.07 0.05 0.19 | DEFL Vert(LL) Vert(CT) Horz(CT) | in n/a n/a 0.01 | (loc) - - 19 | l/defl n/a n/a n/a | L/d 999 999 n/a | PLATES MT20 Weight: 147 lb | GRIP 197/144 FT = 10% | |
|--|---|---|--|--|---|---|--|---|---|---|---|---|---|---|--|
| LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS | 2x4 SPF No 2x4 SPF No 2x4 SPF No 2x4 SPF No Structural w 6-0-0 oc pur Rigid ceiling bracing. (size) 1! 2: 2: 2: 2: 3: 3: Max Horiz 3: Max Uplift 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2 | 0.2 0.2 0.2 *Excep 0.2 2 ood shear 1010, excep 9=31-0-0 2=31-0 2=51 (LC 2=51 | bt* 18-19:2x3 SPF I thing directly applie tept end verticals. applied or 10-0-0 or , 20=31-0-0, 21=31 , 23=31-0-0, 24=31 , 30=31-0-0, 24=31 , 30=31-0-0, 31=31 , 33=31-0-0, 34=31 , 36=31-0-0 C 8) C 9), 21=-48 (LC 9), C 9), 22=-57 (LC 9), C 9), 22=-57 (LC 8) C 9), 29=-52 (LC 8) | -0-0, -0-0, -0-0, -0-0, -0-0, -0-0, -0-0, -0, | TOP CHORD | $\begin{array}{c} 2\text{-36}{=}-134/43, 1\\ 3\text{-4}{=}-119/75, 4\text{-}{\mathbb 5}\\ 6\text{-7}{=}-56/144, 7\text{-}{\mathbb 5}\\ 9\text{-10}{=}-41/219, 11\\ 12\text{-}13\text{-}-39/122, 15\text{-}16\text{-}52/45, 11\\ 18\text{-}19\text{-}62/0\\ 35\text{-}36\text{-}25/103, 33\text{-}34\text{-}25/103, 33\text{-}34\text{-}25/103, 26\text{-}28\text{-}25/103, 20\text{-}25/103, 26\text{-}28\text{-}25/103, 26\text{-}28\text{-}25/103, 26\text{-}28\text{-}25/103, 26\text{-}28\text{-}25/103, 26\text{-}28\text{-}25/103, 20\text{-}21\text{-}25/103, 20\text{-}21\text{-}25/103, 20\text{-}21\text{-}25/103, 10\text{-}28\text{-}161/0, 9\\ 7\text{-}31\text{-}140/78, 6\\ 4\text{-}34\text{-}147/75, 3\\ 11\text{-}26\text{-}150/75, 13\text{-}24\text{-}140/77, 15\text{-}22\text{-}139/78, 17\text{-}20\text{-}129/93\\ \end{array}$ | | 3=-171/69, -6=-66/118, 8-9=-38/196, 11, 11-12=-3 97, 14-15=-3 7, 17-18=-12 103, 103, 103, 103, 103, 103, 103, 103, | /8/167, /8/71, /1/31, //80, //79, | 8) This cho 9) * Th on t 3-00 cho 10) All t 11) Prov bea 36, uplit 24, uplit 24, uplit 12) This Inte R80 LOAD C | truss h rd live lo is truss he botto -00 tall rd and a eearings vide mee tring plat 52 lb up t at joint 46 lb up t at joint 54 lb up t at joint 54 lb up t at joint 54 lb up t at joint 55 lb up 55 lb up t at joint 55 lb up t at | as bee ad nor has be m choi by 2-00 ny otho y 2-00 ny otho are as chanica: | n designed for a neconcurrent with een designed for rd in all areas wh 0-00 wide will fit er members. ssumed to be SP al connection (by ble of withstandi oint 29, 56 lb upli 4 lb uplift at joint oint 34, 106 lb up 7 lb uplift at joint oint 23, 56 lb upli d 94 lb uplift at joint oned in accordand dential Code sec erenced standar ndard | 10.0 psf bottom any other live load a live load of 20.0 ere a rectangle between the bottor F No.2. others) of truss to ng 43 lb uplift at jo ft at joint 30, 54 lb 32, 56 lb uplift at jo fift at joint 35, 51 ll 25, 54 lb uplift at jc ft at joint 22, 48 lb joint 20. we with the 2018 jons R502.11.1 ar d ANSI/TPI 1. | Is. psf m pint oint b oint |
| FORCES | $\begin{array}{c} 30 = -36 \ (LC \ 8), \ 31 = -54 \ (LC \ 8), \ 33 = -56 \ (LC \ 8), \ 33 = -56 \ (LC \ 8), \ 33 = -56 \ (LC \ 8), \ 34 = -46 \ (LC \ 8), \ 35 = -106 \ (LC \ 8), \ 36 = -43 \ (LC \ 18), \ 20 = 167 \ (LC \ 22), \ 21 = 183 \ (LC \ 11), \ 22 = 179 \ (LC \ 12), \ 22 = 179 \ (LC \ 1), \ 22 = 179 \ (LC \ 1), \ 22 = 179 \ (LC \ 1), \ 25 = 179 \ (LC \ 1), \ 25 = 179 \ (LC \ 1), \ 25 = 179 \ (LC \ 1), \ 31 = 180 \ (LC \ 21), \ 32 = 181 \ (LC \ 1), \ 33 = 178 \ (LC \ 21), \ 32 = 181 \ (LC \ 1), \ 33 = 178 \ (LC \ 21), \ 32 = 181 \ (LC \ 1), \ 33 = 178 \ (LC \ 21), \ 32 = 181 \ (LC \ 1), \ 35 = 133 \ (LC \ 15), \ 36 = 161 \ (LC \ 17) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$ | | | | NOTES 1) Unbalance this design 2) Wind: ASC Vasd=91m II; Exp C; E cantilever I right expos 3) Truss desi only. For s see Standa or consult (4) All plates a 5) Gable requ 6) Truss to be braced aga 7) Gable stud | d roof live loads h F 7-16; Vult=115r ph; TCDL=6.0psf; inclosed; MWFRS eft and right expo ed; Lumber DOL= gned for wind loa tuds exposed to v ard Industry Gable qualified building or re 2x4 MT20 unle ires continuous b fully sheathed fro inst lateral mover s spaced at 2-0-0 | ave been of mph (3-sec ; BCDL=6.0 S (envelope sed ; end v =1.60 plate ds in the pl wind (norm e End Deta designer as designer as designer as therwith ottom chor orm one fac ment (i.e. d | considered fo ond gust) Dpsf; h=25ft; (e) exterior zor rertical left an grip DOL=1. ane of the tru al to the face ils as applical s per ANSI/TT se indicated. d bearing. e or securely iagonal web) | r Cat. ne; d 60 Jss), ble, PI 1. | | | | STE OF J SCOT SEV OF DE-2001 | MISSOLIE FM. ER 018807 | and i |

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May 3,2024

Page: 1

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| Job | Truss | Truss Type | Qty | Ply | Lot 137 HM | |
|---------|-------|--------------|-----|-----|--------------------------|-----------|
| B240103 | H2 | Roof Special | 1 | 1 | Job Reference (optional) | l65312011 |

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Thu May 02 07:32:19 Page: 1 ID:vBszku21ozNPT?RIzYtJMSyXqDi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f -0-10-8 0-10-8 7-9-10 23-2-7 31-0-0 15-6-0 18-10-4 7-9-10 7-8-6 3-4-4 4-4-3 7-9-9 6x6= 4 4x8 👟 5 12 61 3x4 🚅 3x6**≈**



| | | | 5x12= | | | |
|----------------|--------|--------|--------|--------|--------|---|
| 1 | 7-9-10 | 15-6-0 | 18-9-0 | 23-2-7 | 31-0-0 | |
| Г | 7-9-10 | 7-8-6 | 3-3-0 | 4-5-7 | 7-9-9 | 7 |
| Scale = 1:60.8 | | | | | | |

Plate Offsets (X, Y): [7:0-3-4,0-2-0], [15:0-3-4,0-6-8]

| Loading | (psf) | Spacing | 2-0-0 | | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|--------------------------------------|-------------------------------------|-------------|----------------|------------------------|------------|------------------------------|-------------|-------|--------|-----|-------------------|----------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | | тс | 0.57 | Vert(LL) | -0.21 | 11-12 | >999 | 360 | MT20 | 197/144 | |
| TCDL | 10.0 | Lumber DOL | 1.15 | | BC | 0.77 | Vert(CT) | -0.39 | 13-14 | >932 | 240 | | | |
| BCLL | 0.0* | Rep Stress Incr | YES | | WB | 0.80 | Horz(CT) | 0.22 | 8 | n/a | n/a | | | |
| BCDL | 10.0 | Code | IRC2018 | 3/TPI2014 | Matrix-S | | Wind(LL) | 0.13 | 11-12 | >999 | 240 | Weight: 131 lb | FT = 10% | |
| | | | | | | | | | | | | 0 | | |
| LUMBER | | | 4) | This truss ha | s been designed fo | or a 10.0 |) psf bottom | | | | | | | |
| TOP CHORD | 2x4 SPF 2100F 1.8 | 3E | | chord live loa | ad nonconcurrent w | vith any | other live loa | ids. | | | | | | |
| BOT CHORD | 2x4 SPF No.2 *Exc | cept* 13-4,5-10:2x3 S | PF 5) | * This truss h | as been designed | for a liv | e load of 20.0 | Opsf | | | | | | |
| | No.2 | | | on the bottor | n chord in all areas | where | a rectangle | | | | | | | |
| WEBS | 2x3 SPF No.2 *Exc | cept* 15-2,8-7:2x6 SP | F | 3-06-00 tall b | y 2-00-00 wide wil | I fit betv | veen the botto | om | | | | | | |
| | No.2 | | 2 | chord and ar | ly other members. | | | | | | | | | |
| BRACING | | | 6) | All bearings | are assumed to be | SPF No | 5.2. | | | | | | | |
| TOP CHORD | Structural wood sh | eathing directly applie | ed or 7) | Refer to gird | er(s) for truss to tru | iss conr | ections. | - | | | | | | |
| | 3-10-5 oc purlins, | except end verticals. | 8) | Provide med | nanical connection | (by oth | ers) of truss t | 0 Lioint | | | | | | |
| BOT CHORD | Rigid ceiling direct | ly applied or 10-0-0 or | 2 | 15 and 170 | capable of Withsta | anuing 1 | so in ublitt at | joint | | | | | | |
| | bracing. | | 0) | This truce is | designed in accord | | ith the 2019 | | | | | | | |
| REACTIONS | (size) 8= Mech | nanical, 15=0-3-8 | 9) | International | Residential Code | ance W | 01 010 2018 0 0502 11 1 2 | nd | | | | | | |
| | Max Horiz 15=138 | (LC 12) | | R802 10 2 a | d referenced stan | dard AN | ISI/TPI 1 | inu | | | | | | |
| | Max Uplift 8=-170 | (LC 9), 15=-196 (LC 8 |) | | Stondard | | 1 01/1111. | | | | | | | |
| | Max Grav 8=1373 | (LC 1), 15=1453 (LC | 1) LC | AD CASE(S) | Sidiluaru | | | | | | | | | |
| FORCES | (lb) - Maximum Co | mpression/Maximum | | | | | | | | | | | | |
| | Tension | | | | | | | | | | | | | |
| TOP CHORD | 1-2=0/35, 2-3=-228 | 35/274, 3-4=-2473/27 ⁻ | 1, | | | | | | | | | | | |
| | 4-5=-2321/300, 5-6 | 6=-3447/307, | | | | | | | | | | | | |
| | 6-7=-2258/269, 2-1 | 15=-1381/236, | | | | | | | | | | | | |
| | 7-8=-1293/213 | | | | | | | | | | | | | |
| BOT CHORD | 14-15=-325/810, 1 | 3-14=0/25, 12-13=0/1 | 28, | | | | | | | | | | | |
| | 4-12=-111/1663, 1 | 1-12=-136/2998, | _ | | | | | | | | | | TT. | |
| | 10-11=0/52, 5-11= | -103/1249, 9-10=-3/17 | ί, | | | | | | | | | OF N | ALC AL | |
| | 8-9=-148/68/ | 4.4 205/2002 | | | | | | | | | | FEURM | NSS N | |
| WEB2 | 3-14=-005/214, 12 | -14=-305/2063, 2- 1219/100 | | | | | | | | | A | | 1.2% | |
| | 3-12=-00/300, 5-12 | 2=-1310/199, 1145/1112 | | | | | | | | | H | SCOTT | M | λ |
| | 5-11=-100/2007, 0 6-0-101/107 2-1 | -11=-40/1110, 1/_0/1130_7_060/11 | 222 | | | | | | | | H. | SEVI | FR | X |
| NOTES | 0.0=-101+/10/,2= | | 202 | | | | | | | | 84 | | ···· \. | - YA |
| | ad reaf live leads to | a haan aanaldar- I f- | | | | | | | | | 20 | | 0 12 | 1 |
| this design | eu looi live loads hav | e been considered for | | | | | | | | | W. | LAK . | J. O.K. | |
| | ∩E 7-16· \/ult–115mn | b (3-second quet) | | | | | | | | / | W. | NOM | Res VA | |
| Vaed-01n | D = 10, $V = 10$ | CDI -6 Opef: b-25ft: (| ` at | | | | | | | | N | >> PE-20010 | 18807 | A |
| II: Exp C: | Enclosed: MWERS (| envelope) exterior zor |)al. | | | | | | | | N | The second second | 124 | 7 |
| cantilever | left and right expose | d : end vertical left an | d | | | | | | | | X | NºSo. | O'H | () () |
| right expo | sed: Lumber DOI =1 | 60 plate arip DOI = 1.6 | 50 | | | | | | | | | UNA ONA | LEFA | |
| ngin expo | | So plate grip DOL-1. | | | | | | | | | | The state | - 0 | |

right exposed; Lumber DOL=1.60 plate grip DOL=1.60 The Fabrication Tolerance at joint 2 = 6%3)

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| Job | Truss | Truss Type | Qty | Ply | Lot 137 HM | |
|---------|-------|--------------|-----|-----|--------------------------|-----------|
| B240103 | H3 | Roof Special | 2 | 1 | Job Reference (optional) | 165312012 |

1)

2)

3)



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| Job | Truss | Truss Type | Qty | Ply | Lot 137 HM | |
|---------|-------|--------------|-----|-----|--------------------------|-----------|
| B240103 | H5 | Roof Special | 1 | 1 | lob Reference (optional) | 165312014 |

1)

2)



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| Job | Truss | Truss Type | Qty | Ply | Lot 137 HM | |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B240103 | H6 | Common | 4 | 1 | Job Reference (optional) | 165312015 |

Run: 8,73 S Apr 25 2024 Print: 8,730 S Apr 25 2024 MiTek Industries, Inc. Thu May 02 07:32:19







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

6-8=-65/1333

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 2) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

OF MISS SCOTT M. SEVIER PE-2001018807 SIONAL E

May 3,2024

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| Job | Truss | Truss Type | Qty | Ply | Lot 137 HM | |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B240103 | H7 | Common | 3 | 1 | Job Reference (optional) | 165312016 |

8-6-3

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Thu May 02 07:32:19 Page: 1 ID:vBszku21ozNPT?RIzYtJMSyXqDi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f -0-10-8 0-10-8 31-10-8 7-9-10 15-6-0 23-2-6 31-0-0 7-9-10 7-8-6 7-8-6 7-9-10 0-10-8 4x8= 4 12 61 3x4 👟 3x4 🖌 3 5 8-5-0 6 -8-0 Y 8 ГЪП Ø 10 9 12 11 6x12= 6x12= 3x6= 3x10= 3x6= 3x6= 7-9-10 15-6-0 23-2-6 31-0-0 7-9-10 7-8-6 7-8-6 7-9-10 Scale = 1:58.3 Plate Offsets (X, Y): [8:Edge,0-4-13], [9:0-2-8,0-1-8], [12:0-2-8,0-1-8], [13:Edge,0-4-13]

| | | e c | | | | | | | | | | | |
|--|---|--|---------------------------------|---|--|---|--|--------------------------------------|-------|--------|-----|----------------|-------------|
| Loading | (psf) | Spacing | 2-0-0 | | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | | TC | 0.81 | Vert(LL) | -0.11 | 9-11 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | | BC | 0.62 | Vert(CT) | -0.24 | 9-11 | >999 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | | WB | 0.53 | Horz(CT) | 0.07 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC20 | 18/TPI2014 | Matrix-S | | Wind(LL) | 0.07 | 11-12 | >999 | 240 | Weight: 117 lb | FT = 10% |
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS | 2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 *Exce No.2 Structural wood she except end verticals Rigid ceiling directly bracing. 1 Row at midpt (size) 8=0-3-8, 1 Max Horiz 13=-128 (| pt* 13-2,8-6:2x6 SPI athing directly applie applied or 10-0-0 oc 5-11, 3-11 13=0-3-8 | 4 F 5 6 d, ; 7 L | This truss h on the botton 3-06-00 tall b chord and ar All bearings Provide mech bearing plate 13 and 196 ll This truss is International R802.10.2 ar | as been designed n chord in all area by 2-00-00 wide w y other members are assumed to by nanical connection capable of withst o uplift at joint 8. designed in accor Residential Code nd referenced star Standard | d for a liv as where ill fit betv e SPF No n (by oth tanding 1 rdance w e sections ndard AN | e load of 20. a rectangle veen the bott c.2. ers) of truss 96 lb uplift a ith the 2018 is R502.11.1 a ISI/TPI 1. | 0psf tom to ti joint and | | | | | |
| | Max Uplift 8=-196 (L Max Grav 8=1452 (L | LC 9) C 9), 13=-196 (LC 8) _C 1), 13=1452 (LC ² |) 1) | | | | | | | | | | |
| FORCES | (lb) - Maximum Com Tension | pression/Maximum | | | | | | | | | | | |
| TOP CHORD | 1-2=0/35, 2-3=-2277 4-5=-1612/246, 5-6= 2-13=-1376/238, 6-8 | 7/277, 3-4=-1612/246 2277/277, 6-7=0/35 3=-1376/238 | 6, 5, | | | | | | | | | | |
| BOT CHORD | 12-13=-319/806, 11- | -12=-273/1931, | | | | | | | | | | | |
| WEBS | 4-11=-52/829, 5-11= 3-11=-733/255, 3-12 6-9=-8/1127 | 203/254, 5-9=0/266 733/254, 5-9=0/266 2=0/266, 2-12=0/112 | 3, 7, | | | | | | | | | G OF M | AIS c |
| NOTES | | | | | | | | | | | | 950 | 1,0° |
| Unbalance this design Wind: ASG Vasd=91n II; Exp C; cantilever right expo This truss | ed roof live loads have n. CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed ised; Lumber DOL=1.6 has been designed for | been considered for (3-second gust) DL=6.0psf; h=25ft; C tvelope) exterior zon ; end vertical left and 0 plate grip DOL=1.6; r a 10.0 psf bottom | Cat. e; d 60 | | | | | | | | | SCOTT SEVI | ER 18807 |

chord live load nonconcurrent with any other live loads.

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May 3,2024

SSIONAL E

| Job | Truss | Truss Type | Qty | Ply | Lot 137 HM | |
|---------|-------|---------------|-----|-----|--------------------------|-----------|
| B240103 | H8 | Common Girder | 1 | 2 | Job Reference (optional) | 165312017 |

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Thu May 02 07:32:20 ID:vBszku21ozNPT?RIzYtJMSyXqDi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:59.8

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

| Loading (psf) TCLL (roof) 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 NO IRC2018 | 3/TPI2014 | CSI TC BC WB Matrix-S | 0.93 0.69 0.83 | DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL) | in -0.17 -0.30 0.07 0.12 | (loc) 6-7 6-7 6 6-7 | l/defl >999 >999 n/a >999 | L/d 360 240 n/a 240 | PLATES MT20 Weight: 311 lb | GRIP 197/144 FT = 10% | |
|---|---|--|---|--|--|--|--|---------------------------------|---------------------------------------|---------------------------------|----------------------------------|--------------------------------------|--|
| LUMBER TOP CHORD 2x4 SPF No.2 *E) 2.0E BOT CHORD 2x6 SP 2400F 2.0 WEBS 2x4 SPF No.2 WEDGE Right: 2x4 SP No BRACING TOP CHORD Structural wood s BOT CHORD Rigid ceiling direc bracing. WEBS 1 Row at midpt REACTIONS (size) 2=0-3-1 Max Horiz 2=147 Max Horiz 2=147 Max Uplift 2=-397 Max Grav 2=2760 FORCES (b) - Maximum C TOP CHORD 1-2=0/11, 2-3=-5 4-5=-4467/683, 5 BOT CHORD 2-10=-659/4373, 7-8=-1141/8446, WEBS 4-9=-446/3385, 5 5-7=-320/2880, 3 5-8=-345/2115 NOTES 1) 2-ply truss to be connected to (0.131"x3") nails as follows: Top chords connected as follows: Top chords connected as follows: Top chords connected as follows: 2x4 SPF Notes 1) 2-ply truss to be connected to (0.131"x3") nails as follows: Top chords connected as follows: 2x4 SPF Notes 2) All loads are considered equa except if noted as front (F) or CASE(S) section. Ply to ply co provided to distribute only loa unless otherwise indicated. | cept* 4-6:2x4 SPF 240 E 3 heathing directly applied ty applied or 10-0-0 oc 5-9 5, 6=0-3-8 LC 27) (LC 8), 6=-819 (LC 9) (LC 1), 6=5720 (LC 1) pmpression/Maximum 01/703, 3-4=-4466/684 6=-9639/1399 3-10=-1246/9142, 5-7=-1135/8394 9=-5999/1062, 9=-599/363, 3-10=0/30 gether with 10d ws: 2x4 - 2 rows ollows: 2x6 - 2 rows 4 - 1 row at 0-9-0 oc. ly applied to all plies, back (B) face in the LC nnections have been is noted as (F) or (B), | 3) DOF 4) ed. 5) 5 6) 7) 8) 9) 4, 10 D6, LC 1) PAD | Unbalanced this design. Wind: ASCE Vasd=91mpt II; Exp C; En cantilever lef right exposed This truss ha chord live loa * This truss ha chord live loa * This truss ha chord and an All bearing plate 6 and 397 lb This truss is 0 hternational R802.10.2 ar 1 Hanger(s) or provide suff lb down and 1 Bup at 23-1 and 535 lb dd down and 73 design/select responsibility PAD CASE(S) Dead + Roc Plate Increat Uniform Loa Vert: 1-4: Concentrate | roof live loads have 7-16; Vult=115mph ; TCDL=6.0psf; BC closed; MWFRS (et and right exposed d; Lumber DOL=1.6 s been designed fo d nonconcurrent w as been designed in a chord in all areas y 2-00-00 wide will y other members. are assumed to be annical connection capable of withstau uplift at joint 2. designed in accorda Residential Code s d referenced stanc other connection d icient to support co 556 lb up at 29-11-4 otion of such connect of others. Standard of Live (balanced): L se=1.15 ads (lb) 3502 (F), 11=-535 (536 (F) | been (d) (3-second provided in the second pro | considered for ond gust) pps; h=25ft; e) exterior zou ertical left ar grip DOL=1.) ps bottom other live load e load of 20.0 a rectangle veen the bottl 0F 2.0E . ers) of truss I 19 lb uplift al ith the 2018 R502.11.1 a ISI/TPI 1.) shall be tted load(s) 3 lb down and b down and 25-1 -4, and 536 l m chord. Th vice(s) is the Increase=1. | or Cat. ne; nd .60 ads. Opsf om to t joint and 8502 73 1-4, lb e 15, | | | | NUME PE-20010 | MISSOLA M. ER BER 118807 | |

May 3,2024

Page: 1

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RELEASE ICR CONSTRUCTION AS NOTED ON FLANS REVIEW DEVERSION ON FLANS REVIEW LEPS SUMWIT MISSOURI 05/24/2024 2:42:17

| Job | Truss | Truss Type | Qty | Ply | Lot 137 HM | |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B240103 | H9 | Common | 6 | 1 | Job Reference (optional) | 165312018 |

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Thu May 02 07:32:20

Wheeler Lumber, Waverly, KS - 66871,



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

Scale = 1:59.9

| Loading | (psf) | Spacing | 2-0-0 | | csi | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|---------------------------|---|---------------------|---------------|-----------------------|------------|----------------|---------|-------|--------|------|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | | TC | 0.88 | Vert(LL) | -0.09 | 7-9 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | | BC | 0.57 | Vert(CT) | -0.20 | 7-9 | >999 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | | WB | 0.53 | Horz(CT) | 0.09 | 12 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018 | 3/TPI2014 | Matrix-S | | Wind(LL) | 0.04 | 7-9 | >999 | 240 | Weight: 86 lb | FT = 10% |
| | | | 5) | All bearings | are assumed to be | e SPF No | 0.2 . | | | | | | |
| TOP CHOR | 2 2x4 SPF No 2 | | 6) | Bearing at io | int(s) 12 considers | s parallel | to grain valu | le | | | | | |
| BOT CHOR | 2x4 SPF No.2 | | - / | using ANSI/1 | PI 1 angle to grai | in formula | a. Building | | | | | | |
| WEBS | 2x3 SPF No.2 *Exce | ot* 6-5:2x4 SPF No. | 2. | designer sho | uld verify capacity | y of beari | ng surface. | | | | | | |
| | 10-2:2x8 SP 2400F | 2.0E | 7) | Provide mec | hanical connection | n (by othe | ers) of truss | to | | | | | |
| OTHERS | 2x4 SPF No.2 | | | bearing plate | capable of withst | tanding 1 | 56 lb uplift a | t joint | | | | | |
| BRACING | | | | 10 and 122 l | b uplift at joint 12. | | | | | | | | |
| TOP CHOR | O Structural wood she | athing directly applie | ed or ⁸⁾ | This truss is | designed in accor | rdance wi | th the 2018 | | | | | | |
| | 2-2-0 oc purlins, ex | cept end verticals. | | International | Residential Code | sections | R502.11.1 a | and | | | | | |
| BOT CHOR | D Rigid ceiling directly | applied or 10-0-0 oc | 2 | R802.10.2 a | nd referenced star | ndard AN | ISI/TPI 1. | | | | | | |
| | bracing. | | LC | DAD CASE(S) | Standard | | | | | | | | |
| WEBS | 1 Row at midpt | 3-7 | | | | | | | | | | | |
| REACTION | S (size) 10=0-3-8, | 12=0-3-2 | | | | | | | | | | | |
| | Max Horiz 10=223 (L | _C 5) | | | | | | | | | | | |
| | Max Uplift 10=-156 (| (LC 8), 12=-122 (LC | 8) | | | | | | | | | | |
| | Max Grav 10=1055 | (LC 1), 12=941 (LC | 1) | | | | | | | | | | |
| FORCES | (lb) - Maximum Com | pression/Maximum | | | | | | | | | | | |
| | Tension | | | | | | | | | | | | |
| TOP CHOR | D 1-2=0/37, 2-3=-1463 | 3/195, 3-4=-765/129, | | | | | | | | | | | |
| | 4-5=-723/160, 6-11= | =0/100, 5-11=0/100, | | | | | | | | | | | |
| | 2-10=-965/200 | | | | | | | | | | | | |
| BOT CHOR | D 9-10=-269/1194, 7-9 | 9=-269/1194, 6-7=-46 | 6/83 | | | | | | | | | | |
| WEBS | 4-7=0/242, 5-7=-94/ | 635, 3-7=-733/262, | | | | | | | | | | | Th |
| | 3-9=0/302, 5-12=-95 | 54/124 | | | | | | | | | | OFI | ALC D |
| NOTES | | | | | | | | | | | | ALEUTI | 115S |
| 1) Unbalar | ced roof live loads have | been considered for | ſ | | | | | | | | A | | 1.5 |
| this des | gn. | | | | | | | | | | A | SCOT | TM. PY |
| 2) Wind: A | SCE 7-16; Vult=115mph | (3-second gust) | | | | | | | | | a | 7 SEV | TER YY |
| Vasd=9 | impn; ICDL=6.0pst; BC | DL=6.0pst; n=25tt; (| Jat. | | | | | | | | 1 at | | |
| II; EXP C | ; Enclosed; IVIVVERS (er | velope) exterior zon | ie; | | | | | | | | RI | | 8 |
| right over | osed Lumber DOI =1 6 | , end ventical left and 0 plate arin DOI =1.4 | u 30 | | | | | | | _ | 2 | toll' | - ener |
| 3) This true | s has been designed for | r a 10 0 nsf bottom | 50 | | | | | | | _ | 5 | T NUM | BER |
| chord liv | e load nonconcurrent wi | ith any other live load | ds | | | | | | | | N | O∖ PE-2001 | 018807 |
| 2.1014 111 | | | | | | | | | | | N N | | |

* This truss has been designed for a live load of 20.0psf 4) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.



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May 3,2024

SSIONAL

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| Job | Truss | Truss Type | Qty | Ply | Lot 137 HM | |
|---------|-------|---------------------|-----|-----|--------------------------|-----------|
| B240103 | J1 | Diagonal Hip Girder | 2 | 1 | Job Reference (optional) | 165312019 |

-1-2-14

1-2-14

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Thu May 02 07:32:20 ID:YsOUNzphuXNGFYh7BjxGp5ziJsK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

5-6-6

5-6-6

5-6-6





| Loading TCLL (roof) TCDL BCLL BCDL | | (psf) 25.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 NO IRC2 | 018/TPI2014 | CSI TC BC WB Matrix-R | 0.49 0.29 0.00 | DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL) | in -0.04 -0.08 0.02 0.03 | (loc) 4-5 4-5 3 4-5 | l/defl >999 >783 n/a >999 | L/d 360 240 n/a 240 | PLATES MT20 Weight: 15 lb | GRIP 197/144 FT = 10% |
|--|---|--|---|-------------------------------------|--|--|--|---|---|---------------------------------|---------------------------------------|---------------------------------|--|------------------------------------|
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS | 2x4 SPF N 2x4 SPF N 2x4 SPF N Structural 5-6-6 oc p Rigid ceili bracing. (size) Max Horiz Max Uplift Max Grav | No.2 No.2 No.2 No.2 No.2 No.2 S=Mecha 5=0-4.9 5=96 (LC 3=164 (LC 3=164 (LC (LC 1) | athing directly applied cept end verticals. applied or 10-0-0 oc inical, 4= Mechanical 4) 5 8), 5=-91 (LC 4) C 1), 4=100 (LC 3), 53 | d or , =347 | 8) Hanger(s) or provided suf down and 36 up at 2-9-8, and 3 chord. The (s) is the res 9) In the LOAD of the truss a LOAD CASE(S) 1) Dead + Ro Plate Incre. Uniform Lo Vert: 1-2 Concentrat Vert: 7=: | r other connect ficient to supprise b lb up at 2-9-i on top chord, a lb down and 2 design/selectic ponsibility of ot CASE(S) sec are noted as fr Standard of Live (balance ase=1.15 ads (lb/ft) =-70, 2-3=-70, ed Loads (lb) 3 (F=2, B=2) | tion device(s ort concentra 8, and 69 lb and 3 lb dow 2 lb up at 2-6 but ers. tion, loads a ont (F) or ba ed): Lumber , 4-5=-20 |) shall be ated load(s) i down and 36 n and 2 lb uj 0-8 on bottor nnnection de oplied to the ck (B). Increase=1 | 69 lb 6 lb p at n vice face .15, | | | | | |
| TOP CHORD BOT CHORD | (Ib) - Maxi Tension 2-5=-306/ ⁻ 4-5=0/0 | mum Com 137, 1-2=0 | pression/Maximum)/32, 2-3=-92/42 | | | - (,) | | | | | | | | |

3x6 II

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 * This truss has been designed for a live load of 20.0psf
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SPF No.2 .
- Refer to girder(s) for truss to truss connections.
 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 91 lb uplift at joint
- 5 and 77 lb uplift at joint 3.
 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and
- International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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| Job | Truss | Truss Type | Qty | Ply | Lot 137 HM | |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B240103 | J2 | Jack-Open | 4 | 1 | Job Reference (optional) | 165312020 |

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Thu May 02 07:32:20 ID:YnHn5j?1veow56V2CRjJ3lziJtO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f









| | | | | 4-0-0 | | | | | | | | |
|----------------|-------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| Scale = 1:24.8 | | | | | | | | | | | | |
| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | тс | 0.20 | Vert(LL) | -0.01 | 4-5 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.13 | Vert(CT) | -0.02 | 4-5 | >999 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.01 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | Wind(LL) | 0.01 | 4-5 | >999 | 240 | Weight: 11 lb | FT = 10% |

| BCLL BCDL | 0.0* 10.0 | Code | YES IRC2018/TPI2014 | WB Matrix-R | 0.00 | Wind(LL) | 0.01 0.01 | 3 4-5 | n/a >999 | n/a 240 | Weight: 11 lb |
|---|---|---|--------------------------------------|----------------|------|----------|-----------|----------|-------------|------------|---------------|
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD | 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Structural wood sh 4-0-0 oc purlins, e Rigid ceiling directl | eathing directly applie xcept end verticals. y applied or 10-0-0 oc | LOAD CASE(S) | Standard | | | | | | | |
| REACTIONS | bracing. (size) 3= Mech 5=0-3-8 Max Horiz 5=89 (LC Max Uplift 3=-66 (L Max Grav 3=116 (L (LC 1) | anical, 4= Mechanica C 8) C 8), 5=-30 (LC 8) .C 1), 4=71 (LC 3), 5= | l, 252 | | | | | | | | |
| TOP CHORD BOT CHORD BOT CHORD NOTES 1) Wind: AS Vasd=911 II; Exp C; cantilever right expc 2) This truss chord live 3) * This trus on the bo 3-06-00 tr chord and 4) All bearin 5) Refer to <u>6</u> 6) Provide n bearing p 5 and 66 7) This truss Internatio R802.10.1 | (II) - Maximum Con Tension 2-5=-221/67, 1-2=0 4-5=0/0 CE 7-16; Vult=115mp mph; TCDL=6.0psf; Bi Enclosed; MWFRS (e left and right exposer used; Lumber DOL=1. has been designed though an onconcurrent v ss has been designed ttom chord in all areas all by 2-00-00 wide wil d any other members. gs are assumed to be girder(s) for truss to tr nechanical connection late capable of withsta Ib uplift at joint 3. is designed in accorr nal Residential Code 2 and referenced stan | b/32, 2-3=-75/40 h (3-second gust) CDL=6.0psf; h=25ft; C envelope) exterior zon d; end vertical left and 60 plate grip DOL=1.6 or a 10.0 psf bottom vith any other live load for a live load of 20.0 s where a rectangle I fit between the botto SPF No.2. uss connections. (by others) of truss to anding 30 lb uplift at jo dance with the 2018 sections R502.11.1 ar dard ANSI/TPI 1. | eat. e; 100 Is. psf m | | | | | | · | | PE-2001 |



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May 3,2024

OF MISS

SCOTT M. SEVIER

PE-2001018807

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rs and READ NOTES ON THIS AND INCLUDED MITEK REFEREN WARNING - Verify design parameters and KEAD KO LES ON THIS AND INCLUDED MILEK REFERENCE PAGE MIL-7473 rev. 17/2/2023 BEFORE USE. Design valid for use only with MITeK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria**, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

| Job | Truss | Truss Type | Qty | Ply | Lot 137 HM | |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B240103 | J3 | Jack-Open | 4 | 1 | Job Reference (optional) | 165312021 |

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Thu May 02 07:32:20 ID:?iJjkFo?gjnBAeG_G4RZQNziJte-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





| Scale = 1:22.6 | | | | | | | I | | | | | |
|----------------|-------|-----------------|-----------------|----------|------|----------|------|-------|--------|-----|--------------|----------|
| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | тс | 0.07 | Vert(LL) | 0.00 | 4-5 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.02 | Vert(CT) | 0.00 | 4-5 | >999 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | Wind(LL) | 0.00 | 4-5 | >999 | 240 | Weight: 6 lb | FT = 10% |

1-10-15

| | 2x4 SPE No 2 | LOAD CASE(S) | Standard |
|---------------------------------|--|--------------|---|
| BOT CHORD | 2x4 SFF No.2 2x4 SPF No.2 | | |
| WEBS | 2x4 SPF No.2 | | |
| BRACING | | | |
| TOP CHORD | Structural wood sheathing directly applied or 1-10-15 oc purlins, except end verticals. | | |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. | | |
| REACTIONS | (size) 3= Mechanical, 4= Mechanical, 5=0-3-8 | | |
| | Max Horiz 5=48 (LC 8) | | |
| | Max Uplift 3=-30 (LC 8), 5=-26 (LC 8) | | |
| | Max Grav 3=44 (LC 1), 4=31 (LC 3), 5=171 (LC 1) | | |
| FORCES | (lb) - Maximum Compression/Maximum Tension | | |
| TOP CHORD | 2-5=-150/44, 1-2=0/32, 2-3=-37/14 | | |
| BOT CHORD | 4-5=0/0 | | |
| NOTES | | | |
| 1) Wind: AS | CE 7-16; Vult=115mph (3-second gust) | | |
| Vasd=91r | nph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. | | |
| II; Exp C; | Enclosed; MWFRS (envelope) exterior zone; | | |
| right expo | sed: Lumber DOL -1.60 plate grip DOL -1.60 | | |
| This truss | has been designed for a 10.0 psf bottom | | Æ |
| chord live | load nonconcurrent with any other live loads. | | E. |
| This trus | s has been designed for a live load of 20.0psf | | H.A. |
| on the bot | tom chord in all areas where a rectangle | | 4 5/ |
| 3-06-00 ta | Il by 2-00-00 wide will fit between the bottom | | |
| 4) All bearing | any other members. | | |
| 5) Refer to g | irder(s) for truss to truss connections. | | |
| 6) Provide m | echanical connection (by others) of truss to | | N ST |
| bearing pl | ate capable of withstanding 26 lb uplift at joint | | WO/ |
| 5 and 30 l | b uplift at joint 3. | | N S |
| I his truss | is designed in accordance with the 2018 | | |
| R802 10 3 | and referenced standard ANSI/TPL1 | | U. C. |
| 1002.10.2 | | | |
| | | | |
| | | | |

RELEASE ICROMETRUCTION AS NOTED ON LANS REVIEW DEVERSION SERVICES LEETS SUMMITY MISSOURI 05/24/2024 2:42:17

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May 3,2024

OF MISSO

SCOTT M. SEVIER

NUMBER PE-2001018807

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Page: 1

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent colleges 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, 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)

| Job | Truss | Truss Type | Qty | Ply | Lot 137 HM | |
|---------|-------|--------------|-----|-----|--------------------------|-----------|
| B240103 | LAY1 | Lay-In Gable | 1 | 1 | Job Reference (optional) | 165312022 |

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Thu May 02 07:32:20 ID:ipLE8EJHK7d0ILe5MzByFkziJuH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:30

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

| Loading | (psf) | Spacing | 2-0-0 | | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|----------------------------------|--|---------------------------------------|---------|---|---|--|---|--------------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | | тс | 0.04 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | | BC | 0.02 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | | WB | 0.02 | Horiz(TL) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018 | 3/TPI2014 | Matrix-P | | | | | | | Weight: 19 lb | FT = 10% |
| LUMBER TOP CHORD BOT CHORD | 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 | | 7) | * This truss h on the bottor 3-06-00 tall h chord and ar | nas been designe m chord in all are by 2-00-00 wide v ny other member | ed for a live as where will fit betw s. | e load of 20.0 a rectangle veen the botto | Dpsf om | | | | | |
| | | | 8) | All bearings | are assumed to b | be SPF No | .2 . | | | | | | |
| TOP CHORD | Structural wood she | athing directly applie | d or 9) | Provide mec bearing plate | hanical connection connectication connecticaticaticaticaticaticaticaticaticatic | on (by othe standing 1 | ers) of truss t 06 lb uplift at | o i joint | | | | | |
| BOT CHORD | Rigid ceiling directly bracing. | applied or 10-0-0 oc | 10 | 7 and 105 lb) This truss is | uplift at joint 6. designed in acco | ordance wi | th the 2018 | | | | | | |
| REACTIONS | (size) 1=5-9-15, 7=5-9-15 | 5=5-9-15, 6=5-9-15, | , | R802.10.2 a | Residential Cod | e sections andard AN | R502.11.1 a SI/TPI 1. | ind | | | | | |
| | Max Horiz 1=-78 (LC | 2 4) | LC | AD CASE(S) | Standard | | | | | | | | |
| | Max Uplift 6=-105 (L | C 9), 7=-106 (LC 8) | | | | | | | | | | | |
| | Max Grav 1=92 (LC (LC 16), 7 | 17), 5=91 (LC 18), 6 /=181 (LC 15) | =180 | | | | | | | | | | |
| FORCES | (lb) - Maximum Com Tension | pression/Maximum | | | | | | | | | | | |
| TOP CHORD | 1-2=-112/62, 2-3=-5 4-5=-111/60 | 8/13, 3-4=-58/12, | | | | | | | | | | | |
| 3OT CHORD WEBS | 1-7=-40/103, 6-7=-4 2-7=-142/129, 4-6=- | 0/103, 5-6=-40/103 140/128 | | | | | | | | | | | |
| NOTES | | | | | | | | | | | | | |
| 1) Unbalance | ed roof live loads have | been considered for | | | | | | | | | | | m |
| this desig | n. | | | | | | | | | | | OFA | ALC AL |
| 2) Wind: AS | CE 7-16; Vult=115mph | (3-second gust) | | | | | | | | | | FEUT | 115'S |
| Vasd=91n | nph; TCDL=6.0psf; BC | DL=6.0psf; h=25ft; C | Cat. | | | | | | | | A | (F) | 1.5 |
| II; Exp C; | Enclosed; MWFRS (er | velope) exterior zon | e; | | | | | | | | A | SCOT | IM. P.V. |
| cantilever | left and right exposed | ; end vertical left and | d A | | | | | | | | H | SEVI | ER \ Y |
| right expo | sed; Lumber DOL=1.6 | 0 plate grip DOL=1.6 | 60 | | | | | | | | 0 | | |
| 3) Truss des | signed for wind loads in | (normal to the face) | 55 | | | | | | | | RX^ | + | 1. Lit |
| see Stand | lard Industry Gable En | d Details as applicab | , | | | | | | | 2 | | Coll a | Jerren |
| or consult | qualified building desir | oner as per ANSI/TP | 11 | | | | | | | - | 5 | | BER |
| Gable reg | uires continuous botto | m chord bearing. | | | | | | | | | N | O∖ PE-2001 | 018807 |
| 5) Gable stu | ds spaced at 0-0-0 oc. | · · · · · · · · · · · · · · · · · · · | | | | | | | | | N. | The last | 188 |
| This truss | has been designed for | r a 10.0 psf bottom | | | | | | | | | | Ser | ENO'B |
| chord live | load nonconcurrent wi | th any other live load | ls. | | | | | | | | | UNA NA | LEY |
| | | , | | | | | | | | | | Van | DEED - |



May 3,2024

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 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 touls be personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TPI1 Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

| Job | Truss | Truss Type | Qty | Ply | Lot 137 HM | |
|---------|-------|-------------|-----|-----|--------------------------|-----------|
| B240103 | R1 | Flat Girder | 1 | 2 | Job Reference (optional) | 165312023 |

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Thu May 02 07:32:20 ID:vBszku21ozNPT?RIzYtJMSyXqDi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Page: 1

AS NOTED ON FLANS REVIEW DEVERSION SERVICES LEE'S'SUMWIT'S MISSOURI 05/24/2024 2:42:17



Scale = 1:32.1

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

| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 25.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 NO IRC2018 | /TPI2014 | CSI TC BC WB Matrix-S | 0.43 0.42 0.63 | DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL) | in -0.09 -0.16 0.00 0.06 | (loc) 5-6 5-6 4 5-6 | l/defl >999 >942 n/a >999 | L/d 360 240 n/a 240 | PLATES MT20 Weight: 150 lb | GRIP 197/144 FT = 10% |
|---|---|--|--|---|---|--|---|---|---------------------------------|---------------------------------------|---------------------------------|---|--|
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD WEBS NOTES 1) 2-ply truss (0.131"x3" Top chord oc, 2x6 - 2 Bottom ch staggered Web conn 2) All loads a except if n CASE(S) : provided t unless oth 3) Wind: ASC Vasd=91n II; Exp C; cantilever right expo: 4) Provide ac | 2x6 SPF No.2 2x6 SP 2400F 2.0E 2x4 SPF No.2 2-0-0 oc purlins (6-0 end verticals. Rigid ceiling directly bracing. (size) 4=0-2-0, (Max Horiz 6=-97 (LC Max Uplift 4=-489 (L Max Grav 4=3137 (I (Ib) - Maximum Corr Tension 1-6=-2177/384, 1-2= 2-3=-4969/758, 3-4= 5-6=-103/235, 4-5=- 1-5=-802/5124, 2-5= 5 to be connected toge 1) nails as follows: 2 rows staggered at 0-5 ords connected as follows 2 r | I-0 max.): 1-3, excep applied or 10-0-0 oc S= Mechanical C 5), 6=-544 (LC 4) C 5), 6=-544 (LC 4) C 1), 6=3522 (LC 1) pression/Maximum -4969/758, -2181/385 54/207 -367/288, 3-5=-804/3 ther with 10d S: 2x4 - 1 row at 0-9-0 G-0 oc. ows: 2x6 - 2 rows -1 row at 0-9-0 oc. applied to all plies, ck (B) face in the LO, nections have been noted as (F) or (B), (3-second gust) DL=6.0psf; h=25ft; C rvelope) exterior zonc ; end vertical left and 0 plate grip DOL=1.6 event water ponding. | 5) 6) t 7) 8) 9) 10) 11) 12) 5136 13) 0 AD 1) at. 2; 0 | This truss ha chord live loa * This truss h on the botton 3-06-00 tall b chord and ar Bearings are SP 2400F 2. Refer to girdt Provide meci- bearing plate 6 and 489 lb This truss is International R802.10.2 ar Graphical pu or the orienta bottom choro Hanger(s) or provided suff Ib down and up at 3-0-0, down and 13 Ib up at 9-0- on bottom choro Connection d AD CASE(S) Dead + Roo Plate Increa Uniform Loa Vert: 1-3: Concentrate | s been designed fo d nonconcurrent w as been designed fo n chord in all areas y 2-00-00 wide will y other members. assumed to be: Jo DE. er(s) for truss to tru- nanical connection at joint(s) 4. designed in accord Residential Code s and referenced stand tion of the purlin al other connection do cicient to support co 133 lb up at 1-0-0, 921 lb down and 13 4 lb up at 7-0-0, an 0, and 921 lb down ord. The design/se evice(s) is the resp Standard of Live (balanced): I se=1.15 ads (lb/ft) =-70, 4-6=-20 ed Loads (lb) 922, 8=-921, 9=-92 | r a 10.0 r a 10.0 rith any for a liv where fit betw int 6 SF ss conr (by oth (by oth nding 5 ance w sections dard AN does no ong the levice(s nocentra 921 lb 34 lb up nd 921 and 13 election onsibili Lumber 1, 10=- | Dest bottom other live load e load of 20.0 a rectangle ween the botto PF No.2, Joir nections. ers) of truss t ers) of truss t ers) of truss t ith the 2018 R502.11.1 a USI/TPI 1. of depict the s e top and/or) shall be at 5-0-0, 92 b down and 13 o at 5-0-0, 92 b down and 13 | ds. Opsf om nt 4 o o o joint size 22 44 lb 134 I-0-0 15, | | | | STATE OF M STATE OF M SCOTT SEVI PE-20010 PE-20010 PE-20010 Ma | AISSOLUTION M. ER M. ER M. ER M. ER M. ER M. EN M. ER M. ER |
| Design va | IING - Verify design parame alid for use only with MiTek® | ters and READ NOTES Of connectors. This design is | N THIS AND I | NCLUDED MITEK | REFERENCE PAGE MI | I-7473 rev vidual bui | 1. 1/2/2023 BEFO | RE USE. | | | | | |

Design valid for use only with MTeK become tors. 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, 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)

| Job | Truss | Truss Type | Qty | Ply | Lot 137 HM | |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B240103 | V1 | Valley | 1 | 1 | Job Reference (optional) | 165312024 |

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Thu May 02 07:32:20 ID:vBszku21ozNPT?RIzYtJMSyXqDi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

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Scale = 1:27

| | | | | - | | | | | | | | |
|---------------------------------|----------------------------------|-------------------------|------------------|---------------------|----------|--------------|------|-------|--------|----------|---------------|------------|
| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.44 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.23 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | Weight: 15 lb | FT = 10% |
| LUMBER | | | 9) This truss is | designed in accord | lance w | ith the 2018 | | | | | | |
| TOP CHORD | 2x4 SPF No.2 | | Internationa | Residential Code s | sections | R502.11.1 a | and | | | | | |
| BOT CHORD | 2x4 SPF No.2 | | R802.10.2 a | nd referenced stand | dard AN | ISI/TPI 1. | | | | | | |
| WEBS | 2x3 SPF No.2 | | LOAD CASE(S) | Standard | | | | | | | | |
| BRACING | | | | | | | | | | | | |
| TOP CHORD | Structural wood she | athing directly appli | ed or | | | | | | | | | |
| | 5-4-2 oc purlins, ex | cept end verticals. | | | | | | | | | | |
| BOICHORD | bracing | applied or 10-0-0 o | С | | | | | | | | | |
| REACTIONS | (size) 1=5-3-12 | , 3=5-3-12 | | | | | | | | | | |
| | Max Horiz 1=126 (L | C 5) | | | | | | | | | | |
| | Max Uplift 1=-18 (LC | C 8), 3=-62 (LC 8) | | | | | | | | | | |
| | Max Grav 1=214 (L0 | C 1), 3=230 (LC 15) | | | | | | | | | | |
| FORCES | (lb) - Maximum Com | npression/Maximum | | | | | | | | | | |
| | 1 2- 119/06 2 2- 1 | 02/01 | | | | | | | | | | |
| BOT CHORD | 1-2=-110/90, 2-3=-1 | 02/91 | | | | | | | | | | |
| NOTES | 10-10/01 | | | | | | | | | | | |
| 1) Wind AS(| CE 7-16 [.] Vult=115mph | (3-second gust) | | | | | | | | | | |
| Vasd=91n | nph: TCDL=6.0psf: BC | DL=6.0psf: h=25ft: | Cat. | | | | | | | | | |
| II; Exp C; | Enclosed; MWFRS (er | nvelope) exterior zo | ne; | | | | | | | | | |
| cantilever | left and right exposed | ; end vertical left an | nd | | | | | | | | | |
| right expo | sed; Lumber DOL=1.6 | 0 plate grip DOL=1. | 60 | | | | | | | | | |
| Iruss des | signed for wind loads in | n the plane of the tru | JSS | | | | | | | | | 100 |
| only. For | and Industry Cable En | d Details as applica |), ble | | | | | | | | OFI | MIG |
| or consult | aualified building desi | oner as per ANSI/TI | PI 1 | | | | | | | | FIE | 100°C |
| 3) Gable req | uires continuous botto | m chord bearing. | | | | | | | | a | N | New |
| 4) Gable stu | ds spaced at 4-0-0 oc. | Ū | | | | | | | | H | SCOT | ТМ. \`С УД |
| 5) This truss | has been designed fo | r a 10.0 psf bottom | | | | | | | | 8 | SEV. | IER \ X |
| chord live | load nonconcurrent w | ith any other live loa | ids. | | | | | | | BA | | |
| 6) * This trus | ss has been designed f | for a live load of 20.0 | Opst | | | | | | | <u>Қ</u> | | |
| 3-06-00 ta | llom chord in all areas | fit between the bott | om | | | | | | _ | | NUM | |
| chord and | any other members | In between the bott | | | | | | | | N2 | PE-2001 | 018807 |
| All bearing | gs are assumed to be | SPF No.2 . | | | | | | | | N | The | 18A |
| 8) Provide m | nechanical connection | (by others) of truss t | 0 | | | | | | | X | Ser | NO'A |
| bearing pl | late capable of withsta | nding 18 lb uplift at j | oint | | | | | | | | ONA | LEL |
| 1 and 62 l | lb uplift at joint 3. | | | | | | | | | | 1000 | THE |
| | | | | | | | | | | | Ma | ay 3,2024 |

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 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 touls be personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TPI1 Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)



| Job | Truss | Truss Type | Qty | Ply | Lot 137 HM | |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B240103 | V2 | Valley | 1 | 1 | Job Reference (optional) | 165312025 |

3-9-12

3-9-12

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Thu May 02 07:32:20 ID:vBszku21ozNPT?RIzYtJMSyXqDi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale - 1.23 1

| 00010 - 112011 | | | | | | | | | | | | |
|---|--|---|--|---|---------------------------------|---|------|-------|--------|-----|-----------------|--|
| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | тс | 0.19 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.10 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | Weight: 11 lb | FT = 10% |
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS | 2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 Structural wood shea 3-10-2 oc purlins, e: Rigid ceiling directly bracing. (size) 1=3-9-12, Max Horiz 1=86 (LC Max Uplift 1=-12 (LC Max Grav 1=147 (LC (lb) - Maximum Com Tension | athing directly applied xcept end verticals. applied or 10-0-0 oc 3=3-9-12 5) 8), 3=-42 (LC 8) C 1), 3=157 (LC 15) pression/Maximum | 9) This truss is International R802.10.2 a LOAD CASE(S) | designed in accor Residential Code nd referenced star Standard | dance w sections ndard AN | ith the 2018 R502.11.1 a ISI/TPI 1. | nd | | | | Weight. This | |
| TOP CHORD BOT CHORD | 1-2=-81/66, 2-3=-12 1-3=-31/23 | 5/62 | | | | | | | | | | |
| NOTES | | | | | | | | | | | | |
| Wind: ASC Vasd=91n II; Exp C; cantilever right expo Truss des only. For see Stand or consult Gable req Gable stud Gable stud This truss chord live * This truss on the bot 3-06-00 ta chord and All bearing Provide m bearing pl 1 and 42 l | CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (en left and right exposed sed; Lumber DOL=1.6 signed for wind loads in studs exposed to wind lard Industry Gable End qualified building desig uires continuous bottor ds spaced at 4-0-0 oc. has been designed for load nonconcurrent wi is has been designed for tom chord in all areas all by 2-00-00 wide will any other members. gs are assumed to be S eechanical connection (ate capable of withstar b uplift at joint 3. | (3-second gust) DL=6.0psf; h=25ft; C ivelope) exterior zonc; end vertical left and 0 plate grip DCL=1.6 h the plane of the trus (normal to the face), d Details as applicab gner as per ANSI/TP: n chord bearing. a 10.0 psf bottom th any other live load or a live load of 20.0p where a rectangle fit between the bottor SPF No.2. by others) of truss to adding 12 lb uplift at jo | at. e; 0 ss le, 11. s. ssf m | | | | | | 4 | | NUM PE-20010 | MISSOLE T.M. ER BER DI8807 |

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| Job | Truss | Truss Type | Qty | Ply | Lot 137 HM | |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B240103 | V3 | Valley | 1 | 1 | Job Reference (optional) | 165312026 |

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Thu May 02 07:32:20 ID:vBszku21ozNPT?RIzYtJMSyXqDi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



2x4 🛚



2-3-12

1-6-12

| Scale = 1:21.8 | | | | 1 | | | 1 | | | | | |
|---|--|---|--|---|--------------------------------|--|--------------------------|----------------------|-----------------------------|--------------------------|---|--|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 25.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC2018/TPI2014 | CSI TC BC WB Matrix-P | 0.05 0.03 0.00 | DEFL Vert(LL) Vert(TL) Horiz(TL) | in n/a n/a 0.00 | (loc) - - 3 | l/defl n/a n/a n/a | L/d 999 999 n/a | PLATES MT20 Weight: 6 lb | GRIP 197/144 FT = 10% |
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD BOT CHORD REACTIONS | 2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 Structural wood she 2-4-2 oc purlins, ex Rigid ceiling directly bracing. (size) 1=2-3-12, Max Horiz 1=47 (LC Max Uplift 1=-7 (LC Max Grav 1=79 (LC (lb) - Maximum Corr | eathing directly applie cept end verticals. applied or 10-0-0 or , 3=2-3-12 5) 8), 3=-23 (LC 8) 1), 3=85 (LC 15) apression/Maximum | 9) This truss is Internationa R802.10.2 a LOAD CASE(S) | designed in accord I Residential Code s and referenced stan Standard | dance w sections dard AN | ith the 2018 R502.11.1 a ISI/TPI 1. | and | | | | Weight. 0 ib | 11 - 1078 |
| TOP CHORD BOT CHORD | Tension 1-2=-43/35, 2-3=-67 1-3=-17/13 | //33 | | | | | | | | | | |
| NOTES 1) Wind: ASC Vasd=91m II; Exp C; E cantilever II; Exp C; E cantilever II; Exp C; I cantilever II; Exp | CE 7-16; Vult=115mph hph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6 igned for wind loads in studs exposed to wind ard Industry Gable En qualified building desi uires continuous botto ds spaced at 4-0-0 oc. has been designed fo load nonconcurrent w s has been designed to be shas been designed to be shas been designed to s has been designed to be shas be | a (3-second gust) CDL=6.0psf; h=25ft; (hvelope) exterior zor ; end vertical left an 00 plate grip DOL=1.4 n the plane of the tru 1 (normal to the face) d Details as applicat gner as per ANSI/TF m chord bearing. r a 10.0 psf bottom ith any other live load for a live load of 20.0 where a rectangle fit between the bottot SPF No.2. (by others) of truss to nding 7 lb uplift at join | Cat. re; d 60 siss), ole, P1 1. ds. opsf om o int 1 | | | | | | | | STATE OF STATE OF SEV SEV PE-2007 | MISSOLD T.M. TER Jones MISSOLD TER MISSOLD |

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent toulsable 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, 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)



| Job | Truss | Truss Type | Qty | Ply | Lot 137 HM | |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B240103 | V4 | Valley | 1 | 1 | Job Reference (optional) | 165312027 |

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Thu May 02 07:32:20 ID:vBszku21ozNPT?RIzYtJMSyXqDi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:45.2

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

| Loading TCLL (roof TCDL BCLL BCDL | (psf) 25.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC2018 | 3/TPI2014 | CSI TC BC WB Matrix-S | 0.32 0.19 0.11 | DEFL Vert(LL) Vert(TL) Horiz(TL) | in n/a n/a 0.02 | (loc) - - 4 | l/defl n/a n/a n/a | L/d 999 999 n/a | PLATES MT20 Weight: 41 lb | GRIP 197/144 FT = 10% |
|--|---|---|--|--|--|---|--|--|----------------------|-----------------------------|--------------------------|---------------------------------|------------------------------------|
| LUMBER TOP CHOF BOT CHOF WEBS OTHERS BRACING TOP CHOF BOT CHOF REACTION | 2x4 SPF No.2 2x4 SPF No.2 *Exce 2x3 SPF No.2 2x3 SPF No.2 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (size) 4=13-5-4, 7=13-5-4, Max Horiz 8=-171 (L Max Uplift 4=-64 (LC (LC 5), 8= Max Grav 4=203 (LC 8=202 (LC | athing directly applie cept end verticals. applied or 6-0-0 oc 5=13-5-4, 6=13-5-4 8=13-5-4 C 9) 2 9), 5=-191 (LC 9), 7 =-145 (LC 9) C 16), 5=615 (LC 16) 14), 7=376 (LC 18), 7, 16) | 5) 6) 2 7) d or 8) 9) 723 723 11 12 | Gable studs This truss ha chord live loa * This truss h on the bottor 3-06-00 tall b chord and ar All bearings Bearing at jo using ANSI/T designer sho) Provide mec bearing plate 8, 64 lb uplift uplift at joint) Beveled plate surface with) This truss is | spaced at 4-0-0 o s been designed ad nonconcurrent has been designed n chord in all area by 2-00-00 wide w y other members are assumed to be int(s) 7 considers TPI 1 angle to grai uld verify capacity hanical connection o capable of withst at joint 4, 23 lb up 5. e or shim required truss chord at join designed in accor | c. for a 10.0 with any d for a liv is where ill fit betw with BC e SPF No parallel t n formula v of bearin n (by oth canding 1 plift at joi l to provin t(s) 8. dance w |) psf bottom other live loa e load of 20.0 a rectangle veen the bott DL = 10.0psi 0.2. o grain value a. Building ng surface. ers) of truss t 45 lb uplift at nt 7 and 191 de full bearin th the 2018 | ads. Opsf om f. to t joint Ib g | | | | | |
| FORCES | (lb) - Maximum Com Tension | pression/Maximum | | R802.10.2 a | nd referenced star | ndard AN | ISI/TPI 1. | and | | | | | |
| TOP CHOP | D 1-8=-150/158, 1-2=- 3-4=-84/120 | 164/245, 2-3=-142/2 | 43, LC | IAD CASE(S) | Standard | | | | | | | | |
| BOT CHOP | 2D 7-8=-11/36, 6-7=0/0 4-5=-5/7 | , 2-7=-292/42, 5-6=-{ | 5/7, | | | | | | | | | STAT | ADDE |
| WEBS | 3-5=-390/243 | | | | | | | | | | | OF I | MIS.C. |
| NOTES 1) Unbala this de: 2) Wind: 4 Vasd=4 II; Exp cantiler right e> 3) Truss only. F see Sta cross | nced roof live loads have sign. SCE 7-16; Vult=115mph 1mph; TCDL=6.0psf; BC C; Enclosed; MWFRS (er rer left and right exposed posed; Lumber DOL=1.6 designed for wind loads in or studs exposed to wind indard Industry Gable En ult gualified building desi | been considered for (3-second gust) EDL=6.0psf; h=25ft; C hvelope) exterior zon ; end vertical left and 0 plate grip DOL=1.6 n the plane of the tru: I (normal to the face) d Details as applicab guera as one ANS/ITE | Cat. e; d 50 ss , , , , , , , | | | | | | | | | SCOT SEVI NUM PE-2001 | r M. ER DIS807 |
| | an quamer building desi | m chard boaring | | | | | | | | | | A INA | - |

4) Gable requires continuous bottom chord bearing.

May 3,2024

Page: 1



TION 'IEW DEVELOPMENT SERVICES LEE'S' SUMMIT'S MISSOURI 05/24/2024 2:42:17

| Job | Truss | Truss Type | Qty | Ply | Lot 137 HM | |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B240103 | V5 | Valley | 1 | 1 | Job Reference (optional) | 165312028 |

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Thu May 02 07:32:21 ID:vBszku21ozNPT?RIzYtJMSyXqDi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:40.5

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

| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 25.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC2018 | 3/TPI2014 | CSI TC BC WB Matrix-S | 0.21 0.13 0.06 | DEFL Vert(LL) Vert(TL) Horiz(TL) | in n/a n/a 0.02 | (loc) - - 4 | l/defl n/a n/a n/a | L/d 999 999 n/a | PLATES MT20 Weight: 35 lb | GRIP 197/144 FT = 10% | |
|--|---|---|---|---|--|--|---|---------------------------------|----------------------|-----------------------------|--------------------------|---------------------------------|------------------------------------|---|
| LUMBER TOP CHORD 30T CHORD WEBS DTHERS BRACING TOP CHORD 30T CHORD REACTIONS | 2x4 SPF No.2 2x4 SPF No.2 *Exce 2x3 SPF No.2 2x3 SPF No.2 Structural wood she 6-0-0 oc purlins, exi Rigid ceiling directly bracing. (size) 4=11-11-4 7=11-11-4 Max Horiz 8=-131 (L Max Uplift 4=-34 (LC (LC 5), 8= Max Grav 4=120 (LC (LC 3), 7= 21) | athing directly applie cept end verticals. applied or 10-0-0 od 4, 5=11-11-4, 6=11-1 4, 8=11-11-4 C 4) 5 9), 5=-156 (LC 9), 5 -106 (LC 9) C 1), 5=413 (LC 16), -313 (LC 15), 8=185 | 5) 6) 7) 6d or 8) 5 9) 11-4, 10 7=-5 6=65 11 (LC 12 | Gable studs This truss ha chord live loa * This truss f on the bottor 3-06-00 tall b chord and ar All bearings : Bearing at jo using ANSI/I designer sho) Provide mec bearing plate 8, 34 lb uplift uplift at joint) Beveled plate surface with) This truss is International | spaced at 4-0-0 oc s been designed fi ad nonconcurrent v has been designed n chord in all areas yo 2-00-00 wide wil yo other members. are assumed to be int(s) 7 considers p TPI 1 angle to grain uld verify capacity hanical connection capable of withsta at joint 4, 5 lb upli 5. e or shim required truss chord at joint designed in accord Residential Code | c. or a 10.0 vith any for a liv s where Il fit betw SPF No coarallel t of beari (by oth anding 1 ft at join to provid (s) 8. dance w sections | D psf bottom other live loa e load of 20.0 a rectangle veen the botto b.2. o grain value a. Building ng surface. ers) of truss t 06 lb uplift at t 7 and 156 lt de full bearing ith the 2018 | ds. Dpsf om joint g | | | | | | |
| F ORCES | (lb) - Maximum Com Tension 1-8=-151/123, 1-2=- | pression/Maximum 145/189, 2-3=-118/1 | 80, LC | R802.10.2 ar | nd referenced stan Standard | dard AN | ISI/TPI 1. | | | | | | | |
| BOT CHORD | 3-4=-50/79 7-8=-17/42, 6-7=0/0, 5-6=-10/18, 4-5=-10, | , 2-7=-262/23, /18 | | | | | | | | | | | an | |
| NEBS | 3-5=-317/201 | | | | | | | | | | | F. OF M | AISS C | |
| NOTES | a di wa a f ilik ya dia a da di | have enclose 14 | _ | | | | | | | | A | A. A. | 1.50 | |
| Unbalanc this design | ed root live loads have | been considered for | Γ | | | | | | | | B | SCOTT | M. EN | |
| this design of the second secon | I. CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6 signed for wind loads ir studs exposed to wind lard Industry Gable Eniq qualified building desig uirres continuous botton | (3-second gust) DL=6.0psf; h=25ft; (ivelope) exterior zor ; end vertical left an 0 plate grip DOL=1.6 the plane of the tru (normal to the face) d Details as applicat gner as per ANSI/TF m chord bearing | Cat. he; d 60 lss b, ble, PI 1. | | | | | | | | | SEVI NUM PE-20010 | ER BER D18807 | 7 |

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| Job | Truss | Truss Type | Qty | Ply | Lot 137 HM | |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B240103 | V6 | Valley | 1 | 1 | Job Reference (optional) | 165312029 |

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Thu May 02 07:32:21 ID:vBszku21ozNPT?RIzYtJMSyXqDi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



?RIzYtJMSyXqDi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



| Scale = | 1:36.2 |
|---------|--------|
|---------|--------|

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

| Loading FCLL (roof) FCDL SCLL SCDL | (psf) 25.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC2018 | 3/TPI2014 | CSI TC BC WB Matrix-S | 0.21 0.13 0.05 | DEFL Vert(LL) Vert(TL) Horiz(TL) | in n/a n/a 0.01 | (loc) - - 4 | l/defl n/a n/a n/a | L/d 999 999 n/a | PLATES MT20 Weight: 30 lb | GRIP 197/144 FT = 10% | |
|---|--|--|---|---|---|---|---|---|----------------------|-----------------------------|--------------------------|---------------------------------|------------------------------------|----------|
| CDL 10.0 Code IR(UMBER OP CHORD 2x4 SPF No.2 Except* 2-6:2x3 SPF No.2 OT CHORD 2x4 SPF No.2 *Except* 2-6:2x3 SPF No.2 //////////////////////////////////// | | | | Gable studs This truss ha chord live loa * This truss h on the bottor 3-06-00 tall b chord and ar All bearings a Bearing at jo/ designer sho) Provide mec bearing plate 8, 18 lb upliff) Beveled plate surface with) This truss is International | spaced at 4-0-0 oc s been designed for ad nonconcurrent w nas been designed n chord in all areas by 2-00-00 wide will yo other members. are assumed to be int(s) 7 considers p TPI 1 angle to grain uld verify capacity hanical connection o capable of withsta at joint 4 and 136 e or shim required truss chord at joint designed in accord Residential Code s | or a 10.0 vith any for a liv where I fit betw SPF No arallel formula of bear (by oth noding 6 lb uplift to provi (s) 8. lance w sections | D psf bottom other live loa e load of 20.0 a rectangle veen the bottu 0.2. o grain value a. Building ng surface. ers) of truss i 7 lb uplift at j at joint 5. de full bearin ith the 2018 R502.11.1 a | nds. Opsf om to joint g and | | | | | | |
| ORCES | (lb) - Maximum Com Tension | pression/Maximum | LC | AD CASE(S) | Standard | dard Ar | ISI/TPI 1. | | | | | | | |
| FOP CHORD | 1-8=-173/93, 1-2=-1 3-4=-87/53 | 45/114, 2-3=-133/10 | 06, | | | | | | | | | | | |
| BOT CHORD | 7-8=-41/91, 6-7=0/0 4-5=-35/70 | , 2-7=-214/0, 5-6=-3 | 85/70, | | | | | | | | | COLOR | ADD. | |
| NEBS | 3-5=-277/178 | | | | | | | | | | | F OF M | AISS D | |
| IOTES | a diverse filler and a l | have excluded 14 | _ | | | | | | | | A | A | N.S. | |
| Unbalance this design | ea roof live loads have | been considered to | ſ | | | | | | | | B | SCOTT | M. P.Y. | <i>u</i> |
| 2) Wind: AS Vasd=91r II; Exp C; cantilever right expo | CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed issed; Lumber DOL=1.6 | (3-second gust) iDL=6.0psf; h=25ft; (ivelope) exterior zor ; end vertical left an 0 plate grip DOL=1.0 | Cat. ne; d 60 | | | | | | | • | | SEVI | ER Servie | |
| Truss de only. For see Stand or consult Gable rec | signed for wind loads ir studs exposed to wind lard Industry Gable En qualified building design juires continuous bottoo | n the plane of the tru I (normal to the face) d Details as applicat gner as per ANSI/TF m chord bearing. | uss), ble, PI 1. | | | | | | | | Ø | FESSIONA | L ENGL | |

May 3,2024

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| Job | Truss | Truss Type | Qty | Ply | Lot 137 HM | |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B240103 | V7 | Valley | 1 | 1 | Job Reference (optional) | 165312030 |

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Thu May 02 07:32:21 ID:vBszku21ozNPT?RIzYtJMSyXqDi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



9-9-0



9-9-0

Scale = 1:30

| | | i | | | i | | | | | | | | |
|--|---|---|---------------------------------------|--|---|---|--|----------------------------------|----------------------|-----------------------------|--------------------------|---------------------------------|------------------------------------|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 25.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC20 | 18/TPI2014 | CSI TC BC WB Matrix-S | 0.27 0.17 0.06 | DEFL Vert(LL) Vert(TL) Horiz(TL) | in n/a n/a 0.00 | (loc) - - 3 | l/defl n/a n/a n/a | L/d 999 999 n/a | PLATES MT20 Weight: 25 lb | GRIP 197/144 FT = 10% |
| LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS | 2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 Structural wood shea 6-0-0 oc purlins. Rigid ceiling directly bracing. (size) 1=9-9-0, 3 Max Horiz 1=-77 (LC Max Uplift 1=-39 (LC (LC 8) Max Grav 1=205 (LC (LC 1) | athing directly applied applied or 10-0-0 oc 3=9-9-0, 4=9-9-0 4) 8), 3=-48 (LC 9), 4= C 1), 3=205 (LC 1), 4: | d or 5 | * This truss I on the bottor 3-06-00 tall I chord and at All bearings Provide mec bearing plate 1, 48 lb uplif This truss is International R802.10.2 a CASE(S) | has been designe in chord in all are by 2-00-00 wide v by other member are assumed to the hanical connection e capable of withs that joint 3 and 15 designed in accc Residential Cod nd referenced stat Standard | ed for a liv as where will fit betw s. be SPF No on (by oth standing 3 5 lb uplift a ordance w e sections andard AN | e load of 20. a rectangle veen the bott o.2. ers) of truss : 9 lb uplift at j t joint 4. th the 2018 R502.11.1 a ISI/TPI 1. | Opsf om to joint and | | | | | |
| FORCES TOP CHORD BOT CHORD WEBS NOTES | (lb) - Maximum Com Tension 1-2=-153/73, 2-3=-1! 1-4=-15/71, 3-4=-15/ 2-4=-252/64 | pression/Maximum 52/55 /71 | | | | | | | | | | | |

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. 4) Gable requires continuous bottom chord bearing.

5) Gable studs spaced at 4-0-0 oc.

6)

This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



May 3,2024

 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 besign value to dury with with where outputs into design is based only door parameters shown, and is for an individual building design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members 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 **ANS/TPH1 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)



| Job | Truss | Truss Type | Qty | Ply | Lot 137 HM | |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B240103 | V8 | Valley | 1 | 1 | Job Reference (optional) | 165312031 |

ဂု

1-11

2-3-4

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Thu May 02 07:32:21 ID:vBszku21ozNPT?RIzYtJMSyXqDi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



6-9-0

Scale = 1:25.9

| | | | | | | | | | | | | | | _ |
|--|--|--|--|--|---|---|--|--------------------------|----------------------|-----------------------------|--------------------------|--|--|---|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 25.0 10.0 0.0 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC201 | 8/TPI2014 | CSI TC BC WB Matrix-P | 0.15 0.07 0.03 | DEFL Vert(LL) Vert(TL) Horiz(TL) | in n/a n/a 0.00 | (loc) - - 3 | l/defl n/a n/a n/a | L/d 999 999 n/a | PLATES MT20 Weight: 17 lb | GRIP 197/144 FT = 10% | |
| LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD | 2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 Structural wood sl 6-0-0 oc purlins. Rigid ceiling direc bracing. | eathing directly applied or 10-0-0 c | 8) 9) 10 ied or bc L0 | All bearings a Provide mecl bearing plate 1 and 39 lb u 0) This truss is o International R802.10.2 ar DAD CASE(S) | are assumed to b nanical connection capable of withs plift at joint 3. designed in accoor Residential Code do referenced stat Standard | be SPF No on (by othe standing 3 ordance wi e sections andard AN | 0.2 . ers) of truss t 3 lb uplift at j th the 2018 R502.11.1 a ISI/TPI 1. | to oint and | | | | | | |
| REACTIONS | (size) 1=6-9-0 Max Horiz 1=51 (L Max Uplift 1=-33 (I Max Grav 1=148 ((LC 1) | , 3=6-9-0, 4=6-9-0 C 5) LC 8), 3=-39 (LC 9) LC 1), 3=148 (LC 1), | 4=230 | | | | | | | | | | | |
| FORCES | (lb) - Maximum Co Tension | mpression/Maximum | I | | | | | | | | | | | |
| TOP CHORD BOT CHORD WEBS | 1-2=-92/47, 2-3=-8 1-4=-10/43, 3-4=- 2-4=-157/40 | 8/35 0/43 | | | | | | | | | | | | |
| NOTES | | | | | | | | | | | | | | |
| Unbalance this design Wind: ASC Vasd=91n II: Exp C: | ed roof live loads hav n. CE 7-16; Vult=115mj nph; TCDL=6.0psf; E Enclosed: MWFRS (| e been considered fo h (3-second gust) CDL=6.0psf; h=25ft; envelope) exterior zo | or Cat. ne: | | | | | | | | | -51111 | all the second sec | |
| cantilever right expo 3) Truss des | left and right expose sed; Lumber DOL=1 signed for wind loads | d; end vertical left ar 60 plate grip DOL=1 in the plane of the tr od (normal to the face | nd .60 uss | | | | | | | | A | STATE OF M | MISSOLR | |

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

SCOTT M. SEVIER NUMBER PE-2001018807 NUMBER PE-2001018807 May 3,2024

Page: 1

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSITPTI 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)



| Job | Truss | Truss Type | Qty | Ply | Lot 137 HM | |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B240103 | V9 | Valley | 1 | 1 | Job Reference (optional) | 165312032 |

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Thu May 02 07:32:21 ID:vBszku21ozNPT?RIzYtJMSyXqDi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

3-9-0



| Scale = 1:22.2 | | |
|-----------------------|----------------|--|
| Plate Offsets (X, Y): | [2:0-2-0,Edge] | |

| | (, .). [==,= | | | | | | | | | | | |
|--------------------------------|--------------------------------|--------------------------|------------------------------|----------------------|--------------|-------------------|-------|-------|--------|-----|---------------------------------------|-------------|
| Loading | (psf) | Spacing | 2-0-0 | csi | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.03 | Vert(LL) | n/a | () | n/a | 999 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.08 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | Weight: 8 lb | FT = 10% |
| | | | | | | | | | | | 5 | |
| LUMBER | | | Provide me | echanical connect | tion (by oth | ers) of truss | to | | | | | |
| TOP CHORD | 2x4 SPF No.2 | | bearing pla | te capable of with | nstanding 1 | 5 lb uplift at | joint | | | | | |
| BOT CHORD | 2x4 SPF No.2 | | 1 and 15 lt | o uplift at joint 3. | | ith the 2010 | | | | | | |
| BRACING | | | 10) This truss | s designed in acc | cordance w | Ith the 2018 | and | | | | | |
| TOP CHORD | Structural wood she | athing directly applie | ed or R802 10 2 | and referenced st | tandard AN | 191/TDI 1 | anu | | | | | |
| | 3-9-12 oc purlins. | | | Stondard | | 1 01/1111. | | | | | | |
| BOT CHORD | Rigid ceiling directly | applied or 10-0-0 or | |) Stanuaru | | | | | | | | |
| | bracing. | | | | | | | | | | | |
| REACTIONS | (size) 1=3-9-0, 3 | 3=3-9-0 | | | | | | | | | | |
| | Max Horiz 1=-25 (LC | 24) 20) 0.45(100) | | | | | | | | | | |
| | Max Oplint 1=-15 (LC | (10, 3), 3 = -15 (L0, 9) | | | | | | | | | | |
| | | 5 1), 3=128 (LC 1) | | | | | | | | | | |
| FORCES | (Ib) - Maximum Corr Tension | pression/Maximum | | | | | | | | | | |
| TOP CHORD | 1-2=-112/34, 2-3=-1 | 12/34 | | | | | | | | | | |
| BOT CHORD | 1-3=-15/75 | | | | | | | | | | | |
| NOTES | | | | | | | | | | | | |
| 1) Unbalance | ed roof live loads have | been considered for | r | | | | | | | | | |
| this desig | in. | | | | | | | | | | | |
| 2) Wind: AS | CE 7-16; Vult=115mph | (3-second gust) | | | | | | | | | | |
| Vasd=91 | mph; TCDL=6.0psf; BC | DL=6.0psf; h=25ft; 0 | Cat. | | | | | | | | | |
| II; Exp C; | Enclosed; MWFRS (er | nvelope) exterior zor | ie; | | | | | | | | | |
| cantilever | r left and right exposed | ; end vertical left an | d | | | | | | | | | alle |
| right expo | osed; Lumber DOL=1.6 | 0 plate grip DOL=1.0 | 50 | | | | | | | | POF | MISCO |
| 3) Truss de | signed for wind loads it | n the plane of the tru | SS | | | | | | | | A TE | -050.0 |
| CONSTRUCTION | dord Inductry Coble En | d Dotails as applicat | , No | | | | | | | 4 | N. | - Con |
| or consult | t qualified building desi | aner as ner ANSI/TE | ле, И 1 | | | | | | | B | ς' scot | TT M. YE Y |
| Gable rec | nuires continuous hotto | m chord bearing | | | | | | | | 8 | SEV | TER \ Y |
| 5) Gable stu | ids spaced at 4-0-0 oc | in onora boaring. | | | | | | | | 01 | | 1 * 1 |
| This truss | s has been designed fo | r a 10.0 psf bottom | | | | | | | | 0 | 0 | |
| chord live | e load nonconcurrent wi | ith any other live load | ds. | | | | | | | И 🚽 | A A A A A A A A A A A A A A A A A A A | anner 1 |
| 7) * This true | ss has been designed f | or a live load of 20.0 | psf | | | | | | | 47 | DE 200 | 1010007 191 |
| on the bo | ttom chord in all areas | where a rectangle | | | | | | | | N | PE-200 | 101880/ 201 |
| 3-06-00 ta | all by 2-00-00 wide will | fit between the botto | m | | | | | | | Y | 1 Per | 1 SA |
| chord and | d any other members. | | | | | | | | | | SION. | TENS |
| All bearin | igs are assumed to be | SPF No.2 . | | | | | | | | | UNIVI NI | AL P |
| | | | | | | | | | | | -un | |
| | | | | | | | | | | | N | iay 3,2024 |

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 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 toulsable 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, 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)

RELEASE FOR CONSTRUCT AS NOTED ON FLANS RE STRUCTION DEVELOPMEN SERVICES LEE'S' SUMMIT'S MISSOURI 05/24/2024 2:42:18

| Job | Truss | Truss Type | Qty | Ply | Lot 137 HM | |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B240103 | V10 | Valley | 1 | 1 | Job Reference (optional) | 165312033 |

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Thu May 02 07:32:21 ID:vBszku21ozNPT?RIzYtJMSyXqDi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





7-2-8

Scale = 1:28.4

| _oading | (psf) | Spacing | 2-0-0 | | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------------------------|---|---|---------|---|--|----------------------------------|---|-----------|-------|--------|-----|---------------|--|
| FCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | | TC | 0.19 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 197/144 |
| FCDL | 10.0 | Lumber DOL | 1.15 | | BC | 0.10 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | | WB | 0.05 | Horiz(TL) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC201 | 8/TPI2014 | Matrix-P | | | | | | | Weight: 20 lb | FT = 10% |
| LUMBER | 2x4 SPF No.2 2x4 SPF No.2 2x3 SPE No.2 | | 8) | Provide mec bearing plate 4 and 113 lb This truss is | hanical connection capable of withsta uplift at joint 5. | i (by oth anding 2 dance w | ers) of truss t 6 lb uplift at j ith the 2018 | o oint | | | | | |
| THERS | 2x3 SPF No 2 | | 0) | International | Residential Code | sections | R502.11.1 a | ind | | | | | |
| | 273 011 10.2 | | | R802.10.2 a | nd referenced stan | dard AN | ISI/TPI 1. | | | | | | |
| | Structural wood she | athing directly applie | dor LC | DAD CASE(S) | Standard | | | | | | | | |
| | 6-0-0 oc purlins, ex | cept end verticals. | | . , | | | | | | | | | |
| 30T CHORD | Rigid ceiling directly bracing. | applied or 10-0-0 oc | ; | | | | | | | | | | |
| REACTIONS | (size) 1=7-2-8, 4 Max Horiz 1=136 (LC Max Uplift 4=-26 (LC Max Grav 1=82 (LC (LC 1) | 4=7-2-8, 5=7-2-8 C 5) C 8), 5=-113 (LC 8) 16), 4=141 (LC 1), 5 | i=378 | | | | | | | | | | |
| ORCES | (lb) - Maximum Com Tension | pression/Maximum | | | | | | | | | | | |
| FOP CHORD | 1-2=-114/61, 2-3=-1 | 07/44, 3-4=-110/45 | | | | | | | | | | | |
| BOT CHORD | 1-5=-46/35, 4-5=-46 | /35 | | | | | | | | | | | |
| NEBS | 2-5=-294/164 | | | | | | | | | | | | |
| OTES | | | | | | | | | | | | | |
| I) Wind: AS Vasd=91 | CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC | (3-second gust) DL=6.0psf; h=25ft; C | Cat. | | | | | | | | | | |
| n, Exp C; | r left and right exposed | : end vertical left and | е, 1 | | | | | | | | | and | ADD |
| right exp | nsed: Lumber DOI =1.6 | 0 plate grip DOI =1 6 | 30 | | | | | | | | | S OF M | Alexan |
| 2) Truss de | signed for wind loads in | the plane of the tru | ss | | | | | | | | 1 | F.TE | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |
| only. For | studs exposed to wind | (normal to the face) | , | | | | | | | | A | N | New |
| see Stan | dard Industry Gable En | d Details as applicab | ole, | | | | | | | | H | SCOT | M. YAY |
| or consul | t qualified building desig | gner as per ANSI/TP | 11. | | | | | | | | B. | / SEVI | ER \ X |
| Gable red | quires continuous botto | m chord bearing. | | | | | | | | | 10* | | |
| Gable stu | ids spaced at 4-0-0 oc. | | | | | | | | | | | | ~ OALLON / |

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 6) * This truss has been designed for a live load of 20.0psf
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be SPF No.2.

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NUMBER

PE-2001018807

SSIONAL ET

| Job | Truss | Truss Type | Qty | Ply | Lot 137 HM | |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B240103 | V11 | Valley | 1 | 1 | Job Reference (optional) | 165312034 |

4-6-8

Wheeler Lumber, Waverly, KS - 66871,

Run: 8,73 S Apr 25 2024 Print: 8,730 S Apr 25 2024 MiTek Industries, Inc. Thu May 02 07:32:21 ID:vBszku21ozNPT?RIzYtJMSyXqDi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





| Scale | 1 = 1 | :22.1 | |
|-------|-------|-------|--|

| Scale = 1:22.1 | | | | | | | | 1 | | | | | |
|--|--|-----------------------|-----------------|----------|------|-----------|------|-------|--------|-----|---------------|----------|--|
| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | тс | 0.27 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 197/144 | |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.15 | Vert(TL) | n/a | - | n/a | 999 | | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | Weight: 12 lb | FT = 10% | |
| LUMBER TOP CHORD BOT CHORD WEBS | 9) This truss is designed in accordance with the 2018 2x4 SPF No.2 International Residential Code sections R502.11.1 and 2x3 SPF No.2 LOAD CASE(S) | | | | | | | | | | | | |
| TOP CHORD | Structural wood she | athing directly appli | ed or | | | | | | | | | | |

4-6-8

| | 4-7-0 oc p | ourlins, except end verticals. |
|-----------|-------------|----------------------------------|
| BOT CHORD | Rigid ceili | ng directly applied or 10-0-0 oc |
| | bracing. | |
| REACTIONS | (size) | 1=4-6-8, 3=4-6-8 |
| | Max Horiz | 1=80 (LC 5) |
| | Max Uplift | 1=-22 (LC 8), 3=-42 (LC 8) |
| | Max Grav | 1=173 (LC 1), 3=173 (LC 1) |
| FORCES | (lb) - Max | imum Compression/Maximum |
| | Tension | |

TOP CHORD 1-2=-73/48, 2-3=-135/66 BOT CHORD 1-3=-27/21

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing. 3) Gable studs spaced at 4-0-0 oc. 4)
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 6) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom

chord and any other members. 7)

All bearings are assumed to be SPF No.2 . 8)

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 1 and 42 lb uplift at joint 3.



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TION DEVELORMENT SERVICES LEE'S'SUMMIT'SMISSOURI 05/24/2024 2:42:18

| Job | Truss | Truss Type | Qty | Ply | Lot 137 HM | |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B240103 | V12 | Valley | 1 | 1 | Job Reference (optional) | 165312035 |

3-2-8

3-2-8

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Thu May 02 07:32:21 ID:vBszku21ozNPT?RIzYtJMSyXqDi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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| Scale = 1:19.5 | | | | | | | 1 | | | | | |
|---|---|--|---|--|--|--|--------------------------|----------------------|-----------------------------|--------------------------|--------------------------------|------------------------------------|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 25.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC2018/TPI2014 | CSI TC BC WB Matrix-P | 0.11 0.06 0.00 | DEFL Vert(LL) Vert(TL) Horiz(TL) | in n/a n/a 0.00 | (loc) - - 3 | l/defl n/a n/a n/a | L/d 999 999 n/a | PLATES MT20 Weight: 8 lb | GRIP 197/144 FT = 10% |
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD | 2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 Structural wood she 3-3-0 oc purlins, ex Rigid ceiling directly bracing. | athing directly appli cept end verticals. applied or 10-0-0 c | 9) This truss Internatio R802.10.1 LOAD CASE(ed or | is designed in acc nal Residential Co 2 and referenced s S) Standard | cordance wi de sections tandard AN | th the 2018 R502.11.1 ε ISI/TΡΙ 1. | ind | | | | | |
| REACTIONS | (size) 1=3-2-8, 3 Max Horiz 1=53 (LC Max Uplift 1=-15 (LC Max Grav 1=113 (LC | 3=3-2-8 5) 3), 3=-28 (LC 8) 2 1), 3=113 (LC 1) | | | | | | | | | | |
| FORCES | (lb) - Maximum Com Tension 1-2=-48/32, 2-3=-88 | pression/Maximum | | | | | | | | | | |
| NOTES Wind: ASV Vasd=91r II; Exp C; cantilever right expo Truss des only. For see Stanc or consult Gable req Gable stu This truss chord live * This truss | CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed signed for wind loads ir studs exposed to wind dard Industry Gable End c qualified building desig juires continuous bottor ds spaced at 4-0-0 oc. has been designed for load nonconcurrent wi ss has been designed for | (3-second gust) DL=6.0psf; h=25ft; ivelope) exterior zo ; end vertical left ar 0 plate grip DOL=1. h the plane of the trr (normal to the face d Details as applica gner as per ANSI/T m chord bearing. r a 10.0 psf bottom th any other live loa or a live load of 20. | Cat. ne; id .60 uss .), ble, PI 1. ads. 0psf | | | | | | | * | STATE OF STATE SCOT SEV | MISSOURT M. HER |

- 1)
- 2) 3)
- 4)
- 5)
- 6)
- 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

All bearings are assumed to be SPF No.2 . 7)

Provide mechanical connection (by others) of truss to 8) bearing plate capable of withstanding 15 lb uplift at joint 1 and 28 lb uplift at joint 3.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent touls be personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



| Job | Truss | Truss Type | Qty | Ply | Lot 137 HM | |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B240103 | V13 | Valley | 1 | 1 | Job Reference (optional) | 165312036 |

2-11-8

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Thu May 02 07:32:21 ID:vBszku21ozNPT?RIzYtJMSyXqDi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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5-10-8

5-10-8

| Scale = 1 | 1:24.7 |
|-----------|--------|
|-----------|--------|

| Loading | (psi | f) Spacing | 2-0-0 | csi | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--|--|---------------------------------|---|----------|------|-----------|------|------------|--------|-----|--|--|
| TCLL (ro | of) 25. | 0 Plate Grip DOL | 1.15 | тс | 0.52 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 197/144 |
| TCDL | 10. | 0 Lumber DOL | 1.15 | BC | 0.28 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0. | 0* Rep Stress Incr | YES | WB | 0.00 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10. | 0 Code | IRC2018/TPI2014 | Matrix-P | | | | | | | Weight: 15 lb | FT = 10% |
| LUMBER 9) This truss is designed in accordance with the 2018 | | | | | | | | | | | | |
| TOP CH | P CHORD 2x4 SPF No.2 International Residential Code sections R502.11.1 and | | | | | | | | | | | |
| BOT CHO | BOT CHORD 2x4 SPF No.2 | | R802.10.2 and referenced standard ANSI/TPI 1. | | | | | | | | | |
| WEBS | 2x3 SPF No.2 | | LOAD CASE(S) | Standard | | | | | | | | |
| BRACING | | | | | | | | | | | | |
| TOP CHORD Structural wood sheathing directly applied or | | | | | | | | | | | | |
| 5-11-0 UC pumins, except end venticals. | | | | | | | | | | | | |
| bracina. | | | | | | | | | | | | |
| REACTIO | ONS (size) 1=5-1 | 0-8, 3=5-10-8 | | | | | | | | | | |
| | Max Horiz 1=108 | 3 (LC 5) | | | | | | | | | | |
| | Max Uplift 1=-30 | (LC 8), 3=-57 (LC 8) | | | | | | | | | | |
| | Max Grav 1=233 | 3 (LC 1), 3=233 (LC 1) | | | | | | | | | | |
| FORCES (Ib) - Maximum Compression/Maximum | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Notes | | | | | | | | | | | | |
| 1) Wind ASCE 7-16: Vult=115mph (3-second gust) | | | | | | | | | | | | |
| Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. | | | | | | | | | | | | |
| II; Ex | C; Enclosed; MWFRS (envelope) exterior zone; | | | | | | | | | | | |
| canti | ntilever left and right exposed ; end vertical left and | | | | | | | | | | | |
| 2) True | In exposed, Lumber DOL=1.00 plate grip DOL=1.00 | | | | | | | | | | | |
| only. | In use designed to wind loads in the plane of the fluss | | | | | | | | TOP | | | |
| see S | Standard Industry Gable | End Details as applica | ble, | | | | | | | | OF N | AIS C |
| or co | or consult qualified building designer as per ANSI/TPI 1. | | | | | | | | | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | |
| 3) Gable requires continuous bottom chord bearing. | | | | | | | | | | | | |
| 4) Gabl | Gable studs spaced at 4-0-0 oc. | | | | | | | | | | FR Y | |
| chord live load porconcurrent with any other live load s | | | | | | | | | | | | |
| 6) * This truss has been designed for a live load of 20.0psf | | | | | | | | | | 8 | | |
| on the bottom chord in all areas where a rectangle | | | | | | | | | - ener | | | |
| 3-06-00 tall by 2-00-00 wide will fit between the bottom | | | | | | | | DIADOT AND | | | | |
| chord and any other members. | | | | | | | | 1000/201 | | | | |
| 1) All Dealings are assumed to be SFF NO.2. | | | | | | | | | IS B | | | |
| bearing plate capable of withstanding 30 b uplift at joint | | | | | | | LENA | | | | | |
| 1 and | 57 lb uplift at joint 3. | 5 · · · · · · · · · · · · · · · | • | | | | | | | | an | The second secon |
| | | | | | | | | | | | Ma | y 3,2024 |

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ASE FOR CONST **OTED ON PLANS** VELOPMENT SER LEE'S SUMMIT, MISSOURI

05/24/2024

2:42:18

- 19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.