

Carter Sanford Component Plant 298 Harvey Faulk Rd Sanford, NC 27332

Phone #:919-775-1450

# Builder: Wellco Const. Model: Plan 1 BNS GRH



# THE PLACEMENT PLAN NOTES:

1. The Placement Plan is a diagram for truss installation. It is not an engineered drawing and has not been reviewed by an engineer. The Owner/Building Designer is responsible for obtaining an engineer's review if one is required by the local jurisdiction.

2. The responsibilities of the Owner, Contractor, Building Designer, Component Designer and Component Manufacturer shall be as set forth in ANSI/TPI 1. Capitalized terms shall be as defined in ANSI/TP 1 unless otherwise indicated.

3. Each Component is designed as an individual component utilizing information provided by others. The Owner/Building Designer is responsible for reviewing all Component Submittal Packages and individual Component Design Drawings for compliance with the Construction Documents and compatibility with the overall Building design.

4. Contractor will not proceed with component installation until the Owner/Building Designer has reviewed the Component Submittal Package. Questions on the suitability of any Component will be resolved by the Building Designer.

5. The Building Designer and Contractor are responsible for all temporary and permanent bracing.

6. The Placement Plan assumes the building is dimensionally correct, structurally sound, and in a suitable condition to support each Component during installation and thereafter, including but not limited to installation of all bearing points. Proper design and construction of all structural components, including foundations, headers, beams, walls and columns are the responsibility of the Owner, Building Designer and Contractor.

7. Do not cut, drill, or modify any Component without first consulting the Component Manufacturer or Building Designer. Damaged Components shall not be installed unless directed by the Building Designer or approved by the Component Manufacturer.

8. Components must be handled and installed following all applicable safety standards and best practices, including but not limited to BCSI, OSHA, TPI and local codes. Failure to properly handle, brace or otherwise install Component can result in serious injury or death.

Apprved by: \_\_\_\_\_

Date: \_\_\_\_\_









**IER** 

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PLANT



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| SS TO TRUSS CONNECTIONS ARE TOE-NAILED, UNLESS NOTED OTHERWISE. | <b>THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.</b> These trusses are designed as individual components to be incorporated into the building design at the specification of the building designer. See Individual design sheets for | each truss design identified on the placement drawing. The building designer<br>is responsible for temporary and permanent bracing of the roof and floor<br>evetems and for the overall structure. The design of the trues support | structure including headers, beams, walls, and columns is the responsibility of<br>the building designer. For general guidance regarding the bracing, consult | "Bracing of Wood Truss" available from the Truss Plate Institute, 583 D'Onifrio<br>Drive: Madison, WI 53179 |                       |
| ENSIONS ARE READ AS: FOOT-INCH-SIXTEENTH.                       |  |  | <b>Building Materials</b>   | A Division of the<br>Genter Lumber Gommenny   |                       |
| TED TOGETHER PRIOR TO ADDING ANY LOADS.                         | Wellco Contractor  | 14 Overhills Creek-Roof-1 BNS  | GRH   | COMPONENT   | <b>PLACEMENT PLAN</b> |
| NNEC  | Scale:   | N  | TS  |   |                       |
|   | Date:<br>1(  | 0/15<br>Des  | /202<br>igner:  | 24  |                       |
| UST B   | 24   | Projec   | t Num   | ber:  |                       |
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| <b>k</b>  |  |  |   |   |                       |

![](_page_2_Picture_0.jpeg)

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 24100066-01 14 Overhills Creek-Roof-1 BNS GRH

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Carter Components (Sanford, NC)).

Pages or sheets covered by this seal: I68913518 thru I68913561

My license renewal date for the state of North Carolina is December 31, 2024.

North Carolina COA: C-0844

![](_page_2_Picture_7.jpeg)

October 15,2024

# Gilbert, Eric

**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.

| Job         | Truss | Truss Type                      | Qty | Ply | 14 Overhills Creek-Roof-1 BNS GRH |           |
|-------------|-------|---------------------------------|-----|-----|-----------------------------------|-----------|
| 24100066-01 | A1    | Piggyback Base Structural Gable | 1   | 1   | Job Reference (optional)          | 168913518 |

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:51 ID:v28o\_B5VsOnzjXVnQPrKPoyV?V1-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

![](_page_3_Figure_3.jpeg)

|                | 6-4-3 | 12-6-11 | 19-10-5 | 26-0-13 | 32-3-4 | 38-5-8 |
|----------------|-------|---------|---------|---------|--------|--------|
|                | 6-4-3 | 6-2-8   | 7-3-10  | 6-2-8   | 6-2-7  | 6-2-4  |
| Scale = 1:79.4 |       |         |         |         |        |        |

Plate Offsets (X, Y): [5:0-6-4,0-2-0], [6:0-4-4,0-2-0], [9:0-6-12,0-3-0]

| Loading<br>TCLL (roof)<br>Snow (Pf/Pg)<br>TCDL<br>BCLL<br>BCDL   | (psf)<br>20.0<br>18.9/20.0<br>10.0<br>0.0*<br>10.0   | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code  | 1-11-4<br>1.15<br>1.15<br>YES<br>IRC2021/   | /TPI2014   | CSI<br>TC<br>BC<br>WB<br>Matrix-MSH   | 0.72<br>0.67<br>0.67                       | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT) | in<br>-0.13<br>-0.21<br>0.05 | (loc)<br>22-24<br>22-24<br>19 | l/defl<br>>999<br>>999<br>n/a | L/d<br>240<br>180<br>n/a  | PLATES<br>MT20<br>Weight: 253 lb | <b>GRIP</b><br>244/190<br>FT = 20% |  |  |
|--|--|---|---|--|---|--|--|------------------------------|-------------------------------|-------------------------------|---|----------------------------------|------------------------------------|--|--|
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>JOINTS<br>REACTIONS | DL         10.0           IMBER         Image: None of the state of |   |   | <ul> <li>VEDS 2222-47/566, 12-19=-94/29, 3-25=0/187, or the 3-24=-529/193, 8-20=-148/68, 3-06- 8-22=-358/173, 9-20=0/479, 9-19=-2303/305, 10-11=-149/44, 13-18=-171/62, 10) All be 11/1 Provide 14-17=-175/59</li> <li>VInbalanced roof live loads have been considered for this design.</li> <li>Vind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-11-6 to 2-10-13, Interior (1) 23-10-3 to 39-5-3 zone; cantilever left and right exposed; end vertical left and right exposed; porch right exposed; c-C for members and forces &amp; MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33</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 gualified 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 = 10.0psf.</li> <li>10) All bearings are assumed to be SP No.2.</li> <li>11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 129 lb uplift at joint 15, 59 lb uplift at joint 18, 4 lb uplift at joint 17 and 129 uplift at joint 15.</li> <li>12) Graphical purlin representation does not depict the sit or the orientation of the purlin along the top and/or bottom chord.</li> <li>LOAD CASE(S) Standard</li> </ul> |                                  |                                    |  |  |
| FORCES<br>TOP CHORD<br>BOT CHORD   | (b) - Maximum Com<br>Tension<br>1-2=0/55, 2-3=-2010<br>5-6=-1146/343, 6-8=<br>8-9=-1749/286, 9-10<br>9-11=-33/652, 11-13<br>14-15=-106/702, 15<br>2-26=-1575/300<br>25-26=-146/470, 24<br>22-24=0/1071, 20-2:<br>19-20=-74/917, 18-1<br>17-18=-657/134, 15   | TCLL: ASCE<br>Plate DOL=1<br>DOL=1.15 Pl<br>Exp.; Ce=0.9<br>Unbalanced<br>design.<br>This truss ha<br>load of 12.0 g<br>overhangs no<br>Provide adeo<br>Gable studs | 7-16; Pr=20.0 psf (<br>15); Pg=20.0 psf; late DOL=1.15); ls=<br>; Cs=1.00; Ct=1.10<br>snow loads have be<br>s been designed fo<br>bsf or 2.00 times fla<br>on-concurrent with<br>uate drainage to pl<br>spaced at 2-0-0 oc. | (roof LL<br>Pf=18.9<br>1.0; Rc<br>, Lu=50<br>een cor<br>r greate<br>t roof lo<br>other liv<br>revent v   | : Lum DOL=1<br>psf (Lum<br>ough Cat B; Fr)-0-0<br>isidered for th<br>er of min roof<br>pad of 13.9 ps<br>re loads.<br>vater ponding | I.15<br>ully<br>iis<br>live<br>sf on<br>I. |  | Mannan.                      |                               | SEA<br>0363                   | L<br>22<br>ILBERT   | Mounning                         |                                    |  |  |

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 **ANSUTP11 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.sbcaccomponents.com)

TRENCO AMITEK ATTILIA

818 Soundside Road Edenton, NC 27932

October 15,2024

| Job         | Truss | Truss Type     | Qty | Ply | 14 Overhills Creek-Roof-1 BNS GRH |           |
|-------------|-------|----------------|-----|-----|-----------------------------------|-----------|
| 24100066-01 | A2    | Piggyback Base | 5   | 1   | Job Reference (optional)          | l68913519 |

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|   |  | -1-0-0<br>   | <u>6-4-4</u><br>6-4-4   |  | <u>12-4-15</u><br>6-0-12   |  | 20-0-1<br>7-7-2  |  | <u>26-0-13</u><br>6-0-12  | <u>29-4-</u><br>3-3-                                       | <u>11 32</u><br>4 2-1               | - <u>3-4</u><br>0-9                   | <u>38-5-8</u><br>6-2-4                     | 39-{<br> <br>1-0   | 5-8<br>H<br>-0         |
|---|--|--|---|--|--|--|--|--|---|--|-------------------------------------|---------------------------------------|--|--------------------|------------------------|
|   | $\begin{array}{c c c c c c c c c c c c c c c c c c c $   | 4х8 г<br>2<br>25 📓<br>3х5 ш  | 2ĝ <sup>0</sup>   | $10^{12}$ 3<br>3x5 $\neq$<br>31<br>3<br>3<br>24<br>4<br>4<br>3<br>24<br>4x5= | 42   | 5<br>5<br>23<br>3x5=   | 33 34 35<br>33 34 35<br>20 18<br>22 21 19<br>3x8= 2x4<br>17-6 <sup>3x6</sup> =<br>17-6 <sup>3x6</sup> =  | 6<br>6<br>8  | 36<br>37<br>37<br>47<br>15<br>15<br>14<br>2x4 II<br>3x5=<br>2x4=<br>2x4=  | 2x4 µ<br>38<br>7   | 5x10 =<br>8<br>13<br>3x6            | 2x4 ∥<br>9<br>9<br>12<br>= 3x5=       | 12<br>14<br>390                            | 410<br>9x5=        | 11 °<br>7 40<br>8      |
|   |  | L  | 6-4-4   |  | 12-6-11  | 14-0-  | 15-11-5<br>15-6-6<br>0 15-10-9   | 22-6-  | 24-571<br>24-1-9<br>1 24-0-13   | 68 <b>–</b><br>)<br>30-0-(                                 | _32                                 | 2-3-4                                 | 38-5-8                                     |                    |                        |
| Scale = 1:86.7  |  |  | 6-4-4   |  | 6-2-8  | 1-5-   | 5 0-4-4<br>1-6-61-6-12   | 5-0-0  | 1-6-12<br>0-0-12  | 5-6-3  | 2                                   | -3-4                                  | 6-2-4                                      |                    |                        |
| Plate Offsets (2  | X, Y): [5:0-6-4,0-2-   | 0], [6:0-6-  | 4,0-2-0], [14:  | :0-4-0,0-2   | 2-8]   |  | 0-0-12   |  | 0-4   | -  |                                     |                                       |  |                    |                        |
| Loading<br>TCLL (roof)<br>Snow (Pf/Pg)<br>TCDL<br>BCLL<br>BCDL  | (psf)<br>20.0<br>18.9/20.0<br>10.0<br>0.0  | Space<br>Plate<br>Lumb<br>Rep<br>* Code  | Grip DOL<br>Grip DOL<br>Der DOL<br>Stress Incr  | 2-0-0<br>1.15<br>1.15<br>YES<br>IRC20  | )21/TPI2014  | C<br>T<br>B<br>W<br>M  | <b>SI</b><br>C<br>C<br>/B<br>atrix-MSH   | 0.76<br>0.63<br>0.99   | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)  | in (1<br>0.05 12<br>-0.21 15<br>0.06                       | oc) I/c<br>-28 >9<br>-19 >9<br>12 I | lefl L/<br>199 24<br>199 18<br>n/a n/ | d <b>PLATE</b><br>0 MT20<br>0<br>a Weight: | <b>3</b><br>270 lb | <b>GRIP</b><br>244/190 |
|   | 10.0   | _  |   |  | 1) Unbalar   | ced roo  | f live loads hav   | e been (   | considered for  |  |                                     |                                       | weight.                                    | 27010              | 11 - 2076              |
| TOP CHORD<br>BOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>REACTIONS<br>FORCES<br>TOP CHORD | 2x4 SP 2400F 2.0<br>2x4 SP No.2 *Exc<br>2400F 2.0E<br>2x4 SP No.3 *Exc<br>23-5,6-21,6-14,5-2<br>SP No.2<br>Structural wood sl<br>5-2-2 oc purlins, 6<br>2-0-0 oc purlins (5<br>Rigid ceiling direc<br>bracing, Except:<br>6-0-0 oc bracing:<br>1 Row at midpt<br>(size) 10=0-3-<br>Max Horiz 25=-226<br>Max Uplift 10=-168<br>25=175<br>(lb) - Maximum Co<br>Tension<br>1-2=0/57, 2-3=-23<br>5-6=-1497/192.6 | E<br>ept* 20-1<br>ept*<br>21:2x4 SF<br>heathing<br>except er<br>5-3-13 ma<br>tly applier<br>10-12,17-<br>3-23<br>-8, 12=0-<br>6 (LC 13)<br>0 (LC 62),<br>8 (LC 52),<br>8 (LC 50)<br>compression<br>43/144, 3<br>7=-2348/ | 6,13-22:2x4 \$<br>P No.2, 25-2:2<br>directly applie<br>id verticals, a<br>ix.): 5-6.<br>d or 10-0-0 or<br>18,16-17.<br>3-8, 25=0-3-8<br>12=2384 (LC<br>)<br>Dn/Maximum<br>8-5=-1978/211<br>192. | SP 2x6<br>ed or<br>nd c<br>c 254), 254),                                     | <ul> <li>this desi</li> <li>Wind: A</li> <li>Vasd=10</li> <li>II; Exp E</li> <li>Exteriori</li> <li>12-4-15,</li> <li>16-3-2 tr</li> <li>(1) 23-11</li> <li>exposed</li> <li>reaction</li> <li>DOL=1.</li> <li>TCLL: A</li> <li>Plate DO</li> <li>DOL=1.</li> <li>Exp.; Ce</li> <li>Unbalar</li> <li>design.</li> <li>This trust</li> <li>load of 1</li> <li>overhan</li> <li>200.0lb</li> <li>200.0lb</li> <li>Provido</li> </ul> | ign.<br>SCE 7-1<br>03mph;<br>;; Enclos<br>(2E) -0'<br>, Exterio<br>0-3 to 38<br>1; end v<br>4; C-C foi<br>s showr<br>33<br>SCE 7<br>DL=1.15<br>15 Plate<br>e=0.9; C<br>cced snor<br>ss has b<br>12.0 psf<br>gs non-t<br>AC unit<br>end, su<br>adeque | 6; Vult=130mp<br>TCDL=6.0psf; B<br>sed; MWFRS (e<br>11-6 to 2-10-13<br>r(2R) 12-4-15 t<br>, Exterior(2R) 2<br>9-5-3 zone; can<br>ertical left and I<br>r members and<br>; Lumber DOL=<br>16; Pr=20.0 psf;<br>DOL=1.15); Is<br>s=1.00; Ct=1.1<br>w loads have b<br>een designed fr<br>or 2.00 times fl<br>concurrent with<br>load placed on<br>pported at two | h (3-sec<br>BCDL=6<br>BCDL=6<br>, Interior<br>o 16-3-2<br>20-0-1 tr<br>tillever lo<br>inght exp<br>forces 4<br>=1.60 pl<br>(roof LL<br>Pf=18.5<br>=1.0; Rc<br>0, Lu=50<br>been cor<br>or great<br>at roof lo<br>other lin<br>the bott<br>points, f | and gust)<br>.0psf; h=25ft;<br>) and C-C<br>(1) 2-10-13 tot<br>, Interior (1)<br>23-10-3, Inter-<br>aft and right<br>ossed; porch ri<br>MWFRS for<br>ate grip<br>:: Lum DOL=1<br>) psf (Lum<br>ugh Cat B; Fu<br>)-0-0<br>isidered for thi<br>er of min roof I<br>ad of 13.9 psl<br>re loads.<br>om chord, 20-<br>5-0-0 apart. | Cat.<br>ior<br>ght<br>15<br>Illy<br>s<br>ive<br>ion<br>D-1 |                                     |                                       | in ATE                                     | CA                 | NUMITION OF THE STATE  |
| BOT CHORD<br>WEBS   | 7-8=-2296/54, 8-9<br>10-11=0/23, 2-25=<br>24-25=-138/495, 2<br>21-23=0/1308, 19<br>14-15=0/2299, 12<br>18-20=0/30, 17-18<br>3-24=-1/199, 3-23<br>2-24=0/1345, 20-2   | 2348/<br>=0/771, 9<br>=-1822/19<br>23-24=0/1<br>-21=0/22<br>-14=0/11<br>3=-1194/0<br>=-548/20<br>21=0/353  | )-10=-8/826,<br>)9<br>1700,<br>99, 15-19=0/2<br>80, 10-12=-7(<br>0, 16-17=-86/4<br>6, 5-23=-91/5<br>, 6-20=0/358,   | 2299,<br>63/4,<br>8<br>523,  | <ol> <li>Provide</li> <li>* This trion</li> <li>on the b</li> <li>3-06-00</li> <li>chord ar</li> <li>All bearing</li> <li>Provide</li> <li>bearing</li> <li>10.</li> </ol>   | adequa<br>uss has<br>ottom cl<br>tall by 2<br>nd any o<br>ngs are<br>mechar<br>plate ca  | te drainage to p<br>been designed<br>nord in all areas<br>-00-00 wide wil<br>ther members,<br>assumed to be<br>ical connection<br>pable of withsta   | for a liv<br>for a liv<br>where<br>If fit betw<br>with BC<br>SP No.<br>(by oth<br>anding 1   | water ponding.<br>e load of 20.0p<br>a rectangle<br>veen the botton<br>DL = 10.0psf.<br>2 .<br>ers) of truss to<br>60 lb uplift at j  | osf<br>m<br>oint   |                                     | Conner                                | 2170<br>0                                  | SEAI               |                        |
| NOTES   | 6-16=-12/816, 14-<br>9-12=-457/175, 8-<br>15-17=0/213, 14-1<br>18-21=-1304/0, 5-   | ·16=-9/78<br>·12=-2837<br>17=-1222<br>·21=0/361  | 4, 7-14=-493,<br>7/0, 8-14=0/6<br>/0, 18-19=0/2   | /252,<br>39,<br>256,   | 11) Graphic<br>or the or<br>bottom of<br>LOAD CAS  | al purlin<br>rientation<br>chord.<br>E <b>(S)</b> S  | representation<br>n of the purlin a<br>tandard   | does no<br>long the  | ot depict the si<br>top and/or  | ze   |                                     | in the                                | CRIC .                                     | GINF<br>1. G       | E.R. KINN              |
|   |  |  |   |  |  |  |  |  |   |  |                                     |                                       | 0  | ctober             | 15,2024                |

![](_page_4_Picture_5.jpeg)

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 property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/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.sbcacomponents.com)

| Job         | Truss | Truss Type     | Qty | Ply | 14 Overhills Creek-Roof-1 BNS GRH |           |
|-------------|-------|----------------|-----|-----|-----------------------------------|-----------|
| 24100066-01 | A3    | Piggyback Base | 2   | 1   | Job Reference (optional)          | 168913520 |

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:52 ID:11gD1y0g?HIInzz4cX5kA0yVHkI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

![](_page_5_Figure_3.jpeg)

|  | F   | 6-4-4<br>6-4-4   | 12-4-15<br>6-0-12<br>5x8=  | <u>20-0-1</u><br>7-7-2  | 6x8=   | <u>26-0-13</u><br>6-0-12   | <u>29-4-11</u><br>3-3-14                                     | <u>32-3-4</u><br>2-10-9  |   | <u>38-5-8</u><br>6-2-4       | 39-5-8<br>1-0-0                      |       |
|--|---|--|--|---|--|--|--|--|---|------------------------------|--------------------------------------|-------|
|  | 11-2-5<br>  | $10^{12} 33$ $3x5 =$ $30^{3}$ $2^{29}$ $28^{2$ | 4<br>66 ¢<br>1<br>41 22 3<br>3x5=  | 32 334 35<br>32 334 35<br>32 334 35<br>32 334 35<br>32 334 35<br>34<br>35<br>34<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35   | 5  | 36<br>37<br>3<br>3<br>3<br>4<br>5<br>14<br>13<br>2x4 II<br>3x5=  | 2x4 #<br>8<br>6<br>5x1<br>7                                  | 0.2<br>7 2x<br>7 2x<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7 | 12<br>7<br>8<br>1<br>5=   | 4<br>3940                    | 9 10 °,<br>40<br>3x5=                |       |
| Scale = 1:83.5   | ⊢<br>X X): [4:0-6-4:0-2-0]  | 6-4-4<br>6-4-4   | <u>12-6-11</u> <u>14-0</u><br>6-2-8 <u>1-5-</u><br>0-2-8] [24:Edge 0-  | 17-6 <sup>2</sup> ¥ <sup>4</sup> "<br>15-11-5<br>15-6-6<br>-0 15-10-9<br>-0 15-10-9<br>5 0-4-4<br>1-6-6 1-6-12<br>7-41<br>12  | <u>22-6-1</u><br>5-0-0   | 2x4=<br>24-5-162<br>24-0-13<br>  | <u>30-0-0</u><br>5-6-3                                       | 32-3-4<br>2-3-4  |   | <u>38-5-8</u><br>6-2-4       |                                      |       |
| Loading<br>TCLL (roof)<br>Snow (Pf/Pg)<br>TCDL<br>BCLL<br>BCDL   | (psf)<br>20.0<br>18.9/20.0<br>10.0<br>0.0*<br>10.0  | Spacing     2-C       Plate Grip DOL     1.1       Lumber DOL     1.1       Rep Stress Incr     YE       Code     IRC  | 0<br>5<br>5<br>S<br>C2021/TPI2014  | CSI<br>TC<br>BC<br>WB<br>Matrix-MSH   | 0.76<br>0.64<br>0.99   | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)   | in (loc)<br>0.05 11-27<br>-0.21 14-18<br>0.06 11             | l/defl<br>>999<br>>999<br>n/a  | L/d<br>240<br>180<br>n/a  | PLATES<br>MT20<br>Weight: 26 | <b>GRIP</b> 244/190<br>7 lb FT = 20% |       |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>WEBS<br>REACTIONS<br>FORCES<br>TOP CHORD<br>BOT CHORD<br>BOT CHORD | 2x4 SP 2400F 2.0E<br>2x4 SP No.2 *Excep<br>2400F 2.0E<br>2x4 SP No.3 *Excep<br>22-4,5-20,5-13,4-20:<br>Structural wood shea<br>5-2-1 oc purlins, exc<br>2-0-0 oc purlins (5-3<br>Rigid ceiling directly<br>bracing, Except:<br>6-0-0 oc bracing: 9-1<br>1 Row at midpt<br>(size) 9=0-3-8, 1<br>Max Horiz 24=-219 (I<br>Max Grav 9=154 (LC<br>24=1706 (<br>(lb) - Maximum Com<br>Tension<br>1-2=-2369/150, 2-4=<br>4-5=-1505/195, 5-6=<br>6-7=-2301/57, 7-8=0<br>9-10=0/23, 1-24=-17<br>23-24=-101/446, 22-<br>20-22=0/1317, 18-2C<br>13-14=0/230, 11-13<br>17-19=0/30, 16-17=-<br>2-23=0/210, 4-22=-9 | t* 12-21,19-15:2x4 SP<br>t*<br>2x4 SP No.2<br>athing directly applied or<br>cept end verticals, and<br>-4 max.): 4-5.<br>applied or 10-0-0 oc<br>11,16-17,15-16.<br>2-22<br>(1=0-3-8, 24=0-3-8<br>LC 13)<br>C 62)<br>C 52), 11=2392 (LC 54),<br>(LC 60)<br>pression/Maximum<br>-1993/220,<br>-2353/195,<br>//779, 8-9=0/836,<br>'65/144<br>23=0/1729,<br>D=0/2304, 14-18=0/2304,<br>3=0/1179, 9-11=-773/0,<br>1193/0, 15-16=-85/8<br>17/541, 1-23=0/1433,  | <ol> <li>Unbalanced<br/>this design.</li> <li>Wind: ASCE<br/>Vasd=103m;<br/>II; Exp B; En-<br/>Exterior(2E))<br/>Exterior(2E))<br/>Exterior(2R))<br/>20-0-1, Exter<br/>24-0-10 to 35<br/>exposed; en-<br/>exposed; en-<br/>exposed; en-<br/>exposed; en-<br/>creactions sho<br/>DOL=1.33</li> <li>TCLL: ASCE<br/>Plate DOL=1<br/>DOL=1.15 Pl<br/>Exp.; Ce=0.9</li> <li>Unbalanced<br/>design.</li> <li>This truss ha<br/>load of 12.0 p<br/>overhangs m</li> <li>200.0lb AC u<br/>from left end,</li> <li>Provide adect</li> <li>* This truss h<br/>on the bottom<br/>3-06-00 tall b<br/>chord and ar</li> <li>All bearings a</li> <li>Provide mect</li> </ol> | roof live loads have<br>7-16; Vult=130mph<br>bt; TCDL=6.0psf; E<br>closed; MWFRS (e<br>0-1-12 to 4-2-5, Int<br>12-4-15 to 16-5-8,<br>ior(2R) 20-0-1 to 2<br>-5-3 zone; cantilev<br>d vertical left and ri-<br>for members and<br>wn; Lumber DOL=<br>7-16; Pr=20.0 psf;<br>ate DOL=1.15); Is=<br>t; Cs=1.00; Ct=1.10;<br>snow loads have be<br>s been designed for<br>osf or 2.00 times file<br>con-concurrent with<br>nit load placed on<br>s upported at two plates designed<br>n chord in all areas<br>y 2-00-00 wide will<br>y other members, nare assumed to be<br>hanical connection | e been of<br>n (3-sec<br>SCDL=6<br>nvelope<br>erior (1)<br>Interior<br>4-0-10,<br>ver left a<br>ight exp<br>forces a<br>1.60 pl<br>(roof LL<br>Pf=18.9<br>=1.0; Rc<br>other lin<br>the bott<br>other lin<br>the bott<br>other lin<br>the bott<br>where<br>if the betw<br>where<br>if the betw<br>other lin<br>to prevent<br>for a liv<br>where<br>if the betw<br>other lin<br>to prevent<br>for a liv<br>to prevent<br>to prevent<br>the betw<br>the bet | considered for<br>cond gust)<br>(.0psf; h=25ft; C<br>e) and C-C<br>(1) 16-5-8 to<br>Interior (1)<br>and right<br>bosed; porch rig<br>& MWFRS for<br>ate grip<br>c: Lum DOL=1.<br>D psf (Lum<br>Dough Cat B; Ful<br>D-0-0<br>hsidered for this<br>er of min roof lin<br>boad of 13.9 psf<br>ve loads.<br>com chord, 20-0<br>5-0-0 apart.<br>water ponding.<br>e load of 20.0p<br>a rectangle<br>veen the botton<br>CDL = 10.0psf.<br>2. | Cat.<br>15,<br>9ht<br>15<br>ly<br>s<br>ve<br>on<br>9-1<br>sf | (Mariana)  | the second se | ORTH<br>S<br>03              | CAP<br>SCIONARIA<br>EAL<br>6322      |       |
| NOTES  | 19-20=0/358, 5-19=(<br>13-15=-9/781, 8-11=<br>6-13=-493/255, 2-22<br>14-16=0/213, 13-16=<br>17-20=-1303/0, 4-20   | )/363, 5-15=-13/813,<br>-452/175, 7-11=-2850/0,<br>=-575/213, 7-13=0/644,<br>=-1222/0, 17-18=0/255,<br>=0/357  | <ul> <li>bearing plate</li> <li>9.</li> <li>11) Graphical pu<br/>or the orienta<br/>bottom chore</li> <li>LOAD CASE(S)</li> </ul>  | rancal connection<br>capable of withsta<br>rlin representation<br>ation of the purlin al<br>l.<br>Standard  | does no  | 63 lb uplift at jo<br>ot depict the siz<br>top and/or  | bint<br>e  | 1100 Carlos  |   | A<br>Octo                    | INEER<br>GILBER<br>bber 15,2024      | líte. |

![](_page_5_Picture_5.jpeg)

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 outlapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

| Job         | Truss | Truss Type     | Qty | Ply | 14 Overhills Creek-Roof-1 BNS GRH |           |
|-------------|-------|----------------|-----|-----|-----------------------------------|-----------|
| 24100066-01 | A4    | Piggyback Base | 4   | 1   | Job Reference (optional)          | 168913521 |

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:53 ID:Fvn5IIFq04XKwxDPmMJx9pyV?BT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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October 15,2024

818 Soundside Road Edenton, NC 27932

|  |  | -1-0-0  | <u>6-4-4</u><br>6-4-4   |   | <u>12-4-15</u><br>6-0-12   | <u>20-0-1</u><br>7-7-2   |  | <u>26-0-13</u><br>6-0-12   |   | 29-4-1<br>3-3-1               | 11   3<br>4   2               | <u>2-3-4</u><br>-10-9    | <u>38-5-8</u><br>6-2-4                                | 39-5-8                             | 3           |
|--|--|---|---|---|--|--|--|--|---|-------------------------------|-------------------------------|--------------------------|---|------------------------------------|-------------|
| 11-5-10<br>3-4-7 11-2-5  | · 3.4.7 · 7.9.14 · .<br>0.10.3<br>1  | 2<br>19<br>8x10=  | 234   | $10^{12}$ 3x6<br>$3x5 \neq$<br>$25^{4}$<br>$3^{4}$<br>$3^{4}$<br>$18^{3}$<br>4x5=   | 5.<br>5<br>6<br>6<br>17<br>3x  | x8=<br><u>27 28 21</u><br><del>3x6</del> =   | 5x<br>9 €<br>15<br>3xi   | 30<br>30<br>31<br>32<br>38<br>38   | 11 3x <sup>3</sup><br>32<br>14                              | 5.<br>7<br>7<br>4<br>x5=      | 5x8≥<br>8<br>13<br>3x         | 6=                       | 12<br>14<br>2x4 ⊪<br>9<br>33<br>8<br>12<br>12<br>3x5= | 4<br>350 1<br>₩<br>3x5=            | 1 °+1<br>-0 |
|  |  | <b> </b>  | <u>6-4-4</u><br>6-4-4   |   | 12-6-11<br>6-2-8   | <u>19-10-5</u><br>7-3-10   |  | <u>26-0-13</u><br>6-2-8  |   |                               | <u>32-3-4</u><br>6-2-7        |                          | 38-5-8  | ——–                                |             |
| $\frac{\text{Scale} = 1:76.3}{\text{Plate Offsets (2)}}$   | X, Y): [5:0-   | -6-4,0-2-0],  | [6:0-4-4,0-2-0],  | [19:Edge,(  | 0-7-4]   |  |  |  |   |                               |                               |                          |   |                                    |             |
| Loading<br>TCLL (roof)<br>Snow (Pf/Pg)<br>TCDL<br>BCLL<br>BCDL   | 1  | (psf)<br>20.0<br>8.9/20.0<br>10.0<br>0.0*<br>10.0   | Spacing<br>Plate Grip DO<br>Lumber DOL<br>Rep Stress In<br>Code   | 2-0-<br>DL 1.15<br>1.15<br>cr YES<br>IRC  | 0<br>5<br>5<br>2021/TPI2014  | CSI<br>TC<br>BC<br>WB<br>Matrix-MSH  | 0.73<br>0.69<br>0.81   | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)   | in<br>0.05<br>-0.21<br>0.05                                 | (loc)<br>12-22<br>15-17<br>12 | l/defl<br>>999<br>>999<br>n/a | L/d<br>240<br>180<br>n/a | PLATES<br>MT20<br>Weight: 245 lb                      | <b>GRIP</b><br>244/190<br>FT = 20% |             |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>REACTIONS<br>FORCES<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>NOTES<br>1) Unbalance<br>this design | 2x4 SP 2<br>2x4 SP N<br>2x4 SP N<br>2x4 SP N<br>No.2<br>Structura<br>5-7-13 oc<br>2-0-0 oc 1<br>1 Row at<br>(size)<br>Max Horiz<br>Max Horiz<br>Max Uplift<br>Max Grav<br>(lb) - Max<br>Tension<br>1-2=0/53,<br>5-6=-118<br>7-8=-179<br>10-11=0/2<br>15-17=0/<br>12-14=-61<br>3-18=0/22<br>5-15=-16:<br>7-14=-16<br>8-12=-23:<br>ded roof live 1 | 400F 2.0E<br>o.2<br>o.3 *Except<br>l wood sheat<br>purlins, expurlins, (e-o-<br>ing directly<br>Except:<br>bracing: 10-<br>midpt ::<br>10=0-3-8,<br>19=-224 (I<br>10=-115 (I<br>10=205 (L<br>19=1566 (<br>imum Comp<br>2-3=-2102,<br>8/353, 6-7=<br>3/284, 8-9=<br>23, 2-19=-1<br>44/511, 17-<br>1114, 14-15<br>6/980, 10-1:<br>07, 3-17=-5<br>2/84, 6-15=<br>7/84, 8-14=<br>23/216, 7-1:<br>loads have | * 17-5,15-5,15-<br>athing directly a<br>ccept end vertic<br>-0 max.): 5-6.<br>applied or 10-0<br>-12.<br>3-17, 5-15, 7-19<br>12=0-3-8, 19=0<br>LC 13)<br>LC 12)<br>C 52), 12=1978<br>LC 60)<br>pression/Maxim<br>/297, 3-5=-1722<br>-1668/361,<br>0/607, 9-10=-43<br>624/305<br>18=-103/1515,<br>5=-62/1334,<br>2=-612/82<br>64/203, 5-17=-4<br>43/587, 2-18=6<br>0/483, 9-12=-43<br>5=-369/170<br>been considere | -6:2x4 SP<br>applied or<br>als, and<br>-0 oc<br>5<br>-3-8<br>3 (LC 54),<br>num<br>2/369,<br>7/666,<br>56/686,<br>0/1140,<br>54/177,<br>ed for | <ol> <li>Wind: ASC<br/>Vasd=103<br/>II; Exp B; I<br/>Exterior(2)<br/>12-4-15, E<br/>16-3-2 to 2<br/>(1) 23-10-<br/>exposed;<br/>exposed;<br/>exposed;<br/>reactions :<br/>DOL=1.33</li> <li>TCLL: AS<br/>Plate DOL<br/>DOL=1.15<br/>Exp.; Ce=</li> <li>Unbalance<br/>design.</li> <li>This truss<br/>load of 12<br/>overhangs</li> <li>Provide at<br/>3-06-00 ta<br/>chord and</li> <li>All bearing pl<br/>10.</li> <li>Graphical<br/>or the orie<br/>bottom ch-<br/>LOAD CASE(</li> </ol> | CE 7-16; Vult=130r<br>imph; TCDL=6.0ps<br>Enclosed; MWFRS<br>E) -0-11-6 to 2-10-<br>Exterior(2R) 12-4-1;<br>20-0-1, Exterior(2R)<br>3 to 39-5-3 zone; c<br>end vertical left an<br>2-C for members ai<br>shown; Lumber DC<br>CE 7-16; Pr=20.0 p<br>=1.15); Pg=20.0 p<br>5 Plate DCL=1.15);<br>0.9; Cs=1.00; Ct=1<br>ed snow loads have<br>has been designed<br>0 psf or 2.00 times<br>s non-concurrent w<br>dequate drainage to<br>shas been designed<br>tom chord in all are<br>any other member<br>gs are assumed to<br>uechanical connectiant<br>at capable of with<br>purlin representation<br>ord.<br>S) Standard | nph (3-sec<br>f; BCDL=6<br>(envelop<br>13, Interio<br>5 to 16-3-2<br>2) 20-0-1 to<br>antilever li<br>dright exp<br>nof forces c<br>0L=1.60 pl<br>pasf (roof LL<br>fs; Pf=18.5<br>Is=1.0; RL<br>-10, Lu=50<br>e been cor<br>d for great<br>f flat roof li<br>ith other li<br>o preven 4<br>sas where<br>will fit betw<br>rs, with BC<br>be SP No.<br>ion (by oth<br>standing 1<br>on does no<br>n along the | cond gust)<br>.0psf; h=25ft; C<br>.0psf; h=25ft; C<br>.0psf; h=25ft; C<br>.1) 2-10-13 to<br>.1) 12-10-13 to<br>.1) 12-10 | Cat.<br>or<br>ht<br>15<br>ly<br>con<br>sf<br>n<br>bint<br>e |                               |                               |                          | SEA<br>0363   | L<br>22<br>L<br>BER                | - Annoning  |

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| Job         | Truss | Truss Type            | Qty | Ply | 14 Overhills Creek-Roof-1 BNS GRH |           |
|-------------|-------|-----------------------|-----|-----|-----------------------------------|-----------|
| 24100066-01 | B1    | Attic Supported Gable | 1   | 1   | Job Reference (optional)          | 168913522 |

# Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:53 ID:euN5eeBIDqVcSLeF\_LY?3RyV??x-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

![](_page_7_Figure_4.jpeg)

# Scale = 1:70.3 Plate Offsets (X, Y): [2:Edge,0-0-9], [10:0-3-0,0-3-0], [14:0-3-0,0-3-0]

| Loading<br>TCLL (roof)<br>Snow (Pf/Pg)<br>TCDL<br>BCLL<br>BCDL | 18.9  | (psf)<br>20.0<br>9/20.0<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  | 1-11-4<br>1.15<br>1.15<br>YES<br>IRC202  | 21/TPI2014  | CSI<br>TC<br>BC<br>WB<br>Matrix-MSH  | 0.38<br>0.17<br>0.15                             | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)   | in<br>n/a<br>n/a<br>0.00                 | (loc)<br>21  | 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: 276 lb  | <b>GRIP</b><br>244/190<br>FT = 20%  |
|--|---|--|--|--|---|--|--|--|--|--|--|---|---|---|
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS             | 2x6 SP No.:<br>2x4 SP No.:<br>2.0E<br>2x4 SP No.:<br>No.3<br>2x4 SP No.:  | 2<br>2 *Except<br>2 *Except<br>3   | * 26-25:2x10 SP 24(<br>* 16-25,21-20:2x4 S   | <b>F</b><br>00F Т<br>Р   | ORCES   | (lb) - Maximum Con<br>Tension<br>1-2=0/38, 2-3=-293/<br>4-5=-235/206, 5-6=-<br>8-9=-187/287, 9-10=<br>10-11=-159/269, 11<br>12-13=-159/269, 13<br>14-15=-242/197, 15   | 242, 3<br>219/20<br>-154/3<br>-12=-1<br>-14=-1   | on/Maximum<br>4=-246/209,<br>4, 6-8=-205/2<br>22,<br>59/269,<br>59/269,<br>59/269,<br>11/230   | 28,                                      | 3) Ti<br>or<br>se<br>or<br>4) T(<br>Pl<br>D          | russ design<br>hly. For st<br>e Standar<br>consult q<br>CLL: ASCI<br>ate DOL=<br>OL=1.15 F | ned for<br>uds ex<br>rd Indu<br>ualified<br>E 7-16<br>1.15);<br>Plate D | r wind loads in th<br>posed to wind (n<br>stry Gable End E<br>building designe<br>; Pr=20.0 psf (roc<br>Pg=20.0 psf; Pf=<br>OL=1.15); Is=1.0<br>1.00; Ct=1.10 L   | e plane of the truss<br>ormal to the face),<br>)etails as applicable,<br>er as per ANSI/TPI 1.<br>of LL: Lum DOL=1.15<br>18.9 psf (Lum<br>0; Rough Cat B; Fully<br>U=50-0.0 |
| BRACING<br>TOP CHORD<br>BOT CHORD                              | Structural w<br>6-0-0 oc pu<br>2-0-0 oc pu<br>Rigid ceiling   | vood shea<br>rlins, exc<br>rlins (6-0-<br>g directly   | athing directly applied<br>ept end verticals, an<br>0 max.): 10-14.<br>applied or 10-0-0 oc  | dor<br>d E   | SOT CHORD   | 16-17=-135/311, 17<br>16-17=-135/311, 17<br>18-19=-140/148, 19<br>20-21=-116/76<br>2-32=-137/109, 31-3<br>29-30=-54/74, 28-29  | -10=-3<br>-18=-1<br>-20=-1<br>32=-54,<br>3=-54,7 | 70/209,<br>21/107,<br>74, 30-31=-54<br>4, 27-28=-54/   | 4/74,<br>/74,                            | 5) TI<br>lo<br>ov<br>6) Pi<br>7) Al                  | his truss had of 12.0<br>verhangs r<br>rovide ade<br>I plates ar                           | as bee<br>psf or<br>non-co<br>equate<br>e 2x4                           | 2.00 times flat ro<br>ncurrent with oth<br>drainage to preve<br>MT20 unless oth   | reater of min roof live<br>sof load of 13.9 psf on<br>er live loads.<br>ent water ponding.<br>erwise indicated.<br>obord horizon  |
| WEBS<br>JOINTS   | bracing.<br>1 Row at m<br>1 Brace at 3<br>36, 37, 38  | idpt 2<br>Jt(s): 35,   | 26-33, 25-34, 9-27   | v  | VEBS  | 24-27=-36/74, 23-22<br>21-22=-55/72<br>26-33=-487/46, 10-3<br>25-34=-589/0, 16-34  | +=-55/7<br>33=-44<br>1=-620,<br>7/2, 27          | 3, 22-23=-55/<br>4/52,<br>(0, 33-36=-7/2   | ,<br>,                                   | able requil<br>able studs<br>This truss<br>the botto | has be<br>m cho  | ad at 2-0-0 oc.<br>een designed for<br>rd in all areas wh               | a live load of 20.0psf<br>ere a rectangle   |   |
| REACTIONS  | (size) 2<br>2<br>2<br>3<br>Max Horiz 2<br>2<br>Max Uplift 2<br>2<br>2<br>2<br>3<br>Max Grav 2<br>2<br>2<br>2<br>2<br>3<br>3<br>3<br>Max Grav 2<br>2<br>2<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3 | =28-7-8,<br>:3=28-7-8,<br>:6=28-7-8,<br>:6=28-7-8,<br>:2=28-7-8,<br>:2=28-7-8,<br>:2=28-10,<br>:2=2-51 (LC,<br>:2=-51 (LC,<br>:2=-115 (L,<br>:2=-115 (L,<br>:2=160 (LC,<br>:2=160 (LC,<br>:2=160 (LC,<br>:2=187 (L,<br>:2=187 (L,<br>: | $\begin{array}{l} 21 = 28 - 7.8, \ 22 = 28 - 7.8, \ 25 = 28 - 7.8, \ 25 = 28 - 7.8, \ 25 = 28 - 7.8, \ 25 = 28 - 7.8, \ 25 = 28 - 7.8, \ 21 = 28 - 7.8, \ 31 = 28 - 7.8, \ 31 = 28 - 7.8, \ 31 = 28 - 7.8, \ 31 = 23 - 7.8, \ 31 = 23 - 7.8, \ 31 = 23 - 7.8, \ 31 = 23 - 7.8, \ 31 = 23 - 7.8, \ 31 = 23 - 7.8, \ 32 - 7.8, $ | -8,<br>7-8,<br>7-8,<br>7-8,<br>1,<br>1,<br>1,<br>1,<br>1,<br>1,<br>1,<br>1,<br>1,<br>0,<br>0),<br>2) | IOTES<br>) Unbalanced<br>this design.<br>) Wind: ASCI<br>Vasd=103m<br>II; Exp B; El<br>Exterior(2E;<br>12-4-15, Ex<br>16-7-14 to 2<br>Interior (1) 2<br>right expose<br>for member<br>Lumber DO | 34-38=-8/2, 12-35=-<br>13-37=-11/29, 15-36<br>17-24=-38/155, 18-2<br>19-22=-119/78, 9-27<br>6-29=-138/59, 5-30=<br>3-32=-100/78<br>I roof live loads have<br>E 7-16; Vult=130mph<br>ph; TCDL=6.0psf; B<br>nclosed; MWFRS (er<br>1-0-9-13 to 2-2-3, Int<br>terior(2R) 12-4-15 to<br>20-0-1, Exterior(2R) 2<br>24-2-15 to 28-5-12 zd<br>ed; end vertical left as<br>and forces & MWF<br>L=1.60 plate grip DC | 6/32, 1<br>3=-19/1<br>23=-12/7<br>               | 1-36=-4/37,<br>31,<br>3/72,<br>2, 8-28=-118/<br>0, 4-31=-131/<br>considered for<br>ond gust)<br>.0psf; h=25ft;<br>b) and C-C<br>) 2-2-3 to<br>4, Interior (1)<br>to 24-2-15,<br>ntilever left ar<br>tt exposed;C-f<br>reactions sho<br>3 | /91,<br>/60,<br>Cat.<br>Cat.<br>C<br>wn; | ch<br>(11) C<br>33<br>12) A                          | eiling deac<br>5-36, 35-3<br>I bearings  | iny oth<br>d load<br>7, 37-3<br>are as                                  | sound funders, with<br>(10.0 psf) on mer<br>(10.0 psf) | BCDL = 10.0psf.<br>nber(s). 33-36,<br>IN0.2,<br>L<br>22   |

October 15,2024

818 Soundside Road Edenton, NC 27932

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

| Job                           | Truss                    | Truss Type   | Qty | Ply | 14 Overhills Creek-Roof-1 BNS GRH |           |  |  |
|-------------------------------|--------------------------|--|-----|-----|-----------------------------------|-----------|--|--|
| 24100066-01                   | B1                       | Attic Supported Gable  | 1   | 1   | Job Reference (optional)          | l68913522 |  |  |
| Carter Components (Sanford, N | C), Sanford, NC - 27332, | Run: 8.73 S. Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries. Inc. Tue Oct 15 11:28:53 |     |     |                                   |           |  |  |

13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 202 lb uplift at joint 2, 11 lb uplift at joint 21, 136 lb uplift at joint 24, 41 lb

- uplift at joint 23, 51 lb uplift at joint 22, 61 lb uplift at joint 27, 47 lb uplift at joint 28, 37 lb uplift at joint 29, 37 lb uplift at joint 30, 35 lb uplift at joint 31, 115 lb uplift at joint 32 and 202 lb uplift at joint 2.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 15) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:53 ID:euN5eeBIDqVcSLeF\_LY?3RyV??x-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCEL Building Component Schut Information, purplication for the trust structure Bucking Component Advancement and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

![](_page_8_Picture_9.jpeg)

| Job         | Truss | Truss Type | Qty | Ply | 14 Overhills Creek-Roof-1 BNS GRH |           |
|-------------|-------|------------|-----|-----|-----------------------------------|-----------|
| 24100066-01 | B2    | Attic      | 3   | 1   | Job Reference (optional)          | 168913523 |

Run: 8,73 S Sep 25 2024 Print: 8,730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:53 ID:7i61FsRMyTU?JA02XUu9kAyV?\_K-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

![](_page_9_Figure_4.jpeg)

bottom chord

LOAD CASE(S) Standard

11) Attic room checked for L/360 deflection.

NOTES

WEBS

Loading

TCDL

BCLL

BCDL

LUMBER

WEBS

WEBS

FORCES

WEDGE

BRACING

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

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![](_page_9_Picture_8.jpeg)

G minim October 15,2024

SEAL

036322

| Job         | Truss | Truss Type   | Qty | Ply | 14 Overhills Creek-Roof-1 BNS GRH |           |
|-------------|-------|--------------|-----|-----|-----------------------------------|-----------|
| 24100066-01 | B3    | Attic Girder | 1   | 2   | Job Reference (optional)          | 168913524 |

Scale = 1:71.8

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:53 ID:cjFhAe3ziS1dZA\_2aPqLr7yV\_zW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

![](_page_10_Figure_4.jpeg)

# Plate Offsets (X, Y): [5:0-3-0,0-3-0], [6:0-8-4,0-4-0], [10:0-3-8,0-4-8], [11:0-3-8,Edge]

| Loading<br>TCLL (roof)<br>Snow (Pf/Pg)<br>TCDL<br>BCLL<br>BCDL                         | (psf)<br>20.0<br>18.9/20.0<br>10.0<br>0.0*<br>10.0  | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code   | 3-0-0<br>1.15<br>1.15<br>NO<br>IRC2021 | /TPI2014  | CSI<br>TC<br>BC<br>WB<br>Matrix-MSH   | 0.68<br>0.52<br>0.86  | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)<br>Attic   | in<br>-0.22<br>-0.38<br>0.01<br>-0.17 | (loc)<br>11-12<br>11-12<br>9<br>10-11  | l/defl<br>>999<br>>895<br>n/a<br>>642  | L/d<br>240<br>180<br>n/a<br>360   | PLATES<br>MT20<br>Weight: 515 lb   | <b>GRIP</b> 244/190<br>FT = 20%   |   |
|--|---|--|--|---|---|---|---|---------------------------------------|--|--|---|--|---|---|
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>WEDGE<br>BRACING<br>TOP CHORD<br>BOT CHORD | 2x6 SP No.2<br>2x6 SP 2400F 2.0E<br>2400F 2.0E<br>2x4 SP No.3 *Excep<br>Left: 2x4 SP No.3<br>2-0-0 oc purlins (6-0<br>verticals<br>(Switched from shee<br>Rigid ceiling directly<br>bracing Excent: | *Except* 11-10:2x10<br>t* 13-14:2x4 SP No.2<br>-0 max.), except end<br>sted: Spacing > 2-8-0<br>applied or 10-0-0 oc | 1)<br>SP<br>2<br>1 2)<br>).            | 2-ply truss to<br>(0.131"x3") n<br>Top chords c<br>staggered at<br>Bottom chorc<br>staggered at<br>oc.<br>Web connect<br>All loads are<br>except if notte<br>CASE(S) sec<br>provided to d | be connected toge<br>ails as follows:<br>connected as follow<br>0-9-0 oc, 2x4 - 1 rc<br>is connected as fol<br>0-9-0 oc, 2x10 - 2<br>ted as follows: 2x4<br>considered equally<br>ed as front (F) or ba<br>tion. Ply to ply con<br>istribute only loads | ether wir<br>s: 2x6 -<br>ow at 0-<br>lows: 2<br>rows sta<br>- 1 row<br>applied<br>ick (B) f<br>nection<br>noted a | th 10d<br>2 rows<br>9-0 oc.<br>66 - 2 rows<br>aggered at 0-<br>at 0-9-0 oc.<br>d to all plies,<br>face in the LC<br>s have been<br>as (F) or (B), | 7-0<br>DAD                            | 12) Gra<br>or ti<br>botti<br>13) Use<br>14-<br>left<br>cho<br>14) Fill<br>15) Attii<br>LOAD (<br>1) De | phical ph | urlin re<br>ation o<br>d.<br>on Stro<br>2 Trus<br>onnec<br>oles w<br>hecke<br>) Sta<br>ow (ba | epresentation doo<br>of the purlin alon-<br>ing-Tie HTU26 (1<br>is) or equivalent<br>t truss(es) to fror<br>there hanger is ir<br>d for L/360 defle-<br>ndard<br>alanced): Lumbe | is not depict th<br>g the top and/c<br>0-16d Girder,<br>at 12-7-12 from<br>t face of bottor<br>contact with I<br>ction. | ne size<br>or<br>n the<br>m<br>umber.<br>5, Plate |
| JOINTS<br>REACTIONS  | 6-0-0 oc bracing: 9-1<br>1 Brace at Jt(s): 5,<br>6, 13, 14, 8<br>(size) 2=0-3-8, 9<br>Max Horiz 2=367 (LC<br>Max Grav 2=2719 (L   | 10.<br>9=0-3-8<br>C 8)<br>.C 22), 9=2653 (LC 2   | 3)<br>4)<br>3)                         | unless other<br>Unbalanced<br>this design.<br>Wind: ASCE<br>Vasd=103mp<br>II; Exp B; End<br>and right exp   | wise indicated.<br>roof live loads have<br>7-16; Vult=130mph<br>bh; TCDL=6.0psf; E<br>closed; MWFRS (e<br>osed - end vertical   | e been o<br>n (3-sec<br>CDL=6<br>nvelope  | considered fo<br>ond gust)<br>.0psf; h=25ft;<br>;); cantilever  | r<br>Cat.<br>left                     | Ur   | Vert: 1-5<br>10-11=-<br>oncentra<br>Vert: 11   | bads (II<br>5=-72,<br>45, 9-1<br>ted Lo<br>=-923  | b/ft)<br>5-6=-87, 6-8=-72<br>10=-30, 13-14=-3<br>ads (lb)<br>(F)   | 2, 11-15=-30,<br>0  |   |
| FORCES   | (lb) - Maximum Com<br>Tension<br>1-2=0/59, 2-3=-3667<br>5-6=-2493/156, 6-7=<br>7-82690/51, 8-92   | pression/Maximum<br>//69, 3-5=-2976/109,<br>2906/262,<br>2847/0  | 5)                                     | Lumber DOL<br>TCLL: ASCE<br>Plate DOL=1<br>DOL=1.15 Pl  | =1.60 plate grip DC<br>7-16; Pr=20.0 psf<br>.15); Pg=20.0 psf;<br>ate DOL=1.15); Is=  | DL=1.33<br>(roof LL<br>Pf=18.9<br>1.0; Rc   | : Lum DOL=<br>psf (Lum<br>ugh Cat B; F  | 1.15<br>ully                          |  |  |   | WITH CA  | RO  |   |
| BOT CHORD<br>WEBS  | 2-12=-288/2892, 9-1<br>10-14=-57/458, 7-14<br>13-14=-1255/171, 3-<br>11-13=-114/1752, 5-<br>6-13=-203/1758, 6-1<br>3-11=-926/260, 8-10  | 2=-203/2892<br>=-1175/428,<br>12=-59/551,<br>13=-5/1513,<br>4=-251/1861,<br>=-39/2376                                | 6)<br>7)<br>8)                         | This truss ha<br>load of 12.0 p<br>overhangs no<br>Provide adeo<br>* This truss h<br>on the bottom  | been designed fc<br>s been designed fc<br>port 2.00 times fla<br>port acconcurrent with<br>quate drainage to p<br>las been designed<br>n chord in all areas   | or greate<br>or greate<br>other liv<br>revent v<br>for a liv<br>where   | er of min roof<br>bad of 13.9 p<br>ve loads.<br>vater ponding<br>e load of 20.0<br>a rectangle  | live<br>sf on<br>g.<br>)psf           |  | 1 million  | E.  | OF FESS  | De l  | and the second                                    |
| NOTES  |   |  | 9)                                     | 3-06-00 tall b<br>chord and an<br>Ceiling dead  | by 2-00-00 wide will<br>by other members.<br>load (10.0 psf) on   | fit betw  | r(s). 13-14   | om                                    |  | THE PARTY  |   | 0363   | 22  | unu,  |

- 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 10-11
  - 11) All bearings are assumed to be SP 2400F 2.0E .

![](_page_10_Picture_9.jpeg)

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C

| Job         | Truss | Truss Type   | Qty | Ply | 14 Overhills Creek-Roof-1 BNS GRH |           |
|-------------|-------|--------------|-----|-----|-----------------------------------|-----------|
| 24100066-01 | B4    | Attic Girder | 1   | 2   | Job Reference (optional)          | 168913525 |

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:53 ID:vKimCrL13q3DRsqf\_RGzpByV\_z8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

![](_page_11_Figure_4.jpeg)

#### Scale = 1:72.7 Plate Offsets (X, Y): [2:Edge,0-0-0], [5:0-3-0,0-3-0], [6:0-8-4,0-4-0], [10:0-6-0,Edge], [11:0-3-8,Edge]

| Loading<br>TCLL (roof)<br>Snow (Pf/Pg)<br>TCDL<br>BCLL<br>BCDL  | (psf)<br>20.0<br>18.9/20.0<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   | 2-10-0<br>1.15<br>1.15<br>NO<br>IRC2021   | /TPI2014   | <b>CSI</b><br>TC<br>BC<br>WB<br>Matrix-MSH   | 0.83<br>0.78<br>0.95  | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)<br>Attic   | in<br>-0.23<br>-0.45<br>0.01<br>-0.15  | (loc)<br>11-12<br>11-12<br>9<br>10-11   | l/defl<br>>999<br>>691<br>n/a<br>>676  | L/d<br>240<br>180<br>n/a<br>360  | PLATES<br>MT20<br>MT20HS<br>Weight: 491 lb  | <b>GRIP</b><br>244/190<br>187/143<br>FT = 20%   |
|---|--|---|---|--|--|---|---|--|---|--|--|---|---|
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>WEDGE<br>BRACING<br>TOP CHORD<br>JOINTS<br>REACTIONS<br>FORCES<br>TOP CHORD<br>WEBS | 2x6 SP No.2<br>2x6 SP 2400F 2.0E<br>2400F 2.0E<br>2x4 SP No.3 *Excep<br>Left: 2x4 SP No.3<br>2-0-0 oc purlins (6-0<br>verticals<br>(Switched from shee<br>Rigid ceiling directly<br>bracing, Except:<br>6-0-0 oc bracing: 9-1<br>1 Brace at Jt(s): 5,<br>6, 13, 14, 8<br>(size) 2=0-3-8, 9<br>Max Horiz 2=378 (LC<br>Max Uplift 2=-142 (LI<br>Max Grav 2=2746 (L<br>(lb) - Maximum Com<br>Tension<br>1-2=0/56, 2-3=-3749<br>5-6=-2591/348, 6-7<br>7-8=-2608/293, 8-9<br>2-12=-415/2935, 9-1<br>10-14=-120/36, 7-4<br>11-13=-266/1903, 5-<br>6-13=-250/1971, 6-1<br>8-10=-334/3274, 34<br>036   | *Except* 11-10:2x10<br>** 13-14:2x4 SP No.2<br>-0 max.), except end<br>ted: Spacing > 2-8-0<br>applied or 10-0-0 oc<br>0.<br>=0-3-8<br>: 8)<br>C 9), 9=-191 (LC 9)<br>C 22), 9=3385 (LC 2<br>pression/Maximum<br>(260, 3-5=-3053/328,<br>-2985/418,<br>-4044/317<br>2=372/235<br>4=110/237<br>13=-139/1621,<br>4=300/2037,<br>13=913/203<br>322 | 1)<br>SP<br>2)<br>2)<br>3)<br>4)<br>2)<br>5)<br>6)<br>7)<br>8)<br>9)<br>10)<br>11)<br>12) | 2-ply truss to<br>(0.131"x3") n<br>Top chords c<br>staggered at<br>Bottom chorco<br>xtaggered at<br>oc.<br>Web connect<br>All loads are<br>except if note<br>except if note<br>provided to d<br>unless otheru<br>Unbalanced<br>this design.<br>Wind: ASCE<br>Vasd=103mp<br>II; Exp B; Enn<br>and right exp<br>Lumber DOL<br>TCLL: ASCE<br>Plate DOL=11<br>DOL=1.15 PI<br>Exp;; Ce=0.9<br>This truss ha<br>load of 12.0 g<br>overhangs no<br>Provide aded<br>All plates are<br>* This truss h<br>on the bottom<br>3-06-00 tall b<br>chord and an<br>Ceiling dead<br>Bottom chorc<br>chord dead la<br>All bearings a | be connected toge<br>ails as follows:<br>onnected as follows:<br>on-9-0 oc, 2x4 - 1 ro<br>is connected as follow<br>0-9-0 oc, 2x10 - 2 r<br>ed as follows: 2x4<br>considered equally<br>ad as front (F) or ba<br>tion. Ply to ply com-<br>istribute only loads<br>vise indicated.<br>roof live loads have<br>7-16; Vult=130mph<br>th; TCDL=6.0psf; B<br>closed; MWFRS (er<br>osed; end vertical<br>=1.60 plate grip DC<br>7-16; Pr=20.0 psf; I<br>ate DOL=1.15); Is=<br>; Cs=1.00; Ct=1.10<br>s been designed fo<br>posf or 2.00 times fla<br>on-concurrent with or<br>juate drainage to pri<br>MT20 plates unless<br>as been designed fo<br>nchord in all areas<br>y 2-00-00 wide will<br>y other members.<br>load (10.0 psf) on r<br>f live load (40.0 psf)<br>pad (5.0 psf) applie<br>are assumed to be | ther with<br>s: 2x6 -<br>w at 0-<br>ows: 2;<br>ows station<br>- 1 row<br>applier<br>- 1 row<br>applier<br>- 1 row<br>applier<br>- 1 row<br>- 1 ro | th 10d<br>2 rows<br>9-0 oc.<br>66 - 2 rows<br>aggered at 0-<br>at 0-9-0 oc.<br>4 to all plies,<br>ace in the LC<br>is have been<br>as (F) or (B),<br>considered for<br>ond gust)<br>.0psf; h=25ft;<br>); cantilever I<br>right expose<br>Lum DOL=:<br>psf (Lum<br>rugh Cat B; F)-0-0<br>er of min roof<br>pad of 13.9 ps<br>re loads.<br>vater ponding<br>wise indicate<br>e load of 20.0<br>a rectangle<br>reen the bottor<br>r(s). 13-14<br>dditional botto<br>o room. 10-1<br>0F 2.0E. | 9-0<br>DAD<br>r<br>(Cat.<br>left<br>ad;<br>1.15<br>fully<br>live<br>sf on<br>g.<br>d.<br>Dpsf<br>om<br>1 | 13) Pro<br>bec<br>2 a<br>14) Gra<br>14) Gra<br>15) Usa<br>14-<br>to 0<br>16) Usa<br>14-<br>left<br>cha<br>17) Fill<br>18) Atti<br>LOAD<br>1) D<br>In<br>U | wide me<br>aring plat<br>and 191 II<br>aphical p<br>the orien<br>tom choose<br>Simpso<br>10d Trus<br>connect te<br>simpso<br>10dx1 1.<br>end to c<br>ord.<br>all nail h<br>c room C<br><b>CASE(S</b><br>ead + Sr<br>crease=<br>niform Lo<br>Vert: 1-4<br>10-11=-<br>oncentra | chanic:<br>e capa<br>o uplift<br>urlin re<br>d. on Stro<br>ss) or e<br>russ(e<br>on Stro<br>2 Trus<br>onnect<br>oles w<br>hecke<br>) Stata<br>(1.15<br>) Stata<br>(1.15<br>) Stata<br>(1.15<br>) Stata<br>(1.15<br>) Stata<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.15)<br>(1.1 | al connection (by<br>bible of withstandi<br>at joint 9.<br>presentation doe<br>of the purlin along<br>ng-Tie HTU26-2<br>equivalent at 17-1<br>s) to front face of<br>ng-Tie HTU26 (1<br>s) or equivalent at<br>truss(es) to back<br>here hanger is in<br>d for L/360 deflect<br>ndard<br>alanced): Lumber<br>5-6=-82, 6-8=-68<br>0-28, 13-14=-2<br>ads (lb) | r others) of truss to<br>ng 142 lb uplift at joint<br>es not depict the size<br>g the top and/or<br>(20-10d Girder,<br>0-12 from the left end<br>bottom chord.<br>0-16d Girder,<br>at 12-7-12 from the<br>k face of bottom<br>contact with lumber.<br>tion.<br>• Increase=1.15, Plate<br>8, 11-15=-28,<br>8 |
|   | in the second se | uninin,   |   |  |  |   |   |  |   |  |  | Octobe  | r 15,2024   |

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

| Job   | Truss | Truss Type        | Qty             | Ply          | 14 Overhills Creek-Roof-1 BNS GRH                 |           |  |
|---|-------|-------------------|-----------------|--------------|---|-----------|--|
| 24100066-01   | B4    | Attic Girder 1    |                 | 2            | Job Reference (optional)                          | l68913525 |  |
| Carter Components (Sanford, NC), Sanford, NC - 27332, |       | Run: 8.73 S Sep 2 | 5 2024 Print: 8 | .730 S Sep 2 | 5 2024 MiTek Industries, Inc. Tue Oct 15 11:28:53 | Page: 2   |  |

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:53 ID:vKimCrL13q3DRsqf\_RGzpByV\_z8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Vert: 11=-945 (B), 18=-998 (F)

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![](_page_12_Picture_5.jpeg)

| Job         | Truss | Truss Type     | Qty | Ply | 14 Overhills Creek-Roof-1 BNS GRH |           |  |
|-------------|-------|----------------|-----|-----|-----------------------------------|-----------|--|
| 24100066-01 | B5    | Piggyback Base | 1   | 1   | Job Reference (optional)          | 168913526 |  |

![](_page_13_Figure_2.jpeg)

Page: 1

![](_page_13_Figure_4.jpeg)

![](_page_13_Figure_5.jpeg)

| Scale | = 1:70.2 |  |
|-------|----------|--|
|       |          |  |

| Plate Offsets  | (X, Y): [5:0-6-4,0-2-0],   | [6:Edge,0-1-8]   |   |   |   |  |   |  |                           |  |                          |                                  |                                    |  |
|--|--|--|---|---|---|--|---|--|---------------------------|--|--------------------------|----------------------------------|------------------------------------|--|
| Loading<br>TCLL (roof)<br>Snow (Pf/Pg)<br>TCDL<br>BCLL<br>BCDL   | (psf)<br>20.0<br>18.9/20.0<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>IRC202  | 1/TPI2014   | CSI<br>TC<br>BC<br>WB<br>Matrix-MSH   | 0.84<br>0.40<br>0.54   | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)  | in<br>0.04<br>-0.07<br>0.01  | (loc)<br>7-8<br>8-10<br>7 | l/defl<br>>999<br>>999<br>n/a  | L/d<br>240<br>180<br>n/a | PLATES<br>MT20<br>Weight: 140 lb | <b>GRIP</b><br>244/190<br>FT = 20% |  |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>WEBS<br>REACTIONS<br>FORCES<br>TOP CHORD<br>BOT CHORD<br>BOT CHORD<br>BOT CHORD<br>WEBS<br>NOTES<br>1) Unbalanc<br>this desig<br>2) Wind: ASI<br>Vasd=103<br>II; Exp B;<br>Exterior(2<br>12-4-15, E<br>16-7-14 tc<br>exposed;<br>members<br>Lumber D | 2x4 SP No.2<br>2x4 SP No.2<br>2x4 SP No.2 *Excep<br>No.3, 11-2:2x6 SP N<br>Structural wood shea<br>5-7-15 oc purlins, e:<br>2-0-0 oc purlins, (e-0<br>Rigid ceiling directly<br>bracing.<br>1 Row at midpt<br>(size) 7= Mecha<br>Max Horiz 11=328 (LC<br>Max Grav 7=819 (LC<br>(lb) - Maximum Com<br>Tension<br>1-2=0/57, 2-3=-1011<br>5-6=-174/188, 6-7=<br>10-11=-604/601, 8-1<br>7-8=-222/461<br>3-10=0/264, 3-8=-52<br>5-7=-828/247, 2-10=<br>ed roof live loads have<br>n.<br>CE 7-16; Vult=130mph<br>Smph; TCDL=6.0psf; BG<br>Enclosed; MWFRS (en<br>E) -0-11-6 to 2-0-10, In<br>Exterior(2R) 12-4-15 to<br>0 17-7-8 zone; cantileve<br>end vertical left and rig<br>and forces & MWFRS<br>OL=1.60 plate grip DO | <ul> <li>* 3-10,8-3,10-2:2x4</li> <li>o.2</li> <li>athing directly applied coept end verticals, -0 max.): 5-6.</li> <li>applied or 7-7-1 oc</li> <li>6-7, 3-8, 5-7</li> <li>nical, 11=0-3-8</li> <li>C 10)</li> <li>10)</li> <li>2 29), 11=850 (LC 2</li> <li>pression/Maximum</li> <li>/117, 3-5=-623/199</li> <li>168/81, 2-11=-875/1</li> <li>0=-350/836,</li> <li>4/177, 5-8=-66/633</li> <li>-39/404</li> <li>been considered fo</li> <li>(3-second gust)</li> <li>2DL=6.0psf; h=25ft; velope) and C-C</li> <li>terior (1) 2-0-10 to</li> <li>16-7-14, Interior (1)</li> <li>rt eff and right ht exposed; C-C for for reactions shown L=1.33</li> </ul> | 3)<br>+ SP 4)<br>ed or 5)<br>(6)<br>7)<br>8)<br>9)<br>9)<br>10<br>,<br>139 L0<br>,<br>r<br>Cat. | TCLL: ASCE<br>Plate DOL=1<br>DOL=1.15 P<br>Exp.; Ce=0.5<br>This truss ha<br>load of 12.0<br>overhangs n<br>Provide aded<br>* This truss h<br>on the bottor<br>3-06-00 tall b<br>chord and ar<br>Bearings are<br>Refer to gird<br>Provide mec<br>bearing plate<br>7.<br>D) Graphical pu<br>or the orienta<br>bottom chord<br>DAD CASE(S) | <ul> <li>7-16; Pr=20.0 psf</li> <li>1.15); Pg=20.0 psf;</li> <li>late DOL=1.15); Is</li> <li>b; Cs=1.00; Ct=1.1;</li> <li>is been designed find the drainage to phase been designed an chord in all areasion of the members,</li> <li>assumed to be: Joer(s) for truss to trushanical connection acapable of withstancial connection ation of the purlin ad.</li> <li>Standard</li> </ul> | (roof LL<br>Pf=18.5<br>=1.0; Rc<br>0, Lu=50<br>or great<br>at roof lc<br>other lin<br>or grevent v<br>for a liv<br>s where<br>I fit betw<br>with BC<br>Doint 11 5<br>uss conr<br>to (by oth<br>anding 8<br>does no<br>long the | :: Lum DOL=<br>a) psf (Lum<br>) uph Cat B; F<br>)-0-0<br>er of min roof<br>pad of 13.9 ps<br>//e loads.<br>water ponding<br>e load of 20.0<br>a rectangle<br>//een the botto<br>DL = 10.0psf<br>SP No.2.<br>hections.<br>ers) of truss t<br>i0 lb uplift at j<br>bt depict the se<br>top and/or | 1.15<br>fully<br>live<br>sf on<br>g.<br>ppsf<br>om<br>cont<br>size |                           | Charles and a second se |                          | SEA<br>0363                      | RO<br>ICAL<br>22<br>ILBER          |  |

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 PCB Building Component Science Michael Component Advancing Component Advancing Component Advancing and PCB and Component Advancing Component Compone 818 Soundside Road Edenton, NC 27932 and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

![](_page_13_Picture_10.jpeg)

GI minim October 15,2024

| Job         | Truss | Truss Type            | Qty | Ply | 14 Overhills Creek-Roof-1 BNS GRH |           |
|-------------|-------|-----------------------|-----|-----|-----------------------------------|-----------|
| 24100066-01 | B6    | Piggyback Base Girder | 1   | 2   | Job Reference (optional)          | 168913527 |

Scale = 1:72.7

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:54 ID:o9zZeG5ADngm9IrdfH1aJtyV?95-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

![](_page_14_Figure_4.jpeg)

# Plate Offsets (X, Y): [2:0-5-1,0-1-7], [6:0-6-4,0-2-0], [7:0-3-4,0-2-0], [13:0-4-12,Edge]

| Loading<br>TCLL (roof)<br>Snow (Pf/Pg)<br>TCDL<br>BCLL                                  | (psf)<br>20.0<br>18.9/20.0<br>10.0<br>0.0*   | <b>Spacing</b><br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code  | 2-0-0<br>1.15<br>1.15<br>NO<br>IRC202  | 1/TPI2014  | <b>CSI</b><br>TC<br>BC<br>WB<br>Matrix-MSH  | 0.23<br>0.09<br>0.24   | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)  | in<br>-0.02<br>-0.04<br>0.01 | (loc)<br>12-13<br>12-13<br>10   | l/defl<br>>999<br>>999<br>n/a   | L/d<br>240<br>180<br>n/a  | PLATES<br>MT20   | <b>GRIP</b> 244/190  |
|---|--|--|--|--|---|--|---|------------------------------|---|---|---|--|--|
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>SLIDER<br>BRACING<br>TOP CHORD<br>BOT CHORD | 2x4 SP 2400F 2.0E<br>2x8 SP 2400F 2.0E<br>2x8 SP 2400F 2.0E<br>2x4 SP No.3 *Excep<br>No.2<br>Left 2x4 SP No.3 1<br>Structural wood shea<br>6-0-0 oc purlins, ex<br>2-0-0 oc purlins, ex<br>2-0-0 oc purlins (6-0<br>Rigid ceiling directly<br>bracing. | Except* 13-10:2x10<br>t* 13-6,12-6,12-7:2x4<br>l-6-0<br>athing directly applie<br>cept end verticals, ar<br>-0 max.): 6-7.<br>applied or 10-0-0 oc | 1)<br>SP<br>4 SP<br>d or <sup>2</sup> )<br>nd  | 2-ply truss to<br>(0.131"x3") n<br>Top chords c<br>oc.<br>Bottom chord<br>staggered at<br>oc.<br>Web connect<br>All loads are<br>except if note<br>CASE(S) sec<br>provided to d<br>unless othern | be connected toge<br>ails as follows:<br>onnected as follows:<br>as connected as follows<br>as connected as follows<br>as follows: 2x4<br>considered equally<br>ad as front (F) or ba<br>tion. Ply to ply conn<br>istribute only loads<br>vise indicated. | ther wi<br>s: 2x4 -<br>ows: 2:<br>ows st<br>- 1 row<br>applied<br>ck (B) t<br>nection<br>noted | th 10d<br>1 row at 0-9-<br>x8 - 2 rows<br>aggered at 0-<br>at 0-9-0 oc.<br>d to all plies,<br>face in the LC<br>s have been<br>as (F) or (B), | -0<br>9-0<br>DAD             | 11) Gra<br>or ti<br>bott<br>12) Use<br>14-'<br>to c<br>13) Fill<br>LOAD (<br>1) De<br>Inc<br>Ur | phical prine orient<br>om chore<br>Simpso<br>10d Trust<br>onnect t<br>all nail h<br>CASE(S)<br>ead + Sn<br>crease=<br>iform Lo<br>Vert: 1-6<br>oncentra | urlin re<br>ation of<br>d.<br>on Stro<br>ss) or e<br>russ(e<br>oles w<br>) Stat<br>ow (ba<br>1.15<br>cow (ba<br>1.15<br>cow (ba<br>1.15<br>cow (ba<br>1.25<br>cow (ba<br>1.25)<br>cow (ba<br>1.25) | vyeignt: 513 ib<br>epresentation do<br>of the purlin alon<br>ng-Tie HTU26-2<br>equivalent at 17-<br>s) to back face c<br>here hanger is ii<br>ndard<br>alanced): Lumbe<br>b/ft)<br>6-7=-58, 7-9=-4<br>ads (lb) | r I = 20%<br>es not depict the size<br>g the top and/or<br>? (20-10d Girder,<br>10-12 from the left end<br>of bottom chord.<br>n contact with lumber.<br>er Increase=1.15, Plate<br>8, 10-15=-20 |
| WEBS<br>REACTIONS   | 1 Row at midpt<br>(size) 2=0-3-8, 1<br>Max Horiz 2=245 (LC<br>Max Uplift 2=-100 (Li<br>11=-195 (Li<br>Max Grav 2=1539 (Li<br>11=1827 (   | 6-12<br>(0=2-10-4, 11=2-10-4<br>2 8)<br>C 9), 10=-61 (LC 6),<br>LC 10)<br>(LC 21), 10=227 (LC 2<br>(LC 22)   | 1=2-10-4       Wind: ASCE 7-16; Vult=130mph (3-second gust)       Vert: 20=-802 (B)         1 (LC 6),       Viscord (B)       Viscord (B)         227 (LC 28),       Lumber DOL=1.60 plate grip DOL=1.33       Lumber DOL=1.60 plate grip DOL=1.33 |  |   |  |   |                              |   |   |   |  |  |
| FORCES  | (lb) - Maximum Com<br>Tension<br>1-2=0/53, 2-4=-1791<br>6-7=-998/250, 7-8=-<br>9-10=-276/45  | pression/Maximum<br>/166, 4-6=-1529/253<br>1375/290, 8-9=-174/-  | s,<br><sup>49,</sup> 6)  | Plate DOL=1<br>DOL=1.15 Pl<br>Exp.; Ce=0.9<br>This truss ha  | (15); Pg=20.0 psf; Iate DOL=1.15); Is=; Cs=1.00; Ct=1.10s been designed fo  | Pf=18.9<br>1.0; Ro<br>, Lu=50<br>r greate  | ) psf (Lum<br>bugh Cat B; F<br>)-0-0<br>er of min roof  | live                         |   |   | A.L.  | ORTH CA  | AD LIANS   |
| BOT CHORD<br>WEBS   | 2-14=-228/1435, 12-<br>11-12=-46/125, 10-1<br>6-13=-86/834, 6-12=<br>7-12=-148/543, 4-14   | 14=-228/1435,<br>1=-41/33<br>-285/133,<br>=-25/149,  | 7)<br>8)   | verhangs no<br>Provide adeo<br>* This truss h<br>on the botton   | on-concurrent with o<br>juate drainage to pr<br>as been designed f<br>n chord in all areas  | other liv<br>revent v<br>for a liv<br>where  | ve loads.<br>water ponding<br>e load of 20.0<br>a rectangle   | g.<br>)psf                   |   |   | Ð   | SEA  | L  |
| NOTES   | 8-12=-216/1199, 9-1  | 1=-42/204  | 9)<br>10   | 3-06-00 tall b<br>chord and an<br>Bearings are<br>Joint 11 SP 2<br>) Provide mecl<br>bearing plate<br>2, 61 lb uplift  | y 2-00-00 wide will<br>y other members, v<br>assumed to be: Jo<br>2400F 2.0E .<br>nanical connection<br>capable of withsta<br>at joint 10 and 195   | int betw<br>with BC<br>int 2 SF<br>(by oth<br>nding 1<br>Ib uplit                              | veen the botto<br>DL = 10.0psf<br>2 2400F 2.0E<br>ers) of truss to<br>00 lb uplift at<br>to at joint 11.                                      | om<br>,<br>o<br>joint        |   | 1111.   | A A A A A A A A A A A A A A A A A A A   |  | EER. KINN  |

![](_page_14_Picture_9.jpeg)

818 Soundside Road Edenton, NC 27932

October 15,2024

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 BCEL Building Component Schut Information, purplication component component durate propagate component for the prevention. and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

| Job         | Truss | Truss Type     | Qty | Ply | 14 Overhills Creek-Roof-1 BNS GRH |           |
|-------------|-------|----------------|-----|-----|-----------------------------------|-----------|
| 24100066-01 | B7    | Piggyback Base | 3   | 1   | Job Reference (optional)          | 168913528 |

# Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:54 ID:49G4Hb8FbprqoJte5ueH9QyV?AJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

![](_page_15_Figure_4.jpeg)

# Plate Offsets (X, Y): [5:0-6-4,0-2-0], [6:0-3-4,0-2-0], [15:0-5-8,0-2-0]

|              | <i>(</i> <b>^</b>      |                           |  |                 |                        |           |                                 |            |       |        |     | DI 4750        |          |
|--------------|------------------------|---------------------------|--|-----------------|------------------------|-----------|---------------------------------|------------|-------|--------|-----|----------------|----------|
| Loading      | (pst)                  | spacing                   | 2-0-0                                  |                 | 5                      | 0.00      | DEFL                            | in         | (IOC) | I/detl | L/d | PLATES         | GRIP     |
| ICLL (roof)  | 20.0                   | Plate Grip DOL            | 1.15                                   |                 | IC                     | 0.99      | Vert(LL)                        | -0.12      | 11-13 | >999   | 240 | MT20           | 244/190  |
| Snow (Pf/Pg) | 18.9/20.0              | Lumber DOL                | 1.15                                   |                 | BC                     | 0.62      | Vert(CT)                        | -0.19      | 11-13 | >999   | 180 |                |          |
| TCDL         | 10.0                   | Rep Stress Incr           | YES                                    |                 | WB                     | 0.48      | Horz(CT)                        | 0.03       | 9     | n/a    | n/a |                |          |
| BCLL         | 0.0*                   | Code                      | IRC2021                                | /TPI2014        | Matrix-MSH             |           |                                 |            |       |        |     |                |          |
| BCDL         | 10.0                   |                           |  |                 |                        |           |                                 |            |       |        |     | Weight: 210 lb | FT = 20% |
|              |                        |                           | 2)                                     | Wind: ASCE      | 7 16: \/ult_120mph     | (2 000    | rond quet)                      |            |       |        |     |                |          |
|              | 0                      |                           | 2)                                     | Vind 102mr      | h TCDL 6 Opering       |           | Onafi h 25ft                    | Cat        |       |        |     |                |          |
|              | 2X4 SP N0.2            |                           |  | II: Evo B: Eo   | placed: MW/EPS (or     |           | 0 p s i, n = 2 s i t            | , Gal.     |       |        |     |                |          |
| BOICHORD     | 2X4 SP N0.2            | * * * * * * * * * * * * * |  | Extorior(2E)    |                        | torior (  | (1) 2 0 10 to                   |            |       |        |     |                |          |
| WEBS         | 2x4 SP No.3 *Except    | t^ 13-5,11-5,11-6:2x4     | 4 SP                                   | 12 4 15 Evt     | -0-11-0102-0-10, 11    | 16 7 1    | 1) 2-0-10 (0<br>4. Interior (1) | <b>`</b>   |       |        |     |                |          |
|              | NO.2, 15-2:2x6 SP N    | 0.2                       |  | 16 7 14 to 20   | 101(2R) 12-4-1010      | 0 0 1 1   | 4, III.eII.01 (1)               | )          |       |        |     |                |          |
| BRACING      |                        |                           |  | Interior (1) 20 | 1.2 15 to 29 5 12 7    | 20-0-11   | 0 24-2-15,<br>ntilovor loft o   | nd         |       |        |     |                |          |
| TOP CHORD    | Structural wood shea   | athing directly applie    | d or                                   | right exposed   | -2-15 10 20-5-12 20    | und righ  | t ovposod.C                     | C          |       |        |     |                |          |
|              | 4-3-7 oc purlins, exc  | cept end verticals, ar    | nd                                     | for mombors     | and forces & MW/E      | DS for    | roactions sh                    | -0         |       |        |     |                |          |
|              | 2-0-0 oc purlins (2-2- | -0 max.): 5-6.            |  | Lumber DOL      | -1 60 ploto grip DC    |           |                                 | JWII,      |       |        |     |                |          |
| BOT CHORD    | Rigid ceiling directly | applied or 10-0-0 oc      | : 2)                                   |                 | 7 16: Dr 20 0 pof      |           |                                 | 1 15       |       |        |     |                |          |
|              | bracing.               |                           | 3)                                     | Dioto DOI -1    | 15); Da 20.0 psi (     |           | Luni DOL=                       | 1.15       |       |        |     |                |          |
| WEBS         | 1 Row at midpt         | 3-13, 5-11                |  |                 | . 15), Pg=20.0 psi, i  | 1 0. 0    | psi (Lum<br>Nuch Cot B: E       |            |       |        |     |                |          |
| REACTIONS    | (size) 9=0-3-8, 1      | 5=0-3-8                   |  | DUL=1.15 PI     | ale DOL=1.15), IS=     | 1.0, KC   | идп Сагь, г                     | ully       |       |        |     |                |          |
|              | Max Horiz 15=255 (L    | .C 12)                    | 4)                                     | Exp., Ce=0.8    | , CS=1.00, Cl=1.10     | , Lu=50   | )-U-U<br>or of min roof         | live       |       |        |     |                |          |
|              | Max Grav 9=1272 (L     | .C 3), 15=1336 (LC 2      | 29) <sup>4</sup>                       | lood of 12 0    | s been designed to     | r greate  |                                 | of on      |       |        |     |                |          |
| FORCES       | (lb) - Maximum Com     | pression/Maximum          | ,                                      | IUau UI 12.0 p  | on concurrent with     | t 1001 it | au or 13.9 p                    | 51 011     |       |        |     |                |          |
|              | Tension                | procolori/maximum         | E)                                     | Drewide edec    | uneto droinogo to p    |           | veter pending                   | ~          |       |        |     |                |          |
|              | 1-2=0/57 2-3=-1708     | /109 3-5=-1370/188        | 3)<br>3 6)                             | * This trues h  | luate urainage to pr   | event v   | valer portuiri                  | y.<br>Onof |       |        |     |                |          |
|              | 5-6876/105 6-7         | 1202/172 7-8807/          | <sup>2</sup> , 6)                      | This truss r    | as been designed i     | oraliv    |                                 | opsi       |       |        |     |                |          |
|              | 2-15-1381/130 8-0      | -1/00/77                  | 105,                                   | on the botton   | n chord in all areas   | where     | a rectangle                     |            |       |        |     |                |          |
|              | 14-15-250/471 13-      | 1/183/1310                |  | 3-06-00 tall 0  | y 2-00-00 wide will    |           | Plan the boll                   | 0111<br>¢  |       |        |     |                |          |
|              | 11-13-02/00/ 10-1      | 1-02/636 0-10-66          | 3/75 -                                 | chord and an    | y other members, v     |           | DL = 10.0psi                    | I.         |       |        |     | minin          | 11111    |
| WEBS         | 3-14-0/205 3-13-4      | 13/12/ 5-13-3/603         | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | All bearings a  | are assumed to be      | 5P NO.    | ∠ .                             |            |       |        |     | W'TH CA        | ROUL     |
| WLD0         | 5-11-278/76 6-11-      |                           | y, 8)                                  | Graphical pu    | riin representation of | loes no   | ot depict the s                 | size       |       |        | 1   | a''            | Jon the  |
|              | 2-14-0/866 7-107       | 55/139 8-1026/11          | ,<br>10                                | or the orienta  | mon of the purlin al   | ung the   | top and/or                      |            |       |        | SI  | 0'.EE89        | GAN'I    |
|              | 2 14-0/000, 1-10=1     | 00/100, 0-10-00/11        | 10                                     | pottom chord    |                        |           |                                 |            |       |        | 57  | 1251           | This and |
| NULES        |                        |                           | LC                                     | AD CASE(S)      | Standard               |           |                                 |            |       | 2      |     | 101            | n U      |

1)

Scale = 1:69.4

Unbalanced roof live loads have been considered for this design.

![](_page_15_Figure_9.jpeg)

SEAL

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 BCEL Building Component Schut Information, purplication component component durate propagate component for the prevention. and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

| Job         | Truss | Truss Type                      | Qty | Ply | 14 Overhills Creek-Roof-1 BNS GRH |           |
|-------------|-------|---------------------------------|-----|-----|-----------------------------------|-----------|
| 24100066-01 | C1    | Piggyback Base Structural Gable | 1   | 1   | Job Reference (optional)          | 168913529 |

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:54 ID:00Cl97cLqcHQTdc9i48UwsyV?Wy-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

![](_page_16_Figure_5.jpeg)

| Loading<br>TCLL (roof)<br>Snow (Pf/Pg)<br>TCDL<br>BCLL<br>BCDL  | 1,  | (psf)<br>20.0<br>8.9/20.0<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   | 1-11-4<br>1.15<br>1.15<br>YES<br>IRC2021/TPI2014                   | <b>CSI</b><br>TC<br>BC<br>WB<br>Matrix-MSH  | 0.14<br>0.26<br>0.14  | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)                   | in<br>-0.02<br>-0.03<br>0.01  | (loc)<br>31-33<br>31-33<br>24 | l/defl<br>>999<br>>999<br>n/a     | L/d<br>240<br>180<br>n/a    | PLATES<br>MT20<br>Weight: 306 lb  | <b>GRIP</b><br>244/190<br>FT = 20%               |  |
|---|---|---|---|--|---|---|--|---|-------------------------------|-----------------------------------|-----------------------------|---|--|--|
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>JOINTS | R         ORD         2x4 SP No.2         ORD         2x4 SP No.2         Second Stream         Forces         Forces         Forces         Second Stream         Second Stream         Forces         Second Stream         Forces         Second Stream         Forces         Second Stream         Second Stream         Forces         Second Stream         Second Stream         Second Stream         Second Stream         Forces         Second Stream         SecondS |   |   |  | Max Grav 24=19<br>26=18<br>28=20<br>30=31<br>35=26<br>37=19<br>40=19<br>42=24<br>(lb) - Maximum C<br>Tension<br>1-2=0/51, 2-3=-1<br>4-5=-89/103, 5-7<br>8-9=-150/249, 9-<br>10-11=-122/207,<br>12-13=-122/207,<br>12-13=-122/207,<br>14-15=-139/180,  | 25=215 (LC<br>, 27=192 (LC<br>, 29=179 (LC<br>, 34=637 (LC<br>, 33=192 (LC<br>, 41=179 (LC<br>, 41=179 (LC<br>, 43=188 (LC<br>on/Maximum<br>-4=-98/113,<br>7-8=-111/196<br>(71,<br>22/207,<br>22/207,<br>55/240,<br>14/128, | 30),<br>30),<br>30),<br>2),<br>29),<br>29),<br>29),<br>30) | <ol> <li>Unbalanced roof live loads have been considered<br/>this design.</li> <li>Wind: ASCE 7-16; Vult=130mph (3-second gust)<br/>Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=24<br/>II; Exp B; Enclosed; MWFRS (envelope) and C-C<br/>Exterior(2E) -0-11-6 to 2-2-8, Interior (1) 2-2-8 to<br/>12-4-15, Exterior(2R) 12-4-15 to 16-11-15, Interior<br/>16-11-15 to 20-0-1, Exterior(2R) 20-0-1 to 24-7-1,<br/>Interior (1) 24-7-1 to 33-4-6 zone; cantilever left at<br/>exposed; end vertical left and right exposed; C-C<br/>members and forces &amp; MWFRS for reactions shot<br/>Lumber DOL=1.60 plate grip DOL=1.33</li> <li>Truss designed for wind loads in the plane of the 1<br/>only. For studs exposed to wind (normal to the fa<br/>see Standard Industry Gable End Details as appli<br/>or consult qualified building designer as per ANSI.</li> <li>TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOI<br/>Plate DOL=1.15); Pg=20.0 psf (roof LL: Lum DOI<br/>Plate DOL=1.15); Pate DOL=1.15); Is=1.0; Rough Cat B<br/>Exp : Ce=0 9: Cs=1 00: Ct=1 10, Lu=50-0-0</li> </ol> |                               |                                   |                             |   |  |  |
| REACTIONS   | (size)<br>Max Horiz<br>Max Uplift   | 24=12-7-8<br>27=12-7-8<br>30=0-3-8,<br>36=14-9-8<br>40=14-9-8<br>43=-220 (l<br>24=-31 (Ll<br>26=-25 (Ll<br>28=-36 (Ll<br>35=-207 (l<br>35=-207 (l<br>39=-36 (Ll<br>41=-25 (Ll<br>43=-73 (Ll | a, 25=12-7-8, 26=12-7<br>b, 28=12-7-8, 29=12-7<br>34=14-9-8, 35=14-9-4<br>b, 37=14-9-8, 39=14-9<br>b, 41=14-9-8, 42=14-9<br>b, 41=14-9-8, 42=14-9<br>c, 41), 25=-83 (LC 14)<br>C 14), 25=-83 (LC 14)<br>C 14), 29=-48 (LC 14)<br>C 14), 29=-48 (LC 14)<br>C 14), 29=-48 (LC 13)<br>C 13), 42=-40 (LC 13)<br>C 13), 42=-85 (LC 13)<br>C 9) | -8,<br>-8,<br>-8,<br>-8,<br>-8,<br>-8,<br>-8,<br>-8,<br>-8,<br>-8, | $\begin{array}{l} 16\text{-}17\text{=-}139/180, 17\text{-}19\text{=-}114/128, \\ 19\text{-}20\text{=-}92/78, 20\text{-}21\text{=-}95/58, 21\text{-}22\text{=-}121/85, \\ 22\text{-}23\text{=-}0/51, 2\text{-}43\text{=-}146/69, 22\text{-}24\text{=-}157/33 \\ 42\text{-}43\text{=-}117/131, 41\text{-}42\text{=-}117/131, \\ 40\text{-}41\text{=-}117/131, 39\text{-}40\text{=-}117/131, \\ 37\text{-}39\text{=-}117/131, 39\text{-}40\text{=-}117/131, \\ 35\text{-}36\text{=-}117/131, 39\text{-}40\text{=-}117/131, \\ 33\text{-}34\text{=-}76/106, 31\text{-}33\text{=-}76/106, \\ 30\text{-}31\text{=-}76/106, 29\text{-}30\text{=-}77/108, \\ 28\text{-}29\text{=-}77/108, 27\text{-}28\text{=-}77/108, \\ 28\text{-}29\text{=-}77/108, 27\text{-}28\text{=-}77/108, \\ 24\text{-}25\text{=-}77/108, 25\text{-}26\text{=-}77/108, \\ 24\text{-}25\text{=-}77/108, 12\text{-}34\text{-}45\text{=-}135/68, 44\text{-}45\text{=-}134/70, \\ 15\text{-}44\text{=-}112/63, 14\text{-}44\text{=-}71/29, 31\text{-}44\text{=-}48/30, \\ 13\text{-}45\text{=-}55/39, 33\text{-}45\text{=-}54/38, 11\text{-}35\text{=-}42/8, \\ 9\text{-}36\text{=-}121/36, 8\text{-}37\text{=-}140/104, 7\text{-}39\text{=-}131/76, \\ 5\text{-}40\text{=-}132/62, 4\text{-}41\text{=-}130/54, 3\text{-}42\text{=-}148/88, \\ 16\text{-}29\text{=-}125/100, 17\text{-}28\text{=-}135/78, \\ 19\text{-}27\text{=-}131/62, 20\text{-}26\text{=-}132/54, \\ 21\text{-}25\text{=-}135/87 \\ \end{array}$ |   |  |   | Pla<br>DC<br>Ex               | te DDL=<br>DL=1.15 F<br>o.; Ce=0. | 1.15);<br>Plate D<br>9; Cs= | Pg=20.0 pst; Pf=<br>JOL=1.15); Is=1.<br>=1.00; Ct=1.10, L<br>ORTH CA<br>ORTH CA<br>ORTH CA<br>ORTH CA | -18.9 pst (Lum<br>); Rough Cat B; Fu<br>u=50-0-0 |  |

818 Soundside Road Edenton, NC 27932

October 15,2024

Continued on page 2

Scale = 1:75.4

Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. WARNING Design valid for use only with MTek connectors. This design is based only upon parameters and property incorporate this design is based only upon parameters and property incorporate this design into the overall building designer must verify the applicability of design parameters and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/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.sbcacomponents.com)

| Job         | Truss | Truss Type                      | Qty | Ply | 14 Overhills Creek-Roof-1 BNS GRH |           |
|-------------|-------|---------------------------------|-----|-----|-----------------------------------|-----------|
| 24100066-01 | C1    | Piggyback Base Structural Gable | 1   | 1   | Job Reference (optional)          | 168913529 |

- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding. 6)
- All plates are 2x4 MT20 unless otherwise indicated. 7)
- 8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web). 9) Gable studs spaced at 2-0-0 oc.
- 10) \* 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.
- 11) All bearings are assumed to be SP No.2.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 43, 31 lb uplift at joint 24, 74 lb uplift at joint 34, 207 lb uplift at joint 35, 46 lb uplift at joint 37, 36 lb uplift at joint 39, 40 lb uplift at joint 40, 25 lb uplift at joint 41, 85 lb uplift at joint 42, 48 lb uplift at joint 29, 36 lb uplift at joint 28, 40 lb uplift at joint 27, 25 lb uplift at joint 26, 83 lb uplift at joint 25 and 21 lb uplift at joint 30.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries. Inc. Tue Oct 15 11:28:54 ID:00Cl97cLqcHQTdc9i48UwsyV?Wy-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

![](_page_17_Picture_13.jpeg)

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 PCB Building Component Science Michael Component Advancing Component Advancing Component Advancing and PCB and Component Advancing Component Compone and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

| Job         | Truss | Truss Type     | Qty | Ply | 14 Overhills Creek-Roof-1 BNS GRH |           |
|-------------|-------|----------------|-----|-----|-----------------------------------|-----------|
| 24100066-01 | C2    | Piggyback Base | 4   | 1   | Job Reference (optional)          | 168913530 |

TCDL

BCLL

BCDL

WEBS

WEBS

FORCES

TOP CHORD

BOT CHORD

this design.

WEBS

NOTES

1)

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries. Inc. Tue Oct 15 11:28:54

Page: 1

![](_page_18_Figure_4.jpeg)

load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on

Provide adequate drainage to prevent water ponding.

\* This truss has been designed for a live load of 20.0psf

3-06-00 tall by 2-00-00 wide will fit between the bottom

Graphical purlin representation does not depict the size

chord and any other members, with BCDL = 10.0psf.

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

All bearings are assumed to be SP No.2.

All plates are 3x5 MT20 unless otherwise indicated.

on the bottom chord in all areas where a rectangle

overhangs non-concurrent with other live loads.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with 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 bilding 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.sbcacomponents.com)

4)

6)

7)

8)

9)

bottom chord.

LOAD CASE(S) Standard

Max Grav 11=1483 (LC 30), 18=1489 (LC 29)

(lb) - Maximum Compression/Maximum

1-2=0/60, 2-3=-1929/115, 3-5=-1620/194

8-9=-1922/114, 9-10=0/60, 2-18=-1560/138,

13-15=0/1098, 12-13=0/1381, 11-12=-52/329

3-17=0/178, 3-15=-414/122, 5-15=-1/585,

6-13=-1/566, 8-13=-415/122, 8-12=0/181,

2-17=0/1069, 9-12=0/1064, 5-13=-116/117

5-6=-1189/202, 6-8=-1611/194,

17-18=-217/455, 15-17=-21/1390,

Unbalanced roof live loads have been considered for

Tension

9-11=-1554/138

ORTH Without and the state 1111111111 SEAL 036322 G (1111111) October 15,2024

| Job         | Truss | Truss Type            | Qty | Ply | 14 Overhills Creek-Roof-1 BNS GRH |           |
|-------------|-------|-----------------------|-----|-----|-----------------------------------|-----------|
| 24100066-01 | D1    | Attic Supported Gable | 1   | 1   | Job Reference (optional)          | 168913531 |

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:55 ID:G8CEeYFKR9u5p?ZYFph0jCyV?3k-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

October 15,2024

818 Soundside Road Edenton, NC 27932

![](_page_19_Figure_3.jpeg)

Scale = 1:71.2

# Plate Offsets (X, Y): [5:0-2-10,0-1-11], [6:0-2-2,Edge], [10:0-2-2,Edge], [11:0-2-7,0-2-0], [16:Edge,0-1-8]

| Loading<br>TCLL (roof)<br>Snow (Pf/Pg)<br>TCDL<br>BCLL<br>BCCL   | (psf)<br>20.0<br>18.9/20.0<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  | 1-11-4<br>1.15<br>1.15<br>YES<br>IRC2021             | I/TPI2014  | <b>CSI</b><br>TC<br>BC<br>WB<br>Matrix-MSH  | 0.60<br>0.61<br>0.64   | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)   | in<br>n/a<br>n/a<br>0.00   | (loc)<br>-<br>-<br>16   | 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: 214 lb   | <b>GRIP</b><br>244/190<br>FT = 20%  |  |
|--|--|--|--|--|---|--|--|--|---|---|---|--|---|--|
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>JOINTS<br>REACTIONS | 2x6 SP No.2<br>2x4 SP No.2 *Excep<br>2.0E<br>2x4 SP No.3 *Excep<br>2x4 SP No.3<br>Structural wood she<br>6-0-0 oc purlins, ex<br>2-0-0 oc purlins (6-(<br>Rigid ceiling directly<br>bracing,<br>1 Brace at Jt(s): 22,<br>23, 24<br>(size) 16=21-7-<br>19=21-7-<br>Max Horiz 21=-229<br>Max Uplift 16=-186<br>20=-431<br>Max Grav 16=441 (<br>18=1162<br>20=68 (L | ot* 19-18:2x10 SP 2400<br>ot* 5-11:2x4 SP No.2<br>eathing directly applied of<br>cept end verticals, and<br>0-0 max.): 6-10.<br>applied or 10-0-0 oc<br>8, 17=21-7-8, 18=21-7-<br>(LC 11)<br>(LC 10), 17=-369 (LC 3<br>(LC 31), 21=-148 (LC 9<br>LC 30), 17=106 (LC 12)<br>(LC 32), 19=1208 (LC 3<br>(LC 32), 19=1208 (LC 3) | 1)<br>or 2)<br>or 3)<br>8, 4)<br>0),<br>), 5)        | Unbalanced i<br>this design.<br>Wind: ASCE<br>Vasd=103mg<br>II; Exp B; Ene<br>Exterior(2E) ·<br>Exterior(2E) ·<br>Exterior(2E) ·<br>Exterior(2E) ·<br>to 22-8-14 zco<br>vertical left an<br>forces & MW<br>DOL=1.60 pl.<br>Truss design<br>only. For stu<br>see Standard<br>or consult qu<br>TCLL: ASCE<br>Plate DOL=1<br>DOL=1.15 Pl<br>Exp.; Ce=0.9<br>This truss ha<br>load of 12.0 p | roof live loads have<br>7-16; Vult=130mph<br>h; TCDL=6.0psf; B<br>closed; MWFRS (er<br>0-9-14 to 2-3-5, Int<br>7-5-13 to 11-8-12, I<br>ior(2R) 14-5-3 to 11<br>ne; cantilever left a<br>nd right exposed; C-<br>FRS for reactions s<br>ate grip DOL=1.33<br>ed for wind loads ir<br>ds exposed to wind<br>laddstry Gable En<br>alified building desi<br>7-16; Pr=20.0 psf; I<br>ate DOL=1.15); Is=<br>; Cs=1.00; Ct=1.10<br>s been designed fo<br>ssf or 2.00 times fla | been of<br>$(3-\sec CDL=6$<br>drefter (1)<br>drefter (2)<br>drefter (3-8-2), $drefter (1)drefter (3-8-2)$ , $drefter (1)drefter (3-8-2)$ , $drefter (1)drefter (3-8-2)$ , $drefter (1)drefter (3-8-2)$ , $drefter (3-8-2)drefter (3-8-2)$ , $drefter (3-8-2)drefter (3-8-2)$ , $drefter (3-8-2)$ , $drefter (3-8-2)drefter (3-8-2)$ , $drefter (3-8$ | considered for<br>.0psf; h=25ft<br>.0psf; h=25ft<br>.0psf | or<br>; Cat.<br>5-13,<br>o<br>-8-2<br>end<br>()<br>ble,<br>PI 1.<br>1.15<br>Fully<br>f live<br>sf on | 14) Pro<br>bea<br>21,<br>369<br>15) Gra<br>or ti<br>bott<br>16) Attic<br>LOAD ( | vide meu<br>tring plat<br>186 lb u<br>1 lb uplift<br>uphical p<br>hical hical hical hical<br>hical hical hical hical hical<br>hical hical hical hical hical<br>hical hical hical hical hical hical hical<br>hical hical hical hical hical hical hical hical hical hical<br>hical hical | chanic:<br>e capa<br>plift at join<br>urlin re<br>ation c<br>d.<br>hecked<br>Star | al connection (b)<br>ble of withstand<br>joint 16, 431 lb u<br>t 17.<br>presentation dou<br>of the purlin alon<br>d for L/360 defle<br>ndard | others) of tri<br>ng 148 lb upi<br>plift at joint 2<br>ss not depict i<br>g the top and<br>ction. | uss to<br>ift at joint<br>0 and<br>the size<br>/or |
| FORCES<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>NOTES  | (b) - Maximum Con<br>Tension<br>2-21=-279/158, 1-2:<br>3-4=-53/229, 4-5=-4<br>6-7=-914/0, 7-8=-91<br>9-10=-914/0, 10-11:<br>12-13=-98/238, 13-<br>14-16=-294/142<br>20-21=-119/134, 17<br>16-17=-113/128<br>4-19=-783/0, 12-18:<br>22-23=0/885, 22-24<br>8-22=-40/33, 7-23=<br>3-20=-9/238, 13-17:   | e/65, 2-3=-221/131,<br>i31/171, 5-6=-853/0,<br>i4/0, 8-9=-914/0,<br>e-853/0, 11-12=-430/18<br>i4=-253/165, 14-15=0/5<br>-20=-123/134,<br>e-764/0, 5-23=0/885,<br>=0/885, 11-24=0/885,<br>6/83, 9-24=-7/82,<br>e-31/215   | 6)<br>7)<br>8)<br>9)<br>30, 10<br>50, 11<br>12<br>12 | overhangs nr<br>Provide adec<br>All plates are<br>Gable require<br>Truss to be fr<br>braced again<br>) Gable studs :<br>) * This truss h<br>on the botton<br>3-06-00 tall b<br>chord and an<br>) Ceiling dead<br>5-23, 22-23, :  | on-concurrent with<br>luate drainage to pr<br>2x4 MT20 unless of<br>se continuous botto<br>ully sheathed from of<br>st lateral movemen<br>spaced at 2-0-0 oc.<br>as been designed to<br>a chord in all areas<br>y 2-00-00 wide will<br>y other members, v<br>load (10.0 psf) on r<br>22-24, 11-24<br>are assumed to be  | other liv<br>revent vo<br>otherwi<br>m chor<br>one fac<br>t (i.e. d<br>for a liv<br>where<br>fit betw<br>with BC<br>nembe<br>SP No.  | re loads.<br>vater ponding<br>se indicated.<br>d bearing.<br>e or securely<br>iagonal web)<br>e load of 20.0<br>a rectangle<br>veen the botto<br>DL = 10.0pst<br>r(s). 4-5, 11- <sup>-</sup><br>2.   | g.<br>/<br>0psf<br>om<br>f.<br>12,   |   | Manna   |   | SEA<br>0363  | L<br>22<br>EEER. K  | and annunning                                      |

NOTES

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 BCEL Building Component Schut Information, purplication component component durate propagate component for the prevention. and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

| Job         | Truss | Truss Type | Qty | Ply | 14 Overhills Creek-Roof-1 BNS GRH |           |
|-------------|-------|------------|-----|-----|-----------------------------------|-----------|
| 24100066-01 | D2    | Attic      | 5   | 1   | Job Reference (optional)          | 168913532 |

![](_page_20_Figure_2.jpeg)

Scale = 1:74.6

# Plate Offsets (X, Y): [5:0-5-8,0-3-0], [6:0-5-8,0-3-0], [12:0-4-12,Edge], [13:0-4-12,Edge]

| Loading         (psf)         Spacing         2-0-0         CSI         DEFL         in         (loc)         !/def         L/d         PLATES           TCLL (roof)         20.0         Plate Grip DOL         1.15         TC         0.66         Vert(LL)         -0.31         12-13         >840         240         MT20           Snow (Pt/Pg)         18.9/20.0         Lumber DOL         1.15         BC         0.78         Vert(CT)         -0.42         12-13         >611         180           TCDL         10.0         Rep Stress Incr         YES         WB         0.36         Horz(CT)         0.00         11         n/a         n/a           BCLL         0.0*         Code         IRC2021/TPI2014         Matrix-MSH         Horz         -0.26         12-13         >615         360           BCDL         10.0         Horz         Horz         -0.26         12-13         >615         360         Horz  | <b>GRIP</b><br>244/190<br>FT = 20% |
|---|------------------------------------|
| <ul> <li>LUMBER<br/>TOP CHORD 2x6 SP No.2</li> <li>SX4 SP No.2 "Except" 13-12:2x10 SP 2400F<br/>2.0E</li> <li>Wind: ASCE 7-16; Vult=130mph (3-second gust)</li> <li>Vasd=103mph; TCDL=6.0ps; BCDL=6.0ps; Le25t; Cat.<br/>II; Exp SE Enclosed; WWFRS (envelope) and C-C</li> <li>Exterior(2E) -0-9-14 to 2-22, Interior (1) 12-22 to 7-5-13,</li> <li>Exterior(2R) 7-5-13 to 11-8-12, Interior (1) 12-22 to 7-5-13,</li> <li>Exterior(2R) 7-5-13 to 11-8-12, Interior (1) 11-8-12 to<br/>14-5-3, Exterior(2R) 7-5-13, Exterior(2R) 10-18-9-2, Interior (1) 11-8-12 to<br/>14-5-3, Exterior(2R) 7-6-13 to 11-8-12, Interior (1) 11-8-12 to<br/>14-5-3, Exterior(2R) 7-6-13, Exterior(2R)</li></ul> | ROUL<br>L<br>22<br>EER-ER          |

![](_page_20_Figure_8.jpeg)

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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 BCEL Building Component Schut Information, purplication component component durate propagate component for the prevention. and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

| Job         | Truss | Truss Type | Qty | Ply | 14 Overhills Creek-Roof-1 BNS GRH |           |
|-------------|-------|------------|-----|-----|-----------------------------------|-----------|
| 24100066-01 | D3    | Attic      | 4   | 1   | Job Reference (optional)          | 168913533 |

![](_page_21_Figure_2.jpeg)

Page: 1

![](_page_21_Figure_4.jpeg)

Scale = 1:74.6

# Plate Offsets (X, Y): [5:0-5-8,0-3-0], [6:0-5-8,0-3-0], [11:0-4-12,Edge], [12:0-4-12,Edge]

| Loading<br>TCLL (roof)<br>Snow (Pf/Pg)<br>TCDL<br>BCLL<br>BCDL  | (psf)<br>20.0<br>18.9/20.0<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>IRC202 <sup>2</sup>   | 1/TPI2014   | <b>CSI</b><br>TC<br>BC<br>WB<br>Matrix-MSH   | 0.66<br>0.78<br>0.36   | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)<br>Attic   | in<br>-0.31<br>-0.42<br>0.00<br>-0.26  | (loc)<br>11-12<br>11-12<br>10<br>11-12 | l/defl<br>>840<br>>611<br>n/a<br>>615   | L/d<br>240<br>180<br>n/a<br>360 | PLATES<br>MT20<br>Weight: 218 lb       | <b>GRIP</b><br>244/190<br>FT = 20% |           |
|---|---|--|---|---|--|--|---|--|--|---|---------------------------------|--|------------------------------------|-----------|
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>JOINTS<br>REACTIONS<br>FORCES<br>TOP CHORD<br>WEBS<br>NOTES<br>1) Unbalance<br>this design | 2x6 SP No.2<br>2x4 SP No.2 *Excep<br>2.0E<br>2x4 SP No.3 *Excep<br>Structural wood shea<br>5-11-15 oc purlins, 6-0<br>Rigid ceiling directly<br>bracing.<br>1 Brace at Jt(s): 14<br>(size) 10=0-3-8,<br>Max Horiz 13=225 (L<br>Max Grav 10=1363 (<br>(lb) - Maximum Com<br>Tension<br>1-2=0/52, 2-3=-1258<br>4-5=-465/147, 5-6=-4<br>7-8=-971/122, 8-9=-<br>9-10=-1497/0<br>10-13=-231/828<br>3-12=-92/434, 8-11=<br>4-14=-1027/168, 7-1<br>2-12=0/929, 9-11=0/<br>6-14=-55/345<br>ed roof live loads have b. | t* 12-11:2x10 SP 24(<br>t* 4-7:2x4 SP No.2<br>athing directly applied<br>except end verticals,<br>-0 max.): 5-6.<br>applied or 6-0-0 oc<br>13=0-3-8<br>(C 10)<br>(LC 3), 13=1413 (LC<br>pression/Maximum<br>/9, 3-4=-973/120,<br>425/161, 6-7=-463/14<br>1257/0, 2-13=-1557/*<br>-95/432,<br>4=-1023/178,<br>935, 5-14=-50/348,<br>been considered for | 2)<br>DOF<br>d or<br>and<br>3)<br>4)<br>5)<br>6)<br>144,<br>11,<br>7)<br>8)<br>9)<br>10<br>11<br>LC | Wind: ASCE<br>Vasd=103mp<br>II; Exp B; End<br>Exterior(2E) -<br>Exterior(2R)<br>14-5-3, Exter<br>to 21-9-4 zor<br>vertical left an<br>forces & MW<br>DOL=1.60 pl<br>TCLL: ASCE<br>Plate DOL=1<br>DOL=1.15 Pl<br>Exp.; Ce=0.9<br>This truss ha<br>load of 12.0 p<br>overhangs nd<br>Provide aded<br>* This truss h<br>on the botton<br>3-06-00 tall b<br>chord and an<br>Ceiling dead<br>4-14, 7-14<br>Bottom chord<br>All bearings a<br>) Graphical pu<br>or the orienta<br>bottom chord<br>Attic room ch | 7-16; Vult=130mpl<br>bh; TCDL=6.0ps; E<br>closed; MWFRS (e<br>0-9-14 to 2-2-2, In<br>7-5-13 to 11-8-12,<br>ior(2R) 14-5-3 to 1<br>re; cantilever left an<br>hd right exposed;C<br>FRS for reactions a<br>te grip DOL=1.33<br>7-16; Pr=20.0 psf;<br>ate DDL=1.15; Is;<br>; Cs=1.00; Ct=1.10;<br>s been designed for<br>psf or 2.00 times fla<br>on-concurrent with<br>juate drainage to p<br>as been designed to<br>pas been designed | h (3-sec<br>3CDL=6<br>nvelope<br>terior (1<br>Interior<br>8-8-2, II<br>and right<br>-C for n<br>shown;<br>(roof LL<br>Pf=18.9<br>=1.0; Rc<br>0, Lu=50<br>or great<br>at roof k<br>other lin<br>revent v<br>for a liv<br>where<br>I fit betw<br>membe<br>f) and a<br>sd only t<br>SP No.<br>does no<br>long the | ond gust)<br>.0psf; $h=25ft$ ;<br>.9) and C-C<br>.) 2-2-2 to 7-5<br>(1) 11-8-12 tc<br>therior (1) 18-<br>exposed ; en-<br>nembers and<br>Lumber<br>.: Lum DOL=:<br>.) psf (Lum<br>ough Cat B; F)-<br>.)-0-0<br>er of min roof<br>bad of 13.9 ps<br>re loads of 20.0<br>a rectangle<br>veen the botto<br>r(s). 3-4, 7-8,<br>dditional botto<br>o room. 11-12<br>2.<br>t depict the s<br>t top and/or | Cat.<br>-13,<br>-2<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15<br>-1,15 |  | With the second s |                                 | SEAL<br>OSCILLESS<br>SEAL<br>OSCILLESS | RO(11,1,1,1)<br>22<br>E.R. K. 1,11 | Manually, |

![](_page_21_Figure_10.jpeg)

G 11111111 October 15,2024

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| Job         | Truss | Truss Type   | Qty | Ply | 14 Overhills Creek-Roof-1 BNS GRH |           |
|-------------|-------|--------------|-----|-----|-----------------------------------|-----------|
| 24100066-01 | D4    | Attic Girder | 1   | 2   | Job Reference (optional)          | 168913534 |

![](_page_22_Figure_2.jpeg)

Scale = 1:74.9

| Plate Offsets (  | X, Y): [3:0-1-13,0-2-0]  | , [4:0-5-8,0-3-0], [6:  | 0-5-8,0-3-0                            | )], [7:0-1-13,0-2  | 2-0], [11:0-4-12,0-  | 3-8], [12  | :0-4-12,0-3-8  | ]                                     |   |  |  |  |  |   |
|--|--|---|--|--|--|--|--|---------------------------------------|---|--|--|--|--|---|
| Loading<br>TCLL (roof)<br>Snow (Pf/Pg)<br>TCDL<br>BCLL<br>BCDL   | (psf)<br>20.0<br>18.9/20.0<br>10.0<br>0.0*<br>10.0   | <b>Spacing</b><br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code   | 2-0-0<br>1.15<br>1.15<br>NO<br>IRC2027 | I/TPI2014  | CSI<br>TC<br>BC<br>WB<br>Matrix-MSH  | 0.50<br>0.89<br>0.52   | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)<br>Attic  | in<br>-0.20<br>-0.34<br>0.01<br>-0.18 | (loc)<br>11-12<br>11-12<br>10<br>11-12  | l/defl<br>>999<br>>770<br>n/a<br>>914  | L/d<br>240<br>180<br>n/a<br>360  | PLATES<br>MT20<br>Weight: 408 lb   | <b>GRIP</b><br>244/190<br>FT = 205   | %   |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD   | 2x6 SP No.2<br>2x6 SP No.2 *Except<br>2.0E<br>2x4 SP No.3 *Except<br>Structural wood shee<br>6-0-0 oc purlins, exc<br>2-0-0 oc purlins, exc  | * 12-11:2x10 SP 24<br>* 3-7:2x4 SP No.2<br>athing directly applie<br>cept end verticals, a<br>0 may 1: 4-6          | 2)<br>100F<br>3)<br>ed or<br>nd 4)     | All loads are<br>except if note<br>CASE(S) sec<br>provided to d<br>unless otherw<br>Unbalanced<br>this design.<br>Wind: ASCE<br>Vasd=103mp   | considered equall<br>ed as front (F) or b<br>ction. Ply to ply col<br>listribute only load<br>wise indicated.<br>roof live loads hav<br>7-16; Vult=130mp<br>oh; TCDL=6.0psf; | y applied<br>ack (B) f<br>nnection<br>s noted a<br>re been o<br>bh (3-sec<br>BCDL=6      | d to all plies,<br>face in the LC<br>s have been<br>as (F) or (B),<br>considered fo<br>cond gust)<br>copsf; h=25ft;  | DAD<br>r<br>; Cat.                    | 15) Har<br>pro-<br>lb d<br>12 l<br>of s<br>othe<br>16) Attie<br>LOAD (<br>1) De | nger(s) o<br>vided su<br>own and<br>b up at<br>uch cont<br>ers.<br>c room c<br>CASE(S)<br>ead + Sn | r other<br>fficient<br>I 17 Ib<br>13-5-1<br>nection<br>hecke<br>) Stat | r connection dev<br>to support con-<br>up at 9-11-12,<br>2 on top chord.<br>a device(s) is the<br>d for L/360 defle<br>ndard | ice(s) shall<br>entrated loa<br>and 1139 lb<br>The design<br>⇒ responsibi<br>ection. | be<br>ad(s) 1617<br>down and<br>/selection<br>lity of |
| BOT CHORD<br>JOINTS<br>REACTIONS   | Rigid ceiling directly<br>bracing.<br>1 Brace at Jt(s): 15<br>(size) 10=0-3-8,<br>Max Horiz 13=211 (L<br>Max Gray 10=3285 (  | applied or 6-0-0 oc<br>13=0-3-8<br>C 8)<br>LC 17), 13=3120 (L   | 5)<br>C 17)                            | II: Exp B: Enclosed: MWFRS (envelope); cantilever leftIncrease=1.15and right exposed; end vertical left and right exposed;Uniform Loads (lb/ft)Lumber DOL=1.60 plate grip DOL=1.33Vert: 1-2=-48, 2-3=-68, 3-4=-48, 4-6=TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.157-8=-68, 8-9=-48, 12-13=-20, 11-12=Plate DOL=1.15; Pg=20.0 psf; Pf=18.9 psf (Lum3-14=-20, 14-15=-20, 7-11DOL=1.15 Plate DOL=1.15; Is=1.0; Rough Cat B; FullyConcentrated Loads (lb/ft) |  |  |  |                                       |   |  |  |  | 8, 4-6=-58,<br>11-12=-30,<br>20, 7-16=-2   | 6-7=-48,<br>10-11=-20,<br>0                           |
| FORCES   | (lb) - Maximum Com<br>Tension<br>1-2=-2941/0, 2-3=-26<br>4-5=-3808/261, 5-6=<br>6-7=-2489/204, 7-8=  | pression/Maximum<br>610/2, 3-4=-2089/19<br>-1862/333,<br>-2767/3, 8-9=-3022/<br>2525/0                              | 6)<br>7)<br>02,<br>//0,                | Provide adeo<br>* This truss h<br>on the botton<br>3-06-00 tall b<br>chord and an  | y, CS=1.00, Ct=1.1<br>quate drainage to p<br>has been designed<br>n chord in all area<br>by 2-00-00 wide wi<br>hy other members.   | o, Lu=50<br>prevent v<br>I for a liv<br>s where<br>Il fit betw                           | water ponding<br>e load of 20.0<br>a rectangle<br>veen the botto   | g.<br>)psf<br>om                      |   | Vert: 17<br>(F)  | =-859  | (B), 18=-605 (B  | , 19=-839 (  | F), 20=-585   |
| BOT CHORD<br>WEBS  | 10-13=-220/2086<br>3-14=-1018/91, 14-1<br>15-16=-486/1914, 7-<br>2-12=-2/393, 8-11=-<br>9-11=0/2462, 4-14=0<br>5-15=-917/81, 5-16=   | -3223/0<br>5=-986/94,<br>16=-651/88,<br>32/350, 1-12=0/242(<br>)/229, 4-15=-112/26<br>-2171/103, 6-16=-3/           | 8)<br>9)<br>6, 10<br>74, 11<br>/898    | Ceiling dead<br>3-14, 14-15,<br>Bottom chorc<br>chord dead lo<br>) All bearings a<br>) Graphical pu<br>or the orienta  | load (10.0 psf) on<br>15-16, 7-16<br>d live load (40.0 ps<br>oad (5.0 psf) appli<br>are assumed to be<br>rlin representation<br>ation of the purlin a                        | membe<br>of) and a<br>ed only t<br>SP No.<br>does no<br>along the                        | r(s). 2-3, 7-8,<br>dditional botto<br>o room. 11-1<br>2 .<br>ot depict the s<br>top and/or                           | om<br>2<br>size                       |   | 4  | the second   | ORTH CA  | ROLI   |   |
| NOTES<br>1) 2-ply truss<br>(0.131"x3"<br>Top chord<br>staggered<br>Bottom ch<br>staggered<br>oc.<br>Web conn | to be connected toget<br>) nails as follows:<br>s connected as follows<br>at 0-6-0 oc, 2x4 - 1 rov<br>ords connected as follows<br>at 0-9-0 oc, 2x10 - 2 ro<br>ected as follows: 2x4 - | her with 10d<br>: 2x6 - 2 rows<br>w at 0-9-0 oc.<br>ows: 2x6 - 2 rows<br>ows staggered at 0-1<br>1 row at 0-9-0 oc. | 12<br>13<br>9-0<br>14                  | bottom chord<br>) Use Simpsor<br>14-10dx1 1/2<br>left end to co<br>chord.<br>) Use Simpsor<br>Truss, Single<br>the left end to<br>chord.<br>) Fill all nail ho   | A<br>Strong-Tie HTU2<br>Truss) or equival<br>nnect truss(es) to<br>Strong-Tie LUS2<br>Ply Girder) or equival<br>p connect truss(es<br>ples where hanger                      | 26 (10-16<br>ent at 9-<br>front fac<br>i6 (4-10c<br>uivalent<br>i) to front<br>is in cor | 6d Girder,<br>11-12 from the<br>e of bottom<br>I Girder, 3-10<br>at 13-5-12 fro<br>t face of botto<br>ttact with lum | d<br>om<br>om<br>ber.                 |   | THUNK  |  | SEA<br>0363  |  | Annunun<br>Annunun<br>Annunun                         |

October 15,2024

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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 a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BC2E Building Component Schut beformation, available from the Structure Building Component Advanciation (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

| Job         | Truss | Truss Type  | Qty | Ply | 14 Overhills Creek-Roof-1 BNS GRH |           |
|-------------|-------|-------------|-----|-----|-----------------------------------|-----------|
| 24100066-01 | E1    | Flat Girder | 1   | 2   | Job Reference (optional)          | 168913535 |

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:55 ID:xSpDQIqRxEc1fPDKLmaxhYyV?fj-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f \_\_\_\_\_

Page: 1

![](_page_23_Figure_5.jpeg)

Scale = 1:52.8

| Loading<br>TCLL (roof)<br>Snow (Pf/Pg)<br>TCDL<br>BCLL<br>BCDL   | (psf)<br>20.0<br>18.9/20.0<br>10.0<br>0.0*<br>10.0   | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code   | 2-0-0<br>1.15<br>1.15<br>NO<br>IRC2021/TPI2014   | CSI<br>TC<br>BC<br>WB<br>Matrix-MP  | 0.79<br>0.05<br>0.10  | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)  | in<br>0.00<br>0.00<br>0.00  | (loc)<br>3-4<br>3-4<br>3 | l/defl<br>>999<br>>999<br>n/a | L/d<br>240<br>180<br>n/a | PLATES<br>MT20<br>Weight: 107 lb | <b>GRIP</b><br>244/190<br>FT = 20%                |          |
|--|--|--|--|---|---|---|---|--------------------------|-------------------------------|--------------------------|----------------------------------|---|----------|
| LUMBER<br>TOP CHORD<br>3OT CHORD<br>WEBS<br><b>BRACING</b><br>TOP CHORD<br>3OT CHORD<br>WEBS<br><b>REACTIONS</b> (9<br>M<br>FORCES<br>TOP CHORD<br>3OT CHORD<br>WEBS<br>NOTES<br>1) 2-ply truss tr<br>(0.131"x3")<br>Top chords<br>oc.<br>Bottom chor<br>staggered a<br>Web connec<br>2) All loads are<br>except if not<br>CASE(S) se<br>provided to<br>unless other<br>3) Wind: ASE(S) se<br>provided to<br>unless other<br>3) Wind: ASE(S) se<br>provided to<br>unless other<br>and right ex<br>Lumber DOI | 2x4 SP No.1<br>2x10 SP 2400F 2.0E<br>2x4 SP No.3<br>2-0-0 oc purlins: 1-2.<br>Rigid ceiling directly<br>bracing.<br>1 Row at midpt<br>size) 3= Mecha<br>fax Horiz 4=-229 (Li<br>fax Uplift 3=-392 (Li<br>fax Grav 3=1322 (Li<br>(lb) - Maximum Com<br>Tension<br>1-4=-688/355, 1-2=-9<br>3-4=-206/182<br>1-3=-345/345<br>o be connected toget<br>nails as follows:<br>connected as follows:<br>connected as follows:<br>ds connected as follows:<br>ds connected as follows<br>ds connected as follows:<br>ction. Ply to ply com<br>distribute only loads i<br>wise indicated.<br>57-16; Vult=130mph<br>ph; TCDL=6.0psf; B0<br>ciolosed; MWFRS (en<br>posed ; end vertical I<br>L=1.60 plate grip DO | , except end verticals<br>applied or 10-0-0 oc<br>1-4, 2-3<br>nical, 4= Mechanical<br>C 7)<br>C 6), 4=-378 (LC 5)<br>C 20), 4=1062 (LC 2<br>pression/Maximum<br>91/68, 2-3=-652/33<br>ther with 10d<br>c: 2x4 - 1 row at 0-9-0<br>cows: 2x10 - 2 rows<br>1 row at 0-9-0 oc.<br>applied to all plies,<br>ck (B) face in the LO/<br>ections have been<br>noted as (F) or (B),<br>(3-second gust)<br>CDL=6.0psf; h=25ft; (<br>velope); cantilever le<br>eft and right exposed<br>L=1.33 | <ul> <li>4) TCLL: A<br/>Plate DC<br/>DOL=1.1<br/>Exp.; Ce</li> <li>5) Provide a</li> <li>6) * This true<br/>on the bc<br/>3-06-00 f<br/>chord an</li> <li>7) Refer to</li> <li>8) Provide a</li> <li>9) Graphica<br/>or the orision of the orision of the orision<br/>bottom c</li> <li>10) Use Sim<br/>Truss, Si<br/>left end t<br/>chord.</li> <li>11) Fill all na</li> <li>12) Hanger(s<br/>provided<br/>lb down a<br/>design/ss<br/>responsi</li> <li>LOAD CASE<br/>1) Dead +<br/>ND Increas</li> <li>1) Dead +<br/>Vert:<br/>Concer</li> <li>24.</li> </ul> | SCE 7-16; Pr=20.0 ps<br>L=1.15); Pg=20.0 ps<br>S Plate DOL=1.15); I<br>=0.9; Cs=1.00; Ct=1.<br>dequate drainage to<br>ss has been designe<br>thom chord in all aree<br>all by 2-00-00 wide w<br>d any other members<br>girder(s) for truss to t<br>nechanical connectic<br>late capable of withs<br>2 Ib uplift at joint 3.<br>I purlin representatio<br>entation of the purlin<br>nord.<br>uson Strong-Tie LUS<br>rigle Ply Girder) or er<br>o connect truss(es) to<br>I holes where hange<br>) or other connection<br>sufficient to support<br>ind 23 Ib up at 1-9-1<br>lection of such conn<br>sility of others.<br>(S) Standard<br>Snow (balanced): Lu<br>=1.15<br>Loads (Ib/ft)<br>1-2=-58, 3-4=-20<br>trated Loads (Ib)<br>5=-987, 6=-611 (B) | f (roof LL<br>; Pf=18.5<br>s=1.0; Rc<br>10, Lu=56<br>prevent of<br>d for a liv<br>as where<br>vill fit betw<br>rruss conr<br>n (by oth<br>tanding 3<br>n does no<br>along the<br>26 (4-10c<br>uivalent<br>b back fac<br>r is in cor<br>device(s<br>concentra<br>2 on top<br>ection de<br>mber Inc | :: Lum DOL=:<br>psf (Lum<br>pugh Cat B; F<br>)-0-0<br>water ponding<br>e load of 20.0<br>a rectangle<br>veen the botto<br>mections.<br>ers) of truss t<br>78 lb uplift at<br>tot depict the s<br>tot and/or<br>l Girder, 3-10<br>at 1-9-12 from<br>ex of bottom<br>tact with lumi<br>) shall be<br>tited load(s) 1<br>chord. The<br>vice(s) is the<br>rease=1.15, F | 1.15<br>ully<br>j.<br>opsf<br>om<br>joint<br>ize<br>d<br>n the<br>ber.<br>000 |                          |                               |                          | SEA<br>0363                      | 22<br>E.B.E.H.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I | Manually |

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 **ANSUTP11 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.sbcacomponents.com)

![](_page_23_Picture_9.jpeg)

| Job         | Truss | Truss Type   | Qty | Ply | 14 Overhills Creek-Roof-1 BNS GRH |           |
|-------------|-------|--------------|-----|-----|-----------------------------------|-----------|
| 24100066-01 | L1    | Roof Special | 1   | 1   | Job Reference (optional)          | 168913536 |

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:55 ID:vVTT4LmQ4i6qTaqPMsYJLYyTVmh-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

![](_page_24_Figure_4.jpeg)

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

| Loading<br>TCLL (roof)<br>Snow (Pf/Pg)<br>TCDL<br>BCLL<br>BCDL  | (psf)<br>20.0<br>18.9/20.0<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>IRC2021/TPI20   | 4  | CSI<br>TC<br>BC<br>WB<br>Matrix-MSH   | 0.59<br>0.46<br>0.87  | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)  | in<br>-0.07<br>-0.13<br>0.03                                    | (loc)<br>9-10<br>9-10<br>12 | l/defl<br>>999<br>>999<br>n/a   | L/d<br>240<br>180<br>n/a | PLATES<br>MT20<br>Weight: 104 lb | <b>GRIP</b><br>244/190<br>FT = 20% |           |
|---|---|---|---|--|---|---|---|---|-----------------------------|---|--------------------------|----------------------------------|------------------------------------|-----------|
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS<br>FORCES<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>NOTES<br>1) Unbalance<br>this design<br>2) Wind: AS(<br>Vasd=103<br>II; Exp B;<br>Exterior(2<br>zone; can<br>and right 6<br>grip DOL= | 2x4 SP No.2<br>2x4 SP No.2<br>2x4 SP No.3<br>Structural wood shea<br>4-7-11 oc purlins, ei<br>2-0-0 oc purlins, (4-3<br>Rigid ceiling directly<br>bracing.<br>(size) 11=0-1-8,<br>Max Horiz 11=-100 (<br>Max Uplift 12=-7 (LC<br>Max Grav 11=682 (L<br>(Ib) - Maximum Com<br>Tension<br>1-2=-153/127, 2-3=-4<br>4-5=-1397/99, 5-6=-<br>1-11=-166/108<br>10-11=-49/395, 9-10<br>7-9=-99/1394<br>2-11=-660/51, 4-10=<br>3-10=-104/1674, 5-9<br>5-7=-1359/98, 6-12=<br>ed roof live loads have<br>n.<br>CE 7-16; Vult=130mph<br>Bmph; TCDL=6.0psf; BG<br>Enclosed; MWFRS (en<br>E) 2-0-3 to 8-4-14, Inte<br>tilever left and right exp<br>exposed; C-C for memb<br>or reactions shown; Lu<br>=1.33 | athing directly applied<br>xcept end verticals, a<br>-9 max.): 4-6.<br>applied or 10-0-0 oc<br>12= Mechanical<br>LC 13)<br>16)<br>.C 2), 12=859 (LC 43<br>pression/Maximum<br>643/99, 3-4=-1630/18<br>177/10, 6-7=-15/644,<br>l=-109/1270,<br>-1357/166,<br>=0/170, 4-9=-130/19<br>-870/54<br>been considered for<br>(3-second gust)<br>CDL=6.0psf; h=25ft; 0<br>velope) and C-C<br>rior (1) 8-4-14 to 18-to<br>posed ; end vertical levers and forces &<br>mber DOL=1.60 plate | <ul> <li>3) TCLL:<br/>Plate I<br/>DOL=<br/>Exp.; (</li> <li>4) Unbala<br/>design</li> <li>6) * This<br/>on the<br/>3-06-0<br/>chord</li> <li>7) Bearin</li> <li>8) Refer</li> <li>9) Provid<br/>bearin</li> <li>10) Provid<br/>bearin</li> <li>10) Provid<br/>bearin</li> <li>11) Graph<br/>or the<br/>botton</li> <li>LOAD CA</li> <li>5,</li> </ul> | ASCE<br>DOL=1<br>1.15 P<br>Ce=0.9<br>e adeet<br>truss F<br>bottor<br>0 tall b<br>bottor<br>0 tall b<br>bottor<br>0 tall b<br>and ar<br>gg are<br>e mecc<br>g plate<br>e mecc<br>g plate<br>cal putor<br>intata<br>a chore<br>SE(S) | 7-16; Pr=20.0 psf,<br>.15); Pg=20.0 psf;<br>late DOL=1.15); Is-<br>b; Cs=1.00; Ct=1.10;<br>snow loads have b<br>quate drainage to p-<br>has been designed<br>in chord in all areas<br>by 2-00-00 wide will<br>by other members.<br>assumed to be: Jo<br>er(s) for truss to tru-<br>hanical connection<br>at joint(s) 11.<br>hanical connection<br>capable of withsta<br>rlin representation<br>ation of the purlin at<br>Standard | (roof LL<br>Pf=18.5<br>=1.0; Rc<br>0, Lu=50<br>eeen cor<br>prevent y<br>for a liv<br>s where<br>I fit betw<br>bint 11 S<br>us contr<br>(by oth<br>anding 7<br>does no<br>long the | :: Lum DOL=<br>p psf (Lum<br>ugh Cat B; F<br>)-0-0<br>sidered for th<br>water ponding<br>e load of 20.0<br>a rectangle<br>veen the botto<br>SP No.2.<br>ers) of truss t<br>ers) of truss t<br>'lb uplift at jo<br>ot depict the s<br>top and/or | 1.15<br>Fully<br>his<br>g.<br>Dopsf<br>om<br>to<br>sint<br>size |                             | With the second s |                          | SEA<br>O363                      | ROLL<br>22<br>E.R. K               | a hanning |

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818 Soundside Road Edenton, NC 27932

G minimum) October 15,2024

| Job         | Truss | Truss Type   | Qty | Ply | 14 Overhills Creek-Roof-1 BNS GRH |           |
|-------------|-------|--------------|-----|-----|-----------------------------------|-----------|
| 24100066-01 | L2    | Roof Special | 1   | 1   | Job Reference (optional)          | 168913537 |

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:56 ID:?IU67ftx2TK67SKEfNEVUSyTVp8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

![](_page_25_Figure_3.jpeg)

![](_page_25_Figure_4.jpeg)

![](_page_25_Figure_5.jpeg)

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

| Loading<br>FCLL (roof)<br>Snow (Pf/P<br>FCDL   | (psf)<br>20.0<br>g) 18.9/20.0<br>10.0<br>0.0*  | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code   | 2-0-0<br>1.15<br>1.15<br>YES                       | I/TPI2014   | CSI<br>TC<br>BC<br>WB<br>Matrix-MSH   | 0.53<br>0.55<br>0.57   | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)  | in<br>-0.09<br>-0.14<br>0.03                   | (loc)<br>7-8<br>7-8<br>10 | l/defl<br>>999<br>>999<br>n/a | L/d<br>240<br>180<br>n/a  | PLATES<br>MT20 | <b>GRIP</b><br>244/190  |                                       |
|--|--|--|--|---|---|--|---|--|---------------------------|-------------------------------|---|----------------|-------------------------|---------------------------------------|
| BCDL   | 10.0   | Code   | 11(02021   | /11 12014   | Matrix-WOT  |  |   |  |                           |                               |   | Weight: 62 lb  | FT = 20%                |                                       |
| LUMBER<br>FOP CHOR<br>30T CHOR<br>WEBS<br>BRACING<br>FOP CHOR<br>30T CHOR<br>REACTION  | <ul> <li>2x4 SP No.2</li> <li>2x4 SP No.2</li> <li>2x4 SP No.3</li> <li>2x4 SP No.3</li> <li>3x4 SP No.3</li> <li>3x5 Structural wood sheat 6-0-0 oc purlins, exc.</li> <li>2-0-0 oc purlins, exc.</li> <li>2-0-0 oc purlins (3-7</li> <li>x5 Rigid ceiling directly bracing.</li> <li>x6 Size) 9=0-3-0, 1</li> <li>x7 Max Horiz 9=-70 (LC Max Uplift 9=-26 (LC Max Grav 9=521 (LC Max</li></ul> | athing directly applie<br>ept<br>-9 max.): 3-5.<br>applied or 10-0-0 oc<br>(0= Mechanical<br>: 16)<br>: 16)<br>: 22), 10=605 (LC 35  | 4)<br>5)<br>6)<br>d or<br>7)<br>5; 8)<br>9)<br>10, | Unbalanced<br>design.<br>Provide adec<br>* This truss h<br>on the botton<br>3-06-00 tall b<br>chord and an<br>Bearings are<br>Refer to girde<br>Provide mech<br>bearing plate<br>9.<br>) Graphical pu<br>or the orienta<br>bottom chorc | snow loads have b<br>quate drainage to p<br>has been designed<br>in chord in all areas<br>by 2-00-00 wide wil<br>by other members.<br>assumed to be: Jd<br>er(s) for truss to tru<br>hanical connection<br>capable of withsta<br>rlin representation<br>ation of the purlin a<br>d. | peen cor<br>for a liv<br>s where<br>Il fit betv<br>bint 9 SI<br>uss conr<br>(by oth<br>anding 2<br>does no<br>long the | nsidered for t<br>water pondin<br>e load of 20.1<br>a rectangle<br>veen the bott<br>P No.2 .<br>nections.<br>ers) of truss i<br>6 lb uplift at j<br>bt depict the s<br>e top and/or | his<br>g.<br>0psf<br>om<br>to<br>joint<br>size |                           |                               |   |                |                         |                                       |
| ORCES  | Tension  | pression/waximum   | LC   | AD CASE(S)  | Standard  |  |   |  |                           |                               |   |                |                         |                                       |
| TOP CHOR   | RD 1-2=-22/0, 2-3=-98/7<br>4-5=-293/28   | 74, 3-4=-1838/99,  |  |   |   |  |   |  |                           |                               |   |                |                         |                                       |
| SOT CHOR<br>WEBS   | RD 8-9=0/1242, 7-8=0/1<br>2-9=-163/91, 3-8=0/8<br>5-6=0/424, 4-7=-56/9<br>4-6=-1591/72, 5-10=  | 248, 6-7=-98/1835<br>87, 3-9=-1323/82,<br>92, 3-7=-138/603,<br>669/48  |  |   |   |  |   |  |                           |                               |   |                | 1111                    |                                       |
| OTES   | . 0= 100 1/12, 0 10=   |  |  |   |   |  |   |  |                           |                               |   | TH CA          | RO,"                    | 1.                                    |
| <ul> <li>Unbala<br/>this des</li> <li>Wind: A<br/>Vasd=1<br/>II; Exp<br/>Exterio<br/>zone; c</li> <li>and rigl<br/>MWFR.<br/>grip DC</li> <li>TCLL: A<br/>Plate D<br/>DOL=1</li> </ul> | nced roof live loads have<br>sign.<br>ASCE 7-16; Vult=130mph<br>03mph; TCDL=6.0psf; B(<br>B; Enclosed; MWFRS (enc)<br>(2E) 0-0 to 3-2-6, Interi<br>antilever left and right exp<br>nt exposed;C-C for memb<br>S for reactions shown; Lu<br>DL=1.33<br>ASCE 7-16; Pr=20.0 psf (<br>OL=1.15); Pg=20.0 psf; F<br>.15 Plate DOL=1.15); 1=10  | been considered for<br>(3-second gust)<br>CDL=6.0pst; h=25ft;<br>ivelope) and C-C<br>or (1) 3-2-6 to 11-7-<br>bosed ; end vertical I<br>ers and forces &<br>mber DOL=1.60 plat<br>roof LL: Lum DOL=1<br>2f=18.9 psf (Lum<br>1.0; Rough Cat B; Ft<br>Ju=50-00 | Cat.<br>12<br>eft<br>te<br>.15                     |   |   |  |   |  |                           | A THURSDAY                    | A THE AND A THE | SEA<br>0363    | L<br>22<br>EER<br>ILBER | A A A A A A A A A A A A A A A A A A A |

grip DOL=1.33 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0

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818 Soundside Road Edenton, NC 27932

October 15,2024

minum

| Job         | Truss | Truss Type  | Qty | Ply | 14 Overhills Creek-Roof-1 BNS GRH |           |
|-------------|-------|-------------|-----|-----|-----------------------------------|-----------|
| 24100066-01 | M1    | Jack-Closed | 1   | 1   | Job Reference (optional)          | 168913538 |

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:56 ID:STDrrWzvEM\_J7FryihVBbGyTWWC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

![](_page_26_Figure_4.jpeg)

Scale = 1:66.1

| Plate Offsets (   | X, Y): [2:0-1-0,0-2-0],  | [4:0-3-8,0-3-0]   |   |   |   |  |  |                             |                          |                               |                          |                                 |                                    |
|---|--|---|---|---|---|--|--|-----------------------------|--------------------------|-------------------------------|--------------------------|---------------------------------|------------------------------------|
| Loading<br>TCLL (roof)<br>Snow (Pf/Pg)<br>TCDL<br>BCLL<br>BCDL  | (psf)<br>20.0<br>13.9/20.0<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>IRC202 <sup>-</sup> | 1/TPI2014   | <b>CSI</b><br>TC<br>BC<br>WB<br>Matrix-MSH  | 0.86<br>0.30<br>0.18   | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)   | in<br>0.05<br>-0.08<br>0.01 | (loc)<br>6-7<br>6-7<br>6 | l/defl<br>>999<br>>999<br>n/a | L/d<br>240<br>180<br>n/a | PLATES<br>MT20<br>Weight: 92 lb | <b>GRIP</b><br>244/190<br>FT = 20% |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD  | 2x4 SP No.2<br>2x4 SP No.2<br>2x4 SP No.3 *Except<br>2.0E, 5-6:2x4 SP No<br>Structural wood shea<br>6-0-0 oc purlins, exc  | t* 8-2:2x8 SP 2400F<br>.2<br>athing directly applie<br>cept end verticals.  | 4)<br>5)<br>6)<br>d or 7)                           | * This truss h<br>on the bottor<br>3-06-00 tall b<br>chord and ar<br>Bearings are<br>Refer to gird<br>Provide mec<br>bearing plate<br>6 | as been designed<br>n chord in all areas<br>y 2-00-00 wide wil<br>y other members.<br>assumed to be: Jo<br>er(s) for truss to tru<br>nanical connection<br>capable of withsta | for a liv<br>s where<br>I fit betv<br>Dint 8 SI<br>uss conr<br>(by oth<br>anding 1 | e load of 20.0<br>a rectangle<br>veen the both<br>P No.2 .<br>nections.<br>ers) of truss to<br>05 lb uplift at | Dpsf<br>om<br>to<br>t joint |                          |                               |                          |                                 |                                    |
| BOT CHORD   | Rigid ceiling directly<br>bracing.   | applied or 7-1-12 oc  | LC  | DAD CASE(S)   | Standard  |  |  |                             |                          |                               |                          |                                 |                                    |
| WEBS  | 1 Row at midpt   | 5-6, 3-6  |   |   |   |  |  |                             |                          |                               |                          |                                 |                                    |
| REACTIONS   | (size) 6= Mecha<br>Max Horiz 8=328 (LC<br>Max Uplift 6=-105 (LC<br>Max Grav 6=536 (LC  | nical, 8=0-3-8<br>C 10)<br>C 10)<br>C 29), 8=564 (LC 2)   |   |   |   |  |  |                             |                          |                               |                          |                                 |                                    |
| FORCES  | (lb) - Maximum Com   | pression/Maximum  |   |   |   |  |  |                             |                          |                               |                          |                                 |                                    |
| TOP CHORD   | 2-8=-587/157, 1-2=0<br>3-5=-276/220, 5-6=-2  | /60, 2-3=-586/109,<br>243/226   |   |   |   |  |  |                             |                          |                               |                          |                                 |                                    |
| BOT CHORD   | 7-8=-662/584, 6-7=-2   | 294/464   |   |   |   |  |  |                             |                          |                               |                          |                                 |                                    |
| WEBS  | 3-7=0/167, 3-6=-491  | /240, 2-7=-169/371  |   |   |   |  |  |                             |                          |                               |                          | minin                           | U117.                              |
| NOTES   |  |   |   |   |   |  |  |                             |                          |                               |                          | IN'TH CA                        | ROUL                               |
| <ol> <li>Wind: ASC<br/>Vasd=103<br/>II; Exp B; I<br/>Exterior(21<br/>12-5-4 zor<br/>vertical lef<br/>forces &amp; M<br/>DOL=1.60</li> <li>TCLL: ASC<br/>Plate DOL<br/>DOL=1.15<br/>Exp.; Ce=I</li> <li>This truss<br/>load of 12<br/>overhanos</li> </ol> | CE 7-16; Vult=130mph<br>imph; TCDL=6.0psf; BC<br>Enclosed; MWFRS (en<br>E) -0-11-6 to 2-0-10, In<br>re; cantilever left and ri<br>t and right exposed;C-(<br>MWFRS for reactions sf<br>0 plate grip DOL=1.33<br>CE 7-16; Pr=20.0 psf; P<br>i Plate DOL=1.15); Is='<br>0.9; Cs=1.00; Ct=1.10<br>has been designed for<br>.0 psf or 2.00 times flat<br>s pon-concurrent with o | (3-second gust)<br>CDL=6.0psf; h=25ft;<br>velope) and C-C<br>terior (1) 2-0-10 to<br>ight exposed ; end<br>C for members and<br>hown; Lumber<br>roof LL: Lum DOL=1<br>Y=13.9 psf (Lum<br>1.0; Rough Cat B; Fu<br>greater of min roof 1<br>roof load of 13.9 ps<br>ther live loads | Cat.<br>.15<br>Jlly<br>f on                         |   |   |  |  |                             |                          | Wannus                        |                          | SEA<br>0363                     | L<br>22<br>LBERTIN                 |

October 15,2024

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| Job         | Truss | Truss Type | Qty | Ply | 14 Overhills Creek-Roof-1 BNS GRH |           |
|-------------|-------|------------|-----|-----|-----------------------------------|-----------|
| 24100066-01 | PB1   | Piggyback  | 2   | 1   | Job Reference (optional)          | 168913539 |

#### Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:56 ID:dmFR6rikcz04dGBeyRwMy9yV?h9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

![](_page_27_Figure_3.jpeg)

Scale = 1:31.4

| Plate Offsets (X, Y): | [2:0-2-1,0-1-0] | , [6:0-2-1,0-1-0] |
|-----------------------|-----------------|-------------------|
|-----------------------|-----------------|-------------------|

| Loading<br>TCLL (roof)   | (psf)<br>20.0   | Spacing<br>Plate Grip DOL  | 1-11-4<br>1.15  |   | CSI<br>TC   | 0.06   | 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>244/190 |          |
|--|---|--|---|---|---|--|--|---|-------|---------------|---------------------------------------|----------------|------------------------|----------|
| Snow (Pf/Pg)   | 13.9/20.0   | Lumber DOL   | 1.15  |   | BC  | 0.02   | Vert(CT)   | n/a   | -     | n/a           | 999                                   |                |                        |          |
| TCDL   | 10.0  | Rep Stress Incr  | YES   |   | WB  | 0.05   | Horz(CT)   | 0.00  | 15    | n/a           | n/a                                   |                |                        |          |
| BCLL   | 0.0*  | Code   | IRC202  | 1/TPI2014   | Matrix-MP   |  |  |   |       |               |                                       |                | FT and                 |          |
| BCDL   | 10.0  |  |   |   |   |  |  |   |       |               |                                       | Weight: 30 lb  | FT = 20%               |          |
| LUMBER<br>TOP CHORD<br>30T CHORD<br>DTHERS<br>BRACING<br>TOP CHORD<br>30T CHORD<br>REACTIONS                         | $\begin{array}{l} 2x4 \; SP \; \text{No.2} \\ 2x4 \; SP \; \text{No.2} \\ 2x4 \; SP \; \text{No.3} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$  | athing directly applie<br>applied or 10-0-0 oc<br>6=6-3-11, 8=6-3-11,<br>10=6-3-11, 11=6-3-<br>12), 11=54 (LC 12)<br>3), 8=-43 (LC 14), 10<br>1=-9 (LC 9)<br>30), 6=65 (LC 2), 8=<br>=109 (LC 2), 10=156<br>7 (LC 30), 15=65 (LC | 3)<br>d or<br>11, 6)<br>7)<br>9=-43<br>8)<br>159<br>9 (LC<br>9)<br>22) 9) | Truss design<br>only. For stu<br>see Standard<br>or consult qu<br>TCLL: ASCE<br>Plate DOL=1<br>DOL=1.15 P<br>Exp.; Ce=0.9<br>This truss ha<br>load of 12.0<br>overhangs n<br>Gable requir<br>Gable studs<br>* This truss h<br>on the bottor<br>3-06-00 tall b<br>chord and ar<br>All bearings a | ed for wind loads<br>ids exposed to wind<br>d Industry Gable E<br>lailfied building de<br>7-16; Pr=20.0 ps<br>.15); Pg=20.0 ps<br>late DOL=1.15); Is<br>b; Cs=1.00; Ct=1.1<br>s been designed<br>psf or 2.00 times f<br>on-concurrent with<br>es continuous bott<br>spaced at 2-0-0 o<br>has been designed<br>n chord in all area<br>by 2-00-00 wide w<br>by other members<br>are assumed to be<br>hanical connection | in the pland (norm<br>and norm<br>and Deta<br>signer as<br>f (roof LL;<br>FF=13.9;<br>==1.0; RC<br>for greated<br>lat roof lo<br>to other lin<br>tom chor<br>c.<br>d for a liv<br>s where<br>ill fit betwo<br>e SP No. | ane of the tru<br>al to the face<br>ils as applica<br>s per ANSI/TI<br>:: Lum DOL=<br>p psf (Lum<br>ough Cat B; F<br>er of min roof<br>oad of 13.9 pr<br><i>re</i> loads.<br>d bearing.<br>e load of 20.0<br>a rectangle<br>veen the botto<br>2. | ss<br>),<br>ble,<br>Pl 1.<br>1.15<br>fully<br>live<br>sf on<br>Opsf<br>om |       |               |                                       |                |                        |          |
| FORCES   | (lb) - Maximum Com  | pression/Maximum   | 10  | bearing plate   | e capable of withst   | anding 9   | lb uplift at jo  | int 2,  |       |               |                                       |                |                        |          |
| TOP CHORD  | 1-2=0/19, 2-3=-59/42  | 2, 3-4=-85/79,   |   | 43 lb uplift at<br>at ioint 2.  | i joint 10, 43 lb upl   | lift at join   | t 8 and 9 lb u   | plift   |       |               |                                       |                |                        |          |
| BOT CHORD  | 4-5=-85/78, 5-6=-58/<br>2-10=-29/73, 9-10=-2<br>6-8=-29/73  | /35, 6-7=0/19<br>29/73, 8-9=-29/73,  | 11  | ) See Standar<br>Detail for Co  | d Industry Piggyba<br>nnection to base t<br>fied building desig   | ack Trus<br>russ as a  | s Connection<br>applicable, or   |   |       |               | an'                                   | HTH CA         | ROLL                   | 1,       |
| WEBS   | 4-9=-67/0, 3-10=-17   | 7/177, 5-8=-177/176  | LC  | DAD CASE(S)   | Standard  | ,  |  |   |       |               | 52                                    | FES            | 97 y                   | in ,     |
| NOTES  |   |  |   | (-)   |   |  |  |   |       | 4             | 0                                     | QZ /           | A.                     | 4.       |
| 1) Unbalance   | ed roof live loads have   | been considered for  |   |   |   |  |  |   |       | -             |                                       | . ~            |                        |          |
| Wind: ASG<br>Vasd=103<br>II; Exp B;<br>Exterior(2<br>Exterior(2<br>zone; can<br>and right e<br>MWFRS fr<br>grip DOL= | IL<br>CE 7-16; Vult=130mph<br>mph; TCDL=6.0psf; BG<br>Enclosed; MWFRS (en<br>E) 0-2-14 to 3-2-14, Int<br>R) 3-9-9 to 6-7-8, Interi<br>tilever left and right exp<br>exposed;C-C for memb<br>or reactions shown; Lu<br>±1.33 | (3-second gust)<br>CDL=6.0psf; h=25ft;<br>velope) and C-C<br>erior (1) 3-2-14 to 3-<br>or (1) 6-7-8 to 7-4-4<br>posed ; end vertical li-<br>ers and forces &<br>mber DOL=1.60 plat   | Cat.<br>9-9,<br>eft<br>e  |   |   |  |  |   |       | 11111112      | A A A A A A A A A A A A A A A A A A A | SEA<br>0363    | EER.RA                 | annun 19 |

October 15,2024

Page: 1

TRENGINEERING BY A MITEK Affiliate

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| Job         | Truss | Truss Type | Qty | Ply | 14 Overhills Creek-Roof-1 BNS GRH |           |
|-------------|-------|------------|-----|-----|-----------------------------------|-----------|
| 24100066-01 | PB2   | Piggyback  | 22  | 1   | Job Reference (optional)          | 168913540 |

Scale = 1:29 Loading

TCLL (roof)

TCDL

BCLL

BCDL

LUMBER

OTHERS

BRACING

TOP CHORD

BOT CHORD

TOP CHORD

BOT CHORD

FORCES

TOP CHORD

BOT CHORD

this design

WFBS

NOTES

1)

REACTIONS (size)

Snow (Pf/Pg)

Page: 1

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries. Inc. Tue Oct 15 11:28:56 ID:SvciNunVCpnELBeoJi1mCQyV?h3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f -0-7-7 6-11-3-1-13 6-3-11 0-7-7 3-1-13 0-7-7 3-1-13 4x5 = 3 12 10 Г 3-1-15 9-0-1 -4-13 6 2x4 = 2x4 II 2x4 = 6-3-11 Spacing 2-0-0 CSI DEFL l/defl L/d PLATES GRIP (psf) in (loc) 20.0 Plate Grip DOL 1.15 TC 0.18 Vert(LL) n/a n/a 999 MT20 244/190 BC 13 9/20 0 Lumber DOL 1 15 0.07 Vert(TL) n/a n/a 999 10.0 Rep Stress Incr YES WB 0.02 Horiz(TL) 0.00 4 n/a n/a 0.0 Code IRC2021/TPI2014 Matrix-MP 10.0 Weight: 28 lb FT = 20%3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), 2x4 SP No.2 2x4 SP No.2 see Standard Industry Gable End Details as applicable, 2x4 SP No.3 or consult qualified building designer as per ANSI/TPI 1. 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum Structural wood sheathing directly applied or DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully 6-0-0 oc purlins. Exp.: Ce=0.9; Cs=1.00; Ct=1.10 Rigid ceiling directly applied or 10-0-0 oc 5) Gable requires continuous bottom chord bearing bracing. 6) Gable studs spaced at 4-0-0 oc. 1=7-7-2, 2=7-7-2, 4=7-7-2, 5=7-7-2, 7) This truss has been designed for a live load of 20.0psf 6=7-7-2, 7=7-7-2, 10=7-7-2 on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom Max Horiz 1=-56 (LC 9) chord and any other members. Max Uplift 1=-202 (LC 29), 2=-78 (LC 13), All bearings are assumed to be SP No.2 . 8) 4=-69 (LC 14), 5=-169 (LC 30), Provide mechanical connection (by others) of truss to 7=-78 (LC 13), 10=-69 (LC 14) bearing plate capable of withstanding 78 lb uplift at joint Max Grav 1=73 (LC 13), 2=397 (LC 29), 2, 69 lb uplift at joint 4, 202 lb uplift at joint 1, 169 lb uplift 4=363 (LC 30), 5=55 (LC 14), at joint 5, 78 lb uplift at joint 2 and 69 lb uplift at joint 4. 6=169 (LC 2), 7=397 (LC 29), 10=363 (LC 30) 10) See Standard Industry Piggyback Truss Connection (lb) - Maximum Compression/Maximum Detail for Connection to base truss as applicable, or Tension consult qualified building designer. 1-2=-132/181, 2-3=-125/96, 3-4=-125/95, LOAD CASE(S) Standard 4-5=-115/159 ORT 2-6=-68/67, 4-6=-68/72 3-6=-84/8Unbalanced roof live loads have been considered for SEAL Wind: ASCE 7-16; Vult=130mph (3-second gust) 036322

2) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-2-14 to 3-2-14, Interior (1) 3-2-14 to 3-9-9, Exterior(2R) 3-9-9 to 6-7-8, Interior (1) 6-7-8 to 7-4-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33

818 Soundside Road

Edenton, NC 27932

GI

mmm October 15,2024 VIIIIIIIIII

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| Job         | Truss | Truss Type | Qty | Ply | 14 Overhills Creek-Roof-1 BNS GRH |           |
|-------------|-------|------------|-----|-----|-----------------------------------|-----------|
| 24100066-01 | PB3   | Piggyback  | 1   | 2   | Job Reference (optional)          | 168913541 |

#### Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:56 ID:tUIq?wpNUk9oCfNN\_qbTq2yV?h0-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

![](_page_29_Figure_5.jpeg)

Scale = 1:29

|   |   |               |                          |   | _     |  |                        |             |                            |           |       |        |         |  |  |  |
|---|---|---------------|--------------------------|---|-------|--|------------------------|-------------|----------------------------|-----------|-------|--------|---------|--|--|--|
| Loa   | ding                                      |               | (psf)                    | Spacing                                   | 2-0-0 |  | CSI                    | 0.00        | DEFL                       | in        | (loc) | l/defl | L/d     | PLATES   | GRIP   |  |
| TCL   | L (root)                                  |               | 20.0                     | Plate Grip DOL                            | 1.15  |  |                        | 0.08        | Vert(LL)                   | n/a       | -     | n/a    | 999     | M120   | 244/190  |  |
| Sno   | w (Pf/Pg)                                 | 1             | 3.9/20.0                 | Lumber DOL                                | 1.15  |  | BC                     | 0.03        | Vert(TL)                   | n/a       | -     | n/a    | 999     |  |  |  |
| TCL   | )L  |               | 10.0                     | Rep Stress Incr                           | YES   |  | WB                     | 0.01        | Horiz(TL)                  | 0.00      | 4     | n/a    | n/a     |  |  |  |
| BCL   | _L  |               | 0.0*                     | Code                                      | IRC20 | 21/1912014   | Matrix-MP              |             |                            |           |       |        |         |  |  |  |
| BCI   | JL  |               | 10.0                     |   |       |  |                        |             |                            |           |       |        |         | Weight: 55 lb  | F1 = 20%   |  |
| LUN   | MBER                                      |               |                          |   | :     | <ol> <li>Unbalanced</li> </ol>                               | roof live loads hav    | e been      | considered fo              | r         |       |        |         |  |  |  |
| TOP   |   | 2x4 SP N      | 0.2                      |   |       |  | 7 16: Vult 120mm       | h (2 aa)    | and quat)                  |           |       |        |         |  |  |  |
| OTL   |   | 2X4 SP N      | 0.2                      |   |       | Vasd=103m  | h: TCDI -6 Opsf: I     | BCDI –      | Ond gust)<br>Onsf: h=25ft: | Cat       |       |        |         |  |  |  |
|   |   | 284 SP N      | 0.5                      |   |       | II; Exp B; Enclosed; MWFRS (envelope) and C-C                |                        |             |                            |           |       |        |         |  |  |  |
| BRA   |   | Christense    | المرامة مرامة            | athing diseath (opplie                    |       | Exterior(2E) 0-2-14 to 3-2-14, Interior (1) 3-2-14 to 3-9-9, |                        |             |                            |           |       |        |         |  |  |  |
| TOP   | CHORD                                     | Structura     | i wood snea              | athing directly applie                    | a or  | Exterior(2R)   | 3-9-9 to 6-7-8, Inte   | erior (1)   | 6-7-8 to 7-4-4             | 1         |       |        |         |  |  |  |
| BOT   |   | Rigid ceil    | ing directly             | applied or 10-0-0 oc                      |       | zone; cantile  | ver left and right e   | xposed      | ; end vertical             | left      |       |        |         |  |  |  |
|   |   | bracing.      | ing uncerty              |   | •     | and right exposed;C-C for members and forces &               |                        |             |                            |           |       |        |         |  |  |  |
| RE  | ACTIONS                                   | (size)        | 1=7-7-2 2                | =7-7-2 4=7-7-2 5=                         | 7-7-2 | MWFRS for reactions shown; Lumber DOL=1.60 plate             |                        |             |                            |           |       |        |         |  |  |  |
|   |   | (0.20)        | 6=7-7-2.7                | /=7-7-2, 10=7-7-2                         | ,     | grip DOL=1.  | 33                     |             |                            |           |       |        |         |  |  |  |
|   |   |               | - ,                      | , -                                       |       | <ul> <li>) I russ design</li> <li>anly For at</li> </ul>     | ied for wind loads i   | n the pl    | ane of the tru             | SS<br>\   |       |        |         |  |  |  |
|   |   | Max Horiz     | 1=-56 (LC                | 11)                                       |       | see Standar  | d Industry Cable F     | nd Deta     | ile as applical            | ),<br>bla |       |        |         |  |  |  |
|   | Max Uplift 1=-192 (LC 29), 2=-76 (LC 13), |               |                          |   |       | or consult qualified building designer as per ANSI/TPI 1.    |                        |             |                            |           |       |        |         |  |  |  |
|   | 4=-67 (LC 14), 5=-160                     |               |                          |   | ),    | 3) TCLL: ASCE  | 7-16: Pr=20.0 psf      | (roof Ll    | : Lum DOL=                 | 1.15      |       |        |         |  |  |  |
|   |   |               | 7=-76 (LC                | 13), 10=-67 (LC 14)                       | )     | Plate DOL=1  | .15); Pg=20.0 psf;     | Pf=13.9     | ) psf (Lum                 |           |       |        |         |  |  |  |
|   |   | Max Grav      | 1=/1 (LC                 | 13), 2=385 (LC 29),                       |       | DOL=1.15 P   | late DOL=1.15); Is     | =1.0; Ro    | ough Cat B; F              | ully      |       |        |         |  |  |  |
|   |   |               | 4=352 (LC                | (10, 30), 3=32 (LC 14), 30, 7=395 (LC 20) |       | Exp.; Ce=0.9   | ; Cs=1.00; Ct=1.1      | 0           |                            |           |       |        |         |  |  |  |
|   |   |               | 10-352 (LC               | (10, 20)                                  |       | <ol><li>Gable requir</li></ol>                               | es continuous botte    | om choi     | d bearing.                 |           |       |        |         |  |  |  |
| FOR   | PCES                                      | (lb) - Max    |                          | pression/Maximum                          |       | <ol> <li>Gable studs</li> </ol>                              | spaced at 4-0-0 oc     |             |                            |           |       |        |         |  |  |  |
| FOR   | NOE3                                      | Tension       |                          | pression/maximum                          |       | <ol> <li>This truss h</li> </ol>                             | nas been designed      | for a liv   | e load of 20.0             | Opsf      |       |        |         |  |  |  |
| TOF   | CHORD                                     | 1-2=-126      | /175. 2-3=- <sup>-</sup> | 122/90. 3-4=-123/89.                      | _     | on the bottor  | n chord in all areas   | s where     | a rectangle                | ~~~       |       |        |         | MILLIN   | 1111   |  |
|   |   | 4-5=-110      | /152                     |   | ,     | chord and ar   | by 2-00-00 wide wi     | ii iii belv | veen me bollo              | 511       |       |        |         | WHY CA   | Pall   |  |
| BO  | T CHORD                                   | 2-6=-71/7     | 4, 4-6=-71/              | /80                                       |       | 0) All bearings  | are assumed to be      | SP No       | 2                          |           |       |        |         | alti   |  |  |
| WE  | BS  | 3-6=-87/9     | )                        |   |       | 1) Provide med   | hanical connection     | (by oth     | ers) of truss t            | 0         |       |        | K.      | O'EESS   | 10 Vin   |  |
| NO  | TES                                       |               |                          |   |       | bearing plate  | capable of withsta     | anding 7    | 6 lb uplift at i           | oint      |       | /      | 55      |  | The  |  |
| 1)  | 2-ply truss                               | s to be conn  | ected toget              | her as follows:                           |       | 2, 67 lb uplif   | at joint 4, 192 lb u   | ıplift at j | oint 1, 160 lb             | uplift    |       |        |         | 51 ×   | a. e   |  |
|   | Top chord                                 | ls connected  | d with 10d (             | 0.131"x3") nails as                       |       | at joint 5, 76   | lb uplift at joint 2 a | nd 67 lb    | uplift at joint            | 4.        |       |        |         | OF A   | 1 E E  |  |
|   | follows: 2x                               | x4 - 1 row at | t 0-9-0 oc.              |   |       |  |                        |             |                            |           |       | =      |         | SEA  | 4 <u>8</u> 8   |  |
|   | Bottom ch                                 | ords conne    | cted with 10             | 0d (0.131"x3") nails a                    | as    | 12) See Standard Industry Piggyback Truss Connection         |                        |             |                            |           |       |        |         |  |  |  |
| follows: 2x4 - 1 row at 0-9-0 oc.                         |   |               |                          |   |       | Detail for Connection to base truss as applicable, or        |                        |             |                            |           |       |        |         |  |  |  |
| 2) All loads are considered equally applied to all plies, |   |               |                          |   |       | consult qualified building designer.                         |                        |             |                            |           |       |        |         |  |  |  |
| except if noted as front (F) or back (B) face in the LOAD |   |               |                          |   | AD    | LUAD CASE(S)   | Standard               |             |                            |           |       |        | 10      | N. SNOW  | -FRIX S  |  |
|   | provided to                               | o distribute  | only loads               | noted as (F) or (B)                       |       |  |                        |             |                            |           |       |        | 1       | P. GIN   | 5. 28 1  |  |
|   | unless oth                                | nerwise indic | cated.                   |   |       |  |                        |             |                            |           |       |        | 1       | CA C   | BEIN   |  |
|   |   |               |                          |   |       |  |                        |             |                            |           |       |        | 1111. 6 | in the second se |  |  |
|   |   |               |                          |   |       |  |                        |             |                            |           |       |        |         |  | I.I. C. S. C |  |

# October 15,2024

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 BCEL Building Component Science United for the Structure Buckling Component Advance Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

| Job         | Truss | Truss Type | Qty | Ply | 14 Overhills Creek-Roof-1 BNS GRH |           |
|-------------|-------|------------|-----|-----|-----------------------------------|-----------|
| 24100066-01 | PB4   | Piggyback  | 1   | 2   | Job Reference (optional)          | 168913542 |

3-1-13

-0-7-7

Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:56 ID:DS5j2etWJGn5IQFLnNAeX6yV?gx-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

6-3-11

![](_page_30_Figure_3.jpeg)

6-11-1

![](_page_30_Figure_5.jpeg)

Scale = 1:29.1

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

|  | (,,, ,): [=:0 = :;0 : 0];   | [::::::::::::::::::::::::::::::::::::::  |  |  |   |  |   |  |                      |  |                          |                                 |   |
|--|---|--|--|--|---|--|---|--|----------------------|--|--------------------------|---------------------------------|---|
| Loading<br>TCLL (roof)<br>Snow (Pf/Pg)<br>TCDL<br>BCLL<br>BCDL   | (psf)<br>20.0<br>13.9/20.0<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  | 3-0-0<br>1.15<br>1.15<br>NO<br>IRC2021   | /TPI2014   | <b>CSI</b><br>TC<br>BC<br>WB<br>Matrix-MP   | 0.11<br>0.11<br>0.01   | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)  | 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: 55 lb | <b>GRIP</b><br>244/190<br>FT = 20%  |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS<br>FORCES<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>NOTES<br>1) 2-ply truss<br>Top chord<br>follows: 22<br>Bottom ch<br>follows: 22<br>2) All loads a<br>except if n<br>CASE(S)<br>provided t<br>unless oth<br>3) Unbalance<br>this design | 2x4 SP No.2<br>2x4 SP No.2<br>2x4 SP No.3<br>2-0-0 oc purlins (6-0<br>(Switched from shee<br>Rigid ceiling directly<br>bracing.<br>(size) 2=6-3-11,<br>7-6-3-11,<br>Max Horiz 2=-83 (LC<br>(LC 2), 7=<br>2)<br>(lb) - Maximum Com<br>Tension<br>1-2=0/29, 2-3=-220/4<br>4-5=0/29<br>2-6=-44/108, 4-6=-32<br>3-6=-105/0<br>is to be connected toget<br>is connected with 10d (<br>x4 - 1 row at 0-9-0 oc.<br>are considered equally<br>oted as front (F) or bar<br>section. Ply to ply com<br>rewise indicated.<br>ed roof live loads have<br>n. | -0 max.)<br>applied Spacing > 2-8-0<br>applied or 10-0-0 oc<br>4=6-3-11, 6=6-3-11,<br>11=6-3-11<br>11), 7=-83 (LC 11)<br>13), 4=-21 (LC 14)<br>2), 4=269 (LC 2), 6-<br>269 (LC 2), 11=269<br>appression/Maximum<br>148, 3-4=-220/146,<br>9/114<br>ther as follows:<br>(0.131"x3") nails as<br>0d (0.131"x3") nails as<br>0d (0.131"x3") nails as<br>plied to all plies,<br>ck (B) face in the LO)<br>nections have been<br>noted as (F) or (B),<br>been considered for | 4)<br>5)<br>-291<br>LC<br>7)<br>8)<br>9)<br>10)<br>11)<br>12)<br>s<br>AD<br>13)<br>14)<br>LO | Wind: ASCE<br>Vasd=103mp<br>II; Exp B; Enc<br>Exterior(2E)<br>zone; cantile<br>and right exp<br>MWFRS for I<br>grip DOL=1.3<br>Truss design<br>only. For stu<br>see Standard<br>or consult qu<br>TCLL: ASCE<br>Plate DOL=1<br>DOL=1.15 Pl<br>Exp.; Ce=0.9<br>This truss ha<br>load of 12.0 ţ<br>overhangs nu<br>Gable requirt<br>Gable studs *<br>non the bottom<br>3-06-00 tall b<br>chord and ar<br>All bearings a<br>Provide mecl<br>bearing plate<br>2, 21 lb uplift<br>uplift at joint<br>See Standard<br>Detail for Cou<br>consult qualif<br>Graphical pu<br>or the orienta<br>bottom chorce | 7-16; Vult=130m<br>h; TCDL=6.0psf;<br>closed; MWFRS (<br>0-2-14 to 3-2-14,<br>3-9-9 to 6-7-8, Int<br>ver left and right ef<br>osed;C-C for mer<br>reactions shown; I<br>33<br>ed for wind loads<br>dds exposed to wind<br>d Industry Gable E<br>alified building de<br>7-16; Pr=20.0 psf<br>late DOL=1.15); Is<br>b; Cs=1.00; Ct=1.1<br>s been designed<br>por-concurrent with<br>es continuous bot<br>spaced at 4-0-0 o<br>hans been designed<br>or-concurrent with<br>es continuous bot<br>spaced at 4-0-0 o<br>hans been designed<br>or-concurrent with<br>es continuous bot<br>spaced at 4-0-0 o<br>was been designed<br>or-concurrent with<br>es continuous bot<br>spaced at 4-0-0 o<br>hand to the purlin at<br>the field building designed<br>rlin representation<br>tion of the purlin at<br>the standard | bh (3-sec<br>BCDL=6<br>envelope<br>Interior (<br>erior (1)<br>exposed<br>mbers an<br>Lumber I<br>in the plan<br>d (norm<br>End Deta<br>signer as<br>f (roof LL<br>; Pf=13.9<br>s=1.0; RC<br>10<br>for great<br>ilat roof la<br>tom chore li<br>tom chor<br>c.<br>d for a liv<br>is where<br>ill fit betv<br>e SP No.<br>n (by oth<br>tanding 1<br>plift at joi<br>ack Truss<br>as a<br>along the | cond gust)<br>.0psf; h=25ft;<br>b) and C-C<br>1) 3-2-14 to 3<br>6-7-8 to 7-4-2<br>cond gust)<br>and of croces &<br>DOL=1.60 plating<br>ane of the tru<br>al to the face<br>ils as applical<br>s per ANSI/TF<br>c: Lum DOL=<br>0 psf (Lum<br>Dugh Cat B; F<br>er of min roof<br>pad of 13.9 pi<br>ve loads.<br>d bearing.<br>e load of 20.0<br>a rectangle<br>veen the botto<br>2.<br>ers) of truss t<br>3 lb uplift at j<br>nt 2 and 21 lb<br>s Connection<br>applicable, or<br>b to depict the s<br>top and/or | Cat.<br>-9-9,<br>I left<br>ite<br>ss<br>),<br>ble,<br>11.15<br>fully<br>live<br>sf on<br>opsf<br>om<br>oint<br>b |                      | Charles and a second seco |                          | SEA<br>0363                     | L<br>22<br>L<br>L<br>B<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>E |
|  |   |  |  |  |   |  |   |  |                      |  |                          |                                 |   |

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A MiTek Affilia 818 Soundside Road Edenton, NC 27932

| Job         | Truss | Truss Type | Qty | Ply | 14 Overhills Creek-Roof-1 BNS GRH |           |
|-------------|-------|------------|-----|-----|-----------------------------------|-----------|
| 24100066-01 | PB5   | Piggyback  | 1   | 1   | Job Reference (optional)          | 168913543 |

#### Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:56 ID:e1nshfwPcB9g9u\_wSWkL8kyV?gu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

. 49

![](_page_31_Figure_5.jpeg)

![](_page_31_Figure_6.jpeg)

Scale = 1:34.4

| Loading<br>TCLL (roof)<br>Snow (Pf/Pg)<br>TCDL<br>BCLL<br>BCDL  | (psf)<br>20.0<br>13.9/20.0<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>IRC2027  | I/TPI2014   | CSI<br>TC<br>BC<br>WB<br>Matrix-MP   | 0.20<br>0.06<br>0.03   | <b>DEFL</b><br>Vert(LL)<br>Vert(TL)<br>Horiz(TL)   | in<br>n/a<br>n/a<br>0.00  | (loc)<br>-<br>-<br>2 | 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: 23 lb | <b>GRIP</b><br>244/190<br>FT = 20% |
|---|---|---|--|---|--|--|--|---|----------------------|---|---|---------------------------------|------------------------------------|
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS  | 2x4 SP No.2<br>2x4 SP No.2<br>2x4 SP No.3<br>2x4 SP No.3<br>Structural wood she<br>5-4-5 oc purlins, ex<br>Rigid ceiling directly<br>bracing.<br>(size) $1=5-4-5, 2$<br>7=5-4-5, 8<br>Max Horiz $1=74$ (LC<br>Max Uplift $1=-211$ (L<br>5=-21 (LC<br>Max Grav $1=77$ (LC<br>(LC 30), 6<br>29) | athing directly applied<br>cept end verticals.<br>applied or 10-0-0 oc<br>2=5-4-5, 5=5-4-5, 6=5<br>3=5-4-5<br>12)<br>C 29), 2=-75 (LC 13),<br>30), 2=378 (LC 29), 5<br>3=188 (LC 29), 8=378 | 3)<br>4)<br>l or<br>-4-5,<br>5)<br>6)<br>6)<br>6)<br>7)<br>-4-5,<br>7)<br>-4-5,<br>8)<br>9)<br>(LC<br>10 | Truss design<br>only. For stu<br>see Standard<br>or consult qu<br>TCLL: ASCE<br>Plate DOL=1<br>DOL=1.15 P<br>Exp.; Ce=0.9<br>Gable requiri<br>Gable studs<br>* This truss I<br>on the bottor<br>3-06-00 tall b<br>chord and ar<br>All bearings :<br>Bearing at jo<br>value using /<br>designer sho<br>) Provide mec | ed for wind loads<br>ds exposed to wird<br>d Industry Gable E<br>alified building de:<br>7-16; Pr=20.0 psf;<br>15); Pg=20.0 psf;<br>14te DOL=1.15); Isb<br>c Cs=1.00; Ct=1.1<br>es continuous bott<br>spaced at 4-0-0 or<br>has been designed<br>n chord in all area<br>by 2-00-00 wide wi<br>by other members.<br>are assumed to be<br>int(s) 2, 5, 1, 7, 2 of<br>NNSI/TPI 1 angle t<br>uld verify capacity<br>hanical connection | in the pl<br>ind (norm<br>ind Deta<br>signer a:<br>f (roof LL<br>Pf=13.9<br>e1.0; Re<br>0<br>om chor<br>c.<br>l for a liv<br>s where<br>ll fit betw<br>s SP No.<br>consider<br>o grain f<br>o for ar<br>i of bear<br>n (by oth | ane of the trus<br>al to the face)<br>ils as applicat<br>s per ANSI/TF<br>er ANSI/TF<br>b psf (Lum<br>Dough Cat B; Fr<br>d bearing.<br>e load of 20.0<br>a rectangle<br>veen the botto<br>2.<br>s parallel to g<br>ormula. Build<br>ormula. Build<br>ng surface. | ss<br>,<br>le,<br>I 1.<br>.15<br>JIIy<br>psf<br>m<br>rain<br>rain |                      |   |   |                                 |                                    |
| <ul> <li>FORCES (Ib) - Maximum Compression/Maximum Tension</li> <li>TOP CHORD 1-2=-329/272, 2-3=-172/142, 3-4=-65/85, 5-7=0/0, 4-5=-80/84</li> <li>BOT CHORD 2-6=-90/62, 5-6=-37/40</li> <li>WEBS 3-6=-147/86</li> <li>NOTES</li> <li>1) Unbalanced roof live loads have been considered for this design.</li> <li>2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-2-14 to 3-2-14, Interior (1) 3-2-14 to 3-9-9, Exterior(2E) 3-9-9 to 5-2-9 zone; cantilever left and right exposed; c-C for members and forces 8. MWFEPS (to reactions shown)</li> </ul> |   |   |  | bearing plate<br>2, 21 lb uplift<br>uplift at joint<br>) See Standar<br>Detail for Co<br>consult quali<br>DAD CASE(S)   | capable of withst<br>at joint 5, 211 lb u<br>2.<br>d Industry Piggyba<br>nnection to base ti<br>fied building desig<br>Standard  | anding 7<br>uplift at ju<br>ack Trus<br>russ as a<br>ner.  | 5 lb uplift at jc<br>pint 1 and 75 l<br>s Connection<br>applicable, or   | b<br>b  |                      | Annu annu annu annu annu annu annu annu | A MARINE AND | SEA<br>0363                     |                                    |

Lumber DOL=1.60 plate grip DOL=1.33

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October 15,2024

| Job         | Truss | Truss Type | Qty | Ply | 14 Overhills Creek-Roof-1 BNS GRH |           |
|-------------|-------|------------|-----|-----|-----------------------------------|-----------|
| 24100066-01 | PB6   | Piggyback  | 1   | 1   | Job Reference (optional)          | 168913544 |

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:56 ID:tmpGZk12UyIOkGAeUuOS0eyV?gl-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

![](_page_32_Figure_3.jpeg)

Page: 1

![](_page_32_Figure_5.jpeg)

Scale = 1:32.6

| <b>Loading</b><br>TCLL (roof)<br>Snow (Pf/Pg)<br>TCDL<br>BCLL<br>BCDL   | (psf)<br>20.0<br>13.9/20.0<br>10.0<br>0.0*<br>10.0   | Spacing         1-           Plate Grip DOL         1.           Lumber DOL         1.           Rep Stress Incr         Y           Code         IF   | -11-4<br>15<br>15<br>ES<br>RC2021/TPI2014  | <b>CSI</b><br>TC<br>BC<br>WB<br>Matrix-MP  | 0.08<br>0.02<br>0.08  | 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: 29 lb | <b>GRIP</b><br>244/190<br>FT = 20% |  |
|---|--|--|--|--|---|--|--|-----------------------|-----------------------------|--------------------------|---------------------------------|------------------------------------|--|
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS<br>FORCES<br>TOP CHORD<br>BOT CHORD<br>BOT CHORD<br>WEBS<br>NOTES<br>1) Unbalanc<br>this desig<br>2) Wind: AS<br>Vasd=100<br>II; Exp B;<br>Exterior(2<br>vertical le<br>forces & I<br>DOL=1.6( | 2x4 SP No.2<br>2x4 SP No.2<br>2x4 SP No.3<br>Structural wood shea<br>6-0-0 oc purlins.<br>Rigid ceiling directly<br>bracing.<br>(size) 2=5-9-12,<br>9=5-9-12,<br>14=5-9-12<br>Max Horiz 2=59 (LC<br>Max Uplift 2=-17 (LC<br>(LC 14), 1<br>(LC 9), 14<br>Max Grav 2=62 (LC<br>(LC 30), 9<br>29), 11=67<br>(lb) - Maximum Com<br>Tension<br>1-2=0/18, 2-3=-131/5<br>4-5=-91/28, 5-6=-90/<br>2-10=-37/84, 9-10=-5<br>6-8=-37/84<br>4-9=-60/0, 3-10=-194<br>ed roof live loads have<br>n.<br>CE 7-16; Vult=130mph<br>Bmph; TCDL=6.0psf; BK<br>Enclosed; MWFRS (en<br>E) zone; cantilever left<br>ft and right exposed;C-<br>4/WFRS for reactions sl<br>0 plate grip DOL=1.33 | athing directly applied or<br>applied or 10-0-0 oc<br>6=5-9-12, 8=5-9-12, 10=5-9-12, 11=5-9-12, 11=5-9-12, 11=5-9-12, 11=5-9-12, 12, 11=59 (LC 12)<br>i9), 6=-8 (LC 10), 8=-59 0=-60 (LC 13), 11=-17<br>=-8 (LC 10)<br>30), 6=54 (LC 29), 8=16<br>I=103 (LC 2), 10=161 (L0<br>2 (LC 30), 14=54 (LC 29)<br>pression/Maximum<br>55, 3-4=-91/74, /57, 6-7=0/18<br>37/84, 8-9=-37/84, 4/260, 5-8=-195/205<br>been considered for<br>(3-second gust)<br>CDL=6.0psf; h=25ft; Cat<br>ivelope) and C-C<br>and right exposed ; end<br>C for members and<br>hown; Lumber | <ul> <li>3) Truss desig<br/>only. For s<br/>see Standa<br/>or consult of<br/>1 TCLL: ASC</li> <li>4) TCLL: ASC</li> <li>Plate DOL=<br/>DOL=1.15<br/>Exp.; Ce=0</li> <li>5) This truss t<br/>load of 12.0</li> <li>overhangs</li> <li>6) Gable requ</li> <li>7) Gable stud</li> <li>8) * This truss<br/>on the botto<br/>3-06-00 tal<br/>chord and 3:</li> <li>9) All bearing:</li> <li>10) Provide me<br/>bearing pla<br/>2, 8 lb uplif<br/>joint 8, 17 I</li> <li>11) See Standa<br/>Detail for C<br/>consult quat</li> <li>LOAD CASE(S)</li> </ul> | ned for wind loads<br>tuds exposed to win<br>rd Industry Gable E<br>jualified building det<br>F 7-16; Pr=20.0 psf;<br>Plate DOL=1.15); Is<br>9; Cs=1.00; Ct=1.1<br>ias been designed f<br>psf or 2.00 times f<br>non-concurrent with<br>ires continuous bott<br>s spaced at 2-0-0 oc<br>has been designed<br>by 2-00-00 wide wi<br>any other members.<br>s are assumed to be<br>chanical connection<br>te capable of withsta<br>at joint 6, 60 Ib uplio<br>to uplif at joint 2 and<br>rd Industry Piggyba<br>onnection to base ta<br>lified building desig<br>) Standard | in the pl<br>ad (norm<br>nd Deta<br>signer a<br>( roof Ll<br>or great 1.0; R<br>0<br>or great 1.0; R<br>0<br>or great 1.0; R<br>1 other li<br>or dreat 10<br>i other li<br>or dreat 10<br>for a liv<br>s where<br>Il fit betv<br>SP No<br>h (by oth<br>anding 2<br>ift at join<br>t at poin<br>t at bup<br>ack Truss as a<br>ner. | ane of the tru<br>al to the face<br>ils as applica<br>is per ANSI/TI<br>:: Lum DOL=<br>0 psf (Lum<br>ough Cat B; F<br>er of min roof<br>oad of 13.9 p<br>ve loads.<br>d bearing.<br>e load of 20.0<br>a rectangle<br>veen the botto<br>2.<br>ers) of truss t<br>7 lb uplift at j<br>t 10, 59 lb up<br>lift at joint 6.<br>s Connectionapplicable, or | iss<br>s),<br>ble,<br>PI 1.<br>1.15<br>Fully<br>f live<br>sf on<br>Opsf<br>om<br>to<br>joint<br>blift at |                       |                             |                          | SEA<br>0363                     | L<br>22<br>ILBERT                  | and an |
|   |  |  |  |  |   |  |  |                       |                             |                          | 1111111                         | LITT.                              |  |

October 15,2024

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 outlapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

| Job         | Truss | Truss Type | Qty | Ply | 14 Overhills Creek-Roof-1 BNS GRH |           |
|-------------|-------|------------|-----|-----|-----------------------------------|-----------|
| 24100066-01 | PB7   | Piggyback  | 10  | 1   | Job Reference (optional)          | 168913545 |

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:56 ID:HLVOCm3wntgzbkvD91y9eGyV?gi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

![](_page_33_Figure_3.jpeg)

5-9-12

Scale = 1:30.4

| Plate Offsets (X, Y): | [2:0-2-6,0-1-0], | [4:0-2-6,0-1-0] |
|-----------------------|------------------|-----------------|
|-----------------------|------------------|-----------------|

|  |   |  | -                                       |  |  |  |  |  |                      |                             |                          |                                 |                                    |
|--|---|--|---|--|--|--|--|--|----------------------|-----------------------------|--------------------------|---------------------------------|------------------------------------|
| Loading<br>TCLL (roof)<br>Snow (Pf/Pg)<br>TCDL<br>BCLL<br>BCDL   | (psf)<br>20.0<br>13.9/20.0<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>IRC2027 | I/TPI2014  | CSI<br>TC<br>BC<br>WB<br>Matrix-MP   | 0.17<br>0.17<br>0.01   | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)   | 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: 27 lb | <b>GRIP</b><br>244/190<br>FT = 20% |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS   | 2x4 SP No.2<br>2x4 SP No.2<br>2x4 SP No.3<br>Structural wood she<br>6-0-0 oc purlins.<br>Rigid ceiling directly<br>bracing.<br>(size) 2=5-9-12,<br>7=5-9-12,<br>Max Horiz 2=61 (LC<br>Max Uplift 2=-8 (LC<br>(LC 14), 1<br>Max Grav 2=171 (LC<br>(LC 2), 7=<br>2)   | athing directly applied<br>applied or 10-0-0 oc<br>4=5-9-12, 6=5-9-12,<br>10=5-9-12<br>12), 7=61 (LC 12)<br>14), 4=-11 (LC 14), 7=<br>10=-11 (LC 14)<br>C 2), 4=171 (LC 2), 6=<br>171 (LC 2), 10=171 (LC   | 4)<br>or<br>6)<br>7)<br>8)<br>          | TCLL: ASCE<br>Plate DOL=1<br>DOL=1.15 Pl<br>Exp.; Ce=0.9<br>This truss ha<br>load of 12.0 p<br>overhangs nc<br>Gable require<br>Gable studs :<br>* This truss h<br>on the bottom<br>3-06-00 tall b<br>chord and an<br>All bearings a<br>) Provide mecl<br>bearing plate<br>11 lb uplift at | 7-16; Pr=20.0 psf<br>15); Pg=20.0 psf;<br>ate DOL=1.15); Is;<br>; Cs=1.00; Ct=1.11;<br>s been designed fr<br>psf or 2.00 times flip<br>on-concurrent with<br>secontinuous bott<br>spaced at 4-0-0 oc<br>as been designed<br>n chord in all areas<br>y 2-00-00 wide will<br>y other members.<br>are assumed to be<br>nanical connection<br>capable of withsts<br>joint 4, 8 lb uplift a | (roof LL<br>Pf=13.9<br>=1.0; Rc<br>0<br>or great<br>at roof k<br>other liv<br>om chor<br>:<br>for a liv<br>s where<br>Il fit betv<br>SP No.<br>(by oth<br>anding 8<br>at joint 2 | .: Lum DOL=<br>psf (Lum<br>pugh Cat B; F<br>er of min roof<br>pad of 13.9 ps<br>re loads.<br>d bearing.<br>e load of 20.0<br>a rectangle<br>veen the botto<br>2.<br>ers) of truss t<br>ilb uplift at joi<br>and 11 lb up | 1.15<br>ully<br>live<br>sf on<br>Dpsf<br>Dm<br>on<br>int 2,<br>lift at |                      |                             |                          |                                 |                                    |
| FORCES   | (lb) - Maximum Com<br>Tension<br>1-2=0/19, 2-3=-152/  | pression/Maximum<br>103, 3-4=-153/126,   | 11                                      | ) See Standard<br>Detail for Cor<br>consult qualif   | d Industry Piggyba<br>nection to base tr<br>ied building desigr  | ick Trus<br>russ as a<br>ner.  | s Connection<br>applicable, or   |  |                      |                             |                          |                                 |                                    |
| BOT CHORD<br>WEBS  | 4-5=0/19<br>2-6=-56/64, 4-6=-33,<br>3-6=-50/3   | /68  | LC                                      | OAD CASE(S)  | Standard   |  |  |  |                      |                             |                          | TH CA                           | Palin                              |
| <ol> <li>Unbalance<br/>this design</li> <li>Wind: ASC<br/>Vasd=103<br/>II; Exp B;<br/>Exterior(2<br/>vertical lef<br/>forces &amp; M<br/>DOL=1.6C</li> <li>Truss des<br/>only. For<br/>see Stand<br/>or consult</li> </ol> | ed roof live loads have<br>n.<br>CE 7-16; Vult=130mph<br>mph; TCDL=6.0psf; B<br>Enclosed; MWFRS (er<br>E) zone; cantilever left<br>ft and right exposed;C-<br>MWFRS for reactions s<br>) plate grip DOL=1.33<br>igned for wind loads in<br>studs exposed to wind<br>lard Industry Gable En-<br>qualified building desig | been considered for<br>(3-second gust)<br>CDL=6.0psf; h=25ft; C<br>ivelope) and C-C<br>and right exposed; ei<br>C for members and<br>hown; Lumber<br>the plane of the truss<br>( normal to the face),<br>d Details as applicable<br>gner as per ANSI/TPI | Cat.<br>nd<br>9,<br>1.                  |  |  |  |  |  |                      | William.                    |                          | SEA<br>0363                     | EER. R. Human<br>r 15,2024         |

![](_page_33_Picture_7.jpeg)

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 outlapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

| Job         | Truss | Truss Type | Qty | Ply | 14 Overhills Creek-Roof-1 BNS GRH |           |
|-------------|-------|------------|-----|-----|-----------------------------------|-----------|
| 24100066-01 | PB8   | Piggyback  | 1   | 2   | Job Reference (optional)          | 168913546 |

-0-7-7

Carter Components (Sanford, NC), Sanford, NC - 27332,

#### Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:57 ID:ahQ2g98J71YzxpxZ3?aoQkyV?gb-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

![](_page_34_Figure_3.jpeg)

6-11-1

Page: 1

![](_page_34_Figure_6.jpeg)

Scale = 1:29

| Loading<br>TCLL (roof)<br>Snow (Pf/Pg<br>TCDL<br>BCLL<br>BCDL   | (psf)<br>20.0<br>3) 13.9/20.0<br>10.0<br>0.0<br>10.0   | * C  | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code  | 2-10-0<br>1.15<br>1.15<br>NO<br>IRC20 | 21/TPI2014  | CSI<br>TC<br>BC<br>WB<br>Matrix-MP  | 0.14<br>0.05<br>0.01   | DEFL<br>Vert(LL)<br>Vert(TL)<br>Horiz(TL)  | in<br>n/a<br>n/a<br>0.00   | (loc)<br>-<br>-<br>4 | l/defl<br>n/a<br>n/a<br>n/a | L/d<br>999<br>999<br>n/a | PLATES<br>MT20<br>Weight: 55 lb | <b>GRIP</b><br>244/190<br>FT = 20%                    |  |
|---|--|--|---|---------------------------------------|---|---|--|--|--|----------------------|-----------------------------|--------------------------|---------------------------------|---|--|
| LUMBER<br>TOP CHOR<br>BOT CHOR<br>OTHERS<br>BRACING<br>TOP CHOR<br>BOT CHOR<br>REACTION   | <ul> <li>D 2x4 SP No.2</li> <li>D 2x4 SP No.2</li> <li>2x4 SP No.3</li> <li>D 2-0-0 oc purlins (<br/>(Switched from s</li> <li>D Rigid ceiling direction bracing.</li> <li>S (size) 1=7-7-<br/>6=7-7-</li> <li>Max Horiz 1=-79</li> <li>Max Uplift 1=-272</li> <li>Max Grav 1=101</li> <li>4=499</li> <li>6=246</li> <li>10=49</li> <li>(lb) - Maximum C</li> <li>Tension</li> </ul> | 5-0-0<br>heeter<br>ttly ap<br>2, 2=7<br>(LC 9)<br>(LC 2<br>(LC 1<br>(LC 1<br>(LC 3<br>(LC 1<br>(LC 3)<br>(LC 3)<br>(LC 2)<br>(LC 2)  | max.)<br>d: Spacing > 2-8-0<br>oplied or 10-0-0 oc<br>7-7-2, 4=7-7-2, 5=7<br>7-7-2, 10=7-7-2<br>)<br>29), 2=-107 (LC 13<br>4), 5=-227 (LC 130)<br>13), 10=-95 (LC 14<br>13), 10=-95 (LC 14),<br>30), 5=74 (LC 29),<br>30)<br>ession/Maximum | ).<br>7-7-2,<br>(),                   | <ul> <li>b) Unbalanced<br/>this design.</li> <li>b) Wind: ASCE<br/>Vasd=103mg<br/>II; Exp B; En<br/>Exterior(2E)<br/>Exterior(2E)<br/>Exterior(2R)<br/>zone; cantile<br/>and right exp<br/>MWFRS for<br/>grip DOL=1.3</li> <li>c) Truss design<br/>only. For stu<br/>see Standard<br/>or consult qu</li> <li>c) TCLL: ASCE<br/>Plate DOL=1</li> <li>DOL=1.15 P<br/>Exp.; Ce=0.9</li> <li>c) Gable require</li> <li>c) Gable studs</li> <li>c) * This truss h<br/>on the bottor</li> </ul> | roof live loads have<br>7-16; Vult=130mpt<br>bh; TCDL=6.0psf; E<br>closed; MWFRS (e<br>0-2-14 to 3-2-14, In<br>3-9-9 to 6-7-8, Inte<br>ver left and right ex<br>losed; C-C for mem<br>reactions shown; Li<br>33<br>ed for wind loads in<br>ds exposed to wind<br>d Industry Gable Er<br>alified building des<br>7-16; Pr=20.0 psf;<br>late DOL=1.15); Is=<br>; Cs=1.00; Ct=1.10<br>es continuous botto<br>spaced at 4-0-0 oc<br>nas been designed<br>n chord in all areas | e been of<br>h (3-sec<br>3CDL=6<br>nvelope<br>terior (1)<br>cposed<br>bers an<br>umber I<br>n the plid<br>d (norm<br>nd Deta<br>igner a:<br>(roof LL<br>Pf=13.5<br>=1.0; Rc<br>om chor<br>for a liv<br>where | considered fo<br>ond gust)<br>.0psf; h=25ft<br>.0psf; h=2 | or<br>; Cat.<br>3-9-9,<br>4<br>left<br>ate<br>ss<br>ble,<br>pl 1.<br>1.15<br>Fully<br>0psf |                      |                             |                          |                                 |   |  |
| TOP CHOR<br>BOT CHOR<br>WEBS<br>NOTES<br>1) 2-ply tru<br>Top chc<br>follows:<br>Bottom<br>follows:<br>2) All load<br>except i<br>CASE(5<br>provider<br>unless o | D 1-2=-168/248, 2-<br>4-5=-144/211<br>D 2-6=-98/97, 4-6=<br>3-6=-123/11<br>ss to be connected to<br>trds connected with 10<br>2x4 - 1 row at 0-9-0 c<br>chords connected with<br>2x4 - 1 row at 0-9-0 c<br>s are considered equa<br>f noted as front (F) or<br>s) section. Ply to ply c<br>d to distribute only loa<br>otherwise indicated.  | gethe<br>98/10<br>98/10<br>01 (0.1<br>0.<br>01 10d<br>c.<br>110d<br>c.<br>110d<br>c.<br>110d<br>c.<br>110d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c.<br>100d<br>c<br>c<br>c<br>c<br>c<br>c<br>c<br>c<br>c<br>c<br>c<br>c<br>c<br>c<br>c<br>c<br>c<br>c | 1/124, 3-4=-171/12<br>25<br>er as follows:<br>131"x3") nails as<br>(0.131"x3") nails a<br>oplied to all plies,<br>(B) face in the LO/<br>ztions have been<br>sted as (F) or (B),  | 22,<br>Is                             | <ul> <li>a) Of all be bolton</li> <li>a) Of all be chord and ar</li> <li>a) All bearings a</li> <li>b) Provide mec</li> <li>bearing plate</li> <li>b) Provide mec</li> <li>bearing plate</li> <li>c) See Standar</li> <li>c) See Standar</li> <li>c) Detail for Co</li> <li>c) See Standar</li> <li>c) Graphical pu</li> <li>or the oriente</li> <li>bottom chord</li> </ul>  | y 2-00-00 wide will<br>yy other members.<br>are assumed to be<br>hanical connection<br>capable of withsta<br>at joint 4, 272 lb up<br>7 lb uplift at joint 2 a<br>d Industry Piggybar<br>nnection to base tru<br>fied building design<br>rlin representation<br>ation of the purlin al<br>d.<br>Standard  | I fit betv<br>SP No.<br>(by oth<br>unding 1<br>plift at ju<br>and 95<br>ck Trus<br>uss as a<br>her.<br>does no<br>long the   | veen the both<br>2.<br>ers) of truss t<br>07 lb uplift at<br>oint 1, 227 lb<br>b uplift at joir<br>s Connection<br>applicable, or<br>ot depict the s<br>top and/or   | om<br>t joint<br>uplift<br>nt 4.<br>size   |                      | Manine .                    |                          | SEA<br>0363<br>SEA<br>0363      | ROUL<br>22<br>E.F.F.F.F.F.F.F.F.F.F.F.F.F.F.F.F.F.F.F | and an and and and and and and and and a |

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![](_page_34_Picture_10.jpeg)

| Job         | Truss | Truss Type  | Qty | Ply | 14 Overhills Creek-Roof-1 BNS GRH |           |
|-------------|-------|-------------|-----|-----|-----------------------------------|-----------|
| 24100066-01 | R1    | Flat Girder | 1   | 1   | Job Reference (optional)          | 168913547 |

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:57 ID:2WiGcNA?wnSGWTv\_?\_mP68yTWUf-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

![](_page_35_Figure_4.jpeg)

![](_page_35_Figure_5.jpeg)

# 3-8-0

Scale = 1:52.8

| Loading<br>TCLL (roof)<br>Snow (Pf/Pg)<br>TCDL<br>BCLL<br>BCDL  | (psf)<br>20.0<br>18.9/20.0<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  | 1-11-4<br>1.15<br>1.15<br>NO<br>IRC2021/       | /TPI2014   | CSI<br>TC<br>BC<br>WB<br>Matrix-MP   | 0.77<br>0.07<br>0.11   | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)   | in<br>0.00<br>0.00<br>0.00                | (loc)<br>3-4<br>3-4<br>3 | l/defl<br>>999<br>>999<br>n/a             | L/d<br>240<br>180<br>n/a | PLATES<br>MT20<br>Weight: 60 lb | <b>GRIP</b><br>244/190<br>FT = 20% |
|---|---|--|--|--|--|--|--|---|--------------------------|---|--------------------------|---------------------------------|------------------------------------|
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>WEBS<br>REACTIONS<br>FORCES<br>TOP CHORD<br>BOT CHORD<br>BOT CHORD<br>WEBS  | 2x8 SP 2400F 2.0E<br>2x10 SP 2400F 2.0E<br>2x4 SP No.3<br>2-0-0 oc purlins: 1-2.<br>Rigid ceiling directly<br>bracing.<br>1 Row at midpt<br>(size) 3= Mecha<br>Max Horiz 4=-218 (Li<br>Max Grav 3=1195 (Li<br>(b) - Maximum Com<br>Tension<br>1-4=-868/197, 1-2=-8<br>3-4=-196/173<br>1-3=-287/287  | , except end verticals<br>applied or 10-0-0 oc<br>1-4, 2-3, 1-3<br>nical, 4= Mechanical<br>C 5)<br>C 6), 4=-236 (LC 5)<br>C 20), 4=1163 (LC 2<br>pression/Maximum<br>37/64, 2-3=-751/0   | 7)<br>8)<br>3.<br>9)<br>10)<br><b>LO</b><br>1) | Graphical pu<br>or the orienta<br>bottom chord<br>Use Simpsor<br>Truss, Single<br>left end to co<br>chord.<br>Fill all nail ho<br>In the LOAD<br>of the truss a<br><b>AD CASE(S)</b><br>Dead + Snc<br>Increase=1.<br>Uniform Loz<br>Vert: 1-2=<br>Concentrate<br>Vert: 5=- | lin representation of<br>tion of the purlin al<br>Strong-Tie LUS26<br>Ply Girder) or equ<br>nnect truss(es) to b<br>les where hanger is<br>CASE(S) section, I<br>re noted as front (F<br>Standard<br>w (balanced): Lum<br>15<br>ads (lb/ft)<br>=-56, 3-4=-19<br>d Loads (lb)<br>1258, 6=-388 (B) | does no<br>ong the<br>ivalent<br>oack fac<br>s in cor<br>oads a<br>c) or ba<br>ber Inc | at depict the s<br>e top and/or<br>at 1-9-12 fron<br>se of bottom<br>attact with lumi<br>oplied to the f<br>ck (B).<br>rease=1.15, F | ize<br>d<br>n the<br>ber.<br>ace<br>Plate |                          |   |                          |                                 |                                    |
| NOTES<br>1) Wind: ASC<br>Vasd=103<br>II; Exp B; I<br>and right e<br>Lumber DD<br>2) TCLL: ASC<br>Plate DOL<br>DOL=1.15<br>Exp.; Ce=I<br>3) Provide acd<br>4) * This trus<br>on the bot<br>3-06-00 ta<br>chord and | CE 7-16; Vult=130mph<br>mph; TCDL=6.0psf; BC<br>Enclosed; MWFRS (en<br>exposed; end vertical I<br>obl=1.60 plate grip DO<br>CE 7-16; Pr=20.0 psf; P<br>Plate DOL=1.10; Js='<br>Plate DOL=0.15; Js='<br>op; CS=1.00; Ct=1.10,<br>dequate drainage to prr<br>s has been designed for<br>tom chord in all areas v<br>II by 2-00-00 wide will i<br>pay other members. | (3-second gust)<br>CDL=6.0psf; h=25ft; C<br>velope); cantilever lei<br>eft and right exposed<br>L=1.33<br>roof LL: Lum DOL=1.<br>f=18.9 psf (Lum<br>1.0; Rough Cat B; Ful<br>Lu=50-0-0<br>event water ponding.<br>or a live load of 20.0p<br>where a rectangle<br>fit between the botton | Cat.<br>ft<br>;<br>15<br>lly<br>sf             |  |  |  |  |   |                          | An | KAN                      | SEAI                            | ROLA MUTULI                        |

- Refer to girder(s) for truss to truss connections. 5)
- Provide mechanical connection (by others) of truss to 6) bearing plate capable of withstanding 236 lb uplift at joint 4 and 237 lb uplift at joint 3.

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![](_page_35_Picture_12.jpeg)

| Job         | Truss | Truss Type | Qty | Ply | 14 Overhills Creek-Roof-1 BNS GRH |           |
|-------------|-------|------------|-----|-----|-----------------------------------|-----------|
| 24100066-01 | VL1   | Valley     | 1   | 1   | Job Reference (optional)          | 168913548 |

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:57 ID:1FpsTdwzw?qlKHj9eHG6qRyV?iA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

![](_page_36_Figure_3.jpeg)

#### Scale = 1:57.7

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

| Loading<br>TCLL (roof)<br>Snow (Pf/Pg)<br>TCDL<br>BCLL<br>BCDL                  | (psf)<br>20.0<br>13.9/20.0<br>10.0<br>0.0*<br>10.0   | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code   | 1-11-4<br>1.15<br>1.15<br>YES<br>IRC2021   | /TPI2014  | CSI<br>TC<br>BC<br>WB<br>Matrix-MSH  | 0.05<br>0.13<br>0.14   | <b>DEFL</b><br>Vert(LL)<br>Vert(TL)<br>Horiz(TL)   | in<br>n/a<br>n/a<br>0.01                         | (loc)<br>-<br>-<br>11     | 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: 110 lb                   | <b>GRIP</b><br>244/190<br>FT = 20% |  |
|---|--|--|--|---|--|--|--|--|---------------------------|---------------------------------|---------------------------|--|------------------------------------|--|
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD | 2x4 SP No.2<br>2x4 SP No.2<br>2x4 SP No.3<br>Structural wood she<br>6-0-0 oc purlins.<br>Rigid ceiling directly<br>bracing.<br>(size) 1=18-7-2   | athing directly applie<br>applied or 10-0-0 oc<br>11=18-7-2 12=18-7  | WE<br>NC<br>d or 1)<br>-2  | TES 5<br>TES Unbalanced i<br>this design.<br>Wind: ASCE<br>Vasd=103mp<br>II; Exp B; End   | -17=-157/113, 4-1<br>-19=-160/152, 2-2<br>-16=-157/113, 8-1<br>-13=-160/152, 10-<br>roof live loads have<br>7-16; Vult=130mp<br>h; TCDL=6.0psf; e<br>closed; MWFRS (e  | 8=-155/<br>20=-125/<br>4=-155/<br>12=-124<br>e been o<br>h (3-sec<br>3CDL=6<br>envelope  | 141,<br>96,<br>141,<br>4/94<br>considered fo<br>cond gust)<br>.0psf; h=25ft;<br>e) and C-C Co  | r<br>; Cat.<br>orner                             | 11) Bev<br>surf<br>LOAD ( | eled pla<br>ace with<br>CASE(S) | te or si<br>truss<br>Star | him required to pı<br>chord at joint(s) 1<br>ndard | ovide full bearing<br>, 11.        |  |
|   | (JJZC) 13-18-7-2<br>17=18-7-2<br>20=18-7-2<br>20=18-7-2<br>20=18-7-2<br>Max Horiz 1=165 (LC<br>Max Uplift 1=-52 (LC<br>13=-59 (L<br>16=-25 (L<br>18=-63 (L<br>12=161 (L<br>14=162 (L<br>17=300 (L<br>19=212 (L                       | 1, 14–18-7-2, 16=18<br>2, 14–18-7-2, 16=18<br>2, 18=18-7-2, 19=18-<br>2<br>2 10)<br>3 11), 11=-37 (LC 12)<br>C 14), 14=-63 (LC 12)<br>C 14), 17=-28 (LC 12)<br>C 14), 17=-28 (LC 12)<br>C 13), 19=-57 (LC 12)<br>C 13), 11=127 (LC 14)<br>C 29), 13=214 (LC 2)<br>C 28), 18=160 (LC 2)<br>C 28), 18=160 (LC 2)<br>C 28), 20=181 (LC 2) | 2,<br>7-2,<br>7-2,<br>4),<br>3),<br>3)<br>4),<br>29),<br>29),<br>4)<br>28),<br>28) | (3E) 0-0-0 to<br>(3R) 9-3-9 to<br>zone; cantile<br>and right exp<br>MWFRS for r<br>grip DOL=1.3<br>Truss design<br>only. For stu<br>see Standarc<br>or consult qu<br>TCLL: ASCE<br>Plate DOL=1<br>DOL=1.15 Pl                                     | 3-3-9, Exterior(2N<br>12-3-9, Exterior(2N<br>rer left and right ex<br>osed;C-C for mem<br>eactions shown; L<br>a<br>ed for wind loads i<br>ds exposed to win<br>I Industry Gable Er<br>alified building des<br>7-16; Pr=20.0 psf;<br>15); Pg=20.0 psf;<br>ate DOL=1.15); Is-                                       | ) 3-3-9 1<br>N) 12-3-<br>kposed<br>bers an<br>umber I<br>n the pla<br>d (norm<br>nd Deta<br>signer as<br>(roof LL<br>Pf=13.9<br>=1.0; Ro             | o 9-3-9, Corr<br>9 to 18-2-14<br>end vertical<br>d forces &<br>DOL=1.60 pla<br>ane of the tru<br>al to the face<br>ils as applical<br>s per ANSI/TF<br>: Lum DOL=<br>0 psf (Lum<br>pugh Cat B; F | ner<br>left<br>ss<br>),<br>ble,<br>Pl 1.<br>1.15 |                           |                                 |                           | WITH CA  | Bolta                              |  |
| FORCES<br>TOP CHORD<br>BOT CHORD  | (lb) - Maximum Com<br>Tension<br>1-2=-370/154, 2-3=-<br>4-5=-123/35, 5-6=-1<br>7-8=-118/28, 8-9=-1<br>10-11=-368/154<br>1-20=-111/285, 19-2<br>18-19=-111/285, 19-2<br>18-19=-111/285, 19-2<br>13-14=-111/285, 12-<br>11-12=-111/285 | pression/Maximum<br>297/123, 3-4=-173/6<br>21/55, 6-7=-121/55,<br>74/65, 9-10=-297/12<br>:0=-111/285,<br>18=-111/285,<br>16=-111/285,<br>13=-111/285,  | 5)<br>5, 6)<br>3, 8)<br>9)<br>10)  | Exp.; Ce=0.9<br>All plates are<br>Gable require<br>Gable studs s<br>* This truss h<br>on the botton<br>3-06-00 tall b<br>chord and an<br>All bearings a<br>Provide mech<br>bearing plate<br>1, 37 lb uplift<br>at joint 18, 57<br>63 lb uplift at | ; Cs=1.00; Ct=1.10<br>2x4 MT20 unless<br>es continuous botto<br>spaced at 2-0-0 oc<br>as been designed<br>n chord in all areas<br>y 2-00-00 wide wil<br>y other members,<br>are assumed to be<br>nanical connection<br>capable of withsta<br>at joint 11, 28 lb u<br>' lb uplift at joint 15<br>joint 14 and 59 lb | otherwi<br>orn chor<br>c<br>for a liv<br>s where<br>l fit betw<br>with BC<br>SP No.<br>(by oth<br>anding 5<br>plift at jo<br>0, 25 lb o<br>uplift at | se indicated.<br>d bearing.<br>e load of 20.0<br>a rectangle<br>veen the botto<br>DL = 10.0psf<br>2.<br>ers) of truss t<br>2 lb uplift at joint 1<br>joint 13.                                   | Opsf<br>om<br>o<br>oint<br>uplift<br>16,         |                           | Winning                         |                           | SEA<br>03632                                       |                                    |  |

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 **ANSUTP11 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.sbcacomponents.com)

**TRENCO** A MiTek Affiliate

> 818 Soundside Road Edenton, NC 27932

October 15,2024

| Job         | Truss | Truss Type | Qty | Ply | 14 Overhills Creek-Roof-1 BNS GRH |           |
|-------------|-------|------------|-----|-----|-----------------------------------|-----------|
| 24100066-01 | VL2   | Valley     | 1   | 1   | Job Reference (optional)          | 168913549 |

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:57 ID:hZYO\_j3U5hLbm7dTLpTwJzyV?i\_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

![](_page_37_Figure_4.jpeg)

17-3-2

Scale = 1:57.8

| Loading<br>TCLL (roof)<br>Snow (Pf/Pg)<br>TCDL<br>BCLL<br>BCDL   | (psf)<br>20.0<br>13.9/20.0<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>IRC202 <sup>-</sup>          | 1/TPI2014   | CSI<br>TC<br>BC<br>WB<br>Matrix-MSH  | 0.31<br>0.19<br>0.18   | DEFL<br>Vert(LL)<br>Vert(TL)<br>Horiz(TL)   | in<br>n/a<br>n/a<br>0.00   | (loc)<br>-<br>-<br>9 | 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: 85 lb | <b>GRIP</b><br>244/190<br>FT = 20% |                       |
|--|--|---|--|---|--|--|---|--|----------------------|-----------------------------|--------------------------|---------------------------------|------------------------------------|-----------------------|
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>REACTIONS   | 2x4 SP No.2<br>2x4 SP No.2<br>2x4 SP No.3<br>Structural wood shea<br>10-0-0 cc purlins.<br>Rigid ceiling directly<br>bracing.<br>1 Row at midpt<br>(size) 1=17-3-2,<br>8=17-3-2,<br>Max Horiz 1=158 (LC<br>9=-137 (LL<br>Max Grav 1=100 (LC<br>(LC 29), 8<br>28), 14=1 | athing directly applie<br>applied or 6-0-0 oc<br>3-8<br>5=17-3-2, 6=17-3-2,<br>9=17-3-2, 14=17-3-2<br>2 10)<br>5 9), 6=-132 (LC 14),<br>C 13)<br>C 12), 5=1 (LC 29), 6<br>i=682 (LC 28), 9=538<br>(LC 29) | 3)<br>4)<br>d or<br>5)<br>6)<br>7)<br>2<br>8)<br>9)<br>3 (LC | Truss design<br>only. For stu<br>see Standarr<br>or consult qu<br>TCLL: ASCE<br>Plate DOL=1<br>DOL=1.15 Pl<br>Exp.; Ce=0.5<br>Gable requiri<br>Gable studs<br>* This truss F<br>on the bottor<br>3-06-00 tall b<br>chord and ar<br>All bearings a<br>Provide mec<br>bearing plate<br>1, 137 lb upli | ed for wind loads in<br>ds exposed to wind<br>d Industry Gable Er<br>alified building des<br>7-16; Pr=20.0 psf;<br>ate DOL=1.15); Is=<br>; Cs=1.00; Ct=1.10<br>es continuous botto<br>spaced at 4-0-0 oc<br>cas been designed<br>n chord in all areas<br>by 2-00-00 wide will<br>yo other members, v<br>are assumed to be<br>hanical connection<br>capable of withsta<br>ft at joint 9 and 132<br>Standard | the platic (norm<br>ind Detailing of the platic (norm<br>ind Detailing of the platic (norm<br>platic) (norm of the platic)<br>point of the platic (norm<br>for a liv<br>where<br>fit between with BC<br>SP No.<br>(by oth-<br>nding 8<br>the platic (norm) | ane of the tru<br>al to the face<br>ils as applica<br>s per ANSI/TI<br>per ANSI/TI<br>per ANSI/TI<br>per ANSI/TI<br>per ANSI/TI<br>per ANSI/TI<br>d bearing.<br>e load of 20.1<br>a rectangle<br>veen the both<br>DL = 10.0psi<br>2.<br>ers) of truss to<br>2 lb uplift at j<br>t at joint 6. | ss<br>),<br>ble,<br>Pl 1.<br>1.15<br>Fully<br>Opsf<br>om<br>f.<br>to<br>oint |                      |                             |                          |                                 |                                    |                       |
| FORCES   | (lb) - Maximum Com<br>Tension<br>1-2=-127/393, 2-3=-;  | pression/Maximum<br>34/315, 3-4=-34/299   |  | (-)   |  |  |   |  |                      |                             |                          |                                 |                                    |                       |
|  | 4-5=-310/320   |   | ,  |   |  |  |   |  |                      |                             |                          |                                 |                                    |                       |
| BOT CHORD  | 1-9=-188/130, 8-9=-<br>5-6=-188/130  | 188/130, 6-8=-188/1   | 30,  |   |  |  |   |  |                      |                             |                          | WHY CA                          | Dalla                              |                       |
| WEBS   | 3-8=-499/0, 2-9=-37  | 7/330, 4-6=-376/330   |  |   |  |  |   |  |                      |                             | S.                       | RTHOM                           | 29/14                              |                       |
| NOTES  |  |   |  |   |  |  |   |  |                      |                             | 5                        | O'.:FESS                        | 10 NON                             | 12                    |
| <ol> <li>Unbalance<br/>this design</li> </ol>  | ed roof live loads have  | been considered for   |  |   |  |  |   |  |                      | 4                           |                          | .2                              | - V                                | 4                     |
| <ol> <li>Wind: ASC<br/>Vasd=103<br/>II; Exp B; I<br/>(3E) 0-0-4<br/>(3R) 8-7-1<br/>zone; cant<br/>and right e<br/>MWFRS for<br/>grip DOL=</li> </ol> | CE 7-16; Vult=130mph<br>mph; TCDL=6.0psf; BC<br>Enclosed; MWFRS (en<br>to 3-0-4, Exterior(2N)<br>3 to 11-7-13, Exterior(2)<br>3 to 11-7-13, Exterior(2)<br>itilever left and right exp<br>exposed;C-C for memb<br>or reactions shown; Lu<br>1.33                       | (3-second gust)<br>CDL=6.0psf; h=25ft;<br>velope) and C-C Coi<br>3-0-4 to 8-7-13, Corr<br>2N) 11-7-13 to 16-11<br>bosed ; end vertical lu<br>vers and forces &<br>mber DOL=1.60 plat                      | Cat.<br>rner<br>her<br>l-6<br>eft<br>re                      |   |  |  |   |  |                      | THUNK                       |                          | SEA<br>0363                     | L<br>22                            | MILLION DE LA COMPANY |

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 **ANSUTP11 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.sbcacomponents.com)

TRENCO A MITEK Affiliate

818 Soundside Road Edenton, NC 27932

October 15,2024

| Job         | Truss | Truss Type | Qty | Ply | 14 Overhills Creek-Roof-1 BNS GRH |           |
|-------------|-------|------------|-----|-----|-----------------------------------|-----------|
| 24100066-01 | VL3   | Valley     | 1   | 1   | Job Reference (optional)          | l68913550 |

7-11-9

7-11-9

Carter Components (Sanford, NC), Sanford, NC - 27332

Scale = 1:51.9 Loading

TCLL (roof)

TCDL

BCLL

BCDL

LUMBER

OTHERS

BRACING

TOP CHORD

BOT CHORD

TOP CHORD

BOT CHORD

FORCES

WEBS

NOTES

1)

2)

TOP CHORD

BOT CHORD

this design.

REACTIONS (size)

Snow (Pf/Pg)

7-8-2 7-11-13

Spacing

Code

Structural wood sheathing directly applied or

7=15-11-2, 8=15-11-2

1=15-11-2, 5=15-11-2, 6=15-11-2,

1=139 (LC 29), 5=114 (LC 28),

6=498 (LC 29), 7=444 (LC 28),

Rigid ceiling directly applied or 6-0-0 oc

1=-146 (LC 9)

8=-121 (LC 13)

8=501 (LC 28)

(Ib) - Maximum Compression/Maximum

1-2=-160/198, 2-3=-81/134, 3-4=-81/134,

3-7=-253/0. 2-8=-353/319. 4-6=-353/319

Unbalanced roof live loads have been considered for

Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.

II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) 0-0-4 to 3-0-4, Exterior(2N) 3-0-4 to 7-11-13,

Corner(3R) 7-11-13 to 10-11-13, Exterior(2N) 10-11-13 to 15-11-6 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber

Wind: ASCE 7-16; Vult=130mph (3-second gust)

1-8=-105/195, 7-8=-105/195, 6-7=-105/195,

Max Uplift 1=-24 (LC 9), 6=-118 (LC 14),

Plate Grip DOL

Rep Stress Incr

Lumber DOL

(psf)

20.0

10.0

0.0

10.0

13 9/20 0

2x4 SP No.2

2x4 SP No.2

2x4 SP No.3

bracing.

Max Horiz

Max Grav

Tension

DOL=1.60 plate grip DOL=1.33

4-5=-153/169

5-6=-105/195

10-0-0 oc purlins.

7-0-0

12 12∟

2-0-0

1.15

1 15

YES

4)

5)

6)

7)

8)

3x5 🍫

Run: 8,73 S Sep 25 2024 Print: 8,730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:57 ID:\_vT2S79tRqDc6CgpGn5Z5SyV?ht-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

15-7-11

7-8-2

15-11-2 || 0-3-7

4x5= 3 2x4 2x4 I 2 4 13 14 8 7 6 2x4 II 2x4 II 2x4 u 3x5 💊 15-11-2 CSI DEFL l/defl L/d PLATES GRIP in (loc) TC 0.23 Vert(LL) n/a 999 MT20 244/190 n/a BC 0.16 Vert(TL) n/a n/a 999 WB 0.28 Horiz(TL) 0.00 5 n/a n/a IRC2021/TPI2014 Matrix-MSH Weight: 77 lb FT = 20%3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10 Gable requires continuous bottom chord bearing Gable studs spaced at 4-0-0 oc. \* 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. All bearings are assumed to be SP No.2 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 1, 121 Ib uplift at joint 8 and 118 Ib uplift at joint 6.

LOAD CASE(S) Standard

![](_page_38_Figure_5.jpeg)

Page: 1

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| Job         | Truss | Truss Type | Qty | Ply | 14 Overhills Creek-Roof-1 BNS GRH |           |  |  |  |
|-------------|-------|------------|-----|-----|-----------------------------------|-----------|--|--|--|
| 24100066-01 | VL4   | Valley     | 1   | 1   | Job Reference (optional)          | 168913551 |  |  |  |

Run: 8,73 S Sep 25 2024 Print: 8,730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:57 ID:91dCmtHnsDc2wu?wPbo92myV?hi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

GRIP

244/190

FT = 20%

![](_page_39_Figure_4.jpeg)

BOT CHORD 2x4 SP No.3 OTHERS BRACING TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. **REACTIONS** (size) 1=14-7-2, 5=14-7-2, 6=14-7-2, 7=14-7-2, 8=14-7-2 Max Horiz 1=-134 (LC 9)

Scale = 1:49 Loading

TCLL (roof)

TCDL

BCLL

BCDL

LUMBER

TOP CHORD

Snow (Pf/Pg)

- Max Uplift 1=-25 (LC 9), 6=-108 (LC 14), 8=-110 (LC 13) Max Grav 1=136 (LC 29), 5=113 (LC 28), 6=444 (LC 29), 7=398 (LC 28), 8=448 (LC 28) FORCES (Ib) - Maximum Compression/Maximum Tension
- TOP CHORD 1-2=-152/143, 2-3=-126/147, 3-4=-126/148, 4-5=-136/114 BOT CHORD 1-8=-73/168, 7-8=-73/168, 6-7=-73/168,
- 5-6=-73/168 WEBS 3-7=-205/0, 2-8=-334/322, 4-6=-334/322 NOTES
- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) 2) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) 0-0-4 to 3-3-13, Exterior(2N) 3-3-13 to 7-3-13, Corner(3R) 7-3-13 to 10-3-13, Exterior(2N) 10-3-13 to 14-7-6 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33

- DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 5) Gable requires continuous bottom chord bearing
- 6) Gable studs spaced at 4-0-0 oc.
- 7) \* 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. All bearings are assumed to be SP No.2 8)
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 1, 110 lb uplift at joint 8 and 108 lb uplift at joint 6. LOAD CASE(S) Standard
- O ann ann an SEAL 036322 G mmm October 15,2024

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.sbcacomponents.com)

![](_page_39_Picture_19.jpeg)

Edenton, NC 27932

| Job         | Truss | Truss Type | Qty | Ply | 14 Overhills Creek-Roof-1 BNS GRH |           |  |  |  |
|-------------|-------|------------|-----|-----|-----------------------------------|-----------|--|--|--|
| 24100066-01 | VL5   | Valley     | 1   | 1   | Job Reference (optional)          | 168913552 |  |  |  |

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:57 ID:1otjcFKIvR6UPWJheQt5CcyV?he-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

![](_page_40_Figure_3.jpeg)

11-3-3

![](_page_40_Figure_4.jpeg)

| Scale = | 1:44.6 |
|---------|--------|
|---------|--------|

| Loading<br>TCLL (roof)<br>Snow (Pf/Pg)<br>TCDL<br>BCLL<br>BCDL                               | (psf)<br>20.0<br>13.9/20.0<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>IRC2021                  | /TPI2014   | CSI<br>TC<br>BC<br>WB<br>Matrix-MSH  | 0.20<br>0.09<br>0.12   | <b>DEFL</b><br>Vert(LL)<br>Vert(TL)<br>Horiz(TL)   | in<br>n/a<br>n/a<br>0.00                                  | (loc)<br>-<br>-<br>5 | l/defl<br>n/a<br>n/a<br>n/a | L/d<br>999<br>999<br>n/a | PLATES<br>MT20<br>Weight: 50 lb | <b>GRIP</b><br>244/190<br>FT = 20% |
|--|--|--|--|--|--|--|--|---|----------------------|-----------------------------|--------------------------|---------------------------------|------------------------------------|
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS | 2x4 SP No.2<br>2x4 SP No.2<br>2x4 SP No.3<br>Structural wood she<br>6-0-0 oc purlins.<br>Rigid ceiling directly<br>bracing.<br>(size) 1=11-3-3,<br>7=11-3-3,<br>Max Horiz 1=102 (LC<br>Max Uplift 1=-45 (LC<br>6=-91 (LC<br>Max Grav 1=82 (LC<br>(LC 29), 7<br>28) | athing directly applied of<br>applied or 10-0-0 oc<br>, 5=11-3-3, 6=11-3-3,<br>, 8=11-3-3<br>C 10)<br>C 11), 5=-19 (LC 12),<br>C 14), 8=-95 (LC 13)<br>29), 5=63 (LC 28), 6=3<br>7=215 (LC 2), 8=325 (L) | 3)<br>4)<br>or<br>5)<br>6)<br>7)<br>320<br>8)<br>C<br>9) | Truss design<br>only. For stu<br>see Standard<br>or consult qu<br>TCLL: ASCE<br>Plate DOL=1<br>DOL=1.15 P<br>Exp.; Ce=0.9<br>Gable requirn<br>Gable studs<br>* This truss h<br>on the bottor<br>3-06-00 tall b<br>chord and ar<br>All bearings<br>Provide mec<br>bearing plate | ed for wind loads<br>uds exposed to wi<br>d Industry Gable I<br>ialified building of<br>7-16; Pr=20.0 ps<br>1.15); Pg=20.0 ps<br>late DOL=1.15); I:<br>9; Cs=1.00; Ct=1.<br>9; Cs=1.00; Ct=1.00; Ct=1.<br>9; Cs=1.00; Ct=1.00; Ct=1. | in the plind<br>(norm<br>End Deta<br>signer as<br>f (roof LL<br>; Pf=13.5<br>s=1.0; Ro<br>10<br>tom chor<br>c.<br>d for a liv<br>as where<br>ill fit betv<br>e SP No.<br>n (by oth<br>tanding 4<br>plift at io | ane of the trus<br>al to the face)<br>ils as applicat<br>s per ANSI/TF<br>D psf (Lum<br>Dugh Cat B; Fi<br>d bearing.<br>e load of 20.0<br>a rectangle<br>veen the botto<br>2.<br>ers) of truss to<br>5 lb uplift at jo<br>8 and 9 j lh | ss<br>,<br>le,<br>I 1.<br>.15<br>ully<br>psf<br>m<br>ount |                      |                             |                          |                                 |                                    |
| TOP CHORD  | (lb) - Maximum Com<br>Tension<br>1-2=-177/103. 2-3=-   | npression/Maximum<br>185/154. 3-4=-185/153   | B. LO  | uplift at joint<br>AD CASE(S)  | 6.<br>Standard   |  |  |   |                      |                             |                          |                                 |                                    |
| BOT CHORD  | 4-5=-169/75<br>1-8=-35/108, 7-8=-2<br>5-6=-35/108  | 8/108, 6-7=-28/108,  | - ,  |  |  |  |  |   |                      |                             |                          |                                 | Um.                                |
| WEBS   | 3-7=-128/0, 2-8=-35  | 1/396, 4-6=-351/396  |  |  |  |  |  |   |                      |                             |                          | WITH CA                         | ROUL                               |
| <ul> <li>NOTES</li> <li>1) Unbalance<br/>this design</li> <li>2) Wind: ASC</li> </ul>        | ed roof live loads have<br>n.<br>CE 7-16; Vult=130mph  | been considered for<br>(3-second gust)   |  |  |  |  |  |   |                      | 4                           | - A'                     | ORIEESE                         | Phil -                             |

Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) 0-0-4 to 3-0-4, Exterior(2N) 3-0-4 to 5-7-14, Corner (3R) 5-7-14 to 8-7-14, Exterior(2N) 8-7-14 to 11-3-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33

and a second The annual second SEAL 036322 GI A. GIL October 15,2024

Page: 1

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BC2E Building Component Schut beformation, available from the Structure Building Component Advanciation (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

| Job         | Truss | Truss Type | Qty | Ply | 14 Overhills Creek-Roof-1 BNS GRH |           |  |  |  |
|-------------|-------|------------|-----|-----|-----------------------------------|-----------|--|--|--|
| 24100066-01 | VL6   | Valley     | 1   | 1   | Job Reference (optional)          | 168913553 |  |  |  |

3-11-14

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:58 ID:OlgcfyOQk\_ImVHCfR\_SGvgyV?hZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

![](_page_41_Figure_3.jpeg)

| ~   |   |     | ~~  |
|-----|---|-----|-----|
| Sca | e | = 1 | :33 |

|   |   |  | _   |   |   |  |  |                                 |                      |   |                          |                                    |                                    |
|---|---|--|---|---|---|--|--|---------------------------------|----------------------|---|--------------------------|------------------------------------|------------------------------------|
| Loading<br>TCLL (roof)<br>Snow (Pf/Pg)<br>TCDL<br>BCLL<br>BCDL  | (psf)<br>20.0<br>13.9/20.0<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>IRC202          | 1/TPI2014   | CSI<br>TC<br>BC<br>WB<br>Matrix-MP  | 0.23<br>0.28<br>0.13   | <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: 32 lb    | <b>GRIP</b><br>244/190<br>FT = 20% |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS  | 2x4 SP No.2<br>2x4 SP No.2<br>2x4 SP No.3<br>Structural wood she<br>7-11-3 oc purlins.<br>Rigid ceiling directly<br>bracing.<br>(size) 1=7-11-3,<br>Max Horiz 1=-71 (LC<br>Max Uplift 1=-13 (LC<br>4=-37 (LC<br>Max Grav 1=66 (LC<br>(LC 2)   | eathing directly applied<br>applied or 6-0-0 oc<br>3=7-11-3, 4=7-11-3<br>9)<br>35), 3=-13 (LC 34),<br>34), 3=66 (LC 35), 4:  | 4)<br>5)<br>dor 6)<br>7)<br>8)<br>9)<br>=563 LC | TCLL: ASCE<br>Plate DOL=1<br>DOL=1.15 Pl<br>Exp.; Ce=0.9<br>Gable require<br>Gable studs.<br>* This truss h<br>on the botton<br>3-06-00 tall b<br>chord and ar<br>All bearing sa<br>Provide mech<br>bearing plate<br>1, 13 lb uplift<br>DAD CASE(S) | 7-16; Pr=20.0 ps<br>15); Pg=20.0 ps<br>ate DOL=1.15); ls<br>; Cs=1.00; Ct=1.1<br>es continuous bét<br>spaced at 4-0-0 o<br>ias been designer<br>n chord in all area<br>y 2-00-00 wide w<br>y other members<br>are assumed to be<br>hanical connection<br>capable of withsl<br>at joint 3 and 37<br>Standard | f (roof LL<br>; Pf=13.5<br>s=1.0; Rc<br>0<br>tom chor<br>c.<br>d for a liv<br>is where<br>d swhere<br>ill fitt betw<br>e SP No.<br>n (by oth<br>canding 1<br>lb uplift a | :: Lum DOL=1<br>p psf (Lum<br>pugh Cat B; Fi<br>d bearing.<br>e load of 20.0<br>a rectangle<br>veen the botto<br>2.<br>ers) of truss to<br>3 lb uplift at jo<br>t joint 4. | .15<br>ully<br>psf<br>m<br>oint |                      |   |                          |                                    |                                    |
| FORCES<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>NOTES<br>1) Unbalance<br>this design<br>2) Wind: ASG<br>Vasd=102<br>II; Exp B;<br>(3E) 0-0-4<br>Corner(3F<br>Zone; can<br>and right d<br>MWFRS f<br>grip DOL= | (lb) - Maximum Com<br>Tension<br>1-2=-179/247, 2-3=-<br>1-4=-195/268, 3-4=-<br>2-4=-500/354<br>ed roof live loads have<br>n.<br>CE 7-16; Vult=130mph<br>Bmph; TCDL=6.0psf; B<br>Enclosed; MWFRS (er<br>to 3-0-4, Exterior(2N)<br>R) 3-11-14 to 7-3-4, Ex<br>tilever left and right ex<br>exposed;C-C for memb<br>for reactions shown; Lu<br>=1.33 | hpression/Maximum<br>167/247<br>195/268<br>been considered for<br>(3-second gust)<br>CDL=6.0psf; h=25ft; 6<br>rvelope) and C-C Con<br>3-0-4 to 3-11-14,<br>terior(2N) 7-3-4 to 7-1<br>posed; end vertical le<br>poers and forces &<br>imber DOL=1.60 plate | Cat.<br>mer<br>11-7<br>sft<br>e                 |   |   |  |  |                                 |                      | Children of the second s | T                        | NITH CA<br>OR DEESS<br>SEA<br>0363 |                                    |

 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.

![](_page_41_Figure_7.jpeg)

Page: 1

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A MiTek Affi 818 Soundside Road Edenton, NC 27932

| Job         | Truss | Truss Type | Qty | Ply | 14 Overhills Creek-Roof-1 BNS GRH |           |  |  |  |  |
|-------------|-------|------------|-----|-----|-----------------------------------|-----------|--|--|--|--|
| 24100066-01 | VL7   | Valley     | 1   | 1   | Job Reference (optional)          | 168913554 |  |  |  |  |

2-3-10

2-3-10

Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:58 ID:Dv1tw0TBJqVwDCfonEZg8xyV?hT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

4-3-12

2-0-3

Page: 1

![](_page_42_Figure_5.jpeg)

4-7-3

Scale = 1:27.1

|  |   |  |  |  |   |  |                            |                      |                             |                          |                |                                  | _ |
|--|---|--|--|--|---|--|----------------------------|----------------------|-----------------------------|--------------------------|----------------|----------------------------------|---|
| Loading<br>TCLL (roof)<br>Snow (Pf/Pg)<br>TCDL<br>BCLL<br>PCDL   | (psf)<br>20.0<br>13.9/20.0<br>10.0<br>0.0*  | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code   | 2-0-0<br>1.15<br>1.15<br>YES<br>IRC2021/TPI2014  | CSI<br>TC<br>BC<br>WB<br>Matrix-MP   | 0.07<br>0.10<br>0.04  | DEFL<br>Vert(LL)<br>Vert(TL)<br>Horiz(TL)  | in<br>n/a<br>n/a<br>0.00   | (loc)<br>-<br>-<br>3 | l/defl<br>n/a<br>n/a<br>n/a | L/d<br>999<br>999<br>n/a | PLATES<br>MT20 | <b>GRIP</b><br>244/190           | _ |
| BCDL   | 10.0  |  |  |  |   |  |                            |                      |                             |                          | Weight: 18 lb  | FI = 20%                         | _ |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS   | 2x4 SP No.2<br>2x4 SP No.2<br>2x4 SP No.3<br>Structural wood she<br>4-7-3 oc purlins.<br>Rigid ceiling directly<br>bracing.<br>(size) 1=4-7-3, 3<br>Max Horiz 1=40 (LC<br>Max Uplift 4=5 (LC<br>Max Uplift 4=5 (LC  | athing directly applie<br>applied or 6-0-0 oc<br>3=4-7-3, 4=4-7-3<br>10)<br>13)<br>24) 2=61 (L C 25) 4   | <ul> <li>6) Gable stu</li> <li>7) * This tru<br/>on the bo<br/>3-06-00 t</li> <li>chord an</li> <li>8) All bearing p</li> <li>LOAD CASE</li> </ul> | ds spaced at 4-0-0 o<br>ss has been designe-<br>ttom chord in all area<br>all by 2-00-00 wide w<br>d any other members<br>gs are assumed to b<br>nechanical connectio<br>late capable of withs<br>(S) Standard | nc.<br>d for a liv<br>as where<br>vill fit betv<br>s.<br>e SP No.<br>n (by oth<br>tanding 5 | e load of 20.0<br>a rectangle<br>veen the botto<br>2 .<br>ers) of truss t<br>i lb uplift at jo | Opsf<br>om<br>to<br>int 4. |                      |                             |                          |                |                                  |   |
|  | Max Grav 1=61 (LC<br>(I C 2)  | 34), 3=61 (LC 35), 4   | 1=265  |  |   |  |                            |                      |                             |                          |                |                                  |   |
| FORCES<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>NOTES<br>1) Unbalance  | (lb) - Maximum Com<br>Tension<br>1-2=-51/76, 2-3=-51<br>1-4=-73/132, 3-4=-7<br>2-4=-190/143<br>ed roof live loads have  | pression/Maximum<br>/76<br>3/132<br>been considered for  | r  |  |   |  |                            |                      |                             |                          |                |                                  |   |
| <ul> <li>this design</li> <li>Wind: ASC</li> <li>Vasd=103</li> <li>II; Exp B; I</li> <li>(3E) zone;</li> <li>left and rig</li> <li>MWFRS fr</li> <li>grip DOL=</li> <li>Truss desi</li> <li>only. For</li> <li>see Stand</li> <li>or consult</li> <li>TCLL: ASC</li> <li>Plate DOL</li> <li>DOL=1.15</li> <li>Exp.; Ce=</li> <li>S) Gable require</li> </ul> | n.<br>CE 7-16; Vult=130mph<br>imph; TCDL=6.0psf; Bi<br>Enclosed; MWFRS (er<br>; cantilever left and rigl<br>ght exposed;C-C for more<br>reactions shown; Lu<br>-1.33<br>igned for wind loads in<br>studs exposed to wind<br>ard Industry Gable En<br>qualified building designed<br>CE 7-16; Pr=20.0 psf;<br>CE 7-16; Pr=20.0 psf;<br>P late DOL=1.15); Is=<br>0.9; Cs=1.00; Ct=1.10<br>uires continuous bottom | (3-second gust)<br>CDL=6.0psf; h=25ft;<br>welope) and C-C Co<br>nt exposed ; end veri<br>embers and forces &<br>imber DOL=1.60 plat<br>the plane of the trus<br>(normal to the face)<br>d Details as applicat<br>gner as per ANSI/TP<br>roof LL: Lum DOL=1<br>Pf=13.9 psf (Lum<br>1.0; Rough Cat B; Fu<br>m chord bearing. | Cat.<br>orner<br>tical<br>te<br>ss<br>,<br>ole,<br>21 1.<br>1.15<br>ully   |  |   |  |                            |                      | Mannan.                     |                          | SEA<br>0363    | L<br>22<br>H.B.H.H.H.<br>15,2024 |   |

TRENCO A Mi Tek Atfiliate

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| Job         | Truss | Truss Type         Qty         Ply         14 Overhills Creek-Roof-1 BNS GRH |   |   |                          |           |
|-------------|-------|--|---|---|--------------------------|-----------|
| 24100066-01 | VL8   | Valley   | 1 | 1 | Job Reference (optional) | 168913555 |

1-7-12

1-7-12

Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:58 ID:5hHOINWiN2?Lipya04ecJnyV?hP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

3-0-1

1-4-5

3-3-8

Page: 1

818 Soundside Road Edenton, NC 27932

![](_page_43_Figure_5.jpeg)

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

| Loading<br>TCLL (rd<br>Snow (F<br>TCDL<br>BCLL<br>BCLL<br>BCDL  | k (psf)<br>pof) 20.0<br>f/Pg) 13.9/20.0<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>IRC2021/TPI2014                                    | CSI<br>TC<br>BC<br>WB<br>Matrix-MP  | 0.07<br>0.07<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: 11 lb | <b>GRIP</b><br>244/190<br>FT = 20% |
|---|--|---|--|---|---------------------------------------|---|--------------------------|----------------------|-----------------------------|--------------------------|---------------------------------|------------------------------------|
| TOP CH<br>BOT CH<br>BRACIN<br>TOP CH<br>BOT CH<br>REACTI  | ORD 2x4 SP No.2<br>ORD 2x4 SP No.2<br>IG<br>ORD Structural wood she<br>3-3-8 oc purlins.<br>ORD Rigid ceiling directly<br>bracing.<br>ONS (size) 1=3-3-8, i<br>Max Horiz 1=27 (LC<br>Max Grav 1=132 (LC  | eathing directly applie<br>v applied or 10-0-0 or<br>3=3-3-8<br>12)<br>C 2), 3=132 (LC 2) | on the bott<br>3-06-00 tall<br>chord and a<br>ad or 8) All bearings<br>LOAD CASE(S | m chord in all area<br>by 2-00-00 wide w<br>iny other members<br>are assumed to b<br>) Standard | as where<br>vill fit betv<br>e SP No. | a rectangle<br>veen the bott              | om                       |                      |                             |                          |                                 |                                    |
| TOP CH<br>BOT CH<br>NOTES<br>1) Unb<br>this<br>2) Win<br>Vas<br>II; E<br>(3E)<br>left a<br>MW<br>grip<br>3) Trus<br>only<br>grip<br>3) Trus<br>only<br>see<br>or cc<br>4) TCL<br>Plat<br>DOL<br>Exp<br>5) Gab<br>6) Gab | <ul> <li>IteA-DINS (size) 1=3-3-6, 3=3-3-6</li> <li>Max Horiz 1=27 (LC 12)<br/>Max Grav 1=132 (LC 2), 3=132 (LC 2)</li> <li>ORCES (lb) - Maximum Compression/Maximum<br/>Tension</li> <li>TOP CHORD 1-2=-183/110, 2-3=-183/110</li> <li>30T CHORD 1-2=-183/110, 2-3=-183/120</li> <li>VOTES</li> <li>1) Unbalanced roof live loads have been considered for<br/>this design.</li> <li>2) Wind: ASCE 7-16; Vult=130mph (3-second gust)</li> <li>Vasd=103mph; RCDL=6.0psf; BCDL=6.0psf; h=25f; Cat.<br/>11; Exp B; Enclosed; MWFRS (envelope) and C-C Corner<br/>(3E) zone; cantilever left and right exposed; end vertical<br/>left and right exposed; C-C for members and forces &amp;<br/>MWFRS for reactions shown; Lumber DOL=1.60 plate<br/>grip DOL=1.33</li> <li>3) Truss designed for wind loads in the plane of the truss<br/>only. For stude seposed to wind (normal to the face),<br/>see Standard Industry Gable End Details as applicable,<br/>or consult qualified building designer as per ANS//TPI 1.</li> <li>4) TCLL: ASCE 7-16; Pr=20.0 psf; (PL=13.9 psf (Lum<br/>DOL=1.15); Pg=20.0 psf; Pl=13.9 psf (Lum<br/>DOL=1.15); Pg=20.0 psf; Pl=1</li></ul> |   |  |   |                                       |   |                          |                      |                             |                          |                                 | L<br>22<br>L<br>15,2024            |
|   | WARNING - Verify design paramete   | ers and READ NOTES ON   | THIS AND INCLUDED MITEK  | REFERENCE PAGE MI   | -7473 rev. 1                          | /2/2023 BEFORE                            | EUSE.                    |                      |                             |                          | ENGINEER                        | ING BY                             |

WARNING - Verity design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-7473 rev. 17/2/2/23 BEFORE USE. Design valid for use only with MITER® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/ITP11 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.sbcacomponents.com)

| Job         | Truss | Truss Type | Qty | Ply | 14 Overhills Creek-Roof-1 BNS GRH |           |
|-------------|-------|------------|-----|-----|-----------------------------------|-----------|
| 24100066-01 | VL9   | Valley     | 1   | 1   | Job Reference (optional)          | 168913556 |

Scale = 1:32.4

Loading

TCDL

BCLL

BCDL

TCLL (roof)

Snow (Pf/Pg)

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries. Inc. Tue Oct 15 11:28:58 ID:UrgdA3vtouAvSgumhRnfzayTVno-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

GRIP

244/190

FT = 20%

![](_page_44_Figure_4.jpeg)

| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS | 2x4 SP N<br>2x4 SP N<br>2x4 SP N<br>2x4 SP N<br>2x4 SP N | 0.2<br>0.2<br>0.3<br>0.3          |
|--|--|-----------------------------------|
| BRACING  |  |                                   |
| TOP CHORD  | 2-0-0 oc p   | ourlins (10-0-0 max.): 1-4.       |
| BOT CHORD  | Rigid ceil   | ing directly applied or 10-0-0 oc |
|  | bracing,   | Except:                           |
|  | 6-0-0 oc l   | pracing: 1-8.                     |
| REACTIONS  | (size)   | 1=10-3-0, 5=10-3-0, 6=10-3-0,     |
|  |  | 7=10-3-0, 8=10-3-0                |
|  | Max Uplift   | 1=-7 (LC 11), 5=-20 (LC 2), 7=-20 |
|  |  | (LC 11)                           |
|  | Max Grav   | 1=135 (LC 2), 5=-3 (LC 11), 6=252 |
|  |  | (LC 2), 7=349 (LC 2), 8=92 (LC 2) |
| FORCES   | (lb) - Max   | imum Compression/Maximum          |
|  | Tension  | ·                                 |
| TOP CHORD  | 1-2=-63/4  | 5, 2-3=0/0, 3-4=0/0               |
| BOT CHORD  | 1-8=-130/  | 142. 7-8=0/0. 6-7=0/0. 5-6=0/0    |
| WEBS   | 2-7=-296/  | /334, 3-6=-176/208, 4-5=-12/9     |
| NOTES  |  |                                   |
|  |  |                                   |

- Wind: ASCE 7-16; Vult=130mph (3-second gust) 1) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 3) Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0

4) Unbalanced snow loads have been considered for this desian.

- 5) Provide adequate drainage to prevent water ponding.
- Truss to be fully sheathed from one face or securely 6)
- braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 4-0-0 oc. 7)
- \* This truss has been designed for a live load of 20.0psf 8) 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.
- 9) All bearings are assumed to be SP No.2 .
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 1, 20 lb uplift at joint 5 and 20 lb uplift at joint 7. 11) Non Standard bearing condition. Review required.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

![](_page_44_Picture_19.jpeg)

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.sbcacomponents.com)

| Job         | Truss | Truss Type | Qty | Ply | 14 Overhills Creek-Roof-1 BNS GRH |           |
|-------------|-------|------------|-----|-----|-----------------------------------|-----------|
| 24100066-01 | VL10  | Valley     | 1   | 1   | Job Reference (optional)          | 168913557 |

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:58 ID:X6wkwJsJH9CFWII25gjGxEyTVp9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

![](_page_45_Figure_4.jpeg)

Scale = 1:37.8

| Loading   |         | (psf)                     | Spacing                                 | 2-0-0   |                                   | CSI                           |            | DEFL            | in    | (loc) | l/defl | L/d  | PLATES        | GRIP       |
|-----------|---------|---------------------------|---|---------|-----------------------------------|-------------------------------|------------|-----------------|-------|-------|--------|------|---------------|------------|
| TCLL (roo | of)     | 20.0                      | Plate Grip DOL                          | 1.15    |                                   | TC                            | 0.38       | Vert(LL)        | n/a   | -     | n/a    | 999  | MT20          | 244/190    |
| Snow (Pf. | /Pg)    | 13.9/20.0                 | Lumber DOL                              | 1.15    |                                   | BC                            | 0.07       | Vert(CT)        | n/a   | -     | n/a    | 999  |               |            |
| TCDL      |         | 10.0                      | Rep Stress Incr                         | YES     |                                   | WB                            | 0.03       | Horz(CT)        | 0.00  | 5     | n/a    | n/a  |               |            |
| BCLL      |         | 0.0*                      | Code                                    | IRC2    | 21/TPI2014                        | Matrix-MP                     |            |                 |       |       |        |      |               |            |
| BCDL      |         | 10.0                      |   |         |                                   |                               |            |                 |       |       |        |      | Weight: 27 lb | FT = 20%   |
|           | ,       |                           |   |         | 3) TCLL · ASCE                    | 7-16 <sup>.</sup> Pr=20.0 psf | (roof LI   | · I um DOI =    | 1 15  |       |        |      |               |            |
| TOP CHO   |         | 2x4 SP No 2               |   |         | Plate DOL=1                       | .15): Pa=20.0 psf:            | Pf=13.9    | 9 psf (Lum      |       |       |        |      |               |            |
| BOT CHO   |         | 2x4 SP No 2               |   |         | DOL=1.15 P                        | late DOL=1.15); Is=           | =1.0: R    | ough Cat B: F   | ullv  |       |        |      |               |            |
| WEBS      | 0       | 2x4 SP No.3               |   |         | Exp.; Ce=0.9                      | ; Cs=1.00; Ct=1.10            | )<br>)     | <b>j</b>        |       |       |        |      |               |            |
| OTHERS    | ;       | 2x4 SP No.3               |   |         | 4) This truss ha                  | s been designed fo            | or great   | er of min roof  | live  |       |        |      |               |            |
| BRACINO   | G       |                           |   |         | load of 12.0                      | psf or 2.00 times fla         | at roof l  | oad of 13.9 p   | sf on |       |        |      |               |            |
| TOP CHO   |         | Structural wood sh        | eathing directly applie                 | n or    | overhangs n                       | on-concurrent with            | other liv  | ve loads.       |       |       |        |      |               |            |
|           |         | 4-6-5 oc purlins e        | cept end verticals                      |         | <ol><li>Gable requir</li></ol>    | es continuous botto           | om choi    | d bearing.      |       |       |        |      |               |            |
| вот сно   | ORD     | Rigid ceiling directly    | y applied or 10-0-0 oc                  | 0       | <ol> <li>Gable studs</li> </ol>   | spaced at 4-0-0 oc            |            |                 |       |       |        |      |               |            |
|           |         | bracing.                  |   |         | <ol> <li>I his truss I</li> </ol> | has been designed             | for a liv  | e load of 20.0  | Jpst  |       |        |      |               |            |
| REACTIO   | ONS     | (size) 1=4-6-5,           | 5=4-6-5, 6=4-6-5                        |         | on the botton                     | n chord in all areas          | s where    | a rectangle     |       |       |        |      |               |            |
|           |         | Max Horiz 1=177 (L        | .C 10)                                  |         | 3-06-00 tall i                    | by 2-00-00 wide will          | i iii belv | veen the bott   | JIII  |       |        |      |               |            |
|           |         | Max Uplift 1=-19 (L       | C 9), 5=-176 (LC 10),                   |         | R) All bearings                   | are assumed to be             |            | 2               |       |       |        |      |               |            |
|           |         | 6=-20 (L                  | C 13)                                   |         | a) Provide mer                    | hanical connection            | (by oth    | ers) of truss t | 0     |       |        |      |               |            |
|           |         | Max Grav 1=126 (L         | .C 30), 5=253 (LC 19)                   | ),      | bearing plate                     | capable of withsta            | anding 1   | 76 lb uplift at | ioint |       |        |      |               |            |
|           |         | 6=159 (L                  | .C 29)                                  |         | 5. 19 lb uplif                    | t at joint 1 and 20 lb        | o uplift a | at joint 6.     | Joint |       |        |      |               |            |
| FORCES    | ;       | (Ib) - Maximum Cor        | npression/Maximum                       |         | 10) Beveled plat                  | e or shim required            | to provi   | de full bearin  | g     |       |        |      |               |            |
| тор сно   | ORD     | 1-2=-523/160. 2-3=        | -453/109. 3-4=-101/0                    | ).      | surface with                      | truss chord at joint          | (s) 1.     |                 |       |       |        |      |               |            |
|           |         | 3-5=-257/547              |   | ,       | LOAD CASE(S)                      | Standard                      |            |                 |       |       |        |      |               |            |
| BOT CHO   | ORD     | 1-6=-140/110, 5-6=        | -70/76                                  |         |                                   |                               |            |                 |       |       |        |      |               |            |
| WEBS      |         | 2-6=-196/78               |   |         |                                   |                               |            |                 |       |       |        |      |               | 117        |
| NOTES     |         |                           |   |         |                                   |                               |            |                 |       |       |        |      |               |            |
| 1) Wind   | I: ASC  | CE 7-16; Vult=130mp       | h (3-second gust)                       |         |                                   |                               |            |                 |       |       |        |      | IN TH UA      | ROUL       |
| Vasd      | l=103   | 8mph; TCDL=6.0psf; E      | SCDL=6.0psf; h=25ft;                    | Cat.    |                                   |                               |            |                 |       |       |        | N    | A             | D. C. M.   |
| II; Ex    | рB;I    | Enclosed; MWFRS (e        | nvelope) and C-C                        |         |                                   |                               |            |                 |       |       | /      | 22   | Y OFESO       | PN. Si     |
| Exter     | rior(21 | E) 0-0-0 to 3-0-0, Inte   | rior (1) 3-0-0 to 6-3-5                 |         |                                   |                               |            |                 |       |       | 4      | 0    | u /.          | Carlos -   |
| zone      | ; cant  | tilever left and right ex | posed ; end vertical l                  | left    |                                   |                               |            |                 |       |       | -      |      | .4-           | N 1 1 2    |
| and r     | ight e  | exposed;C-C for mem       | bers and forces &                       |         |                                   |                               |            |                 |       | -     |        | SEA  | 1 1 2         |            |
|           | -R5 10  | or reactions shown; L     | umber DOL=1.60 pla                      | te      |                                   |                               |            |                 |       |       | =      |      |               |            |
| 2) Trucc  |         | ianod for wind loode i    | a the plane of the true                 | 20      |                                   |                               |            |                 |       |       | Ξ      |      | 0363          | 22 : : :   |
|           | S UESI  | stude exposed to win      | n the plane of the trus                 | 55      |                                   |                               |            |                 |       |       |        | i (i | •             | 1 E -      |
| See S     | Stand   | lard Industry Gable Fi    | nd Details as applicab                  | ,<br>de |                                   |                               |            |                 |       |       |        | 1    | ·             | A 1. 3     |
| or co     | nsult   | qualified building des    | igner as per ANSI/TF                    | 911.    |                                   |                               |            |                 |       |       |        | -1   | NGINI         | EENIAS     |
| 2. 00     |         | ,                         | 5 · · · · · · · · · · · · · · · · · · · |         |                                   |                               |            |                 |       |       |        | 1    | No. SIN       | E. E. M. N |
|           |         |                           |   |         |                                   |                               |            |                 |       |       |        |      | 1 CA O        | II BY      |

- MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33 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.

818 Soundside Road Edenton, NC 27932

GI A. GIL October 15,2024

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| Job         | Truss | Truss Type | Qty | Ply | 14 Overhills Creek-Roof-1 BNS GRH |           |
|-------------|-------|------------|-----|-----|-----------------------------------|-----------|
| 24100066-01 | VL11  | Valley     | 1   | 1   | Job Reference (optional)          | 168913558 |

2-10-1

2-10-1

2x4 🛛

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Carter Components (Sanford, NC), Sanford, NC - 27332,

4-7-5

-0-0

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:58 ID:X6wkwJsJH9CFWII25gjGxEyTVp9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

2-10-5

4-7-1

1-9-0 4

2x4 🛛

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3

Page: 1

5 6 3x6 🛛 2x4 🅢 2x4 II 2-10-1 csi DEFL L/d PLATES l/defl GRIP in (loc) dimments. SEAL

#### Scale = 1:32.8

| Loading<br>TCLL (roof)<br>Snow (Pf/Pg)<br>TCDL<br>BCLL<br>BCDL                                       | (psf)<br>20.0<br>13.9/20.0<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>IRC202 <sup>2</sup>     | I/TPI2014  | CSI<br>TC<br>BC<br>WB<br>Matrix-MP   | 0.43<br>0.04<br>0.06   | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)   | 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: 18 lb | <b>GRIP</b><br>244/190<br>FT = 20% |
|--|---|---|---|--|--|--|--|---|----------------------|-----------------------------|--------------------------|---------------------------------|------------------------------------|
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS | 2x4 SP No.2<br>2x4 SP No.2<br>2x4 SP No.3<br>2x4 SP No.3<br>Structural wood she<br>2-10-5 oc purlins, e<br>Rigid ceiling directly<br>bracing.<br>(size) 1=2-10-5,<br>Max Horiz 1=128 (LC<br>Max Uplift 1=-9 (LC 19)<br>Max Grav 1=87 (LC<br>(LC 10) | athing directly applie<br>xcept end verticals.<br>applied or 10-0-0 oc<br>5=2-10-5, 6=2-10-5<br>C 10)<br>9), 5=-194 (LC 10), 6<br>30), 5=289 (LC 19), | 3)<br>4)<br>6d or 5)<br>6)<br>7)<br>6=-79 8)<br>6=96 9) | TCLL: ASCE<br>Plate DOL=1<br>DOL=1.15 P<br>Exp.; Ce=0.9<br>This truss ha<br>load of 12.0<br>overhangs n<br>Gable studs<br>* This truss 1<br>on the botton<br>3-06-00 tall I<br>chord and an<br>All bearings<br>Provide mecu<br>bearing plate<br>5, 9 lb uplift | E 7-16; Pr=20.0<br>1.15); Pg=20.0<br>Plate DOL=1.15<br>9; Cs=1.00; Ct=<br>as been design<br>psf or 2.00 time<br>on-concurrent t<br>res continuous l<br>spaced at 4-0-<br>has been desig<br>m chord in all a<br>by 2-00-00 wide<br>ny other membrare<br>assumed tt<br>chanical connect<br>e capable of wit<br>at joint 1 and 75 | psf (roof LL<br>psf; Pf=13.9<br>); Is=1.0; Rc<br>=1.10<br>ed for great<br>es flat roof lc<br>with other li<br>bottom chor<br>0 oc.<br>ned for a liv<br>reas where<br>e will fit betv<br>ers.<br>o be SP No.<br>ction (by oth<br>thstanding 1<br>9 lb uplift at | 2: Lum DOL=<br>2 psf (Lum<br>ough Cat B; F<br>ough Cat B; F<br>er of min rooi<br>oad of 13.9 p<br>ve loads.<br>rd bearing.<br>re load of 20.<br>a rectangle<br>veen the bott<br>2.<br>ers) of truss<br>194 lb uplift a<br>joint 6. | 1.15<br>Fully<br>f live<br>sf on<br>Opsf<br>om<br>to<br>t joint |                      |                             |                          |                                 |                                    |
| FORCES   | (lb) - Maximum Com<br>Tension   | pression/Maximum  | 10  | ) Beveled plat<br>surface with   | e or shim requi<br>truss chord at  | ired to provi<br>joint(s) 1.   | de full bearin   | g   |                      |                             |                          |                                 |                                    |
|  | 3-5=-317/628  | 91/133, 3-4=-101/0,   | LC  | OAD CASE(S)  | Standard   |  |  |   |                      |                             |                          |                                 |                                    |
| BOT CHORD  | 1-6=-145/63, 5-6=-4<br>2-6=-158/144   | 1/44  |   |  |  |  |  |   |                      |                             |                          |                                 |                                    |
| NOTES<br>1) Wind: ASI<br>Vasd=103<br>II; Exp B;  | CE 7-16; Vult=130mph<br>mph; TCDL=6.0psf; B(<br>Enclosed; MWFRS (er   | (3-second gust)<br>CDL=6.0psf; h=25ft;<br>ivelope) and C-C  | Cat.  |  |  |  |  |   |                      |                             | - AN                     | ORTH CA                         | ROLIN                              |

- Exterior(2E) 0-0-0 to 2-8-9, Interior (1) 2-8-9 to 4-7-5 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33 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.

![](_page_46_Picture_8.jpeg)

G nnnn October 15,2024

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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 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 PCB Building Component Science Michael Component Advancing Component Advancing Component Advancing and PCB and Component Advancing Component Compone and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

| Job         | Truss | Truss Type | Qty | Ply | 14 Overhills Creek-Roof-1 BNS GRH |           |
|-------------|-------|------------|-----|-----|-----------------------------------|-----------|
| 24100066-01 | VL12  | Valley     | 1   | 1   | Job Reference (optional)          | 168913559 |

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:58 ID:NLOiSclksuXIOgPGRC2cxryTVo?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

![](_page_47_Figure_5.jpeg)

Scale = 1:44.7

| Loading<br>TCLL (roof)<br>Snow (Pf/Pg)<br>TCDL<br>BCLL<br>BCDL                                       | (psf)<br>20.0<br>13.9/20.0<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>IRC202  | 1/TPI2014   | <b>CSI</b><br>TC<br>BC<br>WB<br>Matrix-MP  | 0.55<br>0.11<br>0.06  | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)             | 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: 36 lb | <b>GRIP</b><br>244/190<br>FT = 20% |
|--|--|---|---|---|--|---|--|--------------------------|----------------------|-----------------------------|--------------------------|---------------------------------|------------------------------------|
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS | 2x4 SP No.2<br>2x4 SP No.2<br>2x4 SP No.3<br>2x4 SP No.3<br>Structural wood she<br>6-0-0 oc purlins, ex<br>Rigid ceiling directly<br>bracing.<br>(size) 1=6-0-5, §<br>Max Horiz 1=222 (LC<br>Max Uplift 1=-26 (LC<br>6=-54 (LC<br>Max Grav 1=163) (LC<br>6=-57 (LC | 3)<br>4)<br>ed or 5)<br>c 6)<br>c 7)<br>, 8)<br>), 9)                     | TCLL: ASCE<br>Plate DOL=1<br>DOL=1.15 P<br>Exp.; Ce=0.9<br>This truss ha<br>load of 12.0<br>overhangs n<br>Gable requir<br>Gable studs<br>* This truss h<br>on the bottor<br>3-06-00 tall b<br>chord and ar<br>All bearings<br>Provide mec<br>bearing plate | 7-16; Pr=20.0 psi<br>.15); Pg=20.0 psi;<br>late DOL=1.15); Is<br>9; Cs=1.00; Ct=1.1<br>sis been designed f<br>psif or 2.00 times f<br>fon-concurrent with<br>es continuous bott<br>spaced at 4-0-0 on<br>as been designed<br>n chord in all area<br>by 2-00-00 wide win<br>y other members.<br>are assumed to be<br>hanical connection<br>e capable of withst | f (roof LL<br>Pf=13.5<br>=1.0; Rc<br>0<br>for greate<br>a other lin<br>om chor<br>C.<br>I for a liv<br>s where<br>II fit betv<br>e SP No.<br>h (by oth<br>anding 1 | : Lum DOL=<br>psf (Lum<br>pugh Cat B; F<br>er of min roof<br>pad of 13.9 p:<br>re loads.<br>d bearing.<br>e load of 20.0<br>a rectangle<br>reen the botto<br>2.<br>ers) of truss t<br>79 lb uplift at | 1.15<br>Fully<br>f live<br>sf on<br>Opsf<br>om<br>to |                          |                      |                             |                          |                                 |                                    |
| FORCES<br>TOP CHORD<br>BOT CHORD   | (lb) - Maximum Com<br>Tension<br>1-2=-402/269, 2-3=-<br>3-5=-302/281<br>1-6=-131/166, 5-6=-  | 226/117, 3-4=-103/0<br>95/103   | 10<br><sup>),</sup> LC  | 5, 26 lb uplift<br>) Beveled plat<br>surface with<br>DAD CASE(S)  | at joint 1 and 54 I<br>e or shim required<br>truss chord at join<br>Standard   | b uplift a<br>to provi<br>t(s) 1.   | t joint 6.<br>de full bearin                         | g                        |                      |                             |                          |                                 |                                    |
| WEBS<br>NOTES<br>1) Wind: AS(<br>Vasd=103<br>II; Exp B;  | 2-6=-333/137<br>CE 7-16; Vult=130mph<br>mph; TCDL=6.0psf; Br<br>Enclosed; MWFRS (er  | (3-second gust)<br>CDL=6.0psf; h=25ft;<br>ivelope) and C-C                | Cat.  |   |  |   |  |                          |                      | 6                           | 111                      | OR THESS                        | BOJIII                             |

- Exterior(2E) 0-0-0 to 3-0-1, Interior (1) 3-0-1 to 7-9-13 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 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.

With the transmission :0 Wanninnin and SEAL 036322 GI October 15,2024

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![](_page_47_Picture_12.jpeg)

| Job         | Truss | Truss Type | Qty | Ply | 14 Overhills Creek-Roof-1 BNS GRH |           |
|-------------|-------|------------|-----|-----|-----------------------------------|-----------|
| 24100066-01 | VL13  | Valley     | 1   | 1   | Job Reference (optional)          | 168913560 |

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:58 ID:0NbpOvhb1MvTHvWIefSREnyTVo4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

![](_page_48_Figure_4.jpeg)

Scale = 1:37.3

| Loading<br>TCLL (roof)<br>Snow (Pf/Pg)<br>TCDL<br>BCLL<br>BCDL  | (psf)<br>20.0<br>13.9/20.0<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>IRC202 <sup>2</sup>   | 1/TPI2014  | CSI<br>TC<br>BC<br>WB<br>Matrix-MP  | 0.35<br>0.07<br>0.04  | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)   | 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: 27 lb | <b>GRIP</b><br>244/190<br>FT = 20% |
|---|--|--|---|--|---|---|--|--|----------------------|-----------------------------|--|---------------------------------|------------------------------------|
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS  | 2x4 SP No.2<br>2x4 SP No.2<br>2x4 SP No.3<br>2x4 SP No.3<br>Structural wood sh<br>4-4-5 oc purlins, e<br>Rigid ceiling direct<br>bracing.<br>(size) 1=4-4-5<br>Max Horiz 1=173 (<br>Max Uplift 1=-18 (<br>6=-14 (L   | eathing directly applie<br>xcept end verticals.<br>y applied or 10-0-0 or<br>5=4-4-5, 6=4-4-5<br>_C 10)<br>C 9), 5=-181 (LC 10)<br>C 13)   | 3)<br>4)<br>ed or 5)<br>c 6)<br>c 7)<br>, 8)<br>y 9)  | TCLL: ASCE<br>Plate DOL=1<br>DOL=1.15 P<br>Exp.; Ce=0.<br>This truss ha<br>load of 12.0<br>overhangs n<br>Gable requir<br>Gable studs<br>* This truss l<br>on the botto<br>3-06-00 tall<br>chord and ai<br>All bearings<br>Provide mec | 5 7-16; Pr=20.0 ;<br>1.15); Pg=20.0 ;<br>late DQL=1.15);<br>by Cs=1.00; Ct=1<br>as been designe<br>psf or 2.00 timese<br>on-concurrent w<br>es continuous b<br>spaced at 4-0-0<br>has been design<br>m chord in all ard<br>by 2-00-00 wide<br>hare assumed to<br>chanical connect | psf (roof LL<br>psf; Pf=13.5;<br>; Is=1.0; Ro<br>1.10<br>ed for greate<br>s flat roof lo<br>vith other liv<br>voottom chor<br>o oc.<br>ned for a liv<br>eas where<br>will fit betw<br>ers.<br>be SP No.<br>tion (by oth | : Lum DOL=<br>psf (Lum<br>pugh Cat B; F<br>er of min roo<br>pad of 13.9 p<br>ve loads.<br>d bearing.<br>e load of 20.<br>a rectangle<br>veen the bott<br>2.<br>ers) of truss | 1.15<br>Fully<br>f live<br>sf on<br>Opsf<br>om |                      |                             |  |                                 |                                    |
| FORCES<br>TOP CHORD<br>BOT CHORD  | (ib) - Maximum Co<br>Tension<br>1-2=-300/171, 2-3:<br>3-5=-324/263<br>1-6=-102/111, 5-6:   | _C 29)<br>mpression/Maximum<br>251/125, 3-4=-103/(<br>67/73  | ),<br>10<br>), LC                                     | bearing plate<br>5, 18 lb uplif<br>) Beveled plat<br>surface with<br>)AD CASE(S)   | e capable of with<br>t at joint 1 and 1<br>e or shim requir<br>truss chord at jo<br>Standard  | nstanding 1<br>4 lb uplift a<br>red to provi<br>pint(s) 1.  | 81 lb uplift a<br>t joint 6.<br>de full bearin   | t joint<br>g                                   |                      |                             |  |                                 |                                    |
| <ul> <li>WEBS</li> <li>NOTES</li> <li>1) Wind: ASG<br/>Vasd=103<br/>II; Exp B;<br/>Exterior(2<br/>zone; can<br/>and right 6<br/>MWFRS f<br/>grip DOL=</li> <li>2) Truss des<br/>only. For<br/>see Stand<br/>or consult</li> </ul> | 2-6=-265/66<br>CE 7-16; Vult=130mp<br>mph; TCDL=6.0psf;<br>Enclosed; MWFRS (<br>E) 0-0-0 to 3-0-0, Inte<br>tilever left and right e<br>exposed;C-C for men<br>or reactions shown; I<br>=1.33<br>igned for wind loads<br>studs exposed to wir<br>lard Industry Gable E<br>qualified building de | h (3-second gust)<br>BCDL=6.0psf; h=25ft;<br>envelope) and C-C<br>erior (1) 3-0-0 to 6-1-1<br>xposed ; end vertical<br>bers and forces &<br>.umber DOL=1.60 pla<br>in the plane of the true<br>d (normal to the face;<br>nd Details as applical<br>signer as per ANSI/TF | Cat.<br>3<br>left<br>tte<br>ss<br>),<br>ble,<br>PI 1. |  |   |   |  |  |                      | M. CONTRACTOR               | The second secon | SEA<br>0363                     | L 22<br>EER. H                     |

- zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 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.

![](_page_48_Picture_9.jpeg)

GI

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| Job         | Truss | Truss Type | Qty | Ply | 14 Overhills Creek-Roof-1 BNS GRH |           |
|-------------|-------|------------|-----|-----|-----------------------------------|-----------|
| 24100066-01 | VL14  | Valley     | 1   | 1   | Job Reference (optional)          | 168913561 |

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 15 11:28:58 ID:7cLIZYe4z8O1pIDXPpOV4xyTVo8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

![](_page_49_Figure_5.jpeg)

Scale = 1:32.3

|              |  | i  |                    |                                   |   |                |                  |        |       |        |       | 1             |          |
|--------------|--|--|--------------------|-----------------------------------|---|----------------|------------------|--------|-------|--------|-------|---------------|----------|
| Loading      | (psf)  | Spacing  | 2-0-0              |                                   | CSI                                     |                | DEFL             | in     | (loc) | l/defl | L/d   | PLATES        | GRIP     |
| TCLL (roof)  | 20.0   | Plate Grip DOL                                 | 1.15               |                                   | TC                                      | 0.33           | Vert(LL)         | n/a    | -     | n/a    | 999   | MT20          | 244/190  |
| Snow (Pf/Pg) | 13.9/20.0  | Lumber DOL                                     | 1.15               |                                   | BC                                      | 0.04           | Vert(CT)         | n/a    | -     | n/a    | 999   |               |          |
| TCDL         | 10.0   | Rep Stress Incr                                | YES                |                                   | WB                                      | 0.07           | Horz(CT)         | 0.00   | 5     | n/a    | n/a   |               |          |
| BCLL         | 0.0*   | Code   | IRC20              | 21/TPI2014                        | Matrix-MP                               |                |                  |        |       |        |       |               |          |
| BCDL         | 10.0   |  |                    |                                   |   |                |                  |        |       |        |       | Weight: 17 lb | FT = 20% |
|              |  |  | 3                  | ) TCLL: ASCE                      | 7-16: Pr=20.0 psf                       | (roof Ll       | : Lum DOL=       | 1.15   |       |        |       |               |          |
| TOP CHORE    | 2v4 SP No 2  |  |                    | Plate DOL=1                       | .15): Pa=20.0 psf:                      | Pf=13.9        | 9 psf (Lum       |        |       |        |       |               |          |
| BOT CHORE    | 2x4 SI No.2  |  |                    | DOI =1 15 P                       | ate DOI =1 15): Is=                     | =1 0' R        | ough Cat B· F    | ully   |       |        |       |               |          |
| WERS         | 2x4 SI No.2  |  |                    | Exp: Ce=0.9                       | $C_{s=1} 00^{\circ} C_{t=1} 10^{\circ}$ | - 1.0, 1.<br>) | bugh out b, i    | uny    |       |        |       |               |          |
| OTUEDO       | 2X4 OF No.3  |  |                    | ) This trues ha                   | s been designed for                     | or areat       | er of min roof   | livo   |       |        |       |               |          |
| UTHERS       | 2X4 SP N0.3  |  |                    |                                   | s been designed it                      | n great        |                  | of on  |       |        |       |               |          |
| BRACING      |  |  |                    |                                   |   | athori         | ua laada         | 51 011 |       |        |       |               |          |
| TOP CHORD    | Structural wood sheat<br>2.8.5 oc purling over<br>3.8.5 oc purling | athing directly applie                         | ed or 5            | ) Gable require                   | es continuous botto                     | omer in        | d bearing.       |        |       |        |       |               |          |
| BOT CHORD    | <ul> <li>Rigid ceiling directly<br/>bracing</li> </ul>             | applied or 10-0-0 oc                           | c 6                | ) Gable studs<br>) * This truss h | spaced at 4-0-0 oc<br>las been designed | for a liv      | re load of 20.0  | Opsf   |       |        |       |               |          |
| PEACTIONS    | (cize) 1-2-8-5 F   | 5-2-8-5 6-2-8-5                                |                    | on the bottor                     | n chord in all areas                    | where          | a rectangle      |        |       |        |       |               |          |
| REACTIONS    | $M_{OV} = 1 - 2^{-0} - 3, C$                                       | $5 = 2 \cdot 0 \cdot 5, 0 = 2 \cdot 0 \cdot 5$ |                    | 3-06-00 tall b                    | y 2-00-00 wide will                     | l fit betv     | veen the botto   | om     |       |        |       |               |          |
|              |  | ) []<br>) [] 004 (  0 40) (                    |                    | chord and ar                      | y other members.                        |                |                  |        |       |        |       |               |          |
|              | Max Upilit 1=-8 (LC s  | 9), 5=-204 (LC 10), 6                          | 5 <del>-99</del> 8 | ) All bearings a                  | are assumed to be                       | SP No.         | 2.               |        |       |        |       |               |          |
|              | (LC 19)  | aa) = aa= (1 <b>0</b> 4a)                      | ç                  | ) Provide mec                     | hanical connection                      | (by oth        | ers) of truss t  | 0      |       |        |       |               |          |
|              | Max Grav 1=84 (LC<br>6=109 (LC                                     | 30), 5=305 (LC 19),<br>C 10)                   |                    | bearing plate                     | capable of withsta                      | inding 2       | 204 Ib uplift at | joint  |       |        |       |               |          |
| FORCES       | (lb) - Maximum Com   | pression/Maximum                               | 1                  | 0) Beveled plate                  | e or shim required                      | to provi       | de full bearing  | g      |       |        |       |               |          |
| TOP CHORD    | 1-2=-185/79, 2-3=-23   | 31/184, 3-4=-103/0,                            | ı                  | Surface with<br>OAD CASE(S)       | truss chord at joint                    | (s) 1.         |                  |        |       |        |       |               |          |
|              | 3-5=-386/263   | /44  | -                  | 0/10 0/102(0)                     | olandara                                |                |                  |        |       |        |       |               |          |
| WEBS         | 2-6=-215/166   | /41  |                    |                                   |   |                |                  |        |       |        |       |               |          |
| NOTES        |  |  |                    |                                   |   |                |                  |        |       |        |       | minin         | 11111    |
| 1) Wind AS   | CE 7-16: Vult-130mph   | (3-second quist)                               |                    |                                   |   |                |                  |        |       |        |       | W'TH CA       | ROUL     |
| Vasd-10      | 3mph: TCDI –6 Opsf: B(   | CDI -6 Onsf: h-25ft:                           | Cat                |                                   |   |                |                  |        |       |        | 1     | 21            |          |
|              | Enclosed: MW/ERS (on   | volono) and C C                                | out.               |                                   |   |                |                  |        |       | /      | S.    | 0/100         | The Ala  |
| T, Exp B,    | Eliciosed, MWERG (eli  | (1) = 0 and $(-0)$                             | <b>°</b>           |                                   |   |                |                  |        |       | 6      | 1 A   | 1115 11       |          |
| Exterior(2   | 2E) 0-0-0 10 3-0-0, Inten  | 101 (1) 3-0-0 10 4-5-1                         | 5                  |                                   |   |                |                  |        |       | 4      |       | 19 20         |          |
| ZUITE, Car   | averaged C C for moment  |  | en                 |                                   |   |                |                  |        |       | 2      | 6 9   |               |          |
|              | exposed, C-C for memo  |  | 4.0                |                                   |   |                |                  |        |       | -      |       | SEA           | L 1 2    |
|              | 101 Teactions shown, Lu  | Inder DOL=1.60 pla                             | le                 |                                   |   |                |                  |        |       | -      |       | O L/ (        | <b>T</b> |
|              | =1.33  |  |                    |                                   |   |                |                  |        |       |        |       | 0363          | 22 ; =   |
| 2) Truss de  | signed for wind loads in   | the plane of the trus                          | SS                 |                                   |   |                |                  |        |       | -      | ( ) ( |               |          |
| only. For    | stuas exposed to wind  | (normal to the face)                           |                    |                                   |   |                |                  |        |       |        |       | A             | 1. 5     |
| see Stan     | dard Industry Gable End  | d Details as applicab                          | ole,               |                                   |   |                |                  |        |       |        | 2.    | A. En         | CRIX S   |
| or consul    | t qualified building desig   | gner as per ANSI/TP                            | 41.                |                                   |   |                |                  |        |       |        | 21    | S, GIN        | CH. AN   |
|              |  |  |                    |                                   |   |                |                  |        |       |        | 1     | CA -          | IL BE IN |

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![](_page_49_Picture_12.jpeg)

GI October 15,2024

![](_page_50_Figure_0.jpeg)