

| RE: P250041-01 - Roof - HM Lot 200<br>Site Information:<br>Project Customer: Clayton Properties Proje<br>Lot/Block: 200 S<br>Model:<br>Address: 1055 SW Fiord Dr<br>City: Lee's Summit S<br>General Truss Engineering Criteria & Desig<br>Drawings Show Special Loading Condition<br>Design Code: IRC2018/TPI2014  | MiTek, Inc.<br>16023 Swingley Ridge Rd.<br>Chesterfield, MO 63017<br>Subdivision: Highland Meadows<br>State: MO<br>gn Loads (Individual Truss Design<br>s):<br>Design Program: MiTek 20/20 8.6<br>Design Program: MiTek 20/20 8.6   |
|--|---|
| Wind Speed: 115 mph  | Floor Load: N/A psf   |
| Roof Load: 45.0 psf<br>Mean Roof Height (feet): 35   | Exposure Category: C  |
| No.Seal#Truss NameDateNo.1171039411A11/29/25352171039412A21/29/25363171039413A31/29/25374171039414A41/29/25385171039415A51/29/25396171039416A61/29/25407171039417A71/29/25418171039418A81/29/25418171039419A91/29/254310171039420A101/29/2543  | Seal#         Truss Name         Date           I71039445         J8         1/29/25           I71039446         J9         1/29/25           I71039447         J10         1/29/25           I71039448         J11         1/29/25           I71039449         J12         1/29/25           I71039450         J13         1/29/25           I71039451         J14         1/29/25           I71039452         J15         1/29/25           I71039453         J16         1/29/25           I71039454         J17         1/29/25           I71039453         J16         1/29/25           I71039454         J17         1/29/25 |
| 11 $171039421$ A11 $1729/25$ 4512 $171039422$ A12 $1/29/25$ 4613 $171039422$ A13 $1/29/25$ 4714 $171039425$ B1 $1/29/25$ 4916 $171039425$ B1 $1/29/25$ 5017 $171039426$ B2 $1/29/25$ 5017 $171039427$ B3 $1/29/25$ 5218 $171039428$ B4 $1/29/25$ 5219 $171039429$ B5 $1/29/25$ 5320 $171039430$ C1 $1/29/25$ 5521 $171039431$ C2 $1/29/25$ 5623 $171039433$ D1 $1/29/25$ 5724 $171039435$ E1 $1/29/25$ 5825 $171039437$ E3 $1/29/25$ 6027 $17039437$ E3 $1/29/25$ 6128 $171039439$ J2 $1/29/25$ 6330 $171039440$ J3 $1/29/25$ 6431 $17039440$ J3 $1/29/25$ 6633 $171039443$ J6 $1/29/25$ 34 $171039444$ J7 $1/29/25$ | $\begin{array}{llllllllllllllllllllllllllllllllllll$  |
| The truss drawing(s) referenced above have been<br>MiTek USA, Inc. under my direct supervision ba  | prepared by<br>sed on the parameters  |
| provided by Premier Building Supply (Springhill,<br>Truss Design Engineer's Name: Sevier. Scot   | KS)20300 W 207th Street. SCOTT M.   |

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. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 02/04/2025 11:09:47

Sevier, Scott

| Job        | Truss | Truss Type | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P250041-01 | A1    | Hip Girder | 1   | 2   | Job Reference (optional) | 171039411 |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 28 08:55:47 ID:oV\_VxRczohk7XG80PcgnR?zb2L6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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ΓΙΟΝ

IEW

January 29,2025



Scale = 1:72.4

| Plate Offsets (   | ate Offsets (X, Y): [2:0-1-1,0-4-10], [5:0-5-4,Edge], [11:0-5-4,Edge], [13:Edge,0-1-11], [15:0-2-8,0-2-0], [16:0-1-8,0-2-4], [18:0-2-8,0-2-0], [21:0-4-0,0-2-4], [22:0-2-8,0-2-0]       |   |                                       |  |  |  |   |                              |   |   |  |  |  |   |
|---|---|---|---------------------------------------|--|--|--|---|------------------------------|---|---|--|--|--|---|
| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL  | (psf)<br>25.0<br>10.0<br>0.0<br>10.0  | <b>Spacing</b><br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code   | 2-0-0<br>1.15<br>1.15<br>NO<br>IRC201 | 8/TPI2014  | <b>CSI</b><br>TC<br>BC<br>WB<br>Matrix-S   | 0.74<br>0.45<br>0.90   | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)  | in<br>-0.47<br>-0.81<br>0.12 | (loc)<br>18-19<br>18-19<br>13   | l/defl<br>>999<br>>588<br>n/a   | L/d<br>240<br>180<br>n/a   | PLATES<br>MT20<br>MT18HS<br>Weight: 470 lb   | <b>GRIP</b><br>197/144<br>244/190<br>FT = 20%  |   |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>SLIDER<br>BRACING<br>TOP CHORD<br>BOT CHORD | 2x4 SP 2400F 2.0E<br>2x8 SP 2400F 2.0E<br>2x3 SPF No.2<br>Left 2x4 SP No.2<br>Structural wood she<br>4-5-7 oc purlins, ex<br>2-0-0 oc purlins (3-1<br>Rigid ceiling directly<br>bracing | 1-7-13<br>eathing directly appli<br>cept<br>11-13 max.): 5-11.<br>r applied or 10-0-0 o                             | 1)<br>ed or 2)<br>oc                  | 2-ply truss to<br>(0.131"x3") r<br>Top chords o<br>oc.<br>Bottom chorn<br>staggered at<br>Web connec<br>All loads are<br>except if not<br>CASE(S) see<br>provided to c | be connected in<br>aails as follows:<br>connected as fol<br>ds connected as<br>0-9-0 oc.<br>ted as follows: 2<br>considered equed<br>as front (F) o<br>ction. Ply to ply<br>distribute only lo   | together wi<br>llows: 2x4<br>s follows: 2<br>2x3 - 1 row<br>Jally applie<br>or back (B)<br>connection<br>ads noted | th 10d<br>- 1 row at 0-9<br>x8 - 2 rows<br>at 0-9-0 oc.<br>d to all plies,<br>face in the L0<br>s have been<br>as (F) or (B), | )-0<br>OAD                   | 12) Use<br>Tru<br>2-6<br>bao<br>13) Fill<br>LOAD (<br>1) De<br>Pl<br>Ur | e Simpso<br>ss) or ec<br>-2 from t<br>k face o<br>all nail h<br>CASE(S<br>ead + Ro<br>ate Incre<br>hiform Lo<br>Vert: 1-3 | on Stro<br>quivale<br>he left<br>f botton<br>oles w<br><b>)</b> Stan<br>oof Live<br>ease=1<br>bads (II<br>5=-70,<br>ted Lo | ng-Tie LUS24 (4<br>nt spaced at 2-0<br>end to 37-5-14 tr<br>m chord.<br>here hanger is ir<br>ndard<br>9 (balanced): Lur<br>.15<br>5-11=-70, 11-14<br>arts (Ih) | -10d Girder, 2-10d<br>0 oc max. starting at<br>5 connect truss(es) to<br>1 contact with lumber.<br>nber Increase=1.15,<br>=-70, 2-13=-20 |   |
| REACTIONS   | (size) 2=0-5-8,<br>Max Horiz 2=-68 (LC<br>Max Uplift 2=-1415 (<br>Max Grav 2=5365 (I  | 13=0-5-8<br>C 17)<br>(LC 9), 13=-1342 (L(<br>LC 1), 13=5138 (LC   | 3)<br>C 8) 4)<br>1)                   | unless other<br>Unbalanced<br>this design.<br>Wind: ASCE   | Concentrated Loads (lb)         Concentrated Loads (lb)           unless otherwise indicated.         Vert: 22=-658 (B), 15=-329 (B), 27=-433 (Concentrated Loads (lb)           Unbalanced roof live loads have been considered for this design.         28=-329 (B), 29=-329 (B), 30=-329 (B), 33=-329 (B), 33=-329 (B), 33=-329 (B), 38=-329 (B), 38=- |  |   |                              |   |   |  |  | , 27=-433 (B),<br>329 (B), 31=-329 (B),<br>329 (B), 35=-329 (B),<br>329 (B), 39=-329 (B),  |   |
| FORCES  | (lb) - Maximum Corr<br>Tension<br>1-2=0/11, 2-4=-8945<br>5-6=-12718/3572, 6<br>7-9=-15014/4213, 9<br>10-11=-12478/3494<br>12-13=-8690/2331.   | hpression/Maximum<br>5/2424, 4-5=-9382/2<br>-7=-12716/3570,<br>-10=-12476/3492,<br>, 11-12=-9041/2475<br>13-14=0/11 | 2588,<br>;,                           | Ke=1.00; Ca<br>exterior zone<br>Interior (1) 4<br>Interior (1) 1<br>40-10-8 zone<br>vertical left a<br>forces & MW   | t. II; Exp C; Ence<br>and C-C Exter<br>-1-8 to 6-5-6, Ex<br>3-6-4 to 33-6-10<br>e; cantilever left<br>ind right expose<br>(CRS for reaction  | , BCDL=0.<br>closed; MW<br>ior(2E) -0<br>kterior(2R)<br>), Exterior(2R)<br>and right e<br>d;C-C for r              | (FRS (envelo<br>10-8 to 4-1-8,<br>6-5-6 to 13-6<br>2E) 33-6-10 t<br>exposed ; enc<br>nembers and                              | pe)<br>5-4,<br>co<br>d       |   | 40=-329   | 9 (B), 4   | 1=-329 (B), 42=-   | 329 (B), 43=-433 (B)   |   |
| BOT CHORD   | 2-22=-2074/7579, 2<br>19-21=-4211/15159<br>16-18=-4152/15014<br>13-15=-1932/7290  | 1-22=-2306/8438,<br>, 18-19=-4211/1515<br>, 15-16=-2145/8092  | 9, 5)<br>, 6)<br>7)                   | DOL=1.60 pl<br>Provide adec<br>All plates are<br>This truss ba   | late grip DOL=1<br>quate drainage t<br>MT20 plates u   | .60<br>to prevent<br>nless other   | water ponding<br>wise indicate  | g.<br>ed.                    |   |   |  | TE OF I  | MISSO  |   |
| WEBS  | 5-22=-283/966, 11-<br>5-21=-1482/5137, 1<br>6-21=-475/203, 7-2'<br>7-19=-289/1212, 7-<br>9-18=-295/1223, 9-<br>10-16=-492/208, 12<br>4-22=-333/1170                                     | 15=-236/865,<br>1-16=-1527/5265,<br>1=-2921/845,<br>18=-215/70,<br>16=-3034/882,<br>-15=-310/1103,                  | 8)<br>9)<br>10                        | chord live loa<br>All bearings<br>capacity of 8<br>Provide mec<br>bearing plate<br>joint 2 and 1<br>) This truss is  | ad nonconcurren<br>are assumed to<br>05 psi.<br>hanical connect<br>capable of with<br>342 lb uplift at jo<br>designed in acc   | nt with any<br>be SP 240<br>tion (by oth<br>histanding 1<br>pint 13.<br>cordance w                                 | other live loa<br>00F 2.0E crus<br>ers) of truss<br>(415 lb uplift)<br>ith the 2018   | ads.<br>shing<br>to<br>at    |   | đ   |  | SCOT<br>SEV.   | I M.<br>IER<br>Server  | 7 |
| NOTES   |   |   | 11                                    | International<br>R802.10.2 a<br>) Graphical pu<br>or the orienta   | Residential Coo<br>nd referenced s<br>Irlin representati<br>ation of the purli   | de sections<br>tandard AN<br>ion does no<br>in along the   | S R502.11.1 a<br>NSI/TPI 1.<br>ot depict the set top and/or   | and<br>size                  |   |   | A.   | PE-2001  | 018807   |   |

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

 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.sbcscomponents.com) DEVELOPMENT SERVICES LEE'S'SUMMIT'SMISSOURI

| Job        | Truss | Truss Type | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P250041-01 | A2    | Hip        | 1   | 1   | Job Reference (optional) | 171039412 |

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40-10-8 0-10-8 4-2-3 40-0-0 8-1-6 14-0-1 20-0-0 25-11-15 31-10-10 35-9-13 4-2-3 3-11-3 5-10-11 5-11-15 5-11-15 5-10-11 3-11-3 4-2-3 3x4= 3x4= 3x6= 3x4= 6<sup>12</sup> 5x5= 5x5= 0-1-10 -10 2 4 5 22 6 7 23 8 9 4-9-1  $\boxtimes$ \_ 4x6 🞜 4x6 👟 3 10 4-9-14 4-8-1 4-8-1 7x8= <sup>24</sup> 11 21 2 12 0-0-13 + + 19 18 17 16 15 14 7x8= 3x8= MT18HS 3x10 = 3x4= 3x8= 3x4= MT18HS 3x10 = 8-0-2 16-0-1 23-11-15 31-11-14 40-0-0 8-0-2 7-11-15 7-11-15 7-11-15 8-0-2

#### Scale = 1:72.6

| Plate Offsets (X, Y): [2:Edge,0-2-8], [13:Edge,0-2-8] |  |
|---|--|
|---|--|

| 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                     | 0.67      | Vert(LL)        | -0.31 | 16-17 | >999   | 240       | MT20           | 197/144  |
| TCDL         | 10.0                               | Lumber DOL                        | 1.15              |  | BC                     | 0.42      | Vert(CT)        | -0.59 | 16-17 | >803   | 180       | MT18HS         | 244/190  |
| BCLL         | 0.0                                | Rep Stress Incr                   | YES               |  | WB                     | 0.78      | Horz(CT)        | 0.15  | 13    | n/a    | n/a       |                |  |
| BCDL         | 10.0                               | Code                              | IRC201            | 8/TPI2014  | Matrix-S               |           |                 |       |       |        |           | Weight: 176 lb | FT = 20%   |
| LUMBER       |                                    |                                   | 2)                | Wind: ASCE   | 7-16; Vult=115mpl      | h (3-sec  | ond gust)       |       |       |        |           |                |  |
| TOP CHORD    | 2x4 SP No.2                        |                                   |                   | Vasd=91mpl   | ; TCDL=6.0psf; B0      | DL=6.     | Dpsf; h=35ft;   |       |       |        |           |                |  |
| BOT CHORD    | 2x4 SP 2400F 2.0E                  |                                   |                   | Ke=1.00; Ca  | t. II; Exp C; Enclose  | ed; MW    | FRS (envelo     | pe)   |       |        |           |                |  |
| WEBS         | 2x3 SPF No.2 *Exce                 | pt* 20-2,13-11:2x4 S              | P                 | exterior zone  | and C-C Exterior       | 2E) -0-1  | 0-8 to 4-0-7,   |       |       |        |           |                |  |
|              | No.2                               | -                                 |                   | Interior (1) 4-0-7 to 8-1-6, Exterior(2R) 8-1-6 to 15-2-4, |                        |           |                 |       |       |        |           |                |  |
| BRACING      |                                    |                                   |                   | Interior (1) 15-2-4 to 31-10-10, Exterior(2R) 31-10-10 to  |                        |           |                 |       |       |        |           |                |  |
| TOP CHORD    | Structural wood she                | athing directly applie            | d or              | 38-11-8, Inte  | rior (1) 38-11-8 to    | 40-10-8   | zone; cantile   | ever  |       |        |           |                |  |
|              | 3-1-2 oc purlins, ex               | cept end verticals, ar            | nd                | left and right   | exposed ; end ver      | ical left | and right       | -     |       |        |           |                |  |
|              | 2-0-0 oc purlins (2-5              | i-8 max.): 4-9.                   |                   | exposed;C-C  | ior members and        | 1 60 pl   | x IVIVVFRS 10   | ſ     |       |        |           |                |  |
| BOT CHORD    | Rigid ceiling directly<br>bracing. | applied or 9-9-7 oc               |                   | DOL=1.60   | own; Lumber DOL=       | = 1.60 pi | ate grip        |       |       |        |           |                |  |
| WEBS         | 1 Row at midpt                     | 3-20, 10-13, 5-19, 8-             | ·14 <sup>3)</sup> | Provide adec   | juate drainage to p    | revent    | vater pondin    | g.    |       |        |           |                |  |
| REACTIONS    | (size) 13=0-5-8,                   | 20=0-5-8                          | 4)                | All plates are   | M120 plates unles      | ss other  | wise indicate   | ed.   |       |        |           |                |  |
|              | Max Horiz 20=-82 (L                | C 10)                             | 5)                | I his truss ha   | s been designed to     | ora 10.0  | ) pst bottom    | ala   |       |        |           |                |  |
|              | Max Uplift 13=-249 (               | LC 8), 20=-249 (LC 9              | 9) e)             | All boorings   | a nonconcurrent w      | Ann any   |                 | ius.  |       |        |           |                |  |
|              | Max Grav 13=1858                   | (LC 1), 20=1858 (LC               | 1) 0)             | capacity of 8  | ne assumed to be       | 3F 240    | OF 2.0E CIUS    | sning |       |        |           |                |  |
| FORCES       | (lb) - Maximum Com                 | pression/Maximum                  | 7)                | Provide med  | nanical connection     | (by oth   | ers) of truss t | to    |       |        |           |                |  |
|              | Tension                            |                                   | .,                | bearing plate  | capable of withsta     | indina 2  | 49 lb uplift a  | t     |       |        |           |                |  |
| TOP CHORD    | 1-2=0/32, 2-3=-718/                | 133, 3-4=-2942/492,               |                   | joint 20 and 2   | 249 lb uplift at joint | 13.       |                 |       |       |        |           |                |  |
|              | 4-5=-2578/458, 5-6=                | -3881/708,                        | 8)                | ,<br>This truss is   | designed in accord     | lance w   | ith the 2018    |       |       |        |           |                |  |
|              | 6-8=-3881/708, 8-9=                | -2578/458,                        |                   | International  | Residential Code       | sections  | R502.11.1 a     | and   |       |        |           |                |  |
|              | 9-10=-2942/492, 10-                | -11=-718/133,                     |                   | R802.10.2 a  | nd referenced stan     | dard AN   | ISI/TPI 1.      |       |       |        |           |                |  |
|              | 11-12=0/32, 2-20=-5                | 542/169, 11-13=-542/              | (169 9)           | Graphical pu   | rlin representation    | does no   | ot depict the   | size  |       |        |           |                | Th   |
| BOT CHORD    | 19-20=-426/2521, 17                | 7-19=-663/3714,                   |                   | or the orienta   | tion of the purlin a   | long the  | top and/or      |       |       |        |           | OF N           | ALC AL   |
|              | 16-17=-725/4068, 14                | 4-16=-623/3714,                   |                   | bottom chord   |                        |           |                 |       |       |        |           | ALE OF I       | 11SS   |
|              | 13-14=-354/2521                    | 00/044                            | LC                | DAD CASE(S)  | Standard               |           |                 |       |       |        | 4         |                | 1.5  |
| WEB5         | 4-19=-99/941, 9-14=                | 99/941,<br>42 - 2211/202          |                   |  |                        |           |                 |       |       |        | A         | SCOTT          | M. YP.V.   |
|              | 3-20=-2311/302, 10-                | -13=-2311/302,<br>150/263 5-1712/ | 112               |  |                        |           |                 |       |       |        | .8        | SEVI           | ER VV  |
|              | 5-19=-1477/372 6-1                 | 7=-330/144                        | ++ <b>z</b> ,     |  |                        |           |                 |       |       |        | 9 4       | -/             | ···· \ <b>↓</b> \  |
|              | 6-16=-330/144 8-16                 | S=-12/442                         |                   |  |                        |           |                 |       |       |        | Zan       |                | 0  |
|              | 8-14=-1477/372                     | · · -/ · ·,                       |                   |  |                        |           |                 |       |       |        | <b>NX</b> | #13            | · Jan 1  |
| NOTES        |                                    |                                   |                   |  |                        |           |                 |       |       |        |           | NUM            | and the second s |
| 1) Unbalance | ed roof live loads have            | been considered for               |                   |  |                        |           |                 |       |       |        | N         | ON PE-20010    | 018807   |
| the states   | -                                  |                                   |                   |  |                        |           |                 |       |       |        | N         | P.I.           | 120  |

this design.

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| Job        | Truss | Truss Type | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P250041-01 | A3    | Нір        | 1   | 1   | Job Reference (optional) | 171039413 |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 28 08:55:48 ID:9SnO\_8g5cDMQe20zB9Gy82zb2L1-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

q3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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#### Scale = 1:72.8

### Plate Offsets (X, Y): [2:Edge,0-2-8], [13:Edge,0-2-8]

| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL                      | (psf)<br>25.0<br>10.0<br>0.0<br>10.0   | <b>Spacing</b><br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code  | 2-0-0<br>1.15<br>1.15<br>YES<br>IRC201 | 8/TPI2014   | CSI<br>TC<br>BC<br>WB<br>Matrix-S  | 0.60<br>0.98<br>0.73  | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)  | in<br>-0.28<br>-0.55<br>0.19 | (loc)<br>16-17<br>16-17<br>13 | l/defl<br>>999<br>>865<br>n/a | L/d<br>240<br>180<br>n/a | PLATES<br>MT20<br>Weight: 182 lb | <b>GRIP</b><br>197/144<br>FT = 20% |
|---|--|--|--|---|--|---|---|------------------------------|-------------------------------|-------------------------------|--------------------------|----------------------------------|------------------------------------|
| TOP CHORD<br>BOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>BOT CHORD | 2x4 SP No.2<br>2x4 SP No.2<br>2x3 SPF No.2 *Exce<br>2400F 2.0E<br>Structural wood she<br>2-8-10 oc purlins, e<br>2-0-0 oc purlins (2-1<br>Rigid ceiling directly | pt* 20-2,13-11:2x4 S<br>athing directly applie<br>xcept end verticals, a<br>1-5 max.): 4-9.<br>applied or 2-2-0 oc | 2)<br>SP<br>d or<br>and                | Vasd=91mpl<br>Ke=1.00; Ca<br>exterior zone<br>Interior (1) 4<br>Interior (1) 1<br>37-3-8, Inter<br>and right exp<br>exposed;C-C<br>reactions sh | r-r6, volt=113h<br>; TCDL=6.0psf;<br>t. II; Exp C; Enclc<br>and C-C Exteric<br>c-1-8 to 9-9-6, Ext<br>6-10-4 to 30-2-10<br>ior (1) 37-3-8 to 4<br>oosed ; end vertic<br>C for members an<br>own; Lumber DO | BCDL=6.0<br>BCDL=6.0<br>Dosed; MW<br>Dr(2E) -0-1<br>erior(2R)<br>D, Exterior<br>D, D, D | Dipsf; h=35ft;<br>FRS (envelo)<br>10-8 to 4-1-8,<br>9-9-6 to 16-1<br>(2R) 30-2-10<br>one; cantileve<br>I right<br>& MWFRS for<br>ate grip | pe)<br>0-4,<br>to<br>er left |                               |                               |                          |                                  |                                    |
| WEBS<br>REACTIONS   | bracing.<br>1 Row at midpt<br>(size) 13=0-5-8,<br>Max Horiz 20=-93 (L<br>Max Uplift 13=-214 (<br>Max Grav 13=1858  | 3-20, 10-13, 5-19, 8-<br>20=0-5-8<br>C 10)<br>LC 8), 20=-214 (LC 9<br>(LC 1), 20=1858 (LC                          | -14 3)<br>4)<br>5)<br>1) 6)            | DOL=1.60<br>Provide adeo<br>This truss ha<br>chord live loa<br>All bearings<br>capacity of 5<br>Provide med                                     | quate drainage to<br>as been designed<br>ad nonconcurrent<br>are assumed to b<br>65 psi.<br>hanical connection   | for a 10.0<br>with any<br>oe SP No.   | water ponding<br>) psf bottom<br>other live loa<br>2 crushing<br>ers) of truss t  | g.<br>Ids.                   |                               |                               |                          |                                  |                                    |
| FORCES  | (lb) - Maximum Com<br>Tension  | pression/Maximum   | 0)                                     | bearing plate   | e capable of withs   | standing 2  | 14 lb uplift at   | t                            |                               |                               |                          |                                  |                                    |
| TOP CHORD   | 1-2=0/32, 2-3=-828/<br>4-5=-2493/446, 5-6=<br>6-8=-3293/561, 8-9=<br>9-10=-2866/465, 10-<br>11-12=0/32, 2-20=-6  | 122, 3-4=-2866/465,<br>3293/561,<br>2493/446,<br>-11=-828/122,<br>503/180, 11-13=-603/                             | 7)<br>(180                             | This truss is<br>International<br>R802.10.2 a<br>Graphical pu<br>or the orienta   | designed in acco<br>Residential Code<br>nd referenced sta<br>Irlin representation<br>ation of the purlin   | andard AN<br>andard AN<br>andorg the<br>along the   | ith the 2018<br>R502.11.1 a<br>ISI/TPI 1.<br>ot depict the s<br>top and/or  | and<br>size                  |                               |                               |                          |                                  |                                    |
| BOT CHORD   | 19-20=-398/2564, 17<br>16-17=-534/3411, 14<br>13-14=-360/2564  | 7-19=-501/3191,<br>4-16=-460/3191,   | LC                                     | bottom chord<br>DAD CASE(S)   | d.<br>Standard   | along the   |   |                              |                               |                               | - 1                      | TE OF M                          | AISSO                              |
| WEBS  | 4-19=-86/914, 9-14=<br>3-20=-2229/400, 10-<br>3-19=-105/211, 10-1<br>5-17=-25/382, 5-19=<br>6-17=-281/120, 6-16<br>8-16=-25/382, 8-14=                           | 85/914,<br>-13=-2229/400,<br>4=-106/211,<br>1081/287,<br>5=-281/120,<br>1081/287                                   |  |   |  |   |   |                              |                               |                               | R                        | SCOT<br>SEVI                     | ER<br>Service                      |
| NOTES   | od roof live loads have  | been considered for  |  |   |  |   |   |                              |                               |                               | 87                       | PE-2001                          | 018807 EA                          |
|   | eu roor live loaus flave   | Deen considered IOI  |  |   |  |   |   |                              |                               |                               | N                        | N.                               | 124                                |

this design.

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)

RELEASE OR STRUCTION AS NOTED ON LANS REVIEW DEVELORMENT SERVICES LEE'S SUMMIT'S MISSOURI 02/04/2025 11:09:47

E

January 29,2025

SSIONAL

| Job        | Truss | Truss Type | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P250041-01 | A4    | Нір        | 1   | 1   | Job Reference (optional) | 171039414 |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 28 08:55:48 ID:dfLmCUhkNXUHGCbAltnBhFzb2L0-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

-0-10-8 40-10-8 5-9-15 11-5-6 20-0-0 28-6-10 34-2-1 40-0-0 0-10-8 5-9-15 5-7-7 8-6-10 8-6-10 5-7-7 5-9-15 0-10-8 5x5= MT18HS 3x10 = 5x5= 3x8= 21 🖾 0-1-10 1-10 H 4 5 22 🖂 6 6-5-11 612 61 3x4 🞜 3x4 👟 3 8 6-5-14 6-4-1 6-4-1 23 20 9 0-6-0 10 N 74 49 П X 18 17 16 15 14 13 12 7x8= 7x8= 4x6 =3x8= 1.5x4 u 3x8= 4x6 =4x6 =4x6 =20-0-0 28-7-14 5-9-15 11-4-2 34-2-1 40-0-0 5-9-15 5-6-3 8-7-14 8-7-14 5-6-3 5-9-15

#### Scale = 1:73

| Plate Offsets (  | (X, Y): [11:Edge,0-5-8   | 3], [12:0-2-8,0-2-0], [18   | 8:0-2-8,0-2  | 2-0], [19:Edge,   | 0-5-8]   |   |  |  |                            |                               |                          |   |   |
|--|--|---|--|---|--|---|--|--|----------------------------|-------------------------------|--------------------------|---|---|
| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL   | (psf)<br>25.0<br>10.0<br>0.0<br>10.0   | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code  | 2-0-0<br>1.15<br>1.15<br>YES<br>IRC2018  | 8/TPI2014   | CSI<br>TC<br>BC<br>WB<br>Matrix-S  | 0.72<br>0.96<br>0.95  | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)   | in<br>-0.24<br>-0.49<br>0.14                                       | (loc)<br>15<br>13-15<br>11 | l/defl<br>>999<br>>976<br>n/a | L/d<br>240<br>180<br>n/a | <b>PLATES</b><br>MT20<br>MT18HS<br>Weight: 182 lb | <b>GRIP</b><br>197/144<br>244/190<br>FT = 20% |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>FORCES<br>TOP CHORD<br>BOT CHORD<br>BOT CHORD<br>WEBS | 2x4 SP No.2 *Excep<br>2.0E<br>2x4 SP No.2<br>2x3 SPF No.2 *Exce<br>No.2<br>Structural wood she<br>2-9-5 oc purlins, ex<br>2-0-0 oc purlins (4-0<br>Rigid ceiling directly<br>bracing.<br>1 Row at midpt<br>(size) 11=0-5-8,<br>Max Horiz 19=-105 (<br>Max Uplift 11=-216 (<br>Max Grav 11=1858<br>(lb) - Maximum Com<br>Tension<br>1-2=0/32, 2-3=-3033<br>4-5=-2397/468, 5-7=<br>7-8=-2767/479, 8-9=<br>2-19=-1784/361, 9-1<br>18-19=-209/622, 17<br>15-17=-400/3040, 13<br>12-13=-330/2623, 1<br>3-18=-106/90, 3-17=<br>5-17=-932/236, 5-15<br>7-13=-51/737, 8-13=<br>2-18=-240/2011, 9-1 | ot* 4-6,6-7:2x4 SP 24(<br>ept* 19-2,11-9:2x4 SP<br>eathing directly applied<br>cept end verticals, an<br>-6 max.): 4-7.<br>applied or 2-2-0 oc<br>5-17, 5-13<br>, 19=0-5-8<br>(LC 10)<br>(LC 13), 19=-216 (LC<br>(LC 1), 19=1858 (LC<br>npression/Maximum<br>8/481, 3-4=-2765/478<br>e-2398/466,<br>e-3032/478, 9-10=0/3<br>11=-1784/363<br>-18=-359/2625,<br>3-15=-400/3040,<br>1-12=-122/626<br>e-273/197, 4-17=-53/7<br>5=0/364, 5-13=-928/2<br>e-269/196, 8-12=-105<br>12=-236/2006 | 2)<br>00F<br>d or<br>d or<br>12)<br>6)<br>1)<br>7)<br>8)<br>2,<br>9)<br>743,<br>743,<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20<br>1/20 | Wind: ASCE<br>Vasd=91mpf<br>Ke=1.00; Ca<br>exterior zone<br>Interior (1) 4<br>Interior (1) 14<br>35-7-8, Interi<br>and right exp<br>exposed;C-C<br>reactions shot<br>DOL=1.60<br>Provide adec<br>All plates are<br>This truss ha<br>chord live loa<br>All bearing si<br>capacity of 5<br>Provide mec<br>bearing plate<br>joint 19 and 2<br>This truss is<br>International<br>R802.10.2 ar<br>Graphical pu<br>or the orienta<br>bottom chorc | 7-16; Vult=115mp<br>; TCDL=6.0psf; B<br>t. II; Exp C; Enclos<br>and C-C Exterior<br>1-8 to 11-5-6, Ext<br>3-6-4 to 28-6-10, E<br>or (1) 35-7-8 to 40<br>osed ; end vertical<br>for members and<br>own; Lumber DOL-<br>guate drainage to p<br>MT20 plates unle<br>s been designed f<br>ad nonconcurrent vare<br>assumed to be<br>65 psi.<br>hanical connectior<br>capable of withst<br>216 Ib uplift at joind<br>designed in accorre<br>Residential Code<br>nd referenced star<br>rlin representation<br>ation of the purlin at<br>Standard | bh (3-sec<br>CDL=6.0<br>sed; MW<br>(2E) -0-1<br>erior(2R)<br>Exterior(2<br>)-10-8 zc<br>il left and<br>forces &<br>=1.60 pla<br>prevent to<br>ass other<br>for a 10.0<br>with any<br>⇒ SP No.<br>h (by oth<br>anding 2<br>t 11.<br>dance to<br>sections<br>ndard AN<br>a does no<br>along the | ond gust)<br>Dpsf; h=35ft;<br>FRS (envelo<br>0-8 to 4-1-8,<br>11-5-6 to 18<br>R) 28-6-10 t<br>ne; cantileve<br>I right<br>MWFRS for<br>ate grip<br>vater ponding<br>wise indicate<br>0 psf bottom<br>other live loa<br>2 crushing<br>ers) of truss f<br>16 lb uplift at<br>th the 2018<br>R502.11.1 a<br>SI/TPI 1.<br>t depict the s<br>top and/or | pe)<br>3-6-4,<br>o<br>rrleft<br>r<br>g.<br>d.<br>ds.<br>to<br>size |                            |                               |                          | STATE OF M<br>STATE SCOTT<br>SEVI                 | MISSOUR<br>ER<br>ER                           |

1) Unbalanced roof live loads have been considered for

this design.



January 29,2025

E

NUMBER

PE-2001018807

SSIONAL

C

 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 | Roof - HM Lot 200        |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P250041-01 | A5    | Нір        | 1   | 1   | Job Reference (optional) | 171039415 |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 28 08:55:48 ID:dfLmCUhkNXUHGCbAltnBhFzb2L0-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



#### Scale = 1:73.2

NOTES

this design.

| Plate Offsets (X, Y): [10:Edge,0-5-8], [11:0-2-8,0-2-0], [17:0-2-8,0-2-0], [18:Edge,0-5-8] |  |  |   |   |  |  |                              |                            |                               |                          |                |                        |  |
|--|--|--|---|---|--|--|------------------------------|----------------------------|-------------------------------|--------------------------|----------------|------------------------|--|
| Loading<br>TCLL (roof)<br>TCDL<br>BCLL   | (psf)<br>25.0<br>10.0<br>0.0   | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr             | 2-0-0<br>1.15<br>1.15<br>YES  | CSI<br>TC<br>BC<br>WB   | 0.90<br>0.77<br>0.67   | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)   | in<br>-0.21<br>-0.41<br>0.13 | (loc)<br>14<br>14-16<br>10 | l/defl<br>>999<br>>999<br>n/a | L/d<br>240<br>180<br>n/a | PLATES<br>MT20 | <b>GRIP</b><br>197/144 |  |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD                           | 2x4 SP No.2<br>2x4 SP No.2<br>2x3 SPF No.2 *Exce<br>No.2<br>Structural wood shere<br>except end verticals,<br>(2-2-0 max.): 4-6. | pt* 18-2,10-8:2x4 SF<br>athing directly applie<br>and 2-0-0 oc purlins | 2) Wind: ASCE<br>Vasd=91mp<br>Ke=1.00; Cz<br>exterior zon<br>Interior (1) 4<br>20-0-0, Inter<br>d, 26-10-10 to<br>zone; cantilé<br>and right ex | 7-16; Vult=11<br>h; TCDL=6.0ps<br>t. II; Exp C; Ext<br>e and C-C Ext<br>-1-8 to 13-1-6,<br>ior (1) 20-0-0 t<br>33-11-8, Interior<br>ever left and rig<br>possed;C-C for i | 5mph (3-sec<br>sf; BCDL=6.<br>hclosed; MW<br>prior(2E) -0-1<br>Exterior(2R<br>o 26-10-10,<br>or (1) 33-11-<br>ht exposed<br>members an | ond gust)<br>Dpsf; h=35ft;<br>FRS (envelo<br>0-8 to 4-1-8<br>) 13-1-6 to<br>Exterior(2R)<br>8 to 40-10-8<br>c end vertical<br>d forces & | ope)<br>,<br>I left          |                            |                               |                          |                |                        |  |

| BOT CHORD | Rigid ceiling directly applied or 9-10-1 oc |  |  |  |  |  |  |  |  |  |
|-----------|---|--|--|--|--|--|--|--|--|--|
|           | bracing.                                    |  |  |  |  |  |  |  |  |  |
| WEBS      | 1 Row at midpt 5-16, 5-12                   |  |  |  |  |  |  |  |  |  |
| REACTIONS | (size) 10=0-5-8, 18=0-5-8                   |  |  |  |  |  |  |  |  |  |
|           | Max Horiz 18=116 (LC 11)                    |  |  |  |  |  |  |  |  |  |
|           | Max Uplift 10=-235 (LC 13), 18=-235 (LC 12) |  |  |  |  |  |  |  |  |  |
|           | Max Grav 10=1858 (LC 1), 18=1858 (LC 1)     |  |  |  |  |  |  |  |  |  |
| FORCES    | (lb) - Maximum Compression/Maximum          |  |  |  |  |  |  |  |  |  |
|           | Tension                                     |  |  |  |  |  |  |  |  |  |
| TOP CHORD | 1-2=0/32, 2-3=-3058/484, 3-4=-2646/477,     |  |  |  |  |  |  |  |  |  |
|           | 4-5=-2272/472, 5-6=-2272/472,               |  |  |  |  |  |  |  |  |  |
|           | 6-7=-2646/477, 7-8=-3058/484, 8-9=0/32,     |  |  |  |  |  |  |  |  |  |
|           | 2-18=-1783/365, 8-10=-1783/365              |  |  |  |  |  |  |  |  |  |
| BOT CHORD | 17-18=-264/701, 16-17=-355/2640,            |  |  |  |  |  |  |  |  |  |
|           | 14-16=-271/2630, 12-14=-271/2630,           |  |  |  |  |  |  |  |  |  |
|           | 11-12=-327/2640, 10-11=-162/701             |  |  |  |  |  |  |  |  |  |
| WEBS      | 3-17=-43/150, 3-16=-439/229, 4-16=-56/713,  |  |  |  |  |  |  |  |  |  |
|           | 5-16=-665/177, 5-14=0/283, 5-12=-665/177,   |  |  |  |  |  |  |  |  |  |
|           | 6-12=-56/713, 7-12=-439/229, 7-11=-43/150,  |  |  |  |  |  |  |  |  |  |
|           | 2-17=-219/1945, 8-11=-216/1945              |  |  |  |  |  |  |  |  |  |

1) Unbalanced roof live loads have been considered for

and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 Provide adequate drainage to prevent water ponding. 3) 4) This truss has been designed for a 10.0 psf bottom

- chord live load nonconcurrent with any other live loads. 5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 235 lb uplift at joint 18 and 235 lb uplift at joint 10.

This truss is designed in accordance with the 2018 7) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

## OF MISS SCOTT M. SEVIER UMBER PE-200101880' C SSIONAL E January 29,2025

Page: 1

 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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LOAD CASE(S) Standard

| Job        | Truss | Truss Type | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P250041-01 | A6    | Нір        | 1   | 1   | Job Reference (optional) | 171039416 |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 28 08:55:49 ID:5rv8PqiM8qc7tLAMJalQDTzb2L?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:73.4

### Plate Offsets (X, Y): [2:Edge,0-2-4], [14:Edge,0-2-4]

| Loading<br>TCLL (roof)         (psf)<br>25.0         Spacing<br>Plate Grip DOL<br>Lumber DOL<br>0.00         2-0-0<br>Lins         CSI<br>TC         DEFL<br>TC         in (loc)         // idell         L/d         PLATES         GRP           BCLL         0.00         Rep Stress Incr         YES         BC         0.80         WB         0.70         Virt(LL)         0.16         14         n/a         n/a         Weight: 196 lb         FT = 2           UMBER<br>TOP CHORD         2x4 SP No.2         Weight: 22-2,14-12:2x4 SP<br>2400F 2.0E         2////////////////////////////////////   |   |   |   | _  |   |   |  |  |  |                            |                               |                          |   |                                       |  |
|--|---|---|---|--|---|---|--|--|--|----------------------------|-------------------------------|--------------------------|---|---------------------------------------|--|
| <ul> <li>LUMBER<br/>TOP CHORD 2x4 SP No.2</li> <li>Wind: ASCE 7-16; Vult=115mph (3-second gust)<br/>Vasd=91mph; TCDL=6.0pst; h=35f;<br/>Vasd=91mph; TCDL=6.0pst; h=35f;<br/>Va</li></ul> | Loading<br>FCLL (roof)<br>FCDL<br>BCLL<br>BCDL  | (psf)<br>25.0<br>10.0<br>0.0<br>10.0  | <b>Spacing</b><br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code   | 2-0-0<br>1.15<br>1.15<br>YES<br>IRC2018                                | 8/TPI2014   | CSI<br>TC<br>BC<br>WB<br>Matrix-S   | 0.57<br>0.80<br>0.76   | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)   | in<br>-0.19<br>-0.36<br>0.16                           | (loc)<br>18<br>15-16<br>14 | l/defl<br>>999<br>>999<br>n/a | L/d<br>240<br>180<br>n/a | PLATES<br>MT20<br>Weight: 196 lb        | <b>GRIP</b><br>244/190<br>FT = 20%    |  |
| NOTES 1) Unbalanced roof live loads have been considered for PE-2001018807   | LUMBER<br>FOP CHORD<br>SOT CHORD<br>SOT CHORD<br>SOT CHORD<br>WEBS<br>REACTIONS<br>FORCES<br>FOP CHORD<br>SOT CHORD<br>SOT CHORD<br>WEBS<br>WOTES<br>I) Unbalance | 2x4 SP No.2<br>2x4 SP No.2<br>2x3 SPF No.2 *Excep<br>2400F 2.0E<br>Structural wood sheat<br>3-1-2 oc purlins, exc<br>2-0-0 oc purlins (3-5-<br>Rigid ceiling directly b<br>bracing.<br>1 Row at midpt<br>(size) 14=0-5-8,<br>Max Horiz 22=128 (L<br>Max Uplift 14=-253 (L<br>Max Uplift 14=-253 (L<br>Max Grav 14=1858 (<br>(lb) - Maximum Comp<br>Tension<br>1-2=0/32, 2-4=-821/1<br>5-6=-2468/492, 6-7=:<br>7-8=-2325/505, 8-9=:<br>9-10=-2909/497, 10-<br>12-13=0/32, 2-22=-61<br>21-22=-398/2585, 20<br>18-20=-192/2139, 16<br>15-16=-279/2449, 14<br>6-20=-97/495, 6-18=:<br>7-18=-459/197, 8-18:<br>8-16=-98/495, 4-22=:<br>10-14=-2263/320, 4-<br>5-21=-36/281, 5-20=:<br>9-16=-477/229, 9-15: | pt* 22-2,14-12:2x4 SP<br>athing directly applied<br>cept end verticals, and<br>-8 max.): 6-8.<br>applied or 9-3-0 oc<br>4-22, 10-14<br>22=0-5-8<br>.C 11)<br>LC 13), 22=-253 (LC 1<br>(LC 1), 22=1858 (LC 1)<br>pression/Maximum<br>183, 4-5=-2909/497,<br>-2325/505,<br>-2468/492,<br>12=-821/183,<br>07/207, 12-14=-607/20<br>)-21=-306/2449,<br>5-18=-178/2139,<br>4-15=-340/2585<br>-142/494,<br>-2263/320,<br>21=-95/169,<br>-477/229,<br>=-37/281, 10-15=-95/1<br>been considered for | 2)<br>or<br>3)<br>4)<br>12)<br>5)<br>6)<br>7)<br>8)<br>207<br>8)<br>LC | Wind: ASCE<br>Vasd=91mpl<br>Ke=1.00; Ca<br>exterior zone<br>Interior (1) 4<br>21-10-4, Inte<br>25-2-10 to 3:<br>cantilever lef<br>right expose<br>for reactions<br>DOL=1.60<br>Provide aded<br>This truss ha<br>chord live lead<br>All bearings<br>capacity of 5<br>Provide mec<br>bearing plate<br>joint 22 and<br>This truss is<br>International<br>R802.10.2 a<br>Graphical pu<br>or the orienta<br>bottom chore | <ul> <li>7-16; Vult=115mp</li> <li>h; TCDL=6.0psf; B</li> <li>tt. II; Exp C; Enclose</li> <li>and C-C Exteriore</li> <li>t-1-8 to 14-9-6, Exteriore</li> <li>trand right exposed</li> <li>d;C-C for members</li> <li>shown; Lumber D</li> <li>quate drainage to p</li> <li>as been designed f</li> <li>ad nonconcurrent v</li> <li>are assumed to be</li> <li>55 psi.</li> <li>chanical connection</li> <li>expable of withsta</li> <li>253 lb uplift at joint</li> <li>designed in accord</li> <li>Residential Code</li> <li>nd referenced stan</li> <li>rdine for the purlin a</li> <li>d.</li> <li>Standard</li> </ul> | h (3-sec<br>CDL=6.0<br>cDL=6.0<br>(2E) -0-1<br>erior(2R<br>25-2-10<br>2-3-8 to<br>d; end v<br>s and for<br>OL=1.60<br>or event v<br>or a 10.0<br>with any<br>SP No.<br>a (by oth<br>anding 2<br>14.<br>dance w<br>sections<br>dard AN<br>does no<br>long the | and gust)<br>opsf; h=35ft;<br>FRS (envelo<br>0-8 to 4-1-8,<br>14-9-6 to<br>Exterior(2R<br>40-10-8 zon<br>rertical left ar<br>ces & MWFF<br>0 plate grip<br>water pondin-<br>0 psf bottom<br>other live loaz<br>2 crushing<br>ers) of truss :<br>53 lb uplift ar<br>ith the 2018<br>R502.11.1 a<br>ISI/TPI 1.<br>bt depict the se<br>top and/or | pe)<br>e;<br>nd<br>RS<br>g.<br>ads.<br>to<br>t<br>size |                            |                               |                          | STATE OF M<br>SCOTT<br>SEVI<br>DE-20010 | AISSOURCE<br>M. ER<br>Serve<br>D18807 |  |

this design.

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January 29,2025

SSIONAL

Page: 1

| Job        | Truss | Truss Type | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P250041-01 | A7    | Нір        | 1   | 1   | Job Reference (optional) | 171039417 |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 28 08:55:49 ID:2E1uqVjcgSsr7fKIQ?Luluzb2Kz-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Scale = 1:73.6

| Plate Offsets (X, Y)                                   | 'late Offsets (X, Y): [2:Edge,0-2-4], [4:0-1-10,0-1-8], [10:0-1-10,0-1-8], [14:Edge,0-2-4] |                 |                 |          |      |          |       |       |        |     |                |          |  |  |
|--|--|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|--|--|
| 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       | 0.61 | Vert(LL) | -0.19 | 15-17 | >999   | 240 | MT20           | 244/190  |  |  |
| TCDL   | 10.0   | Lumber DOL      | 1.15            | BC       | 0.82 | Vert(CT) | -0.39 | 15-17 | >999   | 180 |                |          |  |  |
| BCLL   | 0.0  | Rep Stress Incr | YES             | WB       | 0.90 | Horz(CT) | 0.16  | 14    | n/a    | n/a |                |          |  |  |
| BCDL   | 10.0   | Code            | IRC2018/TPI2014 | Matrix-S |      |          |       |       |        |     | Weight: 196 lb | FT = 20% |  |  |
| LUMBER 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) |  |                 |                 |          |      |          |       |       |        |     |                |          |  |  |

| LUMBER      |   | 2) | Wind: ASCE 7-16; Vult=115mph (3-second gust)             |
|-------------|---|----|--|
| TOP CHORD   | 2x4 SP No.2   |    | Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft;            |
| BOT CHORD   | 2x4 SP No.2   |    | Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope)      |
| WEBS        | 2x3 SPF No.2 *Except* 21-2,14-12:2x4 SP                         |    | exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8,     |
|             | 2400F 2.0E  |    | Interior (1) 4-1-8 to 16-5-6, Exterior(2E) 16-5-6 to     |
| BRACING     |   |    | 23-6-10, Exterior(2R) 23-6-10 to 30-7-8, Interior (1)    |
| TOP CHORD   | Structural wood sheathing directly applied or                   |    | 30-7-8 to 40-10-8 zone; cantilever left and right        |
|             | 3-0-5 oc purlins. except end verticals, and                     |    | exposed ; end vertical left and right exposed;C-C for    |
|             | 2-0-0 oc purlins (4-0-8 max.): 6-8.                             |    | members and forces & MWFRS for reactions shown;          |
| BOT CHORD   | Rigid ceiling directly applied or 8-9-6 oc                      |    | Lumber DOL=1.60 plate grip DOL=1.60                      |
|             | bracing.  | 3) | Provide adequate drainage to prevent water ponding.      |
| WEBS        | 1 Row at midpt 3-21, 11-14, 7-18, 7-17                          | 4) | This truss has been designed for a 10.0 psf bottom       |
| REACTIONS   | (size) 14=0-5-8, 21=0-5-8                                       |    | chord live load nonconcurrent with any other live loads. |
|             | Max Horiz 21=144 (LC 16)  | 5) | All bearings are assumed to be SP No.2 crushing          |
|             | Max Uplift 14=-269 (LC 13), 21=-269 (LC 12)                     | ~  | capacity of 565 psi.                                     |
|             | Max Grav 14=1858 (LC 1), 21=1858 (LC 1)                         | 6) | Provide mechanical connection (by others) of truss to    |
| FORCES      | (lb) - Maximum Compression/Maximum                              |    | isint 21 and 260 lb unlift at isint 14                   |
| TOROLO      | Tension   | 7) | Joint 21 and 209 ib upint at joint 14.                   |
| TOP CHORD   | 1-2=0/32 2-3=-893/213 3-5=-2886/501                             | () | International Residential Code sections R502 11 1 and    |
| 101 0110112 | 5-6=-2338/490, 6-7=-2011/475.                                   |    | R802 10 2 and referenced standard ANSI/TPI 1             |
|             | 7-8=-2011/475, 8-9=-2338/490,                                   | 8) | Graphical purlin representation does not depict the size |
|             | 9-11=-2886/501, 11-12=-893/213,                                 | 0) | or the orientation of the purlin along the top and/or    |
|             | 12-13=0/32, 2-21=-649/222, 12-14=-649/222                       |    | bottom chord.  |
| BOT CHORD   | 20-21=-437/2600, 18-20=-293/2386,                               | 10 | AD CASE(S) Standard                                      |
|             | 17-18=-179/2072, 15-17=-266/2386,                               |    |  |
|             | 14-15=-341/2600   |    |  |
| WEBS        | 6-18=-106/721, 8-17=-106/721,                                   |    |  |
|             | 3-21=-2201/308, 11-14=-2201/308,                                |    |  |
|             | 7-18=-352/137, 7-17=-352/136,                                   |    |  |
|             | 3-20=-164/193, 5-20=-45/348,                                    |    |  |
|             | 5-18=-575/259, 9-17=-575/259,                                   |    |  |
|             | 9-15=-46/348, 11-15=-164/193                                    |    |  |
| NOTES       |   |    |  |
| AN 11 1 1   | and we will be a low of a low on the same second data and data. |    |  |

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



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| Job        | Truss | Truss Type | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P250041-01 | A8    | Нір        | 1   | 1   | Job Reference (optional) | 171039418 |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 28 08:55:49 ID:h?iaC\_Sprh5zUHeW8NxkPFzb2LJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:73.7

#### Plate Offsets (X, Y): [2:Edge,0-2-4], [11:Edge,0-2-4]

|             |                               |                                |         |                |                        |           |                  |       |       |        |            |                |                 | _ |
|-------------|-------------------------------|--------------------------------|---------|----------------|------------------------|-----------|------------------|-------|-------|--------|------------|----------------|-----------------|---|
| 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                     | 0.69      | Vert(LL)         | -0.19 | 14-16 | >999   | 240        | MT20           | 244/190         |   |
| TCDL        | 10.0                          | Lumber DOL                     | 1.15    |                | BC                     | 0.91      | Vert(CT)         | -0.42 | 14-16 | >999   | 180        |                |                 |   |
| BCLL        | 0.0                           | Rep Stress Incr                | YES     |                | WB                     | 0.88      | Horz(CT)         | 0.16  | 13    | n/a    | n/a        |                |                 |   |
| BCDL        | 10.0                          | Code                           | IRC2018 | 3/TPI2014      | Matrix-S               |           |                  |       |       |        |            | Weight: 193 lb | FT = 20%        |   |
|             |                               | 1                              |         |                |                        | 10        |                  |       |       |        |            | -              |                 | - |
| LUMBER      |                               |                                | 2)      | Wind: ASCE     | 7-16; Vult=115mpl      | n (3-sec  | cond gust)       |       |       |        |            |                |                 |   |
| TOP CHORD   | 2x4 SP No.2                   |                                |         | Vasd=91mpr     | 1; TCDL=6.0pst; BC     | DL=6.     | Jpsr; n=35rr;    |       |       |        |            |                |                 |   |
| BOT CHORD   | 2x4 SP No.2                   |                                |         | Ke=1.00; Ca    | t. II; EXP C; Enclose  | ea; ivivv | FRS (envelop     | be)   |       |        |            |                |                 |   |
| WEBS        | 2x3 SPF No.2 *Exce            | ept* 20-2,13-11:2x4 S          | SP      | Interior (1) 4 |                        | 2E) -0-   | 10-0104-1-0      |       |       |        |            |                |                 |   |
|             | N0.2                          |                                |         | 22-9-2 Exter   | rior(2R) 22-9-2 to 2   | 0_0_15    | _) 17-2-14 (0    |       |       |        |            |                |                 |   |
|             | o                             |                                |         | 29-9-15 to 40  | )-10-8 zone: cantile   | ever left | and right        |       |       |        |            |                |                 |   |
| TOP CHORD   | Structural wood she           | athing directly applie         | d or    | exposed : en   | d vertical left and r  | iaht exc  | osed:C-C for     |       |       |        |            |                |                 |   |
|             | 2-7-15 oc purlins, e          | except end verticals, a        | and     | members and    | d forces & MWFRS       | for rea   | ctions shown     | :     |       |        |            |                |                 |   |
|             | 2-0-0 oc punins (3-2          | 2-2 max.): 6-7.                |         | Lumber DOL     | =1.60 plate grip DO    | DL=1.60   | )                | ,     |       |        |            |                |                 |   |
|             | bracing                       | applied of 6-5-9 oc            | 3)      | Provide adec   | uate drainage to p     | revent    | water ponding    | 1.    |       |        |            |                |                 |   |
| WERS        | 1 Row at midnt                | 7-17 5-17 8-16 3-2             | 20 4)   | This truss ha  | s been designed fo     | or a 10.0 | ) psf bottom     |       |       |        |            |                |                 |   |
| WEBO        | i now at mapt                 | 10-13                          | -0,     | chord live loa | ad nonconcurrent w     | ith any   | other live loa   | ds.   |       |        |            |                |                 |   |
| REACTIONS   | (size) 13-0-5-8               | 20-0-5-8                       | 5)      | All bearings a | are assumed to be      | SP No.    | 2 crushing       |       |       |        |            |                |                 |   |
| REAGING NO  | Max Horiz 20=151 (I           | (C 16)                         |         | capacity of 5  | 65 psi.                |           |                  |       |       |        |            |                |                 |   |
|             | Max   Inlift 13=-276 (        | (I C 13) 20=-276 (I C          | (12) 6) | Provide mecl   | hanical connection     | (by oth   | ers) of truss to | 0     |       |        |            |                |                 |   |
|             | Max Grav 13-1858              | $(1 \oplus 10), 20 = 210$ (10) | 1)      | bearing plate  | capable of withsta     | inding 2  | 76 lb uplift at  |       |       |        |            |                |                 |   |
| FORCES      | (lb) Maximum Corr             | (20 1), 2021000 (20            | '))     | joint 20 and 2 | 276 Ib uplift at joint | 13.       | whee 0040        |       |       |        |            |                |                 |   |
| FURGES      | (ID) - Maximum Con<br>Tension | ipression/waximum              | 7)      | I his truss is | designed in accord     | ance w    | ith the 2018     | nd    |       |        |            |                |                 |   |
|             | 1-2=0/32 2-3=-837/            | 183 3-5=-2870/484              |         | Pene 10.2 or   | Residential Code s     | dord AN   | 191/TDI 1        | na    |       |        |            |                |                 |   |
|             | 5-6=-2272/478.6-7=            | =-1949/467.                    | 8)      | Graphical pu   | rlin representation    | does no   | t denict the s   | 170   |       |        |            |                |                 |   |
|             | 7-8=-2271/478, 8-10           | )=-2871/484,                   | 0)      | or the orients | ation of the nurlin al | long the  | ton and/or       | 120   |       |        |            |                |                 |   |
|             | 10-11=-837/183, 11            | -12=0/32, 2-20=-613            | /205,   | bottom chord   | l.                     | iong inc  |                  |       |       |        |            |                |                 |   |
|             | 11-13=-613/205                |                                |         | AD CASE(S)     | Standard               |           |                  |       |       |        |            | CON            | 1000            |   |
| BOT CHORD   | 19-20=-467/2609, 1            | 7-19=-297/2344,                |         | (U)            | olandara               |           |                  |       |       |        |            | A OF M         | AIS C           |   |
|             | 16-17=-128/1948, 1            | 4-16=-245/2344,                |         |                |                        |           |                  |       |       |        | 1          | 750            | N.O.            |   |
|             | 13-14=-343/2609               |                                |         |                |                        |           |                  |       |       |        | 8          | SCOTT          | M NA            |   |
| WEBS        | 6-17=-69/594, 7-17=           | =-222/225,                     |         |                |                        |           |                  |       |       |        | R          |                |                 |   |
|             | 7-16=-128/606, 3-19           | 9=-202/214,                    |         |                |                        |           |                  |       |       |        | <b>b</b> . | SEVI           |                 |   |
|             | 5-19=-39/388, 5-1/=           | =-617/273,                     |         |                |                        |           |                  |       |       |        | 80         | 1              | A 130           |   |
|             | 3 - 10 = -017/273, 8 - 14     | +=-39/389,                     |         |                |                        |           |                  |       |       |        | 849        | 1. #~          | ·> So a line to |   |
|             | 10-14=-202/214, 3-2           | 20=-2203/332,                  |         |                |                        |           |                  |       |       |        | 10         | COLOM          |                 |   |
| NOTES       | 10 10-2204/332                |                                |         |                |                        |           |                  |       |       | -      | 5          | PE-20010       | 018807          |   |
|             | od roof live loade beve       | boon considered for            |         |                |                        |           |                  |       |       |        | N          | The second     | 12H             |   |
| this design | a roor live loads have        |                                |         |                |                        |           |                  |       |       |        | Y          | 080            | O'H             |   |
| uns desigi  |                               |                                |         |                |                        |           |                  |       |       |        |            | UN ONA         | LETA            |   |
|             |                               |                                |         |                |                        |           |                  |       |       |        |            | Un In          |                 |   |



TION

IEW

January 29,2025

| Job        | Truss | Truss Type | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P250041-01 | A9    | Нір        | 1   | 1   | Job Reference (optional) | 171039419 |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 28 08:55:49 ID:jH71xCGyFKwE9WLqWNGeikz8PrB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:73.6

| Plate Offsets ( | X, Y): [2:Edge,0-2-4],                          | [8:0-8-8,0-1-12], [15  | :Edge,0-5 | -8], [16:0-5-8,0 | -1-12], [18:0-5-4,0-  | 2-0], [1      | 9:0-2-4,Edge]    | , [20:Ed | lge,0-2-8 | 8], [21:0- | 2-4,0-2 | 2-4], [23:0-2-12,0- | 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      |                  | TC                    | 0.73          | Vert(LL)         | -0.35    | 18-19     | >999       | 240     | MT20                | 244/190  |
| TCDL            | 10.0  | Lumber DOL             | 1.15      |                  | BC                    | 0.97          | Vert(CT)         | -0.63    | 18-19     | >757       | 180     |                     |          |
| BCLL            | 0.0   | Rep Stress Incr        | YES       |                  | WB                    | 0.97          | Horz(CT)         | 0.36     | 15        | n/a        | n/a     |                     |          |
| BCDL            | 10.0  | Code                   | IRC201    | 8/TPI2014        | Matrix-S              |               |                  |          |           |            |         | Weight: 233 lb      | FT = 20% |
| LUMBER          |   |                        | W         | EBS 6            | 6-24=-116/765. 8-2    | 2=-111        | /339.            |          |           |            |         |                     |          |
| TOP CHORD       | 2x4 SP No.2                                     |                        |           | 8                | 3-21=-2965/294, 19    | -21=-2        | 92/3728,         |          |           |            |         |                     |          |
| BOT CHORD       | 2x4 SP No.2 *Excep                              | t* 20-9,10-17:2x3 SF   | ۶F        | 8                | 3-19=-383/3745, 10    | )-19=-1       | 254/259,         |          |           |            |         |                     |          |
|                 | No.2  |                        |           | 1                | 6-18=-337/2739, 1     | 2-18=-        | 63/738,          |          |           |            |         |                     |          |
| WEBS            | 2x3 SPF No.2 *Exce                              | ept*                   |           | 1                | 2-16=-969/219, 3-     | 26=-22        | 19/320,          |          |           |            |         |                     |          |
|                 | 21-8,21-19,19-8,15-                             | 13:2x4 SP No.2,        |           | 1                | 13-16=-190/1932, 7    | -22=-2        | 67/142,          |          |           |            |         |                     |          |
|                 | 26-2:2x4 SP 2400F 2                             | 2.0E                   |           | 1                | -24=-426/135, 3-2     | 5=-141        | 186,             |          |           |            |         |                     |          |
| BRACING         |   |                        |           |                  | 0-20=-34/327, 0-24    | =-546/2       | .44              |          |           |            |         |                     |          |
| TOP CHORD       | Structural wood she                             | athing directly applie | dor N     | OTES             |                       |               |                  | _        |           |            |         |                     |          |
|                 | 2-3-12 oc purlins, e                            | xcept end verticals, a | and 1)    | Unbalanced       | root live loads have  | e been (      | considered to    | r        |           |            |         |                     |          |
|                 | 2-0-0 oc purlins (3-7<br>Bigid coiling directly | -8 max.): 6-8.         | 2)        | Wind: ASCE       | 7-16: \/ult=115mpl    | 13-00         | cond quet)       |          |           |            |         |                     |          |
| BOTCHORD        | bracing Except:                                 | applied of 10-0-0 oc   | <u> </u>  | Vasd=91mpt       | 1 TCDI =6 0nsf: B(    | 10-360        | Insf: h=35ft:    |          |           |            |         |                     |          |
|                 | 8-10-14 oc bracing:                             | 25-26                  |           | Ke=1.00: Ca      | t. II: Exp C: Enclos  | ed: MW        | FRS (envelor     | be)      |           |            |         |                     |          |
|                 | 6-0-0 oc bracing: 19                            | -20                    |           | exterior zone    | and C-C Exterior(     | 2E) -0-1      | 0-8 to 4-1-8,    | - /      |           |            |         |                     |          |
|                 | 2-2-0 oc bracing: 18                            | -19.                   |           | Interior (1) 4-  | 1-8 to 15-9-13, Ex    | erior(21      | R) 15-9-13 to    |          |           |            |         |                     |          |
| WEBS            | 1 Row at midpt                                  | 8-22, 8-21, 3-26, 7-2  | 22,       | 22-10-11, Int    | erior (1) 22-10-11 t  | o 24-2-       | 3, Exterior(2F   | R)       |           |            |         |                     |          |
|                 |   | 7-24                   |           | 24-2-3 to 31-    | 3-0, Interior (1) 31- | -3-0 to 4     | 10-10-8 zone;    |          |           |            |         |                     |          |
| REACTIONS       | (size) 15=0-5-8,                                | 26=0-5-8               |           | cantilever lef   | t and right exposed   | i; end v      | ertical left an  | d        |           |            |         |                     |          |
|                 | Max Horiz 26=138 (L                             | _C 12)                 |           | for reactions    | shown: Lumber D       |               | Ces & MINTR      | .5       |           |            |         |                     |          |
|                 | Max Uplift 15=-263 (                            | LC 13), 26=-263 (LC    | 12)       | DOI = 1.60       | Shown, Lumber Do      | JL=1.00       | plate grip       |          |           |            |         |                     |          |
|                 | Max Grav 15=1858                                | (LC 1), 26=1858 (LC    | 1) 3)     | Provide adec     | uate drainage to p    | revent        | water ponding    | 1.       |           |            |         |                     |          |
| FORCES          | (lb) - Maximum Com                              | pression/Maximum       | 4)        | All plates are   | 3x4 MT20 unless       | otherwi       | se indicated.    | ,-       |           |            |         |                     | Th       |
|                 |   | 107 0 5 0000/407       | 5)        | This truss ha    | s been designed fo    | or a 10.0     | ) psf bottom     |          |           |            |         | OF N                | ALL ALL  |
| TOP CHORD       | 1-2=0/32, 2-3=-868/                             | 197, 3-5=-2886/497,    |           | chord live loa   | ad nonconcurrent w    | ith any       | other live loa   | ds.      |           |            |         | AFUT                | IISS W   |
|                 | 5-0=-2307/493, 0-7=<br>7-82157/492 8-9-         |                        | 6)        | All bearings a   | are assumed to be     | SP No.        | 2 crushing       |          |           |            | A       |                     | N.S.     |
|                 | 9-10=-3269/602 10-                              | -12=-3837/618          |           | capacity of 5    | 65 psi.               |               |                  |          |           |            | R       | SCOTT               | M. VEN   |
|                 | 12-13=-3052/476. 13                             | 3-14=0/32.             | 7)        | Provide mecl     | hanical connection    | (by oth       | ers) of truss to | 0        |           |            | 4       | / SEVI              | ER \Y    |
|                 | 2-26=-634/214, 13-1                             | 5=-1785/365            |           | bearing plate    | capable of withsta    | inding 2      | 63 Ib uplift at  |          |           | - 7        | 14      | -1                  | 1+4      |
| BOT CHORD       | 25-26=-424/2593, 24                             | 4-25=-297/2413,        | 8)        | This trues is    | designed in accord    | 20.<br>ance w | ith the 2018     |          |           |            | NO      |                     | 0        |
|                 | 22-24=-193/2157, 2                              | 1-22=-167/2083,        | 0)        | International    | Residential Code s    | sections      | R502 11 1 a      | nd       |           |            | M.      | the                 | Vor Nat  |
|                 | 20-21=-8/77, 19-20=                             | -95/0, 9-19=-64/392    | ,         | R802.10.2 ar     | nd referenced stan    | dard AN       | ISI/TPI 1.       | na       |           |            | 117     | HOM                 |          |
|                 | 18-19=-335/3351, 17                             | 7-18=0/104,            | 9)        | Graphical pu     | rlin representation   | does no       | ot depict the s  | ize      |           |            | N.      | OX PE-20010         | J18807 A |
|                 | 10-18=-89/1016, 16-                             | -17=-1/56,             | -,        | or the orienta   | ation of the purlin a | long the      | top and/or       |          |           |            | V       | (B)                 | 1SH      |
|                 | 10-10=-103/708                                  |                        |           | bottom chord     | l                     | -             |                  |          |           |            |         | Slow.               | EN       |
|                 |   |                        | L         | DAD CASE(S)      | Standard              |               |                  |          |           |            |         | <b>WNA</b>          | L        |
|                 |   |                        |           |                  |                       |               |                  |          |           |            |         | un                  |          |

January 29,2025

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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 | Roof - HM Lot 200        |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P250041-01 | A10   | Нір        | 1   | 1   | Job Reference (optional) | 171039420 |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 28 08:55:49 ID:F4ZfksFKU0oNYNmezfIPAWz8PrC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



#### Scale = 1:73.3

| late Offsets (X, Y): [12:0-3-0,0-2-4], [13:0-2-8,0-2-0], [19:0-2-8,0-2-0], [20:0-3-0,0-2-4]                                  |   |   |   |   |  |  |   |  |                            |                               |                          |   |                                    |  |
|--|---|---|---|---|--|--|---|--|----------------------------|-------------------------------|--------------------------|---|------------------------------------|--|
| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL   | (psf)<br>25.0<br>10.0<br>0.0<br>10.0  | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code  | 2-0-0<br>1.15<br>1.15<br>YES<br>IRC201  | 8/TPI2014   | <b>CSI</b><br>TC<br>BC<br>WB<br>Matrix-S   | 0.80<br>0.75<br>0.80   | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)  | in<br>-0.18<br>-0.33<br>0.12                             | (loc)<br>16<br>16-18<br>12 | l/defl<br>>999<br>>999<br>n/a | L/d<br>240<br>180<br>n/a | <b>PLATES</b><br>MT20<br>Weight: 191 lb | <b>GRIP</b><br>244/190<br>FT = 20% |  |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>BOT CHORD<br>BOT CHORD<br>BOT CHORD<br>WEBS | 2x4 SP No.2 *Excep<br>2.0E<br>2x4 SP No.2<br>2x3 SPF No.2 *Excep<br>No.2<br>Structural wood she<br>2-2-0 oc purlins, ex<br>2-0-0 oc purlins, ex<br>2-0-0 oc purlins (3-3<br>Rigid ceiling directly<br>bracing.<br>(size) 12=0-5-8,<br>Max Horiz 20=125 (I<br>Max Uplift 12=-247 (<br>Max Grav 12=1857<br>(Ib) - Maximum Com<br>Tension<br>1-2=0/35, 2-4=-3021<br>5-6=-2409/507, 6-7-<br>7-8=-2545/474, 8-10<br>2-20=-1780/372, 10<br>19-20=-288/706, 18<br>16-18=-201/2174, 1:<br>13-14=-318/2601, 1:<br>4-19=-24/180, 4-18=<br>5-16=-150/543, 6-16<br>7-16=-150/543, 6-16<br>7-16=-150/543, 8-13<br>2-19=-205/1901, 10 | bit* 3-5,7-9:2x4 SP 24<br>apt* 20-2,12-10:2x6 S<br>athing directly applie<br>cept end verticals, ar<br>3-0 max.): 5-7.<br>applied or 9-11-1 oc<br>, 20=0-5-8<br>_C 11)<br>[LC 13), 20=-247 (LC<br>(LC 1), 20=1857 (LC<br>npression/Maximum<br>1/482, 4-5=-2545/474<br>-2409/507,<br>D=-3021/482, 10-11=<br>-12=-1780/372<br>-19=-347/2601,<br>4-16=-188/2174,<br>2-13=-178/706<br>=-513/249, 5-18=-51/<br>3=-24/180,<br>-13=-203/1901 | 2)<br>000F<br>3P<br>d or<br>nd<br>10<br>1)<br>6)<br>1,<br>7)<br>0/35,<br>8)<br>421, | Wind: ASCE<br>Vasd=91mph<br>Ke=1.00; Cat<br>exterior zone<br>Interior (1) 4-<br>21-2-11, Inte<br>25-10-3 to 32<br>cantilever left<br>right exposed<br>for reactions<br>DOL=1.60<br>Provide aded<br>This truss ha<br>chord live loa<br>All bearings a<br>capacity of 50<br>Provide med<br>bearing plate<br>joint 20 and 2<br>This truss is o<br>International<br>R802.10.2 ar<br>Graphical pu<br>or the orienta<br>bottom chord<br>DAD CASE(S) | 7-16; Vult=115mph<br>; TCDL=6.0psf; BC<br>i. II; Exp C; Encloss<br>and C-C Exterior(2<br>1-8 to 14-1-13, Ext<br>rior (1) 21-2-11 to 2<br>2-9-13, Interior (1) 3<br>and right exposed<br>d;C-C for members<br>shown; Lumber DC<br>uate drainage to p<br>s been designed for<br>d nonconcurrent w<br>are assumed to be<br>65 psi.<br>nanical connection<br>capable of withsta<br>247 lb uplift at joint<br>designed in accord<br>Residential Code s<br>d referenced stano-<br>rlin representation<br>tion of the purlin al<br>Standard | n (3-sec<br>CDL=6.(<br>2d; MW<br>2E) -0-1<br>erior(2F<br>25-10-3<br>32-9-13<br>; end v<br>and for<br>DL=1.60<br>revent v<br>and for<br>DL=1.60<br>revent v<br>or a 10.0<br>rith any<br>SP No.<br>(by oth-<br>nding 2<br>12.<br>ance wise<br>ections<br>dard AN<br>does no<br>ong the | ond gust)<br>)psf; h=35ft;<br>FRS (envelop<br>0-8 to 4-1-8,<br>R141-13 to<br>Exterior(2R)<br>plate grip<br>vater ponding<br>psf bottom<br>other live loa<br>2 crushing<br>ers) of truss t<br>47 lb uplift at<br>th the 2018<br>R502.11.1 a<br>SI/TPI 1.<br>t depict the s<br>top and/or | pe)<br>)<br>one;<br>dd<br>RS<br>g.<br>ds.<br>ds.<br>size |                            |                               |                          | STATE OF M<br>STATE SCOTT               | MISSOLIRI<br>M.<br>ER              |  |
| NOTES  | ed roof live loads have   | been considered for   |   |   |  |  |   |  |                            |                               | ØS                       | 8 45                                    | ile ile                            |  |

this design.

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 ANSI/TPI Claulity 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)



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January 29,2025

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| Job        | Truss | Truss Type | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P250041-01 | A11   | Нір        | 1   | 1   | Job Reference (optional) | 171039421 |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 28 08:55:49 ID:nu?HXWEijjgWwDBSPyEAdJz8PrD-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

27-6<u>-3</u> 6-4-3 17-4-9 22-7-7 33-7-13 40-0-0 12-5-13 6-4-3 6-1-11 4-10-12 5-2-13 4-10-12 6-1-11 6-4-3 3x4= 3x4= 5x5= 5x5= -10 -1 4 5 22 23 6 7 ,12 6 3x4 👟 3x4 🚽 3 8 21 24 20 25



#### Scale = 1:73.1

| Plate Offsets (   | (X, Y): [11:0-3-0,0-2-4]   | ], [12:0-2-8,0-2-0], [1  | 8:0-2-8,0-2                                 | 2-0], [19:0-3-0,  | 0-2-4]   |  |   |                              |                            |                               |                          |                                  |                                    |
|---|--|--|---|---|--|--|---|------------------------------|----------------------------|-------------------------------|--------------------------|----------------------------------|------------------------------------|
| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL                                | (psf)<br>25.0<br>10.0<br>0.0<br>10.0   | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code                               | 2-0-0<br>1.15<br>1.15<br>YES<br>IRC2018     | 3/TPI2014   | CSI<br>TC<br>BC<br>WB<br>Matrix-S  | 0.86<br>0.79<br>0.68   | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)  | in<br>-0.22<br>-0.42<br>0.13 | (loc)<br>15<br>15-17<br>11 | l/defl<br>>999<br>>999<br>n/a | L/d<br>240<br>180<br>n/a | PLATES<br>MT20<br>Weight: 189 lb | <b>GRIP</b><br>197/144<br>FT = 20% |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>BOT CHORD | 2x4 SP No.2<br>2x4 SP No.2<br>2x3 SPF No.2 *Exce<br>No.2<br>Structural wood shea<br>except end verticals,<br>(3-3-10 max.): 4-7.<br>Rigid ceiling directly | pt* 19-2,11-9:2x6 Sf<br>athing directly applie<br>, and 2-0-0 oc purlins<br>applied or 9-10-15 c | 2)<br>ed,<br>s<br>oc                        | Wind: ASCE<br>Vasd=91mpl<br>Ke=1.00; Ca<br>exterior zone<br>Interior (1) 4<br>19-6-11, Inte<br>27-6-3 to 34-<br>cantilever lef<br>right expose<br>for reactions | 7-16; Vult=115mp<br>n; TCDL=6.0psf; B<br>t. II; Exp C; Enclos<br>and C-C Exterior<br>1-8 to 12-5-13, Ex<br>rior (1) 19-6-11 to<br>7-0, Interior (1) 34<br>t and right expose<br>d;C-C for members<br>shown; Lumber D | oh (3-sec<br>CDL=6.0<br>sed; MW<br>(2E) -0-1<br>(terior(2F<br>27-6-3, 1<br>-7-0 to 4<br>d; end v<br>s and for<br>OL=1.60 | ond gust)<br>)psf; h=35ft;<br>FRS (envelop<br>0-8 to 4-1-8,<br>3) 12-5-13 to<br>Exterior(2R)<br>0-10-8 zone;<br>ertical left an<br>ces & MWFR<br>plate grip | d<br>S                       |                            |                               |                          |                                  |                                    |
| WEBS<br>REACTIONS   | bracing.<br>1 Row at midpt<br>(size) 11=0-5-8,<br>Max Horiz 19=114 (L<br>Max Uplift 11=-229 (I<br>Max Grav 11=1857 (                                       | 5-17, 6-13<br>19=0-5-8<br>.C 11)<br>LC 13), 19=-229 (LC<br>(LC 1), 19=1857 (LC                   | 3)<br>4)<br>5)<br>(12)<br>(1)<br>(1)<br>(1) | Provide adec<br>This truss ha<br>chord live loa<br>All bearings<br>capacity of 5<br>Provide mec   | quate drainage to p<br>is been designed f<br>ad nonconcurrent v<br>are assumed to be<br>65 psi.<br>banical connection  | orevent v<br>or a 10.0<br>with any<br>e SP No.   | vater ponding<br>) psf bottom<br>other live loa<br>2 crushing   | g.<br>ds.                    |                            |                               |                          |                                  |                                    |
| FORCES  | (lb) - Maximum Com<br>Tension  | pression/Maximum   | ý 0)  | bearing plate   | capable of withst  | anding 2   | 29 lb uplift at   | 0                            |                            |                               |                          |                                  |                                    |
| TOP CHORD   | 1-2=0/35, 2-3=-3003<br>4-5=-2288/466, 5-6=<br>6-7=-2288/466, 7-8=<br>8-9=-3003/477, 9-10<br>9-11=-1783/367   | 6/477, 3-4=-2661/473<br>2672/505,<br>2661/473,<br>==0/35, 2-19=-1783/3                           | 3, 7)<br>367, 8)                            | This truss is<br>International<br>R802.10.2 a<br>Graphical pu<br>or the orienta   | designed in accord<br>Residential Code<br>nd referenced star<br>rlin representation<br>ation of the purlin a   | dance wi<br>sections<br>idard AN<br>i does no<br>along the   | th the 2018<br>R502.11.1 a<br>ISI/TPI 1.<br>ot depict the s   | nd<br>size                   |                            |                               |                          |                                  |                                    |
| BOT CHORD   | 18-19=-234/616, 17-<br>15-17=-311/2641, 13<br>12-13=-322/2595, 11  | 18=-350/2595,<br>3-15=-286/2641,<br>1-12=-138/616  | LO  | bottom chord<br>AD CASE(S)  | I.<br>Standard   | liong inc  |   |                              |                            |                               |                          | E OF M                           | AISSO                              |
| WEBS<br>NOTES   | 3-18=-82/109, 3-17=<br>7-13=-79/791, 8-13=<br>2-18=-231/1987, 9-1<br>5-15=-15/181, 5-17=<br>6-13=-716/202  | 365/213, 4-17=-79/<br>365/213, 8-12=-82/<br>2=-228/1987,<br>716/202, 6-15=-15/                   | 791,<br>109,<br>181,                        |   |  |  |   |                              |                            |                               | S                        | SCOTI<br>SEVI                    | ER<br>Server                       |

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





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January 29,2025

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40-10-8

0-10-8

| Job        | Truss | Truss Type | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P250041-01 | A12   | Нір        | 1   | 1   | Job Reference (optional) | 171039422 |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 28 08:55:50 ID:IiRuJAE3yPYfl3cFrEjx55z8PrE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



#### Scale = 1:72.9

| Plate Offsets   | (X, Y): [12:Edge,0-5-8]   | ], [13:0-2-8,0-2-0], [  | 19:0-2-8,0-   | 2-0], [20:Edge  | ,0-5-8]  |   |  |   |                            |                               |                          |                                  |                                    |
|---|---|---|---|---|--|---|--|---|----------------------------|-------------------------------|--------------------------|----------------------------------|------------------------------------|
| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL  | (psf)<br>25.0<br>10.0<br>0.0<br>10.0  | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code  | 2-0-0<br>1.15<br>1.15<br>YES<br>IRC201  | 8/TPI2014   | CSI<br>TC<br>BC<br>WB<br>Matrix-S  | 0.70<br>0.91<br>0.70  | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)   | in<br>-0.24<br>-0.51<br>0.13                  | (loc)<br>16<br>14-16<br>12 | l/defl<br>>999<br>>932<br>n/a | L/d<br>240<br>180<br>n/a | PLATES<br>MT20<br>Weight: 182 lb | <b>GRIP</b><br>197/144<br>FT = 20% |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>REACTIONS  | 2x4 SP No.2<br>2x4 SP No.2 *Excep<br>2.0E<br>2x3 SPF No.2 *Exce<br>No.2<br>Structural wood shea<br>2-7-11 oc purlins, e:<br>2-0-0 oc purlins (2-7<br>Rigid ceiling directly<br>bracing.<br>1 Row at midpt<br>(size) 12=0-5-8,<br>Max Horiz 20=101 (L<br>Max Uplift 12=-208 (<br>Max Grav 12=1858 (<br>(lb) - Maximum Com<br>Tension | ept* 17-15:2x4 SP 240<br>ept* 20-2,12-10:2x4<br>athing directly applia<br>xcept end verticals,<br>-14 max.): 4-8.<br>applied or 8-8-9 oc<br>5-18, 6-14<br>20=0-5-8<br>-C 11)<br>LC 13), 20=-208 (LC<br>(LC 1), 20=1858 (LC<br>upression/Maximum | 2)<br>00F<br>SP<br>ed or<br>and<br>3)<br>4)<br>5)<br>C 12)<br>C 12)<br>C 1)<br>7)           | Wind: ASCE<br>Vasd=91mp<br>Ke=1.00; Ca<br>exterior zomu<br>Interior (1) 4<br>17-10-11, In<br>29-2-3 to 36<br>cantilever le<br>right expose<br>for reactions<br>DOL=1.60<br>Provide ade<br>This truss ha<br>chord live lo<br>All bearings<br>capacity of 5<br>Provide med<br>bearing plat<br>joint 20 and<br>This truss is | 7-16; Vult=115n<br>h; TCDL=6.0psf;<br>it. II; Exp C; Encl<br>a and C-C Exterio<br>-1-8 to 10-9-13, I<br>terior (1) 17-10-1<br>-3-0, Interior (1) :<br>ft and right expos<br>d; C-C for membe<br>s shown; Lumber<br>quate drainage to<br>a soccurren<br>are assumed to l<br>665 psi.<br>shanical connecti<br>a capable of with<br>208 lb uplift at jo<br>designed in acco | nph (3-sec<br>BCDL=6.<br>osed; MW<br>or(2E) -0<br>Exterior(2I<br>1 to 29-2-<br>36-3-0 to 4<br>sed ; end 1<br>to 29-2-<br>do prevent 1<br>d for a 10.<br>t with any<br>be SP No.<br>on (by oth<br>standing 2<br>int 12.<br>ordance w | cond gust)<br>Dpsf; h=35ft;<br>FRS (envelo<br>10-8 to 4-1-8,<br>R) 10-9-13 to<br>3, Exterior(2f<br>40-10-8 zone<br>vertical left ar<br>cres & MWFF<br>0 plate grip<br>water ponding<br>0 psf bottom<br>other live loa<br>2 crushing<br>ers) of truss f<br>008 lb uplift at<br>ith the 2018 | pe)<br>?)<br>;<br>id<br>?S<br>g.<br>dds.<br>; |                            |                               |                          |                                  |                                    |
| TOP CHORD   | 1-2=0/32, 2-3=-3022<br>4-5=-2428/459, 5-6=<br>6-8=-2427/459, 8-9=<br>9-10=-3022/476, 10-<br>2-20=-1784/360, 10-<br>19-20=-187/583, 18-  | '4, <sup>7)</sup><br>8)<br>L(   | International<br>R802.10.2 a<br>Graphical pu<br>or the orient<br>bottom chor<br>DAD CASE(S) | Residential Cod<br>nd referenced st<br>urlin representation<br>ation of the purlir<br>d.<br>Standard  | le sections<br>andard AN<br>on does no<br>along the  | S R502.11.1 a<br>ISI/TPI 1.<br>Dt depict the set top and/or   | and<br>size  |   |                            |                               | Soft OF M                | AISS                             |                                    |
| 16-18=-443/3030, 14-16=-414/3035,<br>13-14=-331/2619, 12-13=-105/585           WEBS         3-19=-132/86, 3-18=-234/188, 4-18=-79/858,<br>8-14=-79/860, 9-14=-231/188, 9-13=-132/86,<br>2-19=-248/2047, 10-13=-246/2044,<br>5-16=0/237, 5-18=-949/261, 6-16=0/230,<br>6-14=-954/262           NOTES         1)           Unbalanced roof live loads have been considered for<br>this design |   |   |   |   |  |   |  |   |                            | 2                             |                          | SCOTT<br>SEVI                    | ER<br>BER<br>D18807                |

nis design.

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January 29,2025

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 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 | Roof - HM Lot 200        |           |
|------------|-------|--------------|-----|-----|--------------------------|-----------|
| P250041-01 | A13   | Roof Special | 1   | 1   | Job Reference (optional) | 171039423 |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 28 08:55:50 ID:yke?GTAx8twMClkl2h7mO2z8PrJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Page: 1



#### Scale = 1:72.7

| Plate Offsets (  | (X, Y): [2:0-1-4,0-5  | -0], [6:0-2-12,Edge], [7   | :0-4-0,0-2-1                            | ], [11:0-4-1,0-  | 0-5]  |  |  |                              |                               |                               |                          |                                  |                                    |
|--|---|--|---|--|---|--|--|------------------------------|-------------------------------|-------------------------------|--------------------------|----------------------------------|------------------------------------|
| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL                             | (psi<br>25.<br>10.<br>0.<br>10.   | <ul> <li>Spacing</li> <li>Plate Grip DOL</li> <li>Lumber DOL</li> <li>Rep Stress Incr</li> <li>Code</li> </ul>                                     | 2-0-0<br>1.15<br>1.15<br>YES<br>IRC2018 | 3/TPI2014  | CSI<br>TC<br>BC<br>WB<br>Matrix-S   | 0.74<br>0.82<br>0.73   | <b>DEFL</b><br>Vert(LL)<br>Vert(CT)<br>Horz(CT)  | in<br>-0.17<br>-0.34<br>0.04 | (loc)<br>15-17<br>15-17<br>11 | l/defl<br>>999<br>>675<br>n/a | L/d<br>240<br>180<br>n/a | PLATES<br>MT20<br>Weight: 190 lb | <b>GRIP</b><br>197/144<br>FT = 20% |
| JODE   | 10.   |  | 11(02010                                | 0/11/2014  | Matrix 0  |  |  |                              | -                             |                               |                          | Weight. 150 lb                   | 11 = 2070                          |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>SLIDER<br>BRACING<br>TOP CHORD | 2x4 SP No.2 *Ex<br>2x4 SP No.2<br>2x3 SPF No.2 *E<br>18-2:2x4 SP 240<br>Right 2x4 SP No<br>Structural wood<br>5-6-12 oc purlins<br>2-0-0 oc purlins | cept* 4-6,6-7:2x6 SPF<br>xcept* 15-7:2x4 SP No<br>0F 2.0E<br>.2 2-11-6<br>sheathing directly appli<br>, except end verticals,<br>6-0-0 max.): 4-7. | 2)<br>No.2<br>.2,<br>ed or<br>and       | Wind: ASCE<br>Vasd=91mpl<br>Ke=1.00; Ca<br>exterior zone<br>Interior (1) 4<br>14-1-13, Inte<br>29-8-0 to 34<br>cantilever lef<br>right expose<br>for reactions<br>DOL=1.60 | 7-16; Vult=115mµ<br>;; TCDL=6.0psf; E<br>t. II; Exp C; Enclose<br>and C-C Exterior<br>-1-8 to 9-1-13, Ext<br>rior (1) 14-1-13 to<br>-8-12, Interior (1) 3<br>t and right exposed<br>d;C-C for member<br>shown; Lumber E | oh (3-sec<br>3CDL=6.0<br>sed; MW<br>(2E) -0-1<br>2erior(2R<br>29-8-0,<br>34-8-12 t<br>ed; end v<br>s and for<br>0OL=1.60 | ond gust)<br>)psf; h=35ft;<br>FRS (envelop<br>0-8 to 4-1-8,<br>) 9-1-13 to<br>Exterior(2R)<br>0 40-0-0 zone<br>rertical left an<br>rces & MWFR<br>) plate grip | oe)<br>o;<br>d<br>:S         |                               |                               |                          |                                  |                                    |
| WEBS   | bracing, Excep<br>6-0-0 oc bracing<br>1 Row at midpt  | ctiy applied or 10-0-0 o<br>::<br>: 15-17.<br>7-15   | c 3)<br>4)                              | Provide adeo<br>This truss ha<br>chord live loa  | quate drainage to<br>as been designed<br>ad nonconcurrent   | prevent<br>for a 10.0<br>with any  | water ponding<br>) psf bottom<br>other live loa  | j.<br>ds.                    |                               |                               |                          |                                  |                                    |
| REACTIONS  | (size) 11= N<br>18=0-<br>Max Horiz 18=-9<br>Max Uplift 11=-1<br>18=-1<br>Max Grav 11=77<br>18=81  | echanical, 15=0-3-8,<br>5-8<br>3 (LC 17)<br>45 (LC 13), 15=-399 (L0<br>79 (LC 12)<br>8 (LC 1), 15=2088 (LC<br>4 (LC 25)                            | 5)<br>C 12), 6)<br>7)<br>1),            | Bearings are<br>capacity of 5<br>of 565 psi.<br>Refer to gird<br>Provide mec<br>bearing plate<br>joint 11, 399   | assumed to be: J<br>65 psi, Joint 15 Sl<br>er(s) for truss to tr<br>hanical connection<br>capable of withst<br>lb uplift at joint 15  | loint 18 S<br>P No.2 c<br>russ conr<br>n (by oth<br>canding 1<br>5 and 17S   | SP No.2 crush<br>rushing capao<br>nections.<br>ers) of truss t<br>45 lb uplift at<br>0 lb uplift at jo   | iing<br>bity<br>o<br>int     |                               |                               |                          |                                  |                                    |
| FORCES   | (lb) - Maximum (<br>Tension   | Compression/Maximum  | 8)                                      | This truss is<br>International   | designed in accor<br>Residential Code   | dance w<br>sections  | ith the 2018<br>R502.11.1 a  | nd                           |                               |                               |                          |                                  | ~                                  |
| TOP CHORD  | 1-2=0/32, 2-3=-4<br>4-5=-680/216, 5-<br>8-9=-713/185, 9-<br>2-18=-398/161   | 41/114, 3-4=-814/197,<br>7=-21/471, 7-8=-786/24<br>11=-1196/230,   | 45, 9)                                  | R802.10.2 a<br>Graphical pu<br>or the orienta  | nd referenced star<br>Irlin representation<br>ation of the purlin   | ndard AN<br>n does no<br>along the   | ISI/TPI 1.<br>ot depict the s<br>top and/or  | ize                          |                               |                               | b                        | THE OF M                         | AISSOL                             |
| BOT CHORD  | 17-18=-263/877,<br>13-15=-10/650,<br>11-12=-132/977   | 15-17=-280/128,<br> 2-13=-132/977,   | LC                                      | DAD CASE(S)  | Standard  |  |  |                              |                               |                               | Ro.                      | S SCOTT                          | ER                                 |
| NEBS   | 4-17=-125/113, 3<br>7-15=-1274/209,<br>8-13=-126/495, 9<br>3-18=-643/178, 5<br>5-17=-186/1020   | 5-15=-1281/452,<br>7-13=-214/185,<br>9-13=-479/195, 9-12=0/<br>3-17=-243/183,  | 210,                                    |  |   |  |  |                              |                               | 4                             |                          | NUME<br>PE-20010                 | BER<br>D18807                      |
| NOTES<br>1) Unbalance<br>this design                                       | ed roof live loads h<br>n.  | ave been considered fo   | r                                       |  |   |  |  |                              |                               |                               |                          | SIONA                            | L ENG.                             |

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)

ΤΙΟΝ IEW DEVELOPMENT SERVICES LEE'S' SUMMIT'S MISSOURI 02/04/2025 11:09:48

January 29,2025

| Job        | Truss | Truss Type   | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|--------------|-----|-----|--------------------------|-----------|
| P250041-01 | A14   | Roof Special | 1   | 1   | Job Reference (optional) | 171039424 |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 28 08:55:50 ID:MJK8uVCpQoIx3lStkqgT?gz8PrG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



#### Scale = 1:72.7

| Plate Offsets (  | X, Y): [4:0-1-12,0-5-4]  | ], [6:0-4-0,0-2-1], [10  | :0-4-1,0-0-  | 5], [18:Edge,0  | -6-8]  |   |  |  |                               |                               |                          |                                  |                                    |
|--|--|--|--|---|--|---|--|--|-------------------------------|-------------------------------|--------------------------|----------------------------------|------------------------------------|
| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL   | (psf)<br>25.0<br>10.0<br>0.0<br>10.0   | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code   | 2-0-0<br>1.15<br>1.15<br>YES<br>IRC2018                        | 3/TPI2014   | <b>CSI</b><br>TC<br>BC<br>WB<br>Matrix-S   | 0.78<br>0.54<br>0.75  | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)   | in<br>-0.10<br>-0.21<br>0.04                             | (loc)<br>10-11<br>10-11<br>10 | l/defl<br>>999<br>>999<br>n/a | L/d<br>240<br>180<br>n/a | PLATES<br>MT20<br>Weight: 186 lb | <b>GRIP</b><br>197/144<br>FT = 20% |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>SLIDER<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>REACTIONS | 2x4 SP No.2 *Excep<br>2x4 SP No.2<br>2x3 SPF No.2 *Exce<br>No.2<br>Right 2x4 SP No.2<br>Structural wood shea<br>4-10-1 oc purlins, e:<br>2-0-0 oc purlins (6-0<br>Rigid ceiling directly<br>bracing.<br>1 Row at midpt<br>(size) 10= Mech<br>18=0-5-8<br>Max Horiz 18=-98 (L<br>Max Uplift 10=-141 (<br>18=-180 (<br>Max Grav 10=761 (L<br>18=794 (L | t* 3-4,4-6:2x6 SPF N<br>pt* 14-6,18-2:2x4 SP<br>- 2-11-7<br>athing directly applied<br>xcept end verticals, a<br>+0 max.): 3-6.<br>applied or 6-0-0 oc<br>3-16, 6-14<br>hanical, 14=0-3-8,<br>C 17)<br>LC 13), 14=-399 (LC<br>LC 12)<br>C 1), 14=2127 (LC 1<br>C 25) | 2)<br>o.2<br>d or<br>ind<br>3)<br>4)<br>5)<br>12), 6)<br>), 7) | Wind: ASCE<br>Vasd=91mph<br>Ke=1.00; Car<br>exterior zone<br>Interior (1) 4-<br>12-5-13, Inte<br>29-8-0 to 34-<br>cantilever lef<br>right exposed<br>for reactions<br>DOL=1.60<br>Provide aded<br>This truss ha<br>chord live loa<br>Bearings are<br>capacity of 5<br>of 565 psi.<br>Refer to girdd<br>Provide med<br>bearing plate | 7-16; Vult=115mj<br>;; TCDL=6.0psf; E<br>i: II; Exp C; Enclo-<br>and C-C Exterior<br>1-8 to 7-5-13, Ext<br>rior (1) 12-5-13 to<br>9-15, Interior (1) 3<br>and right expose<br>t;C-C for member<br>shown; Lumber E<br>uate drainage to<br>s been designed<br>id nonconcurrent<br>assumed to be: J<br>65 psi, Joint 14 Si<br>er(s) for truss to tr<br>nanical connection<br>capable of withst<br>built of the start of the start of the start<br>shown; Lumber E<br>1-10, 1-10 | bh (3-sec<br>3CDL=6.(<br>sed; MW<br>(2E) -0-1<br>terior(2R,<br>29-8-0,<br>34-9-15 t<br>d; end \v<br>s and for<br>OCL=1.60<br>prevent \v<br>for a 10.0<br>with any<br>loint 18 §<br>P No.2 c<br>uss conr<br>n (by oth<br>tanding 1<br>and 20 | oond gust)<br>Dpsf; h=35ft;<br>FRS (envelo<br>0-8 to 4-1-8,<br>7-5-13 to<br>Exterior(2R)<br>0 40-0-0 zon-<br>vertical left ar<br>ces & MWFF<br>0 plate grip<br>water ponding<br>0 psf bottom<br>other live loa<br>P No.2 crushing capa<br>vections.<br>ers) of truss for<br>41 lb uplift at in | pe)<br>e;<br>nd<br>RS<br>g.<br>ds.<br>hing<br>city<br>to |                               |                               |                          |                                  |                                    |
| FORCES   | (lb) - Maximum Com<br>Tension  | pression/Maximum   | 8)   | 14.   | designed in accor  | dance w   | ith the 2018   | лп   |                               |                               |                          |                                  |                                    |

International Residential Code sections R502.11.1 and

Graphical purlin representation does not depict the size

R802.10.2 and referenced standard ANSI/TPI 1.

or the orientation of the purlin along the top and/or

 
 TOP CHORD
 1-2=0/32, 2-3=-975/207, 3-5=-240/113, 5-6=-101/811, 6-7=-716/241, 7-8=-905/232, 8-10=-1133/246, 2-18=-730/230

 BOT CHORD
 17-18=-355/641, 16-17=-172/765, 14-16=-170/114, 12-14=-30/581, 11-12=0/556, 10-11=-146/927

 WEBS
 3-17=0/313, 3-16=-654/149, 5-16=-5/499, 5-14=-1414/418, 6-14=-1591/265,

#### 6-12=-17/184, 7-12=-75/153, 7-11=-93/421, 8-11=-316/215, 2-17=-60/237

### NOTES

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



January 29,2025

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9)

bottom chord.

LOAD CASE(S) Standard



| Job        | Truss | Truss Type | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P250041-01 | B1    | Hip Girder | 1   | 1   | Job Reference (optional) | 171039425 |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 28 08:55:50 ID:fovi0FVzmW7zkll3usvyLgzsQYc-RfC?PsB70Hg3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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TION

**DEVELOPMEN** SERVICES

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| Job        | Truss | Truss Type | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P250041-01 | B2    | Нір        | 1   | 1   | Job Reference (optional) | 171039426 |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 28 08:55:50 ID:fovi0FVzmW7zkll3usvyLgzsQYc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



| L   | UMBER       |   | 4) | This truss has been designed for a 10.0 psf bottom       |            |
|-----|-------------|---|----|--|------------|
| Т   | OP CHORD    | 2x4 SP No.2 *Except* 3-4:2x4 SP 2400F         |    | chord live load nonconcurrent with any other live loads. |            |
|     |             | 2.0E  | 5) | Refer to girder(s) for truss to truss connections.       |            |
| В   | OT CHORD    | 2x4 SP No.2                                   | 6) | Provide mechanical connection (by others) of truss to    |            |
| N   | /EBS        | 2x3 SPF No.2 *Except* 6-5:2x4 SP No.2         |    | bearing plate capable of withstanding 104 lb uplift at   |            |
| S   | LIDER       | Left 2x4 SP No.2 3-6-9                        | 7) | Joint 1 and 98 ib uplift at joint 6.                     |            |
| В   | RACING      |   | () | International Residential Code sections P502 11 1 and    |            |
| Т   | OP CHORD    | Structural wood sheathing directly applied or |    | R802 10 2 and referenced standard ANSI/TPI 1             |            |
|     |             | 4-2-15 oc purlins, except end verticals, and  | 8) | Graphical purlin representation does not depict the size |            |
| Б   |             | 2-0-0 oc purins (6-0-0 max.): 3-4.            | 0) | or the orientation of the purlin along the top and/or    |            |
| Б   | OT CHORD    | kigid ceiling directly applied or 10-0-0 oc   |    | bottom chord.  |            |
| W   | /EBS        | 1 Row at midpt 3-7                            | LC | AD CASE(S) Standard                                      |            |
| R   | FACTIONS    | (size) 1= Mechanical 6= Mechanical            |    |  |            |
|     |             | Max Horiz $1=71$ (LC 11)                      |    |  |            |
|     |             | Max Uplift 1=-104 (LC 12), 6=-98 (LC 13)      |    |  |            |
|     |             | Max Grav 1=908 (LC 1), 6=908 (LC 1)           |    |  |            |
| F   | ORCES       | (Ib) - Maximum Compression/Maximum            |    |  |            |
|     |             | Tension                                       |    |  |            |
| Т   | OP CHORD    | 1-3=-1428/319, 3-4=-1132/329,                 |    |  |            |
|     |             | 4-5=-1349/303, 5-6=-856/234                   |    |  |            |
| В   | OT CHORD    | 1-9=-232/1174, 7-9=-234/1170, 6-7=-109/250    |    |  |            |
| N   | /EBS        | 3-9=0/308, 3-7=-167/106, 4-7=0/236,           |    |  |            |
|     |             | 5-7=-109/889                                  |    |  |            |
| N   | OTES        |   |    |  | A          |
| 1   | ) Unbalanc  | ed roof live loads have been considered for   |    |  | BA         |
| ~   | this desig  | n.<br>OF 7.40: ) ():                          |    |  | AS         |
| - 2 | ) vvind: AS | CE 7-16; Vuit=115mpn (3-second gust)          |    |  | <i>N</i> 1 |

2) Wind: ASCE 7-16; Vull=115mpn (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 6-5-6, Exterior(2R) 6-5-6 to 13-6-4, Interior (1) 13-6-4 to 14-2-10, Exterior(2E) 14-2-10 to 20-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.



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RELEASE IOR ON TRUCTION AS NOTED ON PLANS REVIEW DEVELORMENT SERVICES LEE'S SUMMIT MISSOURI 02/04/2025 11:09:48

| Job        | Truss | Truss Type | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P250041-01 | B3    | Нір        | 1   | 1   | Job Reference (optional) | 171039427 |

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Scale = 1:42.9

#### Plate Offsets (X, Y): [1:0-2-8,0-1-5], [5:Edge,0-7-13]

|   | ( ) <b>(</b> )  |   |   |  |   |   |  |                              |                          |                               |                          |   |                                    |
|---|---|---|---|--|---|---|--|------------------------------|--------------------------|-------------------------------|--------------------------|---|------------------------------------|
| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL  | (psf)<br>25.0<br>10.0<br>0.0<br>10.0  | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code  | 2-0-0<br>1.15<br>1.15<br>YES<br>IRC2018/TF  | PI2014   | CSI<br>TC<br>BC<br>WB<br>Matrix-S   | 0.51<br>0.63<br>0.20  | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)   | in<br>-0.12<br>-0.25<br>0.03 | (loc)<br>1-9<br>1-9<br>6 | l/defl<br>>999<br>>968<br>n/a | L/d<br>240<br>180<br>n/a | PLATES<br>MT20<br>Weight: 89 lb                 | <b>GRIP</b><br>244/190<br>FT = 20% |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>SLIDER<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS  | 2x4 SP 2400F 2.0E<br>No.2<br>2x4 SP No.2 *Exce<br>Left 2x4 SP No.2 *Exce<br>Left 2x4 SP No.2 *Exce<br>6-0-0 oc purlins, ex<br>2-0-0 oc purlins, ex<br>2-0-0 oc purlins (5-6<br>Rigid ceiling directly<br>bracing.<br>(size) 1= Mecha<br>Max Horiz 1=86 (LC<br>Max Uplift 1=-121 (L<br>Max Grav 1=908 (LC<br>(lb) - Maximum Com<br>Tension | *Except* 3-4:2x4 SP<br>ept* 6-5:2x4 SP No.2<br>4-5-12<br>athing directly applie<br>cept end verticals, ar<br>-5 max.): 3-4.<br>applied or 10-0-0 oc<br>anical, 6= Mechanica<br>16)<br>C 12), 6=-116 (LC 1:<br>C 1), 6=908 (LC 1)<br>apression/Maximum | 4) TI<br>ct<br>5) R<br>6) P<br>be<br>7) TI<br>nd R<br>8) G<br>c<br>c<br>bc<br>1<br>LOAD | his truss has<br>hord live loac<br>efer to girde<br>rovide mech<br>earing plate<br>init 1 and 11/<br>his truss is d<br>itternational F<br>802.10.2 an-<br>irraphical purt<br>rthe orientat<br>ottom chord.<br><b>D CASE(S)</b> | been designed f<br>d nonconcurrent t<br>r(s) for truss to tru<br>anical connectior<br>capable of withst<br>6 lb uplift at joint (<br>lesigned in accorr<br>Residential Code<br>d referenced star<br>lin representation<br>ion of the purlin a<br>Standard | for a 10.0<br>with any<br>uss conr<br>(by oth<br>anding 1<br>6.<br>dance w<br>sections<br>dard AN<br>does no<br>along the | ) psf bottom<br>other live loz<br>nections.<br>ers) of truss :<br>21 lb uplift a<br>ith the 2018<br>; R502.11.1 a<br>ISI/TPI 1.<br>ot depict the<br>e top and/or | ads.<br>to<br>and<br>size    |                          |                               |                          |   |                                    |
| TOP CHORD<br>BOT CHORD<br>WEBS  | 1-3=-1305/289, 3-4=<br>4-5=-1259/280, 5-6=<br>1-9=-190/1048, 7-9=<br>3-9=0/270, 3-7=-178  | =-1017/318,<br>=-831/243<br>=-192/1045, 6-7=-156<br>8/123, 4-7=-10/220,   | 6/444   |  |   |   |  |                              |                          |                               |                          |   |                                    |
| NOTES<br>1) Unbalanc<br>this desig<br>2) Wind: AS<br>Vasd=911<br>Ke=1.00;<br>exterior za<br>Interior (1<br>Exterior(2<br>20-2-4 zo<br>vertical le<br>forces & M<br>DOL=1.60<br>3) Provide a | ed roof live loads have<br>n.<br>CE 7-16; Vult=115mph<br>mph; TCDL=6.0psf; BC<br>Cat. II; Exp C; Enclose<br>one and C-C Exterior(2)<br>) 5-0-0 to 8-1-6, Exterior<br>R) 12-6-10 to 19-7-8, I<br>ne; cantilever left and r<br>ft and right exposed;C-<br>WWFRS for reactions s<br>0 plate grip DOL=1.60<br>dequate drainage to pr          | been considered for<br>(3-second gust)<br>DL=6.0psf; h=35ft;<br>d; MWFRS (envelop<br>E) 0-0-0 to 5-0-0,<br>or(2E) 8-1-6 to 12-6-<br>nterior (1) 19-7-8 to<br>ight exposed ; end<br>C for members and<br>hown; Lumber<br>event water ponding           | e)<br>10,   |  |   |   |  |                              |                          | 1                             |                          | TE OF M<br>SCOT<br>SEVI<br>PE-20010<br>PE-20010 | MISSOLA<br>T.M.<br>ER<br>018807    |

January 29,2025

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| Job        | Truss | Truss Type | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P250041-01 | B4    | Нір        | 1   | 1   | Job Reference (optional) | 171039428 |

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Page: 1



#### Scale = 1:53 Plate Offsets (X, Y): [1:0-3-8,Edge]

|  |   |  |                                 |   |   |  |  |                              |                            |                               |                          |                |                        | _ |
|--|---|--|---------------------------------|---|---|--|--|------------------------------|----------------------------|-------------------------------|--------------------------|----------------|------------------------|---|
| Loading<br>TCLL (roof)<br>TCDL<br>BCLL                                     | (psf)<br>25.0<br>10.0<br>0.0  | <b>Spacing</b><br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr                                  | 2-0-0<br>1.15<br>1.15<br>YES    |   | CSI<br>TC<br>BC<br>WB   | 0.32<br>0.85<br>0.87   | <b>DEFL</b><br>Vert(LL)<br>Vert(CT)<br>Horz(CT)  | in<br>-0.21<br>-0.44<br>0.04 | (loc)<br>1-11<br>1-11<br>8 | l/defl<br>>999<br>>556<br>n/a | L/d<br>240<br>180<br>n/a | PLATES<br>MT20 | <b>GRIP</b><br>244/190 | - |
| BCDL   | 10.0  | Code   | IRC2018                         | 3/TPI2014   | Matrix-S  |  |  |                              |                            |                               |                          | Weight: 95 lb  | FT = 20%               |   |
| LUMBER<br>TOP CHORE<br>BOT CHORE<br>WEBS<br>SLIDER<br>BRACING<br>TOP CHORE | <ul> <li>2x4 SP No.2</li> <li>2x4 SP No.2</li> <li>2x3 SPF No.2 *Exce<br/>Left 2x4 SP No.2 3</li> <li>Structural wood she<br/>5-2-6 oc purlins, exi<br/>2-0-0 oc purlins (6-0)</li> </ul> | pt* 8-7:2x4 SP No.2<br>3-2-0<br>athing directly applie<br>cept end verticals, ar<br>-0 max.): 4-5. | 4)<br>5)<br>6)<br>d or 7)<br>nd | This truss ha<br>chord live loa<br>Refer to girdd<br>Provide mec<br>bearing plate<br>joint 1 and 13<br>This truss is<br>International<br>R802.10.2 ar<br>Graphical pu | s been designed for<br>ad nonconcurrent w<br>er(s) for truss to tru<br>hanical connection<br>capable of withsta<br>31 lb uplift at joint 8<br>designed in accord<br>Residential Code s<br>nd referenced stand<br>fin representation | or a 10.0<br>rith any<br>ss conr<br>(by oth<br>nding 1<br>ance w<br>sections<br>dard AN<br>does no | ) psf bottom<br>other live loa<br>iections.<br>ers) of truss t<br>35 lb uplift at<br>ith the 2018<br>i R502.11.1 a<br>ISI/TPI 1.<br>t depict the s | ds.<br>o<br>ind              |                            |                               |                          |                |                        | - |
| 301 CHORL  | Rigid ceiling directly<br>bracing   | applied or 10-0-0 oc   | ; 0)                            | or the orienta  | ation of the purlin al  | ong the  | top and/or   | 120                          |                            |                               |                          |                |                        |   |
| REACTIONS  | (size) 1= Mecha<br>Max Horiz 1=102 (LC<br>Max Uplift 1=-135 (L<br>Max Grav 1=908 (LC  | nical, 8= Mechanica<br>C 16)<br>C 12), 8=-131 (LC 13<br>C 1), 8=908 (LC 1)                         | l <b>LC</b><br>3)               | bottom chorc<br>DAD CASE(S)   | l.<br>Standard  |  |  |                              |                            |                               |                          |                |                        |   |
| FORCES   | (lb) - Maximum Com<br>Tension   | pression/Maximum   |                                 |   |   |  |  |                              |                            |                               |                          |                |                        |   |
| TOP CHORE  | 1-3=-1378/329, 3-4=<br>4-5=-897/266, 5-6=-<br>7-8=-309/113  | 1085/268,<br>1078/270, 6-7=-389/   | 88,                             |   |   |  |  |                              |                            |                               |                          |                |                        |   |
| BOT CHORE  | 0 1-11=-263/1135, 9-1<br>8-9=-230/1087  | 1=-100/906,  |                                 |   |   |  |  |                              |                            |                               |                          |                |                        |   |
| WEBS   | 4-11=-56/318, 4-9=-<br>6-8=-955/244, 3-11=  | 166/101, 5-9=-75/27<br>-306/217, 6-9=-264/   | 5,<br>205                       |   |   |  |  |                              |                            |                               |                          | Contra Contra  | ADD                    |   |
| NOTES  |   |  |                                 |   |   |  |  |                              |                            |                               |                          | OF N           | AIS C                  |   |
| 1) Unbalan   | ced roof live loads have  | been considered for  |                                 |   |   |  |  |                              |                            |                               | 1                        | 750            | N.O.                   |   |
| this desi  | gn.   |  |                                 |   |   |  |  |                              |                            |                               | B                        | N/ SCOT        | M NA                   |   |
| 2) Wind: AS  | SCE 7-16; Vult=115mph   | (3-second gust)  |                                 |   |   |  |  |                              |                            |                               | R                        |                |                        |   |
| Vasd=91  | mph; TCDL=6.0psf; BC  | DL=6.0psf; h=35ft;   |                                 |   |   |  |  |                              |                            |                               | 11                       | SEVI           |                        |   |
| Ke=1.00  | ; Cat. II; Exp C; Enclose   | d; MWFRS (envelop  | e)                              |   |   |  |  |                              |                            |                               | 20                       | 1 12 2         | 0.                     |   |
| exterior 2   | cone and C-C Exterior(2   | E) 0-0-0 to 5-0-0,   |                                 |   |   |  |  |                              |                            |                               | <b>W</b> .               |                | Xanana                 | 5 |
| Interior (   | 1) 5-0-0 to 9-9-6, Exterio  | or(2E) 9-9-6 to  | 4                               |   |   |  |  |                              |                            | *                             | AL.                      | NUM            | SLA THE                | / |
| 10-10-10   | , Exterior(∠R) 10-10-10   | to 17-11-8, Interior (   | 1)                              |   |   |  |  |                              |                            |                               | N3                       | PE-2001        | 018807                 |   |

17-11-8 to 20-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

January 29,2025

SSIONAL





E

| Job        | Truss | Truss Type | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P250041-01 | B5    | Common     | 3   | 1   | Job Reference (optional) | 171039429 |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries. Inc. Tue Jan 28 08:55:51 ID:yke?GTAx8twMClkl2h7mO2z8PrJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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LUMBER

Loading

TCDL

BCLL

BCDL

| TOP CHORD | 2X4 SP N    | 0.2                                  |
|-----------|-------------|--------------------------------------|
| BOT CHORD | 2x4 SP N    | 0.2                                  |
| WEBS      | 2x3 SPF I   | No.2 *Except* 7-6:2x4 SP No.2        |
| SLIDER    | Left 2x4 S  | SP No.2 2-11-7                       |
| BRACING   |             |                                      |
| TOP CHORD | Structural  | l wood sheathing directly applied or |
|           | 4-5-14 oc   | purlins, except end verticals.       |
| BOT CHORD | Rigid ceili | ing directly applied or 10-0-0 oc    |
|           | bracing.    |                                      |
| REACTIONS | (size)      | 1= Mechanical, 7= Mechanical         |
|           | Max Horiz   | 1=108 (LC 12)                        |
|           | Max Uplift  | 1=-138 (LC 12), 7=-134 (LC 13)       |
|           | Max Grav    | 1=908 (LC 1), 7=908 (LC 1)           |
| FORCES    | (lb) - Max  | imum Compression/Maximum             |
|           | Tension     | ·                                    |
| TOP CHORD | 1-3=-143    | 1/365, 3-4=-1255/381,                |
|           |             |                                      |

4-5=-1221/372, 5-6=-309/105, 6-7=-259/110 BOT CHORD 1-10=-295/1181, 8-10=-133/827, 7-8=-262/1123 WFBS 4-8=-103/405, 5-8=-249/200, 4-10=-114/460,

3-10=-289/212, 5-7=-1080/253

#### 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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-2-5, Interior (1) 5-2-5 to 10-4-0, Exterior(2R) 10-4-0 to 15-5-11, Interior (1) 15-5-11 to 20-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 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) Refer to girder(s) for truss to truss connections.

joint 1 and 134 lb uplift at joint 7. This truss is designed in accordance with the 2018 6) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

bearing plate capable of withstanding 138 lb uplift at

LOAD CASE(S) Standard



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| Job        | Truss | Truss Type | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P250041-01 | C1    | Hip Girder | 1   | 1   | Job Reference (optional) | 171039430 |

-0-10-8

0-10-8

3-1-6

3-1-6

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 28 08:55:51 ID:jPnxbZUjEutFVR9gmRtUFFzsQYe-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

11-6-0

2-7-6

8-10-10

5-9-4

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CTION **IEW** 

DEVELOPMENT SERVICES LEE'S' SUMMIT'S MISSOURI 02/04/2025 11:09:48







Scale = 1:33.3

Plate Offsets (X, Y): [9:0-2-8,0-2-12]

|  |  | -  |   |  |   |  |  |   |                     |                        |                   |   |                                       |
|--|--|--|---|--|---|--|--|---|---------------------|------------------------|-------------------|---|---------------------------------------|
| Loading<br>TCLL (roof)<br>TCDL<br>BCU  | (psf)<br>25.0<br>10.0  | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr   | 2-0-0<br>1.15<br>1.15<br>NO   |  | CSI<br>TC<br>BC<br>WB   | 0.98<br>0.50<br>0.26   | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)   | in<br>-0.05<br>-0.10<br>0.01                                      | (loc)<br>7-8<br>7-8 | l/defl<br>>999<br>>999 | L/d<br>240<br>180 | PLATES<br>MT20  | <b>GRIP</b><br>197/144                |
| BCDL   | 10.0   | Code   | IRC2018   | 3/TPI2014  | Matrix-S  | 0.20   | 1012(01)   | 0.01  | 0                   | n/a                    | n/a               | Weight: 50 lb   | FT = 20%                              |
| LUMBER<br>TOP CHORD<br>3OT CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>3OT CHORD<br>REACTIONS<br>FORCES<br>TOP CHORD<br>3OT CHORD<br>WEBS<br>NOTES<br>1) Unbalance<br>this design<br>2) Wind: ASC<br>Vasd=91m<br>Ke=1.00; (<br>exterior zo<br>and right e<br>exposed;C<br>Oreations s<br>DOL=1.60<br>3) Provide ad<br>4) This truss<br>chord live 1<br>5) Bearings a<br>capacity of<br>6) Refer to gi | 2x4 SP No.2<br>2x4 SP No.2<br>2x3 SPF No.2 *Exce<br>Structural wood she<br>5-7-10 oc purlins, e<br>2-0-0 oc purlins (2-1<br>Rigid ceiling directly<br>bracing.<br>(size) 6= Mecha<br>Max Horiz 9=59 (LC<br>Max Uplift 6=-140 (L<br>Max Grav 6=746 (LC<br>(Ib) - Maximum Com<br>Tension<br>1-2=0/32, 2-3=-981/<br>4-5=-862/279, 2-9=-<br>8-9=-114/129, 7-8=-<br>3-8=0/171, 3-7=-134<br>2-8=-187/752, 5-7=-<br>cd roof live loads have<br>L<br>E 7-16; Vult=115mph<br>uph; TCDL=6.0psf; BC<br>cat. II; Exp C; Enclose<br>ne and C-C Exterior(2<br>xposed ; end vertical I<br>-C for members and f<br>shown; Lumber DOL='<br>lequate drainage to pr<br>has been designed foi<br>load nonconcurrent wi<br>re assumed to be: Joi<br>565 psi.<br>rder(s) for truss to trus | ept* 9-2,6-5:2x4 SP N<br>athing directly applie<br>xcept end verticals, a<br>0-13 max.): 3-4.<br>applied or 10-0-0 oc<br>nical, 9=0-5-8<br>11)<br>C 13), 9=-168 (LC 12<br>C 1), 9=800 (LC 1)<br>pression/Maximum<br>316, 3-4=-769/301,<br>691/288, 5-6=-631/20<br>286/853, 6-7=-40/45<br>V/47, 4-7=-69/131,<br>211/757<br>been considered for<br>(3-second gust)<br>DL=6.0psf; h=35ft;<br>d; MWFRS (envelop<br>E) zone; cantilever le<br>eft and right<br>orces & MWFRS for<br>1.60 plate grip<br>event water ponding.<br>r a 10.0 psf bottom<br>th any other live load<br>nt 9 SP No.2 crushin<br>ss connections. | 7)<br>io.2 8)<br>d or 9)<br>10]<br>11]<br>2) LO<br>11]<br>2) LO<br>58<br>e)<br>sft<br>s.<br>g | Provide mecl<br>bearing plate<br>joint 9 and 14<br>This truss is a<br>International<br>R802.10.2 ar<br>Graphical pu<br>or the orienta<br>bottom chorce<br>) "NAILED" inc<br>per NDS guid<br>) In the LOAD<br>of the truss a<br><b>PAD CASE(S)</b><br>Dead + Roc<br>Plate Increas<br>Uniform Loa<br>Vert: 1-2:<br>Concentrate<br>Vert: 3=-<br>12=-134 | hanical connection<br>capable of withsta<br>40 lb uplift at joint 6<br>designed in accord<br>Residential Codes<br>and referenced stand<br>tition of the purlin a<br>discates Girder: 3-10<br>delines.<br>CASE(S) section,<br>re noted as front (If<br>Standard<br>of Live (balanced):<br>use=1.15<br>ads (lb/ft)<br>=-70, 2-3=-70, 3-4=<br>ad Loads (lb)<br>19 (F), 4=-19 (F), 14 | (by other<br>inding 1<br>i.<br>ance wisections<br>dard AN<br>does not<br>long the<br>od (0.14<br>loads ap<br>F) or bar<br>Lumber<br>=-70, 4-5<br>0=-59 (<br>=-19 (F) | ers) of truss<br>68 lb uplift a<br>th the 2018<br>R502.11.1 a<br>SI/TPI 1.<br>t depict the<br>top and/or<br>8" x 3") toe-<br>pplied to the<br>ck (B).<br>Increase=1.<br>5=-70, 6-9=-2<br>F), 11=-59 (F | to<br>t<br>and<br>size<br>nails<br>face<br>15,<br>20<br>E),<br>F) |                     |                        |                   | THE OF M<br>STATE OF M<br>SEVI<br>PE-20010<br>PE-20010<br>DE DE 20010<br>DE 20010 | MISSOLUE<br>MER<br>DI8807<br>L ENGINE |

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| Job        | Truss | Truss Type | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P250041-01 | C2    | Нір        | 1   | 1   | Job Reference (optional) | 171039431 |

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#### Scale = 1:30.1 Plate Offsets (X, Y): [9:0-2-8 0-2-12]

| Plate Offsets (   | A, T). [9.0-2-0,0-2-12  | .]   |   |   |  |  |  |                              |                          |                               |                          |                                 |                                    |  |
|---|---|--|---|---|--|--|--|------------------------------|--------------------------|-------------------------------|--------------------------|---------------------------------|------------------------------------|--|
| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL                                    | (psf)<br>25.0<br>10.0<br>0.0<br>10.0  | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code   | 2-0-0<br>1.15<br>1.15<br>YES<br>IRC2018     | 3/TPI2014   | CSI<br>TC<br>BC<br>WB<br>Matrix-S  | 0.31<br>0.17<br>0.13   | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)   | in<br>-0.01<br>-0.03<br>0.00 | (loc)<br>8-9<br>8-9<br>6 | l/defl<br>>999<br>>999<br>n/a | L/d<br>240<br>180<br>n/a | PLATES<br>MT20<br>Weight: 52 lb | <b>GRIP</b><br>197/144<br>FT = 20% |  |
| UMBER<br>OP CHORD<br>OT CHORD<br>VEBS<br>BRACING<br>OP CHORD                      | 2x4 SP No.2<br>2x4 SP No.2<br>2x3 SPF No.2 *Exce<br>Structural wood she<br>6-0-0 oc purlins, ex<br>2-0-0 oc purlins (6-0                                      | ppt* 9-2,6-5:2x4 SP N<br>athing directly applie<br>cept end verticals, au<br>-0 max.): 3-4.                                      | 6)<br>7)<br>No.2<br>8)<br>ed or<br>nd<br>9) | Refer to gird<br>Provide mec<br>bearing plate<br>9 and 63 lb u<br>This truss is<br>International<br>R802.10.2 a<br>Graphical pu | er(s) for truss to tru<br>hanical connection<br>e capable of withsta<br>uplift at joint 6.<br>designed in accord<br>Residential Code<br>nd referenced stan<br>urlin representation | uss conr<br>(by oth<br>anding s<br>dance w<br>sections<br>dard AN<br>does no | ections.<br>ers) of truss<br>4 lb uplift at<br>5 R502.11.1 at<br>ISI/TPI 1.<br>bt depict the | to<br>joint<br>and<br>size   |                          |                               |                          |                                 |                                    |  |
| BOT CHORD   | Rigid ceiling directly<br>bracing.<br>(size) 6= Mecha   | applied or 10-0-0 or<br>anical, 9=0-5-8  | c<br>LC                                     | or the orienta<br>bottom chore<br>DAD CASE(S)   | ation of the purlin a<br>d.<br>Standard  | long the   | e top and/or   |                              |                          |                               |                          |                                 |                                    |  |
|   | Max Horiz 9=70 (LC<br>Max Uplift 6=-63 (LC<br>Max Grav 6=501 (LC  | 11)<br>C 13), 9=-94 (LC 12)<br>C 1), 9=579 (LC 1)  |   |   |  |  |  |                              |                          |                               |                          |                                 |                                    |  |
| ORCES   | (lb) - Maximum Com<br>Tension   | pression/Maximum   |   |   |  |  |  |                              |                          |                               |                          |                                 |                                    |  |
| OP CHORD  | 1-2=0/32, 2-3=-650/<br>4-5=-610/240, 2-9=-  | 250, 3-4=-489/266,<br>533/286, 5-6=-458/2  | 217   |   |  |  |  |                              |                          |                               |                          |                                 |                                    |  |
| SOT CHORD<br>VEBS   | 8-9=-217/268, 7-8=-<br>3-8=0/128, 3-7=-100<br>2-8=-17/266, 5-7=-9   | 179/510, 6-7=-76/12<br>)/51, 4-7=-35/99,<br>3/375  | 22  |   |  |  |  |                              |                          |                               |                          |                                 |                                    |  |
| OTES  |   |  |   |   |  |  |  |                              |                          |                               |                          |                                 |                                    |  |
| ) Unbalance<br>this design<br>!) Wind: ASC<br>Vasd=91n<br>Ke=1.00;<br>exterior co | ed roof live loads have<br>n.<br>CE 7-16; Vult=115mph<br>nph; TCDL=6.0psf; BC<br>Cat. II; Exp C; Enclose<br>one and C-C Exterior(2<br>4-1.8 to 4-9-6 Exterior | been considered for<br>(3-second gust)<br>DL=6.0psf; h=35ft;<br>d; MWFRS (envelop<br>E) -0-10-8 to 4-1-8,<br>(2E) 4-9-6 to 11-4- | r<br>be)<br>4                               |   |  |  |  |                              |                          |                               |                          | STATE OF I                      | MISSOUR<br>I M.<br>ER              |  |

- grip DOL=1.603) Provide adequate drainage to prevent water ponding.4) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.5) Bearings are assumed to be: Joint 9 SP No.2 crushing

zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate

 Bearings are assumed to be: Joint 9 SP No.2 crushing capacity of 565 psi.



E

January 29,2025

NUMB

SSIONAL

PE-200101880

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| Job        | Truss | Truss Type | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P250041-01 | C3    | Common     | 2   | 1   | Job Reference (optional) | 171039432 |

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#### Scale = 1:33.1

#### Plate Offsets (X, Y): [7:Edge,0-4-13]

|                              |                               | -                         |               |               |                         |           |                |             |       |             |     |                 |             |
|------------------------------|-------------------------------|---------------------------|---------------|---------------|-------------------------|-----------|----------------|-------------|-------|-------------|-----|-----------------|-------------|
| Loading                      | (psf)                         | Spacing<br>Plate Grip DOI | 2-0-0<br>1 15 |               | CSI                     | 0.48      | DEFL           | in<br>-0.03 | (loc) | l/defl      | L/d | PLATES          | <b>GRIP</b> |
|                              | 10.0                          |                           | 1.15          |               | BC                      | 0.40      | Vert(CT)       | -0.05       | 6-7   | ~999        | 180 | 101120          | 137/144     |
| BCU                          | 0.0                           | Ren Stress Incr           | VES           |               | WB                      | 0.00      | Horz(CT)       | 0.00        | 5     | >000<br>n/a | n/a |                 |             |
| BCDL                         | 10.0                          | Code                      | IRC201        | 8/TPI2014     | Matrix-S                | 0.10      | 11012(01)      | 0.01        | 5     | Π/a         | Π/a | Weight: 51 lb   | FT = 20%    |
|                              | 1010                          | 0000                      |               | 0,1112011     | indian e                |           |                |             |       |             |     | itoigini o'i io | 2070        |
| UMBER                        |                               |                           | 6)            | Provide mec   | hanical connection      | ı (by oth | ers) of truss  | to          |       |             |     |                 |             |
| FOP CHORE                    | 2x4 SP No.2                   |                           |               | bearing plate | capable of withst       | anding 1  | 03 lb uplift a | t           |       |             |     |                 |             |
| BOT CHORE                    | 2x4 SP No.2                   |                           | 7)            | joint / and / | 3 Ib uplift at joint 5. |           | ith the 2010   |             |       |             |     |                 |             |
| NEBS                         | 2x3 SPF No.2 *Exce            | ept* 7-2,5-4:2x4 SP N     | No.2 /)       | Inis truss is | Designed in accord      | Jance w   |                | nd          |       |             |     |                 |             |
| BRACING                      |                               |                           |               |               | d referenced stan       |           | 191/TDI 1      | anu         |       |             |     |                 |             |
| FOP CHORE                    | Structural wood she           | athing directly applie    | ed or         |               | Stondard                | luaru Ar  | 131/TFTT.      |             |       |             |     |                 |             |
|                              | 6-0-0 oc purlins, ex          | cept end verticals.       |               | JAD CASE(S)   | Stanuaru                |           |                |             |       |             |     |                 |             |
| BOT CHORL                    | Rigid ceiling directly        | applied or 9-5-7 oc       |               |               |                         |           |                |             |       |             |     |                 |             |
|                              | bracing.                      |                           |               |               |                         |           |                |             |       |             |     |                 |             |
| REACTIONS                    | (size) 5= Mecha               | inical, 7=0-5-8           |               |               |                         |           |                |             |       |             |     |                 |             |
|                              | Max Horiz 7=79 (LC            | 11)                       | ,             |               |                         |           |                |             |       |             |     |                 |             |
|                              | Max Uplift 5=-73 (LC          | 5 13), 7=-103 (LC 12)     | )             |               |                         |           |                |             |       |             |     |                 |             |
|                              | Max Grav 5=501 (LC            | 51), 7=579 (LC1)          |               |               |                         |           |                |             |       |             |     |                 |             |
| ORCES                        | (lb) - Maximum Com<br>Tension | pression/Maximum          |               |               |                         |           |                |             |       |             |     |                 |             |
| FOP CHORE                    | 1-2=0/32, 2-3=-607/2          | 256, 3-4=-591/263,        |               |               |                         |           |                |             |       |             |     |                 |             |
|                              | 2-7=-526/309, 4-5=-           | 453/241                   |               |               |                         |           |                |             |       |             |     |                 |             |
| BOT CHORE                    | 6-7=-388/401, 5-6=-           | 107/178                   |               |               |                         |           |                |             |       |             |     |                 |             |
| NEBS                         | 3-6=0/212, 2-6=-66/2          | 221, 4-6=-61/286          |               |               |                         |           |                |             |       |             |     |                 |             |
| NOTES                        |                               |                           |               |               |                         |           |                |             |       |             |     |                 |             |
| ) Unbalan                    | ced roof live loads have      | been considered for       | •             |               |                         |           |                |             |       |             |     |                 |             |
| this desig                   | jn.                           |                           |               |               |                         |           |                |             |       |             |     |                 |             |
| <ol> <li>Wind: A8</li> </ol> | CE 7-16; Vult=115mph          | (3-second gust)           |               |               |                         |           |                |             |       |             |     | 000             | ADD         |
| Vasd=91                      | mph; TCDL=6.0psf; BC          | DL=6.0psf; h=35ft;        |               |               |                         |           |                |             |       |             |     | 8 OF M          | MIC.        |
| Ke=1.00                      | Cat. II; Exp C; Enclose       | d; MWFRS (envelop         | e)            |               |                         |           |                |             |       |             |     | BIE             | 000         |
| exterior 2                   | cone and C-C Exterior(2       | (2D) = 0.10-8  to  4-1-8, | ^             |               |                         |           |                |             |       |             | 6   | AT              | N.S.        |
| Interior (                   | 1) 4-1-8 10 6-0-0, Exterio    | Dr(ZR) 6-0-0 to 11-0-     | U,<br>riaht   |               |                         |           |                |             |       |             | B   | SCOT            | ΓM. YEY     |
| exposed                      | end vertical left and riv     | the exposed C-C for       | nynt          |               |                         |           |                |             |       |             | R   | / SEVI          | ER \ Y      |
| member                       | and forces & MWFRS            | for reactions shown       |               |               |                         |           |                |             |       |             | 21  |                 | \★Ŋ         |
| Lumber                       | OOL=1.60 plate grip DO        | L=1.60                    |               |               |                         |           |                |             |       |             | X   | 1.45            | :Xn when    |
|                              | p g. p = 0                    |                           |               |               |                         |           |                |             |       |             |     |                 |             |

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: Joint 7 SP No.2 crushing capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.

# NUMBER PE-2001018807 January 29,2025

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| Job        | Truss | Truss Type | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P250041-01 | D1    | Hip Girder | 1   | 1   | Job Reference (optional) | 171039433 |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 28 08:55:51 ID:jPnxbZUjEutFVR9gmRtUFFzsQYe-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f D---

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#### Plate Offsets (X, Y): [2:0-2-1,0-0-5], [7:0-4-1,0-0-5]

| 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  | 0.37   | Vert(LL)  | -0.02                   | 2-10  | >999   | 240 | MT20          | 197/144    |   |
| TCDL  | 10.0  | Lumber DOL   | 1.15           |  | BC  | 0.45   | Vert(CT)  | -0.03                   | 2-10  | >999   | 180 |               |            |   |
| BCLL  | 0.0   | Rep Stress Incr  | NO             |  | WB  | 0.06   | Horz(CT)  | 0.01                    | 7     | n/a    | n/a |               |            |   |
| BCDL  | 10.0  | Code   | IRC201         | 8/TPI2014  | Matrix-P  |  |   |                         |       |        |     | Weight: 38 lb | FT = 20%   |   |
| JUMBER<br>FOP CHORE<br>3OT CHORE<br>WEBS<br>SLIDER<br>BRACING | 2x4 SP No.2<br>2x4 SP No.2<br>2x3 SPF No.2<br>Left 2x4 SP No.2 1<br>No.2 1-8-3                          | I-8-14, Right 2x4 SP   | 6)<br>7)<br>8) | Provide mec<br>bearing plate<br>joint 2 and 1<br>This truss is<br>International<br>R802.10.2 and<br>Graphical pu | hanical connection<br>e capable of withsta<br>72 lb uplift at joint 7<br>designed in accord<br>Residential Code<br>and referenced stan<br>rlin representation | (by oth<br>anding 1<br>7.<br>dance w<br>sections<br>dard AN<br>does no | ers) of truss<br>65 lb uplift a<br>ith the 2018<br>R502.11.1 a<br>ISI/TPI 1.<br>ot depict the | to<br>tt<br>and<br>size |       |        |     |               |            |   |
| FOP CHORE   | <ul> <li>Structural wood sheat</li> <li>6-0-0 oc purlins, exc</li> <li>2-0-0 oc purlins (6-0</li> </ul> | athing directly applie<br>ept<br>-0 max.): 4-5.                                      | d or<br>9)     | or the orienta<br>bottom chore<br>"NAILED" inc   | ation of the purlin a<br>d.<br>dicates Girder: 3-10   | llong the<br>Dd (0.14  | e top and/or<br>8" x 3") toe-   | nails                   |       |        |     |               |            |   |
| BOT CHORE   | <ul> <li>Rigid ceiling directly<br/>bracing.</li> </ul>   | applied or 10-0-0 oc   | : 10           | per NDS gui<br>) In the LOAD   | delines.<br>CASE(S) section,  | loads a  | oplied to the   | face                    |       |        |     |               |            |   |
| REACTIONS   | (size) 2=0-5-8, 7<br>Max Horiz 2=36 (LC<br>Max Uplift 2=-165 (L<br>Max Grav 2=620 (LC                   | 7=0-3-8<br>12)<br>C 12), 7=-172 (LC 13<br>C 1), 7=642 (LC 1)                         | L(<br>3) 1)    | of the truss a<br>DAD CASE(S)<br>Dead + Roo<br>Plate Increa  | are noted as front (<br>Standard<br>of Live (balanced):<br>ase=1.15   | F) or ba<br>Lumbei   | ck (B).<br>Increase=1.  | .15,                    |       |        |     |               |            |   |
| ORCES   | (lb) - Maximum Com<br>Tension   | pression/Maximum   |                | Vert: 1-4  | aus (ib/it)<br>=-70, 4-5=-70, 5-8=  | =-70, 2-   | 7=-20   |                         |       |        |     |               |            |   |
| TOP CHORE   | 1-2=0/0, 2-4=-765/28<br>5-7=-742/280, 7-8=0   | 81, 4-5=-575/285,<br>//0   |                | Vert: 4=-  | 59 (F), 5=-59 (F), 1  | 10=-19 (   | F), 9=-19 (F)   | ),                      |       |        |     |               |            |   |
| <b>3OT CHORE</b>  | 2-10=-160/600, 9-10   | =-161/592, 7-9=-154  | 1/583          | 11=-134  | (F), 12=-134 (F)  |  |   |                         |       |        |     |               |            |   |
| NEBS  | 4-10=0/182, 4-9=-53   | 6/24, 5-9=0/179  |                |  |   |  |   |                         |       |        |     |               |            |   |
| NOTES   |   |  |                |  |   |  |   |                         |       |        |     |               | The        |   |
| <ol> <li>Unbaland<br/>this deside</li> </ol>                  | ed roof live loads have   | been considered for  |                |  |   |  |   |                         |       |        |     | E OF I        | MISSO      |   |
| 2) Wind: AS<br>Vasd=91<br>Ke=1.00;<br>exterior z              | ,<br>CE 7-16; Vult=115mph<br>mph; TCDL=6.0psf; BC<br>Cat. II; Exp C; Enclose<br>one and C-C Exterior(2  | (3-second gust)<br>DL=6.0psf; h=35ft;<br>d; MWFRS (envelop<br>E) zone; cantilever le | e)<br>eft      |  |   |  |   |                         |       |        | AL. | STATE SCOT    | T M.<br>ER | à |
| and right<br>exposed;<br>reactions                            | exposed ; end vertical I<br>C-C for members and for<br>shown; Lumber DOL=1                              | eft and right<br>prces & MWFRS for<br>1.60 plate grip                                |                |  |   |  |   |                         |       | 1      | B.  | att           | Servie     |   |

Provide adequate drainage to prevent water ponding.
 This truss has been designed for a 10.0 psf bottom

DOL=1.60

chord live load nonconcurrent with any other live loads.5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

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January 29,2025

PE-200101880'

SIONAL

| Job        | Truss | Truss Type | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P250041-01 | D2    | Common     | 4   | 1   | Job Reference (optional) | 171039434 |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 28 08:55:51 ID:7jxefnJxXb6EpH4\_yVdChlzsQYs-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Loading

TCDL

BCLL

BCDL

WEBS

SLIDER

BRACING

FORCES

WEBS

NOTES

LUMBER

Wind: ASCE 7-16; Vult=115mph (3-second gust) 2) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 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.
- All bearings are assumed to be SP No.2 crushing 4) capacity of 565 psi.



January 29,2025

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| Job        | Truss | Truss Type | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P250041-01 | E1    | Hip Girder | 1   | 1   | Job Reference (optional) | 171039435 |

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8

TION /IEW

DEVERSION SERVICES LEE'S'SUMMIT'S MISSOURI 02/04/2025 11:09:48



Scale = 1:42.3

| Plate Offsets (X, Y): | [2:Edae.0-2-10]. | [7:Edge.0-2-10] |
|-----------------------|------------------|-----------------|

|  |  |   |   | -                           |  |   |   |   |                                    |                              |                               |                          |   |   |   |
|--|--|---|---|-----------------------------|--|---|---|---|------------------------------------|------------------------------|-------------------------------|--------------------------|---|---|---|
| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL   | (  | (psf)<br>25.0<br>10.0<br>0.0  | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr  | 2-0-0<br>1.15<br>1.15<br>NO | 8/1701014  | CSI<br>TC<br>BC<br>WB<br>Matrix-S   | 0.83<br>0.99<br>0.18  | <b>DEFL</b><br>Vert(LL)<br>Vert(CT)<br>Horz(CT)   | in<br>-0.08<br>-0.14<br>0.05       | (loc)<br>12-13<br>12-13<br>7 | l/defl<br>>999<br>>999<br>n/a | L/d<br>240<br>180<br>n/a | PLATES<br>MT20  | <b>GRIP</b><br>197/144                    |   |
| BCDL   |  | 10.0  | Code  | IKC201                      | 0/1712014  | Iviatilix-5   |   |   |                                    |                              | -                             |                          | weight. 91 ib   | FT = 2076                                 |   |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS | 2x4 SP No.2<br>2.0E<br>2x6 SPF No.2<br>2x3 SPF No.2<br>Structural wo<br>3-3-12 oc pur<br>2-0-0 oc purli<br>Rigid ceiling of<br>bracing.<br>(size) 2=(<br>Max Horiz 2=( | *Except<br>2<br>od shea<br>rlins, exi<br>ns (5-3-<br>directly<br>0-3-8, 7<br>63 (LC | * 4-5:2x4 SP 2400F<br>athing directly applied<br>cept<br>-8 max.): 4-5.<br>applied or 9-7-3 oc<br>=0-5-8<br>16) | 2)<br>d or<br>3)<br>4)      | Wind: ASCE<br>Vasd=91mpl<br>Ke=1.00; Ca<br>exterior zone<br>Interior (1) 4<br>13-4-2, Exter<br>to 21-6-8 zor<br>vertical left a<br>forces & MW<br>DOL=1.60 pl<br>Provide ader<br>This truss ha<br>chord live loa | 7-16; Vult=115mpt<br>; TCDL=6.0psf; BC<br>t. II; Exp C; Enclose<br>and C-C Exterior(<br>1-8 to 7-3-14, Exterior(2n) 13-4-2 to 2<br>he; cantilever left ar<br>nd right exposed; C<br>FRS for reactions s<br>ate grip DOL=1.60<br>uate drainage to p<br>s been designed for<br>ad nonconcurrent ware<br>are assumed to bo | n (3-sec<br>CDL=6.0<br>cDL=6.0<br>ed; MW<br>2E) -0-1<br>rior(2E)<br>0-5-4, lind<br>right<br>-C for n<br>shown;<br>revent v<br>or a 10.0<br>vith any<br>SEE M: | ond gust)<br>psf; h=35ft;<br>FRS (envelop<br>0-8 to 4-1-8,<br>7-3-14 to<br>nterior (1) 20-<br>exposed ; en<br>nembers and<br>Lumber<br>water ponding<br>0 psf bottom<br>other live loa<br>2 c gusting | 5-4<br>d<br>g.<br>ds.              |                              |                               |                          |   |   |   |
| FORCES   | Max Uplift 2=-<br>Max Grav 2=-<br>(lb) - Maximum   | -301 (L0<br>1498 (L<br>m Com  | C 8), 7=-306 (LC 9)<br>C 1), 7=1509 (LC 1)<br>pression/Maximum  | 5)<br>6)                    | capacity of 4<br>Provide mec<br>bearing plate  | are assumed to be<br>25 psi.<br>hanical connection<br>capable of withsta  | (by oth<br>Inding 3   | o.2 crusning<br>ers) of truss t<br>01 lb uplift at  | 0                                  |                              |                               |                          |   |   |   |
| TOP CHORD  | 1-2=0/6, 2-3=<br>4-5=-1977/54<br>6-7=-2718/69  | =-2756/7<br> 9, 5-6=-<br> 6, 7-8=   | 704, 3-4=-2193/569,<br>-2182/565,<br>0/6  | 7)                          | Joint 2 and 3<br>This truss is<br>International<br>R802.10.2 a   | D6 lb uplift at joint 7<br>designed in accord<br>Residential Code s<br>ad referenced stand  | ance w<br>sections<br>dard AN   | ith the 2018<br>R502.11.1 a   | nd                                 |                              |                               |                          |   |   |   |
| BOT CHORD  | 2-13=-584/24<br>10-12=-412/1<br>7-9=-563/235   | 01, 12-<br>987, 9-<br>6   | 13=-584/2401,<br>10=-563/2356,  | 8)                          | Graphical pu<br>or the orienta   | rlin representation<br>ation of the purlin al   | does no<br>long the   | ot depict the s<br>top and/or   | ize                                |                              |                               |                          |   |   |   |
| WEBS   | 4-12=-72/458<br>3-12=-477/22<br>6-10=-439/21   | 8, 4-10≕<br>21, 3-13∺<br>6, 6-9≕  | -142/124, 5-10=-56/4<br>=-87/426,<br>-87/423  | 141, 9)                     | Use Simpson<br>2-10d Truss,<br>9-10-11 oc n  | Strong-Tie LUS24<br>Single Ply Girder)<br>nax. starting at 3-4-   | 4 (4-10c<br>or equiv<br>10 from   | lx1 1/2 Girder<br>/alent spaced<br>the left end t   | ,<br>Lat                           |                              |                               |                          | TE OF M   | AISSO                                     |   |
| NOTES<br>1) Unbalance<br>this design   | ad roof live load:<br>h.   | is have i   | been considered for   | 1(<br>11<br>LC<br>1)        | 17-3-6 to cor<br>) Fill all nail ho<br>) In the LOAD<br>of the truss a<br><b>DAD CASE(S)</b><br>Dead + Roo<br>Plate Increa<br>Uniform Lo<br>Vert: 1-4<br>Concentrat<br>Vert: 16=<br>(F)                          | nect truss(es) to fr<br>les where hanger i<br>CASE(S) section, I<br>re noted as front (F<br>Standard<br>of Live (balanced): I<br>ase=1.15<br>ads (lb/ft)<br>=-70, 4-5=-70, 5-8=<br>ed Loads (lb)<br>278 (F), 17=-238 (  | ont face<br>s in cor<br>loads aj<br>-) or ba<br>Lumber<br>70, 2-1<br>(F), 18=   | e of bottom ch<br>tact with lumi<br>pplied to the f<br>ck (B).<br>Increase=1. <sup>-</sup><br>7=-20<br>238 (F), 19=   | nord.<br>ber.<br>ace<br>15,<br>278 |                              | ļ                             |                          | SCOTT<br>SEVI<br>NUM<br>PE-20010<br>PE-20010<br>January | M. P.<br>ER<br>18807<br>L ENGL<br>29,2025 | כ |

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| Job        | Truss | Truss Type | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P250041-01 | E2    | Нір        | 1   | 1   | Job Reference (optional) | 171039436 |

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28 08:55:52 Page: 1





Scale = 1:45.1

### Plate Offsets (X, Y): [2:0-4-3,Edge], [9:0-4-3,Edge], [12:0-5-0,0-3-0]

|   | (psf)   | Spacing  | 2-0-0  |  | CSI   | 0.46   | DEFL   | in<br>0.21                                   | (loc)     | l/defl      | L/d        | PLATES        | GRIP            |   |
|---|---|--|--|--|---|--|--|--|-----------|-------------|------------|---------------|-----------------|---|
|   | 25.0  | Plate Grip DOL   | 1.10   |  | IC<br>PC  | 0.46   | Vert(LL)   | -0.21  | 2-13      | >999        | 100        | WI120         | 197/144         |   |
|   | 10.0  | Lumber DOL   | 1.15   |  |   | 0.87   | Ven(CT)  | -0.43  | 2-13      | >5/1        | 180        |               |                 |   |
| BULL  | 0.0   | Rep Stress Incr  | TES  | TDIAGAA  | VVB   | 0.25   |  | 0.05   | 9         | n/a         | n/a        |               | <b>FT</b> 000/  |   |
| BCDL  | 10.0  | Code   | IRC2018  | TPI2014  | Matrix-S  |  |  |  |           |             |            | weight: 93 lb | FI = 20%        |   |
| TCDL<br>BCLL<br>BCDL<br>LUMBER<br>TOP CHORI<br>BOT CHORI<br>BOT CHORI<br>BOT CHORI<br>REACTIONS<br>FORCES<br>TOP CHORI<br>BOT CHORI<br>BOT CHORI<br>BOT CHORI<br>WEBS | 10.0<br>0.0<br>10.0<br>2x4 SP No.2<br>2x3 SPF No.2<br>Left 2x4 SP No.2<br>Left 2x4 SP No.2<br>Left 2x4 SP No.2<br>Left 2x4 SP No.2<br>Computing (State<br>2-0-0 oc purling (State<br>2-0-3-8, State<br>2-0-3-8, State<br>2-0-3-8, State<br>2-0-3-8, State<br>2-0-3-8, State<br>2-0-3-8, State<br>2-0-0 oc purling (State<br>2-0-3-8, State<br>2-0-3-8, State<br>2-0-3 | Lumber DOL<br>Rep Stress Incr<br>Code<br>2-6-11, Right 2x4 SP<br>athing directly applied<br>(ccept<br>-1 max.): 5-6.<br>applied or 10-0-0 oc<br>9=0-5-8<br>12)<br>C 12), 9=-162 (LC 13<br>C 12), 9=991 (LC 1)<br>pression/Maximum<br>388, 4-5=-1308/268,<br>=-1310/268,<br>==0/0<br>-13=-110/1144,<br>=-153/165, 6-11=-37/2<br>=-343/228 | 1.15<br>YES<br>IRC2018,<br>4)<br>5)<br>6)<br>d or 7)<br>8)<br>3) LO. | TPI2014<br>Provide adec<br>This truss ha<br>chord live loa<br>All bearings a<br>capacity of 5<br>Provide mecl<br>bearing plate<br>joint 2 and 16<br>Unis truss is s<br>International<br>R802.10.2 ar<br>Graphical pu<br>or the orienta<br>bottom chord<br>AD CASE(S) | BC<br>WB<br>Matrix-S<br>upuate drainage to p<br>s been designed for<br>d nonconcurrent w<br>are assumed to be<br>55 psi.<br>nanical connection<br>capable of withsta<br>22 lb uplift at joint 9<br>designed in accord<br>Residential Codes<br>and referenced stand<br>rin representation<br>tion of the purlin at<br>Standard | 0.87<br>0.25<br>revent to<br>or a 10.0<br>ith any<br>SP No.<br>(by oth<br>nding 1<br>ance w<br>sections<br>dard AN<br>does no<br>ong the | Vert(CT)<br>Horz(CT)<br>water ponding<br>0 psf bottom<br>other live load<br>2 crushing<br>ers) of truss to<br>62 lb uplift at<br>ith the 2018<br>R502.11.1 at<br>ISI/TPI 1.<br>of depict the s<br>top and/or | -0.43<br>0.05<br>J.<br>ds.<br>o<br>nd<br>ize | 2-13<br>9 | >571<br>n/a | 180<br>n/a | Weight: 93 lb | FT = 20%        |   |
| 1) Unhalan  | ced roof live loads have  | been considered for  |  |  |   |  |  |  |           |             | A          | N             | Nes /           | 6 |
| this desi   |   |  |  |  |   |  |  |  |           |             | H          | SCOT          | M. YS           | S |
| this desi<br>2) Wind: A<br>Vasd=9<br>Ke=1.00<br>exterior<br>Interior<br>10-11-5,<br>18-0-2 to<br>end vert<br>forces &   | gn.<br>SCE 7-16; Vult=115mph<br>imph; TCDL=6.0psf; BC<br>; Cat. II; Exp C; Enclose<br>zone and C-C Exterior(2<br>1) 4-1-8 to 9-8-11, Exter<br>Exterior(2R) 10-11-5 to<br>o 21-6-8 zone; cantilever<br>cal left and right expose<br>MWFRS for reactions sl   | (3-second gust)<br>DL=6.0psf; h=35ft;<br>d; MWFRS (envelop;<br>E) -0-10-8 to 4-1-8,<br>ior(2E) 9-8-11 to<br>18-0-2, Interior (1)<br>'left and right expose<br>d;C-C for members a<br>hown: Lumber  | e)<br>ed ;<br>and  |  |   |  |  |  |           |             |            | PE-20010      | ER<br>1018807 E |   |
| DOL=1.6   | 60 plate grip DOL=1.60  |  |  |  |   |  |  |  |           |             |            | an            | 555             |   |

January 29,2025





| Job        | Truss | Truss Type    | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|---------------|-----|-----|--------------------------|-----------|
| P250041-01 | E3    | Common Girder | 1   | 2   | Job Reference (optional) | 171039437 |

Loading

TCDL

BCLL

BCDL

WEBS

BRACING

FORCES

TOP CHORD

BOT CHORD

WEBS

NOTES

1)

2)

3)

LUMBER

TCLL (roof)

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 28 08:55:52 ID:7uXnimR7K8Ba\_hMzXeDZ6Uzb?EV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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CTION

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| Job        | Truss | Truss Type  | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|-------------|-----|-----|--------------------------|-----------|
| P250041-01 | J1    | Jack-Closed | 17  | 1   | Job Reference (optional) | 171039438 |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 28 08:55:52 ID:5aNjr0Uh8cTYLkN5pWVR1uzb2LG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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| Scale = | 1:31.4 |
|---------|--------|
|---------|--------|

#### Plate Offsets (X, Y): [2:0-2-3,0-0-3]

| 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       | 0.68 | Vert(LL) | -0.23 | 2-5   | >416   | 240 | MT20          | 197/144  |
| TCDL        | 10.0  | Lumber DOL      | 1.15            | BC       | 0.82 | Vert(CT) | -0.45 | 2-5   | >208   | 180 |               |          |
| BCLL        | 0.0   | Rep Stress Incr | YES             | WB       | 0.00 | Horz(CT) | 0.00  | 5     | n/a    | n/a |               |          |
| BCDL        | 10.0  | Code            | IRC2018/TPI2014 | Matrix-P |      |          |       |       |        |     | Weight: 35 lb | FT = 20% |

| ER   |   | LOAD CASE(S) | Standard |
|--|---|--------------|----------|
| HORD 2x4 SP 2400   | F 2.0E  |              |          |
| HORD 2x4 SP No.2   |   |              |          |
| 2x3 SPF No.  | 2   |              |          |
| R Left 2x4 SP I  | lo.2 4-2-8  |              |          |
| NG   |   |              |          |
| HORD Structural wo   | od sheathing directly applied or  |              |          |
| 6-0-0 oc purl  | ns, except end verticals.   |              |          |
| HORD Rigid ceiling   | directly applied or 9-10-2 oc   |              |          |
| bracing.   |   |              |          |
| TIONS (size) 2=  | 0-5-8, 5= Mechanical  |              |          |
| Max Horiz 2=   | 169 (LC 9)  |              |          |
| Max Uplift 2=  | -82 (LC 12), 5=-94 (LC 12)  |              |          |
| Max Grav 2=  | 417 (LC 1), 5=349 (LC 1)  |              |          |
| ES (Ib) - Maximu   | m Compression/Maximum   |              |          |
| Tension  |   |              |          |
| HORD 1-2=0/0, 2-4=   | -197/136, 4-5=-271/296  |              |          |
| HORD 2-5=-75/81  |   |              |          |
| 5  |   |              |          |
| nd: ASCE 7-16; Vult=1  | 15mph (3-second gust)   |              |          |
| sd=91mph; TCDL=6.0   | psf; BCDL=6.0psf; h=35ft;   |              |          |
| =1.00; Cat. II; Exp C; I   | Enclosed; MWFRS (envelope)  |              |          |
| erior zone and C-C E>  | terior(2E) -0-10-8 to 4-1-8,  |              |          |
| HORD Structural we<br>6-0-0 oc purl<br>HORD Rigid ceiling<br>bracing.<br>TIONS (size) 2=<br>Max Horiz 2=<br>Max Uplift 2=<br>Max Grav 2=<br>ES (Ib) - Maximu<br>Tension<br>HORD 1-2=0/0, 2-4=<br>HORD 2-5=-75/81<br>Mat. ASCE 7-16; Vult=1<br>sd=91mph; TCDL=6.0<br>=1.00; Cat. II; Exp C; I<br>erior zone and C-C Ex- | od sheathing directly applied or<br>ns, except end verticals.<br>directly applied or 9-10-2 oc<br>0-5-8, 5= Mechanical<br>169 (LC 9)<br>-82 (LC 12), 5=-94 (LC 12)<br>417 (LC 1), 5=349 (LC 1)<br>m Compression/Maximum<br>-197/136, 4-5=-271/296<br>15mph (3-second gust)<br>psf; BCDL=6.0psf; h=35ft;<br>inclosed; MWFRS (envelope)<br>terior(2E) -0-10-8 to 4-1-8, |              |          |

- Interior (1) 4-1-8 to 7-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 This truss has been designed for a 10.0 psf bottom 2)
- chord live load nonconcurrent with any other live loads. 3) Bearings are assumed to be: Joint 2 SP No.2 crushing
- capacity of 565 psi. 4)
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to 5) bearing plate capable of withstanding 94 lb uplift at joint 5 and 82 lb uplift at joint 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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| Job        | Truss | Truss Type Qty |   | Ply | Roof - HM Lot 200        |           |
|------------|-------|----------------|---|-----|--------------------------|-----------|
| P250041-01 | J2    | Jack-Closed    | 1 | 1   | Job Reference (optional) | 171039439 |

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Plate Offsets (X, Y): [2:0-2-3,0-0-3]

|               |   |                        |             |                   |                        | -               |       |       |        |     |               |   |
|---------------|---|------------------------|-------------|-------------------|------------------------|-----------------|-------|-------|--------|-----|---------------|---|
| Loading       | (psf)   | Spacing                | 2-0-0       | cs                | 51                     | DEFL            | in    | (loc) | l/defl | L/d | PLATES        | GRIP  |
| TCLL (roof)   | 25.0  | Plate Grip DOL         | 1.15        | тс                | 0.61                   | Vert(LL)        | -0.23 | 2-6   | >416   | 240 | MT20          | 197/144                                     |
| TCDL          | 10.0  | Lumber DOL             | 1.15        | BC                | 0.83                   | Vert(CT)        | -0.45 | 2-6   | >208   | 180 |               |   |
| BCLL          | 0.0   | Rep Stress Incr        | YES         | W                 | B 0.08                 | Horz(CT)        | 0.00  | 6     | n/a    | n/a |               |   |
| BCDL          | 10.0  | Code                   | IRC2018/TPI | 2014 Ma           | atrix-P                |                 |       |       |        |     | Weight: 35 lb | FT = 20%                                    |
| LUMBER        |   |                        | 6) Ref      | er to girder(s)   | for truss to truss co  | nnections.      |       |       |        |     |               |   |
| TOP CHORD     | 2x4 SP No.2   |                        | 7) Pro      | vide mechani      | cal connection (by ot  | hers) of truss  | to    |       |        |     |               |   |
| BOT CHORD     | 2x4 SP No.2   |                        | bea         | iring plate cap   | able of withstanding   | 67 lb uplift at | joint |       |        |     |               |   |
| WEBS          | 2x3 SPF No.2  |                        | 6 ai        | nd 84 lb uplift   | at joint 2.            |                 |       |       |        |     |               |   |
| SLIDER        | Left 2x4 SP No.2 3  | 3-0-4                  | 8) Thi      | s truss is desi   | gned in accordance     | with the 2018   |       |       |        |     |               |   |
| BRACING       | International Residential Code sections R502.11.1 and<br>R8002 10.2 and referenced endered AUS/URL1     |                        |             |                   |                        |                 |       |       |        |     |               |   |
| TOP CHORD     | P CHORD Structural wood sheathing directly applied or R802.10.2 and referenced standard ANSI/TPI 1.     |                        |             |                   |                        |                 |       |       |        |     |               |   |
|               | 6-0-0 oc purlins, except end verticals, and 9) Graphical purlin representation does not depict the size |                        |             |                   |                        |                 |       |       |        |     |               |   |
|               | 2-0-0 oc purlins: 4-5   |                        | or t        | ne onentation     | or the putith along th | ie top and/or   |       |       |        |     |               |   |
| BOT CHORD     | Rigid ceiling directly  | applied or 10-0-0 oc   |             |                   | ondord                 |                 |       |       |        |     |               |   |
|               | bracing.  |                        | LUAD        | <b>JAJE(J)</b> 30 | anuaru                 |                 |       |       |        |     |               |   |
| REACTIONS     | (size) 2=0-5-8, 6   | 6= Mechanical          |             |                   |                        |                 |       |       |        |     |               |   |
|               | Max Horiz 2=118 (LC   | C 9)                   |             |                   |                        |                 |       |       |        |     |               |   |
|               | Max Uplift 2=-84 (LC  | C 12), 6=-67 (LC 9)    |             |                   |                        |                 |       |       |        |     |               |   |
|               | Max Grav 2=417 (LC  | C 1), 6=349 (LC 1)     |             |                   |                        |                 |       |       |        |     |               |   |
| FORCES        | (lb) - Maximum Com<br>Tension   | pression/Maximum       |             |                   |                        |                 |       |       |        |     |               |   |
| TOP CHORD     | 1-2=0/0, 2-4=-263/14  | 40, 4-5=-54/59,        |             |                   |                        |                 |       |       |        |     |               |   |
|               | 5-6=-80/65  |                        |             |                   |                        |                 |       |       |        |     |               |   |
| BOT CHORD     | 2-6=-205/176  |                        |             |                   |                        |                 |       |       |        |     |               |   |
| WEBS          | 4-6=-254/256  |                        |             |                   |                        |                 |       |       |        |     |               |   |
| NOTES         |   |                        |             |                   |                        |                 |       |       |        |     |               |   |
| 1) Unbalanc   | ed roof live loads have   | been considered for    |             |                   |                        |                 |       |       |        |     | 000           | ADD   |
| this desig    | n.  |                        |             |                   |                        |                 |       |       |        |     | 8. OF I       | MICON                                       |
| 2) Wind: AS   | CE 7-16; Vult=115mph  | (3-second gust)        |             |                   |                        |                 |       |       |        | 4   | 9 TE          | 0.0   |
| Vasd=91r      | mph; TCDL=6.0psf; BC  | DL=6.0psf; n=35ft;     | - )         |                   |                        |                 |       |       |        | 6   | N             | N SY  |
| Ke=1.00;      | Cat. II; Exp C; Enclose   |                        | e)          |                   |                        |                 |       |       |        | B   | SCOT          | TM. YEY                                     |
| Interior (1   | 14 1 9 to 5 6 7 Exterior  | E) -0-10-0 10 4-1-0,   | 0           |                   |                        |                 |       |       |        | R   | / SEVI        | ER \Y                                       |
| zone: can     | tilever left and right ext  | onsed : end vertical l | o<br>eft    |                   |                        |                 |       |       |        | 21  |               |   |
| and right     | exposed:C-C for memb  | pers and forces &      | on          |                   |                        |                 |       |       |        | 1 A | ATTS-         | · And · · · · · · · · · · · · · · · · · · · |
| MWFRS         | for reactions shown: Lu   | mber DOL=1.60 plat     | te          |                   |                        |                 |       |       | 6      |     | NUM           | PEP   |
| grip DOL      | DOL=1.60  |                        |             |                   |                        |                 |       |       |        |     |               |   |
| 3) Provide a  | dequate drainage to pr  | event water ponding    |             |                   |                        |                 |       |       |        | N.  | PE-2001       | 10001 A                                     |
| 4) This truss | has been designed for   | r a 10.0 psf bottom    |             |                   |                        |                 |       |       |        | Y   | Pa            | 1.SA  |
| chord live    | load nonconcurrent wi   | th any other live load | ds.         |                   |                        |                 |       |       |        |     | SION          | TENE  |
| 5) Bearings   | are assumed to be: Joi  | nt 2 SP No.2 crushir   | ng          |                   |                        |                 |       |       |        |     | <b>WNA</b>    | L   |
| capacity of   | y of 565 psi.   |                        |             |                   |                        |                 |       |       |        |     |               |   |



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| Job        | Truss | Truss Type         | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|--------------------|-----|-----|--------------------------|-----------|
| P250041-01 | J3    | Jack-Closed Girder | 1   | 1   | Job Reference (optional) | 171039440 |

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NAILED

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NAILED

7-11-4

NAILED

| Scale = 1:29.5 |
|----------------|
|----------------|

#### Plate Offsets (X, Y): [2:0-2-3,0-0-3]

| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL   | (psf)<br>25.0<br>10.0<br>0.0<br>10.0  | <b>Spacing</b><br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code          | 2-0-0<br>1.15<br>1.15<br>NO<br>IRC201   | 8/TPI2014   | <b>CSI</b><br>TC<br>BC<br>WB<br>Matrix-P  | 0.57<br>0.64<br>0.21  | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)   | in<br>0.24<br>-0.42<br>0.00     | (loc)<br>2-6<br>2-6<br>6 | l/defl<br>>386<br>>226<br>n/a | L/d<br>240<br>180<br>n/a | <b>PLATES</b><br>MT20<br>Weight: 33 lb | <b>GRIP</b><br>197/144<br>FT = 20% |
|--|---|--|---|---|---|---|--|---------------------------------|--------------------------|-------------------------------|--------------------------|--|------------------------------------|
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>SLIDER<br>BRACING<br>TOP CHORD<br>BOT CHORD                    | 2x4 SP No.2<br>2x4 SP 2400F 2.0E<br>2x3 SPF No.2<br>Left 2x4 SP No.2 - 1<br>Structural wood shea<br>6-0-0 oc purlins, exc<br>2-0-0 oc purlins; 4-5.<br>Rigid ceiling directly a<br>bracing. | -8-11<br>thing directly applie<br>ept end verticals, a<br>applied or 10-0-0 or     | 7)<br>8)<br>ed or 9)<br>nd 10   | <ul> <li>Provide mec<br/>bearing plate<br/>joint 6 and 1</li> <li>This truss is<br/>International<br/>R802.10.2 a</li> <li>Graphical pu<br/>or the orients<br/>bottom chore</li> <li>"NAILED" in<br/>per NDS gui</li> </ul> | chanical connect<br>e capable of with<br>52 lb uplift at joi<br>designed in acc<br>Residential Co-<br>nd referenced s<br>urlin representat<br>ation of the purli<br>d.<br>dicates Girder: 3<br>delines. | tion (by oth<br>hstanding 1<br>int 2.<br>cordance wi<br>de sections<br>tandard AN<br>ion does no<br>in along the<br>3-10d (0.14 | ers) of truss<br>53 lb uplift a<br>th the 2018<br>R502.11.1 a<br>SI/TPI 1.<br>ot depict the<br>top and/or<br>8" x 3") toe- | to<br>t<br>and<br>size<br>nails |                          |                               |                          |  |                                    |
| REACTIONS  | (size) 2=0-5-8, 6<br>Max Horiz 2=73 (LC 9<br>Max Uplift 2=-152 (LC<br>Max Grav 2=517 (LC  | = Mechanical<br>))<br>C 8), 6=-153 (LC 9)<br>1), 6=453 (LC 1)                      | ) In the LOAD CASE(S) section, loads applied to the face<br>of the truss are noted as front (F) or back (B).<br><b>DAD CASE(S)</b> Standard<br>Dead + Roof Live (balanced): Lumber Increase=1.15,<br>Plate Increase 4 for |   |   |   |  |                                 |                          |                               |                          |  |                                    |
| FORCES   | (lb) - Maximum Comp<br>Tension  | pression/Maximum   |   | Uniform Lo  | ads (lb/ft)<br>.=-70_4-5=-70_2  | 2-6=-20   |  |                                 |                          |                               |                          |  |                                    |
| TOP CHORD  | 1-2=0/0, 2-4=-410/28<br>5-6=-164/131  | 4, 4-5=-33/37,   |   | Concentrat  | ed Loads (lb)   | E 0= 20   | )  |                                 |                          |                               |                          |  |                                    |
| BOT CHORD<br>WEBS  | 2-6=-312/308<br>4-6=-326/306  |  |   | , on a  |   | ), o oo (.  | /  |                                 |                          |                               |                          |  |                                    |
| NOTES  |   |  |   |   |   |   |  |                                 |                          |                               |                          |  |                                    |
| <ol> <li>Unbalance<br/>this design</li> <li>Wind: ASC<br/>Vasd=91r<br/>Ke=1.00;<br/>exterior zo</li> </ol> | ed roof live loads have h<br>n.<br>CE 7-16; Vult=115mph f<br>nph; TCDL=6.0psf; BCE<br>Cat. II; Exp C; Enclosed<br>one and C-C Exterior(2E   | (3-second gust)<br>DL=6.0psf; h=35ft;<br>l; MWFRS (envelop<br>) zone; cantilever I | r<br>be)<br>eft   |   |   |   |  |                                 |                          |                               |                          | STATE OF I                             | MISSOUR                            |

and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 3)

- Provide adequate drainage to prevent water ponding. 4) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. 5) Bearings are assumed to be: Joint 2 SP 2400F 2.0E
- crushing capacity of 805 psi. 6) Refer to girder(s) for truss to truss connections.

 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) DEVELOPMENT SERVICES LEE'S'SUMMIT'SMISSOURI 02/04/2025 11:09:49

PE-200101880

E

TION

IEW

January 29,2025

SIONAL

| Job        | Fruss Truss Type Qty Ply Roof - HM Lot |           | Roof - HM Lot 200 |   |                          |           |
|------------|--|-----------|-------------------|---|--------------------------|-----------|
| P250041-01 | J4                                     | Jack-Open | 6                 | 1 | Job Reference (optional) | 171039441 |

-0-10-8

0-10-8

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 28 08:55:52 ID:hVjIO\_h5mbp5LV\_8wQImPGywoqG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



3x6 =

2-5-6

2-5-6

VERTICAL SUPPORT OF FREE END OF CHORD IS REQUIRED.

|       | 2-5-6  |
|-------|--------|
| 2-0-8 |        |
| 2-0-8 | 0-4-14 |

Scale = 1:27.3

Plate Offsets (X, Y): [5:Edge,0-4-13]

| L <b>oading</b><br>TCLL (roof)<br>TCDL<br>3CLL<br>3CDL   | (psf)<br>25.0<br>10.0<br>0.0<br>10.0   | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code  | 2-0-0<br>1.15<br>1.15<br>YES<br>IRC2018/TPI2014 | <b>CSI</b><br>TC<br>BC<br>WB<br>Matrix-P | 0.43<br>0.10<br>0.12 | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT) | in<br>0.00<br>0.00<br>0.00 | (loc)<br>4-5<br>4-5<br>4 | l/defl<br>>999<br>>999<br>n/a | L/d<br>240<br>180<br>n/a | PLATES<br>MT20<br>Weight: 12 lb               | <b>GRIP</b><br>197/144<br>FT = 20%  |   |
|--|--|---|---|--|----------------------|--|----------------------------|--------------------------|-------------------------------|--------------------------|---|-------------------------------------|---|
| LUMBER<br>TOP CHORD<br>30T CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>30T CHORD<br>REACTIONS   | 2x4 SP No.2<br>2x4 SP No.2<br>2x4 SP No.2 *Excep<br>Structural wood she<br>2-5-6 oc purlins, ex<br>Rigid ceiling directly<br>bracing.<br>(size) 4= Mecha<br>Max Horiz 5=80 (LC<br>Max Uplift 4=-39 (LC   | t* 4-2:2x3 SPF No.2<br>athing directly applie<br>cept end verticals.<br>applied or 8-5-9 oc<br>unical, 5=0-5-8<br>9)<br>2 9). 5=-30 (LC 9)  | LOAD CASE(S)                                    | Standard                                 |                      |  |                            |                          |                               |                          |   |                                     |   |
| FORCES<br>FOP CHORD<br>30T CHORD<br>WEBS<br>NOTES<br>1) Wind: AS<br>Vasd=911<br>Ke=1.00;<br>exterior zi<br>and right<br>exposed;<br>reactions<br>DOL=1.6(  | Max Grav 4=88 (LC<br>(lb) - Maximum Com<br>Tension<br>2-5=-168/142, 1-2=(<br>4-5=-485/290<br>2-4=-297/497<br>CE 7-16; Vult=115mph<br>mph; TCDL=6.0psf; BC<br>Cat. II; Exp C; Enclose<br>one and C-C Exterior(2<br>exposed ; end vertical<br>C-C for members and f<br>shown; Lumber DOL=<br>0 | 1), 5=191 (LC 1)<br>pression/Maximum<br>)/32, 2-3=-72/0<br>(3-second gust)<br>DL=6.0psf; h=35ft;<br>d; MWFRS (envelop<br>E) zone; cantilever I<br>left and right<br>orces & MWFRS for<br>1.60 plate grip          | pe)<br>eft                                      |  |                      |  |                            |                          |                               | Ħ                        | THE OF M                                      | AISSOUR                             |   |
| <ul> <li>2) This truss<br/>chord live</li> <li>3) Bearings<br/>capacity of</li> <li>4) Refer to <u>c</u></li> <li>5) Provide m<br/>bearing p</li> <li>5 and 39</li> <li>6) This truss<br/>Internation<br/>R802.10.2</li> </ul> | b has been designed fo<br>load nonconcurrent wi<br>are assumed to be: Joi<br>of 565 psi.<br>jirder(s) for truss to tru<br>techanical connection i<br>late capable of withstar<br>lb uplift at joint 4.<br>is designed in accorda<br>nal Residential Code so<br>2 and referenced stand        | r a 10.0 psf bottom<br>th any other live load<br>int 5 SP No.2 crushin<br>ss connections.<br>(by others) of truss th<br>nding 30 lb uplift at ju<br>ance with the 2018<br>ections R502.11.1 a<br>lard ANSI/TPI 1. | ds.<br>ng<br>bint                               |  |                      |  |                            |                          | 2                             |                          | SCOT<br>SEVI<br>PE-2001<br>PE-2001<br>January | ER<br>018807<br>L ENGINE<br>29,2025 | 7 |
| WAR  | NING - Verify design parame  | ters and READ NOTES C   | N THIS AND INCLUDED MITEK                       | REFERENCE PAGE MI                        | I-7473 rev           | . 1/2/2023 BEFO                          | RE USE.                    |                          |                               | [                        |   | •                                   | 7 |

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MILEK REFERENCE PAGE MIL-14/3 rev. 1/2/20/3 BEFURE USE.
Design valid for use only with MITER® connectors. This design is based only upon parameters 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
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and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



| Job        | Truss | Truss Type  |   | Ply | Roof - HM Lot 200        |           |  |
|------------|-------|-------------|---|-----|--------------------------|-----------|--|
| P250041-01 | J5    | Jack-Closed | 1 | 1   | Job Reference (optional) | 171039442 |  |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 28 08:55:52 ID:\_rexsNnU7li5ga1UrOwPBlywoq9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Page: 1



Scale = 1:27.9 Plate Offsets (X\_Y): [2:0-2-3.0-0-3]

| Plate Olisets ()  | A, F). [2.0-2-3,0-0-3]  |   |   |   |   |  |  |                              |                          |                               |                          |                                 |                                    |  |
|---|---|---|---|---|---|--|--|------------------------------|--------------------------|-------------------------------|--------------------------|---------------------------------|------------------------------------|--|
| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL  | (psf)<br>25.0<br>10.0<br>0.0<br>10.0  | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code                | 2-0-0<br>1.15<br>1.15<br>YES<br>IRC2018 | /TPI2014  | <b>CSI</b><br>TC<br>BC<br>WB<br>Matrix-P  | 0.61<br>0.83<br>0.08   | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)   | in<br>-0.23<br>-0.45<br>0.00 | (loc)<br>2-6<br>2-6<br>6 | l/defl<br>>416<br>>208<br>n/a | L/d<br>240<br>180<br>n/a | PLATES<br>MT20<br>Weight: 35 lb | <b>GRIP</b><br>197/144<br>FT = 20% |  |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>SLIDER<br>BRACING<br>TOP CHORD<br>BOT CHORD   | 2x4 SP No.2<br>2x4 SP No.2<br>2x3 SPF No.2<br>Left 2x4 SP No.2 3<br>Structural wood she<br>6-0-0 oc purlins; ex<br>2-0-0 oc purlins: 4-5<br>Rigid ceiling directly  | 3-0-4<br>athing directly applie<br>cept end verticals, ar<br>applied or 10-0-0 oc | 6)<br>7)<br>8)<br>nd 9)                 | Refer to gird<br>Provide mecl<br>bearing plate<br>6 and 84 lb u<br>This truss is a<br>International<br>R802.10.2 ar<br>Graphical pu<br>or the orienta<br>bottom chorc | er(s) for truss to the<br>hanical connection<br>capable of withst<br>plift at joint 2.<br>designed in accorr<br>Residential Code<br>ad referenced star<br>rlin representation<br>tion of the purlin a<br>Standard | russ con<br>a (by oth<br>anding 6<br>dance w<br>sections<br>idard AN<br>does no<br>along the | nections.<br>ers) of truss i<br>7 lb uplift at j<br>ith the 2018<br>i R502.11.1 a<br>ISI/TPI 1.<br>ot depict the s<br>top and/or | to<br>joint<br>and<br>size   |                          |                               |                          |                                 |                                    |  |
| REACTIONS   | bracing.         LOAD CASE(S)         Standard           ACTIONS         (size)         2=0-5-8, 6= Mechanical         Max Horiz         2=118 (LC 9)           Max Horiz         2=118 (LC 12), 6=-67 (LC 9)         Max Grav         2=417 (LC 1), 6=-349 (LC 1)  |   |   |   |   |  |  |                              |                          |                               |                          |                                 |                                    |  |
|   | (lb) - Maximum Com<br>Tension   | pression/Maximum  |   |   |   |  |  |                              |                          |                               |                          |                                 |                                    |  |
| BOT CHORD   | 1-2=0/0, 2-4=-263/14<br>5-6=-80/65<br>2-6=-205/176  | 40, 4-5=-54/59,   |   |   |   |  |  |                              |                          |                               |                          |                                 |                                    |  |
| WEBS  | 4-6=-254/256  |   |   |   |   |  |  |                              |                          |                               |                          |                                 |                                    |  |
| NUIES<br>1) Unbalance   | d roof live loads have  | been considered for   |   |   |   |  |  |                              |                          |                               |                          |                                 |                                    |  |
| this design   | l.  |   |   |   |   |  |  |                              |                          |                               |                          | OF                              | ALC D                              |  |
| <ol> <li>Wind: ASC<br/>Vasd=91m<br/>Ke=1.00; C<br/>exterior zo<br/>Interior (1)<br/>zone; canti<br/>and right e<br/>MWFRS fo<br/>grip DOL=</li> <li>Provide ad</li> </ol> | this design.<br>Wind: ASCE 7-16; Vult=115mph (3-second gust)<br>Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft;<br>Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope)<br>exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8,<br>Interior (1) 4-1-8 to 5-6-7, Exterior(2E) 5-6-7 to 7-10-0<br>zone; cantilever left and right exposed ; end vertical left<br>and right exposed; C-C for members and forces &<br>MWFRS for reactions shown; Lumber DOL=1.60 plate<br>grip DOL=1.60<br>PE-2001018807 |   |   |   |   |  |  |                              |                          |                               |                          |                                 |                                    |  |
| <ol> <li>This truss I<br/>chord live I</li> <li>Bearings a<br/>capacity of</li> </ol>   | Provide adequate drainage to prevent water ponding.<br>This truss has been designed for a 10.0 psf bottom<br>chord live load nonconcurrent with any other live loads.<br>Bearings are assumed to be: Joint 2 SP No.2 crushing<br>capacity of 565 psi.   |   |   |   |   |  |  |                              |                          |                               |                          |                                 |                                    |  |
|   |   |   |   |   |   |  |  |                              |                          |                               |                          | January                         | 29,2025                            |  |

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TRUCTION **IEW** DEVELOPMEN SERVICES LEE'S' SUMMIT'S MISSOURI 02/04/2025 11:09:49

| Job        | Truss | Truss Type         | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|--------------------|-----|-----|--------------------------|-----------|
| P250041-01 | J6    | Jack-Closed Girder | 1   | 1   | Job Reference (optional) | 171039443 |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 28 08:55:53 ID:S1CJ3jo6u2qyIjchO6Rekyywoq8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



7-11-4

| Scale | = 1:29.5 |  |
|-------|----------|--|

#### Plate Offsets (X, Y): [2:0-2-3,0-0-3]

| Loading<br>FCLL (roof)<br>FCDL<br>BCLL   | (psf)<br>25.0<br>10.0<br>0.0  | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr  | 2-0-0<br>1.15<br>1.15<br>NO   | PI2014   | CSI<br>TC<br>BC<br>WB<br>Matrix-P  | 0.57<br>0.64<br>0.21   | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)   | in<br>0.24<br>-0.42<br>0.00               | (loc)<br>2-6<br>2-6<br>6 | l/defl<br>>386<br>>226<br>n/a | L/d<br>240<br>180<br>n/a | PLATES<br>MT20     | <b>GRIP</b><br>197/144 |  |
|--|---|---|---|--|--|--|--|---|--------------------------|-------------------------------|--------------------------|--------------------|------------------------|--|
| LUMBER<br>TOP CHORD<br>SOT CHORD<br>WEBS<br>SLIDER<br>BRACING<br>TOP CHORD<br>SOT CHORD<br>REACTIONS   | 2x4 SP No.2<br>2x4 SP 2400F 2.0E<br>2x3 SPF No.2<br>Left 2x4 SP No.2 1<br>Structural wood shea<br>6-0-0 oc purlins; 4-5<br>Rigid ceiling directly<br>bracing.<br>(size) 2=0-5-8, 6<br>Max Horiz 2=73 (LC<br>Max Uplift 2=-152 (L<br>Max Grav 2=517 (LC<br>(b) - Maximum Com | I-8-11<br>athing directly applie<br>cept end verticals, ar<br>applied or 10-0-0 oc<br>S= Mechanical<br>11)<br>C 8), 6=-153 (LC 9)<br>C 1), 6=453 (LC 1)<br>pression/Maximum | 7) P<br>b<br>jc<br>8) T<br>Ir<br>R<br>dor 9) G<br>id b<br>10) "f<br>11) Ir<br>c<br>LOAL<br>1) | Provide mecle<br>earing plate<br>bint 6 and 15<br>his truss is of<br>the mational<br>802.10.2 ar<br>Graphical pu<br>r the orienta<br>ottom chord<br>NAILED" inc<br>er NDS guid<br>the LOAD<br>the the truss a<br><b>D CASE(S)</b><br>Dead + Roce<br>Plate Increa | hanical connection<br>capable of withst<br>52 lb uplift at joint is<br>designed in accorr<br>Residential Code<br>nd referenced star<br>rlin representation<br>ation of the purlin a<br>l.<br>dicates Girder: 3-1<br>delines.<br>CASE(S) section,<br>re noted as front (<br>Standard<br>of Live (balanced):<br>ise=1.15 | n (by oth<br>anding 1<br>2.<br>dance w<br>sections<br>idard AN<br>does no<br>along the<br>0d (0.14<br>loads aj<br>F) or ba<br>Lumber | ers) of truss t<br>53 lb uplift at<br>th the 2018<br>R502.11.1 a<br>ISI/TPI 1.<br>ti depict the s<br>top and/or<br>8" x 3") toe-r<br>oplied to the f<br>ck (B).<br>Increase=1. | io<br>ind<br>size<br>nails<br>face<br>15, |                          |                               |                          | weight. 33 lb      | PT = 20%               |  |
| TOP CHORD<br>BOT CHORD<br>WEBS   | Tension<br>1-2=0/0, 2-4=-410/28<br>5-6=-164/131<br>2-6=-312/308<br>4-6=-326/306   | 84, 4-5=-33/37,   |   | Uniform Loa<br>Vert: 1-4=<br>Concentrate<br>Vert: 7=-6   | ads (lb/ft)<br>=-70, 4-5=-70, 2-6<br>ed Loads (lb)<br>68 (B), 8=-68 (B),   | =-20<br>9=-68 (E   | )  |   |                          |                               |                          |                    |                        |  |
| <ul> <li>Unbalance<br/>this design<br/>Wind: AS<br/>Vasd=911<br/>Ke=1.00;<br/>exterior z<br/>and right<br/>exposed;<br/>reactions</li> </ul> | ed roof live loads have<br>n.<br>CE 7-16; Vult=115mph<br>nph; TCDL=6.0psf; BC<br>Cat. II; Exp C; Enclose<br>one and C-C Exterior(2<br>exposed ; end vertical I<br>c-C for members and for<br>shown; Lumber DOL=1  | been considered for<br>(3-second gust)<br>DL=6.0psf; h=35ft;<br>d; MWFRS (envelop<br>E) zone; cantilever le<br>eft and right<br>proces & MWFRS for<br>1.60 plate grip       | e)<br>ff  |  |  |  |  |   |                          |                               |                          | STATE OF M<br>SEVI | AISSOLA<br>T.M.<br>ER  |  |

- DOL=1.60 3) Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom 4) chord live load nonconcurrent with any other live loads.
- 5) Bearings are assumed to be: Joint 2 SP 2400F 2.0E crushing capacity of 805 psi.
- 6) Refer to girder(s) for truss to truss connections.

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January 29,2025

PE-200101880

SIONAL

| Job        | Truss | Truss Type | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P250041-01 | J7    | Jack-Open  | 7   | 1   | Job Reference (optional) | 171039444 |

5-11-4

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

#### Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 28 08:55:53 ID:bvV1s7KZIvE5RRfAVC8REWzsQYr-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





LOAD CASE(S) Standard

-0-10-8

Scale = 1:26.7 Plate Offsets (X, Y): [2:0-1-8,0-0-3]

| 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       | 0.78 | Vert(LL) | -0.07 | 2-5   | >987   | 240 | MT20          | 244/190  |  |
| TCDL   | 10.0  | Lumber DOL      | 1.15            | BC       | 0.44 | Vert(CT) | -0.14 | 2-5   | >493   | 180 |               |          |  |
| BCLL   | 0.0   | Rep Stress Incr | YES             | WB       | 0.00 | Horz(CT) | 0.02  | 4     | n/a    | n/a |               |          |  |
| BCDL   | 10.0  | Code            | IRC2018/TPI2014 | Matrix-P |      |          |       |       |        |     | Weight: 25 lb | FT = 20% |  |
| LUMBER 6) This truss is designed in accordance with the 2018 |       |                 |                 |          |      |          |       |       |        |     |               |          |  |

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

| TOP CHORD | 2x4 SP N   | 0.2                                |
|-----------|------------|------------------------------------|
| BOT CHORD | 2x4 SP N   | 0.2                                |
| SLIDER    | Left 2x4 S | SP No.2 3-2-14                     |
| BRACING   |            |                                    |
| TOP CHORD | Structura  | wood sheathing directly applied or |
|           | 5-11-4 oc  | purlins.                           |
| BOT CHORD | Rigid ceil | ing directly applied or 10-0-0 oc  |
|           | bracing.   |                                    |
| REACTIONS | (size)     | 2=0-3-8, 4= Mechanical, 5=         |
|           |            | Mechanical                         |
|           | Max Horiz  | 2=123 (LC 12)                      |
|           | Max Uplift | 2=-52 (LC 12), 4=-121 (LC 12)      |
|           | Max Grav   | 2=330 (LC 1), 4=201 (LC 1), 5=118  |
|           |            | (LC 3)                             |
| FORCES    | (lb) - Max | imum Compression/Maximum           |
|           | Tension    | ·                                  |
| TOP CHORD | 1-2=0/0, 2 | 2-4=-115/61                        |
| BOT CHORD | 2-5=0/0    |                                    |

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 5-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: , Joint 2 SP No.2 crushing capacity of 565 psi.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 121 lb uplift at joint 4 and 52 lb uplift at joint 2.



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 | Roof - HM Lot 200        |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P250041-01 | J8    | Jack-Open  | 2   | 1   | Job Reference (optional) | 171039445 |

#### Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 28 08:55:53 ID:S1CJ3jo6u2qyIjchO6Rekyywoq8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:27.6

Plate Offsets (X, Y): [2:0-4-1,0-0-5]

| Loading<br>TCLL (roof)<br>TCDL  | (psf)<br>25.0<br>10.0  | Spacing<br>Plate Grip DOL<br>Lumber DOL   | 2-0-0<br>1.15<br>1.15  |  | CSI<br>TC<br>BC<br>WB  | 0.35<br>0.44  | DEFL<br>Vert(LL)<br>Vert(CT)   | in<br>-0.07<br>-0.14       | (loc)<br>2-6<br>2-6 | l/defl<br>>999<br>>504 | L/d<br>240<br>180 | PLATES<br>MT20  | <b>GRIP</b><br>197/144              |  |
|---|--|---|--|--|--|---|--|----------------------------|---------------------|------------------------|-------------------|---|-------------------------------------|--|
| BCDL  | 10.0   | Code  | IRC2018  | 3/TPI2014  | Matrix-P   | 0.05  | 1012(01)   | 0.00                       | 0                   | n/a                    | n/a               | Weight: 28 lb   | FT = 20%                            |  |
| LUMBER<br>FOP CHORD<br>30T CHORD<br>WEBS<br>SLIDER<br><b>3RACING</b><br>FOP CHORD<br><b>3OT CHORD</b><br><b>3OT CHORD</b><br><b>3OT</b> | 2x4 SP No.2<br>2x3 SPF No.2<br>Left 2x4 SP No.2 2<br>Structural wood shee<br>5-11-4 oc purlins, e<br>2-0-0 oc purlins; 4-5<br>Rigid ceiling directly<br>bracing.<br>(size) 2=0-3-8, 6<br>Max Horiz 2=108 (LC<br>Max Uplift 2=-65 (LC<br>Max Uplift 2=-65 (LC<br>Max Grav 2=328 (LC<br>(Ib) - Maximum Com<br>Tension<br>1-2=0/0, 2-4=-194/91<br>2-6=-149/126<br>4-6=-171/216<br>d roof live loads have<br>E 7-16; Vult=115mph<br>ph; TCDL=6.0psf; BC<br>cat. II; Exp C; Enclose<br>ne and C-C Exterior(2<br>xposed ; end vertical I<br>-C for members and fn<br>hown; Lumber DOL= <sup>-1</sup><br>equate drainage to pr<br>nas been designed for<br>oad nonconcurrent wi<br>re assumed to be: Joi<br>565 psi.<br>rder(s) for truss to tru- | 2-5-6<br>athing directly applie<br>xcept end verticals, a<br>applied or 10-0-0 oc<br>5= Mechanical<br>2 9)<br>12), 6=-53 (LC 9)<br>2 1), 6=258 (LC 1)<br>pression/Maximum<br>0, 4-5=-52/57, 5-6=-5<br>been considered for<br>(3-second gust)<br>DL=6.0psf; h=35ft;<br>d; MWFRS (envelop<br>E) zone; cantilever le<br>eft and right<br>prces & MWFRS for<br>1.60 plate grip<br>event water ponding<br>a 10.0 psf bottom<br>th any other live load<br>nt 2 SP No.2 crushin<br>ss connections. | 7)<br>8)<br>d or 9)<br>and<br>55/51<br>(55/51<br>(55/51)<br>(55/51)<br>(9)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.)<br>(55.) | Provide mecl<br>bearing plate<br>6 and 65 lb u<br>This truss is<br>International<br>R802.10.2 ar<br>Graphical pu<br>or the orienta<br>bottom chorc<br><b>PAD CASE(S)</b> | hanical connection<br>capable of withsta<br>plift at joint 2.<br>designed in accord<br>Residential Codes<br>and referenced stan-<br>rlin representation<br>ation of the purlin a<br>l.<br>Standard | (by oth<br>anding 5<br>lance wi<br>sections<br>dard AN<br>does no<br>long the | ers) of truss i<br>3 lb uplift at j<br>th the 2018<br>R502.11.1 a<br>ISI/TPI 1.<br>of depict the s<br>top and/or | to<br>joint<br>and<br>size |                     |                        |                   | STATE OF M<br>STATE OF M<br>SEVI<br>SEVI<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-20010<br>PE-2000<br>PE-20010<br>PE-20010<br>PE-20010 | MISSOLATION<br>T.M.<br>ER<br>DI8807 |  |



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 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 | Roof - HM Lot 200        |           |
|------------|-------|--------------------|-----|-----|--------------------------|-----------|
| P250041-01 | J9    | Jack-Closed Girder | 2   | 1   | Job Reference (optional) | 171039446 |

2-7-4

2-7-4

-0-10-8

0-10-8

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 28 08:55:53 ID:S1CJ3jo6u2qyljchO6Rekyywoq8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

5-11-4

3-4-0

Page: 1



NAILED

5-11-4

NAILED

| Scale = | 1:31.4 |
|---------|--------|
|---------|--------|

#### Plate Offsets (X, Y): [6:0-1-8,0-4-12]

|  |  | -  |                                      |   | _  | -   |  |                                     |                          |                               |                          |                                 |                                    |
|--|--|--|--------------------------------------|---|--|---|--|-------------------------------------|--------------------------|-------------------------------|--------------------------|---------------------------------|------------------------------------|
| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL   | (psf)<br>25.0<br>10.0<br>0.0<br>10.0   | <b>Spacing</b><br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code  | 2-0-0<br>1.15<br>1.15<br>NO<br>IRC20 | 18/TPI2014  | <b>CSI</b><br>TC<br>BC<br>WB<br>Matrix-P   | 0.33<br>0.58<br>0.08  | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)   | in<br>-0.08<br>-0.16<br>0.00        | (loc)<br>5-6<br>5-6<br>5 | l/defl<br>>884<br>>436<br>n/a | L/d<br>240<br>180<br>n/a | PLATES<br>MT20<br>Weight: 26 lb | <b>GRIP</b><br>197/144<br>FT = 20% |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>BOT CHORD  | 2x4 SP No.2<br>2x4 SP No.2<br>2x3 SPF No.2 *Exce<br>Structural wood she<br>5-11-4 oc purlins, e<br>2-0-0 oc purlins: 3-4<br>Rigid ceiling directly<br>bracing  | pt* 6-2:2x4 SP No.2<br>athing directly applie<br>xcept end verticals,<br>applied or 10-0-0 o   | 2 8<br>ed or<br>and 2<br>c 2         | <ul> <li>Provide me<br/>bearing plat</li> <li>6 and 82 lb</li> <li>This truss is<br/>Internationa<br/>R802.10.2 a</li> <li>Graphical p<br/>or the orien<br/>bottom choi</li> <li>"NAILED" ir</li> </ul> | chanical connectii<br>te capable of with:<br>uplift at joint 5.<br>designed in acco<br>al Residential Cod<br>and referenced str<br>urlin representation<br>tation of the purlin<br>rd. | on (by oth<br>standing 8<br>ordance w<br>e sections<br>andard AN<br>on does no<br>a along the<br>-10d (0.14 | ers) of truss<br>11 lb uplift at<br>15 R502.11.1 at<br>ISI/TPI 1.<br>bt depict the<br>15 top and/or<br>8" x 3") toe- | to<br>joint<br>and<br>size<br>nails |                          |                               |                          |                                 |                                    |
| REACTIONS  | (size) 5= Mecha<br>Max Horiz 6=82 (LC<br>Max Uplift 5=-82 (LC<br>Max Grav 5=298 (LC  | nical, 6=0-3-8<br>9)<br>: 9), 6=-81 (LC 12)<br>C 1), 6=382 (LC 1)  | l                                    | per NDS gu<br>1) In the LOAE<br>of the truss<br>OAD CASE(S)   | idelines.<br>D CASE(S) section<br>are noted as from<br>Standard  | n, loads a<br>t (F) or ba   | oplied to the<br>ck (B).   | face                                |                          |                               |                          |                                 |                                    |
| FORCES   | (lb) - Maximum Com<br>Tension<br>2-6=-180/208, 1-2=0<br>3-4=-34/37, 4-5=-12  | pression/Maximum<br>)/32, 2-3=-45/120,<br>9/103  |                                      | Plate Incre<br>Uniform Lo<br>Vert: 1-2<br>Concentra   | con Live (balanced<br>ease=1.15<br>bads (lb/ft)<br>2=-70, 2-3=-70, 3-<br>ted Loads (lb)  | -4=-70, 5-  | 6=-20  | 15,                                 |                          |                               |                          |                                 |                                    |
| BOT CHORD<br>WEBS  | 5-6=-214/194<br>3-6=-233/84, 3-5=-2  | 17/214   |                                      | Vert: 7=  | -31 (F), 8=-36 (F)   | , 9=-18 (F  | ), 10=-13 (F)  | )                                   |                          |                               |                          |                                 |                                    |
| NOTES<br>1) Unbalanc<br>this desig<br>2) Wind: AS<br>Vasd=91r<br>Ke=1.00;<br>exterior zr<br>and right<br>exposed;(<br>reactions<br>DOI =1 60 | ed roof live loads have<br>n.<br>CE 7-16; Vult=115mph<br>mph; TCDL=6.0psf; BC<br>Cat. II; Exp C; Enclose<br>one and C-C Exterior(2<br>exposed ; end vertical I<br>C-C for members and f<br>shown; Lumber DOL=<br>D | been considered fo<br>(3-second gust)<br>DL=6.0psf; h=35ft;<br>d; MWFRS (envelop<br>E) zone; cantilever I<br>eft and right<br>orces & MWFRS for<br>I.60 plate grip | r<br>De)<br>left                     |   |  |   |  |                                     |                          | Ç                             | *                        | STATE OF I                      | MISSOLUTIAL                        |

- Provide adequate drainage to prevent water ponding. 3)
- This truss has been designed for a 10.0 psf bottom 4)
- chord live load nonconcurrent with any other live loads. Bearings are assumed to be: Joint 6 SP No.2 crushing 5)
- capacity of 565 psi.
- 6) Refer to girder(s) for truss to truss connections.

PE-200101880  $\sim$ SSIONAL E

January 29,2025

TION IEW



| Job        | Truss | Truss Type | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P250041-01 | J10   | Jack-Open  | 2   | 1   | Job Reference (optional) | 171039447 |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 28 08:55:53 ID:hVjIO\_h5mbp5LV\_8wQImPGywoqG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





3-3-14

| Scale | - | = 1:24 | 1.4 |   |  |
|-------|---|--------|-----|---|--|
|       |   |        |     | - |  |

| Plate Offsets () | <, Y): | [2:0-1-8,0-0-3] |
|------------------|--------|-----------------|
|------------------|--------|-----------------|

| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL  |  | (psf)<br>25.0<br>10.0<br>0.0<br>10.0   | <b>Spacing</b><br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code   | 2-0-0<br>1.15<br>1.15<br>YES<br>IRC2018/TPI2014         | CSI<br>TC<br>BC<br>WB<br>Matrix-P   | 0.20<br>0.12<br>0.00                  | <b>DEFL</b><br>Vert(LL)<br>Vert(CT)<br>Horz(CT) | in<br>-0.01<br>-0.01<br>0.00 | (loc)<br>2-5<br>2-5<br>4 | l/defl<br>>999<br>>999<br>n/a | L/d<br>240<br>180<br>n/a | PLATES<br>MT20<br>Weight: 15 lb | <b>GRIP</b><br>244/190<br>FT = 20% |
|---|--|--|---|---|---|---------------------------------------|---|------------------------------|--------------------------|-------------------------------|--------------------------|---------------------------------|------------------------------------|
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>SLIDER  | 2x4 SP No<br>2x4 SP No<br>Left 2x4 S   | 0.2<br>0.2<br>3P No.2 1  | -9-14   | 6) This truss<br>Internation<br>R802.10.2<br>LOAD CASE( | is designed in acco<br>nal Residential Code<br>and referenced sta<br><b>S)</b> Standard | ordance wi<br>e sections<br>andard AN | ith the 2018<br>R502.11.1 a<br>ISI/TPI 1.       | and                          |                          |                               |                          |                                 |                                    |
| TOP CHORD   | P CHORD Structural wood sheathing directly applied or<br>3-3-14 oc purlins.<br>T CHORD Rigid ceiling directly applied or 10-0-0 oc<br>bracing.   |  |   |   |   |                                       |   |                              |                          |                               |                          |                                 |                                    |
| REACTIONS   | bracing.       2=0-5-8, 4= Mechanical, 5=         Mechanical       Mechanical         Max Horiz       2=75 (LC 12)         Max Uplifit       2=-37 (LC 12), 4=-68 (LC 12)         Max Grav       2=216 (LC 1), 4=-106 (LC 1), 5=65         (LC 3)       (LC 3) |  |   |   |   |                                       |   |                              |                          |                               |                          |                                 |                                    |
| FORCES  | (lb) - Maxi<br>Tension   | imum Com   | pression/Maximum  |   |   |                                       |   |                              |                          |                               |                          |                                 |                                    |
| TOP CHORD<br>BOT CHORD  | 1-2=0/0, 2<br>2-5=0/0  | 2-4=-72/35   |   |   |   |                                       |   |                              |                          |                               |                          |                                 |                                    |
| NOTES<br>1) Wind: AS(<br>Vasd=91n<br>Ke=1.00; '<br>exterior zc<br>and right<br>exposed;C<br>reactions<br>DOL=1.6C<br>2) This truss<br>chord live<br>3) Bearings a<br>capacity o | CE 7-16; Vul<br>nph; TCDL=<br>Cat. II; Exp (<br>one and C-C<br>exposed ; en<br>C-C for mem<br>shown; Lum<br>)<br>has been de<br>load noncor<br>are assumed<br>f 565 psi.   | It=115mph<br>6.0psf; BC<br>C; Enclose<br>Exterior(2<br>Id vertical I<br>bers and for<br>ber DOL=1<br>esigned for<br>neurrent wi<br>d to be: , Jo | (3-second gust)<br>DL=6.0psf; h=35ft;<br>d; MWFRS (envelop<br>E) zone; cantilever I<br>eft and right<br>prces & MWFRS for<br>I.60 plate grip<br>r a 10.0 psf bottom<br>th any other live load<br>pint 2 SP No.2 crush | ee)<br>eft<br>ds.<br>ing                                |   |                                       |   |                              |                          |                               |                          | STATE OF M<br>SCOTT<br>SEVI     | MISSOLIA<br>I M.<br>ER<br>Server   |
| <ol> <li>A) Refer to a</li> </ol>   | irder(s) for t   | ruce to true   | es connections  |   |   |                                       |   |                              |                          | _                             | N                        |                                 | Jun In                             |

Refer to girder(s) for truss to truss connections. 4) 5)

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 68 lb uplift at joint 4 and 37 lb uplift at joint 2.

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January 29,2025

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| Job        | Truss | Truss Type | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P250041-01 | J11   | Jack-Open  | 2   | 1   | Job Reference (optional) | 171039448 |

2-6-5

3-3-14

-0-10-8

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 28 08:55:53 ID:hVjIO\_h5mbp5LV\_8wQImPGywoqG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

3-3-14

Page: 1

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| Scale = 1:23.8       |                 |            |
|----------------------|-----------------|------------|
| Dioto Offecto (V. V) | 10.0 2 2 0 0 21 | 14.0 2 2 5 |

| iate Unsets (X, Y): [2:0-2-3,0-0-3], [4:0-2-2,Edge]   |   |                                      |  |   |           |                                   |                      |  |                             |                          |                               |                          |                                 |                                    |  |
|---|---|--------------------------------------|--|---|-----------|-----------------------------------|----------------------|--|-----------------------------|--------------------------|-------------------------------|--------------------------|---------------------------------|------------------------------------|--|
| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL  |   | (psf)<br>25.0<br>10.0<br>0.0<br>10.0 | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code | 2-0-0<br>1.15<br>1.15<br>YES<br>IRC2018 | 3/TPI2014 | CSI<br>TC<br>BC<br>WB<br>Matrix-P | 0.17<br>0.09<br>0.00 | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT) | in<br>0.01<br>-0.01<br>0.01 | (loc)<br>2-6<br>2-6<br>5 | l/defl<br>>999<br>>999<br>n/a | L/d<br>240<br>180<br>n/a | PLATES<br>MT20<br>Weight: 14 lb | <b>GRIP</b><br>244/190<br>FT = 20% |  |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>SLIDER<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS  | IMBER       7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 5 and 42 lb uplift at joint 2.         IDER       Left 2x4 SP No.2       8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANS/TP1 1.         YP CHORD       Structural wood sheathing directly applied or 3-3-14 oc purlins; except 2-0-0 oc purlins; except 2-0-0 oc purlins; except araing.       8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANS/TP1 1.         YT CHORD       Rigid ceiling directly applied or 10-0-0 oc bracing.       9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.         LOAD CASE(S)       Standard         VEX.CIS       (size)       2=0-3-8, 5= Mechanical, 6= Mechanical         Max Horiz       2=62 (LC 12) Max Grav       2=-62 (LC 12) Fa=-39 (LC 12) Max Grav         Max Grav       2=-216 (LC 1), 5=-101 (LC 1), 6=57 (LC 3)         VEX.CES       (lb) - Maximum Compression/Maximum Tension         Tension       12=-00, 2-4=-73/17, 4-5=0/0         VP CHORD       2-6=-0/0 |                                      |  |   |           |                                   |                      |  |                             |                          |                               |                          |                                 |                                    |  |
| FORCES       (lb) - Maximum Compression/Maximum<br>Tension         TOP CHORD       1-2=0/0, 2-4=-73/17, 4-5=0/0         BOT CHORD       2-6=0/0         NOTES       1)         1)       Unbalanced roof live loads have been considered for<br>this design.         2)       Wind: ASCE 7-16; Vult=115mph (3-second gust)         Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; B-35ft;<br>Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope)         exterior zone and C-C Exterior(2E) zone; cantilever left<br>and right exposed; end vertical left and right<br>exposed; C-C for members and forces & MWFRS for<br>reactions shown; Lumber DOL=1.60         3)       Provide adequate drainage to prevent water ponding.         4)       This truss has been designed for a 10.0 psf bottom<br>chord live load nonconcurrent with any other live loads.         5)       Bearings are assumed to be: , Joint 2 SP No.2 crushing<br>capacity of 565 psi.         6)       Refer to girder(s) for truss to truss connections. |   |                                      |  |   |           |                                   |                      |  |                             |                          |                               |                          |                                 |                                    |  |

January 29,2025



RELEASE FOR DEVELOR METRUCTION AS NOTED ON PLANS REVIEW DEVELOR MENTS SERVICES LEE'S'SUMMIT'S MISSOURI 02/04/2025 11:09:49

| Job        | Truss | Truss Type | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P250041-01 | J12   | Jack-Open  | 6   | 1   | Job Reference (optional) | 171039449 |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 28 08:55:53 ID:MS\_2YsQaPMEyOgGjzuHJYBzsQYj-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







| Scale = 1:24.8      | -               |
|---------------------|-----------------|
| Plate Offsets (X Y) | [2.0-1-8 0-0-3] |

. . . .

| 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       | 0.30 | Vert(LL) | -0.01 | 2-5   | >999   | 240 | MT20          | 244/190  |  |
| TCDL   | 10.0  | Lumber DOL      | 1.15            | BC       | 0.18 | Vert(CT) | -0.03 | 2-5   | >999   | 180 |               |          |  |
| BCLL   | 0.0   | Rep Stress Incr | YES             | WB       | 0.00 | Horz(CT) | -0.01 | 4     | n/a    | n/a |               |          |  |
| BCDL   | 10.0  | Code            | IRC2018/TPI2014 | Matrix-P |      |          |       |       |        |     | Weight: 17 lb | FT = 20% |  |
| LUMBER 6) This truss is designed in accordance with the 2018 |       |                 |                 |          |      |          |       |       |        |     |               |          |  |

3-11-4

| TOP CHORD | 2x4 SP N   | 0.2                                |
|-----------|------------|------------------------------------|
| BOT CHORD | 2x4 SP N   | 0.2                                |
| SLIDER    | Left 2x4 S | SP No.2 2-1-14                     |
| BRACING   |            |                                    |
| TOP CHORD | Structura  | wood sheathing directly applied or |
|           | 3-11-4 oc  | purlins.                           |
| BOT CHORD | Rigid ceil | ing directly applied or 10-0-0 oc  |
|           | bracing.   |                                    |
| REACTIONS | (size)     | 2=0-5-8, 4= Mechanical, 5=         |
|           |            | Mechanical                         |
|           | Max Horiz  | 2=86 (LC 12)                       |
|           | Max Uplift | 2=-41 (LC 12), 4=-81 (LC 12)       |
|           | Max Grav   | 2=243 (LC 1), 4=129 (LC 1), 5=78   |
|           |            | (LC 3)                             |
| FORCES    | (lb) - Max | imum Compression/Maximum           |
|           | Tension    |                                    |
| TOP CHORD | 1-2=0/0, 2 | 2-4=-81/41                         |
| BOT CHORD | 2-5=0/0    |                                    |

#### NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: , Joint 2 SP No.2 crushing capacity of 565 psi.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 81 lb uplift at joint 4 and 41 lb uplift at joint 2.

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

LOAD CASE(S) Standard



January 29,2025

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| Job        | Truss | Truss Type         | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|--------------------|-----|-----|--------------------------|-----------|
| P250041-01 | J13   | Jack-Closed Girder | 2   | 1   | Job Reference (optional) | 171039450 |

3-6-7

3-6-7

-0-10-8

0-10-8

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

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5-11-4

2-4-13

Page: 1





Scale = 1:33.8

Plate Offsets (X, Y): [2:0-2-3,0-0-3]

| Loading<br>FCLL (roof)<br>FCDL<br>SCLL<br>SCDL   | (psf)<br>25.0<br>10.0<br>0.0<br>10.0  | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code   | 2-0-0<br>1.15<br>1.15<br>NO<br>IRC2018 | /TPI2014  | CSI<br>TC<br>BC<br>WB<br>Matrix-P   | 0.23<br>0.15<br>0.07   | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)   | in<br>-0.01<br>-0.01<br>0.00        | (loc)<br>2-7<br>2-7<br>6 | l/defl<br>>999<br>>999<br>n/a | L/d<br>240<br>180<br>n/a | PLATES<br>MT20<br>Weight: 27 lb | <b>GRIP</b><br>197/144<br>FT = 20% |
|--|---|--|--|---|---|--|--|-------------------------------------|--------------------------|-------------------------------|--------------------------|---------------------------------|------------------------------------|
| LUMBER<br>FOP CHORD<br>3OT CHORD<br>WEBS<br>SLIDER<br>BRACING<br>FOP CHORD<br>3OT CHORD                      | 2x4 SP No.2<br>2x4 SP No.2<br>2x3 SPF No.2<br>Left 2x4 SP No.2<br>Structural wood she<br>5-11-4 oc purlins, e-5<br>Rigid ceiling directly   | 1-9-15<br>athing directly applie<br>xcept end verticals,<br>applied or 10-0-0 or   | 6)<br>7)<br>ed or 8)<br>and 9)         | Provide med<br>bearing plate<br>6 and 76 lb<br>This truss is<br>International<br>R802.10.2 a<br>Graphical pu<br>or the orient<br>bottom chor<br>"NAILED" in | chanical connection<br>e capable of withst<br>uplift at joint 2.<br>designed in accor<br>Residential Code<br>nd referenced star<br>urlin representatior<br>ation of the purlin a<br>d.<br>dicates Girder: 3-1 | n (by oth<br>anding 7<br>dance w<br>sections<br>ndard AN<br>n does no<br>along the<br>0d (0.14 | ers) of truss i<br>2 lb uplift at j<br>ith the 2018<br>R502.11.1 a<br>ISI/TPI 1.<br>ot depict the s<br>top and/or<br>8" x 3") toe- | to<br>joint<br>and<br>size<br>nails |                          |                               |                          |                                 |                                    |
| REACTIONS  | (size) 2=0-3-8, 6<br>Max Horiz 2=87 (LC<br>Max Uplift 2=-76 (LC<br>Max Grav 2=348 (LC   | 6= Mechanical<br>9)<br>2 12), 6=-72 (LC 9)<br>C 1), 6=270 (LC 1)   | 10)<br><b>LO</b><br>1)                 | per NDS gui<br>In the LOAD<br>of the truss a<br>AD CASE(S)<br>Dead + Ro   | delines.<br>CASE(S) section,<br>are noted as front<br>Standard<br>of Live (balanced):   | loads a<br>(F) or ba<br>Lumber   | oplied to the<br>ck (B).<br>Increase=1.  | face<br>15,                         |                          |                               |                          |                                 |                                    |
|  | (lb) - Maximum Com<br>Tension   | pression/Maximum   |  | Uniform Lo<br>Vert: 1-4   | ads (lb/ft)<br>=-70, 4-5=-70, 2-6   | i=-20  |  |                                     |                          |                               |                          |                                 |                                    |
| BOT CHORD  | 5-6=-81/72<br>2-7=-160/223, 6-7=-<br>4-7=0/157, 4-6=-280  | 162/218<br>)/174   |  | Concentrat<br>Vert: 8=-   | ed Loads (lb)<br>17 (F), 9=-5 (F), 1  | 0=-11 (F   | ), 11=1 (F)  |                                     |                          |                               |                          |                                 |                                    |
| VOTES<br>Vasd=911<br>Ke=1.00;<br>exterior z<br>and right<br>exposed;<br>reactions<br>DOL=1.6<br>2) Provide a | CE 7-16; Vult=115mph<br>mph; TCDL=6.0psf; BC<br>Cat. II; Exp C; Enclose<br>one and C-C Exterior(2<br>exposed ; end vertical I<br>C-C for members and f<br>shown; Lumber DOL=<br>0<br>dequate drainage to pr | (3-second gust)<br>DL=6.0psf; h=35ft;<br>d; MWFRS (envelop<br>E) zone; cantilever I<br>left and right<br>orces & MWFRS for<br>1.60 plate grip<br>event water pondinc | eft                                    |   |   |  |  |                                     |                          |                               |                          | STATE OF M                      | AISSOLD<br>MISSOLD<br>MER          |

- This truss has been designed for a 10.0 psf bottom 3) chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: Joint 2 SP No.2 crushing 4) capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.





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January 29,2025

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| Job        | Truss | Truss Type | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P250041-01 | J14   | Jack-Open  | 1   | 1   | Job Reference (optional) | 171039451 |

2-9-6

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3x6 II

| 2-9-6 |
|-------|
|       |

| _oading     | (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       | 0.16 | Vert(LL) | 0.00 | 3-4   | >999   | 240 | MT20         | 197/144  |  |
| TCDL        | 10.0  | Lumber DOL      | 1.15            | BC       | 0.05 | Vert(CT) | 0.00 | 3-4   | >999   | 180 |              |          |  |
| BCLL        | 0.0   | Rep Stress Incr | YES             | WB       | 0.00 | Horz(CT) | 0.00 | 2     | n/a    | n/a |              |          |  |
| BCDL        | 10.0  | Code            | IRC2018/TPI2014 | Matrix-R |      |          |      |       |        |     | Weight: 9 lb | FT = 20% |  |
|             |       |                 |                 |          |      |          |      |       |        |     |              |          |  |

Gap between inside of top chord bearing and first

diagonal or vertical web shall not exceed 0.500in.

8)

LOAD CASE(S) Standard

LUMBER

Scale = 1:21.3

TOP CHORD 2x4 SP No.2 2x4 SP No.2 BOT CHORD WEBS 2x3 SPE No 2

| WLD5      | 270 011 1                | NU.2   |
|-----------|--------------------------|--|
| BRACING   |                          |  |
| TOP CHORD | Structural<br>2-9-6 oc p | wood sheathing directly applied or<br>ourlins, except end verticals. |
| BOT CHORD | Rigid ceili<br>bracing.  | ng directly applied or 10-0-0 oc                                     |
| REACTIONS | (size)                   | 1= Mechanical, 2= Mechanical, 3=<br>Mechanical, 4= Mechanical        |
|           | Max Horiz                | 1=-127 (LC 1), 4=127 (LC 1)  |

#### Max Uplift 1=-36 (LC 12), 2=-46 (LC 12) Max Grav 1=108 (LC 1), 2=75 (LC 1), 3=43 (LC 3), 4=62 (LC 3) FORCES (lb) - Maximum Compression/Maximum Tension

#### TOP CHORD

1-4=0/0, 1-2=-54/26 BOT CHORD 3-4=0/0

#### NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- Refer to girder(s) for truss to truss connections. 4)
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 1 and 46 lb uplift at joint 2.
- N/A 6)
- 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 | Roof - HM Lot 200        |           |  |  |  |
|------------|-------|------------|-----|-----|--------------------------|-----------|--|--|--|
| P250041-01 | J15   | Jack-Open  | 4   | 1   | Job Reference (optional) | 171039452 |  |  |  |

Scale = 1:28

Loading

TCDL

BCLL

BCDL

LUMBER

SLIDER

BRACING

TOP CHORD

BOT CHORD

TOP CHORD

BOT CHORD

REACTIONS

FORCES

NOTES 1)

2)

3)

4)

5)

capacity of 565 psi.

TOP CHORD

BOT CHORD

bracing.

Max Grav

Tension

2-5=0/0

(size)

TCLL (roof)

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6) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 4, 2, 5.

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January 29,2025

| Job        | Truss | Truss Type | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P250041-01 | J16   | Jack-Open  | 1   | 1   | Job Reference (optional) | 171039453 |

1-5-11

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 28 08:55:54 ID:hVjIO\_h5mbp5LV\_8wQImPGywoqG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1









Scale = 1:23.3

Plate Offsets (X, Y): [2:0-2-0,0-2-8]

| 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                         | TC                     | 0.12     | Vert(LL)       | 0.00  | 4-5   | >999   | 240 | MT20         | 244/190  |
| TCDL  | 10.0  | Lumber DOL                               | 1.15                         | BC                     | 0.07     | Vert(CT)       | -0.01 | 4-5   | >999   | 180 |              |  |
| 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               |          |                |       |       |        |     | Weight: 9 lb | FT = 20%   |
| -   |   |  |                              |                        |          |                |       |       |        |     |              |  |
| LUMBER  |   |  | <ol><li>Provide me</li></ol> | chanical connection    | (by oth  | ers) of truss  | to    |       |        |     |              |  |
| TOP CHORD   | 2x4 SP No.2   |  | bearing pla                  | e capable of withsta   | inding 1 | 1 Ib uplift at | joint |       |        |     |              |  |
| BOT CHORD   | 2x4 SP No.2   |  | 5 and 36 lb                  | uplift at joint 3.     |          | :+h +h = 2010  |       |       |        |     |              |  |
| WEBS     2x3 SPF No.2     8)     This truss is designed in accordance with the 2018       Interactional Designed in accordance with the 2018     100 million accordance with the 2018 |   |  |                              |                        |          |                |       |       |        |     |              |  |
| BRACING   | RACING International Residential Code sections R502.11.1 and<br>R02102 and referenced charderd ANSULTE1 |  |                              |                        |          |                |       |       |        |     |              |  |
| TOP CHORD   | OP CHORD Structural wood sheathing directly applied or 0.002/10.2 and referenced standard ANS//TP11.    |  |                              |                        |          |                |       |       |        |     |              |  |
|   | 2-9-6 oc purlins, exc   | cept end verticals, ar                   | nd 9) Graphicarp             | tation of the nurlin a | long the | top and/or     | size  |       |        |     |              |  |
| 2-0-0 oc purlins: 2-3. Or the orientation of the purlin along the top and/or  |   |  |                              |                        |          |                |       |       |        |     |              |  |
| 3OT CHORD Rigid ceiling directly applied or 10-0-0 oc bottom chord.<br>bracing. LOAD CASE(S) Standard   |   |  |                              |                        |          |                |       |       |        |     |              |  |
| REACTIONS   | (size) 3= Mecha<br>5=0-3-8  | nical, 4= Mechanical                     | l,                           |                        |          |                |       |       |        |     |              |  |
|   | Max Horiz 5=30 (I C   | 9)                                       |                              |                        |          |                |       |       |        |     |              |  |
|   | Max Uplift 3=-36 (LC  | 9), 5=-11 (LC 12)                        |                              |                        |          |                |       |       |        |     |              |  |
|   | Max Grav 3=87 (LC   | 1), 4=51 (LC 3), 5=1                     | 18                           |                        |          |                |       |       |        |     |              |  |
|   | (LC 1)  | // - ( // -                              |                              |                        |          |                |       |       |        |     |              |  |
| FORCES  | (lb) - Maximum Com  | pression/Maximum                         |                              |                        |          |                |       |       |        |     |              |  |
|   | Tension   |  |                              |                        |          |                |       |       |        |     |              |  |
| TOP CHORD   | 1-5=-96/81, 1-2=-44/  | /5, 2-3=0/0                              |                              |                        |          |                |       |       |        |     |              |  |
| BOT CHORD   | 4-5=0/0   |  |                              |                        |          |                |       |       |        |     |              |  |
| NOTES   |   |  |                              |                        |          |                |       |       |        |     |              |  |
| 1) Unbalance  | ed roof live loads have   | been considered for                      |                              |                        |          |                |       |       |        |     |              |  |
| this desigr   | n.  |  |                              |                        |          |                |       |       |        |     |              | 110  |
| 2) Wind: ASC  | CE 7-16; Vult=115mph  | (3-second gust)                          |                              |                        |          |                |       |       |        |     | OF I         | ALL  |
| Vasd=91n  | nph; TCDL=6.0psf; BC  | DL=6.0psf; h=35ft;                       |                              |                        |          |                |       |       |        |     | ALE OF I     | 115S   |
| Ke=1.00; 0  | Cat. II; Exp C; Enclose   | d; MWFRS (envelope                       | e)                           |                        |          |                |       |       |        | 4   | N            | N.S.   |
| exterior zo   | one and C-C Exterior(2  | <ul><li>E) zone; cantilever le</li></ul> | eft                          |                        |          |                |       |       |        | A   | SCOT         | TM. PY   |
| and right e   | exposed ; end vertical l  | eft and right                            |                              |                        |          |                |       |       |        | H   | SEV          | IFR V V  |
| exposed;C   | C-C for members and for   | orces & MWFRS for                        |                              |                        |          |                |       |       |        | 8   |              |  |
| reactions   | snown; Lumber DOL=1   | 1.60 plate grip                          |                              |                        |          |                |       |       |        | 0   |              | 12.1   |
| DUL=1.60  | )<br>desuiste dreine de na  |  |                              |                        |          |                |       |       |        |     | h ser        | Sec. 1   |
| <ol> <li>A) This trues</li> </ol>   | bac been designed for   | eveni water ponding.                     |                              |                        |          |                |       |       |        | J.S | CONNIM       | and the second s |
| chord live  | load nonconcurrent wit  | th any other live load                   | le                           |                        |          |                |       |       |        | N   | PE-2001      | 018807   |
| 5) Bearings a   | are assumed to be   | bint 5 SP No 2 crushi                    | ina                          |                        |          |                |       |       |        | N   | mg l         | 18A  |
| capacity o  | of 565 psi.   |  |                              |                        |          |                |       |       |        | X   | 6.50         | NO'A   |
| 6) Refer to a   | irder(s) for truss to trus  | ss connections.                          |                              |                        |          |                |       |       |        |     | ONA          | LEFA   |
| , <del>.</del> .  |   |  |                              |                        |          |                |       |       |        |     |              |  |

January 29,2025

RUCTION **VIEW** 



| Job        | Truss | Truss Type | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P250041-01 | J17   | Jack-Open  | 1   | 1   | Job Reference (optional) | 171039454 |

2-9-6

2-9-6

12 6 Г

3x4 🍃 3

For

2-9-6

-0-10-8

0-10-8

2

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

2-1-14

0-6-0

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 28 08:55:54 ID:hVjIO\_h5mbp5LV\_8wQImPGywoqG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

5

2-1-11



CASE(S) Structural wood sheathing directly applied or 2-9-6 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS (size) 2=0-3-8, 4= Mechanical, 5= Mechanical Max Horiz 2=78 (LC 12) Max Uplift 2=-26 (LC 12), 4=-65 (LC 12) Max Grav 2=193 (LC 1), 4=85 (LC 1), 5=54 (LC 3) (lb) - Maximum Compression/Maximum Tension 1-2=0/0, 2-4=-74/37 2-5=0/0Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. Bearings are assumed to be: , Joint 2 SP No.2 crushing capacity of 565 psi. Refer to girder(s) for truss to truss connections. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 65 lb uplift at joint 4 and 26 lb uplift at joint 2.

## OF MISS E SCOTT M. SEVIER J PE-200101880 SIONAL E January 29,2025

DEVELORMENT SERVICES LEE'S'SUMMIT'SMISSOURI 02/04/2025 11:09:50

TION

 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.sbcscomponents.com)

#### Scale = 1:24.7 F

BRACING TOP CHORD

BOT CHORD

FORCES

NOTES

1)

2)

3)

4)

5)

TOP CHORD

BOT CHORD

DOL=1.60

| Plate Offsets (2                 | X, Y): [2:0-2-8,0-0-5]                           |   |  |   |      |          |       |       |        |     |               |          |  |
|----------------------------------|--|---|--|---|------|----------|-------|-------|--------|-----|---------------|----------|--|
| oading                           | (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  | 0.16 | Vert(LL) | 0.00  | 2-5   | >999   | 240 | MT20          | 244/190  |  |
| FCDL                             | 10.0   | Lumber DOL  | 1.15                                       | BC  | 0.08 | Vert(CT) | -0.01 | 2-5   | >999   | 180 |               |          |  |
| BCLL                             | 0.0  | Rep Stress Incr   | YES  | WB  | 0.00 | Horz(CT) | 0.00  | 4     | n/a    | n/a |               |          |  |
| BCDL                             | 10.0   | Code  | IRC2018/TPI2014                            | Matrix-P                                  |      |          |       |       |        |     | Weight: 13 lb | FT = 20% |  |
| LUMBER<br>FOP CHORD<br>BOT CHORD | 2x4 SP No.2<br>2x4 SP No.2<br>Left 2x4 SP No.2 1 | s designed in ac<br>al Residential Co<br>and referenced | ccordance w<br>ode sections<br>standard AN | ith the 2018<br>R502.11.1 a<br>ISI/TPI 1. | and  |          |       |       |        |     |               |          |  |

3x6 II

| Job        | Truss | Truss Type         | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|--------------------|-----|-----|--------------------------|-----------|
| P250041-01 | J18   | Jack-Closed Girder | 4   | 1   | Job Reference (optional) | 171039455 |

1-6-7

1-6-7

12 5 Г

-0-10-8 0-10-8

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

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1-3-11

3-11-4

2-4-13

Page: 1

## $4x8 \neq 1.5x4 \parallel$ $1.5x4 \parallel$ $1.5x4 \parallel$ $1.5x4 \parallel$ $3x4 \parallel 1.5x4 \parallel$ 3x4 =

NAILED



Scale = 1:29.9

Plate Offsets (X, Y): [2:0-1-8,0-0-3], [3:0-2-15,Edge]

1-3-14

0-8-0

| -late Offsets (  | ∧, т). [∠.0-1-8,0-0-3],  | , [3.0-2-15,Edge]  |  |          |  |                      |  |                            |                          |                               |                          |  |  |  |
|--|--|--|--|----------|--|----------------------|--|----------------------------|--------------------------|-------------------------------|--------------------------|--|--|--|
| Loading<br>FCLL (roof)<br>FCDL<br>BCLL<br>BCDL   | (psf)<br>25.0<br>10.0<br>0.0<br>10.0   | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code   | 2-0-0<br>1.15<br>1.15<br>NO<br>IRC2018 | /TPI2014 | <b>CSI</b><br>TC<br>BC<br>WB<br>Matrix-P | 0.12<br>0.07<br>0.03 | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT) | in<br>0.00<br>0.00<br>0.00 | (loc)<br>5-6<br>5-6<br>5 | l/defl<br>>999<br>>999<br>n/a | L/d<br>240<br>180<br>n/a | PLATES<br>MT20<br>Weight: 19 lb  | <b>GRIP</b><br>197/144<br>FT = 20%                 |  |
| CDL     10.0     Code     IRC2018/TPI2014     Matrix-P     Weight: 19 lb     FT = 20%       LUMBER<br>TOP CHORD     2x4 SP No.2     This true is designed in accordance with the 2018     This true is designed in accordance with the 2018     This true is designed in accordance with the 2018     This true is designed in accordance with the 2018       SLIDER     Left 2x4 SP No.2 1-5-9     This true is designed in accordance with the 2018     This true is designed in accordance with the 2018       SRACING     Structural wood sheathing directly applied or 3-11-4 oc purlins; except end verticals, and 2-0-0 oc purlins; except end verticals, and 2-0-0 oc purlins; 2-447 (LC 39)     Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or botom chord.       30T CHORD     (size)     2=0-5-8, 5= Mechanical Max Horiz     10) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.       11)     In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).     10) "NAILED" indicates (Dift) vert: 1-3=-70, 2-55-20       CORCES     (b) - Maximum Compression/Maximum Tension     Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15       FOP CHORD     1-2e/0, 2-3=-194/58, 3-4=-21/23, 4-5=-79/63     Uniform Loads (b)/ Vert: 7=21 (B)       30T CHORD     2-6=-90/146, 5-6=-90/146     Vert: 7=21 (B) |  |  |  |          |  |                      |  |                            |                          |                               |                          |  |  |  |
| <ol> <li>Unbalance<br/>this design<br/>this design<br/>(and construction)</li> <li>Wind: ASC<br/>Vasd=91n<br/>Ke=1.00;<br/>exterior z c<br/>and right é<br/>exposed;<br/>reactions :<br/>DOL=1.60</li> <li>Provide ac<br/>DOL=1.60</li> <li>Provide ac<br/>Provide ac<br/>chord live<br/>Bearings a<br/>capacity o</li> <li>Refer to g</li> </ol>  | ed roof live loads have<br>n.<br>CE 7-16; Vult=115mph<br>nph; TCDL=6.0psf; BC<br>Cat. II; Exp C; Enclose<br>one and C-C Exterior(2<br>exposed; end vertical<br>>-C for members and f<br>shown; Lumber DOL=<br>)<br>dequate drainage to pr<br>has been designed fo<br>load nonconcurrent wi<br>are assumed to be: Joi<br>of 565 psi.<br>irder(s) for truss to tru | been considered for<br>a (3-second gust)<br>EDL=6.0psf; h=35ft;<br>ad; MWFRS (envelop<br>E) zone; cantilever le<br>left and right<br>forces & MWFRS for<br>1.60 plate grip<br>revent water ponding,<br>r a 10.0 psf bottom<br>ith any other live load<br>int 2 SP No.2 crushin<br>ass connections. | e)<br>ht<br>is.<br>g                   |          |  |                      |  |                            |                          |                               | * Pixes                  | STATE OF M<br>SCOTT<br>SEVI<br>PE-20010<br>PE-20010<br>PE-20010<br>January | 11550<br>M.<br>ER<br>D18807<br>L ENGINE<br>29,2025 |  |

#### 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 | Roof - HM Lot 200        |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P250041-01 | J20   | Jack-Open  | 1   | 1   | Job Reference (optional) | 171039456 |

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1/J4zJC?f





```
3x4 =
```



| I | 2-9-6 |  |
|---|-------|--|
| Γ |       |  |

Scale = 1:26.8 Plate Offsets (X, Y): [2:0-4-1.0-0-5]. [4:0-2-0.0-2-8]

|   | (X, 1): [2:0 + 1,0 0 0];   | [4.0 2 0,0 2 0]  |   |  |  |  |  |                            |                          |                               |                          |                                 |                                    |
|---|--|--|---|--|--|--|--|----------------------------|--------------------------|-------------------------------|--------------------------|---------------------------------|------------------------------------|
| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL  | (psf)<br>25.0<br>10.0<br>0.0<br>10.0   | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code   | 2-0-0<br>1.15<br>1.15<br>YES<br>IRC2018/T       | PI2014   | <b>CSI</b><br>TC<br>BC<br>WB<br>Matrix-P   | 0.11<br>0.06<br>0.00   | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)   | in<br>0.00<br>0.00<br>0.01 | (loc)<br>2-6<br>2-6<br>5 | l/defl<br>>999<br>>999<br>n/a | L/d<br>240<br>180<br>n/a | PLATES<br>MT20<br>Weight: 12 lb | <b>GRIP</b><br>244/190<br>FT = 20% |
|   | 1010   | 0000   |   |  |  |  |  |                            |                          |                               |                          | 110.9.1.12.10                   |                                    |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>SLIDER<br>BRACING<br>TOP CHORD  | <ul> <li>2x4 SP No.2</li> <li>2x4 SP No.2</li> <li>Left 2x4 SP No.2 1</li> <li>Structural wood sheat</li> <li>2-9-6 oc purlins, exc</li> <li>2-0-0 oc purlins: 4-5</li> </ul>  | 1-5-11<br>athing directly applic<br>æpt  | 7) P<br>b<br>5<br>8) T<br>Ir<br>ed or R<br>9) G | Provide mech<br>earing plate<br>and 36 lb u<br>This truss is o<br>nternational<br>8802.10.2 ar<br>Braphical put<br>r the orienta | nanical connection<br>capable of withst<br>plift at joint 2.<br>designed in accor<br>Residential Code<br>nd referenced star<br>rlin representation<br>tion of the purlin a | n (by oth<br>anding 3<br>dance w<br>sections<br>ndard AN<br>n does no<br>along the | ers) of truss to<br>5 lb uplift at jo<br>ith the 2018<br>R502.11.1 at<br>ISI/TPI 1.<br>ot depict the s<br>top and/or | o<br>oint<br>nd<br>iize    |                          |                               |                          |                                 |                                    |
| BOT CHORD   | <ul> <li>Rigid ceiling directly<br/>bracing.</li> </ul>  | applied or 10-0-0 or   |   | ottom chord<br>D CASE(S)   | Standard   |  |  |                            |                          |                               |                          |                                 |                                    |
| REACTIONS   | (size) 2=0-3-8, 5<br>Mechanic<br>Max Horiz 2=51 (LC<br>Max Uplift 2=-36 (LC<br>Max Grav 2=193 (LC<br>(LC 3)  | 5= Mechanical, 6=<br>al<br>12)<br>5 12), 5=-35 (LC 9)<br>5 1), 5=83 (LC 1), 6=   | -47   |  |  |  |  |                            |                          |                               |                          |                                 |                                    |
| FORCES  | (Ib) - Maximum Com   | pression/Maximum   |   |  |  |  |  |                            |                          |                               |                          |                                 |                                    |
| TOP CHORD   | Tension<br>0 1-2=0/0, 2-4=-70/6, 4   | 4-5=0/0  |   |  |  |  |  |                            |                          |                               |                          |                                 |                                    |
| NOTES   | 2-0=0/0  |  |   |  |  |  |  |                            |                          |                               |                          |                                 |                                    |
| <ol> <li>Unbalance<br/>this desig</li> <li>Wind: AS<br/>Vasd=91</li> <li>Ke=1.00;<br/>exterior z<br/>and right<br/>exposed;<br/>reactions<br/>DOL=1.6</li> <li>Provide a</li> <li>This trust</li> </ol> | ced roof live loads have<br>gn.<br>SCE 7-16; Vult=115mph<br>mph; TCDL=6.0psf; BC<br>; Cat. II; Exp C; Enclose<br>cone and C-C Exterior(2<br>exposed ; end vertical I<br>C-C for members and for<br>a shown; Lumber DOL=1<br>0<br>adequate drainage to pro<br>s has been designed for | been considered for<br>(3-second gust)<br>DL=6.0psf; h=35ft;<br>d; MWFRS (envelop<br>E) zone; cantilever I<br>left and right<br>orces & MWFRS for<br>1.60 plate grip<br>event water ponding<br>r a 10.0 psf bottom | r<br>eft  |  |  |  |  |                            |                          |                               |                          | STATE OF M<br>SCOT<br>SEVI      | MISSOLA<br>I M.<br>LER<br>STULAT   |
| <ul><li>chord live</li><li>5) Bearings capacity</li></ul>   | e load nonconcurrent wi<br>are assumed to be: , Jo<br>of 565 psi.  | ith any other live load<br>oint 2 SP No.2 crush  | ds.<br>ing                                      |  |  |  |  |                            |                          |                               | Ø                        | FE-2001                         | ENGLE                              |
| 6) Refer to   | airder(s) for truss to trus  | ss connections.  |   |  |  |  |  |                            |                          |                               |                          | W UNA                           | LPY                                |

January 29,2025



RELEASE ICROMETRUCTION AS NOTED ON LANS REVIEW DEVELOBINATION SERVICES LEETS SUMMITY MISSOURI 02/04/2025 11:09:50

| Job        | Truss | Truss Type | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P250041-01 | J21   | Jack-Open  | 3   | 1   | Job Reference (optional) | 171039457 |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 28 08:55:54 ID:hVjIO\_h5mbp5LV\_8wQImPGywoqG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

OR CONSTRUCTION ON PLANS REVIEW

DEVERSION SERVICES LEE'S'SUMMIT'S MISSOURI 02/04/2025 11:09:50

RELEASE AS NOTED 1 46



3x4 =

1-1-6 0-11-7 0-11-7 0-1-15

Scale = 1:31.1

| Plate Offsets (X, Y): | [4:Edge,0-1-8], [5:0-3-0,0-1-12] |
|-----------------------|----------------------------------|
|-----------------------|----------------------------------|

| <b>Loading</b><br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL  | (psf)<br>25.0<br>10.0<br>0.0<br>10.0  | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code  | 2-0-0<br>1.15<br>1.15<br>YES<br>IRC2018/TPI2014   | <b>CSI</b><br>TC<br>BC<br>WB<br>Matrix-P                                    | 0.08<br>0.01<br>0.02          | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT) | in<br>0.00<br>0.00<br>0.00 | (loc)<br>5<br>4-5<br>3 | l/defl<br>>999<br>>999<br>n/a | L/d<br>240<br>180<br>n/a | PLATES<br>MT20<br>Weight: 6 lb                                    | <b>GRIP</b><br>197/144<br>FT = 20%              |
|--|---|---|---|---|-------------------------------|--|----------------------------|------------------------|-------------------------------|--------------------------|---|---|
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>BOT CHORD<br>BOT CHORD<br>BOT CHORD<br>BOT CHORD<br>BOT CHORD<br>REACTIONS<br>FORCES<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>NOTES<br>1) Wind: ASC<br>Vasd=91m<br>Ke=1.00; C<br>exterior zo<br>and right e<br>exposed;C<br>reactions s<br>DOL=1.60<br>2) This truss<br>chord live<br>3) Bearings a<br>capacity of<br>4) Refer to gi<br>5) Provide m<br>bearing pla<br>5, 12 lb up | 2x4 SP No.2<br>2x4 SP No.2<br>2x4 SP No.2<br>2x4 SP No.2 *Excep<br>Structural wood sheat<br>1-1-6 oc purlins, exx<br>Rigid ceiling directly<br>bracing.<br>(size) 3= Mecha<br>5=0-5-8<br>Max Horiz 5=33 (LC<br>Max Uplift 3=-5 (LC<br>(LC 12)<br>Max Grav 3=10 (LC<br>(LC 12)<br>(lb) - Maximum Com<br>Tension<br>2-5=-143/114, 1-2=0<br>4-5=-69/17<br>2-4=-19/79<br>2C 7-16; Vult=115mph<br>nph; TCDL=6.0psf; BC<br>Cat. II; Exp C; Enclose<br>ne and C-C Exterior(2<br>exposed ; end vertical 1<br>C-f or members and for<br>shown; Lumber DOL=1<br>has been designed for<br>load nonconcurrent wi<br>tre assumed to be: , Jo<br>f 565 psi.<br>rder(s) for truss to trus<br>echanical connection (<br>ate capable of withstar<br>lift at joint 4 and 5 lb u | t* 4-2:2x3 SPF No.2<br>athing directly applied<br>cept end verticals.<br>applied or 10-0-0 oc<br>nical, 4= Mechanical,<br>11)<br>1), 4=-12 (LC 12), 5=-<br>8), 4=19 (LC 3), 5=18<br>pression/Maximum<br>//32, 2-3=-32/14<br>(3-second gust)<br>DL=6.0psf; h=35ft;<br>d; MWFRS (envelope<br>E) zone; cantilever le<br>eft and right<br>proces & MWFRS for<br>1.60 plate grip<br>• a 10.0 psf bottom<br>th any other live load<br>bint 5 SP No.2 crushin<br>ss connections.<br>by others) of truss to<br>iding 31 lb uplift at joi<br>plift at joint 3. | <ul> <li>a) This truss is International R802.10.2 at LOAD CASE(S)</li> <li>b) d or</li> <li>c) an analysis of the second second</li></ul> | designed in accord<br>Residential Code s<br>nd referenced stand<br>Standard | ance wi<br>ections<br>dard AN | th the 2018<br>R502.11.1 a<br>SI/TPI 1.  | nd                         |                        |                               |                          | STATE OF M<br>STATE OF M<br>SCOTT<br>SEVI<br>DE-20010<br>RE-20010 | MISSOLUTION<br>F.M.<br>ER<br>DISSO7<br>L ENGINE |
|  |   |   |   |   |                               |  |                            |                        |                               |                          | January   | 29,2025   |

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 | Roof - HM Lot 200        |           |
|------------|-------|--------------|-----|-----|--------------------------|-----------|
| P250041-01 | LG1   | Lay-In Gable | 1   | 1   | Job Reference (optional) | 171039458 |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 28 08:55:54 ID:7jxefnJxXb6EpH4\_yVdChlzsQYs-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:31.5

Plate Offsets (X, Y): [3:Edge,0-3-2]

| 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       |                 | TC                | 0.08       | Vert(LL)        | n/a  | -     | n/a       | 999       | MT20          | 244/190        |
| TCDL          | 10.0  | Lumber DOL             | 1.15       |                 | BC                | 0.03       | Vert(TL)        | n/a  | -     | n/a       | 999       |               |                |
| BCLL          | 0.0   | Rep Stress Incr        | YES        |                 | WB                | 0.04       | Horiz(TL)       | 0.00 | 5     | n/a       | n/a       |               |                |
| BCDL          | 10.0  | Code                   | IRC2018    | 3/TPI2014       | Matrix-P          |            |                 |      |       |           |           | Weight: 24 lb | FT = 20%       |
| LUMBER        |   |                        | 6)         | This truss ha   | is been designed  | for a 10.0 | ) psf bottom    |      |       |           |           |               |                |
| TOP CHORD     | 2x4 SP No.2   |                        |            | chord live loa  | ad nonconcurrent  | with any   | other live loa  | ds.  |       |           |           |               |                |
| BOT CHORD     | 2x4 SP No.2   |                        | 7)         | All bearings    | are assumed to b  | e SP No.   | 2 crushing      |      |       |           |           |               |                |
| OTHERS        | 2x3 SPF No.2  |                        |            | capacity of 5   | 65 psi.           |            |                 |      |       |           |           |               |                |
| BRACING       |   |                        | 8)         | Provide mec     | hanical connectio | on (by oth | ers) of truss t | 0    |       |           |           |               |                |
| TOP CHORD     | P CHORD Structural wood sheathing directly applied or bearing plate capable of withstanding 10 lb uplift at joint |                        |            |                 |                   |            |                 |      |       |           |           |               |                |
|               | 5-7-5 oc purlins.   |                        |            |                 |                   |            |                 |      |       |           |           |               |                |
| BOT CHORD     | Rigid ceiling directly  | applied or 10-0-0 o    | c .        | uplift at joint | 6.                |            |                 |      |       |           |           |               |                |
|               | bracing.  |                        | 9)         | This truss is   | designed in acco  | rdance w   | ith the 2018    |      |       |           |           |               |                |
| REACTIONS     | (size) 1=5-7-5,   | 5=5-7-5, 6=5-7-5, 7=   | =5-7-5     | International   | Residential Code  | e sections | R502.11.1 a     | nd   |       |           |           |               |                |
|               | Max Horiz 1=-98 (LC   | C 8)                   |            | R802.10.2 a     | nd referenced sta | indard AN  | ISI/TPI 1.      |      |       |           |           |               |                |
|               | Max Uplift 1=-10 (LC  | C 10), 5=-8 (LC 11),   | LC         | DAD CASE(S)     | Standard          |            |                 |      |       |           |           |               |                |
|               | 6=-142 (L   | _C 13), 7=-143 (LC 1   | 12)        |                 |                   |            |                 |      |       |           |           |               |                |
|               | Max Grav 1=107 (L   | C 21), 5=106 (LC 22    | 2),        |                 |                   |            |                 |      |       |           |           |               |                |
|               | 6=189 (L  | C 20), 7=191 (LC 19    | 9)         |                 |                   |            |                 |      |       |           |           |               |                |
| FORCES        | (lb) - Maximum Con<br>Tension   | npression/Maximum      |            |                 |                   |            |                 |      |       |           |           |               |                |
| TOP CHORD     | 1-2=-148/136, 2-3=<br>4-5=-147/136  | -51/11, 3-4=-51/10,    |            |                 |                   |            |                 |      |       |           |           |               |                |
| BOT CHORD     | 1-7=-112/128.6-7=   | -114/129. 5-6=-112/    | 128        |                 |                   |            |                 |      |       |           |           |               |                |
| WEBS          | 2-7=-204/166, 4-6=  | -204/166               |            |                 |                   |            |                 |      |       |           |           |               |                |
| NOTES         |   |                        |            |                 |                   |            |                 |      |       |           |           |               |                |
| 1) Unbalanc   | ed roof live loads have   | been considered fo     | or         |                 |                   |            |                 |      |       |           |           |               |                |
| , this desig  | n.  |                        |            |                 |                   |            |                 |      |       |           |           | A TI          | and the second |
| 2) Wind: AS   | CE 7-16; Vult=115mph  | n (3-second gust)      |            |                 |                   |            |                 |      |       |           |           | F. OF I       | NISS OF        |
| Vasd=91r      | mph; TCDL=6.0psf; BC  | DL=6.0psf; h=35ft;     |            |                 |                   |            |                 |      |       |           | 6         |               | N.S.           |
| Ke=1.00;      | Cat. II; Exp C; Enclose   | ed; MWFRS (envelop     | pe)        |                 |                   |            |                 |      |       |           | B         | SCOT          | TM XPN         |
| exterior z    | one and C-C Exterior(2  | 2E) zone; cantilever   | left       |                 |                   |            |                 |      |       |           | R         | SEV           |                |
| and right     | exposed ; end vertical  | left and right         |            |                 |                   |            |                 |      |       |           | a         |               |                |
| exposed;      | C-C for members and   | forces & MWFRS for     | r          |                 |                   |            |                 |      |       |           | <b>NX</b> |               |                |
| reactions     | shown; Lumber DOL=  | 1.60 plate grip        |            |                 |                   |            |                 |      |       |           |           | ROL-          | RONNIN         |
| DOL=1.60      | U<br>Vanad far wind la!- !::  | the slove of the two   |            |                 |                   |            |                 |      |       |           | NUM       |               |                |
| 3) I russ des | signed for wind loads if  | i the plane of the tru |            |                 |                   |            |                 |      | N2    | O PE-2001 | 018807    |               |                |
| See Store     | ard Industry Cable En   | d Details as applicat  | i),<br>hla |                 |                   |            |                 |      |       |           | N         | A             | 124            |
| or consult    | t qualified building desi   | igner as ner ANSI/TI   | PI 1       |                 |                   |            |                 |      |       |           | Y         | A So.         | C'H            |
| 4) Gable rec  | uires continuous botto  | m chord bearing        |            |                 |                   |            |                 |      |       |           |           | UN ONA        | LEFA           |
|               |   | in chord bearing.      |            |                 |                   |            |                 |      |       |           |           | Un III        | - 0            |

- or consult qualified building designer as per ANSI/TPI 1. Gable requires continuous bottom chord bearing. 4)
- 5) Gable studs spaced at 0-0-0 oc.

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January 29,2025

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| Job        | Truss | Truss Type   | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|--------------|-----|-----|--------------------------|-----------|
| P250041-01 | LG2   | Lay-In Gable | 1   | 1   | Job Reference (optional) | 171039459 |

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10-10-15

Scale = 1:46

| Leading<br>TCLL (root)(psf)<br>25.0Spacing<br>Plate Grip DOL2-0-0<br>1.15CSI<br>TCDEFLin(loc) $l/defL$ L/d<br>PLATESPLATES<br>GRIPBCLL0.00<br>BCDL10.01.15TC0.09<br>BCVert(TL) $n/a$ - $n/a$ 999<br>999BCLL0.00<br>BCDL10.0Reg Stress IncrYES<br>CodeWB0.14Vert(TL) $n/a$ - $n/a$ 999<br>999Horiz(TL)0.007 $n/a$ 999Wit20244/190LUMBER<br>TOP CHORD2x4 SP No.2Structural wood sheathing directly applied or<br>6-0-0 oc purlins.20Wind: ASCE 7-16; Vult=115mph (3-second gust)<br>Vasd=91mph; TCDL=6.0pst; BCDL=6.0pst; BCDL=6.0pst; BCDL=6.0pst; BCDL=6.0pst; BCDL=6.0pst; BCDL=6.0pst; BCDL=6.0pst; BCDL=6.0pst; BCDL=6.0pst; Comerce and life transfer to zone and C-C Exterior(2E) zone; cantilever left<br>and right exposed ; end vertical left and right<br>exposed c: C-C for members and forces & MWFRS for<br>reactions shown; Lumber DOL=1.60BOT CHORD<br>CHORD1:10-10-15, 7=10-10-15,<br>$12=10-10-15, 1=1-10-15, 3=10-10-15, 1=1-10-10, 1=2020 (LC 8)Signed for wind loads in the plane of the trussor onsult qualified building designer as per ANSUTPI 1.Max Upilit1=96 (LC 10), 7=72 (LC 11),B=199 (LC 13), 9=-156 (LC 13),1=238 (LC 12), 12=-198 (LC 13), 9=-156 (LC 13),1=238 (LC 12), 11=208 (LC 13), 11=206 (LC 13), 11=206 (LC 13),1=238 (LC 13), 11=206 (LC 13), 11=206 (LC 13),1=238 (LC 13), 11=206 (LC 13), 11=206 (LC 13), 11=206 (LC 13),1=238 (LC 13), 11=206 (LC 13), 11=206 (LC 13),1=238 (LC 13), 11=206 (LC 13), 11=206 (LC 13),1=238 (LC 13), $  |   |
|---|---|
| BRACING         TOP CHORD       Structural wood sheathing directly applied or<br>6-0-0 oc purlins.         BOT CHORD       Rigid ceiling directly applied or 10-0-0 oc<br>bracing.         REACTIONS       (size)         1=10-10-15, 7=10-10-15,<br>8=10-10-15, 1=10-10-15,<br>12=10-10-15         Max Horiz       1=-202 (LC 8)         Max Uplift       1=-96 (LC 10), 7=-72 (LC 11),<br>8=-199 (LC 12), 12=-198 (LC 12),<br>11=-158 (LC 12), 12=-198 (LC 12),<br>8=239 (LC 20), 9=204 (LC 20),<br>10=138 (LC 13), 11=206 (LC 19),<br>10=138 (LC 13), 11=206 (LC 19),  |   |
| REACTIONS(size)1=10-10-15, 7=10-10-15, 8=10-10-15, 8=10-10-15, 9=10-10-15, 11=10-10-15, 11=10-10-15, 11=10-10-15, 11=10-10-15, 10=10-10-15, 11=10-10-15, 10=10-10-15, 11=-010-15, 11=10-10-15, 10=10-10-15, 11=-010-15, 10=10-10-15, 11=-010-15, 10=10-10-15, 11=-010-15, 10=10-10, 10=10-10-15, 10=10-10, 10=10-10-15, 10=10-10, 10=10-10, 10=10-10, 10=10-10, 10=10-10, 10=10-10, 10=10-10, 10=10-10, 10=10-10, 10=10-10, 10=10-10, 10=10-10, 10=10-10, 10=10-10, 10=10-10, 10=1                                  |   |
| 12=238 (LC 19) 1. 72 by uplify at joint 7 109 by uplify at joint 7.109 |   |
| FORCES (Ib) - Maximum Compression/Maximum<br>Tension Tension (Ib) - Maximum Compression/Maximum uplift at joint 1, 198 ib uplift at joint 12, 158 ib<br>ioint 11, 156 ib uplift at joint 12, 158 ib   |   |
| TOP CHORD 1-2=-286/199, 2-3=-142/103, 3-4=-128/118, 10) This truss is designed in accordance with the 2018  |   |
| H-3=-120/117, 5-0=-113/12, 6/192, 6/1=20/119       International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.         BOT CHORD       1-12=-146/199, 9-10=-146/199, 8-9=-146/199, 8-9=-146/199, 7-8=-145/198       International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.         WEBS       2-12=-249/215, 3-11=-206/182, 4-10=-130/100, 5-9=-206/180, 6-8=-249/216       LOAD CASE(S)       Standard         NOTES       Scott M. SEVIER  | 8 |

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



DEVELOPMENT SERVICES LEE'S'SUMMIT'S MISSOURI 02/04/2025 11:09:50

TION IEW

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| Job        | Truss | Truss Type   | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|--------------|-----|-----|--------------------------|-----------|
| P250041-01 | LG3   | Lay-In Gable | 1   | 1   | Job Reference (optional) | 171039460 |

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5-8-14





Scale = 1:27.7

|  | A, T). [3.0-2-0,1   | Luyej,  | [4.0-0-0,Euge]  |  |  |   |  |  |                          |                      |                             |                          |   |   |  |
|--|---|---|---|--|--|---|--|--|--------------------------|----------------------|-----------------------------|--------------------------|---|---|--|
| Loading<br>FCLL (roof)<br>FCDL<br>BCLL<br>BCDL   | (r<br>2<br>1<br>1   | psf)<br>25.0<br>0.0<br>0.0<br>0.0   | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code  | 2-0-0<br>1.15<br>1.15<br>YES<br>IRC2018    | 3/TPI2014  | <b>CSI</b><br>TC<br>BC<br>WB<br>Matrix-P  | 0.05<br>0.03<br>0.05   | <b>DEFL</b><br>Vert(LL)<br>Vert(TL)<br>Horiz(TL)   | in<br>n/a<br>n/a<br>0.00 | (loc)<br>-<br>-<br>5 | l/defl<br>n/a<br>n/a<br>n/a | L/d<br>999<br>999<br>n/a | PLATES<br>MT20<br>Weight: 21 lb                     | <b>GRIP</b><br>244/190<br>FT = 20%        |  |
| UMBER<br>FOP CHORD<br>OT CHORD<br>DTHERS<br>SRACING<br>FOP CHORD<br>BOT CHORD<br>REACTIONS   | 2x4 SP No.2<br>2x4 SP No.2<br>2x3 SPF No.2<br>Structural woo<br>5-9-7 oc purlin<br>Rigid ceiling d<br>bracing.<br>(size) 1=5<br>7=5<br>Max Horiz 1=-<br>Max Uplift 6=-{<br>Max Grav 1=7<br>(LC  | od shea<br>hs.<br>Jirectly<br>5-8-14,<br>5-8-14<br>66 (LC<br>83 (LC<br>76 (LC<br>20), 7   | athing directly applied<br>applied or 10-0-0 oc<br>5=5-8-14, 6=5-8-14,<br>8)<br>13), 7=-85 (LC 12)<br>21), 5=75 (LC 22), 6<br>=168 (LC 19)  | 6)<br>7)<br>8)<br>d or<br>9)<br>LC<br>=166 | This truss ha<br>chord live loa<br>All bearings a<br>capacity of 5<br>Provide mech<br>bearing plate<br>7 and 83 lb u<br>This truss is<br>International<br>R802.10.2 ar | s been designed fo<br>an onconcurrent w<br>are assumed to be<br>65 psi.<br>hanical connection<br>capable of withsta<br>plift at joint 6.<br>designed in accord<br>Residential Code s<br>do referenced stand<br>Standard | or a 10.0<br>rith any<br>SP No.<br>(by oth<br>nding 8<br>ance w<br>sections<br>dard AN | D psf bottom<br>other live load<br>2 crushing<br>ers) of truss to<br>5 lb uplift at jo<br>15 lb uplift at jo<br>16 kg 2018<br>ith the 2018<br>ith the 2018<br>ith TPI 1. | ds.<br>D<br>Dint         |                      |                             |                          |   |   |  |
|  | (Ib) - Maximun<br>Tension<br>1-2=-136/62, 2   | n Com<br>2-3=-59  | pression/Maximum<br>9/27, 3-4=-59/31,   |  |  |   |  |  |                          |                      |                             |                          |   |   |  |
| BOT CHORD  | 4-5=-111/62<br>1-7=-59/121, 6<br>2-7=-139/211,  | 6-7=-59<br>4-6=-1   | 9/121, 5-6=-59/121<br>139/174   |  |  |   |  |  |                          |                      |                             |                          |   |   |  |
|  |   |   |   |  |  |   |  |  |                          |                      |                             |                          |   |   |  |
| ) Unbalance  | d roof live loads   | shave   | been considered for   |  |  |   |  |  |                          |                      |                             |                          |   |   |  |
| <ul> <li>Wind: ASC<br/>Vasd=91m<br/>Ke=1.00; C<br/>exterior zo<br/>and right e<br/>exposed;C<br/>reactions s<br/>DOL=1.60</li> <li>Truss desi<br/>only. For s<br/>see Standa<br/>or consult</li> <li>Gable requ</li> <li>Gable stud</li> </ul> | E 7-16; Vult=11<br>ph; TCDL=6.0p<br>2at. II; Exp C; Er<br>ne and C-C Ext<br>xposed ; end ve<br>t-C for members<br>shown; Lumber I<br>gned for wind lo<br>studs exposed to<br>ard Industry Gat<br>qualified building<br>irres continuous<br>Is spaced at 0-0 | I5mph<br>Isf; BCI<br>nclosed<br>erior(2l<br>eritical less<br>and fo<br>DOL=1<br>pads in<br>o wind<br>ble Enco<br>g desig<br>botton<br>I-0 oc. | (3-second gust)<br>DL=6.0psf; h=35ft;<br>d; MWFRS (envelop<br>E) zone; cantilever le<br>eft and right<br>prces & MWFRS for<br>.60 plate grip<br>the plane of the trus<br>(normal to the face),<br>d Details as applicab<br>gner as per ANSI/TPI<br>n chord bearing. | e)<br>bft<br>s<br>le,<br>l 1.              |  |   |  |  |                          |                      | J                           |                          | State OF M<br>SCOTT<br>SEVI<br>PE-20010<br>PE-20010 | AISSOLA<br>M.<br>ER<br>18807 E<br>L ENGIN |  |
|  |   |   |   |  |  |   |  |  |                          |                      |                             |                          | January   | 29,2025                                   |  |

#### RELEASE AS NOTE TRUCTION **IEW** DEVELOPMEN SERVICES LEE'S' SUMMIT'S MISSOURI 02/04/2025 11:09:50

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Plate Offsets (X, Y): [3:0-2-0.Edge], [4:0-0-0.Edge]

| Job        | Truss | Truss Type   | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|--------------|-----|-----|--------------------------|-----------|
| P250041-01 | LG4   | Lay-In Gable | 1   | 1   | Job Reference (optional) | 171039461 |

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ELOPMENT SERVICES

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

| Job        | Truss | Truss Type   | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|--------------|-----|-----|--------------------------|-----------|
| P250041-01 | LG5   | Lay-In Gable | 1   | 1   | Job Reference (optional) | 171039462 |

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12=276 (LC 20), 13=194 (LC 20), 14=158 (LC 26), 15=190 (LC 25), 16=158 (LC 25), 17=201 (LC 19), 19=274 (LC 19)

#### FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-307/196, 2-3=-153/99, 3-4=-123/101, 4-5=-100/95, 5-6=-100/95, 6-7=-100/95, 7-8=-100/95, 8-9=-123/100, 9-10=-128/65, 10-11=-287/196 BOT CHORD 1-19=-150/224, 17-19=-151/225, 16-17=-151/225, 15-16=-151/225,

TCDL

BCLL

BCDL

14-15=-151/225, 13-14=-151/225, 12-13=-151/224, 11-12=-150/223

- 7) Gable studs spaced at 0-0-0 oc.
- This truss has been designed for a 10.0 psf bottom 8)
- chord live load nonconcurrent with any other live loads. All bearings are assumed to be SP No.2 crushing 9)
- capacity of 565 psi. 10) Provide mechanical connection (by others) of truss to
- bearing plate capable of withstanding 88 lb uplift at joint 1, 64 lb uplift at joint 11, 232 lb uplift at joint 19, 135 lb uplift at joint 17, 36 lb uplift at joint 16, 55 lb uplift at joint 15, 14 lb uplift at joint 14, 129 lb uplift at joint 13 and 233 Ib uplift at joint 12.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

OF MISS SCOTT M. SEVIER OFT PE-200101880 SIONAL E January 29,2025



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| Job        | Truss | Truss Type   | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|--------------|-----|-----|--------------------------|-----------|
| P250041-01 | LG6   | Lay-In Gable | 1   | 1   | Job Reference (optional) | 171039463 |

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26-10-15 4-11-0 21-11-15 26-8-5 4-11-0 0-2-10 17-0-14 4-8-6 3x4 🍬 5x5 = 3x4 💊 5 6 7 8 9 10 11 12 13 14 4  $\bowtie$  $\boxtimes$  $\boxtimes$  $\boxtimes$  $\boxtimes$  $\boxtimes$  $\boxtimes$  $\boxtimes$ T 3 15 2 16 12 15.6 Г



Scale = 1:49.4

6-1-5

6-5-0

### Plate Offsets (X, Y): [4:0-1-4,Edge], [12:0-2-8,0-3-0], [14:0-1-4,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                     | 0.09         | Vert(LL)        | n/a       | -      | n/a                     | 999          | MT20              | 244/190               |            |
| TCDL        |            | 10.0         | Lumber DOL                     | 1.15        |               | BC                     | 0.04         | Vert(TL)        | n/a       | -      | n/a                     | 999          |                   |                       |            |
| BCLL        |            | 0.0          | Rep Stress Incr                | YES         |               | WB                     | 0.13         | Horiz(TL)       | 0.01      | 17     | n/a                     | n/a          |                   |                       |            |
| BCDL        |            | 10.0         | Code                           | IRC201      | 8/TPI2014     | Matrix-S               |              |                 |           |        |                         |              | Weight: 142       | lb FT = 20%           |            |
| LUMBER      |            |              |                                | Т           | OP CHORD      | 1-2=-284/178, 2-3      | 3=-137/10    | 1, 3-4=-96/77   | ,         | 7) Ga  | ble studs               | s spac       | ed at 0-0-0 oc.   |                       |            |
| TOP CHORD   | 2x4 SP N   | 0.2          |                                |             |               | 4-5=-76/73, 5-6=-      | 76/73, 6-    | 7=-76/73,       |           | 8) Th  | is truss h              | as bee       | en designed fo    | r a 10.0 psf bott     | om         |
| BOT CHORD   | 2x4 SP N   | 0.2          |                                |             |               | 7-8=-76/73, 8-9=-      | 76/73, 9-    | 10=-76/73,      |           | ch     | ord live lo             | oad no       | nconcurrent w     | ith any other live    | loads.     |
| OTHERS      | 2x3 SPF    | No.2         |                                |             |               | 10-11=-76/73, 11       | -13=-77/7    | 3, 13-14=-77/   | 73,       | 9) Al  | bearings                | are a        | ssumed to be      | SP No.2 crushin       | g          |
| BRACING     |            |              |                                |             |               | 14-15=-97/74, 15       | -16=-117/    | 59,             |           | ca     | pacity of               | 565 ps       | si.               |                       |            |
| TOP CHORD   | Structura  | I wood she   | athing directly applie         | ed or       |               | 16-17=-260/170         |              |                 |           | 10) Pr | ovide me                | chanic       | al connection     | (by others) of tru    | iss to     |
|             | 6-0-0 oc i | purlins, exc | cept                           | B           | OT CHORD      | 1-31=-123/194, 3       | 0-31=-124    | 4/194,          |           | be     | aring pla               | te capa      | able of withsta   | nding 94 lb uplift    | at joint   |
|             | 2-0-0 oc   | purlins (6-0 | -0 max.): 4-14.                |             |               | 29-30=-124/195,        | 28-29=-12    | 24/195,         |           | 1,     | 64 lb upli              | ft at jo     | int 17, 204 lb ι  | uplift at joint 31,   | 124 lb     |
| BOT CHORD   | Rigid ceil | ing directly | applied or 10-0-0 or           | 0           |               | 27-28=-124/195,        | 25-27=-12    | 24/195,         |           | up     | lift at join            | t 30, 3      | 8 lb uplift at jo | int 29, 49 lb uplif   | t at joint |
|             | bracing.   | 0 ,          |                                |             |               | 24-25=-124/195,        | 23-24=-12    | 24/195,         |           | 28     | , 40 lb up              | lift at j    | oint 27, 34 lb ι  | uplift at joint 25, 2 | 28 lb      |
| REACTIONS   | (size)     | 1=26-10-1    | 15. 17=26-10-15.               |             |               | 22-23=-124/195,        | 21-22=-12    | 24/195,         |           | up     | lift at join            | t 24, 3      | 4 lb uplift at jo | int 23, 41 lb uplit   | t at joint |
|             | ()         | 18=26-10     | -15, 19=26-10-15,              |             |               | 20-21=-123/194,        | 19-20=-12    | 23/194,         |           | 22     | , 44 lb up              | lift at j    | oint 21, 18 lb l  | iplift at joint 20,   | 113 10     |
|             |            | 20=26-10     | -15, 21=26-10-15,              | 14          |               | 18-19=-123/194,        | 17-18=-12    | 22/193          |           | up     | lift at join            | t 19 ar      | nd 207 lb uplift  | at joint 18.          | 10         |
|             |            | 22=26-10     | -15, 23=26-10-15,              | VV          | EBS           | 2-31 = -228/220, 3     | -30=-167/    | 150,            | <b>CF</b> | 11) In | IS Truss IS             | aesig        | ned in accord     | ance with the 20      | 18         |
|             |            | 24=26-10     | -15, 25=26-10-15,              |             |               | 9 25- 122/56 0 2       | 20=-145/7    | 10 22- 122/     | 00,<br>56 |        |                         | and ro       | forenced store    | And ANSI/TRI 1        | . i anu    |
|             |            | 27=26-10     | -15, 28=26-10-15,              |             |               | $11_{22} = 123/30, 92$ | 2-2114       | 5/68            | 50,       | 12) Cr | oz. 10.2 (<br>anhical n | urlin re     |                   | does not depict (     | ho sizo    |
|             |            | 29=26-10     | -15, 30=26-10-15,              |             |               | 13-20-121/42 1         | 5-1015       | 3/139           |           | 12) Gi | apriicai p<br>the orien | tation       | of the nurlin al  | ong the top and       | or         |
|             |            | 31=26-10     | -15                            |             |               | 16-18=-229/223         | 0 10- 10     | <i>b</i> /100,  |           | bo     | ttom cho                | rd           |                   | ong the top and       | 01         |
|             | Max Horiz  | 1=-184 (L    | .C 8)                          | N           | OTES          | 10 10- 220/220         |              |                 |           |        | CASE/S                  | u.<br>N Sta  | ndard             |                       |            |
|             | Max Uplift | 1=-94 (LC    | C 10), 17=-64 (LC 11           | ), IN<br>1) |               | l roof live loade he   | ve heen      | ongidered for   |           | LUAD   | CASE(S                  | <b>)</b> 31a | inuaru            |                       |            |
|             |            | 18=-207 (    | LC 13), 19=-113 (LC            | י C 13), יי | this design   | 11001 live loaus ha    | ive been t   |                 |           |        |                         |              |                   |                       |            |
|             |            | 20=-18 (L    | .C 9), 21=-44 (LC 9),          | ' 2)        | Wind ASCI     | = 7-16: \/ult=115m     | nh (3-cor    | ond quet)       |           |        |                         |              |                   |                       |            |
|             |            | 22=-41 (L    | C 9), 23=-34 (LC 8),           | <u>ک</u>    | Vasd-91mr     | b: TCDI -6 Opsf: I     | BCDI -6 (    | Inst h-35ft     |           |        |                         |              | -                 | con l                 |            |
|             |            | 24=-28 (L    | C 9), 25=-34 (LC 8),           |             | Ke=1 00. C    | at II: Exp C: Enclo    | sed MW       | FRS (envelop    | e)        |        |                         |              | and the second    | Am                    |            |
|             |            | 27=-40 (L    | (C 9), 28 = -49 (LC 8), (LC 8) |             | exterior zon  | e and C-C Exterio      | r(2F) 0-3    | -9 to 4-11-3    | 0)        |        |                         |              | A. OI             | MISC                  |            |
|             |            | 29=-38 (L    | .C 9), 30=-124 (LC 1           | 2),         | Exterior(2R   | 4-11-3 to 11-11-1      | 12 Interio   | r (1) 11-11-12  | to        |        |                         | 1            | 950               |                       | ₽ I        |
|             | May Cray   | 31=-204 (    | LO IZ)<br>2 12) 17 104 (LC 1   | 2)          | 22-0-2. Exte  | erior(2E) 22-0-2 to    | 26-7-12      | zone: cantileve | er        |        |                         | B            | N/ sco            | TT M                  | N          |
|             | Max Grav   | 18_2/1 (LC   | C 20) 10-102 (LC 1             | 3),<br>20)  | left and righ | t exposed ; end ve     | ertical left | and right       |           |        |                         | R            | S SUC             |                       | ~ Y        |
|             |            | 20-161 (     | C 26) 21-185 (LC               | 20),<br>25) | exposed;C-    | C for members an       | d forces &   | & MWFRS for     |           |        |                         | ha           | SE SE             | VIER                  | . X        |
|             |            | 22=186 (L    | C 26), 23=159 (LC              | 25),<br>25) | reactions sh  | own; Lumber DOI        | L=1.60 pla   | ate grip        |           |        |                         | M/           |                   |                       | × A        |
|             |            | 24=123 (I    | C(1) 25=159 (IC 2)             | 6)          | DOL=1.60      |                        |              |                 |           |        | (                       | ℋ            | Soll?             | 'ADAL                 | 10D        |
|             |            | 27=184 (1    | C 25) 28=185 (I C              | 26) 3)      | Truss desig   | ned for wind loads     | s in the pla | ane of the trus | S         |        | <b>/</b>                | <b>W</b> 7   | NII               | MBER                  | 20         |
|             |            | 29=164 (L    | _C 25), 30=205 (LC             | 19).        | only. For st  | uds exposed to wi      | ind (norm    | al to the face) | ,         |        |                         | 14           | DE 20             | 01010007              | HA         |
|             |            | 31=237 (L    | _C 19)                         |             | see Standa    | rd Industry Gable      | End Deta     | ils as applicab | le,       |        |                         | <i>S</i>     | CALLE-20          | 0101000/              | 88         |
| FORCES      | (lb) - Max | imum Com     | pression/Maximum               |             | or consult q  | ualified building de   | esigner as   | s per ANSI/TP   | 11.       |        |                         | Y            | A Co              | C.V.                  | A          |
|             | Tension    |              |                                | 4)          | Provide ade   | quate drainage to      | prevent v    | vater ponding   |           |        |                         |              | V SION            | INT ENS               | 7          |
|             |            |              |                                | 5)          | All plates a  | e 1.5x4 MT20 unle      | ess other    | wise indicated  |           |        |                         |              | APAN A            | IAL                   |            |
|             |            |              |                                | 6)          | Gable requi   | res continuous bo      | ttom chor    | d bearing.      |           |        |                         |              | - March           | 000                   |            |

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| Job        | Truss | Truss Type   | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|--------------|-----|-----|--------------------------|-----------|
| P250041-01 | LG7   | Lay-In Gable | 2   | 1   | Job Reference (optional) | 171039464 |

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Scale = 1:31.1

| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL  | (psf)<br>25.0<br>10.0<br>0.0<br>10.0  | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code                  | 2-0-0<br>1.15<br>1.15<br>YES<br>IRC2018 | 8/TPI2014  | CSI<br>TC<br>BC<br>WB<br>Matrix-P  | 0.30<br>0.04<br>0.10   | DEFL<br>Vert(LL)<br>Vert(TL)<br>Horiz(TL)  | in<br>n/a<br>n/a<br>0.00 | (loc)<br>-<br>-<br>4 | l/defl<br>n/a<br>n/a<br>n/a | L/d<br>999<br>999<br>n/a | PLATES<br>MT20<br>Weight: 20 lb | <b>GRIP</b><br>244/190<br>FT = 20% |
|---|---|---|---|--|--|--|--|--------------------------|----------------------|-----------------------------|--------------------------|---------------------------------|------------------------------------|
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD | 2x4 SP No.2<br>2x4 SP No.2<br>2x3 SPF No.2<br>2x3 SPF No.2<br>Structural wood she<br>4-7-13 oc purlins, e<br>Rigid ceiling directly<br>bracing. | athing directly applie<br>xcept end verticals.<br>applied or 10-0-0 or              | 6)<br>7)<br>8)<br>ed or<br>c <b>LC</b>  | All bearings<br>capacity of 4<br>Provide mer<br>bearing plat<br>1, 47 lb upli<br>This truss is<br>Internationa<br>R802.10.2 a<br>DAD CASE(S) | are assumed t<br>665 psi.<br>chanical conner<br>e capable of wi<br>ft at joint 4 and<br>designed in ac<br>I Residential Co<br>and referenced<br>Standard | o be SP No.<br>ction (by oth<br>ithstanding 2<br>149 lb uplift<br>ccordance w<br>ode sections<br>standard AN | 2 crushing<br>ers) of truss<br>26 lb uplift at<br>at joint 5.<br>ith the 2018<br>5 R502.11.1<br>ISI/TPI 1. | to<br>joint<br>and       |                      |                             |                          |                                 |                                    |
| REACTIONS   | (size) 1=4-7-9, 4<br>Max Horiz 1=166 (LC<br>Max Uplift 1=-26 (LC<br>(LC 12)<br>Max Grav 1=129 (LC<br>5=260 (LC                                  | 4=4-7-9, 5=4-7-9<br>C 9)<br>C 8), 4=-47 (LC 9), 5:<br>C 20), 4=80 (LC 19),<br>C 19) | =-149<br>,                              |  |  |  |  |                          |                      |                             |                          |                                 |                                    |
| FORCES  | (lb) - Maximum Corr<br>Tension  | pression/Maximum  |   |  |  |  |  |                          |                      |                             |                          |                                 |                                    |
| TOP CHORD   | 1-2=-430/227, 2-3=-   | 157/117, 3-4=-108/1   | 148                                     |  |  |  |  |                          |                      |                             |                          |                                 |                                    |
| BOT CHORD   | 1-5=-80/87, 4-5=-80   | /87   |   |  |  |  |  |                          |                      |                             |                          |                                 |                                    |

WEBS 2-5=-207/417

#### NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.

4) Gable studs spaced at 2-0-0 oc.

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

January 29,2025



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| Job        | Truss | Truss Type   | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|--------------|-----|-----|--------------------------|-----------|
| P250041-01 | LG8   | Lay-In Gable | 2   | 1   | Job Reference (optional) | 171039465 |

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1.5x4 🛚

3-2-7

Scale = 1:32.8

| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL   |   | (psf)<br>25.0<br>10.0<br>0.0<br>10.0                       | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code                       | 2-0-0<br>1.15<br>1.15<br>YES<br>IRC2 | 018/TPI2014   | CSI<br>TC<br>BC<br>WB<br>Matrix-P  | 0.26<br>0.03<br>0.06   | <b>DEFL</b><br>Vert(LL)<br>Vert(TL)<br>Horiz(TL)   | in<br>n/a<br>n/a<br>0.00 | (loc)<br>-<br>-<br>4 | l/defl<br>n/a<br>n/a<br>n/a | L/d<br>999<br>999<br>n/a | PLATES<br>MT20<br>Weight: 16 lb | <b>GRIP</b><br>244/190<br>FT = 20% |
|--|---|--|--|--------------------------------------|---|--|--|--|--------------------------|----------------------|-----------------------------|--------------------------|---------------------------------|------------------------------------|
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS | 2x4 SP No.2<br>2x4 SP No.2<br>2x3 SPF No.<br>2x3 SPF No.<br>2x3 SPF No.<br>Structural wo<br>3-2-10 oc pu<br>Rigid ceiling<br>bracing. | 2<br>2<br>ood shea<br>urlins, ex<br>directly               | athing directly applie<br>ccept end verticals.<br>applied or 10-0-0 oc<br>=3-2-7 5=3-2-7 | d or                                 | <ol> <li>All bearings<br/>capacity of §</li> <li>Provide mer<br/>bearing plat<br/>joint 1, 74 lb</li> <li>This truss is<br/>Internationa<br/>R802.10.2 a</li> <li>LOAD CASE(S)</li> </ol> | are assumed to<br>565 psi.<br>chanical connect<br>e capable of wi<br>uplift at joint 4<br>designed in ac<br>I Residential Co<br>and referenced<br>Standard | o be SP No.<br>ction (by oth<br>thstanding 1<br>and 175 lb<br>ccordance w<br>ode sections<br>standard AN | 2 crushing<br>ers) of truss<br>00 lb uplift a<br>uplift at joint<br>th the 2018<br>R502.11.1 a<br>ISI/TPI 1. | to<br>it<br>5.<br>and    |                      |                             |                          |                                 |                                    |
|  | Max Horiz 1=<br>Max Uplift 1=<br>5=<br>Max Grav 1=<br>5=  | =155 (LC<br>=-100 (LC<br>=-175 (LC<br>=153 (LC<br>=218 (LC |  |                                      |   |  |  |  |                          |                      |                             |                          |                                 |                                    |
| FORCES   | (lb) - Maximu<br>Tension  | um Com   | pression/Maximum   |                                      |   |  |  |  |                          |                      |                             |                          |                                 |                                    |
|  | 4 0 040/04  | 0 0 0 4  | 70/470 0 4 477/4   | E 4                                  |   |  |  |  |                          |                      |                             |                          |                                 |                                    |

TOP CHORD 1-2=-340/342, 2-3=-170/173, 3-4=-177/151 BOT CHORD 1-5=-73/79, 4-5=-75/82 WEBS 2-5=-249/256

#### NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 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. 3) Gable requires continuous bottom chord bearing.

4) Gable studs spaced at 2-0-0 oc.

- 5)
- 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 NUMBER PE-200101880' SIONAL E January 29,2025

 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.sbcscomponents.com)



| Job        | Truss | Truss Type   | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|--------------|-----|-----|--------------------------|-----------|
| P250041-01 | LG9   | Lay-In Gable | 1   | 1   | Job Reference (optional) | 171039466 |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 28 08:55:55 ID:K34fr9Kk9C9?8rL0BFWY86zv80H-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

DEVELOPMENT SERVICES LEE'S'SUMMIT'S MISSOURI 02/04/2025 11:09:50

TION IEW

January 29,2025



| Scale = 1:53.1 | cale = 1:53.1 |
|----------------|---------------|
|----------------|---------------|

#### Plate Offsets (X, Y): [5:0-1-4,Edge], [9:0-1-4,Edge], [21:0-2-8,0-3-0]

| 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  |   | TC  | 0.09  | Vert(LL)  | n/a  | -   | n/a  | 999  | MT20   | 244/190   |
| TCDL   |  | 10.0   | Lumber DOL  | 1.15  |   | BC  | 0.05  | Vert(TL)  | n/a  | -   | n/a  | 999  |  |   |
| BCLL   |  | 0.0  | Rep Stress Incr   | YES   |   | WB  | 0.24  | Horiz(TL)   | 0.01   | 13  | n/a  | n/a  |  |   |
| BCDL   |  | 10.0   | Code  | IRC2018   | 3/TPI2014   | Matrix-S  |   |   |  |   |  |  | Weight: 100 lb   | FT = 20%  |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>OTHERS<br>BRACING<br>TOP CHORD | 2x4 SP N<br>2x4 SP N<br>2x3 SPF<br>Structura<br>6-0-0 oc<br>2-0-0 oc                 | lo.2<br>lo.2<br>No.2<br>I wood shea<br>purlins, exc<br>purlins (6-0  | athing directly applied<br>ept<br>-0 max.): 5-9.  | BC  | T CHORD 1   | -22=-172/253, 20-2<br>9-20=-170/251, 18<br>7-18=-170/251, 16<br>5-16=-169/251, 14<br>3-14=-166/248<br>2-22=-180/166, 3-21<br>4-20=-172/164, 6-15<br>8-17=-116/33, 10-16   | 22=-174<br>-19=-1<br>-17=-1<br>-15=-1<br> =-256/<br>9=-118/<br>6=-169/  | 4/254,<br>70/251,<br>70/251,<br>68/250,<br>/236,<br>/58, 7-18=-15<br>/156,  | 1/80,  | 10) Pro<br>bea<br>join<br>210<br>upli<br>17,<br>149<br>11) This | vide me<br>ring plat<br>t 1, 149<br>I b uplift<br>ft at join<br>132 lb u<br>I b uplift<br>s truss is | chanic<br>te capa<br>Ib uplif<br>at join<br>t 19, 56<br>plift at<br>at join<br>s desig | al connection (by<br>ble of withstandi<br>t at joint 13, 152<br>t 21, 139 lb uplift<br>3 lb uplift at joint 1<br>joint 16, 207 lb u<br>t 14.<br>ned in accordanc | others) of truss to<br>ng 181 lb uplift at<br>lb uplift at joint 22,<br>at joint 20, 34 lb<br>18, 9 lb uplift at joint<br>plift at joint 15 and<br>we with the 2018 |
| BOT CHORD  | Rigid ceil<br>bracing.   | ing directly   | applied or 10-0-0 oc  | NC  | TES   | 1-15=-249/232, 12   | -14=-1  | 79/165  |  | Inte<br>R80   | rnationa<br>)2.10.2 a  | al Resid   | lential Code sect<br>erenced standard  | ions R502.11.1 and<br>ANSI/TPI 1.   |
| REACTIONS  | (size)<br>Max Horiz<br>Max Uplift<br>Max Grav  | 1=18-2-0,<br>15=18-2-0<br>18=18-2-0<br>21=18-2-0<br>1=-240 (L1<br>14=-149 (l<br>16=-132 (l<br>18=-56 (L1<br>20=-139 (l<br>22=-152 (l<br>1=340 (LC<br>14=187 (L<br>16=204 (L<br>18=191 (L<br>20=213 (L<br>20=213 (L<br>20=213 (L) | 13=18-2-0, 14=18-2-<br>0, 16=18-2-0, 17=18-2-<br>0, 19=18-2-0, 20=18-2-<br>0, 22=18-2-0<br>C 8)<br>C 10), 13=-149 (LC 1<br>LC 13), 15=-207 (LC<br>LC 13), 17=-9 (LC 8)<br>C 8), 19=-34 (LC 9),<br>LC 12), 21=-210 (LC<br>LC 12)<br>C 12), 13=314 (LC 13)<br>C 20), 15=241 (LC 2)<br>C 20), 17=156 (LC 2)<br>C 25), 19=158 (LC 2)<br>C 19), 21=244 (LC 1)<br>C 19) | .0, 1)<br>2-0, 2)<br>1), 2), 1), 13), .<br>, 12), 3), 6), 6), 6), 6), 6), 6), 6), 6), 6), 6 | Unbalanced<br>this design.<br>Wind: ASCE<br>Vasd=91mph<br>Ke=1.00; Car<br>exterior zone<br>Interior (1) 5-<br>zone; cantile<br>and right exp<br>MWFRS for r<br>grip DOL=1.6<br>Truss design<br>only. For stu<br>see Standard<br>or consult qu<br>Provide adec<br>All plates are | roof live loads have<br>7-16; Vult=115mph<br>; TCDL=6.0psf; BC<br>11; Exp C; Enclose<br>and C-C Exterior(2<br>1-1 to 6-4-5, Exterior<br>ver left and right ext<br>osed;C-C for memt<br>eactions shown; LL<br>0<br>ed for wind loads in<br>ds exposed to wind<br>I Industry Gable En<br>alified building desi<br>juate drainage to pr<br>1.5x4 MT20 unless | been of<br>(3-sec<br>DL=6.0<br>d; MW<br>2E) 0-3<br>or(2E)<br>posed<br>opers an<br>imber I<br>the pla<br>(norm<br>d Deta<br>gner as<br>event of<br>s other | considered for<br>cond gust)<br>Dpsf; h=35ft;<br>FRS (envelop<br>-9 to 5-1-1,<br>6-4-5 to 17-10;<br>end vertical<br>JODL=1.60 pla<br>ane of the trus<br>al to the face)<br>ils as applicat<br>is per ANSI/TF<br>water ponding<br>wise indicated | r<br>D-14<br>left<br>te<br>SS<br>),<br>Dle,<br>PI 1.<br>J. | 12) Gra<br>or ti<br>bott  | iphical p<br>he orien<br>com choi<br>CASE(S  | urlin re<br>tation o<br>rd.<br>) Star  | presentation doe<br>of the purlin along<br>ndard   | is not depict the size of the top and/or  |
| F <b>ORCES</b><br>TOP CHORD  | (Ib) - Max<br>Tension<br>1-2=-428,<br>4-5=-134,<br>7-8=-108,<br>10-11=-1<br>12-13=-3 | ximum Com<br>/285, 2-3=-2<br>/114, 5-6=-<br>/103, 8-9=-<br>26/65, 11-1<br>96/275   | pression/Maximum<br>290/189, 3-4=-154/10<br>108/103, 6-7=-108/10<br>108/103, 9-10=-134/1<br>2=-259/166,   | 6)<br>7)<br><sub>03,</sub> 8)<br>)3,<br>112,9)  | Gable requirr<br>Gable studs :<br>This truss ha<br>chord live loa<br>All bearings a<br>capacity of 5  | es continuous botto<br>spaced at 0-0-0 oc.<br>s been designed fo<br>d nonconcurrent w<br>are assumed to be<br>65 psi.   | m chor<br>r a 10.(<br>ith any<br>SP No.   | d bearing.<br>0 psf bottom<br>other live load<br>2 crushing   | ds.  |   | لر   |  | SCOTT<br>SEVI<br>NUMI<br>PE-20010<br>PE-20010  | T M.<br>ER<br>018807  |

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 | Roof - HM Lot 200        |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P250041-01 | V1    | Valley     | 1   | 1   | Job Reference (optional) | 171039467 |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 28 08:55:55 ID:JQXnBLyXAxV04cePhiuF2Rzb?7O-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



15-5-7





15-5-7

Scale = 1:31.1

|  |   |   |   |                                      |  |   |   |   |                          |                      |                             |                          |                                 |                                    | _ |
|--|---|---|---|--------------------------------------|--|---|---|---|--------------------------|----------------------|-----------------------------|--------------------------|---------------------------------|------------------------------------|---|
| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL<br>LUMBER<br>TOP CHORD                                      | 2x4 SP No.2   | (psf)<br>25.0<br>10.0<br>0.0<br>10.0  | <b>Spacing</b><br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code   | 2-0-0<br>1.15<br>1.15<br>YES<br>IRC2 | 018/TPI2014<br>4) Gable requir<br>5) Gable studs   | CSI<br>TC<br>BC<br>WB<br>Matrix-S<br>es continuous bc<br>spaced at 4-0-0  | 0.22<br>0.11<br>0.06  | DEFL<br>Vert(LL)<br>Vert(TL)<br>Horiz(TL)<br>d bearing.   | in<br>n/a<br>0.00        | (loc)<br>-<br>-<br>5 | l/defl<br>n/a<br>n/a<br>n/a | L/d<br>999<br>999<br>n/a | PLATES<br>MT20<br>Weight: 49 lb | <b>GRIP</b><br>244/190<br>FT = 20% |   |
| BOT CHORD<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD   | 2x4 SP No.2<br>2x3 SPF No.<br>Structural wo<br>6-0-0 oc purl<br>Rigid ceiling<br>bracing          | 2<br>ood shea<br>lins.<br>directly a  | athing directly applie<br>applied or 10-0-0 oc  | ed or                                | <ol> <li>This truss has<br/>chord live los<br/>of All bearings<br/>capacity of 5</li> <li>Provide mec<br/>bearing plate<br/>1, 10 lb uplifi</li> </ol> | as been designed<br>ad nonconcurren<br>are assumed to b<br>65 psi.<br>hanical connection<br>capable of with<br>t at joint 5, 120 lb | t for a 10.0<br>t with any<br>pe SP No.<br>on (by oth<br>standing 1<br>o uplift at jo | ) pst bottom<br>other live loa<br>2 crushing<br>ers) of truss t<br>2 lb uplift at j<br>bint 8 and 120 | ds.<br>o<br>oint<br>0 lb |                      |                             |                          |                                 |                                    |   |
| REACTIONS  | (size) 1=<br>7=<br>Max Horiz 1=<br>Max Uplift 1=<br>6=<br>Max Grav 1=<br>(L<br>25                 | =15-5-7,<br>=15-5-7,<br>=-55 (LC<br>=-12 (LC<br>=-120 (LC<br>=106 (LC<br>.C 26), 7:<br>5) | 5=15-5-7, 6=15-5-7,<br>8=15-5-7<br>17)<br>13), 5=-10 (LC 13),<br>2 13), 8=-120 (LC 12,<br>1), 5=106 (LC 1), 6<br>=315 (LC 1), 8=376 | ,<br>2)<br>5=376<br>(LC              | uplift at joint<br>9) This truss is<br>International<br>R802.10.2 a<br>LOAD CASE(S)  | 6.<br>designed in acco<br>Residential Cod<br>nd referenced sta<br>Standard  | ordance w<br>e sections<br>andard AN  | th the 2018<br>R502.11.1 a<br>SI/TPI 1.   | ind                      |                      |                             |                          |                                 |                                    |   |
|  | (lb) - Maximu<br>Tension  |   | pression/Maximum  |                                      |  |   |   |   |                          |                      |                             |                          |                                 |                                    |   |
| BOT CHORD<br>WEBS  | 1-2=-71/46,2<br>4-5=-53/35<br>1-8=-4/43, 7-<br>3-7=-235/87,                                       | 2-3=-87/<br>-8=-4/43<br>, 2-8=-29   | 104, 3-4=-87/98,<br>, 6-7=-4/43, 5-6=-4/4<br>)5/222, 4-6=-295/22;   | 43<br>2                              |  |   |   |   |                          |                      |                             |                          |                                 |                                    |   |
| NOTES  |   |   |   |                                      |  |   |   |   |                          |                      |                             |                          |                                 | The second second                  |   |
| <ol> <li>Unbalance<br/>this design</li> <li>Wind: ASC<br/>Vasd=91n<br/>Ke=1.00;<br/>exterior zo</li> </ol> | ed roof live load<br>n.<br>CE 7-16; Vult=1<br>nph; TCDL=6.0<br>Cat. II; Exp C; I<br>one and C-C E | ds have  <br>115mph<br>)psf; BCI<br>Enclosed<br>xterior(21                                | (3-second gust)<br>DL=6.0psf; h=35ft;<br>d; MWFRS (envelop<br>E) 0-9-1 to 5-9-1,  | ve)                                  |  |   |   |   |                          |                      |                             |                          | STATE OF I                      | MISSOLAT                           |   |



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.

SSIONAL E January 29,2025 TION **IEW** DEVELOPMENT SERVICES

LEE'S'SUMMIT'SMISSOURI 02/04/2025 11:09:50

PE-2001018807

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 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 | Roof - HM Lot 200        |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P250041-01 | V2    | Valley     | 1   | 1   | Job Reference (optional) | 171039468 |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 28 08:55:55 ID:nc59Phy9xFetimDcEQPUbezb?7N-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

10-7-14

Page: 1



| Scale | _ | 1.26.7 |
|-------|---|--------|
| Scale | _ | 1.20.7 |

|  |   |  |  |  |  | -  |   |   |                          |                      |                             |                          |                                 |                                    |
|--|---|--|--|--|--|--|---|---|--------------------------|----------------------|-----------------------------|--------------------------|---------------------------------|------------------------------------|
| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL   |   | (psf)<br>25.0<br>10.0<br>0.0<br>10.0   | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code                         | 2-0-0<br>1.15<br>1.15<br>YES<br>IRC201 | 8/TPI2014  | CSI<br>TC<br>BC<br>WB<br>Matrix-S  | 0.35<br>0.21<br>0.06  | DEFL<br>Vert(LL)<br>Vert(TL)<br>Horiz(TL)   | in<br>n/a<br>n/a<br>0.00 | (loc)<br>-<br>-<br>3 | l/defl<br>n/a<br>n/a<br>n/a | L/d<br>999<br>999<br>n/a | PLATES<br>MT20<br>Weight: 32 lb | <b>GRIP</b><br>244/190<br>FT = 20% |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS | 2x4 SP N<br>2x4 SP N<br>2x3 SPF<br>Structura<br>6-0-0 oc  <br>Rigid ceil<br>bracing.<br>(size)<br>Max Horiz | o.2<br>o.2<br>No.2<br>I wood she<br>purlins.<br>ing directly<br>1=10-7-1-<br>1=37 (LC                | athing directly applie<br>applied or 10-0-0 oc<br>4, 3=10-7-14, 4=10-7<br>12)              | 7)<br>8)<br>ed or 9)<br>c L(<br>7-14   | All bearings<br>capacity of 5<br>Provide mec<br>bearing plate<br>1, 52 lb uplift<br>This truss is<br>International<br>R802.10.2 ai | are assumed to b<br>65 psi.<br>hanical connectio<br>capable of withs<br>at joint 3 and 40<br>designed in acco<br>Residential Code<br>nd referenced sta<br>Standard | be SP No.<br>on (by oth<br>standing 4<br>I b uplift a<br>ordance w<br>e sections<br>andard AN | 2 crushing<br>ers) of truss t<br>15 lb uplift at j<br>it joint 4.<br>ith the 2018<br>is R502.11.1 a<br>ISI/TPI 1. | o<br>bint<br>nd          |                      |                             |                          |                                 |                                    |
| FORCES<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>NOTES  | Max Uplift<br>Max Grav<br>(lb) - Max<br>Tension<br>1-2=-98/6<br>1-4=-2/40<br>2-4=-318/                      | 1=-45 (LC<br>4=-40 (LC<br>1=191 (LC<br>4=458 (LC<br>imum Corr<br>51, 2-3=-98<br>0, 3-4=-2/40<br>/225 | 2 12), 3=-52 (LC 13),<br>2 12)<br>2 25), 3=191 (LC 26)<br>2 1)<br>npression/Maximum<br>/66 | ),                                     |  |  |   |   |                          |                      |                             |                          |                                 |                                    |
| 1) Unbalance   | ed roof live l  | oads have  | been considered for  | r                                      |  |  |   |   |                          |                      |                             |                          |                                 |                                    |

- this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



January 29,2025





| Job        | Truss | Truss Type | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P250041-01 | V3    | Valley     | 1   | 1   | Job Reference (optional) | 171039469 |

2-11-2

2-11-2

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

#### Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 28 08:55:55 ID:nc59Phy9xFetimDcEQPUbezb?7N-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

5-1-14

2-2-12

5-10-4

0-8-6



**IEW** 

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.





5-10-4

Scale = 1:21.2

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

| Plate Offsets (X   | , r): [2:0-2-0,Edge]  |  |  |  |  |   |                          |                      |                             |                          |                                 |  |
|--|---|--|--|--|--|---|--------------------------|----------------------|-----------------------------|--------------------------|---------------------------------|--|
| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL   | (psf)<br>25.0<br>10.0<br>0.0<br>10.0  | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code   | 2-0-0<br>1.15<br>1.15<br>YES<br>IRC2018/TPI20  | CSI<br>TC<br>BC<br>WB<br>14 Matrix-P   | 0.13<br>0.25<br>0.00   | <b>DEFL</b><br>Vert(LL)<br>Vert(TL)<br>Horiz(TL)                                    | in<br>n/a<br>n/a<br>0.00 | (loc)<br>-<br>-<br>3 | l/defl<br>n/a<br>n/a<br>n/a | L/d<br>999<br>999<br>n/a | PLATES<br>MT20<br>Weight: 16 lb | <b>GRIP</b><br>244/190<br>FT = 20%           |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>BOT CHORD<br>REACTIONS (<br>N<br>FORCES<br>TOP CHORD<br>BOT CHORD<br>BOT CHORD<br>BOT CHORD<br>NOTES<br>1) Unbalanced<br>this design.<br>2) Wind: ASCE<br>Vasd=91mp<br>Ke=1.00; C:<br>exterior 200<br>NOTES<br>1) Unbalanced<br>this design.<br>2) Wind: ASCE<br>Vasd=91mp<br>Ke=1.00; C:<br>exterior 200<br>and right ex<br>exposed;C-<br>reactions sh<br>DOL=1.60<br>3) Truss desig<br>only. For st<br>see Standal<br>or consult q<br>4) Gable requi<br>5) Gable studs<br>6) This truss h<br>chord live lo<br>7) All bearings<br>capacity of st | 2x4 SP No.2<br>2x4 SP No.2<br>Structural wood she<br>5-11-7 oc purlins.<br>Rigid ceiling directly<br>bracing.<br>(size) 1=5-10-4<br>Max Horiz 1=18 (LC<br>Max Uplift 1=-31 (LC<br>Max Grav 1=200 (LI<br>(lb) - Maximum Con<br>Tension<br>1-2=-225/202, 2-3=-<br>1-3=-155/185<br>d roof live loads have<br>E 7-16; Vult=115mpt<br>bh; TCDL=6.0psf; BC<br>at. II; Exp C; Enclose<br>the and C-C Exterior(2<br>typosed ; end vertical<br>C for members and f<br>hown; Lumber DOL=<br>uned for wind loads in<br>tuds exposed to wind<br>rd Industry Gable En<br>uualified building desi<br>irres continuous botto<br>s spaced at 4-0-0 oc.<br>has been designed fo<br>bad nonconcurrent w<br>a re assumed to be<br>565 psi. | eathing directly applie<br>y applied or 10-0-0 oc<br>, 3=5-10-4<br>12)<br>2 12), 3=-31 (LC 13)<br>C 1), 3=200 (LC 1)<br>apression/Maximum<br>-225/210<br>e been considered for<br>a (3-second gust)<br>CDL=6.0psf; h=35ft;<br>ad; MWFRS (envelop<br>2E) zone; cantilever le<br>left and right<br>forces & MWFRS for<br>1.60 plate grip<br>a the plane of the truss<br>4 (normal to the face)<br>d Details as applicab<br>gner as per ANSI/TP<br>m chord bearing.<br>r a 10.0 psf bottom<br>ith any other live load<br>SP No.2 crushing | <ul> <li>8) Provi<br/>beari<br/>1 and<br/>9) This t<br/>Interr<br/>R802</li> <li>cond C/</li> <li>e) e)</li> <li>e)</li> <li>e)</li> <li>eft</li> <li>is</li> <li>is.</li> </ul> | de mechanical connectio<br>gplate capable of withs<br>31 lb uplift at joint 3.<br>russ is designed in accou<br>ational Residential Code<br>.10.2 and referenced sta<br>.SE(S) Standard | n (by oth<br>tanding 3<br>rdance wi<br>e sections<br>indard AN | ers) of truss t<br>i1 lb uplift at j<br>ith the 2018<br>i R502.11.1 a<br>ISI/TPI 1. | to<br>oint<br>and        |                      |                             |                          | STATE OF J                      | MISSOLUE<br>I M.<br>ER<br>018807<br>I ENGINA |
| Design vali  | NG - Verify design parame   | eters and READ NOTES O   | N THIS AND INCLUDE<br>s based only upon par  | D MITEK REFERENCE PAGE I<br>ameters shown, and is for an in  | MII-7473 rev   | 1. 1/2/2023 BEFC  | DRE USE.                 |                      |                             |                          |                                 |  |

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not
a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing
is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the
fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/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 | Roof - HM Lot 200        |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P250041-01 | V4    | Valley     | 1   | 1   | Job Reference (optional) | 171039470 |

4-6-3

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

#### Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 28 08:55:56 ID:64PQ00k\_3WCfCyjjcZrT1vywoqD-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

8-5-7



Page: 1

9-0-6





9-0-6

| Scale | e = 1 | :25.9 |
|-------|-------|-------|

| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL                                  | (psf)<br>25.0<br>10.0<br>0.0<br>10.0   | <b>Spacing</b><br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code                                      | 2-0-0<br>1.15<br>1.15<br>YES<br>IRC201 | 8/TPI2014  | CSI<br>TC<br>BC<br>WB<br>Matrix-S  | 0.25<br>0.15<br>0.05  | DEFL<br>Vert(LL)<br>Vert(TL)<br>Horiz(TL)   | in<br>n/a<br>n/a<br>0.00 | (loc)<br>-<br>-<br>3 | l/defl<br>n/a<br>n/a<br>n/a | L/d<br>999<br>999<br>n/a | PLATES<br>MT20<br>Weight: 28 lb | <b>GRIP</b><br>244/190<br>FT = 20% |
|---|--|--|--|--|--|---|---|--------------------------|----------------------|-----------------------------|--------------------------|---------------------------------|------------------------------------|
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD | 2x4 SP No.2<br>2x4 SP No.2<br>2x3 SPF No.2<br>Structural wood sh<br>6-0-0 oc purlins.<br>Rigid ceiling directh<br>bracing.                 | eathing directly applie<br>y applied or 10-0-0 o   | 7)<br>8)<br>ed or 9)<br>c LQ           | All bearings<br>capacity of 5<br>Provide mec<br>bearing plate<br>1, 46 lb uplift<br>This truss is<br>International<br>R802.10.2 ai | are assumed to<br>65 psi.<br>hanical connect<br>capable of with<br>a t joint 3 and 3<br>designed in acc<br>Residential Coo<br>nd referenced si<br>Standard | be SP No.<br>ion (by oth<br>nstanding 3<br>0 lb uplift a<br>cordance w<br>de sections<br>tandard AN | 2 crushing<br>ers) of truss<br>39 lb uplift at<br>it joint 4.<br>ith the 2018<br>\$ R502.11.1 a<br>ISI/TPI 1. | to<br>joint<br>and       |                      |                             |                          |                                 |                                    |
| REACTIONS   | (size) 1=9-0-6,<br>Max Horiz 1=37 (LC<br>Max Uplift 1=-39 (L<br>4=-30 (L<br>Max Grav 1=167 (L<br>4=375 (L<br>(lb) - Maximum Cor<br>Tension | 3=9-0-6, 4=9-0-6<br>C 16)<br>C 12), 3=-46 (LC 13)<br>C 12)<br>C 12), 3=167 (LC 26<br>C 1)<br>mpression/Maximum | ,<br>)),                               |  |  |   |   |                          |                      |                             |                          |                                 |                                    |

| TOP CHORD | 1-2=-102/66, 2-3=-102/74 |
|-----------|--------------------------|
| BOT CHORD | 1-4=-3/43, 3-4=-3/43     |
| WEBS      | 2-4=-256/193             |

#### NOTES

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 2) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 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. Gable requires continuous bottom chord bearing.
- 4)
- 5) Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom 6) chord live load nonconcurrent with any other live loads.

## OF MISSO SCOTT M. SEVIER NUMBER PE-2001018807 C SSIONAL E January 29,2025

 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 | Roof - HM Lot 200        |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P250041-01 | V5    | Valley     | 1   | 1   | Job Reference (optional) | 171039471 |

2-10-3

2-10-3

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

1-5-5

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 28 08:55:56 ID:64PQ00k\_3WCfCyjjcZrT1vywoqD-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

5-1-7

2-3-4

5-8-6

0-6-15



f





5-8-6

Scale = 1:22.6

| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL   | (psf)<br>25.0<br>10.0<br>0.0<br>10.0   | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code                                 | 2-0-0<br>1.15<br>1.15<br>YES<br>IRC201 | 8/TPI2014  | <b>CSI</b><br>TC<br>BC<br>WB<br>Matrix-P  | 0.11<br>0.05<br>0.03  | <b>DEFL</b><br>Vert(LL)<br>Vert(TL)<br>Horiz(TL)  | in<br>n/a<br>n/a<br>0.00 | (loc)<br>-<br>-<br>3 | l/defl<br>n/a<br>n/a<br>n/a | L/d<br>999<br>999<br>n/a | PLATES<br>MT20<br>Weight: 17 lb | <b>GRIP</b><br>244/190<br>FT = 20% |
|--|--|--|--|--|---|---|---|--------------------------|----------------------|-----------------------------|--------------------------|---------------------------------|------------------------------------|
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS | 2x4 SP No.2<br>2x4 SP No.2<br>2x3 SPF No.2<br>Structural wood she<br>5-9-6 oc purlins.<br>Rigid ceiling directly<br>bracing.<br>(size) 1=5-8-6, 3<br>Max Horiz 1=21 (LC<br>Max Uplift 1=-28 (LC<br>(LC 12) | athing directly applie<br>applied or 10-0-0 or<br>3=5-8-6, 4=5-8-6<br>16)<br>2 12), 3=-32 (LC 13), | 7)<br>8)<br>ed or 9)<br>c L(<br>, 4=-7 | All bearings<br>capacity of 5<br>Provide med<br>bearing plate<br>1, 32 lb uplif<br>This truss is<br>International<br>R802.10.2 a | are assumed to<br>565 psi.<br>chanical connect<br>e capable of wit<br>t at joint 3 and i<br>designed in ac<br>I Residential Cc<br>nd referenced s<br>Standard | b be SP No.<br>ttion (by oth<br>thstanding 2<br>7 lb uplift at<br>cordance w<br>ode sections<br>standard AN | 2 crushing<br>ers) of truss<br>8 lb uplift at<br>joint 4.<br>ith the 2018<br>is R502.11.1 a<br>ISI/TPI 1. | to<br>joint<br>and       |                      |                             |                          |                                 |                                    |
| FORCES<br>TOP CHORD<br>BOT CHORD   | (LC 1)<br>(Ib) - Maximum Compression/Maximum<br>Tension<br>D 1-2=-51/42, 2-3=-51/49<br>D 1-4=-1/23, 3-4=-1/23  |  |  |  |   |   |   |                          |                      |                             |                          |                                 |                                    |

BOT CHORD 1-4=-1/23, 3-4 WEBS 2-4=-138/126

#### 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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



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 MITeM® 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) RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVENDENT SERVICES LEE'S'SUMMIT'S MISSOURI 02/04/2025 11:09:51

| Job        | Truss | Truss Type | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P250041-01 | V6    | Valley     | 1   | 1   | Job Reference (optional) | 171039472 |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries. Inc. Tue Jan 28 08:55:56 ID:64PQ00k\_3WCfCyjjcZrT1vywoqD-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



| Scal | le – | 1.27 | 73 |
|------|------|------|----|

BRACING

TOP CHORD

BOT CHORD

REACTIONS (size)

bracing.

| Scale = 1:27.3                                     |  |                 | 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  | TC  | 0.25  | Vert(LL)   | n/a                | -     | n/a    | 999 | MT20          | 244/190  |  |
| TCDL   | 10.0   | Lumber DOL      | 1.15  | BC  | 0.13  | Vert(TL)   | n/a                | -     | n/a    | 999 |               |          |  |
| BCLL   | 0.0  | Rep Stress Incr | YES   | WB  | 0.07  | Horiz(TL)  | 0.00               | 4     | n/a    | n/a |               |          |  |
| BCDL   | 10.0   | Code            | IRC2018/TPI2014   | Matrix-P  |   |  |                    |       |        |     | Weight: 27 lb | FT = 20% |  |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS | 2x4 SP No.2<br>2x4 SP No.2<br>2x3 SPF No.2<br>2x3 SPF No.2 |                 | <ol> <li>Provide me<br/>bearing pla<br/>4 and 123 l</li> <li>This truss is<br/>International</li> </ol> | chanical connec<br>te capable of wi<br>b uplift at joint 5<br>s designed in ac<br>al Residential Co | ction (by oth<br>thstanding 2<br>cordance w<br>ode sections | ers) of truss t<br>8 lb uplift at j<br>ith the 2018<br>R502.11.1 a | to<br>joint<br>and |       |        |     |               |          |  |

7-11-15

R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

| Æ      | OF MIS     |
|--------|------------|
| E.S.   | e on ano   |
| 451    | SCOTT M.   |
| 8 * 15 | SEVIER     |
| A la   | # R        |
| N 20 P | E-20010188 |
| N. The |            |
| No     | Plan D     |

TM. TER 018807 ONAL January 29,2025



|   | Max Horiz   | 1=140 (LC 9)                      |  |  |  |  |
|---|-------------|-----------------------------------|--|--|--|--|
|   | Max Uplift  | 4=-28 (LC 12), 5=-123 (LC 12)     |  |  |  |  |
|   | Max Grav    | 1=103 (LC 1), 4=137 (LC 1), 5=406 |  |  |  |  |
|   |             | (LC 1)                            |  |  |  |  |
| ORCES   | (lb) - Max  | imum Compression/Maximum          |  |  |  |  |
|   | Tension     |                                   |  |  |  |  |
| TOP CHORD                                     | 1-2=-235/   | /140, 2-3=-104/79, 3-4=-107/120   |  |  |  |  |
| BOT CHORD                                     | 1-5=-62/6   | 67, 4-5=-62/67                    |  |  |  |  |
| VEBS  | 2-5=-316/   | /303                              |  |  |  |  |
| NOTES   |             |                                   |  |  |  |  |
| ) Wind: AS                                    | CE 7-16; Vu | It=115mph (3-second gust)         |  |  |  |  |
| Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; |             |                                   |  |  |  |  |
|   |             |                                   |  |  |  |  |

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

1=8-0-9, 4=8-0-9, 5=8-0-9

Rigid ceiling directly applied or 10-0-0 oc

- Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-9-1 to 5-9-1, Interior (1) 5-9-1 to 7-11-5 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 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)
- This truss has been designed for a 10.0 psf bottom 5)
- chord live load nonconcurrent with any other live loads. 6) All bearings are assumed to be SP No.2 crushing
- capacity of 565 psi.

 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.sbcscomponents.com)

| Job        | Truss | Truss Type | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P250041-01 | V7    | Valley     | 1   | 1   | Job Reference (optional) | 171039473 |

5-7-2

5-7-2

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

2-4-4

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 28 08:55:56 ID:64PQ00k\_3WCfCyjjcZrT1vywoqD-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



3x4 🚅



2-4-4

Scale = 1:22.4 \_

| Loading         (psf)           TCLL (roof)         25.0           TCDL         10.0           BCLL         0.0   | <b>Spacing</b><br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr   | 2-0-0<br>1.15<br>1.15<br>YES  | CSI<br>TC<br>BC<br>WB  | 0.52<br>0.28<br>0.00                 | DEFL<br>Vert(LL)<br>Vert(TL)<br>Horiz(TL) | in<br>n/a<br>n/a<br>0.00 | (loc)<br>-<br>-<br>3 | l/defl<br>n/a<br>n/a<br>n/a | L/d<br>999<br>999<br>n/a | PLATES<br>MT20                              | <b>GRIP</b><br>244/190                        |
|---|---|---|--|--------------------------------------|---|--------------------------|----------------------|-----------------------------|--------------------------|---|---|
| BCDL     10.0       LUMBER     TOP CHORD     2x4 SP No.2       BOT CHORD     2x4 SP No.2       WEBS     2x3 SPF No.2       BRACING     TOP CHORD     Structural wood sheat 5-7-12 oc purlins, etc.       BOT CHORD     Rigid ceiling directly bracing.       REACTIONS     (size)     1=5-7-12, Max Horiz       TOP CHORD     Structural =194 (LC Max Uplift       TOR CHORD     (lb) - Maximum Com Tension   | Code<br>athing directly applie<br>xcept end verticals.<br>applied or 10-0-0 or<br>3=5-7-12<br>9)<br>5 12), 3=-56 (LC 12)<br>C 1), 3=215 (LC 1)<br>apression/Maximum   | IRC2018/TPI2014<br>8) This truss is<br>Internationa<br>R802.10.2 a<br>LOAD CASE(S)<br>ed or                                       | Matrix-P<br>designed in accou<br>Residential Code<br>nd referenced sta<br>Standard | rdance wi<br>e sections<br>indard AN | th the 2018<br>R502.11.1 a<br>SI/TPI 1.   | and                      |                      |                             |                          | Weight: 18 lb                               | FT = 20%                                      |
| <ul> <li>NOT CHORD 1-2=-12/1/02, 2-3=-11</li> <li>BOT CHORD 1-3=-41/45</li> <li>NOTES</li> <li>1) Wind: ASCE 7-16; Vult=115mph<br/>Vasd=91mph; TCDL=6.0psf; BCI<br/>Ke=1.00; Cat. II; Exp C; Enclose<br/>exterior zone and C-C Exterior(2<br/>and right exposed; end vertical I<br/>exposed; C-C for members and for<br/>reactions shown; Lumber DOL=1<br/>DOL=1.60</li> <li>2) Truss designed for wind loads in<br/>only. For studs exposed to wind<br/>see Standard Industry Gable End<br/>or consult qualified building desig</li> <li>3) Gable requires continuous bottor<br/>(1) Gable studs spaced at 4-0-0 oc.</li> <li>5) This truss has been designed for<br/>chord live load nonconcurrent with</li> <li>6) All bearings are assumed to be S<br/>capacity of 565 psi.</li> <li>7) Provide mechanical connection (<br/>bearing plate capable of withstar<br/>1 and 56 lb uplift at joint 3.</li> </ul> | (3-second gust)<br>DL=6.0psf; h=35ft;<br>d; MWFRS (envelop<br>E) zone; cantilever l<br>eff and right<br>orces & MWFRS for<br>1.60 plate grip<br>the plane of the trus<br>(normal to the face)<br>d Details as applicat<br>gner as per ANSI/TF<br>m chord bearing.<br>r a 10.0 psf bottom<br>th any other live load<br>SP No.2 crushing<br>(by others) of truss to<br>daing 38 lb uplift at jo | be)<br>eft<br>ss<br>ble,<br>ble,<br>ble,<br>ble,<br>ble,<br>so<br>le,<br>le,<br>le,<br>le,<br>ble,<br>ble,<br>ble,<br>ble,<br>ble |  |                                      |   |                          |                      |                             |                          | STATE OF J<br>SCOT<br>SEV<br>NUM<br>PE-2001 | MISSOLUT<br>T.M.<br>IER<br>BERCULER<br>018807 |

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| Job        | Truss | Truss Type | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P250041-01 | V8    | Valley     | 1   | 1   | Job Reference (optional) | 171039474 |

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**TRUCTION IEW** 

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| Scale | _ | 1.1 | 8 | 5 |  |
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| Scale = 1.16.5  |  |   |  |   |                      |   |                          |                      |                             |                          |                |  |  |
|---|--|---|--|---|----------------------|---|--------------------------|----------------------|-----------------------------|--------------------------|----------------|--|--|
| Loading<br>FCLL (roof)<br>FCDL<br>BCLL  | (psf)<br>25.0<br>10.0<br>0.0   | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr  | 2-0-0<br>1.15<br>1.15<br>YES   | CSI<br>TC 0<br>BC 0<br>WB 0                                     | ).12<br>).06<br>).00 | DEFL<br>Vert(LL)<br>Vert(TL)<br>Horiz(TL) | in<br>n/a<br>n/a<br>0.00 | (loc)<br>-<br>-<br>3 | l/defl<br>n/a<br>n/a<br>n/a | L/d<br>999<br>999<br>n/a | PLATES<br>MT20 | <b>GRIP</b><br>244/190                       |  |
| BCDL  | 10.0   | Code  | IRC2018/1P12014  | Matrix-P  |                      |   |                          |                      |                             |                          | weight: 9 lb   | FT = 20%                                     |  |
| JUMBER FOP CHORD GOT CHOR | 2x4 SP No.2<br>2x4 SP No.2<br>2x3 SPF No.2<br>2x3 SPF No.2<br>Structural wood she:<br>3-2-15 oc purlins, e:<br>Rigid ceiling directly<br>bracing.<br>(size) 1=3-2-15,<br>Max Horiz 1=47 (LC<br>Max Uplift 1=-19 (LC<br>Max Uplift 1=-19 (LC<br>(Ib) - Maximum Com<br>Tension<br>1-2=-62/42, 2-3=-84,<br>1-3=-21/22<br>2 F 7-16; Vult=115mph<br>nph; TCDL=6.0psf; BC<br>Cat. II; Exp C; Enclose<br>ne and C-C Exterior(2<br>xxposed ; end vertical I<br>schown; Lumber DOL=1<br>gned for wind loads in<br>studs exposed to wind<br>ard Industry Gable End<br>qualified building design<br>ires continuous bottor<br>ds spaced at 4-0-0 oc.<br>has been designed for<br>load nonconcurrent wi<br>is are assumed to be S<br>f 565 psi.<br>echanical connection (<br>ate capable of withstar<br>o uplift at joint 3. | athing directly applie<br>xcept end verticals.<br>applied or 10-0-0 oc<br>3=3-2-15<br>9)<br>(3-second gust)<br>DL=6.0psf; h=35ft;<br>d; MWFRS (envelop<br>E) zone; cantilever le<br>left and right<br>orcces & MWFRS for<br>1.60 plate grip<br>the plane of the trus<br>(normal to the face),<br>d Details as applicab<br>gner as per ANSI/TP<br>m chord bearing.<br>r a 10.0 psf bottom<br>th any other live load<br>SP No.2 crushing<br>(by others) of truss to<br>nding 19 lb uplift at jo | e)<br>e)<br>e)<br>ft<br>s<br>international<br>R802.10.2 a<br>LOAD CASE(S)<br>d or<br>e)<br>ft<br>s<br>i.e,<br>i.1. | International Action of the second referenced standard Standard | rd AN                | th the 2018<br>R502.11.1 ar<br>SI/TPI 1.  | nd                       |                      |                             |                          | VVeignt: 9 10  | MISSOLUE<br>TM.<br>IER<br>BERROTAN<br>018807 |  |
|   |  |   |  |   |                      |   |                          |                      |                             |                          | Januar         | y 29,2025                                    |  |
|   |  |   |  |   |                      |   |                          |                      |                             |                          |                |  |  |

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| Job        | Truss | Truss Type | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P250041-01 | V9    | Valley     | 1   | 1   | Job Reference (optional) | 171039475 |

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| Loading<br>TCLL (roof)<br>TCDL<br>3CLL<br>3CDL   | (psf)<br>25.0<br>10.0<br>0.0<br>10.0  | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code  | 2-0-0<br>1.15<br>1.15<br>YES<br>IRC2018/TPI2014  | CSI<br>TC<br>BC<br>WB<br>Matrix-P  | 0.73<br>0.40<br>0.00 | DEFL<br>Vert(LL)<br>Vert(TL)<br>Horiz(TL) | in<br>n/a<br>n/a<br>0.00 | (loc)<br>-<br>-<br>3 | l/defl<br>n/a<br>n/a<br>n/a | L/d<br>999<br>999<br>n/a | PLATES<br>MT20<br>Weight: 20 lb  | <b>GRIP</b><br>244/190<br>FT = 20%               |
|--|---|---|--|--|----------------------|---|--------------------------|----------------------|-----------------------------|--------------------------|--|--|
| LUMBER<br>TOP CHORD<br>30T CHORD | 2x4 SP No.2<br>2x3 SPF No.2<br>2x3 SPF No.2<br>Structural wood she<br>6-0-0 oc purlins, ex<br>Rigid ceiling directly<br>bracing.<br>(size) 1=6-5-6, 3<br>Max Horiz 1=109 (LC<br>Max Uplift 1=-44 (LC<br>Max Uplift 1=-44 (LC<br>Max Grav 1=251 (LC<br>(lb) - Maximum Com<br>Tension<br>1-2=-139/95, 2-3=-1<br>1-3=-48/52<br>CE 7-16; Vult=115mph<br>ph; TCDL=6.0psf; BC<br>Cat. II; Exp C; Enclose<br>one and C-C Exterior(2<br>5-9-1 to 6-4-2 zone; c<br>end vertical left and rig<br>and forces & MWFRS<br>OL=1.60 plate grip DC<br>igned for wind loads in<br>studs exposed to wind<br>studs exposed | athing directly applied<br>cept end verticals.<br>applied or 10-0-0 oc<br>3=6-5-6<br>C 9)<br>C 12), 3=-66 (LC 12)<br>C 1), 3=251 (LC 1)<br>apression/Maximum<br>96/218<br>(G3-second gust)<br>CDL=6.0psf; h=35ft;<br>d; MWFRS (envelope<br>2E) 0-9-1 to 5-9-1,<br>cantilever left and righ<br>ght exposed;C-C for<br>for reactions shown;<br>DL=1.60<br>the plane of the trus:<br>I (normal to the face),<br>d Details as applicabl<br>gner as per ANSI/TPI<br>m chord bearing.<br>r a 10.0 psf bottom<br>thany other live load<br>SP No.2 crushing<br>(by others) of truss to<br>noning 44 lb uplift at jo | <ul> <li>a) This truss is International R802.10.2 at LOAD CASE(S)</li> <li>b) d or</li> <li>a) at the second secon</li></ul> | designed in accorda<br>Residential Code s<br>nd referenced stand<br>Standard | ance wi              | th the 2018<br>R502.11.1 a<br>ISI/TPI 1.  | nd                       |                      |                             |                          | STATE OF M<br>STATE OF M<br>SCOTT<br>SEVI<br>PE-20010<br>PE-20010<br>PE-20010<br>A January | MISSOLUE<br>MISSOLUE<br>ER<br>Server<br>L ENGINE |
|  |   |   |  |  |                      |   |                          |                      |                             |                          | ,  |  |

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| Job        | Truss | Truss Type | Qty | Ply | Roof - HM Lot 200        |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P250041-01 | V10   | Valley     | 1   | 1   | Job Reference (optional) | 171039476 |

3-11-15

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

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|---------|--|
|         |  |

| 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       | 0.22 | Vert(LL)  | n/a  | -     | n/a    | 999 | MT20          | 244/190  |  |
| TCDL        | 10.0  | Lumber DOL      | 1.15            | BC       | 0.12 | 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 = 20% |  |
|             |       |                 |                 |          |      |           |      |       |        |     |               |          |  |

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

LOAD CASE(S) Standard

#### LUMBER

| LUMBER    |                          |  |
|-----------|--------------------------|--|
| TOP CHORD | 2x4 SP N                 | 0.2  |
| BOT CHORD | 2x4 SP N                 | 0.2  |
| WEBS      | 2x3 SPF I                | No.2   |
| BRACING   |                          |  |
| TOP CHORD | Structural<br>4-0-9 oc r | wood sheathing directly applied or<br>purlins. except end verticals. |
| BOT CHORD | Rigid ceili<br>bracing.  | ng directly applied or 10-0-0 oc                                     |
| REACTIONS | (size)                   | 1=4-0-9, 3=4-0-9   |
|           | Max Horiz                | 1=63 (LC 9)  |
|           | Max Uplift               | 1=-25 (LC 12), 3=-38 (LC 12)   |
|           | Max Grav                 | 1=143 (LC 1), 3=143 (LC 1)   |

## FORCES

|           | Tension                  |
|-----------|--------------------------|
| TOP CHORD | 1-2=-82/55, 2-3=-112/132 |
| BOT CHORD | 1-3=-28/30               |
|           |                          |

#### NOTES

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

(lb) - Maximum Compression/Maximum

- 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.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 4-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.6) All bearings are assumed to be SP No.2 crushing

capacity of 565 psi.7) Provide mechanical connection (by others) of truss t

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 1 and 38 lb uplift at joint 3.

# SCOTT M. SEVIER NUMBER PE-2001018807

January 29,2025







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

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02/04/2025