

| RE: B240067 - Lot 166 HT<br><b>Site Information:</b><br>Project Customer: Summit Homes Project Name:<br>Lot/Block: 166 Subdivision: Hawt<br>Model: Somerset - Tuscan<br>Address: 1632 SW Buckthorn Dr<br>Citate MO  | MiTek, Inc.<br>16023 Swingley Ridge Rd.<br>Chesterfield, MO 63017<br>314.434.1200 |  |  |  |  |  |  |  |  |  |  |  |
|---|---|--|--|--|--|--|--|--|--|--|--|--|
| City: Lee's Summit State: MO<br>General Truss Engineering Criteria & Design Loads (Individ  | ual Truss Design  |  |  |  |  |  |  |  |  |  |  |  |
| Drawings Show Special Loading Conditions):Design Code:IRC2018/TPI2014Wind Code:ASCE 7-16 [IWind Right]ed:Roof Load:45.0 psfDesign Program:MiTek 20/20 8.7Design Method:MWFRS (Envelope) ASCE 7-16 [Low Rise]Floor Load:N/A psf  |   |  |  |  |  |  |  |  |  |  |  |  |
| Mean Roof Height (feet): 25Exposure Category: C   |   |  |  |  |  |  |  |  |  |  |  |  |
| No.Seal#Truss NameDateNo.Seal#Truss1 $164780418$ A1 $4/10/24$ $35$ $164780452$ $V13$ 2 $164780420$ A3 $4/10/24$ $36$ $164780453$ $V14$ 3 $164780421$ A4 $4/10/24$ $38$ $164780455$ $V16$ 5 $164780422$ A5 $4/10/24$ $39$ $164780455$ $V16$ 6 $164780423$ A6 $4/10/24$ $40$ $164780457$ $V18$ 7 $164780425$ A8 $4/10/24$ $41$ $164780457$ $V18$ 8 $164780426$ A9 $4/10/24$ $41$ $164780458$ $V19$ 9 $164780427$ A10 $4/10/24$ $41$ $164780458$ $V19$ 1 $164780428$ B1 $4/10/24$ $41$ $164780458$ $V19$ 1 $164780431$ B4 $4/10/24$ $41$ $164780432$ $85$ $4/10/24$ 13 $164780433$ B6 $4/10/24$ $41$ $164780437$ $12$ $4/10/24$ 14 $164780438$ D3 $4/10/24$ $41$ $164780438$ $12$ $4/10/24$ 16 $164780438$ D3 $4/10/24$ $410/24$ $41$ $164780443$ $410/24$ 16 $164780443$ V1 $4/10/24$ $410/24$ $410/24$ $410/24$ 16 $164780443$ V1 $4/10/24$ $410/24$ 16 $164780443$ V2 $4/10/24$ 16 $164780444$ V5 $4/10/24$ 16< | Name Date<br>4/10/24<br>4/10/24<br>4/10/24<br>4/10/24<br>4/10/24<br>4/10/24       |  |  |  |  |  |  |  |  |  |  |  |
| The truss drawing(s) referenced above have been prepared by<br>MiTek USA, Inc. under my direct supervision based on the parameter<br>provided by Wheeler Wayerly  | TS OF MIC   |  |  |  |  |  |  |  |  |  |  |  |

provided by Wheeler - Waverly.

Truss Design Engineer's Name: Sevier, Scott

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

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



1 of 1

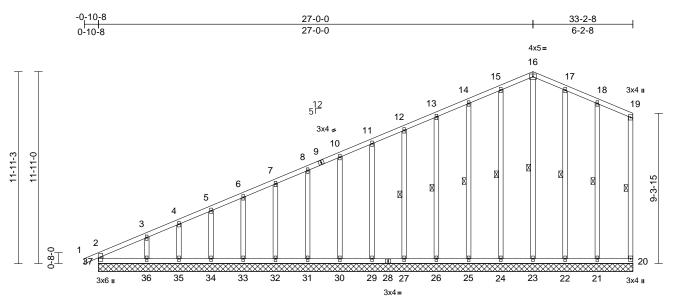
April 10,2024

| Job     | Truss | Truss Type             | e Qty Ply Lot 166 HT |   | Lot 166 HT               |           |
|---------|-------|------------------------|----------------------|---|--------------------------|-----------|
| B240067 | A1    | Common Supported Gable | 2                    | 1 | Job Reference (optional) | l64780418 |

Scale - 1.71.6

#### Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. Tue Apr 09 09:18:01 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



| 2 | 2 | $\mathbf{c}$ | 0 |
|---|---|--------------|---|
|   |   |              |   |

| Scale = 1:71.6  |  |  |   |   |  |  |                                     |  |   |  |   |  |
|---|--|--|---|---|--|--|-------------------------------------|--|---|--|---|--|
| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL  | (psf)<br>25.0<br>10.0<br>0.0<br>10.0   | Plate Grip DOL<br>Lumber DOL<br>* Rep Stress Incr  | 2-0-0<br>1.15<br>1.15<br>YES<br>IRC2018/TPI201  | CSI<br>TC<br>BC<br>WB<br>4 Matrix-R   | 0.39<br>0.16<br>0.14   | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)   | in<br>n/a<br>n/a<br>-0.01           | (loc)<br>-<br>-<br>20  | 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: 208 lb  | <b>GRIP</b><br>197/144<br>FT = 10%   |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>WEBS | 6-0-0 oc purlins,  | heathing directly applie<br>except end verticals.<br>tly applied or 10-0-0 oc<br>19-20, 16-23, 15-24<br>14-25, 13-26, 12-27<br>17-22, 18-21  | BOT CHOP  | 3-4=-279/35, 4-5=<br>6-7=-216/28, 7-8=<br>10-11=-174/39, 11<br>12-13=-147/92, 13<br>14-15=-120/146, 1<br>16-17=-104/171, 1<br>18-19=-163/140, 1<br>RD 36-37=-130/98, 35<br>34-35=-130/98, 31<br>30-31=-130/98, 25<br>27-29=-130/98, 26                | -262/35,<br>-202/27,<br>-12=-16<br>-14=-13<br>5-16=-1<br>7-18=-1<br>9-20=-1<br>-36=-13<br>-34=-13<br>-32=-13<br>0-30=-13<br>0-27=-13   | 5-6=-237/31,<br>8-10=-188/27<br>1/65,<br>3/118,<br>05/170,<br>18/145,<br>24/106<br>3/98,<br>0/98,<br>0/98,<br>0/98,<br>0/98,   | 7,                                  | chc<br>9) * T<br>on<br>3-0<br>chc<br>10) All<br>11) Prc<br>bea<br>20,<br>upl<br>27,<br>upl | ord live lo<br>his truss<br>the botto<br>6-00 tall<br>ord and a<br>bearing<br>vide me<br>aring plat<br>18 lb up<br>ift at join<br>48 lb up<br>ift at join | bad no<br>has be<br>om che<br>by 2-0<br>any oth<br>are as<br>chanic<br>te capa<br>blift at j<br>t 25, 4<br>blift at j<br>t 31, 4 | een designed for<br>ord in all areas wh<br>00-00 wide will fit i<br>her members.<br>ssumed to be SP<br>cal connection (by<br>able of withstandi<br>oint 23, 44 lb upli<br>7 lb uplift at joint 2<br>oint 29, 48 lb upli<br>8 lb uplift at joint 3 | any other live loads.<br>a live load of 20.0psf<br>lere a rectangle<br>between the bottom<br>F No.2 .<br>others) of truss to<br>ng 43 lb uplift at joint<br>ft at joint 24, 51 lb<br>26, 48 lb uplift at joint<br>ft at joint 30, 48 lb<br>32, 46 lb uplift at joint |
|   | 23=33<br>26=33<br>30=33<br>33=33<br>36=33<br>36=33<br>36=33<br>Max Horiz 37=39<br>Max Uplift 20=-42<br>22=-56<br>24=-44<br>26=-47<br>29=-48<br>31=-48<br>31=-48<br>35=-11<br>Max Grav 20=88<br>22=18 | 2-8, $21=33-2-8$ , $22=33-2-8$ , $24=33-2-8$ , $25=33-2-8$ , $25=33-2-8$ , $22=33-2-8$ , $31=33-2-8$ , $32=33-2-8$ , $31=33-2-8$ , $35=33-2-8$ , $34=33-2-8$ , $35=33-2-8$ , $31=2-8$ , $37=33-2-8$<br>3 (LC 5)<br>4 (LC 4), $21=-45$ (LC 9),<br>5 (LC 9), $23=-18$ (LC 7),<br>6 (LC 8), $25=-51$ (LC 8),<br>7 (LC 8), $30=-48$ (LC 8),<br>7 (LC 8), $32=-48$ (LC 8),<br>8 (LC 8), $32=-48$ (LC 8),<br>9 (LC 8), $34=-57$ (LC 8),<br>9 (LC 8), $36=-148$ (LC 8),<br>10 (LC 8), $36=-148$ (LC 8),<br>10 (LC 8), $36=-148$ (LC 8),<br>10 (LC 16), $21=200$ (LC 22),<br>10 (LC 21), $25=179$ (LC 2),<br>10 (LC 21), $25=179$ (LC 2) | 2-28,<br>2-8,<br>2-8,<br>2-8,<br>2-8,<br>2-8,<br>2-8,<br>1) Unbala<br>this de<br>2) Wind: .<br>Vasd=<br>2), II; Exp<br>1), cantile<br>21), right ex           | AŠCE 7-16; Vult=115mp<br>91mph; TCDL=6.0psf; E<br>C; Enclosed; MWFRS (<br>ver left and right expose<br>xposed; Lumber DOL=1   | 2-23=-13<br>-21=-13<br>-24=-14<br>-26=-14<br>-29=-14<br>31=-140<br>4=-1437<br>-22=-14<br>ve been veloped<br>-CDL=6.<br>enveloped<br>-GCDL=6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>enveloped<br>-6.<br>envelo | 0/98,<br>0/98,<br>0/98,<br>0/71,<br>0/72,<br>72, 7-32=-144<br>8, 4-35=-126,<br>7/66,<br>considered for<br>considered for<br>consid | /46,<br>r<br>Cat.<br>ne;<br>d<br>60 | upi<br>joir<br>12) Thi<br>Inte<br>R8   | ift at join<br>it 21.<br>s truss is<br>ernationa  | t 36, 5<br>s desig<br>al Resid<br>and ref<br>) Sta   | 6 lb uplift at joint 2<br>gned in accordanc<br>dential Code sect<br>ferenced standard   | INSI/TPI 1.  |
| FORCES  | 29=18<br>31=18<br>33=17<br>35=15<br>37=24  | 0 (LC 1), 27=180 (LC 2'<br>0 (LC 1), 30=180 (LC 2'<br>0 (LC 1), 32=180 (LC 2'<br>9 (LC 1), 34=185 (LC 2'<br>9 (LC 1), 36=242 (LC 2'<br>5 (LC 16)<br>ompression/Maximum   | 1),         only. F           1),         see St           1),         or cons           1),         4)           1),         5)           6)         Truss t | designed for wind loads<br>for studs exposed to win<br>andard Industry Gable E<br>sult qualified building de<br>es are 2x4 MT20 unless<br>requires continuous bot<br>o be fully sheathed from<br>against lateral movements<br>studs spaced at 2-0-0 o | nd (norm<br>End Deta<br>signer as<br>otherwi<br>tom chor<br>n one fac<br>ent (i.e. c   | al to the face)<br>ils as applicat<br>s per ANSI/TF<br>se indicated.<br>d bearing.<br>e or securely  | ),<br>ble,<br>Pl 1.                 |  | -   | and the second   | NUM<br>PE-2001  | 018807   |

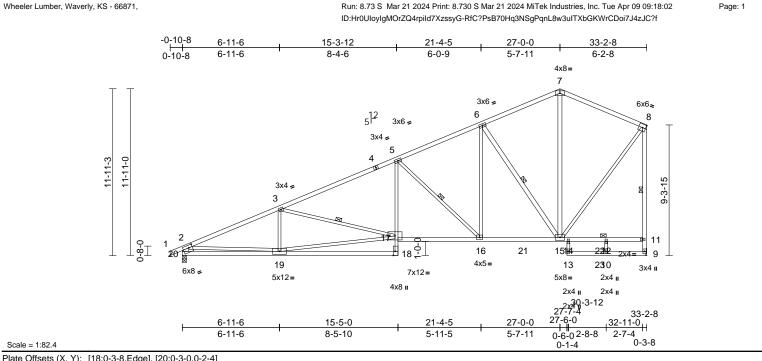
April 10,2024



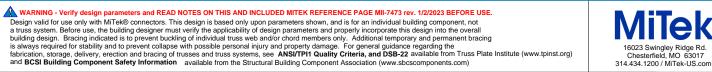
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

| Job     | Truss | Truss Type   | Qty | Ply | Lot 166 HT               |           |
|---------|-------|--------------|-----|-----|--------------------------|-----------|
| B240067 | A2    | Roof Special | 1   | 1   | Job Reference (optional) | 164780419 |

Scale = 1:82.4

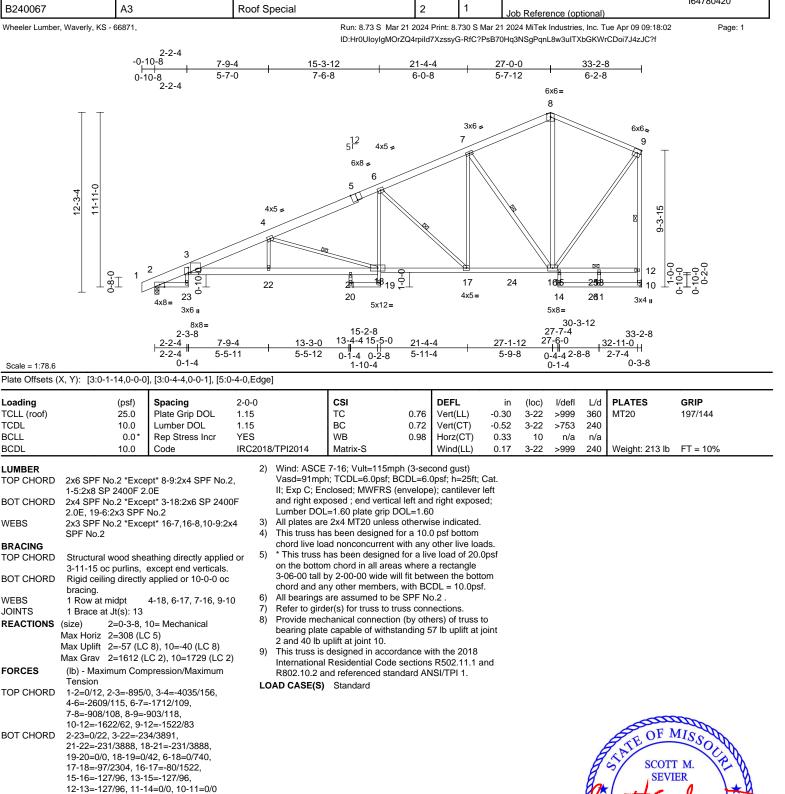


| Plate Offsets (X, Y): [18:0-3-8,Edge], [20:0-3-0,0-2-4]   |  |  |  |  |  |   |   |   |  |                                       |                                 |                                  |                                    |
|---|--|--|--|--|--|---|---|---|--|---------------------------------------|---------------------------------|----------------------------------|------------------------------------|
| <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>IRC201   | 8/TPI2014  | CSI<br>TC<br>BC<br>WB<br>Matrix-S  | 0.76<br>0.79<br>0.98  | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)<br>Wind(LL)  | -0.51<br>0.15   |  | l/defl<br>>999<br>>769<br>n/a<br>>999 | L/d<br>360<br>240<br>n/a<br>240 | PLATES<br>MT20<br>Weight: 168 lb | <b>GRIP</b><br>197/144<br>FT = 10% |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>JOINTS | 2x4 SPF No.2 *Exce<br>1.8E<br>2x4 SPF No.2 *Exce<br>2x3 SPF No.2 *Exce<br>SPF No.2, 20-2:2x6<br>Structural wood she<br>3-3-6 oc purlins, exx<br>Rigid ceiling directly<br>bracing.<br>1 Row at midpt<br>1 Brace at Jt(s): 12 | ppt* 1-4:2x4 SPF 210<br>ppt* 18-5:2x3 SPF No<br>ppt* 15-6,15-7,9-8:2x<br>SPF No.2<br>athing directly applie<br>cept end verticals.<br>applied or 9-2-14 oc<br>3-17, 5-16, 6-15, 8-5<br>nical, 20=0-3-8<br>C 5)<br>C 8), 20=-251 (LC 8) | 2)<br>00F<br>2).2<br>4 3)<br>d or 4)<br>5<br>5<br>6<br>6<br>7)<br>8<br>8<br>7)<br>8<br>8<br>8<br>7)<br>8<br>8<br>8<br>7)<br>8<br>8<br>8<br>7)<br>8<br>8<br>8<br>7<br>7<br>9<br>8<br>7<br>7<br>8<br>8<br>8<br>7<br>7<br>8<br>8<br>7<br>7<br>8<br>7<br>8 | <ul> <li>Wind: ASCE<br/>Vasd=91mpl</li> <li>Exp C; En<br/>cantilever lef<br/>right expose</li> <li>This truss ha<br/>chord live loa</li> <li>* This truss f<br/>on the bottor</li> <li>3-06-00 tall b</li> <li>chord and ar</li> <li>All bearings</li> <li>Refer to gird</li> <li>Provide mec</li> <li>bearing plate</li> <li>20 and 219 I</li> <li>This truss is</li> </ul> | 7-16; Vult=115mp<br>h; TCDL=6.0psf; B<br>(closed; MWFRS (<br>it and right expose<br>d; Lumber DOL=1<br>as been designed<br>ad nonconcurrent<br>has been designed<br>or chord in all area<br>by 2-00-00 wide wi<br>y other members,<br>are assumed to be<br>er(s) for truss to tr<br>hanical connection<br>e capable of withst<br>b uplift at joint 9.<br>designed in accor<br>Residential Code | CDL=6.<br>enveloped<br>d; end v<br>.60 plate<br>for a 10.<br>with any<br>d for a liv<br>s where<br>ill fit betw,<br>with BC<br>e SPF N-<br>uss conr<br>h (by oth<br>anding 2<br>dance w | cond gust)<br>opps; h=25ft;<br>exterior zor<br>vertical left ar<br>grip DOL=1.<br>0 psf bottom<br>other live load<br>of 20.1<br>a rectangle<br>veen the bott<br>CDL = 10.0psi<br>o.2.<br>nections.<br>ers) of truss t<br>251 lb uplift at<br>ith the 2018 | Cat.<br>ne;<br>id<br>.60<br>ads.<br>Opsf<br>om<br>f.<br>t joint |  |                                       |                                 |                                  |                                    |
| FORCES  | (lb) - Maximum Com<br>Tension<br>1-2=0/30, 2-3=-2961<br>5-6=-1679/313, 6-7=<br>2-20=-1499/282, 9-1<br>8-11=-1501/267   | /429, 3-5=-2606/430<br>906/226, 7-8=-906/  | ),   |  | nd referenced star   |   |   |   |  |                                       |                                 |                                  |                                    |
| BOT CHORD   | 19-20=-381/802, 18-<br>5-17=-44/715, 16-17<br>15-16=-213/1482, 14<br>12-14=-151/115, 11-<br>9-10=0/0   | /=-406/2327,<br>4-15=-151/115,   | ,  |  |  |   |   |   |  |                                       | Å                               | SCOT                             |                                    |
| WEBS<br>NOTES<br>1) Unbalance<br>this design  | 13-14=0/95, 3-19=-3<br>17-19=-548/2534, 3-<br>5-16=-1162/309, 6-1<br>6-15=-1260/320, 7-1<br>8-15=-179/1262, 2-1<br>10-12=0/77<br>ed roof live loads have   | -17=-367/141,<br>6=-126/1002,<br>5=-66/389,<br>9=-178/1865,  |  |  |  |   |   |   |  |                                       |                                 | SEVI<br>NUMI<br>PE-20010         | BER<br>018807                      |



tour April 10,2024

| Job     | Truss | Truss Type   | Qty | Ply | Lot 166 HT               |           |
|---------|-------|--------------|-----|-----|--------------------------|-----------|
| B240067 | A3    | Roof Special | 2   | 1   | Job Reference (optional) | 164780420 |



#### NOTES

WEBS

TCDL

BCLL

BCDL

WEBS

WEBS

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

3-23=0/81, 20-21=0/37, 14-15=0/91, 4-22=0/224, 4-18=-1668/150,

6-17=-1067/111, 7-17=0/1006,

7-16=-1308/128, 8-16=-23/397, 9-16=-29/1286, 11-13=0/83

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

NUMBER

PE-200101880

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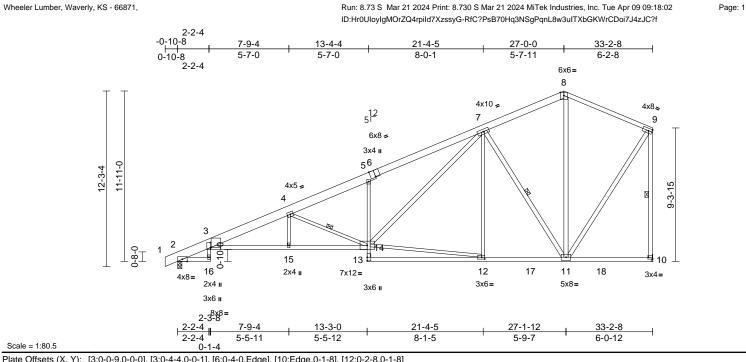
April 10,2024

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

| Job     | Truss | Truss Type   | Qty | Ply | Lot 166 HT               |           |
|---------|-------|--------------|-----|-----|--------------------------|-----------|
| B240067 | A4    | Roof Special | 2   | 1   | Job Reference (optional) | 164780421 |



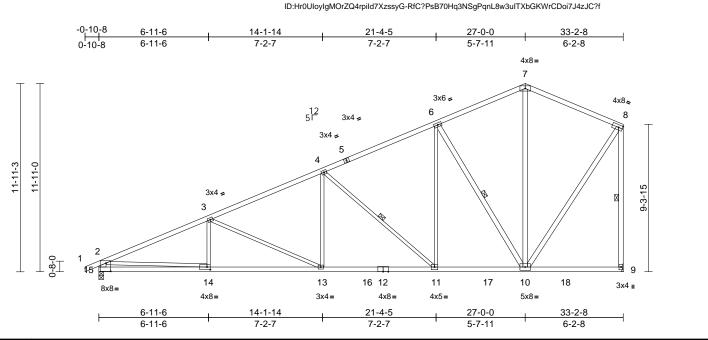
| Plate Offsets (  | X, Y): [3:0-0-9,0-0-0],  | [3:0-4-4,0-0-1], [6:0   | -4-0,Edge]                                     | , [10:Edge,0-1  | -8], [12:0-2-8,0-1-   | 3]  |  |                                |                                       |                                       |                                 | -                                |                                    |
|--|--|---|--|---|---|---|--|--------------------------------|---------------------------------------|---------------------------------------|---------------------------------|----------------------------------|------------------------------------|
| 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>IRC201         | 8/TPI2014   | <b>CSI</b><br>TC<br>BC<br>WB<br>Matrix-S  | 0.78<br>0.63<br>0.67  | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)<br>Wind(LL)   |                                | (loc)<br>14-15<br>12-13<br>10<br>3-15 | l/defl<br>>999<br>>694<br>n/a<br>>999 | L/d<br>360<br>240<br>n/a<br>240 | PLATES<br>MT20<br>Weight: 205 lb | <b>GRIP</b><br>197/144<br>FT = 10% |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>REACTIONS | 1-6:2x8 SP 2400F 2.<br>2x4 SPF No.2 *Exce<br>1.8E, 5-13:2x3 SPF<br>2x3 SPF No.2 *Exce<br>14-7,11-7,11-8,11-9,<br>Structural wood she<br>3-8-11 oc purlins, e<br>Rigid ceiling directly<br>bracing.<br>1 Row at midpt | .0E<br>ppt* 3-14:2x4 SPF 21<br>No.2<br>ppt*<br>10-9:2x4 SPF No.2<br>athing directly applie<br>xcept end verticals.<br>applied or 10-0-0 oc<br>4-14, 7-11, 9-10<br>10= Mechanical<br>C 5)<br>2 8), 10=-39 (LC 8) | .2, 4)<br>100F<br>5)<br>6)<br>6d or 7)<br>2 8) | chord live loa<br>* This truss I<br>on the bottoo<br>3-06-00 tall I<br>chord and at<br>All bearings<br>Refer to gird<br>Provide mec<br>bearing plate<br>2 and 39 Ib o<br>This truss is<br>International | as been designed<br>ad nonconcurrent<br>has been designed<br>m chord in all area<br>by 2-00-00 wide w<br>ny other members<br>are assumed to be<br>ler(s) for truss to tr<br>chanical connectio<br>e capable of withst<br>uplift at joint 10.<br>designed in accor<br>Residential Code<br>nd referenced stat<br>Standard | with any<br>d for a liv<br>s where<br>ill fit betw<br>, with BC<br>e SPF No<br>uss conr<br>n (by oth<br>anding 5<br>dance w<br>sections | other live loa<br>e load of 20.0<br>a rectangle<br>yeen the botto<br>DL = 10.0psf<br>5.2.<br>ers) of truss t<br>55 lb uplift at j<br>ith the 2018<br>s R502.11.1 a | Opsf<br>om<br>f.<br>to<br>oint |                                       |                                       |                                 |                                  |                                    |
| FORCES   | (Ib) - Maximum Com<br>Tension<br>1-2=0/12, 2-3=-883/<br>4-5=-2798/132, 5-7=  | , 3-4=-3833/143,  |  |   |   |   |  |                                |                                       |                                       |                                 |                                  |                                    |
| BOT CHORD  | 7-8=-813/116, 8-9=-  | 802/125, 9-10=-1478<br>//3719, 14-15=-218/3<br>-412/149, 12-13=0/1  | 3710,  |   |   |   |  |                                |                                       |                                       |                                 | OF I                             |                                    |
| WEBS   | 3-16=0/71, 4-15=-50<br>12-14=-91/1155, 7-1<br>7-12=0/270, 7-11=-1<br>9-11=-17/1234   | )/133, 4-14=-1334/10<br> 4=-170/1661,   |  |   |   |   |  |                                |                                       |                                       | ł                               | STATE OF I                       | IM. YEY                            |
| this design<br>2) Wind: ASC<br>Vasd=91n<br>II; Exp C;<br>and right e                               | ed roof live loads have  | Cat.<br>eft   |  |   |   |   |  |                                | ې<br>بر                               |                                       | NUM<br>PE-2001                  | Serven<br>018807                 |                                    |



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April 10,2024

| Job     | Truss | Truss Type | Qty | Ply | Lot 166 HT               |           |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B240067 | A5    | Common     | 1   | 1   | Job Reference (optional) | 164780422 |



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#### Plate Offsets (X, Y): [14:0-2-8,0-2-0], [15:0-3-8,0-6-4]

Scale = 1:73

|                     |  | -                               |                 |                |                                       |             |                   |       |       |        |         |                |          |
|---------------------|--|---------------------------------|-----------------|----------------|---------------------------------------|-------------|-------------------|-------|-------|--------|---------|----------------|----------|
| 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)          |       | 11-13 | >999   | 360     | MT20           | 197/144  |
| TCDL                | 10.0   | Lumber DOL                      | 1.15            |                | BC                                    | 0.91        | Vert(CT)          | -0.34 | 11-13 | >999   | 240     |                |          |
| BCLL                | 0.0*   | Rep Stress Incr                 | YES             |                | WB                                    | 0.94        | Horz(CT)          | 0.08  | 9     | n/a    | n/a     |                |          |
| BCDL                | 10.0   | Code                            | IRC201          | 8/TPI2014      | Matrix-S                              |             | Wind(LL)          | 0.09  | 13-14 | >999   | 240     | Weight: 161 lb | FT = 10% |
|                     |  |                                 | 4)              | ) * This truck | nas been designe                      | d for a liv | a load of 20      | Onof  |       |        |         |                |          |
| LUMBER<br>TOP CHORD | 2x4 SPF No.2   |                                 | 4)              |                | n chord in all area                   |             |                   | opsi  |       |        |         |                |          |
| BOT CHORD           |  |                                 |                 |                | y 2-00-00 wide w                      |             | 0                 | om    |       |        |         |                |          |
| WEBS                | 2x3 SPF No.2 *Exce   | •nt*                            |                 |                | y other members                       |             |                   |       |       |        |         |                |          |
| WEbb                | 10-8,9-8,10-6,10-7:2   |                                 | 2x6 5)          |                | are assumed to b                      |             |                   |       |       |        |         |                |          |
|                     | SPF No.2 6) Refer to girder(s) for truss to truss connections. |                                 |                 |                |                                       |             |                   |       |       |        |         |                |          |
| BRACING             |  |                                 | 7)              | ) Provide mec  | hanical connectio                     | n (by oth   | ers) of truss     | to    |       |        |         |                |          |
| TOP CHORD           | O Structural wood she  | athing directly applie          | ed or           |                | e capable of withs                    | tanding 3   | 84 lb uplift at j | joint |       |        |         |                |          |
|                     | 2-8-10 oc purlins, e   |                                 |                 |                | uplift at joint 9.                    |             |                   |       |       |        |         |                |          |
| BOT CHORD           | Rigid ceiling directly   | applied or 10-0-0 or            | c <sup>8)</sup> |                | designed in accor                     |             |                   |       |       |        |         |                |          |
|                     | bracing.   |                                 |                 |                | Residential Code<br>nd referenced sta |             |                   | and   |       |        |         |                |          |
| WEBS                |  | 8-9, 4-11, 6-10                 |                 |                |                                       | nuaru Ar    | NOI/TELT.         |       |       |        |         |                |          |
| REACTIONS           | ( )  | anical, 15=0-3-8                | L               | OAD CASE(S)    | Standard                              |             |                   |       |       |        |         |                |          |
|                     | Max Horiz 15=278 (I  |                                 |                 |                |                                       |             |                   |       |       |        |         |                |          |
|                     | Max Uplift 9=-59 (LC   | ,. ( <i>)</i>                   |                 |                |                                       |             |                   |       |       |        |         |                |          |
|                     | Max Grav 9=1621 (I   | <i>.</i>                        | 2)              |                |                                       |             |                   |       |       |        |         |                |          |
| FORCES              | (lb) - Maximum Com   | npression/Maximum               |                 |                |                                       |             |                   |       |       |        |         |                |          |
| TODOUODD            | Tension  |                                 |                 |                |                                       |             |                   |       |       |        |         |                |          |
| TOP CHORD           |  |                                 |                 |                |                                       |             |                   |       |       |        |         |                |          |
|                     | 2-15=-1503/72, 8-9=  | ·830/67, 7-8=-824/74<br>1404/80 | Ι,              |                |                                       |             |                   |       |       |        |         |                |          |
| BOT CHORD           | ,  |                                 |                 |                |                                       |             |                   |       |       |        |         |                |          |
| bor onord           | 11-13=-183/2103, 1   |                                 |                 |                |                                       |             |                   |       |       |        |         |                |          |
|                     | 9-10=-2/12   | oo <u>_</u> ,.co,,              |                 |                |                                       |             |                   |       |       |        |         | 2000           | all      |
| WEBS                |  | 4=0/1810, 3-14=0/20             | 0,              |                |                                       |             |                   |       |       |        |         | TATE OF M      | Also     |
|                     | 3-13=-610/89, 4-13=  | =0/553, 4-11=-1015/*            | 107,            |                |                                       |             |                   |       |       |        |         | 450            | -20 M    |
|                     | 6-11=0/927, 6-10=-1  | 1231/131, 7-10=0/34             | 2               |                |                                       |             |                   |       |       |        | R       | NY SCOT        | New York |
| NOTES               |  |                                 |                 |                |                                       |             |                   |       |       |        | 4       | S/ BCOI.       |          |
| 1) Unbalanc         | ced roof live loads have                                       | been considered for             | r               |                |                                       |             |                   |       |       |        | b.      | SEVI           |          |
| this desig          |  |                                 |                 |                |                                       |             |                   |       |       | 80     |         |                |          |
|                     | SCE 7-16; Vult=115mph  |                                 | -               |                |                                       |             |                   |       |       |        |         | Lat K          |          |
|                     | mph; TCDL=6.0psf; BC   |                                 |                 |                |                                       |             |                   |       |       | -      |         | NUM            | SERVING  |
|                     | ; Enclosed; MWFRS (er  |                                 |                 |                |                                       |             |                   |       |       | 127    | PE-2001 | 018807         |          |
|                     | exposed ; end vertical   | ien exposed; Lumbe              | ſ               |                |                                       |             |                   |       |       |        | N       | PE-2001        | 128      |
|                     | 0 plate grip DOL=1.60<br>s has been designed fo                | r a 10.0 psf hottom             |                 |                |                                       |             |                   |       |       |        | Y       | 1ºSe           | S B      |

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

April 10,2024

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JONAL

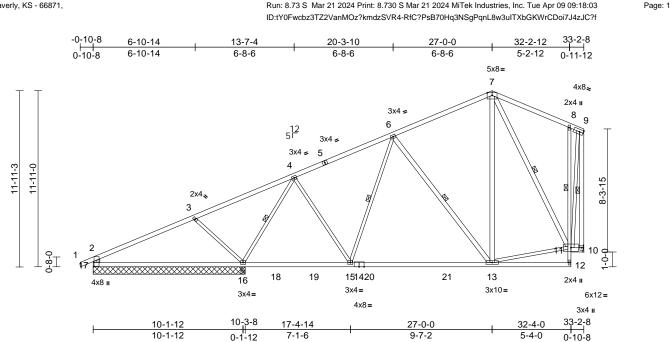
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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



| Job     | Truss | Truss Type   | Qty | Ply | Lot 166 HT               |           |
|---------|-------|--------------|-----|-----|--------------------------|-----------|
| B240067 | A6    | Roof Special | 1   | 1   | Job Reference (optional) | 164780423 |

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Wheeler Lumber, Waverly, KS - 66871,



| Scale = | = 1:78 |  |
|---------|--------|--|
|         |        |  |

| Plate Offsets (X, Y): [1 | 17:0-4-11,0-2- | 0]      |     |
|--------------------------|----------------|---------|-----|
| Looding                  | (nof)          | Specing | 200 |

| 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 | CSI<br>TC<br>BC<br>WB<br>Matrix-S                                  | 0.76                       | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)<br>Wind(LL) |             | (loc)<br>13-15<br>13-15<br>10<br>13-15 | l/defl<br>>851<br>>530<br>n/a<br>>999 | L/d<br>360<br>240<br>n/a<br>240 | PLATES<br>MT20<br>Weight: 168 lb | <b>GRIP</b><br>197/144 |
|--|---------------------------------------|--|---|--|----------------------------|--|-------------|--|---------------------------------------|---------------------------------|----------------------------------|------------------------|
| LUMBER<br>TOP CHORD<br>BOT CHORD               | MBER<br>P CHORD 2x4 SPF No.2          |  | 2) Wind: ASCE<br>Vasd=91mp<br>II; Exp C; En     | 7-16; Vult=115<br>h; TCDL=6.0ps<br>closed; MWFR<br>t and right exp | f; BCDL=6.0<br>S (envelope | ond gust)<br>Dpsf; h=25ft;<br>e) exterior zo         | Cat.<br>ne; | 13-13                                  |                                       | 240                             | Weight. 100 lb                   | 11 - 1078              |

| BOT CHORD     | 2x4 SPF    | No.2 *Ex  | cept* 17-14:2x4 SPF          |
|---------------|------------|-----------|------------------------------|
|               | 2100F 1.8  | BE, 12-8: | 2x3 SPF No.2                 |
| WEBS          | 2x3 SPF I  | No.2 *Ex  | cept*                        |
|               | 13-6,13-7  | ,11-7,10- | 9:2x4 SPF No.2, 17-2:2x6     |
|               | SPF No.2   |           |                              |
| BRACING       |            |           |                              |
| TOP CHORD     | Structura  | wood sh   | neathing directly applied or |
|               |            |           | except end verticals.        |
| BOT CHORD     |            |           | ly applied or 10-0-0 oc      |
|               | bracing.   | 0         | .,                           |
| 1 Row at midp | 0          |           |                              |
| WEBS          | 1 Row at   | midpt     | 4-16, 6-15, 6-13, 7-11,      |
|               |            | mapt      | 9-10                         |
| REACTIONS     | (size)     | 10= Me    | chanical, 16=10-3-8,         |
|               | . ,        | 17=10-3   | 3-8                          |
|               | Max Horiz  | 17=382    | (LC 5)                       |
|               | Max Uplift | 10=-143   | 3 (LC 8), 16=-252 (LC 8),    |
|               |            | 17=-75    | (LC 8)                       |
|               | Max Grav   | 10=110    | 9 (LC 2), 16=1573 (LC 2),    |
|               |            | 17=540    | (LC 23)                      |
| FORCES        | (lb) - Max | imum Co   | mpression/Maximum            |
|               | Tension    |           |                              |
| TOP CHORD     | 1-2=0/30.  | 2-3=-47   | 8/74. 3-4=-185/95.           |
|               | 4-6=-914   | 183. 6-7  | =-586/172, 7-8=-219/154,     |
|               |            |           | 0=-910/211, 2-17=-439/135    |
| BOT CHORD     |            | ,         | 5-16=-216/604,               |
|               |            |           | 2-13=-21/106, 11-12=0/57,    |
|               |            |           | )-11=-114/87                 |
| WEBS          | 3-16=-50   | 1/254.4-  | 16=-1094/208, 4-15=0/338,    |
|               |            |           | 3=-489/229, 7-13=-84/665,    |
|               |            | , -       | 11=-816/101,                 |
|               | 0 4 4 4 5  |           |                              |

NOTES

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

9-11=-159/896

right exposed; Lumber DOL=1.60 plate grip DOL=1.60 This truss has been designed for a 10.0 psf bottom 3) chord live load nonconcurrent with any other live loads. \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf. Bearings are assumed to be: Joint 16 SPF 2100F 1.8E , Joint 10 SPF No.2 , Joint 16 SPF 2100F 1.8E Refer to girder(s) for truss to truss connections. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 17, 143 lb uplift at joint 10 and 252 lb uplift at joint 16.

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

LOAD CASE(S) Standard

4)

5)

6)

7)



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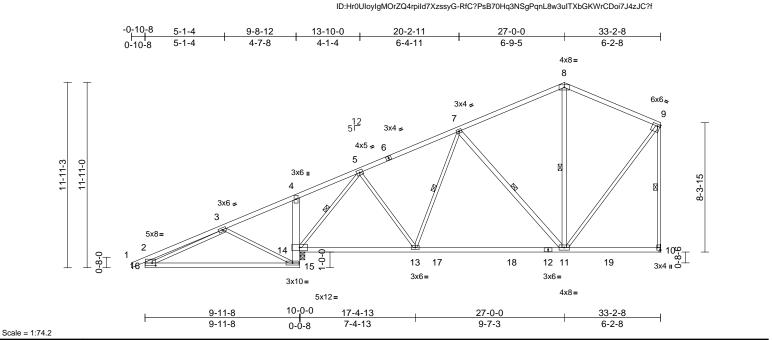


| Job     | Truss | Truss Type   | Qty | Ply | Lot 166 HT               |           |
|---------|-------|--------------|-----|-----|--------------------------|-----------|
| B240067 | A7    | Roof Special | 3   | 1   | Job Reference (optional) | 164780424 |

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Wheeler Lumber, Waverly, KS - 66871,



#### Plate Offsets (X, Y): [2:0-2-12,0-2-0], [9:0-2-0,0-1-8], [10: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    |                | TC  | 0.98      | Vert(LL)       | -0.25 | 11-13 | >999   | 360  | MT20           | 197/144   |
| TCDL                             | 10.0  | Lumber DOL                   | 1.15    |                | BC  | 0.70      | Vert(CT)       | -0.53 | 15-16 | >215   | 120  |                |           |
| BCLL                             | 0.0*  | Rep Stress Incr              | YES     |                | WB  | 0.88      | Horz(CT)       | 0.01  | 10    | n/a    | n/a  |                |           |
| BCDL                             | 10.0  | Code                         | IRC201  | 8/TPI2014      | Matrix-S  |           | Wind(LL)       | -0.03 | 10-11 | >999   | 240  | Weight: 153 lb | FT = 10%  |
| LUMBER<br>TOP CHORD<br>BOT CHORD | 2x4 SPF No.2<br>2x4 SPF 2100F 1.8E          | = *Event* 15 1.9ve           |         | chord live loa | is been designed f<br>ad nonconcurrent v<br>nas been designed | with any  | other live loa |       |       |        |      |                |           |
| BUICHURD                         | 2400F 2.0E, 12-10:2                         |                              | 5P 7    |                | n chord in all areas  |           |                | opsi  |       |        |      |                |           |
| WEBS                             | 2x3 SPF No.2 *Exce<br>No.2, 16-2:2x6 SPF    | ept* 11-8,7-11:2x4 S         | PF      | chord and ar   | by 2-00-00 wide wing other members,                           | with BC   | DL = 10.0ps    | f.    |       |        |      |                |           |
| BRACING                          |   |                              | 5       |                | assumed to be: J  | oint 14 S | SPF 2100F 1    | .8E,  |       |        |      |                |           |
| TOP CHORD                        | Structural wood she<br>6-0-0 oc purlins, ex |                              | ed or 6 |                | er(s) for truss to tru  |           |                |       |       |        |      |                |           |
| BOT CHORD                        | Rigid ceiling directly<br>bracing.          | applied or 6-0-0 oc          | 7       | bearing plate  | hanical connectior<br>capable of withst                       |           |                |       |       |        |      |                |           |
| WEBS                             |   | 8-11, 9-10, 5-14, 7-<br>7-11 | 13, 8   |                | uplift at joint 10.<br>designed in accore                     | dance w   | ith the 2018   |       |       |        |      |                |           |
|                                  | Max Horiz 14=298 (I<br>Max Uplift 10=-20 (L | .C 9), 14=-180 (LC 4         | •)      |                | Residential Code<br>nd referenced star<br>Standard            |           |                | and   |       |        |      |                |           |
|                                  | Max Grav 10=956 (I                          | ,, (                         | 2)      |                |   |           |                |       |       |        |      |                |           |
| FORCES                           | (lb) - Maximum Corr<br>Tension              | pression/maximum             |         |                |   |           |                |       |       |        |      |                |           |
| TOP CHORD                        | 1-2=0/30, 2-3=-333/                         | 84. 3-4=-208/1192.           |         |                |   |           |                |       |       |        |      |                |           |
|                                  | 4-5=-273/1531, 5-7=                         |                              | 35,     |                |   |           |                |       |       |        |      |                |           |
|                                  | 8-9=-509/100, 2-16=                         | -301/69, 9-10=-855           | /45     |                |   |           |                |       |       |        |      |                |           |
| BOT CHORD                        | 15-16=-615/165, 14                          | -15=-78/367,                 |         |                |   |           |                |       |       |        |      | ~              |           |
|                                  | 4-14=-175/76, 13-14                         | 1=-207/209,                  |         |                |   |           |                |       |       |        |      | and            | m         |
|                                  | 11-13=-116/554, 10                          | -11=-96/72                   |         |                |   |           |                |       |       |        |      | A OF I         | MIS.C.    |
| WEBS                             | 3-15=-505/117, 8-11                         |                              |         |                |   |           |                |       |       |        | 1    | STATE OF M     | - SOLA    |
|                                  | 3-16=-230/1004, 9-1                         | ,                            |         |                |   |           |                |       |       |        | R    | N SCOT         | New Mar   |
|                                  | 5-13=-14/770, 5-14=                         |                              |         |                |   |           |                |       |       |        | 4    | S SCOL         | I MI. YAY |
|                                  | 7-13=-406/140, 7-11                         | 1=-206/109                   |         |                |   |           |                |       |       |        | Ø .  | SEVI           |           |
| NOTES                            |   |                              |         |                |   |           |                |       |       |        | 8    |                |           |
| ,                                | ed roof live loads have                     | been considered fo           | r       |                |   |           |                |       |       |        | XX.  |                | · Kan ITA |
| this design                      |   |                              |         |                |   |           |                |       |       |        |      |                | Fermen    |
| <ol> <li>Wind: ASC</li> </ol>    | E 7-16: Vult-115mph                         | (3-second quet)              |         |                |   |           |                |       |       |        | YI m |                |           |

 Wind: ASCE 7-16; Vult=115mph (3-second gust)
 Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

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April 10,2024

PE-200101880

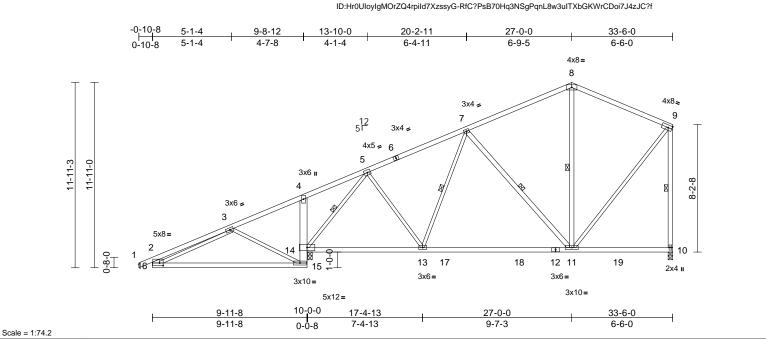
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| Job     | Truss | Truss Type   | Qty | Ply | Lot 166 HT               |           |
|---------|-------|--------------|-----|-----|--------------------------|-----------|
| B240067 | A8    | Roof Special | 4   | 1   | Job Reference (optional) | 164780425 |

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. Tue Apr 09 09:18:03

Wheeler Lumber, Waverly, KS - 66871,



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

| 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>IRC201              | 8/TPI2014  | CSI<br>TC<br>BC<br>WB<br>Matrix-S  | 0.62<br>0.71<br>0.89   | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)<br>Wind(LL)   | in<br>-0.25<br>-0.53<br>-0.01<br>0.03 | (loc)<br>11-13<br>15-16<br>10<br>11-13 | l/defl<br>>999<br>>215<br>n/a<br>>999 | L/d<br>360<br>120<br>n/a<br>240 | PLATES<br>MT20<br>Weight: 156 lb | <b>GRIP</b><br>197/144<br>FT = 10% |
|--|---|---|---|--|--|--|--|---------------------------------------|--|---------------------------------------|---------------------------------|----------------------------------|------------------------------------|
|  | 2x4 SPF 2100F 1.8E<br>2400F 2.0E, 12-10:2<br>2x3 SPF No.2 *Exce<br>10-9,11-8,7-11:2x4 \$<br>Structural wood she<br>6-0-0 oc purlins, ex<br>Rigid ceiling directly<br>bracing.<br>1 Row at midpt | 2x4 SPF No.2<br>pt* 16-2:2x6 SPF No.2<br>athing directly applie<br>cept end verticals.<br>applied or 6-0-0 oc<br>9-10, 8-11, 5-14, 7-1<br>7-11<br>14=0-3-8<br>LC 5)<br>LC 9), 14=-382 (LC - | SP 4)<br>5).2,<br>5)<br>d or 6)<br>13, 7)<br>13, 20 | <ul> <li>chord live loa</li> <li>* This truss live</li> <li>on the bottoo</li> <li>3-06-00 tall live</li> <li>chord and at</li> <li>Bearings are</li> <li>Joint 10 SPF</li> <li>Provide mec</li> <li>bearing plate</li> <li>10 and 382 live</li> <li>This truss is</li> <li>International</li> </ul> | chanical connection<br>e capable of withst<br>b uplift at joint 14.<br>designed in accor<br>Residential Code<br>nd referenced star | with any<br>d for a liv<br>is where<br>ill fit betw<br>, with BC<br>loint 14 \$<br>n (by oth<br>canding 1<br>dance w<br>sections | other live load<br>e load of 20.0<br>a rectangle<br>veen the bott<br>DL = 10.0psi<br>SPF 2100F 1.<br>ers) of truss i<br>17 lb uplift al<br>ith the 2018<br>s R502.11.1 a | Opsf<br>f.<br>.8E ,<br>to<br>t joint  |  |                                       |                                 |                                  |                                    |
| FORCES   | (lb) - Maximum Com  |   | -)  |  |  |  |  |                                       |  |                                       |                                 |                                  |                                    |
| TOP CHORD                                      | Tension<br>1-2=0/30, 2-3=-333/<br>4-5=-400/1531, 5-7=<br>8-9=-523/172, 2-16=  | -547/102, 7-8=-538/   |   |  |  |  |  |                                       |  |                                       |                                 |                                  |                                    |
| BOT CHORD                                      | 15-16=-615/227, 14<br>4-14=-175/116, 13-1<br>11-13=-186/539, 10-  | -15=-108/367,<br>4=-250/200,  |   |  |  |  |  |                                       |  |                                       |                                 | OF M                             |                                    |
| WEBS   | 8-11=-145/127, 9-11<br>5-14=-2152/342, 7-1<br>7-11=-202/175, 3-15<br>3-16=-309/1004   | =-75/655, 5-13=-54/<br>3=-411/176,  | 776,  |  |  |  |  |                                       |  |                                       |                                 | STATE OF M                       |                                    |
| this desigr<br>2) Wind: ASC                    | ed roof live loads have   | (3-second gust)   |   |  |  |  |  |                                       |  | -                                     |                                 | PE-2001                          |                                    |

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

April 10,2024

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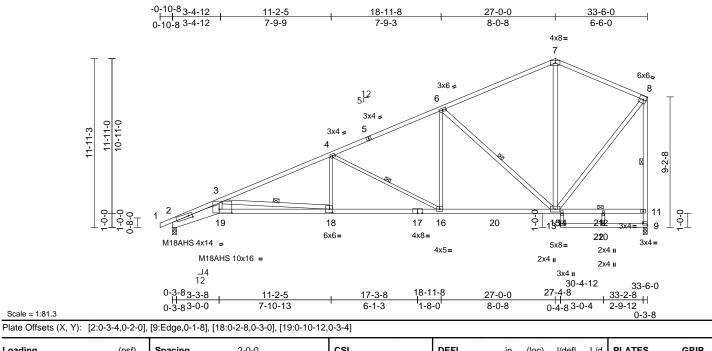


| Job     | Truss | Truss Type   | Qty | Ply | Lot 166 HT               |           |
|---------|-------|--------------|-----|-----|--------------------------|-----------|
| B240067 | A9    | Roof Special | 2   | 1   | Job Reference (optional) | 164780426 |

Scale = 1:81.3

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Page: 1



| Loading (p     | osf) | Spacing         | 2-0-0           | CSI      |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES         | GRIP     |
|----------------|------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) 25 | 5.0  | Plate Grip DOL  | 1.15            | тс       | 0.80 | Vert(LL) | -0.52 | 18-19 | >772   | 360 | MT20           | 197/144  |
| TCDL 10        | 0.0  | Lumber DOL      | 1.15            | BC       | 0.88 | Vert(CT) | -0.92 | 18-19 | >434   | 240 | M18AHS         | 142/136  |
| BCLL           | 0.0* | Rep Stress Incr | YES             | WB       | 0.95 | Horz(CT) | 0.36  | 9     | n/a    | n/a |                |          |
| BCDL 10        | 0.0  | Code            | IRC2018/TPI2014 | Matrix-S |      | Wind(LL) | 0.41  | 18-19 | >982   | 240 | Weight: 166 lb | FT = 10% |

|                       | 2x4 SPF No.2 *Except* 1-5:2x4 SPF 2100F<br>1.8E<br>2x8 SP 2400F 2.0E *Except* 19-17:2x4 SPF<br>2400F 2.0E, 14-13:2x3 SPF No.2, 13-9:2x4<br>SPF No.2, 17-11:2x4 SPF 2100F 1.8E<br>2x4 SPF No.2 *Except*<br>19-3,4-18,6-16,16-4,10-12:2x3 SPF No.2<br>Structural wood sheathing directly applied or<br>2-4-13 oc purlins, except end verticals.<br>Rigid ceiling directly applied or 6-0-0 oc<br>bracing.<br>1 Row at midpt 8-9, 4-16, 3-18, 6-15<br>1 Brace at Jt(s): 12<br>(size) 2=0-3-8, 9=0-3-8<br>Max Horiz 2=412 (LC 8)<br>Max Uplift 2=-230 (LC 8), 9=-240 (LC 8)<br>Max Grav 2=1629 (LC 2), 9=1744 (LC 2)<br>((b) - Maximum Compression/Maximum<br>Tension<br>1-2=0/9, 2-3=-7339/1501, 3-4=-3356/496,<br>4-6=-2124/312, 6-7=-996/169, 7-8=-965/195,<br>9-11=-1641/260, 8-11=-1537/269<br>2-19=-1781/6778, 18-19=-1645/6161,<br>16-18=-721/3056, 15-16=-413/1879,<br>14-15=-7/16, 12-14=-94/16, 11-12=-94/16,<br>13-14=0/96, 10-13=-1/102, 9-10=-1/102<br>3-19=-436/2157, 4-18=0/584, 6-16=-61/918,<br>4-16=-1326/347, 7-15=0/356,<br>3-18=-3119/927, 6-15=-1418/369, | 3)<br>4)<br>5)<br>6)<br>7)<br>8)<br>9) | <ul> <li>Wind: ASCE 7-16; Vult=115mph (3-second gust)</li> <li>Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.</li> <li>II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60</li> <li>All plates are MT20 plates unless otherwise indicated.</li> <li>This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.</li> <li>* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.</li> <li>Bearings are assumed to be: Joint 2 SP 2400F 2.0E, Joint 9 SPF No.2.</li> <li>Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.</li> <li>Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 230 lb uplift at join 2 and 240 lb uplift at joint 9.</li> <li>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.</li> <li>AD CASE(S) Standard</li> </ul> |
|-----------------------|---|--|---|
|                       | 4-16=-1326/347, 7-15=0/356,   |  |   |
| NOTES<br>1) Unbalance | d roof live loads have been considered for  |  |   |
| ., crisciantee        |   |  |   |

- been designed for a 10.0 psf bottom
- nonconcurrent with any other live loads. s been designed for a live load of 20.0psf chord in all areas where a rectangle 2-00-00 wide will fit between the bottom other members, with BCDL = 10.0psf.
- ssumed to be: Joint 2 SP 2400F 2.0E, .2 t(s) 2 considers parallel to grain value Pl 1 angle to grain formula. Building
- d verify capacity of bearing surface. anical connection (by others) of truss to
- apable of withstanding 230 lb uplift at joint plift at joint 9. esigned in accordance with the 2018
- OF MISS SCOTT M. SEVIER NUMBER PE-2001018807 C SSIONAL E

this design.



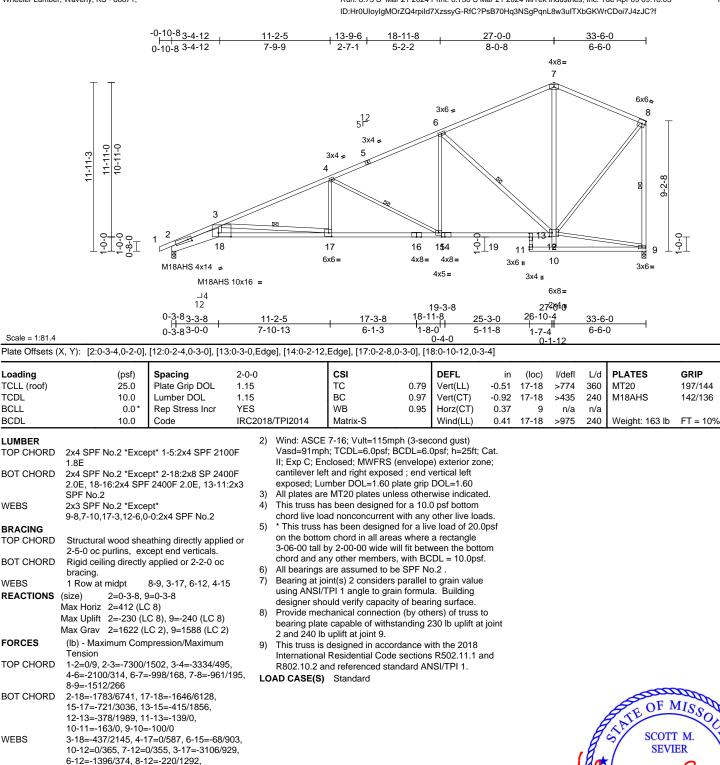
Chesterfield MO 63017 314.434.1200 / MiTek-US.com

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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 beigh valid for use only with with with sets outputs into design is based only door parameters shown, and is for an individual dualing 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 Quality Criteria**, and **DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

| Job     | Truss | Truss Type   | Qty | Ply | Lot 166 HT               |           |
|---------|-------|--------------|-----|-----|--------------------------|-----------|
| B240067 | A10   | Roof Special | 3   | 1   | Job Reference (optional) | 164780427 |

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#### NOTES

WEBS

Loading

TCDL

BCLL

BCDL

WEBS

WEBS

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

4-15=-1329/344, 9-12=0/108

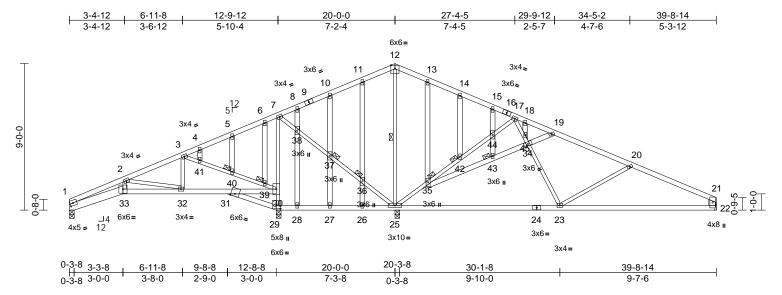
**MIMB** PE-200101880' 0 SIONAL April 10,2024

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| Job     | Truss | Truss Type                    | Qty | Ply | Lot 166 HT               |           |
|---------|-------|-------------------------------|-----|-----|--------------------------|-----------|
| B240067 | B1    | Roof Special Structural Gable | 1   | 1   | Job Reference (optional) | 164780428 |

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Scale = 1:70.8

#### Plate Offsets (X, Y): [1:0-2-0,0-2-0], [29:0-3-0,0-2-8]

|   |  | -   |                             |  |   |   |  |  |  |  |  |  |   |
|---|--|---|-----------------------------|--|---|---|--|--|--|--|--|--|---|
| 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  | 0.62  | Vert(LL)   | -0.15  | 23-25  | >999   | 360  | MT20   | 197/144   |
| TCDL  | 10.0   | Lumber DOL  | 1.15                        |  | BC  | 0.69  | Vert(CT)   | -0.30  | 22-23  | >770   | 240  |  |   |
| BCLL  | 0.0*   | Rep Stress Incr   | YES                         |  | WB  | 0.65  | Horz(CT)   | 0.03   | 29   | n/a  | n/a  |  |   |
| BCDL  | 10.0   | Code  | IRC2018                     | 3/TPI2014  | Matrix-S  |   | Wind(LL)   | 0.07   | 26-27  | >999   | 240  | Weight: 202 lb   | FT = 10%  |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>WEBS | 2x4 SPF No.2 *Exc<br>2x3 SPF No.2 *Exc<br>19-34,34-35:2x4 SF<br>2x4 SPF No.2           | eathing directly applie cept end verticals.   | 0.2<br>Io.2,                |  | 2-33=-92/400, 29-<br>7-30=-528/275, 7-<br>37-38=-470/298, 3<br>25-36=-479/304, 1<br>20-23=-350/187, 3<br>25-35=-1116/367,<br>42-44=-644/136, 1<br>17-45=0/384, 34-4<br>3-41=-638/185, 40<br>39-40=-638/185, 19<br>35-43=-354/179, 3<br>400-400  | 38=-477,<br>36-37=-4<br>2-25=-9<br>3-32=0/20<br>35-42=-1<br>17-44=-62<br>15=0/526<br>0-41=-62<br>30-39=-62<br>0-34=-48<br>34-43=-3                  | /303,<br>79/298,<br>17/110,<br>00,<br>655/147,<br>89/150,<br>, 23-34=0/51<br>2/179,<br>36/183,<br>0/226,<br>41/174,  |  | 10) Bea<br>usin<br>des<br>11) Pro<br>bea<br>1, 1<br>lb u<br>12) Thi<br>Inte<br>R80 | aring at j<br>ng ANSI<br>signer sh<br>ovide me<br>aring pla<br>aring pla<br>198 lb up<br>uplift at jo<br>s truss is<br>ernationa | joint(s)<br>/TPI 1<br>hould ve<br>chanic<br>te capa<br>olift at jo<br>oint 25.<br>s desig<br>al Resid<br>and ref | angle to grain for<br>erify capacity of the<br>al connection (by<br>able of withstandi<br>joint 29, 87 lb upli<br>ned in accordance<br>dential Code sect<br>erenced standard | Illel to grain value<br>mula. Building<br>bearing surface.<br>or others) of truss to<br>ng 44 lb uplift at joint<br>ft at joint 22 and 431<br>ce with the 2018<br>tions R502.11.1 and |
| JOINTS  | 1 Brace at Jt(s): 35,<br>36, 37, 39, 40, 42,<br>43                                     |   |                             | 2  | 11-36=-109/17, 26<br>27-37=-30/59, 8-3<br>6-39=-19/17, 5-40<br>13-35=-197/78, 14  | 8=-27/90<br>=-52/25,  | ), 28-38=-15/5<br>4-41=-17/45,   | 58,  |  | ,  |  |  |   |
|   | 25=0-3-8<br>Max Horiz 1=154 (L<br>Max Uplift 1=-44 (LC<br>25=-431<br>Max Grav 1=354 (L | C 8), 22=-87 (LC 9),<br>(LC 9), 29=-198 (LC 8   | 1)<br>3)<br>2), 2)          | DTES<br>Unbalanced<br>this design.<br>Wind: ASCE<br>Vasd=91mpl   | 43-44=-34/14, 18-<br>roof live loads hav<br>7-16; Vult=115mp<br>h; TCDL=6.0psf; E   | 45=-168<br>ve been o<br>ph (3-sec<br>3CDL=6.0   | /398<br>considered fo<br>cond gust)<br>0psf; h=25ft; (   | r<br>Cat.                                      |  |  |  |  |   |
| FORCES  | (lb) - Maximum Con<br>Tension  |   | .,                          | cantilever lef   | closed; MWFRS (<br>ft and right expose  | d; end \  | ,<br>vertical left an  | d  |  |  |  |  | APP   |
| TOP CHORD   | 1-2=-1137/289, 2-3<br>4-5=-72/590, 5-6=-5  | 56/867, 10-11=-31/8<br>13=-31/902,<br>15=-86/868,<br>18=-145/350,<br>-20=-379/70,<br>-22=-444/133<br>-33=-351/896,<br>-31=-181/645,<br>29=-523/87,<br>27=-523/87, | 3)<br>95,<br>4)<br>5)<br>6) | Truss desig<br>only. For stu-<br>see Standarr<br>or consult qu<br>All plates are<br>Gable studs<br>This truss ha<br>chord live loa<br>* This truss ha<br>chord live loa<br>* This truss tho<br>on the bottor<br>3-06-00 tall b<br>chord and ar<br>Bearings are | d; Lumber DOL=1<br>ned for wind loads<br>uds exposed to wind<br>d Industry Gable E<br>alified building de<br>e 2x4 MT20 unless<br>spaced at 2-0-0 o<br>as been designed<br>ad nonconcurrent<br>has been designed<br>m chord in all area<br>by 2-00-00 wide w<br>hy other members<br>a assumed to be: J<br>loint 25 SPF No.2 | s in the p<br>and (norm<br>End Deta<br>signer as<br>otherwi<br>c.<br>for a 10.0<br>with any<br>d for a liv<br>s where<br>ill fit betv<br>Joint 1 SI | ane of the tru<br>al to the face)<br>ills as applicat<br>s per ANSI/TF<br>se indicated.<br>D psf bottom<br>other live loar<br>e load of 20.0<br>a rectangle<br>veen the botto<br>PF No.2, Joir | ss<br>),<br>ble,<br>Pl 1.<br>ds.<br>0psf<br>om |  |  |  | STATE OF I<br>SCOT<br>SEVI<br>NUM<br>PE-2001   | ER<br>018807  |

April 10,2024

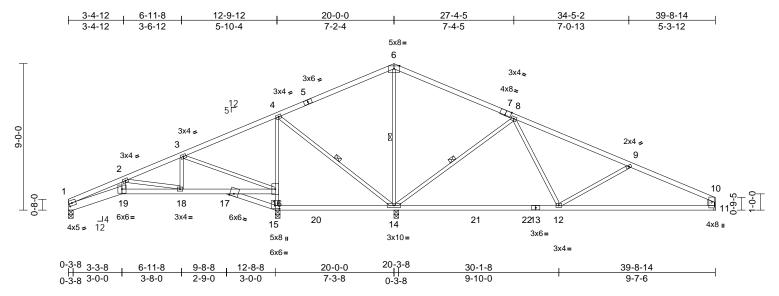
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| Job     | Truss | Truss Type   | Qty | Ply | Lot 166 HT               |           |
|---------|-------|--------------|-----|-----|--------------------------|-----------|
| B240067 | B2    | Roof Special | 3   | 1   | Job Reference (optional) | 164780429 |

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Scale = 1:70.8

#### Plate Offsets (X, Y): [1:0-2-0,0-2-0], [7:0-4-0,Edge], [15:0-3-0,0-2-8]

| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL   | (psf)<br>25.0<br>10.0<br>0.0*<br>10.0  | 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  | 0.87<br>0.76<br>0.81  | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)<br>Wind(LL)   | in<br>-0.27<br>-0.44<br>0.02<br>0.05  | (loc)<br>12-14<br>12-14<br>15<br>18-19 | l/defl<br>>866<br>>537<br>n/a<br>>999 | L/d<br>360<br>240<br>n/a<br>240 | MT20           | <b>GRIP</b><br>197/144<br>FT = 10% |
|--|--|--|---|--|--|---|--|---|--|---------------------------------------|---------------------------------|----------------|------------------------------------|
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>WEBS<br>REACTIONS<br>FORCES<br>TOP CHORD | 2x4 SPF No.2<br>2x4 SPF No.2 *Exce<br>2x3 SPF No.2 *Exce<br>Structural wood she<br>5-4-14 oc purlins, e<br>Rigid ceiling directly<br>bracing.<br>1 Row at midpt<br>(size) 1=0-3-8, 1<br>1=0-3-8, 1<br>4=0-3-8, 1<br>Max Uplift 1=-38 (LC<br>14=-460 (<br>Max Grav 1=345 (LC<br>14=2211 (<br>(b) - Maximum Com<br>Tension | pt* 1-19:2x6 SPF No<br>pt* 11-10:2x6 SPF No<br>athing directly applie<br>xcept end verticals.<br>applied or 6-0-0 oc<br>4-14, 6-14, 8-14<br>11= Mechanical,<br>15=0-3-8<br>5 (12), 11=-78 (LC 9),<br>LC 9), 15=-204 (LC 22)<br>(LC 2), 15=1060 (LC<br>pression/Maximum | 2)<br>2,2<br>10.2<br>d or 3)<br>4)<br>5)<br>6)<br>3)<br>7)<br>1),<br>23) 8) | Wind: ASCE<br>Vasd=91mp<br>II; Exp C; Er<br>cantilever le<br>right expose<br>This truss ha<br>chord live lo<br>* This truss l<br>on the bottoo<br>3-06-00 tall I<br>chord and an<br>Bearings are<br>SPF No.2,<br>Refer to gird<br>Bearing at jo<br>using ANSI/<br>designer sho<br>Provide med<br>bearing plate | 57-16; Vult=115m<br>h; TCDL=6.0psf; E<br>iclosed; MWFRS (<br>ft and right expose<br>d; Lumber DOL=1<br>as been designed<br>ad nonconcurrent<br>has been designed<br>by 2-00-00 wide w<br>hy other members<br>a assumed to be: J<br>Joint 14 SPF No.2<br>ler(s) for truss to tr<br>bint(s) 1 considers<br>TPI 1 angle to grai<br>buld verify capacity<br>shanical connection<br>e capable of withst<br>ift at joint 15, 460 | CDL=6.<br>(enveloped<br>(enveloped)<br>(.60 plate<br>for a 10.<br>with any<br>d for a liv<br>as where<br>vill fit betv<br>s, with BC<br>Joint 1 Si<br>y Joint 1 Si<br>y Joint 1 Si<br>y Joint 1 Si<br>y of bear<br>n (by oth<br>tanding 3 | cond gust)<br>Opsf; h=25ft;<br>a) exterior zo<br>vertical left ar<br>grip DOL=1.<br>D psf bottom<br>other live load<br>of 20.<br>a rectangle<br>veen the bott<br>DL = 10.0ps<br>PF No.2., Joi<br>1 SPF No.2.<br>a Building<br>ng surface.<br>ers) of truss<br>8 lb uplift at | Cat.<br>ine;<br>ind<br>.60<br>ads.<br>Opsf<br>om<br>f.<br>nt 15<br>o<br>to<br>joint | 10-13                                  | ~333                                  | 240                             | weight. 140 lb | PT = 10%                           |
| BOT CHORD  | 4-6=-75/991, 6-8=-9<br>9-10=-711/158, 10-1   | 8/991, 8-9=-378/46,<br>1=-424/123<br>9=-331/863,<br>17=-173/646,<br>15=-607/93,<br>2=-104/601<br>-731/264,<br>6=-579/352,<br>=-1153/184,<br>2=0/648, 9-12=-463/2   | 9)<br>LC  | This truss is<br>International   | designed in accor<br>Residential Code<br>nd referenced star  | sections  | R502.11.1 a  | and   |  | 7                                     |                                 | STATE OF M     | MISSOLINI<br>F M.<br>ER            |

#### NOTES

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



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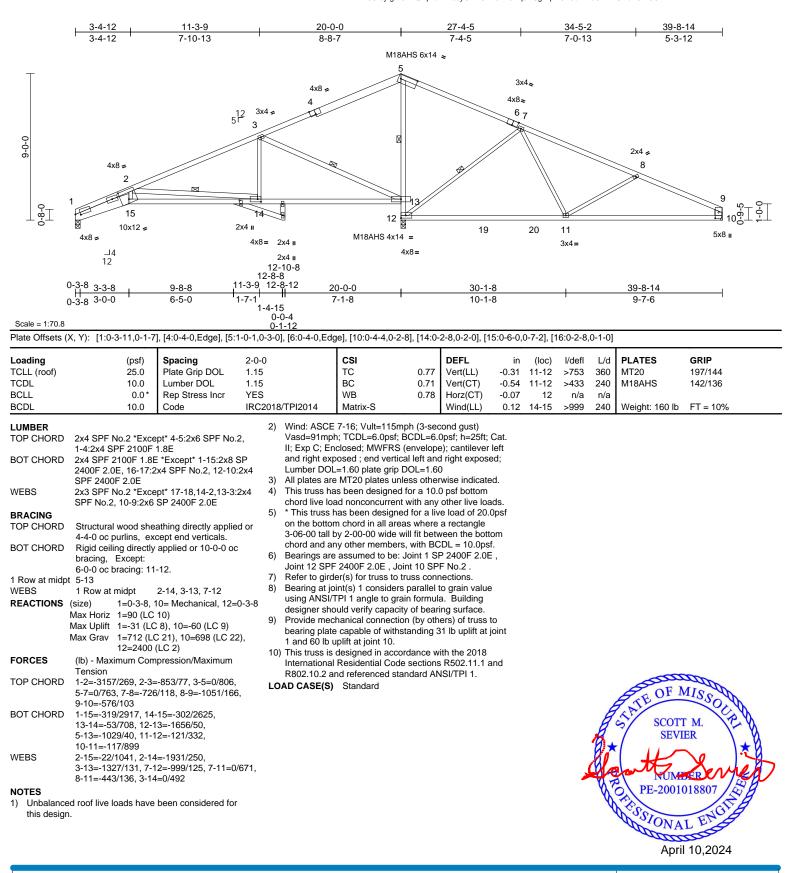
Page: 1

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| Job     | Truss | Truss Type   | Qty | Ply | Lot 166 HT               |           |
|---------|-------|--------------|-----|-----|--------------------------|-----------|
| B240067 | B3    | Roof Special | 2   | 1   | Job Reference (optional) | 164780430 |

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries. Inc. Tue Apr 09 09:18:04 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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| Job     | Truss | Truss Type   | Qty | Ply | Lot 166 HT               |           |
|---------|-------|--------------|-----|-----|--------------------------|-----------|
| B240067 | B4    | Roof Special | 1   | 1   | Job Reference (optional) | 164780431 |

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. Tue Apr 09 09:18:04 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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<u>27-4-5</u> 14-1-14 20-0-0 39-8-14 4-6-11 8-1-10 34-5-2 -4-6-11 3-6-15 6-0-4 5-10-2 7-4-5 7-0-13 5-3-12 M18AHS 6x14 👟 6 4x8 🚅 3x6 **≈** 3x4 🚅 4 5 7 3x4 👟 12 5 8 4x8 🚽 0-0-6 3 2x4 🞜 3x4 🚅 9 2 10 ې۔ 11 0-8-∏ Ģ 6 15 19 17 13 X 3x4= 18 20 21 12 6x8= 5x8 II 6x8= 5x12= 3x10= 3x4= 3x10= 2x4 🛛 20-0-0 30-1-8 39-8-14 4-6-11 8-3-6 14-1-14 4-6-11 3-8-11 5-10-8 5-10-2 10-1-8 9-7-6

Scale = 1:69

#### Plate Offsets (X, Y): [5:0-4-0,Edge], [6:1-0-1,0-3-0], [11:0-4-4,0-2-8], [19:Edge,0-3-11]

|   |   |   | -   |  |   |  |   |   |       |        |     |                |          |
|---|---|---|---|--|---|--|---|---|-------|--------|-----|----------------|----------|
| 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  | 0.75   | Vert(LL)  | -0.31   | 12-13 | >752   | 360 | MT20           | 197/144  |
| TCDL  | 10.0  | Lumber DOL  | 1.15  |  | BC  | 0.78   | Vert(CT)  | -0.54   | 12-13 | >430   | 240 | M18AHS         | 142/136  |
| BCLL  | 0.0*  | Rep Stress Incr   | YES   |  | WB  | 1.00   | Horz(CT)  | -0.10   | 13    | n/a    | n/a |                |          |
| BCDL  | 10.0  | Code  | IRC201  | 8/TPI2014  | Matrix-S  |  | Wind(LL)  | 0.09  | 12-13 | >999   | 240 | Weight: 155 lb | FT = 10% |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>1 Row at midp<br>WEBS<br>REACTIONS | 2x4 SPF No.2 *Exce<br>2x4 SPF No.2 *Exce<br>2.0E<br>2x3 SPF No.2 *Exce<br>11-10:2x6 SP 2400F<br>Structural wood she<br>4-6-6 oc purlins, ex<br>Rigid ceiling directly<br>bracing, Except:<br>6-0-0 oc bracing: 14<br>t 6-14<br>1 Row at midpt | 2pt* 5-6:2x6 SPF No.<br>2pt* 13-11:2x4 SPF 2<br>2pt* 19-1:2x4 SPF No<br>2 .0E<br>2 . | 2)<br>2400F<br>5.2, 3)<br>4)<br>6d or 5)<br>5<br>6)<br>7)<br>8)<br>7)<br>8)<br>22, 9) | Wind: ASCE<br>Vasd=91mpi<br>II; Exp C; Er<br>and right exp<br>Lumber DOL<br>All plates are<br>This truss ha<br>chord live loa<br>* This truss I<br>on the bottor<br>3-06-00 tall I<br>chord and ar<br>Bearings are<br>13 SPF 2400<br>Refer to gird<br>Provide mec<br>bearing platt<br>19 and 51 lb<br>This truss is<br>International | 7-16; Vult=115mp<br>h; TCDL=6.0psf; B<br>iclosed; MWFRS (<br>posed; end vertica<br>=1.60 plate grip D<br>a MT20 plates unle<br>as been designed<br>fad nonconcurrent<br>has been designed<br>m chord in all area<br>by 2-00-00 wide win<br>y other members,<br>a assumed to be: J<br>DF 2.0E, Joint 113<br>er(s) for truss to tri<br>hanical connection<br>a capable of withst<br>uplift at joint 11.<br>designed in accore<br>Residential Code<br>nd referenced star | CDL=6.0<br>enveloped<br>I left and<br>OL=1.60<br>ss other<br>or a 10.0<br>with any<br>I for a liv<br>s where<br>II fit betw<br>with BC<br>oint 19 S<br>SPF No.<br>uss conr<br>h (by oth<br>anding 3<br>dance w<br>sections | cond gust)<br>Opsf; h=25ft;<br>a); cantilever<br>d right expose<br>by wise indicate<br>0 psf bottom<br>other live load<br>e load of 20.1<br>a rectangle<br>ween the bott<br>CDL = 10.0ps<br>SPF No.2, Jo<br>2.<br>hections.<br>ers) of truss i<br>b lb uplift at j<br>ith the 2018<br>s R502.11.1 a | Cat.<br>left<br>ed;<br>ed.<br>ads.<br>Opsf<br>f.<br>om<br>f.<br>oint<br>to<br>joint |       |        |     | 110gm 100 12   |          |
| TOP CHORD   | 1-2=-1370/70, 2-3=-<br>4-6=0/540, 6-8=0/53<br>9-10=-1173/147, 1-1<br>10-11=-619/94  | 34, 8-9=-873/97,<br>19=-736/58,   |   |  |   |  |   |   |       |        | 4   | TATE OF M      | AISSOL   |
| BOT CHORD   | 18-19=-94/354, 17-1<br>3-16=0/449, 15-16=<br>14-15=-44/485, 13-1<br>6-14=-765/5, 12-13=<br>11-12=-100/1018  | -113/1337,<br>I4=-1473/41,  | ,00,  |  |   |  |   |   |       |        |     | S SCOT         |          |
| WEBS  | 1-18=-16/880, 4-15=<br>8-12=0/640, 9-12=-4<br>16-18=-92/1175, 8-1<br>2-16=-60/84, 3-15=-  | 418/138, 2-18=-327/8<br>13=-988/127,  | ,   |  |   |  |   |   |       |        |     | PE-2001        | 12 A     |
| NOTES   |   |   |   |  |   |  |   |   |       |        |     | NºSION -       | ENUE     |
| <ol> <li>Unbalance<br/>this design</li> </ol>   | ed roof live loads have   | been considered for   |   |  |   |  |   |   |       |        |     | C'SSIONA       | L        |

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



April 10,2024

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| Job     | Truss | Truss Type   | Qty | Ply | Lot 166 HT               |           |
|---------|-------|--------------|-----|-----|--------------------------|-----------|
| B240067 | B5    | Roof Special | 3   | 1   | Job Reference (optional) | 164780432 |

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. Tue Apr 09 09:18:04 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

4-6-11 14-1-14 20-0-0 27-4-5 39-8-14 9-7-4 34-5-2 5-10-2 4-6-11 5-0-9 4-6-10 7-4-5 7-0-13 5-3-12 M18AHS 6x14 👟 6 4x5 ≠ 3x4 👟 4x8 🚅 4x8 👟 12 5 5 7 <sub>8</sub> 4 4x5 🚅 Ś 3 0-0-6 2x4 🞜 3x4 🚅 9 2 10 16 8-1 ې 11-10-11 è 15 19 17 13 X 3x4= 18 20 21 12 6x8= 5x8 II 6x8= 5x12= 4x8= 3x4= 3x10= 2x4 🛛 20-0-0 30-1-8 39-8-14 4-6-11 9-8-8 14-1-14 4-6-11 5-1-13 4-5-6 5-10-2 10-1-8 9-7-6

Scale = 1:69

| oading                               | (20)   | Cupating  | 2-0-0                                  |   | CSI   |   | DEFL   | in                            | ( aa)          | l/defl | L/d | PLATES           | GRIP             |
|--------------------------------------|--|---|--|---|---|---|--|-------------------------------|----------------|--------|-----|------------------|------------------|
| CLL (roof)                           | (psf)<br>25.0  | Spacing<br>Plate Grip DOL   | 2-0-0<br>1.15                          |   | TC  | 0.74  | Vert(LL)   | in<br>-0 31                   | (loc)<br>12-13 | >751   | 360 | MT20             | 197/144          |
| CDL                                  | 10.0   | Lumber DOL  | 1.15                                   |   | BC  | 0.74  | Vert(CT)   |                               | 12-13          | >431   | 240 | M18AHS           | 142/136          |
| CLL                                  | 0.0*   | Rep Stress Incr   | YES                                    |   | WB  | 0.77  | Horz(CT)   | -0.10                         | 13             | n/a    | n/a |                  | 112/100          |
| CDL                                  | 10.0   | Code  |  | 8/TPI2014   | Matrix-S  | 0   | Wind(LL)   | 0.09                          | 12-13          | >999   | 240 | Weight: 157 lb   | FT = 10%         |
| JMBER<br>DP CHORD<br>DT CHORD<br>EBS | 2x4 SPF No.2 *Exce<br>2x4 SPF No.2 *Exce<br>13-11:2x4 SPF 2400<br>2x3 SPF No.2 *Exce<br>11-10:2x6 SP 2400F | ppt* 4-6:2x6 SPF No.<br>ppt* 17-3:2x3 SPF No<br>)F 2.0E<br>ppt* 19-1:2x4 SPF No | 2)<br>.2<br>o.2,<br>o.2,<br>o.2,<br>3) | Wind: ASCE<br>Vasd=91mp<br>II; Exp C; Er<br>and right exp<br>Lumber DOI<br>All plates are | i 7-16; Vult=115mp<br>h; TCDL=6.0psf; E<br>lclosed; MWFRS (<br>bosed ; end vertica<br>L=1.60 plate grip E<br>e MT20 plates unle<br>as been designed | CDL=6.<br>envelope<br>al left and<br>ODL=1.6<br>ess other | ond gust)<br>Opsf; h=25ft;<br>e); cantilever<br>l right expose<br>)<br>wise indicate | Cat.<br>· left<br>.ed;<br>ed. |                |        | 2.0 |                  |                  |
|                                      |  | athing disactly applie  | ,                                      |   | ad nonconcurrent  |   |  |                               |                |        |     |                  |                  |
| OP CHORD                             | Structural wood shea<br>4-6-6 oc purlins, exc  |   | 5)                                     | * This truss  | has been designed   | d for a liv   | e load of 20.  |                               |                |        |     |                  |                  |
| BOT CHORD                            | Rigid ceiling directly<br>bracing, Except:<br>6-0-0 oc bracing: 14   | applied or 10-0-0 or  |  | 3-06-00 tall chord and a  | m chord in all area<br>by 2-00-00 wide w<br>ny other members  | ill fit betv<br>, with BC                                 | veen the bott<br>DL = 10.0ps   | sf.                           |                |        |     |                  |                  |
| Row at midp                          | •  |   | 6)                                     |   | assumed to be: J  |   |  | oint                          |                |        |     |                  |                  |
| EBS                                  |  | 5-14, 8-13  | 7)                                     |   | 0F 2.0E , Joint 11<br>ler(s) for truss to tr  |   |  |                               |                |        |     |                  |                  |
| ACTIONS                              | 19=0-3-8<br>Max Horiz 19=77 (LC<br>Max Uplift 11=-50 (L  | C 9), 19=-35 (LC 8)   | ,<br>8)<br>9)                          | Provide med<br>bearing plate<br>19 and 50 lb  | chanical connection<br>capable of withst<br>uplift at joint 11.<br>designed in accor  | n (by oth<br>anding 3                                     | ers) of truss<br>5 lb uplift at  |                               |                |        |     |                  |                  |
|                                      | Max Grav 11=766 (L<br>19=813 (L  |   | ; 2),                                  |   | Residential Code  |   |  | and                           |                |        |     |                  |                  |
| ORCES                                | (lb) - Maximum Com<br>Tension  | ,   | L                                      | R802.10.2 a<br>DAD CASE(S)  | nd referenced star<br>Standard  | ndard Ar  | ISI/TPI 1.   |                               |                |        |     |                  |                  |
| OP CHORD                             |  | 9, 8-9=-874/97,   | /94,                                   |   |   |   |  |                               |                |        |     | TATE OF M        | AISSO            |
| OT CHORD                             | 18-19=-91/327, 17-1<br>3-16=0/418, 15-16=-<br>13-14=-1468/40, 6-1<br>12-13=-13/467, 11-1                   | -85/1071, 14-15=-50<br>4=-772/5,  |  |   |   |   |  |                               |                |        |     | ST SCOTT<br>SEVI |                  |
| EBS                                  | 2-16=-242/29, 3-15=<br>5-14=-991/100, 8-13<br>9-12=-418/138, 1-18<br>16-18=-118/1198                       | -722/81, 5-15=0/622<br>8=-987/127, 8-12=0/6                                     | 640,                                   |   |   |   |  |                               |                |        | E C | PE-2001          | Servera<br>18807 |
| DTES                                 |  |   |  |   |   |   |  |                               |                |        | N   | The second       | 12A              |
| Unbalance                            | ed roof live loads have  | been considered for   | r                                      |   |   |   |  |                               |                |        | 1   | SSIONA           | ENO'S            |
| مامم مامل                            |  |   |  |   |   |   |  |                               |                |        |     | NE TINTA         | TIN              |

Unbalanced roof live loads have been considered for this design.

April 10,2024

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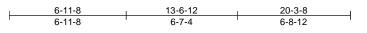
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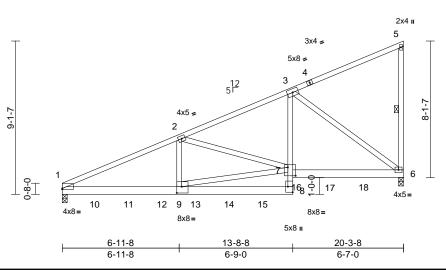


Page: 1

| Job     | Truss | Truss Type       | Qty | Ply | Lot 166 HT               |           |
|---------|-------|------------------|-----|-----|--------------------------|-----------|
| B240067 | B6    | Monopitch Girder | 1   | 4   | Job Reference (optional) | 164780433 |

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. Tue Apr 09 09:18:04 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





#### Scale = 1:68.5

Plate Offsets (X, Y): [1:Edge,0-0-10], [7:0-5-8,0-6-0], [8:Edge,0-3-8], [9:0-3-8,0-4-8]

|                     | (, . ). [=.9=,= =                              | ,,,,,, .   |           | -],[,         | -1   |            |                |         |       |        |         |                                       |                                       |
|---------------------|--|--|-----------|---------------|--|------------|----------------|---------|-------|--------|---------|---------------------------------------|---------------------------------------|
| Loading             | (psf)  | Spacing  | 2-0-0     |               | csi  |            | DEFL           | in      | (loc) | l/defl | L/d     | PLATES                                | GRIP                                  |
| TCLL (roof)         | 25.0   | Plate Grip DOL   | 1.15      |               | тс   | 0.79       | Vert(LL)       | -0.14   | 1-9   | >999   | 360     | MT20                                  | 197/144                               |
| TCDL                | 10.0   | Lumber DOL   | 1.15      |               | BC   | 0.97       | Vert(CT)       | -0.24   | 8-9   | >999   | 240     |                                       |                                       |
| BCLL                | 0.0*   | Rep Stress Incr  | NO        |               | WB   | 0.88       | Horz(CT)       | 0.06    | 6     | n/a    | n/a     |                                       |                                       |
| BCDL                | 10.0   | Code   | IRC201    | 8/TPI2014     | Matrix-S                                   |            | Wind(LL)       | 0.07    | 1-9   | >999   | 240     | Weight: 443 lb                        | FT = 10%                              |
| LUMBER<br>TOP CHORD |  | pt* 1-4:2x4 SPF 210  | 2)<br>00F | except if not | e considered equa<br>ed as front (F) or    | back (B)   | face in the LO |         |       |        | -833 (I | B), 10=-1456 (B),                     |                                       |
| BOT CHORD           |  |  | F         | provided to a | ction. Ply to ply c<br>distribute only loa |            |                |         |       |        |         | 13=-1460 (B), 14<br>(B), 17=-825 (B), | I=-1460 (B), 15=-145<br>, 18=-825 (B) |
|                     | No.2, 7-6:2x6 SPF N                            | lo.2   | 3)        |               | wise indicated.                            | nh (2 ag   | and quat)      |         |       |        |         |                                       |                                       |
| WEBS                | 2x4 SPF No.2                                   |  | 3)        |               | 7-16; Vult=115m<br>h; TCDL=6.0psf;         |            |                | Cat     |       |        |         |                                       |                                       |
|                     | Other strengthere and all a                    | - the second |           |               | iclosed; MWFRS                             |            |                |         |       |        |         |                                       |                                       |
| TOP CHORD           | Structural wood sheat<br>6-0-0 oc purlins, exe |  | a or      |               | posed ; end vertic                         |            |                |         |       |        |         |                                       |                                       |
| BOT CHORD           |  |  |           |               | _=1.60 plate grip                          |            |                | ,       |       |        |         |                                       |                                       |
|                     | bracing.                                       | applied of 10-0-0 00   | ,<br>     | This truss ha | as been designed                           | for a 10.  | 0 psf bottom   |         |       |        |         |                                       |                                       |
| NEBS                |  | 5-6  |           | chord live lo | ad nonconcurrent                           | t with any | other live loa | ads.    |       |        |         |                                       |                                       |
| REACTIONS           |  |  | 5)        |               | has been designe                           |            |                | 0psf    |       |        |         |                                       |                                       |
|                     | Max Horiz 1=278 (LC                            |  |           |               | m chord in all are                         |            |                |         |       |        |         |                                       |                                       |
|                     | Max Uplift 1=-452 (L                           | ,  |           |               | by 2-00-00 wide v                          |            | veen the bott  | om      |       |        |         |                                       |                                       |
|                     | Max Grav 1=8429 (L                             | ,, , , ,   | 13)       |               | ny other member                            |            |                |         |       |        |         |                                       |                                       |
| ORCES               | (lb) - Maximum Com                             | <i>,.</i>  | · 0)      |               | are assumed to b                           |            |                | 4.0     |       |        |         |                                       |                                       |
| ONCLO               | Tension  | pression/maximum   | 7)        |               | chanical connection<br>e capable of withe  |            |                |         |       |        |         |                                       |                                       |
| TOP CHORD           |  | =-8383/442   |           |               | uplift at joint 1.                         | stanuing a | bog in uplin a | t joint |       |        |         |                                       |                                       |
|                     | 3-5=-214/59, 5-6=-18                           |  | 8)        |               | designed in acco                           | rdance w   | ith the 2018   |         |       |        |         |                                       |                                       |
| BOT CHORD           |  |  |           |               | Residential Code                           |            |                | and     |       |        |         |                                       |                                       |
|                     | 3-7=-385/8539, 6-7=                            |  | - ,       |               | nd referenced sta                          |            |                |         |       |        |         |                                       |                                       |
| WEBS                | 2-9=-85/4563, 7-9=-                            | 636/12921,   | 9)        |               | r other connection                         |            |                |         |       |        |         |                                       | ~                                     |
|                     | 2-7=-6279/279, 3-6=                            | -9588/570  | - /       |               | ficient to support                         |            |                | 1798    |       |        |         | Con                                   | ADD                                   |
| NOTES               |  |  |           | Ib down and   | 231 lb up at 1-1                           | 1-4, 1812  | Ib down and    | 52      |       |        |         | A OF I                                | MIS C                                 |
| 1) 4-ply truss      | s to be connected toget                        | ther with 10d  |           | lb up at 3-1  | 1-4, 1812 lb dowr                          | n and 52 l | bupat 5-11-    | -4,     |       |        | 1       | TATE OF M                             | N.O.                                  |
| (0.131"x3           | ") nails as follows:                           |  |           |               | n and 51 lb up at                          |            |                | and     |       |        | B       | SCOT                                  | N CAN                                 |
| Top chord           | is connected as follows                        | : 2x4 - 1 row at 0-6-0   | 0         |               | 9-11-4, 1710 lb do                         |            |                |         |       |        | R       | S DOOL                                |                                       |
| OC.                 |  |  |           |               | 61 lb down and 18                          |            |                |         |       |        | 6       | SEVI                                  |                                       |
|                     | nords connected as follo                       |  |           |               | 2 lb up at 15-11-4                         |            |                |         |       |        | N IX    |                                       |                                       |
|                     | at 0-4-0 oc, 2x4 - 1 ro                        |  |           |               | 11-4, and 1003 lb                          |            |                |         |       |        | ad      | h H                                   | $\mathbf{X} = \mathbf{X}$             |
|                     | nected as follows: 2x4 -                       |  |           |               | ottom chord. Th                            |            |                | such    |       | _      | ×       | NON INA                               | K Perul                               |
|                     | w/ 1/2" diam. bolts (As                        |  |           |               | device(s) is the re                        | sponsibili | ty of others.  |         |       |        | 17      | PE-2001                               | 018807 188                            |
| center of t         | the member w/washers                           | at 4-0-0 oc.   | L         | DAD CASE(S)   | Standard                                   |            |                |         |       |        | N.      | -2001                                 | 10001 59                              |

LOAD CASE(S) Standard Dead + Roof Live (balanced): Lumber Increase=1.15, 1) Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-5=-70, 1-8=-20, 6-7=-20

SIONAL April 10,2024

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| Job     | Truss | Truss Type             | Qty | Ply | Lot 166 HT               |           |
|---------|-------|------------------------|-----|-----|--------------------------|-----------|
| B240067 | C1    | Common Supported Gable | 1   | 1   | Job Reference (optional) | 164780434 |

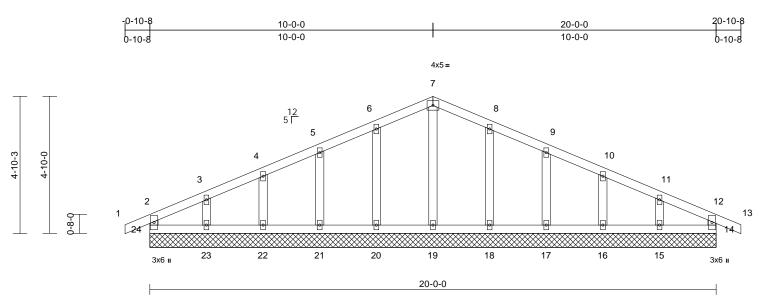
Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. Tue Apr 09 09:18:04 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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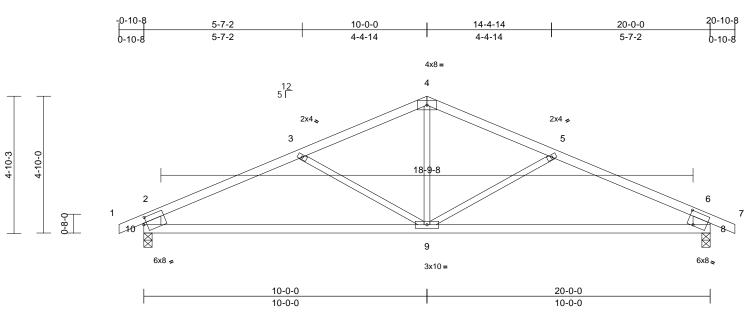
Scale = 1:40.7

|  |   |   |  |   |   | -  |   |  |  |                       |                             |                          |                                 |                                    |
|--|---|---|--|---|---|--|---|--|--|-----------------------|-----------------------------|--------------------------|---------------------------------|------------------------------------|
| 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   | <b>CSI</b><br>TC<br>BC<br>WB<br>Matrix-R   | 0.07<br>0.02<br>0.05  | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)   | in<br>n/a<br>n/a<br>0.00                             | (loc)<br>-<br>-<br>14 | 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: 75 lb | <b>GRIP</b><br>197/144<br>FT = 10% |
|  | 6-0-0 oc<br>Rigid ceil<br>bracing.<br>(size)<br>Max Horiz<br>Max Uplift | No.2<br>No.2<br>No.2<br>I wood she<br>purlins, ex<br>ing directly<br>14=20-0-(<br>20=20-0-(<br>20=20-0-(<br>23=20-0-(<br>24=65 (L(<br>14=-31 (L<br>18=-50 (L<br>23=-67 (L<br>14=-161 (L<br>16=184 (L<br>18=191 (L<br>18=191 (L<br>20=191 (L | C 5), 15=-60 (LC 9),<br>C 9), 17=-49 (LC 9),<br>C 9), 20=-51 (LC 8),<br>C 8), 22=-43 (LC 8),<br>C 8), 24=-31 (LC 4),<br>C 22), 15=165 (LC 1),<br>C 22), 17=177 (LC 1),<br>C 22), 19=168 (LC 1),<br>C 21), 21=177 (LC 1),<br>C 21), 23=165 (LC 1),<br>C 21), 23=165 (LC 1), | 1)<br>2)<br>d or<br>3)<br>0-0,<br>4)<br>0-0,<br>5)<br>6)<br>7)<br>8)<br>9)<br>),<br>1)<br>),<br>1)<br>(),<br>1(),<br>11 | <ul> <li>this design.</li> <li>Wind: ASCE</li> <li>Vasd=91mpl</li> <li>II; Exp C; En</li> <li>cantilever lef</li> <li>right exposed</li> <li>Truss design</li> <li>on truss design</li> <li>on consult qu</li> <li>All plates are</li> <li>Gable requir</li> <li>Truss to be f</li> <li>braced agair</li> <li>Gable studs</li> <li>This truss ha</li> <li>chord live loa</li> <li>* This truss ha</li> <li>on the bottor</li> <li>3-06-00 tall b</li> <li>chord and ar</li> <li>All bearings</li> <li>Provide mec</li> <li>bearing plate</li> </ul> | roof live loads have<br>7-16; Vult=115r<br>n; TCDL=6.0psf;<br>closed; MWFRS<br>t and right exposed<br>t umber DOL=<br>ned for wind loar<br>dis exposed to with<br>a lifted building control<br>2x4 MT20 unle<br>es continuous bo<br>2x4 MT20 unle<br>es continuous bo<br>a landustry Gable<br>talified building control<br>paced at 2-0-0<br>is been designed<br>an onconcurrent<br>as been designed<br>no chord in all are<br>by 2-00-00 wide<br>yo other member<br>are assumed to<br>hanical connection<br>e capable of with<br>the state of the state | nph (3-sec<br>BCDL=6.<br>5 (envelope<br>sed; end vi-<br>1.60 plate<br>ds in the p<br>vind (norm<br>End Deta<br>designer a:<br>ss otherwi-<br>bttom choro<br>orm one fac<br>nent (i.e. c<br>oc.<br>d for a 10.<br>tt with any<br>ed for a liv<br>as where<br>will fit betw<br>'s.<br>be SPF N:<br>on (by oth<br>standing 3 | cond gust)<br>Opsf; h=25ft; (<br>e) exterior zor<br>vertical left an<br>or grip DOL=1.<br>lane of the tr.<br>al to the face<br>is as applical<br>is as a applical<br>is a a a a a a a a a a a a a a a<br>a a a a | Cat.<br>ne;<br>d<br>60<br>sss<br>),<br>ble,<br>PI 1. |                       |                             |                          |                                 |                                    |
| FORCES   | Tension<br>2-24=-14<br>3-4=-42/6<br>6-7=-30/1<br>9-10=-27               | kimum Com<br>2/42, 1-2=0<br>60, 4-5=-27<br>122, 7-8=-3  | pression/Maximum<br>//27, 2-3=-64/49,<br>/81, 5-6=-26/102,<br>0/116, 8-9=-26/83,<br>27/44, 11-12=-48/33  | 3,  | uplift at joint<br>23, 50 lb upli<br>uplift at joint<br>2) This truss is<br>International<br>R802.10.2 at   | ift at joint 14, 51<br>21, 43 lb uplift a<br>ft at joint 18, 49<br>16 and 60 lb upl<br>designed in acco<br>Residential Cod<br>nd referenced st   | t joint 22, (<br>lb uplift at<br>ift at joint<br>ordance w<br>le sections   | 67 lb uplift at j<br>joint 17, 45 lk<br>15.<br>ith the 2018<br>\$ R502.11.1 a  | joint<br>D   |                       |                             |                          | STATE OF A                      |                                    |
| BOT CHORD                                      | 23-24=-1<br>20-21=-1  | 0/58, 22-23<br>0/58, 19-20<br>0/58, 16-17   | =-10/58, 21-22=-10/5<br>=-10/58, 18-19=-10/5<br>=-10/58, 15-16=-10/5   | 58,<br>58,  | OAD CASE(S)   | Standard   |   |  |  |                       |                             | No.                      | PE-2001                         | 15B                                |
| WEBS   | 4-22=-14  | 4/70, 3-23=   | 151/75, 5-21=-137/72<br>-126/82, 8-18=-151/7<br>=-144/70, 11-15=-12  | 74,   |   |  |   |  |  |                       |                             |                          | Apri                            | L EN022                            |

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| Job     | Truss | Truss Type | Qty | Ply | Lot 166 HT               |           |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B240067 | C2    | Common     | 1   | 1   | Job Reference (optional) | 164780435 |

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries. Inc. Tue Apr 09 09:18:04 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:40.7

#### Plate Offsets (X, Y): [8:0-2-10,0-5-10], [10:0-1-5,0-2-13]

|   | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,  | oj, [1010 1 0,0 2 10]        |                         |   |                          |                             |         |       |        |     |               |          |
|---|--|------------------------------|-------------------------|---|--------------------------|-----------------------------|---------|-------|--------|-----|---------------|----------|
| 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  | 0.84                     | Vert(LL)                    | -0.17   | 9-10  | >999   | 360 | MT20          | 197/144  |
| TCDL  | 10.0   | Lumber DOL                   | 1.15                    | BC  | 0.78                     | Vert(CT)                    | -0.36   | 9-10  | >642   | 240 |               |          |
| BCLL  | 0.0*   | Rep Stress Incr              | YES                     | WB  | 0.21                     | Horz(CT)                    | 0.04    | 8     | n/a    | n/a |               |          |
| BCDL  | 10.0   | Code                         | IRC2018/TPI2            | 014 Matrix-S  |                          | Wind(LL)                    | 0.07    | 9     | >999   | 240 | Weight: 63 lb | FT = 10% |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS  | 2x4 SPF No.2<br>2x4 SPF No.2<br>2x3 SPF No.2 *Exce   | pt* 10-2,8-6:2x8 SP          | bear<br>10 a<br>7) This | ide mechanical connecti<br>ing plate capable of with<br>nd 139 lb uplift at joint 8<br>truss is designed in acc | nstanding 1<br>ordance w | 39 lb uplift a ith the 2018 | t joint |       |        |     |               |          |
|   | 2400F 2.0E   |                              |                         | national Residential Coc  |                          |                             | and     |       |        |     |               |          |
| BRACING   |  |                              |                         | 2.10.2 and referenced st  | tandard AN               | ISI/TPI 1.                  |         |       |        |     |               |          |
| TOP CHORD   | Structural wood she<br>3-4-15 oc purlins, et   | xcept end verticals.         |                         | ASE(S) Standard   |                          |                             |         |       |        |     |               |          |
| BOT CHORD   | Rigid ceiling directly<br>bracing.   | applied or 10-0-0 or         |                         |   |                          |                             |         |       |        |     |               |          |
|   | (size) 8=0-3-8, 1<br>Max Horiz 10=63 (LC<br>Max Uplift 8=-139 (L<br>Max Grav 8=955 (LC   | C 12)<br>C 9), 10=-139 (LC 8 | )                       |   |                          |                             |         |       |        |     |               |          |
| FORCES  | (lb) - Maximum Com   | pression/Maximum             |                         |   |                          |                             |         |       |        |     |               |          |
| TOP CHORD   | Tension<br>1-2=0/32, 2-3=-1412<br>4-5=-1096/128, 5-6=<br>2-10=-854/187, 6-8=   | -1412/214, 6-7=0/32          | ,                       |   |                          |                             |         |       |        |     |               |          |
| BOT CHORD   | ,  |                              |                         |   |                          |                             |         |       |        |     |               |          |
| WEBS  | 4-9=0/473, 5-9=-317  | 7/199, 3-9=-317/199          |                         |   |                          |                             |         |       |        |     |               |          |
| NOTES   |  |                              |                         |   |                          |                             |         |       |        |     |               |          |
| 1) Unbalance  | ed roof live loads have  | been considered for          | r                       |   |                          |                             |         |       |        |     |               | an       |
| <ol> <li>Wind: ASC<br/>Vasd=91m<br/>II; Exp C; I<br/>cantilever<br/>right exposite</li> </ol> | this design.<br>Wind: ASCE 7-16; Vult=115mph (3-second gust)<br>Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.<br>II; Exp C; Enclosed; MWFRS (envelope) exterior zone;<br>cantilever left and right exposed; end vertical left and<br>right exposed; Lumber DOL=1.60 plate grip DOL=1.60 |                              |                         |   |                          |                             |         |       |        |     |               |          |

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





April 10,2024

NUMBER

PE-2001018807

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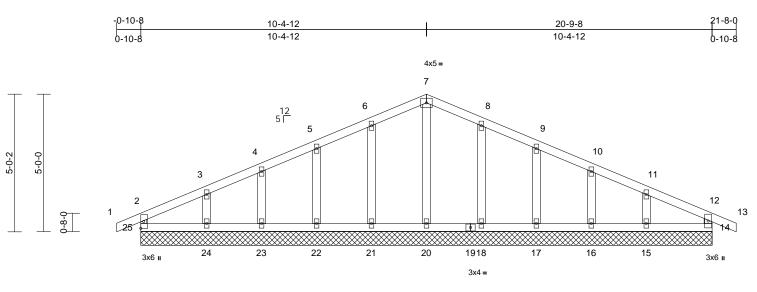
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 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not besign value for use only with with twit even connectors. This design is based only upon parameters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

| Job     | Truss | Truss Type             | Qty | Ply | Lot 166 HT               |           |
|---------|-------|------------------------|-----|-----|--------------------------|-----------|
| B240067 | D1    | Common Supported Gable | 1   | 1   | Job Reference (optional) | 164780436 |

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20-9-8

| 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                                    | 0.07          | Vert(LL)       | n/a   | -     | n/a    | 999 | MT20   | 197/144  |
| TCDL                   | 10.0                         | Lumber DOL                                     | 1.15  |                                  | BC                                    | 0.03          | Vert(CT)       | n/a   | -     | n/a    | 999 |  |          |
| BCLL                   | 0.0*                         | Rep Stress Incr                                | YES   |                                  | WB                                    | 0.05          | Horz(CT)       | 0.00  | 14    | n/a    | n/a |  |          |
| BCDL                   | 10.0                         | Code   |       | 18/TPI2014                       | Matrix-R                              |               | - (- )         |       |       |        |     | Weight: 79 lb  | FT = 10% |
| LUMBER                 |                              | •  |       | WEBS                             | 7-20=-121/0, 6-2 <sup>-</sup>         | 1 1 5 1 / 7 / | 5 00 100/      | 70    |       |        |     |  |          |
|                        | 2v4 CDE No 2                 |  |       |                                  | 4-23=-138/66, 3-2                     |               |                |       |       |        |     |  |          |
| TOP CHORD<br>BOT CHORD | 2x4 SPF No.2<br>2x4 SPF No.2 |  |       |                                  | 9-17=-139/73, 10                      |               |                |       |       |        |     |  |          |
| WEBS                   | 2x3 SPF No.2 *Exce           | DE 14 10:0v4 CDE                               |       | NOTES                            | 5 17 - 100/10, 10                     | 10= 100       | 07, 11 10- 1   | 40/01 |       |        |     |  |          |
| WEDS                   | 2400F 2.0E                   | ept 14-12.2x4 SFF                              | -     |                                  | and the lands have                    |               |                | -     |       |        |     |  |          |
| OTHERS                 | 2x4 SPF No.2                 |  |       | ,                                | roof live loads ha                    | ave been      | considered to  | or    |       |        |     |  |          |
|                        | 2X4 3FF NU.2                 |  |       | this design.                     | 7-16; Vult=115m                       | anh (2 ag     | and quat)      |       |       |        |     |  |          |
| BRACING                | Other strengthere and all a  | a da ba an albara a da si ana a ba a d         |       |                                  | h; TCDL=6.0psf;                       |               |                | Cat   |       |        |     |  |          |
| TOP CHORD              |                              | athing directly applied                        | or    |                                  | closed; MWFRS                         |               |                |       |       |        |     |  |          |
| BOT CHORD              | 6-0-0 oc purlins, ex         | applied or 10-0-0 oc                           |       |                                  | t and right expos                     |               |                |       |       |        |     |  |          |
| BUT CHURD              | bracing.                     | applied of 10-0-0 oc                           |       |                                  | d; Lumber DOL=                        |               |                |       |       |        |     |  |          |
| DEACTIONS              | 0                            |  |       |                                  | ned for wind load                     |               |                |       |       |        |     |  |          |
| REACTIONS              |                              | 8, 15=20-9-8, 16=20-9<br>8, 18=20-9-8, 20=20-9 | -0,   |                                  | ids exposed to w                      |               |                |       |       |        |     |  |          |
|                        |                              | 8, 22=20-9-8, 23=20-9<br>8, 22=20-9-8, 23=20-9 | ·     |                                  | d Industry Gable                      |               |                |       |       |        |     |  |          |
|                        |                              | 8, 22=20-9-8, 23=20-9<br>8, 25=20-9-8          | -0,   |                                  | alified building d                    |               |                |       |       |        |     |  |          |
|                        | Max Horiz 25=69 (L0          |  | 4     |                                  | 2x4 MT20 unles                        |               |                |       |       |        |     |  |          |
|                        | Max Uplift 14=-34 (L         |  |       |                                  | es continuous bo                      |               |                |       |       |        |     |  |          |
|                        |                              | .C 9), 17=-49 (LC 9),                          | (     | 5) Truss to be f                 | ully sheathed fro                     | m one fac     | e or securely  | ,     |       |        |     |  |          |
|                        |                              | .C 9), 21=-50 (LC 8),                          |       | braced agair                     | nst lateral movem                     | nent (i.e. c  | iagonal web)   |       |       |        |     |  |          |
|                        |                              | .C 8), 23=-41 (LC 8),                          |       | 7) Gable studs                   | spaced at 2-0-0                       | oc.           | с ,            |       |       |        |     |  |          |
|                        |                              | .C 8), 25=-32 (LC 4)                           | 8     | <ol><li>This truss has</li></ol> | as been designed                      | for a 10.     | 0 psf bottom   |       |       |        |     |  |          |
|                        |                              | LC 1), 15=192 (LC 22)                          |       | chord live loa                   | ad nonconcurrent                      | t with any    | other live loa | ids.  |       |        |     |  |          |
|                        |                              | LC 1), 17=179 (LC 1),                          |       | <ol> <li>This truss I</li> </ol> | nas been designe                      | ed for a liv  | e load of 20.0 | Opsf  |       |        |     |  |          |
|                        | 18=191 (l                    | LC 22), 20=161 (LC 1)                          | ,     |                                  | n chord in all are                    |               | 0              |       |       |        |     |  |          |
|                        | 21=191 (l                    | LC 21), 22=179 (LC 1)                          | ,     |                                  | oy 2-00-00 wide v                     |               | veen the bott  | om    |       |        |     |  | The      |
|                        | 23=176 (l                    | LC 21), 24=197 (LC 2'                          | 1),   |                                  | ny other member                       |               | _              |       |       |        |     | OF I   | ALL ALL  |
|                        | 25=175 (l                    | LC 1)  |       |                                  | are assumed to b                      |               |                |       |       |        |     | A FUTI   | VIIS'S   |
| FORCES                 | (lb) - Maximum Corr          | npression/Maximum                              |       |                                  | hanical connection                    |               |                |       |       |        | 4   | THE OF I   | N.S.     |
|                        | Tension                      |  |       |                                  | capable of with                       |               |                |       |       |        | H   | SCOT   | TM YEN   |
| TOP CHORD              | 2-25=-155/46, 1-2=0          | 0/26, 2-3=-71/49,                              |       |                                  | ift at joint 14, 50 l                 |               |                |       |       |        | H   | SEV  |          |
|                        | 3-4=-44/67, 4-5=-35          |  |       |                                  | 22, 41 lb uplift at                   |               |                |       |       |        | Re  |  |          |
|                        | 6-7=-37/129, 7-8=-3          |  |       |                                  | ift at joint 18, 49 l                 |               |                | 0     |       |        | X   | 1  |          |
|                        |                              | =-35/52, 11-12=-59/36                          | , ,   |                                  | 16 and 66 lb upli<br>designed in acco |               |                |       |       |        | K   | cott .   | Server?  |
|                        | 12-13=0/27, 12-14=           |  |       |                                  | Residential Code                      |               |                | nd    |       | -      | 4-  | NUM  | BER A    |
| BOT CHORD              | 24-25=-8/58, 23-24=          | , , ,  |       |                                  | nd referenced sta                     |               |                | inu   |       |        | N2  | PE-2001  | 018807   |
|                        | 21-22=-8/58, 20-21=          | , , ,  |       |                                  |                                       | anuaru Ar     | SUIFII.        |       |       |        | N   | The second secon | 120      |
|                        | 17-18=-8/58, 16-17=          | =-8/58, 15-16=-8/58,                           |       | LOAD CASE(S)                     | Sianuaru                              |               |                |       |       |        | Y   | 23.04  | NON B    |
|                        | 14-15=-8/58                  |  |       |                                  |                                       |               |                |       |       |        |     | UNIONIA  | IENA     |
|                        |                              |  |       |                                  |                                       |               |                |       |       |        |     | ESSIONA  |          |

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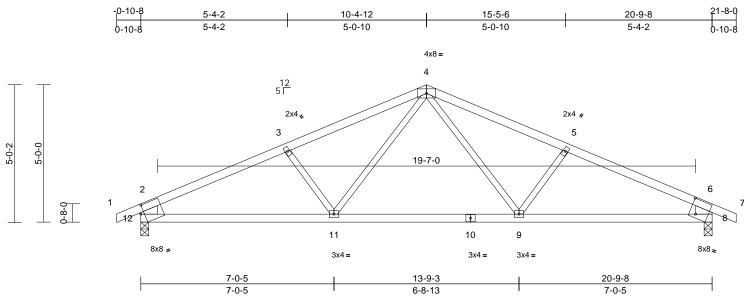
Page: 1



| Job     | Truss | Truss Type | Qty | Ply | Lot 166 HT               |           |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B240067 | D2    | Common     | 4   | 1   | Job Reference (optional) | 164780437 |

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. Tue Apr 09 09:18:05 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

# 05 Page: 1



Scale = 1:41.9

#### Plate Offsets (X, Y): [8:0-2-13,0-6-6], [12:0-1-8,0-3-9]

| - 1010 0110010 (1   |   | ],[:=:0 : 0,0 0 0]               |               |   |  |   |   |             |               |                |            |                |                        |
|---|---|----------------------------------|---------------|---|--|---|---|-------------|---------------|----------------|------------|----------------|------------------------|
| Loading<br>TCLL (roof)  | (psf)<br>25.0   | <b>Spacing</b><br>Plate Grip DOL | 2-0-0<br>1.15 |   | CSI<br>TC  | 0.91                                    | <b>DEFL</b><br>Vert(LL)                       | in<br>-0.16 | (loc)<br>9-11 | l/defl<br>>999 | L/d<br>360 | PLATES<br>MT20 | <b>GRIP</b><br>197/144 |
| TCDL  | 10.0  | Lumber DOL                       | 1.15          |   | BC   | 0.63                                    | Vert(CT)                                      | -0.30       | 9-11          | >811           | 240        |                |                        |
| BCLL  | 0.0*  | Rep Stress Incr                  | YES           |   | WB   | 0.14                                    | Horz(CT)                                      | 0.04        | 8             | n/a            | n/a        |                |                        |
| BCDL  | 10.0  | Code                             | IRC2018       | B/TPI2014   | Matrix-S   |   | Wind(LL)                                      | 0.10        | 9-11          | >999           | 240        | Weight: 67 lb  | FT = 10%               |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS                              | 2x4 SPF No.2<br>2x4 SPF No.2<br>2x3 SPF No.2 *Exce<br>2400F 2.0E  | pt* 12-2,8-6:2x8 SP              | 6)<br>9 7)    | bearing plate<br>12 and 143 I<br>This truss is<br>International | hanical connecti<br>capable of with<br>b uplift at joint 8.<br>designed in acco<br>Residential Coc | standing 1<br>ordance wi<br>le sections | 43 lb uplift a<br>ith the 2018<br>R502.11.1 a | t joint     |               |                |            |                |                        |
| BRACING   |   |                                  |               | R802.10.2 a   | nd referenced st   | andard AN                               | ISI/TPI 1.                                    |             |               |                |            |                |                        |
| TOP CHORD   | Structural wood she   | athing directly applie           | ed or LC      | DAD CASE(S)   | Standard   |   |   |             |               |                |            |                |                        |
| BOT CHORD   | 2-2-0 oc purlins, ex<br>Rigid ceiling directly<br>bracing.  |                                  | с             |   |  |   |   |             |               |                |            |                |                        |
|   | (size) 8=0-3-8, 1<br>Max Horiz 12=66 (LC<br>Max Uplift 8=-143 (L<br>Max Grav 8=991 (LC  | C 12)<br>C 9), 12=-143 (LC 8     |               |   |  |   |   |             |               |                |            |                |                        |
| FORCES  | (lb) - Maximum Com<br>Tension   | pression/Maximum                 |               |   |  |   |   |             |               |                |            |                |                        |
| TOP CHORD   | 1-2=0/32, 2-3=-1526<br>4-5=-1332/196, 5-6=<br>2-12=-900/177, 6-8=   | -1526/209, 6-7=0/3               | ,             |   |  |   |   |             |               |                |            |                |                        |
| BOT CHORD   | 11-12=-195/1312, 9-<br>8-9=-129/1312  | 11=-54/975,                      |               |   |  |   |   |             |               |                |            |                |                        |
| WEBS  | 4-9=-70/403, 5-9=-2<br>3-11=-260/176  | 60/176, 4-11=-70/40              | 03,           |   |  |   |   |             |               |                |            |                |                        |
| NOTES   |   |                                  |               |   |  |   |   |             |               |                |            | A              | - Den                  |
| this design<br>2) Wind: ASC<br>Vasd=91m<br>II; Exp C; I<br>cantilever | NOTES 1) Unbalanced roof live loads have been considered for<br>this design. 2) Wind: ASCE 7-16; Vult=115mph (3-second gust)<br>Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.<br>II; Exp C; Enclosed; MWFRS (envelope) exterior zone;<br>cantilever left and right exposed ; end vertical left and<br>right exposed; i end vertical left and |                                  |               |   |  |   |   |             |               |                |            |                |                        |

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

April 10,2024

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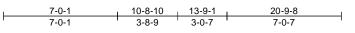
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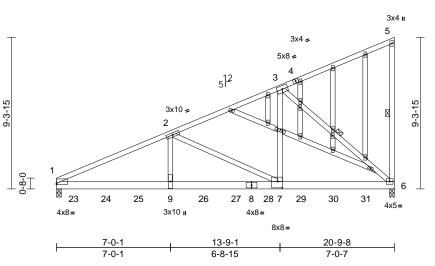
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 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 | b      | Truss | Truss Type | Qty | Ply | Lot 166 HT               |           |
|-----|--------|-------|------------|-----|-----|--------------------------|-----------|
| B2  | 240067 | D3    | GABLE      | 1   | 2   | Job Reference (optional) | 164780438 |

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. Tue Apr 09 09:18:05 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





#### Scale = 1:70.9 Plate Offsets (X, Y): [1:Edge,0-0-14], [7:0-3-8,0-4-12], [11:0-1-13,0-1-0]

CASE(S) section. Ply to ply connections have been

provided to distribute only loads noted as (F) or (B),

unless otherwise indicated.

| Loading<br>TCLL (roof)   | (psf)<br>25.0   | Spacing<br>Plate Grip DOL  | 2-0-0<br>1.15                         |   | CSI<br>TC   | 0.76  | DEFL<br>Vert(LL)   | in<br>-0.11   | (loc)<br>6-7 | l/defl<br>>999                   | L/d<br>360                               | PLATES<br>MT20                            | <b>GRIP</b><br>197/144                       |
|--|---|--|---------------------------------------|---|---|---|--|---|--------------|----------------------------------|--|---|--|
| TCDL   | 10.0  | Lumber DOL   | 1.15                                  |   | BC  | 0.58  | Vert(CT)   | -0.19   | 6-7          | >999                             | 240                                      | -   |  |
| BCLL   | 0.0*  | Rep Stress Incr  | NO                                    |   | WB  | 0.70  | Horz(CT)   | 0.04  | 6            | n/a                              | n/a                                      |   |  |
| BCDL   | 10.0  | Code   | IRC201                                | 8/TPI2014   | Matrix-S  |   | Wind(LL)   | 0.08  | 1-9          | >999                             | 240                                      | Weight: 265 lb                            | FT = 10%                                     |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>DTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>REACTIONS | 1.8E<br>2x6 SP 2400F 2.0E<br>2x4 SPF No.2<br>2x4 SPF No.2<br>Structural wood shea<br>5-8-7 oc purlins, exi<br>Rigid ceiling directly<br>bracing.<br>1 Row at midpt  | athing directly applie<br>cept end verticals.<br>applied or 10-0-0 oc<br>5-6, 3-6<br>j=0-3-8<br>2 22)<br>C 8), 6=-545 (LC 8) | 4)<br>ed or<br>; 5)<br>6)<br>7)<br>8) | Vasd=91mpl<br>II; Exp C; En<br>cantilever lef<br>right expose<br>Truss desig<br>only. For stu<br>see Standarr<br>or consult qu<br>All plates are<br>Gable studs<br>This truss ha<br>chord live loa<br>* This truss h<br>on the bottor<br>3-06-00 tall b | 7-16; Vult=115mp<br>1; TCDL=6.0psf; B<br>closed; MWFRS (it<br>t and right expose<br>4; Lumber DOL=1.<br>1ed for wind loads<br>1ds exposed to wind<br>1 Industry Gable E<br>alified building des<br>2x4 MT20 unless<br>spaced at 2-0-0 or<br>is been designed<br>fad nonconcurrent<br>vas been designed<br>n chord in all areas<br>by 2-00-00 wide wi<br>by other members. | CDL=6.0<br>envelope<br>d; end v<br>60 plate<br>in the p<br>id (norm<br>nd Deta<br>signer a:<br>otherwi<br>c.<br>or a 10.0<br>with any<br>l for a liv<br>s where | Opsf; h=25ft;<br>a) exterior zor<br>vertical left ar<br>grip DOL=1.<br>ane of the tru<br>al to the face<br>ils as applica<br>s per ANSI/TI<br>se indicated.<br>O psf bottom<br>other live loa<br>a rectangle | ne;<br>id<br>60<br>Jss<br>),<br>ble,<br>Pl 1.<br>Dpsf | Co           | oncentra<br>Vert: 9=<br>(B), 26= | 5=-70,<br>ited Lo:<br>-497 (I<br>-657 (I | 1-6=-20<br>ads (lb)<br>B), 23=-516 (B), 2 | 24=-497 (B), 25=-497<br>28=-703 (B), 29=-703 |
| FORCES<br>TOP CHORD  | (lb) - Maximum Com<br>Tension<br>1-2=-7229/905, 2-3=<br>5-6=-197/78   |  |                                       | All bearings<br>Provide mec<br>bearing plate  | are assumed to be<br>hanical connection<br>capable of withsta<br>uplift at joint 1.   | n (by oth   | ers) of truss t  |   |              |                                  |  |   |  |
| BOT CHORD  | 1-9=-931/6306, 7-9=<br>6-7=-447/3712  | ,  | 11                                    | ) This truss is   | designed in accord<br>Residential Code  |   |  | ind   |              |                                  |  |   |  |
| WEBS   | 2-9=-235/2323, 2-7=<br>3-7=-403/4435, 3-6=  |  | 12                                    |   | nd referenced star  |   |  |   |              |                                  |  | 0000                                      | 100  |
| NOTES  | 3-7=-403/4435, 3-6=-4917/678 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 516   |  |                                       |   |   |   |  |   |              |                                  |  | B.F. OF M                                 | AISS D                                       |
| (0.131"x3<br>Top chorc<br>oc.<br>Bottom ch<br>staggered<br>Web conr<br>2) All loads a                        | s to be connected toget<br>") nails as follows:<br>is connected as follows<br>nords connected as follows<br>at 0-9-0 oc.<br>hected as follows: 2x4 -<br>are considered equally<br>noted as front (F) or bar | s: 2x4 - 1 row at 0-9-(<br>ows: 2x6 - 2 rows<br>1 row at 0-9-0 oc.<br>applied to all plies,                                  |                                       | up at 3-0-12<br>lb down and<br>up at 9-0-12<br>lb down and<br>up at 15-0-1<br>17-0-12, and<br>bottom chore  | 99 lb up at 1-0-12<br>, 564 lb down and<br>90 lb up at 7-0-12<br>, 734 lb down and<br>63 lb up at 13-0-1<br>2, and 806 lb dow<br>806 lb down and<br>1. The design/sele<br>he responsibility o   | 90 lb up<br>2, 734 lb<br>72 lb up<br>2, 806 ll<br>n and 62<br>62 lb up<br>ection of   | at 5-0-12, 5<br>down and 72<br>at 11-0-12,<br>b down and 6<br>2 lb up at<br>at 19-0-12 c<br>such connect   | 564<br>2 lb<br>806<br>52 lb<br>50                     |              |                                  |  | STATE OF M<br>SCOTT<br>SEVI               | Renter                                       |

13) Studding applied to ply: 1(Front)

#### LOAD CASE(S) Standard

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

April 10,2024

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Page: 1

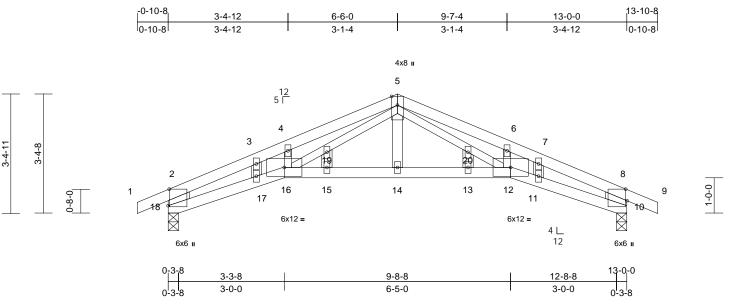


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| Job     | Truss | Truss Type | Qty | Ply | Lot 166 HT               |           |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B240067 | E1    | GABLE      | 1   | 1   | Job Reference (optional) | 164780439 |

#### Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. Tue Apr 09 09:18:05 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:32.7

# Plate Offsets (X, Y): [10:0-3-15,Edge], [18:0-5-10,Edge]

| -  |   |   | -                                     |   | 1   |  |   |  |                         |                               |                          |  |                        |
|--|---|---|---------------------------------------|---|---|--|---|--|-------------------------|-------------------------------|--------------------------|--|------------------------|
| 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   | 0.81<br>0.69<br>0.24   | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)  | in<br>-0.13<br>-0.24<br>0.17                     | (loc)<br>13<br>13<br>10 | l/defl<br>>999<br>>630<br>n/a | L/d<br>360<br>240<br>n/a | PLATES<br>MT20   | <b>GRIP</b><br>197/144 |
| BCDL   | 10.0  | Code  | IRC201                                | 8/TPI2014   | Matrix-S  |  | Wind(LL)  | 0.08   | 15-16                   | >999                          | 240                      | Weight: 47 lb  | FT = 10%               |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS | 2x4 SPF No.2<br>2x3 SPF No.2 *Exce<br>2400F 2.0E<br>2x4 SPF No.2<br>Structural wood she<br>3-2-15 oc purlins, e<br>Rigid ceiling directly<br>bracing. | athing directly applie<br>xcept end verticals.<br>applied or 10-0-0 oc<br>18=0-3-8<br>C 8)<br>C 9), 18=-98 (LC 8) | 4)<br>5)<br>d or 6)<br>7)<br>8)<br>9) | only. For sti<br>see Standar,<br>or consult qu<br>All plates are<br>Truss to be f<br>braced again<br>Gable studs<br>This truss ha<br>chord live loa<br>* This truss f<br>on the bottoo<br>3-06-00 tall is<br>chord and an<br>All bearings | ned for wind load:<br>dis exposed to wi<br>d Industry Gable I<br>alified building de<br>2x4 MT20 unles<br>ully sheathed fror<br>sst lateral movern<br>spaced at 2-0-0 c<br>is been designed<br>ad nonconcurrent<br>nas been designe<br>n chord in all arer<br>by 2-00-00 wide w<br>ay other members<br>are assumed to b<br>int(s) 18, 10 cons | nd (norm<br>End Deta<br>asigner a<br>s otherwin<br>n one face<br>ent (i.e. coc.<br>for a 10.<br>with any<br>d for a liv<br>as where<br>vill fit betw.<br>e SPF N | al to the face<br>ils as applica<br>s per ANSI/T<br>se indicated.<br>e or securely<br>liagonal web<br>0 psf bottom<br>other live loa<br>e load of 20.<br>a rectangle<br>ween the bott<br>0.2. | e),<br>able,<br>PI 1.<br>v<br>).<br>ads.<br>0psf |                         |                               |                          |  |                        |
| FORCES   | (lb) - Maximum Com  | pression/Maximum  |                                       |   | ANSI/TPI 1 angle  |  |   | lding  |                         |                               |                          |  |                        |
| TOP CHORD  | Tension<br>1-2=0/32, 2-3=-1417<br>4-5=-1301/233, 5-6=<br>6-7=-1319/142, 7-8=<br>2-18=-899/146, 8-10   | =-1301/202,<br>=-1422/132, 8-9=0/32   | · · · ·                               | <ol> <li>Provide mec<br/>bearing plate<br/>18 and 99 lb</li> </ol>  | buld verify capacit<br>hanical connectio<br>capable of withs<br>uplift at joint 10.<br>designed in accord   | n (by oth<br>tanding §   | ers) of truss<br>8 lb uplift at   |  |                         |                               |                          |  |                        |
| BOT CHORD  |   | 6-17=-150/1202,<br> 5=-33/902,<br> 3=-32/907,   |                                       | International   | Residential Code<br>nd referenced sta   | sections   | s R502.11.1 a   | and  |                         |                               |                          | OF OF  | MIS C                  |
| this desigr  | 5-20=-139/414, 12-2<br>6-12=-71/92, 16-19=<br>5-19=-153/421, 4-16<br>15-19=-15/70, 3-17=<br>7-11=0/106<br>ed roof live loads have                     | 20=-134/384,<br>=-145/384,<br>=-78/86, 5-14=0/213<br>=0/102, 13-20=-9/60,<br>been considered for                  |                                       |   |   |  |   |  |                         | -                             | 8                        | Strife OF J<br>Strife OF J<br>SEV<br>SEV<br>NUM<br>PE-2001 | BER LEL                |

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 2) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

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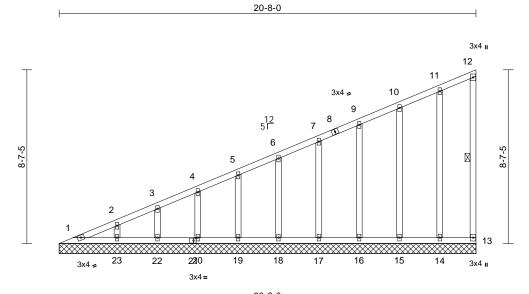
April 10,2024

ESSIONAL ET

| Job     | Truss | Truss Type | Qty | Ply | Lot 166 HT               |           |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B240067 | V1    | Valley     | 1   | 1   | Job Reference (optional) | 164780440 |

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. Tue Apr 09 09:18:05 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

. .



20-8-0

Scale = 1:57.1

Plate Offsets (X, Y): [21:0-1-8,0-1-8]

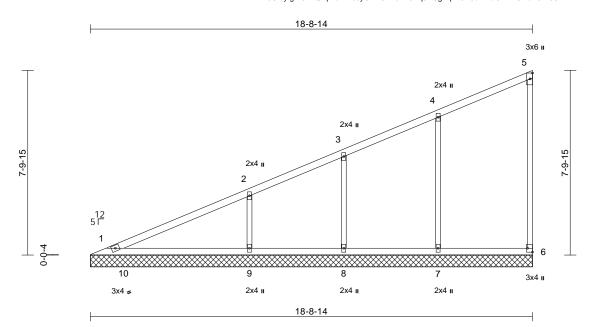
|  |  |   |  |  | 1   | -  |   |   |       |        |     |               |          |
|--|--|---|--|--|---|--|---|---|-------|--------|-----|---------------|----------|
| Loading  | (psf)  | Spacing   | 2-0-0  |  | csi   |  | DEFL  | in  | (loc) | l/defl | L/d | PLATES        | GRIP     |
| TCLL (roof)  | 25.0   |   | 1.15   |  | TC  | 0.30   | Vert(LL)  | n/a   | -     | n/a    | 999 | MT20          | 197/144  |
| TCDL   | 10.0   | Lumber DOL  | 1.15   |  | BC  | 0.13   | Vert(TL)  | n/a   | -     | n/a    | 999 |               |          |
| BCLL   | 0.0  | <ul> <li>Rep Stress Incr</li> </ul>   | YES  |  | WB  | 0.14   | Horiz(TL)   | 0.00  | 13    | n/a    | n/a |               |          |
| BCDL   | 10.0   | Code  | IRC201   | 18/TPI2014   | Matrix-S  | -  |   |   |       |        |     | Weight: 98 lb | FT = 10% |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>REACTIONS | 2x4 SPF No.2<br>2x4 SPF No.2<br>2x4 SPF No.2<br>2x4 SPF No.2<br>Structural wood s<br>6-0-0 oc purlins,<br>Rigid ceiling direc<br>bracing.<br>1 Row at midpt<br>(size) 1=20-8<br>15=20-<br>18=20-<br>22=20-<br>Max Horiz 1=360<br>Max Uplift 13=-44<br>17=-47<br>19=-48<br>22=-45<br>Max Grav 1=131<br>14=17:<br>16=18(<br>18=180<br>20=18:<br>23=21- | heathing directly applie<br>except end verticals.<br>tly applied or 10-0-0 oc<br>12-13<br>-0, 13=20-8-0, 14=20-8<br>8-0, 16=20-8-0, 17=20-<br>8-0, 19=20-8-0, 20=20-<br>8-0, 23=20-8-0<br>(LC 5)<br>(LC 7), 14=-51 (LC 8),<br>(LC 8), 16=-50 (LC 8),<br>(LC 8), 16=-50 (LC 8),<br>(LC 8), 23=-57 (LC 8)<br>(LC 16), 13=59 (LC 1),<br>(LC 1), 15=182 (LC 1)<br>0 (LC 1), 15=182 (LC 1)<br>0 (LC 1), 19=179 (LC 1)<br>2 (LC 1), 22=171 (LC 1)<br>4 (LC 1) | N<br>1<br>-0, 2<br>8-0, 3<br>8-0, 3<br>8-0, 3<br>5<br>6<br>7<br>, 8<br>, 9 | IOTES<br>) Wind: ASCE<br>Vasd=91mpl<br>II; Exp C; En<br>cantilever lef<br>right expose<br>) Truss desigg<br>only. For stu<br>see Standard<br>or consult qu<br>) All plates are<br>or dable studs<br>) This truss ha<br>chord live loa<br>) This truss ha<br>chord and ar<br>) All bearings<br>) Provide mec<br>bearing plate<br>13, 57 lb upli<br>uplift at joint | 2-23=-161/81, 3-<br>5-19=-140/72, 6-<br>9-16=-140/70, 10<br>7-16; Vult=115n;<br>n; TCD=6.0p8;<br>closed; MWFRS<br>t and right exposed<br>d; Lumber DOL=<br>ned for wind load<br>ds exposed to w<br>d Industry Gable<br>ualified building d<br>e 2x4 MT20 unless<br>es continuous bo<br>spaced at 2-0-0<br>as been designed<br>n chord in all are<br>by 200-00 wide w<br>hy other member<br>are assumed to I<br>hanical connectifie<br>capable of with<br>ift at joint 23, 45<br>20, 48 lb uplift at<br>ff at joint 17, 50 | 18=-140/7<br>)-15=-142/<br>nph (3-sec<br>BCDL=6.<br>(envelope<br>sed; end \<br>1.60 plate<br>ds in the p<br>vind (norm<br>End Deta<br>lesigner as<br>so therwi<br>totom chor<br>oc.<br>d for a 10.<br>t with any<br>def or a live<br>as where<br>will fit betw<br>s.<br>be SPF N.<br>on (by oth<br>standing 4<br>Ib upilif at<br>t joint 19, 4 | <ul> <li>'2, 7-17=-140</li> <li>'81, 11-14=-1</li> <li>cond gust)</li> <li>Oppsf; h=25ft;</li> <li>exterior zon</li> <li>vertical left an</li> <li>grip DOL=1.</li> <li>lane of the tru</li> <li>at to the face</li> <li>ils as applica</li> <li>s per ANSI/TI</li> <li>se indicated.</li> <li>d bearing.</li> <li>Opsf bottom</li> <li>other live loae</li> <li>load of 20.0</li> <li>a rectangle</li> <li>veen the botto</li> <li>c.2.</li> <li>ers) of truss t</li> <li>to Ib uplift at j</li> <li>joint 22, 48 li</li> <li>48 lb uplift at</li> </ul> | D/72,<br>37/83<br>Cat.<br>ne;<br>nd<br>60<br>uss<br>ble,<br>PI 1.<br>Dpsf<br>oom<br>to<br>joint<br>b<br>b |       |        | ł.  | STATE OF M    | MISSOLA  |
| TOROLO   | Tension  | ompression/maximum  |  |  | 15 and 51 lb upli   |  |   |   |       |        | A   | SEVI          |          |
| TOP CHORD  | 4-5=-233/26, 5-6=<br>7-9=-180/27, 9-10<br>11-12=-113/71, 1   |   | 68,<br>L   | International  | designed in acco<br>Residential Cod<br>nd referenced sta<br>Standard  | e sections   | s R502.11.1 a   | and   |       | >      | R.  | tto<br>NUM    |          |
| BOT CHORD  | 1-23=-117/89, 22<br>19-20=-117/89, 1<br>17-18=-117/89, 1<br>15-16=-117/89, 1<br>13-14=-117/89  | 6-17=-117/89,   | 7/89,  |  |   |  |   |   |       |        | W.  | PE-2001       | L ENGINE |

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| Job     | Truss | Truss Type | Qty | Ply | Lot 166 HT               |           |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B240067 | V2    | Valley     | 1   | 1   | Job Reference (optional) | 164780441 |

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. Tue Apr 09 09:18:05 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:48.8

Plate Offsets (X, Y): [6: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  | TC   | 0.51   | Vert(LL)  | n/a                             |       | n/a    | 999 | MT20                                 | 197/144               |
| TCDL   | 10.0   | Lumber DOL   | 1.15  | BC   | 0.27   | Vert(TL)  | n/a                             | -     | n/a    | 999 |                                      |                       |
| BCLL   | 0.0*   | Rep Stress Incr  | YES   | WB   | 0.27   | Horiz(TL)   | 0.00                            | 6     | n/a    | n/a |                                      |                       |
| BCDL   | 10.0   | Code   | IRC2018/TPI20   | 14 Matrix-S  |  |   |                                 |       |        |     | Weight: 59 lb                        | FT = 10%              |
|  | 2x4 SPF 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=18-8-1<br>8=18-8-1<br>Max Horiz 1=327 (LU<br>Max Uplift 6=-38 (LC<br>(LC 8), 9:<br>Max Grav 1=255 (LU                              | y applied or 10-0-0 od<br>4, 6=18-8-14, 7=18-8<br>4, 9=18-8-14<br>C 5)<br>C 5), 7=-110 (LC 8), 8<br>149 (LC 8)   | chorc<br>6) * This<br>on th<br>3-06-<br>chorc<br>8) Provi<br>bearin<br>6, 111<br>uplift<br>9) This t<br>Interr<br>8802<br>3=-74 LOAD CA | russ has been designed<br>live load nonconcurrer<br>a truss has been design<br>a bottom chord in all are<br>00 tall by 2-00-00 wide<br>and any other member<br>arings are assumed to<br>de mechanical connecti-<br>ng plate capable of with<br>0 b uplift at joint 7, 74 lb<br>at joint 9.<br>russ is designed in accu-<br>tational Residential Coo<br>.10.2 and referenced st<br><b>ASE(S)</b> Standard | nt with any<br>ed for a liv<br>eas where<br>will fit betv<br>rs, with BC<br>be SPF N<br>ion (by oth<br>standing 3<br>b uplift at j<br>ordance w<br>de sections | other live load of 20.1<br>a rectangle<br>ween the bott<br>OL = 10.0psi<br>o.2.<br>wers) of truss t<br>88 lb uplift at j<br>oint 8 and 14:<br>ith the 2018<br>s R502.11.1 a | Opsf<br>om<br>o<br>oint<br>Ə Ib |       |        |     |                                      |                       |
| FORCES   | (lb) - Maximum Con   | npression/Maximum  |   |  |  |   |                                 |       |        |     |                                      |                       |
| TOP CHORD  | Tension<br>1-2=-265/91, 2-3=-1<br>4-5=-141/67, 5-6=-1  | , , ,  |   |  |  |   |                                 |       |        |     |                                      |                       |
| BOT CHORD  | 1-9=-106/80, 8-9=-1<br>6-7=-106/80   |  |   |  |  |   |                                 |       |        |     |                                      | ADD                   |
| WEBS   | 4-7=-320/142, 3-8=-  | 223/122, 2-9=-421/2  | 09  |  |  |   |                                 |       |        |     | OF OF                                | MISSO                 |
| NOTES  |  |  |   |  |  |   |                                 |       |        | 1   | TE OF                                | 1,0°                  |
| <ol> <li>Wind: ASC<br/>Vasd=91m<br/>II; Exp C; I<br/>cantilever<br/>right expo:</li> <li>Truss des<br/>only. For :<br/>see Stand<br/>or consult</li> <li>Gable requ</li> </ol> | CE 7-16; Vult=115mph<br>hph; TCDL=6.0psf; BC<br>Enclosed; MWFRS (ei<br>left and right exposed<br>sed; Lumber DOL=1.6<br>signed for wind loads i<br>studs exposed to wind<br>ard Industry Gable En<br>qualified building desi<br>uires continuous botto<br>ds spaced at 4-0-0 oc. | EDL=6.0psf; h=25ff; (<br>nvelope) exterior zor<br>; end vertical left an<br>0 plate grip DOL=1.6<br>n the plane of the tru<br>4 (normal to the face)<br>d Details as applicat<br>gner as per ANSI/TF<br>m chord bearing. | ne;<br>d<br>50<br>ss<br>,<br>ble,   |  |  |   |                                 |       |        |     | SCOT<br>SEV<br>SEV<br>NUM<br>PE-2001 | T M.<br>HER<br>018807 |

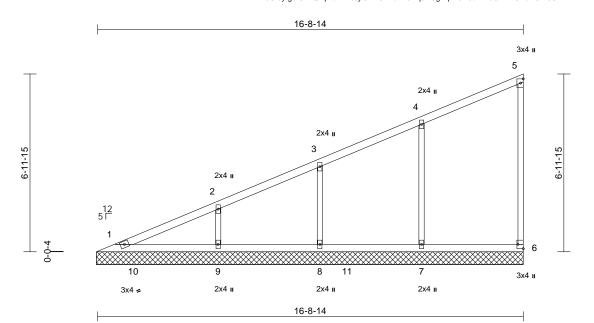


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| Job     | Truss | Truss Type | Qty | Ply | Lot 166 HT               |           |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B240067 | V3    | Valley     | 1   | 1   | Job Reference (optional) | 164780442 |

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. Tue Apr 09 09:18:05 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:45.3

# Plate Offsets (X, Y): [6:Edge,0-2-8]

| (psf)<br>25.0<br>10.0<br>0.0*<br>10.0<br>2x4 SPF No.2  | <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/TI   | T<br>B<br>W  | C  | 0.39<br>0.16  | DEFL<br>Vert(LL)   | in<br>n/a  | (loc)  | l/defl<br>n/a  | L/d<br>999  | PLATES   | GRIP  |
|--|---|--|--|--|---|--|--|--|--|---|--|---|
| 0.0*<br>10.0<br>2x4 SPF No.2   | Rep Stress Incr   | YES  | W  |  | 0.16  |  |  |  | 17/04  | 333   | MT20   | 197/144   |
| 10.0<br>2x4 SPF No.2   |   |  |  |  | 0.10  | Vert(TL)   | n/a  | -  | n/a  | 999   |  |   |
| 2x4 SPF No.2   | Code  | IRC2018/T  |  |  | 0.19  | Horiz(TL)  | 0.00   | 6  | n/a  | n/a   |  |   |
|  |   |  | F12014 IV  | latrix-S   |   |  |  |  |  |   | Weight: 52 lb  | FT = 10%  |
| 6-0-0 oc purlins, exe<br>Rigid ceiling directly<br>bracing.<br>(size) 1=16-9-8,<br>8=16-9-8,<br>Max Horiz 1=290 (LC<br>Max Uplift 6=-36 (LC<br>(LC 8), 9=<br>Max Grav 1=179 (LC<br>7=477 (LC             | cept end verticals.<br>applied or 10-0-0 o<br>9=16-9-8, 7=16-9-8<br>2 5)<br>5 5), 7=-106 (LC 8),<br>-110 (LC 8)<br>2 16), 6=168 (LC 2),   | c ci<br>6) *<br>3-<br>c c bi<br>c 6,<br>7) A<br>8) P<br>c 6,<br>4,<br>9) T<br>Ir<br>8=-90 R<br>8=-90 LOAL  | hord live load r<br>This truss has<br>n the bottom cl<br>-06-00 tall by 2<br>hord and any co<br>Il bearings are<br>rovide mechar<br>earing plate ca<br>, 106 lb uplift a<br>plift at joint 9<br>his truss is des<br>ternational Re<br>802.10.2 and r   | other members, wi<br>assumed to be S<br>nical connection (b<br>apable of withstand<br>t joint 7, 90 lb upli<br>signed in accordar<br>isidential Code se<br>referenced standa   | h any<br>or a live<br>where a<br>it betw<br>ith BC<br>PF No<br>by othe<br>ding 3<br>ift at jo<br>nce wi<br>actions  | other live load<br>e load of 20.0<br>a rectangle<br>even the botto<br>DL = 10.0psf.<br>a.2.<br>ers) of truss to<br>6 lb uplift at joint<br>8 and 110<br>th the 2018<br>R502.11.1 a   | psf<br>m<br>o<br>pint<br>Ib  |  |  |   |  |   |
| (lb) - Maximum Com<br>Tension  | pression/Maximum  |  |  |  |   |  |  |  |  |   |  |   |
|  |   |  |  |  |   |  |  |  |  |   |  |   |
| 6-7=-94/71   | , ,   |  |  |  |   |  |  |  |  |   | Canada   | 1000  |
| 4-7=-310/142, 3-8=-  | 265/141, 2-9=-313/  | 157  |  |  |   |  |  |  |  |   | F. OF I  | MIS SOL   |
| nph; TCDL=6.0psf; BC<br>Enclosed; MWFRS (er<br>left and right exposed<br>sed; Lumber DOL=1.6<br>signed for wind loads ir<br>studs exposed to wind<br>lard Industry Gable En-<br>qualified building desig | DL=6.0psf; h=25ft; (<br>velope) exterior zor<br>; end vertical left an<br>0 plate grip DOL=1.<br>n the plane of the tru<br>(normal to the face<br>d Details as applical<br>gner as per ANSI/TF  | ne;<br>d<br>60<br>Jss<br>),<br>ble,  |  |  |   |  |  |  | )<br>,   | ł   | PE-2001  |   |
|  | 2x3 SPF No.2<br>Structural wood she<br>6-0-0 oc purlins, exx<br>Rigid ceiling directly<br>bracing.<br>(size) 1=16-9-8,<br>8=16-9-8,<br>Max Horiz 1=290 (LC<br>(LC 8), 9=<br>Max Grav 1=179 (LC<br>7=477 (LC<br>(LC 2)<br>(lb) - Maximum Com<br>Tension<br>1-2=-241/62, 2-3=-11<br>4-5=-133/59, 5-6=-11<br>1-9=-94/71, 8-9=-94,<br>6-7=-94/71<br>4-7=-310/142, 3-8=-<br>CE 7-16; Vult=115mph<br>nph; TCDL=6.0psf; BC<br>Enclosed; MWFRS (er<br>Enclosed; MWFRS (er<br>studs exposed to wind<br>ard Industry Gable Em<br>gualified building desig<br>uires continuous botto | 2x3 SPF No.2<br>Structural wood sheathing directly applia<br>6-0-0 oc purlins, except end verticals.<br>Rigid ceiling directly applied or 10-0-0 o<br>bracing.<br>(size) $1=16-9-8, 6=16-9-8, 7=16-9-8$<br>8=16-9-8, 9=16-9-8<br>Max Horiz $1=290$ (LC 5)<br>Max Uplift 6=-36 (LC 5), 7=-106 (LC 8),<br>(LC 8), 9=-110 (LC 8)<br>Max Grav $1=179$ (LC 16), 6=168 (LC 2),<br>7=477 (LC 2), 8=361 (LC 2),<br>(LC 2)<br>(lb) - Maximum Compression/Maximum<br>Tension<br>1-2=-241/62, 2-3=-189/49, 3-4=-160/54, 4-5=-133/59, 5-6=-109/43<br>1-9=-94/71, 8-9=-94/71, 7-8=-94/71, 6-7=-94/71<br>4-7=-310/142, 3-8=-265/141, 2-9=-313/-2000<br>CE 7-16; Vult=115mph (3-second gust)<br>nph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 1<br>Enclosed; MWFRS (envolepe) exterior zool<br>left and right exposed ; end vertical left and<br>sed; Lumber DOL=1.60 plate grip DOL=1.<br>signed for wind loads in the plane of the trustuds exposed to wind (normal to the face<br>ard Industry Gable End Details as applica<br>qualified building designer as per ANSI/TI<br>uires continuous bottom chord bearing. | 2x3 SPF No.2<br>3x3 SPF No.2<br>Structural wood sheathing directly applied or<br>6-0-0 oc purlins, except end verticals.<br>Rigid ceiling directly applied or 10-0-0 oc<br>bracing.<br>(size) $1=16-9-8$ , $6=16-9-8$ , $7=16-9-8$ ,<br>8=16-9-8, $9=16-9-8Max Horiz 1=290 (LC 5)Max Uplift 6=-36 (LC 5), 7=-106 (LC 8), 8=-90(LC 8), 9=-110 (LC 8)Max Grav 1=179 (LC 16), 6=168 (LC 2),7=477$ (LC 2), $8=361$ (LC 2), $9=420(LC 2)(lb) - Maximum Compression/MaximumTension1-2=-241/62$ , $2-3=-189/49$ , $3-4=-160/54$ ,<br>4-5=-133/59, $5-6=-109/431-9=-94/71$ , $8-9=-94/71$ , $7-8=-94/71$ ,<br>6-7=-94/71<br>4-7=-310/142, $3-8=-265/141$ , $2-9=-313/157CE 7-16; Vult=115mph (3-second gust)nph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.Enclosed; MWFRS (envelope) exterior zone;left and right exposed ; end vertical left andsed; Lumber DOL=1.60 plate grip DOL=1.60signed for wind loads in the plane of the trussstuds exposed to wind (normal to the face),ard Industry Gable End Details as applicable,qualified building designer as per ANSI/TPI 1.uires continuous bottom chord bearing.$ | <ul> <li>2x3 SPF No.2</li> <li>2x3 SPF No.2</li> <li>3-06-00 tall by 2<br/>chord and any c</li> <li>3-06-00 tall by</li></ul> | <ul> <li>2x3 SPF No.2</li> <li>3-06-00 clall by 2-00-00 wide will f<br/>chord and any other members, w</li> <li>7) All bearings are assumed to be S</li> <li>8) Provide mechanical connection (I<br/>bearing plate capable of withstan<br/>6, 106 lb uplift at joint 7, 90 lb upl<br/>uplift at joint 9.</li> <li>9) This truss is designed in accorda<br/>International Residential Code se<br/>R802.10.2 and referenced stands<br/>(LC 8), 9=-110 (LC 8)</li> <li>8) Max Horiz 1=290 (LC 5),<br/>Max Uplift 6=-36 (LC 5), 7=-106 (LC 8), 8=-90<br/>(LC 8), 9=-110 (LC 8)</li> <li>9) This truss is designed in accorda<br/>International Residential Code se<br/>R802.10.2 and referenced stands<br/>(LC 2)</li> <li>(lb) - Maximum Compression/Maximum<br/>Tension</li> <li>1-2=-241/62, 2-3=-189/49, 3-4=-160/54,<br/>4-5=-133/59, 5-6=-109/43</li> <li>1-9=-94/71, 8-9=-94/71, 7-8=-94/71,<br/>6-7=-94/71</li> <li>4-7=-310/142, 3-8=-265/141, 2-9=-313/157</li> <li>CE 7-16; Vult=115mph (3-second gust)<br/>nph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.<br/>Enclosed; MWFRS (envelope) exterior zone;<br/>left and right exposed ; end vertical left and<br/>sed; Lumber DOL=1.60 plate grip DOL=1.60<br/>signed for wind loads in the plane of the truss<br/>studs exposed to wind (normal to the face),<br/>ard Industry Gable End Details as applicable,<br/>qualified building designer as per ANSI/TPI 1.<br/>uires continuous bottom chord bearing.</li> </ul> | <ul> <li>2x3 SPF No.2</li> <li>3-06-00 tall by 2-00-00 wide will fit betw<br/>chord and any other members, with BC</li> <li>All bearings are assumed to be SPF No.2</li> <li>3-06-00 tall by 2-00-00 wide will fit betw<br/>chord and any other members, with BC</li> <li>All bearings are assumed to be SPF No.2</li> <li>3-06-00 tall by 2-00-00 wide will fit betw<br/>chord and any other members, with BC</li> <li>All bearings are assumed to be SPF No.2</li> <li>3-06-00 tall by 2-00-00 wide will fit betw<br/>chord and any other members, with BC</li> <li>All bearings are assumed to be SPF No.2</li> <li>This truss is designed in accordance wi<br/>International Residential Code sections<br/>R802.10.2 and referenced standard AN</li> <li>LOAD CASE(S) Standard</li> <li></li></ul> | <ul> <li>2x3 SPF No.2</li> <li>3-06-00 tall by 2-00-00 wide will fit between the botto chord and any other members, with BCDL = 10.0pst.</li> <li>3-06-00 c purlins, except end verticals.</li> <li>Rigid ceiling directly applied or 10-0-0 oc bracing.</li> <li>(size) 1=16-9.8, 6=16-9.8, 7=16-9.8, 8=16-9.8, 8=16-9.8, 9=16-9.8, 9=16-9.8, 9=16-9.8, 9=16-9.8, 9=16-9.8, 9=16-9.8, 0.10 km standing 36 lb uplift at joint 9.</li> <li>(size) 1=16-9.8, 6=16-9.8, 7=16-9.8, 8=16-9.8, 8=16-9.8, 9=16-9.8, 9=1-10 (LC 8), 9=-110 (LC 8), 8=-90 (LC 2), 7=-477 (LC 2), 8=361 (LC 2), 7=477 (LC 12), 8=361 (LC 2), 9=420 (LC 2)</li> <li>(lb) - Maximum Compression/Maximum Tension</li> <li>1-2=-241/62, 2-3=-189/49, 3-4=-160/54, 4-5=-1335/59, 5-6=-109/43</li> <li>1-9=-94/71, 8-9=-94/71, 8-9=-94/71, 6-7=-94/71</li> <li>4-7=-310/142, 3-8=-265/141, 2-9=-313/157</li> <li>CE 7-16; Vult=115mph (3-second gust) ph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.</li> <li>Enclosed; MWFRS (envelope) exterior zone; left and right exposed ; end vertical left and sed; Lumber DOL=1.60 plate grip DOL=1.60 igned for wind loads in the plane of the truss studs exposed to wind (normal to the face), ard Industry Gable End Details as applicable, qualified building designer as per ANSI/TPI 1.</li> </ul> | <ul> <li>3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0pst.</li> <li>3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0pst.</li> <li>3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0pst.</li> <li>3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0pst.</li> <li>3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0pst.</li> <li>3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0pst.</li> <li>3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0pst.</li> <li>3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0pst.</li> <li>3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0pst.</li> <li>3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0pst.</li> <li>3-06-00 tall by 2-00-00 wide will fit between the bottom chord bearing.</li> <li>3-06-00 tall by 2-00-00 wide will fit between the bottom chord bearing.</li> <li>3-06-00 tall by 2-00-00 wide will fit between the bottom chord bearing.</li> <li>3-06-00 tall by 2-00-00 wide will fit between the bottom chord bearing.</li> <li>3-06-00 tall by 2-00-00 wide will fit between the bottom chord bearing.</li> <li>3-06-00 tall by 2-00-00 wide will fit between the bottom chord bearing.</li> <li>3-06-00 tall by 2-00-00 wide will fit between the bottom chord bearing.</li> <li>3-06-00 tall by 2-00-00 wide will fit between the bottom chord bearing.</li> <li>3-06-00 tall by 2-00-00 wide will fit between the bottom chord bearing.</li> <li>3-06-00 tall by 2-00-00 wide will fit between the bottom chord bearing.</li> <li>3-06-00 tall by 2-00-00 wide will fit between the bottom chord bear</li></ul> | <ul> <li>2x3 SPF No.2</li> <li>3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.</li> <li>All bearings are assumed to be SPF No.2.</li> <li>Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 6, 106 lb uplift at joint 7, 90 lb uplift at joint 8 and 110 lb uplift at joint 7, 90 lb uplift at joint 8 and 110 lb uplift at joint 1, 90 lb uplift at joint 8, 100 lb uplift at joint 1, 90 lb uplift at joint 8, 100 lb uplift at joint 8, 100 lb uplift at joint 9, 100 lb uplift at joint 8, 100 lb uplift at joint 9, 100 lb uplift 10</li></ul> | <ul> <li>2x3 SPF No.2</li> <li>3x3 SPF No.2</li> <li>3x0 Ge-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.</li> <li>All bearings are assumed to be SPF No.2.</li> <li>Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 ib uplift at joint 6, 106 ib uplift at joint 7, 90 lb uplift at joint 6, 106 ib uplift at joint 7, 90 lb uplift at joint 6, 106 ib uplift at joint 6, 106 ib uplift at joint 7, 90 lb uplift at joint 6, 106 ib uplift at joint 8, 916-98, 9=16-98, 9=16-98, 9=16-98, 9=16-98, 9=16-98, 9=16-98, 9=16-98, 9=16-98, 9=110 (LC 8), 9=-110 (LC 8), 8=-90 (LC 8), 9=-110 (LC 8), 9=-110 (LC 2), r-7477 (LC 2), 8=361 (LC 2), 9=420 (LC 2)</li> <li>(b) - Maximum Compression/Maximum Tension</li> <li>1-2=-241/62, 2-3=-189/49, 3-4=-160/54, 4-5=-133/59, 5-6=-109/43</li> <li>1-9=-94/71, 8-9=-94/71, 7-8=-94/71, 6-7=-94/71</li> <li>4-7=-310/142, 3-8=-265/141, 2-9=-313/157</li> <li>2E 7-16; Vult=115mph (3-second gust) ph; TCDL=6.0psf; BCDL=6.0ps; h=25ft; Cat. Enclosed; MWFRS (envelope) exterior zone; left and right exposed : end vertical left and sed; Lumber DOL=1.60 plate grip DOL=1.60 igned for wind loads in the plane of the truss studs exposed to wind (normal to the face), ard Industry Gable End Details as applicable, qualified building designer as per ANSI/TPI 1.</li> </ul> | <ul> <li>2x3 SPF No.2</li> <li>3x3 SPF No.2</li> <li>3crossing directly applied or conditional to the parameter of the parame</li></ul> | <ul> <li>2x3 SPF No.2</li> <li>2x3 SPF No.2</li> <li>3x3 SPF No.2</li> <li>3x4 SPF No.2&lt;</li></ul> |

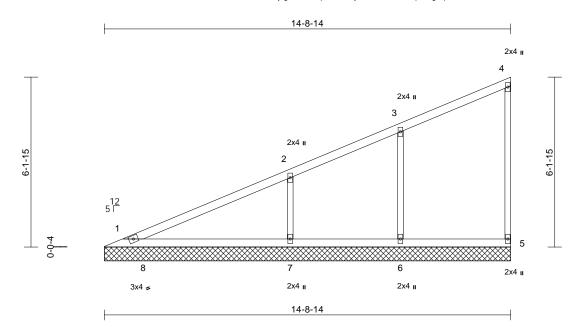
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



| Job     | Truss | Truss Type | Qty | Ply | Lot 166 HT               |           |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B240067 | V4    | Valley     | 1   | 1   | Job Reference (optional) | 164780443 |

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. Tue Apr 09 09:18:05 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:41.8

| 00010 = 111110  |   |  |  |  |  |  |  |                          |                      |                             |                          |                                 |                                    |
|---|---|--|--|--|--|--|--|--------------------------|----------------------|-----------------------------|--------------------------|---------------------------------|------------------------------------|
| 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  | 0.46<br>0.27<br>0.12   | DEFL<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: 44 lb | <b>GRIP</b><br>197/144<br>FT = 10% |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS  | 2x4 SPF No.2<br>2x3 SPF 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=14-8-14<br>7=14-8-14<br>Max Horiz 1=254 (LC<br>Max Uplift 5=-34 (LC<br>(LC 8)<br>Max Grav 1=241 (LC | cept end verticals.<br>applied or 10-0-0 or<br>4, 5=14-8-14, 6=14-4<br>2 5)<br>5 5), 6=-86 (LC 8), 7   | 6)<br>7)<br>8)<br>ed or<br>c 9)<br>8-14, LC<br>=-147 | * This truss I<br>on the bottor<br>3-06-00 tall I<br>chord and ar<br>All bearings<br>Provide mec<br>bearing plate<br>5, 86 Ib uplift<br>This truss is<br>International | has been designe<br>n chord in all are:<br>y 2-00-00 wide v<br>hy other members<br>are assumed to b<br>chanical connection<br>e capable of withs<br>t at joint 6 and 14<br>designed in acco<br>Residential Code<br>nd referenced sta<br>Standard | as where<br>will fit betw<br>s, with BC<br>be SPF No<br>on (by oth<br>standing 3<br>P Ib uplift<br>ordance w<br>e sections | a rectangle<br>veen the both<br>CDL = 10.0psi<br>c.2.<br>ers) of truss t<br>4 lb uplift at j<br>at joint 7.<br>ith the 2018<br>5 R502.11.1 a | om<br>f.<br>to<br>joint  |                      |                             |                          |                                 |                                    |
| FORCES  | (lb) - Maximum Com<br>Tension   |  |  |  |  |  |  |                          |                      |                             |                          |                                 |                                    |
| TOP CHORD<br>BOT CHORD<br>WEBS  | 1-2=-201/89, 2-3=-1<br>4-5=-118/46  | /62, 5-6=-82/62  |  |  |  |  |  |                          |                      |                             |                          |                                 |                                    |
| NOTES<br>1) Wind: ASC<br>Vasd=91n<br>II; Exp C;<br>cantilever<br>right expo<br>2) Truss des<br>only. For<br>see Stand<br>or consult<br>3) Gable req | CE 7-16; Vult=115mph<br>mph; TCDL=6.0psf; BC<br>Enclosed; MWFRS (er<br>left and right exposed<br>signed for wind loads ir<br>studs exposed to wind<br>dard Industry Gable En<br>t qualified building desi-<br>quires continuous bottoo                            | (3-second gust)<br>DL=6.0psf; h=25ft; (<br>nvelope) exterior zor<br>; end vertical left an<br>0 plate grip DOL=1.<br>h the plane of the tru<br>( normal to the face)<br>d Details as applical<br>gner as per ANSI/TF | ne;<br>d<br>60<br>iss<br>),<br>ble,                  |  |  |  |  |                          |                      |                             |                          | STATE OF<br>SCOT<br>SEV         | MISSOLIE<br>T.M.<br>IER            |

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.

> April 10,2024 16023 Swingley Ridge Rd. Chesterfield, MO 63017

PE-200101880

SIONAL ET

314.434.1200 / MiTek-US.com

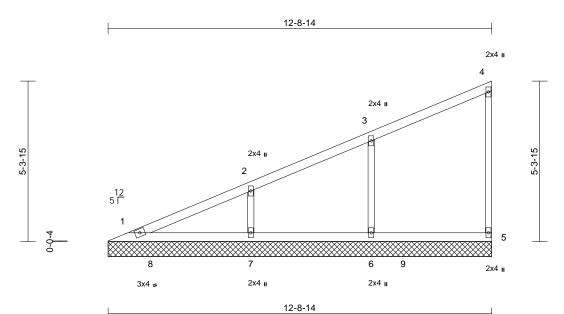
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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual 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 collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

| Job     | Truss | Truss Type | Qty | Ply | Lot 166 HT               |           |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B240067 | V5    | Valley     | 1   | 1   | Job Reference (optional) | 164780444 |

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. Tue Apr 09 09:18:05 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:38.3

| 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  | 0.22       | Vert(LL)   | n/a  | -     | n/a    | 999 | MT20          | 197/144  |
| TCDL        | 10.0   | Lumber DOL                                 | 1.15          | BC  | 0.14       | Vert(TL)   | n/a  | -     | n/a    | 999 |               |          |
| BCLL        | 0.0*   | Rep Stress Incr                            | YES           | WB  | 0.09       | Horiz(TL)  | 0.00 | 5     | n/a    | n/a |               |          |
| BCDL        | 10.0   | Code                                       | IRC2018/TPI20 | 4 Matrix-S  |            |            |      |       |        |     | Weight: 37 lb | FT = 10% |
| LUMBER      |  |  |               | truss has been design                               |            |            | Opsf |       |        |     |               |          |
| TOP CHORD   |  |  |               | bottom chord in all are                             |            |            |      |       |        |     |               |          |
| BOT CHORD   |  |  |               | 0 tall by 2-00-00 wide                              |            |            |      |       |        |     |               |          |
| WEBS        | 2x3 SPF No.2   |  |               | and any other member                                |            |            |      |       |        |     |               |          |
| OTHERS      | 2x3 SPF No.2   |  |               | rings are assumed to                                |            |            |      |       |        |     |               |          |
| BRACING     |  |  | ,             | e mechanical connecti                               |            | ,          |      |       |        |     |               |          |
| TOP CHORD   | <ul> <li>Structural wood she</li> <li>6-0-0 oc purlins, exe</li> </ul> |  |               | g plate capable of with<br>Ib uplift at joint 6 and |            |            | oint |       |        |     |               |          |
| BOT CHORD   |  |  |               | uss is designed in acco<br>ational Residential Coc  |            |            | ind  |       |        |     |               |          |
| REACTIONS   | 0  | 4, 5=12-8-14, 6=12-                        | 8-14          | 10.2 and referenced st                              | tandard AN | ISI/TPI 1. |      |       |        |     |               |          |
|             | 7=12-8-14  | 1  | LOAD CA       | SE(S) Standard                                      |            |            |      |       |        |     |               |          |
|             | Max Horiz 1=218 (LC  | C 5)                                       |               |   |            |            |      |       |        |     |               |          |
|             | Max Uplift 5=-30 (LC   | 5), 6=-101 (LC 8),                         |               |   |            |            |      |       |        |     |               |          |
|             | 7=-107 (L  | C 8)                                       |               |   |            |            |      |       |        |     |               |          |
|             | Max Grav 1=166 (LC<br>6=413 (LC  | C 16), 5=173 (LC 2),<br>C 2), 7=408 (LC 2) | ,             |   |            |            |      |       |        |     |               |          |
| FORCES      | (lb) - Maximum Com   | ,, ( )                                     |               |   |            |            |      |       |        |     |               |          |
|             | Tension  |  |               |   |            |            |      |       |        |     |               |          |
| TOP CHORD   | 1-2=-176/59, 2-3=-1<br>4-5=-111/44                                     | 37/49, 3-4=-117/42,                        | ,             |   |            |            |      |       |        |     |               |          |
| BOT CHORD   | 1-7=-70/53, 6-7=-70  | /53, 5-6=-70/53                            |               |   |            |            |      |       |        |     |               |          |
| WEBS        | 3-6=-299/145, 2-7=-  | 305/156                                    |               |   |            |            |      |       |        |     |               |          |
| NOTES       |  |  |               |   |            |            |      |       |        |     |               |          |
|             | CE 7-16; Vult=115mph   | (3-second dust)                            |               |   |            |            |      |       |        |     | 000           | alle     |
|             | mph; TCDL=6.0psf; BC   |  | Cat           |   |            |            |      |       |        |     | POF           | MIG      |
|             | Enclosed; MWFRS (er  |  |               |   |            |            |      |       |        |     | BAR           | JUSS C   |
|             | r left and right exposed   |  |               |   |            |            |      |       |        | 6   |               | N.S.Y    |
|             | osed; Lumber DOL=1.6   |  |               |   |            |            |      |       |        | A   | STATE OF      | TM. VEN  |
|             | signed for wind loads in   |  |               |   |            |            |      |       |        | 4   | SEV           | IER \V V |
|             | studs exposed to wind  |  |               |   |            |            |      |       |        | 14  | -1            | \★Ŋ      |
| see Stan    | dard Industry Gable En   | d Details as applical                      | ble,          |   |            |            |      |       |        | NI  | 0             |          |

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.



Chesterfield, MO 63017 314.434.1200 / MiTek-US.com

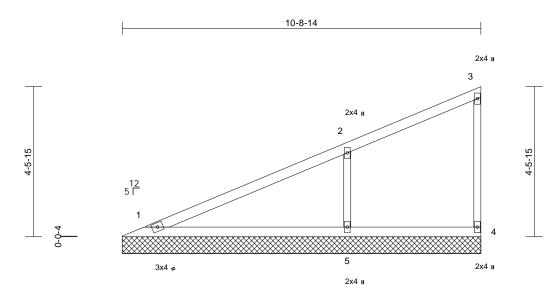
PE-200101880'

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/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

| Job     | Truss | Truss Type | Qty | Ply | Lot 166 HT               |           |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B240067 | V6    | Valley     | 1   | 1   | Job Reference (optional) | 164780445 |

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries. Inc. Tue Apr 09 09:18:05 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



| Scale | - 1 | 1.3/ | 5 |
|-------|-----|------|---|

| Scale = 1:34.5  |   |                     |         |   |   |  |  |         |       |        |     |               |          |
|---|---|---------------------|---------|---|---|--|--|---------|-------|--------|-----|---------------|----------|
| 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  | 0.46   | Vert(LL)   | n/a     | -     | n/a    | 999 | MT20          | 197/144  |
| FCDL  | 10.0  | Lumber DOL          | 1.15    |   | BC  | 0.25   | Vert(TL)   | n/a     | -     | n/a    | 999 |               |          |
| BCLL  | 0.0*  | Rep Stress Incr     | YES     |   | WB  | 0.10   | Horiz(TL)  | 0.00    | 4     | n/a    | n/a |               |          |
| BCDL  | 10.0  | Code                | IRC2018 | 3/TPI2014   | Matrix-S  |  |  |         |       |        |     | Weight: 30 lb | FT = 10% |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD | 2x4 SPF No.2<br>2x4 SPF No.2<br>2x3 SPF No.2<br>2x3 SPF No.2<br>Structural wood shea<br>6-0-0 oc purlins, exa<br>Rigid ceiling directly | cept end verticals. | LC      | Provide me<br>bearing plat<br>23 lb uplift a<br>This truss is<br>Internationa | are assumed to<br>chanical connect<br>e capable of wit<br>at joint 4 and 15-<br>of designed in a<br>l Residential Cc<br>and referenced so<br>Standard | tion (by oth<br>hstanding 5<br>4 lb uplift at<br>cordance w<br>de sections | ers) of truss<br>b uplift at jo<br>joint 5.<br>ith the 2018<br>R502.11.1 a | pint 1, |       |        |     |               |          |

10-8-14

| BOICHORD  | bracing.   | ng directly applied or 10-0-0 oc  |
|-----------|------------|-----------------------------------|
| REACTIONS | (size)     | 1=10-8-14, 4=10-8-14, 5=10-8-14   |
|           | Max Horiz  | 1=181 (LC 5)                      |
|           | Max Uplift | 1=-5 (LC 8), 4=-23 (LC 5), 5=-154 |
|           |            | (LC 8)                            |
|           | Max Grav   | 1=220 (LC 1), 4=95 (LC 1), 5=579  |
|           |            | (LC 1)                            |
| FORCES    | (lb) - Max | imum Compression/Maximum          |
|           | Tension    |                                   |
|           | 1 2 120/   | 00 0 0 - 111/06 0 1 - 70/01       |

| TOP CHORD | 1-2=-138/92, 2-3=-114/30, 3-4=-78/34 |
|-----------|--------------------------------------|
| BOT CHORD | 1-5=-59/45, 4-5=-59/45               |
| WEBS      | 2-5=-436/213                         |

#### NOTES

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



April 10,2024

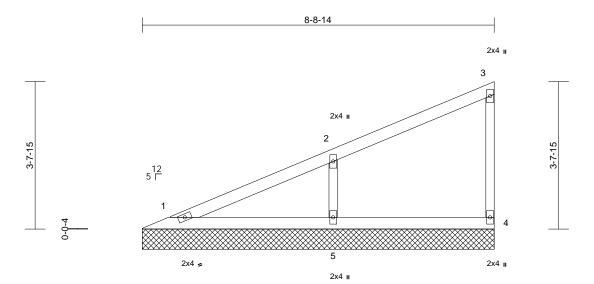
 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not besign value to dury with with where outputs into design is based only door parameters shown, and is for an individual building design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TPH1 Quality Criteria**, and **DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)



| Job     | Truss | Truss Type | Qty | Ply | Lot 166 HT               |           |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B240067 | V7    | Valley     | 1   | 1   | Job Reference (optional) | 164780446 |

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries. Inc. Tue Apr 09 09:18:05 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



| Sca | le = | 1:28.6 |  |
|-----|------|--------|--|
| -   |      |        |  |

| Scale = 1:28.6  |  |                        |  |   |   |   |       |       |        |     |               |          |
|---|--|------------------------|--|---|---|---|-------|-------|--------|-----|---------------|----------|
| 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          | 197/144  |
| 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: 24 lb | FT = 10% |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS<br>BRACING | 2x4 SPF No.2<br>2x4 SPF No.2<br>2x3 SPF No.2<br>2x3 SPF No.2 |                        | bearing plat<br>4 and 119 lk<br>9) This truss is<br>Internationa | chanical connec<br>e capable of wit<br>o uplift at joint 5.<br>designed in ac<br>I Residential Co<br>and referenced s | hstanding 2<br>cordance w<br>ode sections | 3 lb uplift at j<br>ith the 2018<br>R502.11.1 a | joint |       |        |     |               |          |
|   | Structural wood abo  | othing directly opplie | d or LOAD CASE(S)  | Standard  |   |   |       |       |        |     |               |          |

8-8-14

| DIVACING  |                         |                                    |
|-----------|-------------------------|------------------------------------|
| TOP CHORD |                         | wood sheathing directly applied or |
|           | 6-0-0 oc p              | ourlins, except end verticals.     |
| BOT CHORD | Rigid ceili<br>bracing. | ing directly applied or 10-0-0 oc  |
|           | bracing.                |                                    |
| REACTIONS | (size)                  | 1=8-8-14, 4=8-8-14, 5=8-8-14       |
|           | Max Horiz               | 1=145 (LC 5)                       |

- Max Uplift 4=-23 (LC 5), 5=-119 (LC 8) Max Grav 1=138 (LC 1), 4=130 (LC 1), 5=446 (LC 1) FORCES (lb) - Maximum Compression/Maximum
- Tension TOP CHORD 1-2=-114/68, 2-3=-100/28, 3-4=-101/40 1-5=-47/36, 4-5=-47/36 BOT CHORD 2-5=-347/178 WEBS

#### NOTES

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

LOAD CASE(S) Standard



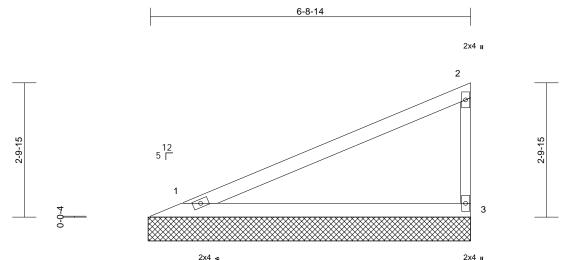
16023 Swingley Ridge Rd. Chesterfield MO 63017 314.434.1200 / MiTek-US.com

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| Job     | Truss | Truss Type | Qty | Ply | Lot 166 HT               |           |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B240067 | V8    | Valley     | 1   | 1   | Job Reference (optional) | 164780447 |

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries. Inc. Tue Apr 09 09:18:06 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

T.



LOAD CASE(S) Standard

I

| Scale = 1:24.3 |       |                 | 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       | 0.70 | Vert(LL)  | n/a  | -     | n/a    | 999 | MT20          | 197/144  |
| TCDL           | 10.0  | Lumber DOL      | 1.15            | BC       | 0.38 | 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: 17 lb | FT = 10% |

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

6-8-14

| BCDL   |
|--------|
| LUMBER |

| TOP CHORD | 2x4 SPF I   | No.2                               |
|-----------|-------------|------------------------------------|
| BOT CHORD | 2x4 SPF I   | No.2                               |
| WEBS      | 2x3 SPF I   | No.2                               |
| BRACING   |             |                                    |
| TOP CHORD | Structural  | wood sheathing directly applied or |
|           | 6-9-8 oc p  | ourlins, except end verticals.     |
| BOT CHORD | Rigid ceili | ng directly applied or 10-0-0 oc   |
|           | bracing.    |                                    |
| REACTIONS | (size)      | 1=6-9-8, 3=6-9-8                   |
|           | Max Horiz   | 1=108 (LC 5)                       |
|           | Max Uplift  | 1=-39 (LC 8), 3=-61 (LC 8)         |
|           | Max Grav    | 1=267 (LC 1), 3=267 (LC 1)         |

#### LC 1), 3=267 (L FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-97/64, 2-3=-208/96 BOT CHORD 1-3=-35/27

# NOTES

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

chord and any other members.

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

Provide mechanical connection (by others) of truss to 8) bearing plate capable of withstanding 39 lb uplift at joint 1 and 61 lb uplift at joint 3.



April 10,2024

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| Job     | Truss | Truss Type | Qty | Ply | Lot 166 HT               |           |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B240067 | V9    | Valley     | 1   | 1   | Job Reference (optional) | 164780448 |

4-8-14

Wheeler Lumber, Waverly, KS - 66871,

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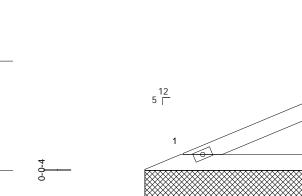
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3

2x4 🛛

2

Page: 1





1-11-15

| 4-8-14 |  |
|--------|--|
|        |  |

| 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       | 0.29 | Vert(LL)  | n/a  | -     | n/a    | 999 | MT20          | 197/144  |
| TCDL        | 10.0  | Lumber DOL      | 1.15            | BC       | 0.16 | Vert(TL)  | n/a  | -     | n/a    | 999 |               |          |
| BCLL        | 0.0*  | Rep Stress Incr | YES             | WB       | 0.00 | Horiz(TL) | 0.00 | 3     | n/a    | n/a |               |          |
| BCDL        | 10.0  | Code            | IRC2018/TPI2014 | Matrix-P |      |           |      |       |        |     | Weight: 12 lb | FT = 10% |

International Residential Code sections R502.11.1 and

9) This truss is designed in accordance with the 2018

R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

2x4 🚽

| LUMBER    |  |
|-----------|--|
| TOP CHORD |  |

Scale - 1.21

BOT CHORD 2x4 SPF No.2 2x3 SPF No.2 WEBS BRACING TOP CHORD Structural wood sheathing directly applied or 4-9-8 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. **REACTIONS** (size) 1=4-8-14, 3=4-8-14 Max Horiz 1=72 (LC 5) Max Uplift 1=-26 (LC 8), 3=-40 (LC 8) Max Grav 1=177 (LC 1), 3=177 (LC 1) FORCES (lb) - Maximum Compression/Maximum Tension

2x4 SPF No.2

# TOP CHORD

1-2=-64/43, 2-3=-138/64 BOT CHORD 1-3=-23/18

# NOTES

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

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

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 1 and 40 lb uplift at joint 3.



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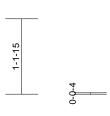


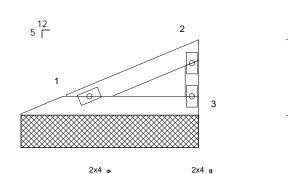
| Job     | Truss | Truss Type | Qty | Ply | Lot 166 HT               |           |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B240067 | V10   | Valley     | 1   | 1   | Job Reference (optional) | 164780449 |

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. Tue Apr 09 09:18:06 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

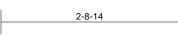
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Page: 1









2-8-14

| Scale = | 1:17.8 |
|---------|--------|
|---------|--------|

| Scale = 1:17.8   |  |  |  |  |                      |   |                          |                      |                             |                          |  |                                    |
|--|--|--|--|--|----------------------|---|--------------------------|----------------------|-----------------------------|--------------------------|--|------------------------------------|
| 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>IRC2018/TPI2014                                      | <b>CSI</b><br>TC<br>BC<br>WB<br>Matrix-P                                 | 0.06<br>0.03<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: 6 lb                         | <b>GRIP</b><br>197/144<br>FT = 10% |
| BOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS (4<br>M  | 2x4 SPF No.2<br>2x4 SPF No.2<br>2x3 SPF No.2<br>Structural wood she<br>2-9-8 oc purlins, ex<br>Rigid ceiling directly<br>bracing.<br>size) 1=2-8-14,<br>Aax Horiz 1=36 (LC<br>Aax Uplift 1=-13 (LC<br>Aax Grav 1=87 (LC  | cept end verticals.<br>applied or 10-0-0 oc<br>3=2-8-14<br>5)<br>2 8), 3=-20 (LC 8)  | International<br>R802.10.2 a<br>LOAD CASE(S)   | designed in accord<br>Residential Code<br>nd referenced star<br>Standard | sections             | 8 R502.11.1 a                             | and                      |                      |                             |                          |  |                                    |
| FORCES   | (lb) - Maximum Com<br>Tension<br>1-2=-32/21, 2-3=-68,<br>1-3=-12/9   | pression/Maximum   |  |  |                      |   |                          |                      |                             |                          |  |                                    |
| <ul> <li>Vasd=91mp<br/>II; Exp C; Er<br/>cantilever le<br/>right expose</li> <li>2) Truss desig<br/>only. For st<br/>see Standar<br/>or consult qi</li> <li>3) Gable requii</li> <li>4) Gable studs</li> <li>5) This truss hi<br/>chord live lo</li> <li>6) * This truss<br/>on the botto<br/>3-06-00 tall<br/>chord and a</li> <li>7) All bearings</li> <li>8) Provide med<br/>bearing plati</li> </ul> | E 7-16; Vult=115mph<br>bh; TCDL=6.0psf; BC<br>nclosed; MWFRS (er<br>ift and right exposed<br>ed; Lumber DOL=1.6<br>gned for wind loads ir<br>uds exposed to wind<br>rd Industry Gable En-<br>ualified building desig-<br>res continuous bottoo<br>is spaced at 4-0-0 oc.<br>as been designed for<br>has been designed for<br>ind nocncurrent wi<br>has been designed for<br>whord in all areas<br>by 2-00-00 wide will<br>ny other members.<br>are assumed to be S<br>chanical connection (<br>e capable of withstar<br>uplift at joint 3. | DL=6.0psf; h=25ff; C<br>velope) exterior zon<br>; end vertical left and<br>0 plate grip DOL=1.6.<br>In the plane of the tru<br>(normal to the face)<br>d Details as applicat<br>gner as per ANSI/TP<br>m chord bearing.<br>r a 10.0 psf bottom<br>th any other live load<br>or a live load of 20.0<br>where a rectangle<br>fit between the botto<br>SPF No.2.<br>(by others) of truss to | ie;<br>d<br>50<br>ss<br>ole,<br>ole,<br>ole,<br>ole,<br>ole,<br>ole,<br>ole,<br>ole, |  |                      |   |                          |                      | (<br>1                      |                          | STATE OF<br>SCOT<br>SEV<br>OCTO<br>PE-2001<br>FESSIONA | IER<br>BER<br>018807               |

April 10,2024

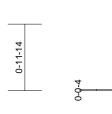


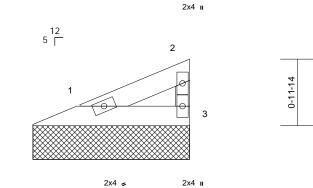
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

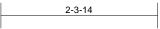
| Job     | Truss | Truss Type | Qty | Ply | Lot 166 HT               |           |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B240067 | V11   | Valley     | 1   | 1   | Job Reference (optional) | 164780450 |

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. Tue Apr 09 09:18:06 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1







2-3-14

| Scale = | 1:1 | 17 | .1 |  |
|---------|-----|----|----|--|
|---------|-----|----|----|--|

| Scale = 1:17.1   |   |   |  |                      |  |                          |                      |                             |                          |                                |                                    |
|--|---|---|--|----------------------|--|--------------------------|----------------------|-----------------------------|--------------------------|--------------------------------|------------------------------------|
| Loading         (psf)           TCLL (roof)         25.0           TCDL         10.0           BCLL         0.0           BCDL         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                                  | 0.04<br>0.02<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: 5 lb | <b>GRIP</b><br>197/144<br>FT = 10% |
| LUMBER<br>TOP CHORD 2x4 SPF No.2<br>BOT CHORD 2x4 SPF No.2<br>BOT CHORD 2x3 SPF No.2<br>BRACING<br>TOP CHORD Structural wood sl<br>2-4-8 oc purlins, e<br>BOT CHORD Rigid ceiling direc<br>bracing.<br>REACTIONS (size) 1=2-3-1<br>Max Horiz 1=28 (L<br>Max Uplift 1=-10 (I<br>Max Grav 1=68 (L  | eathing directly applie<br>except end verticals.<br>ly applied or 10-0-0 o<br>4, 3=2-3-14<br>C 5).<br>C 8), 3=-16 (LC 8)<br>C 1), 3=68 (LC 1)<br>mpression/Maximum  | 9) This truss is<br>Internationa<br>R802.10.2 a<br>LOAD CASE(S    | s designed in accord<br>al Residential Code<br>and referenced star | sections             | s R502.11.1 a                                    | Ind                      |                      |                             |                          | vreight. 5 ib                  |                                    |
| <ul> <li>NOTES</li> <li>1) Wind: ASCE 7-16; Vult=115m<br/>Vasd=91mph; TCDL=6.0psf; E<br/>II; Exp C; Enclosed; MWFRS (<br/>cantilever left and right expose<br/>right exposed; Lumber DOL=1</li> <li>2) Truss designed for wind loads<br/>only. For studs exposed to win<br/>see Standard Industry Gable E<br/>or consult qualified building de</li> <li>3) Gable requires continuous bot</li> <li>4) Gable studs spaced at 4-0-0 o</li> <li>5) This truss has been designed<br/>chord live load nonconcurrent</li> <li>6) * This truss has been designed<br/>on the bottom chord in all area<br/>3-06-00 tall by 2-00-00 wide w<br/>chord and any other members</li> <li>7) All bearings are assumed to b</li> <li>8) Provide mechanical connectio<br/>bearing plate capable of withst<br/>1 and 16 lb uplift at joint 3.</li> </ul> | CDL=6.0psf; h=25ft; 6<br>envelope) exterior zor<br>d; end vertical left an<br>60 plate grip DOL=1.<br>in the plane of the tru<br>dd (normal to the face<br>nd Details as applical<br>signer as per ANSI/TF<br>om chord bearing.<br>c.<br>or a 10.0 psf bottom<br>with any other live loa<br>f for a live load of 20.0<br>s where a rectangle<br>Il fit between the botto<br>e SPF No.2. | ne;<br>d<br>60<br>iss<br>),<br>ole,<br>PI 1.<br>ds.<br>opsf<br>om |  |                      |  |                          |                      |                             |                          | PE-2001                        | T M.<br>IER<br>018807              |

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

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| Job     | Truss | Truss Type | Qty | Ply | Lot 166 HT               |           |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B240067 | V12   | Valley     | 1   | 1   | Job Reference (optional) | 164780451 |

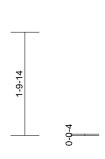
4-3-14

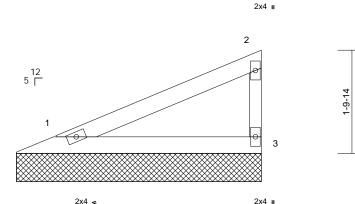
4-3-14

Wheeler Lumber, Waverly, KS - 66871,

#### Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. Tue Apr 09 09:18:06 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







| 1-9-14 |  |
|--------|--|
|        |  |

| Scale | = 1:20.3 |
|-------|----------|
|       |          |

| Scale = 1:20.3   |   |   |  | _  | _                    |   |                          |                      |                             |                          |  |                                    |
|--|---|---|--|--|----------------------|---|--------------------------|----------------------|-----------------------------|--------------------------|--|------------------------------------|
| 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  | <b>CSI</b><br>TC<br>BC<br>WB<br>Matrix-P                                 | 0.22<br>0.12<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: 10 lb                            | <b>GRIP</b><br>197/144<br>FT = 10% |
| FORCES<br>TOP CHORD<br>BOT CHORD<br>NOTES<br>1) Wind: ASC<br>Vasd=91m<br>II; Exp C; E<br>cantilever I<br>right expos<br>2) Truss desi<br>only. For s<br>see Standa<br>or consult (<br>3) Gable requ<br>4) Gable stud<br>5) This truss<br>on the bott<br>3-06-00 tal<br>chord and 1<br>7) All bearing<br>8) Provide me<br>bearing pla | 2x4 SPF No.2<br>2x3 SPF No.2<br>2x3 SPF No.2<br>Structural wood she<br>4-4-8 oc purlins, ex<br>Rigid ceiling directly<br>bracing.<br>(size) 1=4-3-14,<br>Max Horiz 1=64 (LC<br>Max Uplift 1=-23 (LC<br>Max Grav 1=158 (LC<br>(lb) - Maximum Com<br>Tension<br>1-2=-58/38, 2-3=-12<br>1-3=-21/16<br>E 7-16; Vult=115mph<br>ph; TCDL=6.0psf; BC<br>Enclosed; MWFRS (er<br>eft and right exposed<br>sed; Lumber DOL=1.6<br>igned for wind loads ir<br>studs exposed to wind<br>ard Industry Gable En<br>qualified building designires continuous bottoo<br>Is spaced at 4-0-0 oc.<br>has been designed for<br>ooad nonconcurrent wi<br>s has been designed for<br>on chord in all areas<br>s are assumed to be S<br>echanical connection (<br>ate capable of withstar<br>to uplift at joint 3. | cept end verticals.<br>applied or 10-0-0 or<br>3=4-3-14<br>5)<br>2 8), 3=-36 (LC 8)<br>C 1), 3=158 (LC 1)<br>apression/Maximum<br>3/57<br>(3-second gust)<br>DL=6.0psf; h=25ft; 0<br>velope) exterior zor<br>; end vertical left an<br>0 plate grip DOL=1.<br>h the plane of the tru<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>or a live load of 20.0<br>where a rectangle<br>fit between the botto<br>SPF No.2.<br>(by others) of truss to | Cat.<br>LOAD CASE(S)<br>ad or<br>c<br>Cat.<br>ne;<br>d<br>600<br>ISS<br>),<br>pole,<br>PI 1.<br>ds.<br>Jpsf<br>om<br>0 | designed in acco<br>l Residential Code<br>and referenced sta<br>Standard | e sections           | 8 R502.11.1 a                             | ind                      |                      |                             | R                        | STATE OF I<br>STATE OF I<br>SEVI<br>SEVI<br>NUM<br>PE-2001 | BER<br>018807                      |
|  |   |   |  |  |                      |   |                          |                      |                             |                          | m  |                                    |

April 10,2024

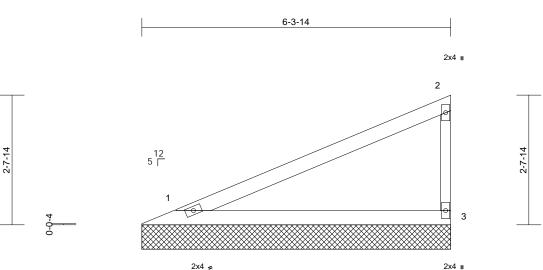
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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



| Job     | Truss | Truss Type | Qty | Ply | Lot 166 HT               |           |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B240067 | V13   | Valley     | 1   | 1   | Job Reference (optional) | 164780452 |

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. Tue Apr 09 09:18:06 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



6-3-14

2x4 🚅

Scale = 1:23.6

| CLL (roof)       25.0       Plate Grip DOL       1.15       TC       0.60       Vert(LL)       n/a       -       n/a       999       MT20       197/144         CDL       0.0*       Rep Stress Incr       YES       WB       0.00       Matrix-P       Vert(LL)       n/a       -       n/a       999       MT20       197/144         CDL       10.0       0.0*       Rep Stress Incr       YES       WB       0.00       Matrix-P       Weight:       16.1b       FT = 10%         UMBER       0.0*       Stress Incr       YES       Natrix-P       Natrix-P       Weight:       16.1b       FT = 10%         UMBER       9)       This truss is designed in accordance with the 2018       International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TP11.       EAS       FT = 10%         COP CHORD       2x4 SPF No.2       LOAD CASE(S)       Standard         RACING         OP CHORD       Structural wood sheathing directly applied or 6-4-8 oc putrins, except end verticals.       COAD CASE(S)       Standard         OT CHORD       Rigid ceiling directly applied or 10-0-0 oc bracing.       FT = 0.3 (14, 3=6-3-14, 3=6-3-14       Max Horiz 1=101 (LC 5)       Max Horiz 1=248 (LC 1), 3=248 (LC 1)       Max Grav 1   | Scale = 1:23.6 |                        |                          |                 |             |           |            |      |       |        |     |               |            |
|--|----------------|------------------------|--------------------------|-----------------|-------------|-----------|------------|------|-------|--------|-----|---------------|------------|
| CDL       10.0       Lumber DOL       1.15       BC       0.02       Ver(TL)       0.00       3       Na       Weight: 16 lb       FT = 10%         CDL       10.0       Code       Nist uss is designed in accordance with He 2018       Nist uss is designed in accordance with He 2018       Nist uss is designed in accordance with He 2018       Nist uss is designed in accordance with He 2018       Nist uss is designed or 10-00 oc       Nist uss is uss has been designed or 10-00 oc       Nist Uss is uss has been designed or 10-00 oc       Nist Uss is uss has been designed or 10-00 oc       Nist Uss is uss has been designed or 10 oc 0.0       Nist Uss is uss has been designed or 10 oc 0.0       Nist Uss is Uss i   | Loading        | (psf)                  | Spacing                  | 2-0-0           | CSI         |           | DEFL       | in   | (loc) | l/defl | L/d | PLATES        | GRIP       |
| CLL 0.0° Rep Stress Incr YES WB Matrix-P Weight: 16 b FT = 10%<br>Weight: 16 b FT = 10%<br>PC HORD 2x4 SPF No.2<br>Code Sections R502.11.1 and<br>R302.02.2 and referenced standard ANS/TPI 1.<br>LOAD CASE(5) Standard<br>PC HORD Structural wood sheathing directly applied or 100-0 oc<br>braining.<br>EACTIONS (size) 1=6-3:14, 3=6-3:14<br>Max Numm Compression/Maximum<br>Transion<br>DP CHORD 12-3-3025<br>OT CHORD 12-3-0005<br>OT CHORD 1 | TCLL (roof)    | 25.0                   | Plate Grip DOL           | 1.15            | тс          | 0.60      | Vert(LL)   | n/a  | -     | n/a    | 999 | MT20          | 197/144    |
| CDL     10.0     Code     IRC2018/TPI2014     Matrix-P     Weight: 16 lb     FT = 10%       UMBER<br>DO CHORD     2x4 SPF No.2     ************************************  | TCDL           | 10.0                   | Lumber DOL               | 1.15            | BC          | 0.32      | Vert(TL)   | n/a  | -     | n/a    | 999 |               |            |
| <ul> <li>9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R50.10.2 and referenced standard ANS//TP11.</li> <li>9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R50.10.2 and referenced standard ANS//TP11.</li> <li>9) This truss is designed or 10-0-0 c braining.</li> <li>100 CHORD Structural wood sheathing directly applied or 6-4.3 copting. Excepting directly applied or 10-0-0 c braining.</li> <li>EACTIONS (size) 1 = t-5-14, 3=6-3-14 Max. Uplit 1=-36 (LC 8). Max. Uplit 1=-36 (LC 8). Max. Grav 1=248 (LC 1). 3=248 (LC 1). Max. Uplit 1=-36 (LC 8). Max. Grav 1=248 (LC 1). 3=248 (LC 1). Max. Uplit 1=-36 (LC 8). Max. Grav 1=248 (LC 1). 3=248 (LC 1). Max. Uplit 1=-36 (LC 8). Max. Grav 1=248 (LC 1). 3=248 (LC 1). Max. Uplit 1=-36 (LC 8). Max. Grav 1=248 (LC 1). 3=248 (LC 1). Max. Uplit 1=-36 (LC 8). Max. Grav 1=248 (LC 1). 3=248 (LC 1). Max. Uplit 1=-36 (LC 8). Max. Grav 1=248 (LC 1). 3=248 (LC 1). 3=248 (LC 1). Max. Uplit 1=-36 (LC 8). Max. Grave 1=248 (LC 1). 3=248 (LC 1). Max. Uplit 1=-36 (LC 8). Max. Grave 1=248 (LC 1). 3=248 (LC 1). Max. Uplit 1=-36 (LC 8). Max. Grave 1=248 (LC 1). 3=248 (LC 1). Standard MAS. Max. Uplit 1=-36 (LC 8). Max. U</li></ul>   | BCLL           | 0.0*                   | Rep Stress Incr          | YES             | WB          | 0.00      | Horiz(TL)  | 0.00 | 3     | n/a    | n/a |               |            |
| DP CHORD 2:44 SPF No.2 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANS/ITPI 1.<br>EERS 2:33 SPF No.2 LOAD CASE(S) Standard<br>PC CHORD Structural wood sheathing directly applied or 10-0 oc bracing.<br>EACTIONS [size] 1=6-3-14, 3=6-3-14<br>Max Horiz 1=101 (LC 5)<br>Max Joint 1=103 (LC 8), 3=-56 (LC 8)<br>Max Joint 1=248 (LC 1), 3=248 (LC 1)<br>ORCESS (I) Maximum Compression/Maximum<br>Tension<br>OT CHORD 1:3=-332/5<br>OT ES<br>Wind MASCE 7-16; Vull=115mph (3=coond gust)<br>Vade-90 (mph, 1CO)_=60 (JC 1), 5=-56 (LC 8)<br>Max Server 1=248 (LC 1), 3=248 (LC 1)<br>Truss Case 1=6-3-14, 3=6-3-14<br>Max Foriz 1=201 (LC 5), 3=-56 (LC 8)<br>Max Grav 1=248 (LC 1), 3=248 (LC 1)<br>Max Grav 1=248 (LC 1), 3=248 (LC 1)<br>Tension -<br>OT CHORD 1:3=-332/5<br>OT ES<br>Wind ASCE 7-16; Vull=115mph (3=coond gust)<br>Vade-90 (mph, 1CO)_=60 (JC 1); 60 (JC 1); 60 (JC 1); 60 (JC 1); 70 (JC  | BCDL           | 10.0                   | Code                     | IRC2018/TPI2014 | Matrix-P    |           |            |      |       |        |     | Weight: 16 lb | FT = 10%   |
| OT CHORD       2x4 SPF No.2       R802.10.2 and referenced standard ANSI/TPI 1.         IEBS       2x3 SPF No.2       LOAD CASE(S)       Standard         RACING       Structural wood sheathing directly applied or 6-4-8 oc purines, except end verticals.       For CHORD         OT CHORD       Structural wood sheathing directly applied or 6-0-0 oc braining.       For CHORD         Reading.       In-63-14, 3e-53-14         Max Uplitt 1-36 (LC 8), 3e-56 (LC 8)       Max Uplitt 1-36 (LC 1), 3e-244 (LC 1)         OP CHORD       1:290/60, 2:3153/90         OF HOR       1:290/60, 2:3153/90         OF HORD       1:290/60, 2:3153/90         OF HORD       1:290/60, 2:3153/90         OF MASCE T-16; Vult=115mph (3-second gust)       Vscd-116/70         Second of wind Indiate in the place IO to 10:0 pt the face IO to 10:0 pt the face  | LUMBER         |                        |                          |                 |             |           |            |      |       |        |     |               |            |
| Tess       2x3 SPF No.2       LOAD CASE(S) Standard         RACING<br>RACING       Structural wood sheathing directly applied or<br>64-8 oc purlins, except and vericals.       For the complexity of the complexity applied or 10-0 oc<br>bracing.         OT CHORD       Sigle celling directly applied or 10-0 oc<br>bracing.       Sigle celling directly applied or 10-0 oc<br>bracing.         EACTIONS       Size (32.6)       1.6-3-14, 3-6-3-14<br>Max Horiz 1=101 (LC 5)<br>Max Upplit 1=-36 (LC 8), 3-3-65 (LC 8)<br>Max Grav 1=248 (LC 1), 3-248 (LC 1).         PRCES       (b) - Maximum Compression/Maximum<br>Tension       Dec Hore 1         To CHORD       1.3-3-323/25         OT EHO       1.333/25         OT EHO       1.333/25         OT EHO<br>Wink ASCE 7-16; Vull=115mph (3-second pust)         V Wat-9 Impi: TCDL=6.0get; BOLL=6.0get; h=25ft; Cat<br>II; Epp C; Enclosed; MWFRS (envelope) extentor zone;<br>cantilever left and right exposed i vind loads in the plane of the fraze),<br>see Standard Industry Gable End Declina as applicable,<br>or consult qualified building designer as per ANSI/TP1 1.         Gable studies spaced at 0-0 c       Op Mort Not Status,<br>Status, Status has been designed for a 10.0 pst blotom<br>chord live lad nonconcurrent with any other live loads.         * This truss has been designed for a 10.0 pst blotom<br>chord live lad nonconcurrent with any other live loads.       Structure<br>PE-2001018807         * This truss has been designed for a 10.0 pst blotom<br>chord live lad nonconcurrent with any other live loads.       Structure<br>PE-2001018807   | TOP CHORD      |                        |                          |                 |             |           |            | and  |       |        |     |               |            |
| RACING<br>OP CHORD Structural wood sheathing directly applied or<br>6-4-8 oc purins, except end verticals.<br>OT CHOR Rigid calling directly applied or 10-0-0 oc<br>braining.<br>EACTIONS (size) 1=6-3-14, 3=6-3-14<br>Max Uplit 1=-36 (LC 8), 3=-65 (LC 8)<br>Max Uplit 1=-36 (LC 1), 3=-248 (LC 1)<br>ORCES (h)- Maximum Compression/Maximum<br>Tension<br>OP CHORD 1-200(60, 2-3=-193/90<br>OT CHORD 1-3=-33/25<br>OTES<br>1 Wind: ASCE 7-16; Vult=115mph (3-second gust)<br>Vasd=91mph; TCDL=6.0pst; BCDL=6.0pst; h=25f; Cat.<br>II; Exp C; Enclosed; MWFRS (envelope) exterior zone;<br>cantilever left and right exposed; end vertical left and<br>right exposed; Lumber DCL=1.60 palts pip DCL=1.60<br>Truss designed for wind loads in the place of the truss<br>only. For studs exposed to wind (normal to the face),<br>see Standard Industry Gable End Details as applicable,<br>or consult qualified building designer as per ANS/IPT 1.<br>Gable requires continuous botom chord bearing.<br>Gable studs spaced at 4-0-0 oc.<br>SUVIER<br>SecUTE M.<br>Gable required for a into log the totom<br>chord and any other members.<br>All bearings are assumed to be SPF No.2.<br>Provide mechanical connection (by others) of truss to<br>bearing plate capable of wintstanding 30 to uplit at joint 1<br>and SS to uplit at joint 3.   |                |                        |                          |                 |             | indard Ar | NSI/TPI 1. |      |       |        |     |               |            |
| OP CHORD Structural wood sheathing directly applied or<br>64-80 cp utrins, except and verticals. OT CHORD Rigid ceiling directly applied or 10-0-0 c<br>bracing. EACTIONS (size) 1=6-3-14, 3=6-3-14<br>Max Horiz 1=101 (LC 5)<br>Max Uplit 1=-36 (LC 8), 3=-56 (LC 8)<br>Max Grav 1=248 (LC 1), 3=248 (LC 1) ORCES (b) - Maximum Compression/Maximum<br>Tension OP CHORD 1: 2=-90/06, 2-3=-1193/90 OT CHOR 1: 3=-3322 OTE UPURE II - 1000 (D) - 100  |                | 2x3 SPF No.2           |                          | LOAD CASE(S     | s) Standard |           |            |      |       |        |     |               |            |
| 6-4-8 oc putlins, except end verticals.         OT CHORD       Rigid ceiling directly applied or 10-0-0 oc bracing.         EACTIONS       (size)       1=6-3-14, 3=6-3-14         Max Uplit       1=-30       (LC 8), 3=-56 (LC 8)         Max Uplit       1=-30 (LC 9), 3=-58 (LC 1)       (Data Value)         ORCES       (lb) - Maximum Compression/Maximum Tension       Development         DP CHORD       1-28-90/60, 2-38-193/90       (Data Value)         OT CHORD       1-38-332/5       (Data Value)         OTES       (lb) - Maximum Compression/Maximum Tension       (lb) - Maximum Compression/Maximum Tension         I: Exp C; Enclosed: MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; clumber DOL-1.60 plate; molton to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSUTP1 1.       Scott M. Sco  |                |                        | othing disectly appli    |                 |             |           |            |      |       |        |     |               |            |
| <pre>OT CHORD Rigid ceiling directly applied or 10-0-0 oc<br/>bracing.</pre> EACTIONS (size) 1=6-3-14, 3=6-3-14<br>Max Horiz 1=101 (LC 5)<br>Max Yolit 1=-36 (LC 8), 3=-56 (LC 8)<br>Max Grav 1=248 (LC 1), 3=-248 (LC 1)<br>ORCES (Ib) - Maximum Compression/Maximum<br>Tension<br>OP CHORD 1:-2=-9060, 2:3=-193/90<br>OT CHORD 1:-3=-33/25<br>OTES<br>Wind: ASCE 7-16; Vulk=115mph (3-second gust)<br>Viside SCE 7-16; Vulk=115mph (3-second gust)<br>SCOTT M. SEVIER<br>Viside Wiside Scender 10 A (30 O) pol bottom<br>chord ive load nonconcurrent with any other live loads.<br>* This truss has been designed for a 110 pol bottom<br>chord and any other members.<br>All bearings are assumed to the SPE No 2.<br>Provide mechanical connection (by others) of truss to<br>bearing plate capable of withstanding 36 bu uplift at joint 3.  | IOP CHORD      |                        |                          | ed or           |             |           |            |      |       |        |     |               |            |
| EACTIONS (size) 1=6-3-14, 3=6-3-14<br>Max Horiz 1=101 (LC 5)<br>Max Korav 1=248 (LC 1), 3=-248 (LC 1)<br>ORCES (b) - Maximum Compression/Maximum<br>Tension<br>DP CHORD 1=2e-90/60, 2=3=-133/90<br>OT CHORD 1=2e-90/60, 2=3=-133/90<br>OT CHORD 1=2e-90/60, 2=3=-133/90<br>OT CHORD 1=3=-33/25<br>OTES<br>I Wind: ASCE 7-16; Vult=115mph (3-second gust)<br>Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25f; Cat.<br>II; Exp C; Enclosed; HWFRS (envelope) exterior zone;<br>cantilever left and right exposed; a underical left and<br>right exposed; Lumber DOL=1.60 plate grip DOL=1.60<br>Truss designed for wind loads in the plane of the truss<br>only. For stude exposed or wind (normal to the face),<br>see Standard Industry Gable End Details as applicable,<br>or consult qualified building designer as per ANS/TP1 1.<br>Gable requires continuous bottom chord bearing.<br>Gable studes spaced at 4-0 -0 cc.<br>This truss has been designed for a 10.0 psf bottom<br>chord dive load nonconcurrent with any other live loads.<br>* This truss has been designed for a live load of 20.0psf<br>on the bottom chord in all areas where a rectangle<br>3-06-00 tall by 2-00-00 with standing 36 ib uplift at joint<br>1 and 56 lb uplift at joint 3.   | BOT CHORD      | Rigid ceiling directly |                          | с               |             |           |            |      |       |        |     |               |            |
| Max Uplit 136 (i.C. 8), 356 (I.C. 8)<br>Max Grav 1=248 (I.C. 1), 3-248 (I.C. 1)<br>ORCES<br>(Ib) - Maximum Compression/Maximum<br>Tension<br>OP CHORD 1 -2-= 90/60, 2-3=-193/90<br>OT CHORD 1 -3-= 33/25<br>OTES<br>(Wind: ASCE 7-16; Vult=115mph (3-second gust)<br>Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; B   | REACTIONS      | •                      | , 3=6-3-14               |                 |             |           |            |      |       |        |     |               |            |
| Max Grav 1=248 (LC 1), 3=248 (LC 1)<br>ORCES (b) - Maximum Compression/Maximum<br>Tension<br>OP CHORD 1-2=-09060, 2-3=-193/90<br>OT CHORD 1-3=-33/25<br><b>OTES</b><br>1 Wint: ASCE 7-16; Vult=115mph (3-second gust)<br>Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.<br>II; Exp C; Enclosed; MWFRS (envelope) exterior zone;<br>cantilever left and right exposed i end vertical left and<br>right exposed; Lumber DCDL=160 pletails as applicable,<br>or consult qualified building designer as per ANS/ITP1 1.<br>Gable requires continuous bottom chord hearing.<br>Gable studies spaced at 4-0-0 oc.<br>This truss has been designed for a 10.0 psf bottom<br>chord and any other members.<br>* This truss has been designed for a 10.0 psf bottom<br>chord and any other members.<br>All bearings are assumed to be SFF No.2.<br>Provide mechanical connection (by others) of truss to<br>bearing plate capable of winstanding 36 bu plift at joint<br>1 and 56 lb uplift at joint 3.  |                |                        |                          |                 |             |           |            |      |       |        |     |               |            |
| <ul> <li>ORCES (b) - Maximum Compression/Maximum Tension</li> <li>OP CHORD 1-2=-90(60, 2-3=-193/90)</li> <li>OT CHORD 1-3=-33/25</li> <li>OTES</li> <li>Wind: ASCE 7-16; Vult=115mph (3-second gust)</li> <li>Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.</li> <li>II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; clumber DOL=1.60</li> <li>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 ANSUTP1 1.</li> <li>Gable requires continuous bottom chord bearing.</li> <li>Gable studs spaced at 4-0-0 oc.</li> <li>This truss has been designed for a live loads.</li> <li>* This truss has been designed for a live loads.</li> <li>* This truss has been designed for a live loads.</li> <li>* This truss has been designed for a live loads.</li> <li>* All bearings are assumed to be SPF No.2.</li> <li>Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 3.</li> </ul>   |                |                        |                          |                 |             |           |            |      |       |        |     |               |            |
| Tension<br>OP CHORD 1-2=-90/60, 2-3=-193/90<br>OT CHORD 1-2=-90/60, 2-3=-193/90<br>OT CHORD 1-3=-33/25<br>OTES<br>Wind: ASCE 7-16; Vult=115mph (3-second gust)<br>Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25f; Cat.<br>II; Exp C; Enclosed; MWFRS (envelope) exterior zone;<br>cantilever left and right exposed; end vertical left and<br>right exposed; Lumber DOL=1.60 plate grip DOL=1.60<br>)Truss designed for wind loads in the plane of the truss<br>only. For studs exposed to wind (normal to the face),<br>see Standard Industry Gable End Details as applicable,<br>or consult qualified building designer as per ANSI/TPI 1.<br>Gable requires continuous bottom chord bearing.<br>Gable studs spaced at 4-0-0 oc.<br>* This truss has been designed for a 10.0 psf bottom<br>chord live load nonconcurrent with any other live loads.<br>* This truss has been designed for a 10.0 psf bottom<br>chord and any other members.<br>All bearing sare assumed to be SPF No.2.<br>Provide mechanical connection (by others) of truss to<br>bearing plate capable of withstanding 36 lb uplift at joint<br>1 and 56 lb uplift at joint 3.  |                | ,                      |                          |                 |             |           |            |      |       |        |     |               |            |
| OP CHORD 1-2=-90/60, 2-3=-193/90<br>OT CHORD 1-3=-33/25<br><b>OTES</b><br>Wind: ASCE 7-16; Vult=115mph (3-second gust)<br>Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25f; Cat.<br>II; Exp C; Enclosed; MWRFS (envelope) exterior zone;<br>cantilever left and right exposed ; end vertical left and<br>right exposed; Lumber DOL=1.60<br>Truss designed for wind loads in the plane of the truss<br>only. For studs exposed to wind (normal to the face),<br>see Standard Industry Gable End Details as applicable,<br>or consult qualified building designer as per ANSI/TPI 1.<br>Gable requires continuous bottom chord bearing.<br>Gable studs spaced at 4-0-0 cc.<br>This truss has been designed for a 10.0 psf bottom<br>chord live load nonconcurrent with any other live loads.<br>* This truss has been designed for a 10.0 psf bottom<br>chord and any other members.<br>All bearings are assumed to be SPF No.2.<br>Provide mechanical connection (by others) of truss to<br>bearing plate capable of withstanding 36 lb uplift at joint<br>1 and 56 lb uplift at joint 3.  | FORCES         | ( )                    | pression/Maximum         |                 |             |           |            |      |       |        |     |               |            |
| OT CHORD 1-3=-33/25<br><b>OTES</b><br>Wind: ASCE 7-16; Vult=115mph (3-second gust)<br>Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25f; Cat.<br>II; Exp C; Enclosed; MWFRS (envelope) exterior zone;<br>cantilever left and right exposed; Lumber DOL=1.60<br>Truss designed for wind loads in the plane of the truss<br>only. For studs exposed to wind (normal to the face),<br>see Standard Industry Gable End Details as applicable,<br>or consult qualified building designer as per ANSI/TPI 1.<br>Gable studs spaced at 4-0-0 oc.<br>This truss has been designed for a 10.0 psf bottom<br>chord live load nonconcurrent with any other live loads.<br>* This truss has been designed for a live load of 20.0psf<br>on the bottom chord in all areas where a rectangle<br>3-06-00 tall by 2-00-00 wide will fit between the bottom<br>chord and any other members.<br>All bearings are assumed to be SPF No.2.<br>Provide mechanical connection (by others) of truss to<br>bearing plate capable of withstanding 36 lb uplift at joint<br>1 and 56 lb uplift at joint 3.   | TOP CHORD      |                        | 3/90                     |                 |             |           |            |      |       |        |     |               |            |
| Wind: ASCE 7-16; Vult=115mph (3-second gust)<br>Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25f; Cat.<br>II; Exp C; Enclosed; MWFRS (envelope) exterior zone;<br>cantilever left and right exposed ; end vertical left and<br>right exposed; Lumber DOL=1.60 plate grip DOL=1.60<br>Truss designed for wind loads in the plane of the truss<br>only. For studs exposed to wind (normal to the face),<br>see Standard Industry Gable End Details as applicable,<br>or consult qualified building designer as per ANSI/TP1 1.<br>Gable requires continuous bottom chord bearing.<br>Gable studs spaced at 4-0-0 oc.<br>This truss has been designed for a 10.0 psf bottom<br>chord live load noncourrent with any other live loads.<br>* This truss has been designed for a live load of 20.0psf<br>on the bottom chord in all areas where a rectangle<br>3-06-00 tall by 2-00-00 wide will fit between the bottom<br>chord and any other members.<br>All bearings are assumed to be SPF No.2.<br>Provide mechanical connection (by others) of truss to<br>bearing plate capable of withstanding 36 lb uplift at joint<br>1 and 56 lb uplift at joint 3.   | BOT CHORD      | ,                      | 0,00                     |                 |             |           |            |      |       |        |     |               |            |
| Wind: ASCE 7-16; Vult=115mph (3-second gust)<br>Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25f; Cat.<br>II; Exp C; Enclosed; MWFRS (envelope) exterior zone;<br>cantilever left and right exposed ; end vertical left and<br>right exposed; Lumber DOL=1.60 plate grip DOL=1.60<br>Truss designed for wind loads in the plane of the truss<br>only. For studs exposed to wind (normal to the face),<br>see Standard Industry Gable End Details as applicable,<br>or consult qualified building designer as per ANSI/TP1 1.<br>Gable requires continuous bottom chord bearing.<br>Gable studs spaced at 4-0-0 oc.<br>This truss has been designed for a 10.0 psf bottom<br>chord live load noncourrent with any other live loads.<br>* This truss has been designed for a live load of 20.0psf<br>on the bottom chord in all areas where a rectangle<br>3-06-00 tall by 2-00-00 wide will fit between the bottom<br>chord and any other members.<br>All bearings are assumed to be SPF No.2.<br>Provide mechanical connection (by others) of truss to<br>bearing plate capable of withstanding 36 lb uplift at joint<br>1 and 56 lb uplift at joint 3.   | NOTES          |                        |                          |                 |             |           |            |      |       |        |     |               |            |
| II; Exp C; Enclosed; MWFRS (envelope) exterior zone;<br>cantilever left and right exposed; end vertical left and<br>right exposed; Lumber DOL=1.60 plate grip DOL=1.60<br>Truss designed for wind loads in the plane of the truss<br>only. For studs exposed to wind (normal to the face),<br>see Standard Industry Gable End Details as applicable,<br>or consult qualified building designer as per ANSI/TPI 1.<br>Gable requires continuous bottom chord bearing.<br>Gable studs spaced at 4-0-0 oc.<br>This truss has been designed for a 10.0 psf bottom<br>chord live load nonconcurrent with any other live loads.<br>* This truss has been designed for a live load of 20.0psf<br>on the bottom chord in all areas where a rectangle<br>3-06-00 tall by 2-00-00 wide will fit between the bottom<br>chord and any other members.<br>All bearings are assumed to be SPF No.2.<br>Provide mechanical connection (by others) of truss to<br>bearing plate capable of withstanding 36 lb uplift at joint<br>1 and 56 lb uplift at joint 3.   |                | CE 7-16; Vult=115mph   | (3-second gust)          |                 |             |           |            |      |       |        |     |               |            |
| cantilever left and right exposed ; end vertical left and<br>right exposed ; Lumber DOL=1.60 plate grip DOL=1.60<br>Truss designed for wind loads in the plane of the truss<br>only. For studs exposed to wind (normal to the face),<br>see Standard Industry Gable End Details as applicable,<br>or consult qualified building designer as per ANSI/TPI 1.<br>Gable requires continuous bottom chord bearing.<br>Gable studs spaced at 4-0-0 oc.<br>This truss has been designed for a 10.0 psf bottom<br>chord live load nonconcurrent with any other live loads.<br>* This truss has been designed for a live load of 20.0psf<br>on the bottom chord in all areas where a rectangle<br>3-06-00 tall by 2-00-00 wide will fit between the bottom<br>chord and any other members.<br>All bearings are assumed to be SPF No.2.<br>Provide mechanical connection (by others) of truss to<br>bearing plate capable of withstanding 36 lb uplift at joint<br>1 and 56 lb uplift at joint 3.   |                |                        |                          |                 |             |           |            |      |       |        |     |               |            |
| right exposed; Lumber DÓL=1.60 plate grip DOL=1.60<br>Truss designed for wind loads in the plane of the truss<br>only. For studs exposed to wind (normal to the face),<br>see Standard Industry Gable End Details as applicable,<br>or consult qualified building designer as per ANSI/TPI 1.<br>Gable requires continuous bottom chord bearing.<br>Gable studs spaced at 4-0-0 oc.<br>This truss has been designed for a 10.0 psf bottom<br>chord live load nonconcurrent with any other live loads.<br>* This truss has been designed for a live load of 20.0psf<br>on the bottom chord in all areas where a rectangle<br>3-06-00 tall by 2-00-00 wide will fit between the bottom<br>chord and any other members.<br>All bearings are assumed to be SPF No.2 .<br>Provide mechanical connection (by others) of truss to<br>bearing plate capable of withstanding 36 lb uplift at joint<br>1 and 56 lb uplift at joint 3.  |                |                        |                          |                 |             |           |            |      |       |        |     |               |            |
| <ul> <li>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.</li> <li>Gable requires continuous bottom chord bearing.</li> <li>Gable studs spaced at 4-0-0 oc.</li> <li>This truss has been designed for a 10.0 psf bottom chord live load on concurrent with any other live loads.</li> <li>* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.</li> <li>All bearings are assumed to be SPF No.2.</li> <li>Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 1 and 56 lb uplift at joint 3.</li> </ul>  |                |                        |                          |                 |             |           |            |      |       |        |     |               |            |
| <ul> <li>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.</li> <li>Gable requires continuous bottom chord bearing.</li> <li>Gable studs spaced at 4-0-0 cc.</li> <li>This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.</li> <li>* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.</li> <li>All bearings are assumed to be SPF No.2.</li> <li>Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 1 and 56 lb uplift at joint 3.</li> </ul>  |                |                        |                          |                 |             |           |            |      |       |        |     |               |            |
| see Standard Industry Gable End Details as applicable,<br>or consult qualified building designer as per ANSI/TPI 1.<br>Gable requires continuous bottom chord bearing.<br>Gable studs spaced at 4-0-0 oc.<br>This truss has been designed for a 10.0 psf bottom<br>chord live load nonconcurrent with any other live loads.<br>* This truss has been designed for a live load of 20.0psf<br>on the bottom chord in all areas where a rectangle<br>3-06-00 tall by 2-00-00 wide will fit between the bottom<br>chord any other members.<br>All bearings are assumed to be SPF No.2.<br>Provide mechanical connection (by others) of truss to<br>bearing plate capable of withstanding 36 lb uplift at joint<br>1 and 56 lb uplift at joint 3.   |                |                        |                          |                 |             |           |            |      |       |        |     | 000           | alle       |
| Gable studs spaced at 4-0-0 oc.<br>This truss has been designed for a 10.0 psf bottom<br>chord live load nonconcurrent with any other live loads.<br>* This truss has been designed for a live load of 20.0psf<br>on the bottom chord in all areas where a rectangle<br>3-06-00 tall by 2-00-00 wide will fit between the bottom<br>chord and any other members.<br>All bearings are assumed to be SPF No.2.<br>Provide mechanical connection (by others) of truss to<br>bearing plate capable of withstanding 36 lb uplift at joint<br>1 and 56 lb uplift at joint 3.   |                |                        |                          |                 |             |           |            |      |       |        |     | OF            | MISC       |
| Gable studs spaced at 4-0-0 oc.<br>This truss has been designed for a 10.0 psf bottom<br>chord live load nonconcurrent with any other live loads.<br>* This truss has been designed for a live load of 20.0psf<br>on the bottom chord in all areas where a rectangle<br>3-06-00 tall by 2-00-00 wide will fit between the bottom<br>chord and any other members.<br>All bearings are assumed to be SPF No.2.<br>Provide mechanical connection (by others) of truss to<br>bearing plate capable of withstanding 36 lb uplift at joint<br>1 and 56 lb uplift at joint 3.   |                |                        |                          |                 |             |           |            |      |       |        |     | 450           |            |
| <ul> <li>This truss has been designed for a 10.0 psf bottom chord live load for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.</li> <li>* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord any other members.</li> <li>All bearings are assumed to be SPF No.2.</li> <li>Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 1 and 56 lb uplift at joint 3.</li> </ul>  |                |                        |                          |                 |             |           |            |      |       |        | A   | AN SCOT       | Nev Int    |
| <ul> <li>This true had not over the load non-concurrent with any other live loads.</li> <li>* This trues has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle</li> <li>3-06-00 tall by 2-00-00 wide will fit between the bottom chord any other members.</li> <li>All bearings are assumed to be SPF No.2.</li> <li>Provide mechanical connection (by others) of trues to bearing plate capable of withstanding 36 lb uplift at joint 1 and 56 lb uplift at joint 3.</li> </ul>   |                |                        |                          |                 |             |           |            |      |       |        | R   | ~ /           |            |
| <ul> <li>* This truss has been designed for a live load of 20.0psf<br/>on the bottom chord in all areas where a rectangle<br/>3-06-00 tall by 2-00-00 wide will fit between the bottom<br/>chord and yo ther members.</li> <li>All bearings are assumed to be SPF No.2.</li> <li>Provide mechanical connection (by others) of truss to<br/>bearing plate capable of withstanding 36 lb uplift at joint<br/>1 and 56 lb uplift at joint 3.</li> </ul>   |                |                        |                          | da              |             |           |            |      |       |        | 9.  | SEV           |            |
| on the bottom chord in all areas where a rectangle<br>3-06-00 tall by 2-00-00 wide will fit between the bottom<br>chord and any other members.<br>All bearings are assumed to be SPF No.2.<br>Provide mechanical connection (by others) of truss to<br>bearing plate capable of withstanding 36 lb uplift at joint<br>1 and 56 lb uplift at joint 3.<br>Provide mechanical connection (by others) of truss to<br>bearing plate capable of withstanding 36 lb uplift at joint<br>1 and 56 lb uplift at joint 3.   |                |                        |                          |                 |             |           |            |      |       | •      | TRA | 9             | 0          |
| <ul> <li>3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.</li> <li>All bearings are assumed to be SPF No.2.</li> <li>Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 1 and 56 lb uplift at joint 3.</li> </ul>  |                |                        |                          | 5951            |             |           |            |      |       |        | WK. | -+++          | · Annular  |
| bearing plate capable of withstanding 36 lb uplift at joint<br>1 and 56 lb uplift at joint 3.  |                |                        |                          | om              |             |           |            |      |       |        |     | NUM           |            |
| bearing plate capable of withstanding 36 lb uplift at joint<br>1 and 56 lb uplift at joint 3.  |                |                        |                          |                 |             |           |            |      |       |        | N   | OX PE-2001    | 1018807    |
| bearing plate capable of withstanding 36 lb uplift at joint<br>1 and 56 lb uplift at joint 3.  |                |                        |                          |                 |             |           |            |      |       |        | Ŷ   | The last      | 15H        |
|  |                |                        |                          |                 |             |           |            |      |       |        |     | Sim           | FNO        |
|  |                |                        | inding so is uplint at j | UIII            |             |           |            |      |       |        |     | DUNA          | IL LA      |
| April 10,2024  | r anu 50       | io apint at joint o.   |                          |                 |             |           |            |      |       |        |     | alle          |            |
|  |                |                        |                          |                 |             |           |            |      |       |        |     | Apr           | 11 10,2024 |

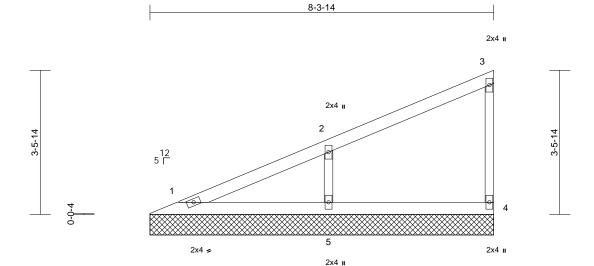
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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



| Job     | Truss | Truss Type | Qty | Ply | Lot 166 HT               |           |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B240067 | V14   | Valley     | 1   | 1   | Job Reference (optional) | 164780453 |

#### Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. Tue Apr 09 09:18:06 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





8-3-14

Scale = 1:27.9

|                        |   | 1                      |                |                          |             |                  |      |       |        |          | •             |           |
|------------------------|---|------------------------|----------------|--------------------------|-------------|------------------|------|-------|--------|----------|---------------|-----------|
| Loading                | (psf)   | Spacing                | 2-0-0          | CSI                      |             | DEFL             | in   | (loc) | l/defl | L/d      | PLATES        | GRIP      |
| TCLL (roof)            | 25.0  | Plate Grip DOL         | 1.15           | TC                       | 0.23        | Vert(LL)         | n/a  | -     | n/a    | 999      | MT20          | 197/144   |
| 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                       | 0.06        | Horiz(TL)        | 0.00 | 4     | n/a    | n/a      |               |           |
| BCDL                   | 10.0  | Code                   | IRC2018/TPI201 | 4 Matrix-P               |             | ( )              |      |       |        |          | Weight: 22 lb | FT = 10%  |
| LUMBER                 |   |                        | 8) Provid      | e mechanical connecti    | ion (by oth | ers) of truss to | 0    |       |        |          |               |           |
| TOP CHORD              | 2x4 SPF No.2                                    |                        |                | plate capable of with    |             |                  |      |       |        |          |               |           |
| BOT CHORD              |   |                        |                | 12 lb uplift at joint 5. | Ŭ           |                  |      |       |        |          |               |           |
| WEBS                   | 2x3 SPF No.2                                    |                        |                | uss is designed in acco  |             |                  |      |       |        |          |               |           |
| OTHERS                 | 2x3 SPF No.2                                    |                        |                | tional Residential Cod   |             |                  | nd   |       |        |          |               |           |
| BRACING                |   |                        | R802.1         | 0.2 and referenced sta   | andard AN   | ISI/TPI 1.       |      |       |        |          |               |           |
| TOP CHORD              | Structural wood she                             | athing directly applie | ed or LOAD CA  | SE(S) Standard           |             |                  |      |       |        |          |               |           |
|                        | 6-0-0 oc purlins, ex                            |                        |                |                          |             |                  |      |       |        |          |               |           |
| BOT CHORD              | Rigid ceiling directly                          | applied or 10-0-0 o    | с              |                          |             |                  |      |       |        |          |               |           |
|                        | bracing.  |                        |                |                          |             |                  |      |       |        |          |               |           |
| REACTIONS              |   | , 4=8-3-14, 5=8-3-14   | 1              |                          |             |                  |      |       |        |          |               |           |
|                        | Max Horiz 1=137 (LC                             | ,                      |                |                          |             |                  |      |       |        |          |               |           |
|                        | Max Uplift 4=-23 (LC                            |                        |                |                          |             |                  |      |       |        |          |               |           |
|                        | Max Grav 1=119 (L0                              | C 1), 4=135 (LC 1), 5  | 5=423          |                          |             |                  |      |       |        |          |               |           |
|                        | (LC 1)  |                        |                |                          |             |                  |      |       |        |          |               |           |
| FORCES                 | (lb) - Maximum Com                              | pression/Maximum       |                |                          |             |                  |      |       |        |          |               |           |
|                        | Tension   | 7/20 2 4 405/44        |                |                          |             |                  |      |       |        |          |               |           |
| TOP CHORD<br>BOT CHORD | 1-2=-109/62, 2-3=-9                             |                        |                |                          |             |                  |      |       |        |          |               |           |
| WEBS                   | 1-5=-45/34, 4-5=-45<br>2-5=-329/169             | /34                    |                |                          |             |                  |      |       |        |          |               |           |
|                        | 2-3=-329/109                                    |                        |                |                          |             |                  |      |       |        |          |               |           |
| NOTES                  |   | (0                     |                |                          |             |                  |      |       |        |          |               |           |
|                        | CE 7-16; Vult=115mph<br>nph; TCDL=6.0psf; BC    |                        | Cot            |                          |             |                  |      |       |        |          |               |           |
|                        | Enclosed; MWFRS (er                             |                        |                |                          |             |                  |      |       |        |          |               |           |
|                        | left and right exposed                          |                        |                |                          |             |                  |      |       |        |          | SIL           | ann       |
|                        | sed; Lumber DOL=1.6                             |                        |                |                          |             |                  |      |       |        |          | TATE OF       | MISC      |
|                        | signed for wind loads in                        |                        |                |                          |             |                  |      |       |        |          | 4 SE          |           |
| only. For              | studs exposed to wind                           | (normal to the face)   | ),             |                          |             |                  |      |       |        | A        | NY and        | New       |
|                        | lard Industry Gable En                          |                        |                |                          |             |                  |      |       |        | A        | S/ 5001       |           |
|                        | qualified building desi                         |                        | PI 1.          |                          |             |                  |      |       | -      | И.       | SEV           |           |
|                        | uires continuous botto                          | m chord bearing.       |                |                          |             |                  |      |       |        | BA       |               |           |
|                        | ds spaced at 4-0-0 oc.                          | 10.0 (1.4)             |                |                          |             |                  |      |       |        | <b>X</b> |               |           |
|                        | has been designed fo                            |                        | da             |                          |             |                  |      |       | _      |          |               | K MAN     |
|                        | load nonconcurrent wi<br>ss has been designed f |                        |                |                          |             |                  |      |       |        | 107      | PE-2001       | 018807    |
| o) mis trus            | s has been designed t                           | or a rive road of 20.0 | Jhai           |                          |             |                  |      |       |        | XV.      | 11-2001       | 01000/ 29 |

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

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

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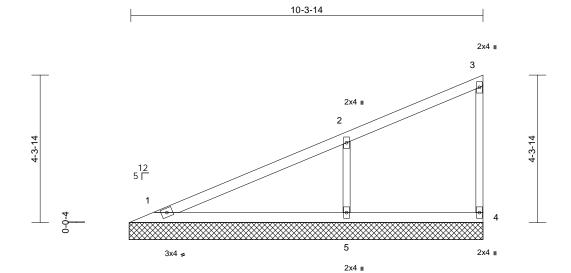
April 10,2024

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| Job     | Truss | Truss Type | Qty | Ply | Lot 166 HT               |           |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B240067 | V15   | Valley     | 1   | 1   | Job Reference (optional) | 164780454 |

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries. Inc. Tue Apr 09 09:18:06 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



10-3-14

| Scale | = | 1:33.8 |
|-------|---|--------|

| 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   | <b>CSI</b><br>TC<br>BC<br>WB<br>Matrix-S  | 0.40<br>0.21<br>0.09   | <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: 28 lb | <b>GRIP</b><br>197/144<br>FT = 10% |
|--|---|---|---|---|---|--|---|--------------------------|----------------------|-----------------------------|--------------------------|---------------------------------|------------------------------------|
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS | 2x4 SPF 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=10-4-8,<br>Max Horiz 1=174 (LC<br>Max Uplift 1=-3 (LC<br>(LC 8) | cept end verticals.<br>applied or 10-0-0 oc<br>4=10-4-8, 5=10-4-8<br>C 5) | LC<br>145                               | Provide mec<br>bearing plate<br>23 lb uplift at<br>This truss is<br>International | are assumed to the<br>are assumed to the<br>capable of withs<br>joint 4 and 145 I<br>designed in accc<br>Residential Code<br>and referenced state<br>Standard | on (by oth<br>standing 3<br>b uplift at<br>ordance w<br>e sections | ers) of truss<br>b lb uplift at jo<br>joint 5.<br>ith the 2018<br>5 R502.11.1 a | pint 1,                  |                      |                             |                          |                                 |                                    |
| FORCES   | (LC 1)<br>(Ib) - Maximum Com<br>Tension<br>1-2=-133/85, 2-3=-1  |   |   |   |   |  |   |                          |                      |                             |                          |                                 |                                    |

BOT CHORD 1-5=-56/43, 4-5=-56/43 WEBS 2-5=-413/202

#### NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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. \* This truss has been designed for a live load of 20.0psf 6)
- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.



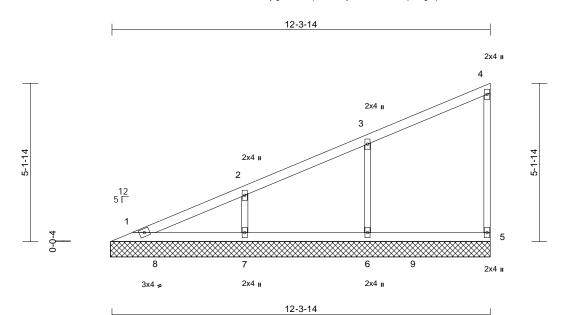
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 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not besign value to dury with with where outputs into design is based only door parameters shown, and is 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 | Lot 166 HT               |           |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B240067 | V16   | Valley     | 1   | 1   | Job Reference (optional) | 164780455 |

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. Tue Apr 09 09:18:06 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:37.5

| Loading<br>TCLL (roof)                                    | (psf)<br>25.0  | Spacing<br>Plate Grip DOL  | 2-0-0<br>1.15  |   | CSI<br>TC   | 0.20  | <b>DEFL</b><br>Vert(LL)  | in<br>n/a                  | (loc)<br>- | l/defl<br>n/a | L/d<br>999 | PLATES<br>MT20 | <b>GRIP</b><br>197/144 |
|---|--|--|----------------|---|---|---|--|----------------------------|------------|---------------|------------|----------------|------------------------|
| 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  | 0.09  | Horiz(TL)  | 0.00                       | 5          | n/a           | n/a        |                |                        |
| BCDL  | 10.0   | Code   | IRC201         | 8/TPI2014   | Matrix-S  |   |  |                            |            |               |            | Weight: 36 lb  | FT = 10%               |
|   | 2x4 SPF No.2<br>2x4 SPF 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=12-4-8,<br>7=12-4-8<br>Max Horiz 1=210 (L0 | cept end verticals.<br>applied or 10-0-0 oc<br>, 5=12-4-8, 6=12-4-8                              | c 9)           | on the botton<br>3-06-00 tall li<br>chord and an<br>) All bearings<br>Provide mec<br>bearing plate<br>5, 103 lb upl<br>) This truss is<br>International | has been design<br>in chord in all ar<br>by 2-00-00 wide<br>by other membe<br>are assumed to<br>hanical connect<br>e capable of with<br>fit at joint 6 and<br>designed in acc<br>Residential Coo<br>nd referenced s<br>Standard | eas where<br>will fit betw<br>rrs, with BC<br>be SPF No<br>cion (by oth-<br>nstanding 2<br>100 lb uplif<br>cordance wi<br>de sections | a rectangle<br>veen the botto<br>DL = 10.0psf<br>o.2.<br>ers) of truss t<br>9 lb uplift at j<br>t at joint 7.<br>ith the 2018<br>R502.11.1 a | om<br>:<br>:<br>oo<br>oint |            |               |            |                |                        |
| I   | Max Uplift 5=-29 (LC<br>7=-100 (L  | C 5), 6=-103 (LC 8),<br>.C 8)  |                |   |   |   |  |                            |            |               |            |                |                        |
| ſ   | ``   | C 2), 7=382 (LC 2)   |                |   |   |   |  |                            |            |               |            |                |                        |
| FORCES  | (lb) - Maximum Corr<br>Tension   | pression/Maximum   |                |   |   |   |  |                            |            |               |            |                |                        |
| TOP CHORD   | 1-2=-172/54, 2-3=-1<br>4-5=-110/43   | 34/51, 3-4=-116/40,  |                |   |   |   |  |                            |            |               |            |                |                        |
| BOT CHORD<br>WEBS   | 1-7=-68/51, 6-7=-68<br>3-6=-304/148, 2-7=-   | ,  |                |   |   |   |  |                            |            |               |            |                |                        |
| NOTES   |  |  |                |   |   |   |  |                            |            |               |            |                |                        |
| Vasd=91mj<br>II; Exp C; E<br>cantilever le<br>right expos | E 7-16; Vult=115mph<br>ph; TCDL=6.0psf; BC<br>inclosed; MWFRS (er<br>eft and right exposed<br>ed; Lumber DOL=1.6<br>aned for wind loads in   | DL=6.0psf; h=25ft; (<br>nvelope) exterior zor<br>; end vertical left and<br>0 plate grip DOL=1.6 | ne;<br>d<br>60 |   |   |   |  |                            |            |               |            | STATE OF I     | MISSOLUTI M.           |

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 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.



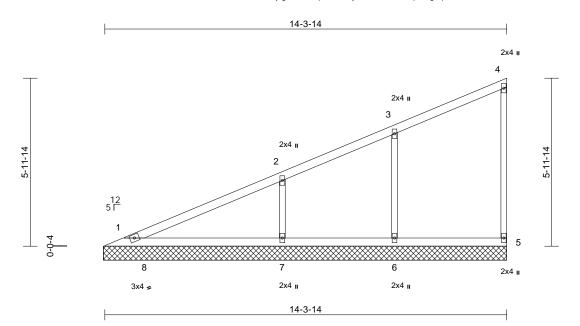
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| Job     | Truss | Truss Type | Qty | Ply | Lot 166 HT               |           |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B240067 | V17   | Valley     | 1   | 1   | Job Reference (optional) | 164780456 |

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. Tue Apr 09 09:18:06 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:41.1

| 00010 - 11.4111        |   |                           |               |  |              |                  |           |       |               |            |                |                        |
|------------------------|---|---------------------------|---------------|--|--------------|------------------|-----------|-------|---------------|------------|----------------|------------------------|
| Loading<br>TCLL (roof) | (psf)<br>25.0                               | Spacing<br>Plate Grip DOL | 2-0-0<br>1.15 | CSI<br>TC  | 0.39         | DEFL<br>Vert(LL) | in<br>n/a | (loc) | l/defl<br>n/a | L/d<br>999 | PLATES<br>MT20 | <b>GRIP</b><br>197/144 |
| TCDL                   | 10.0  | Lumber DOL                | 1.15          | BC   | 0.33         | Vert(TL)         | n/a       | -     | n/a           | 999        | 101120         | 137/144                |
| BCLL                   | 0.0*  | Rep Stress Incr           | YES           | WB   | 0.20         | Horiz(TL)        | 0.00      | 5     | n/a           | n/a        |                |                        |
| BCDL                   | 10.0  | Code                      | IRC2018/TF    |  | 0.11         | Tion2(TE)        | 0.00      | 0     | n/a           | n/a        | Weight: 42 lb  | FT = 10%               |
| LUMBER                 |   |                           |               | This truss has been designed                                 |              |                  | Opsf      |       |               |            |                |                        |
| TOP CHORD              | 2x4 SPF No.2                                |                           |               | the bottom chord in all are                                  |              |                  |           |       |               |            |                |                        |
| BOT CHORD              | 2x4 SPF No.2                                |                           |               | 06-00 tall by 2-00-00 wide                                   |              |                  |           |       |               |            |                |                        |
| WEBS                   | 2x3 SPF No.2                                |                           |               | ord and any other member<br>I bearings are assumed to I      |              |                  | •         |       |               |            |                |                        |
| OTHERS                 | 2x3 SPF No.2                                |                           |               | ovide mechanical connection                                  |              |                  | 0         |       |               |            |                |                        |
| BRACING                | <b>.</b>                                    |                           | ,<br>ha       | aring plate capable of with                                  |              |                  |           |       |               |            |                |                        |
| TOP CHORD              | Structural wood she<br>6-0-0 oc purlins, ex |                           | 5,            | 90 lb uplift at joint 6 and 13                               | 38 lb uplift | at joint 7.      | onn       |       |               |            |                |                        |
| BOT CHORD              | Rigid ceiling directly<br>bracing.          | applied or 10-0-0 o       | Íni           | nis truss is designed in acco<br>ternational Residential Cod | le sections  | s R502.11.1 a    | ind       |       |               |            |                |                        |
| REACTIONS              | (size) 1=14-4-8,                            | 5=14-4-8, 6=14-4-8        | ζ             | 302.10.2 and referenced sta<br>CASE(S) Standard              | andard AN    | ISI/TPI 1.       |           |       |               |            |                |                        |
|                        | 7=14-4-8                                    |                           | LUAD          |  |              |                  |           |       |               |            |                |                        |
|                        | Max Horiz 1=246 (LC                         | ,                         | 100           |  |              |                  |           |       |               |            |                |                        |
|                        | Max Uplift 5=-33 (LC                        | 5), 6=-90 (LC 8), 7       | =-138         |  |              |                  |           |       |               |            |                |                        |
|                        | (LC 8)<br>Max Grav 1=226 (LC                | C 16) 5-192 (I C 2)       |               |  |              |                  |           |       |               |            |                |                        |
|                        |   | C 2), 7=527 (LC 2)        | •             |  |              |                  |           |       |               |            |                |                        |
| FORCES                 | (lb) - Maximum Corr                         |                           |               |  |              |                  |           |       |               |            |                |                        |
|                        | Tension                                     |                           |               |  |              |                  |           |       |               |            |                |                        |
| TOP CHORD              | 1-2=-196/82, 2-3=-1<br>4-5=-116/46          | 51/40, 3-4=-122/48,       |               |  |              |                  |           |       |               |            |                |                        |
| BOT CHORD<br>WEBS      | 1-7=-80/60, 6-7=-80<br>3-6=-269/128, 2-7=-  | ,                         |               |  |              |                  |           |       |               |            |                |                        |
| NOTES                  |   |                           |               |  |              |                  |           |       |               |            |                |                        |
|                        | CE 7-16; Vult=115mph                        | (3-second quet)           |               |  |              |                  |           |       |               |            |                | an                     |
|                        | nph; TCDL=6.0psf; BC                        |                           | Cat           |  |              |                  |           |       |               |            | OF             | MIG                    |
|                        | Enclosed; MWFRS (er                         |                           |               |  |              |                  |           |       |               |            | BIE            | - sold                 |
|                        | left and right exposed                      |                           |               |  |              |                  |           |       |               | 6          | TATE OF        | N SY                   |
| right expo             | sed; Lumber DOL=1.6                         | 0 plate grip DOL=1.       | 60            |  |              |                  |           |       |               | B          | -,             |                        |
|                        | signed for wind loads in                    |                           |               |  |              |                  |           |       |               | R          | / SEV          | IER \ Y                |
|                        | studs exposed to wind                       |                           |               |  |              |                  |           |       |               | 20*        | 1 41           | <b>∂</b>               |
|                        | lard Industry Gable En                      |                           |               |  |              |                  |           |       |               | 1 Yra      |                | Xing                   |
| or consult             | qualified building design                   | oner as per ANSI/TE       | 기 1           |  |              |                  |           |       |               |            |                |                        |

- 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.



NUMBER

PE-200101880

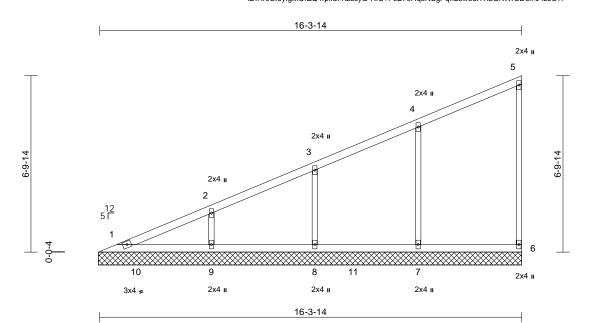
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



| Job     | Truss | Truss Type | Qty Ply Lot 166 HT |   | Lot 166 HT               |           |  |
|---------|-------|------------|--------------------|---|--------------------------|-----------|--|
| B240067 | V18   | Valley     | 1                  | 1 | Job Reference (optional) | 164780457 |  |

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries. Inc. Tue Apr 09 09:18:06 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:44.6

| 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  | CSI<br>TC<br>BC<br>WB<br>Matrix-S   | 0.37<br>0.16<br>0.18  | <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>6 | 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: 50 lb | <b>GRIP</b><br>197/144<br>FT = 10% |
|--|---|--|--|--|---|---|--|---------------------------------|----------------------|-----------------------------|--------------------------|---------------------------------|------------------------------------|
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS | 2x4 SPF No.2<br>2x4 SPF 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=16-4-8,<br>8=16-4-8,<br>Max Horiz 1=283 (LC<br>Max Uplift 6=-35 (LC | athing directly applic<br>cept end verticals.<br>applied or 10-0-0 or<br>, 6=16-4-8, 7=16-4-8<br>C 5)<br>C 5), 7=-105 (LC 8),<br>-103 (LC 8) | 6)<br>7)<br>ed or 8)<br>9)<br>c<br>3, 10<br>8=-92 LC | This truss ha<br>chord live loa<br>* This truss I<br>on the bottor<br>3-06-00 tall I<br>chord and ar<br>All bearings<br>Provide mec<br>bearing plate<br>6, 105 lb upl<br>uplift at joint<br>) This truss is<br>International | as been designed<br>ad nonconcurrent<br>nas been designed<br>or chord in all area<br>by 2-00-00 wide w<br>by other members<br>are assumed to be<br>hanical connectio<br>e capable of withsi<br>fif at joint 7, 92 lb<br>9.<br>designed in accor<br>Residential Code<br>nd referenced star | with any<br>d for a liv<br>as where<br>rill fit betw<br>, with BC<br>e SPF No<br>n (by oth<br>tanding 3<br>uplift at ju<br>rdance w<br>e sections | other live load<br>e load of 20.0<br>a rectangle<br>veen the botto<br>DL = 10.0psf<br>5.2.<br>ers) of truss to<br>5 lb uplift at jo<br>bint 8 and 100<br>ith the 2018<br>c R502.11.1 a | Opsf<br>om<br>o<br>oint<br>3 lb |                      |                             |                          | . orgina do lu                  |                                    |
|  | · · · · ·   | C 2), 8=364 (LC 2),  |  |  |   |   |  |                                 |                      |                             |                          |                                 |                                    |
| FORCES   | ,   | 87/50, 3-4=-158/54,  |  |  |   |   |  |                                 |                      |                             |                          |                                 |                                    |
| BOT CHORD  | 4-5=-131/57, 5-6=-1<br>1-9=-92/70, 8-9=-92<br>6-7=-92/70  |  |  |  |   |   |  |                                 |                      |                             |                          |                                 |                                    |
| Vasd=91r<br>II; Exp C;   | 4-7=-308/142, 3-8=-<br>CE 7-16; Vult=115mph<br>nph; TCDL=6.0psf; BC<br>Enclosed; MWFRS (er  | i (3-second gust)<br>DL=6.0psf; h=25ft; (<br>nvelope) exterior zor   | Cat.<br>ne;  |  |   |   |  |                                 |                      |                             |                          | STATE OF I                      | MISSOLA                            |

- cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 2) Truss designed for wind loads in the plane of the truss
- only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) All plates are 2x4 MT20 unless otherwise indicated. Gable requires continuous bottom chord bearing.
- 4)
- 5) Gable studs spaced at 4-0-0 oc.



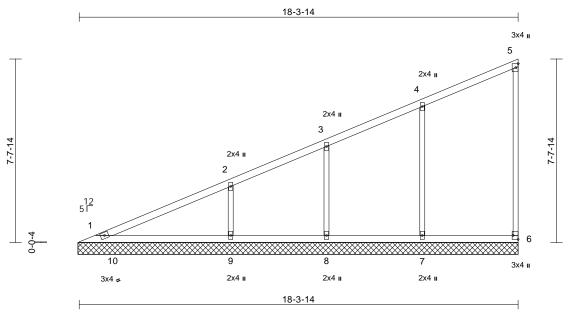
 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not besign value for use only with with twit even connectors. This design is based only upon parameters shown, and is for an individual building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer. 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 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)

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| Job     | Truss | Truss Type | Qty | Ply Lot 166 HT |                          |           |  |
|---------|-------|------------|-----|----------------|--------------------------|-----------|--|
| B240067 | V19   | Valley     | 1   | 1              | Job Reference (optional) | 164780458 |  |

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. Tue Apr 09 09:18:06 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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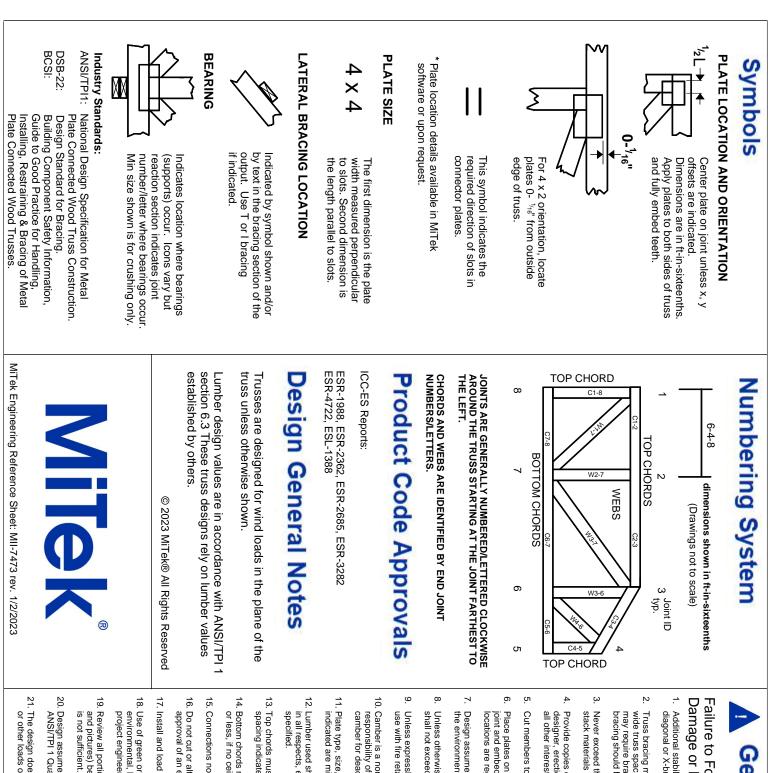


Scale = 1:48.1 te Offsets (X Y): [6:Edge 0-2-8] PI

| Plate Offsets   | (X, Y): [6: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  | 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  | 0.48<br>0.23<br>0.25   | DEFL<br>Vert(LL)<br>Vert(TL)<br>Horiz(TL)   | in<br>n/a<br>n/a<br>0.00             | (loc)<br>-<br>-<br>6 | 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: 58 lb | <b>GRIP</b><br>197/144<br>FT = 10% |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS<br>FORCES<br>TOP CHORD<br>BOT CHORD<br>BOT CHORD<br>WEBS<br>NOTES<br>1) Wind: AS<br>Vasd=911<br>II; Exp C; | 10.0<br>2x4 SPF No.2<br>2x3 SPF No.2<br>2x3 SPF No.2<br>2x3 SPF No.2<br>3 SPF No. | Code<br>heathing directly applied<br>except end verticals.<br>tly applied or 10-0-0 or<br>8, 6=18-4-8, 7=18-4-8<br>8, 9=18-4-8<br>LC 5), 7=-109 (LC 8), 19<br>9=-140 (LC 8)<br>LC 2), 8=330 (LC 2), 10<br>pmpression/Maximum<br>-197/39, 3-4=-171/57,<br>-108/42<br>-104/79, 7-8=-104/79,<br>=-234/127, 2-9=-396/1<br>bh (3-second gust)<br>3CDL=6.0psf; h=25ft; (<br>envelope) exterior zor | 5)<br>6)<br>c<br>3, 9)<br>8=-78 LC<br>9=538 | This truss ha<br>chord live loa<br>* This truss li<br>on the bottoo<br>3-06-00 tall I<br>chord and an<br>All bearings<br>Provide mec<br>bearing plate<br>6, 109 lb upl<br>uplift at joint<br>This truss is<br>International | as been designed<br>ad nonconcurrent<br>has been designee<br>m chord in all area<br>by 2-00-00 wide w<br>ny other members<br>are assumed to b<br>chanical connectio<br>e capable of withs<br>ift at joint 7, 78 lb<br>9.<br>designed in accor<br>Residential Code<br>nd referenced sta | for a 10.<br>with any<br>d for a liv<br>as where<br>vill fit betw<br>s, with BC<br>e SPF N<br>n (by oth<br>tanding 3<br>uplift at ju<br>rdance w<br>e sections | D psf bottom<br>other live loa<br>e load of 20.0<br>a rectangle<br>ween the bott<br>DL = 10.0psf<br>o.2.<br>ers) of truss t<br>88 lb uplift at j<br>oint 8 and 140<br>ith the 2018<br>s R502.11.1 a | Opsf<br>om<br>c<br>o<br>oint<br>O Ib |                      |                             |                          | Weight: 58 lb                   | MISSOUR<br>T M.                    |
| <ul> <li>right expo</li> <li>2) Truss de only. For see Stand or consult</li> <li>3) Gable red</li> </ul>  | osed; Lumber DOL=1<br>signed for wind loads<br>studs exposed to wi<br>dard Industry Gable B   |  | 60<br>iss<br>),<br>ole,                     |   |  |  |   |                                      |                      |                             | and set                  | PE-2001                         | LENGI                              |

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- 1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor1 bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- 5. Cut members to bear tightly against each other
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- 14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.