

RE: 1010683 - H&H-NC/Harmony/979/CarriageGlenAnderson

**Trenco**

818 Soundside Rd  
 Edenton, NC 27932

**Site Information:**

Project Customer: H and H Project Name: 1010683  
 Lot/Block: 979 Subdivision: Carriage Glen at Anderson Cre  
 Model:  
 Address:  
 City: SPRING LAKE State: NC

**General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):**

Design Code: IRC2009/TPI2007 Design Program: MiTek 20/20 7.6  
 Wind Code: ASCE 7-05 Wind Speed: 100 mph Design Method: MWFRS(low-rise)/C-C hybrid Wind ASCE 7-05  
 Roof Load: 40.0 psf Floor Load: N/A psf  
 Mean Roof Height (feet): 25 Exposure Category: C

| No. | Seal#     | Truss Name | Date    |
|-----|-----------|------------|---------|
| 1   | I33330211 | A05        | 5/15/18 |
| 2   | I33330212 | A07        | 5/15/18 |
| 3   | I33330213 | A07A       | 5/15/18 |
| 4   | I33330214 | A15        | 5/15/18 |
| 5   | I33330215 | A31        | 5/15/18 |
| 6   | I33330216 | A32        | 5/15/18 |
| 7   | I33330217 | A33        | 5/15/18 |
| 8   | I33330218 | A34        | 5/15/18 |
| 9   | I33330219 | A36        | 5/15/18 |
| 10  | I33330220 | A37        | 5/15/18 |
| 11  | I33330221 | A38        | 5/15/18 |
| 12  | I33330222 | A39        | 5/15/18 |
| 13  | I33330223 | A40        | 5/15/18 |
| 14  | I33330224 | B01        | 5/15/18 |
| 15  | I33330225 | C01        | 5/15/18 |
| 16  | I33330226 | C03        | 5/15/18 |
| 17  | I33330227 | C03A       | 5/15/18 |
| 18  | I33330228 | J101       | 5/15/18 |
| 19  | I33330229 | J102       | 5/15/18 |
| 20  | I33330230 | J103       | 5/15/18 |
| 21  | I33330231 | J104       | 5/15/18 |
| 22  | I33330232 | J105       | 5/15/18 |
| 23  | I33330233 | J106       | 5/15/18 |
| 24  | I33330234 | J107       | 5/15/18 |
| 25  | I33330235 | J109       | 5/15/18 |
| 26  | I33330236 | J113       | 5/15/18 |
| 27  | I33330237 | J114       | 5/15/18 |
| 28  | I33330238 | J115       | 5/15/18 |
| 29  | I33330239 | J116       | 5/15/18 |
| 30  | I33330240 | J117       | 5/15/18 |
| 31  | I33330241 | J118       | 5/15/18 |
| 32  | I33330242 | PB02       | 5/15/18 |

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Sumter,SC.

Truss Design Engineer's Name: Vance, Jeff  
 My license renewal date for the state of North Carolina is December 31, 2018.

**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.



May 15, 2018



|                |              |                              |          |          |   |           |
|----------------|--------------|------------------------------|----------|----------|---|-----------|
| Job<br>1010683 | Truss<br>A07 | Truss Type<br>PIGGYBACK BASE | Qty<br>2 | Ply<br>1 | H&H-NC/Harmony/979/CarriageGlenAnderson | I33330212 |
|----------------|--------------|------------------------------|----------|----------|---|-----------|

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7.640 s Aug 16 2017 MiTek Industries, Inc. Mon May 14 15:53:14 2018 Page 1  
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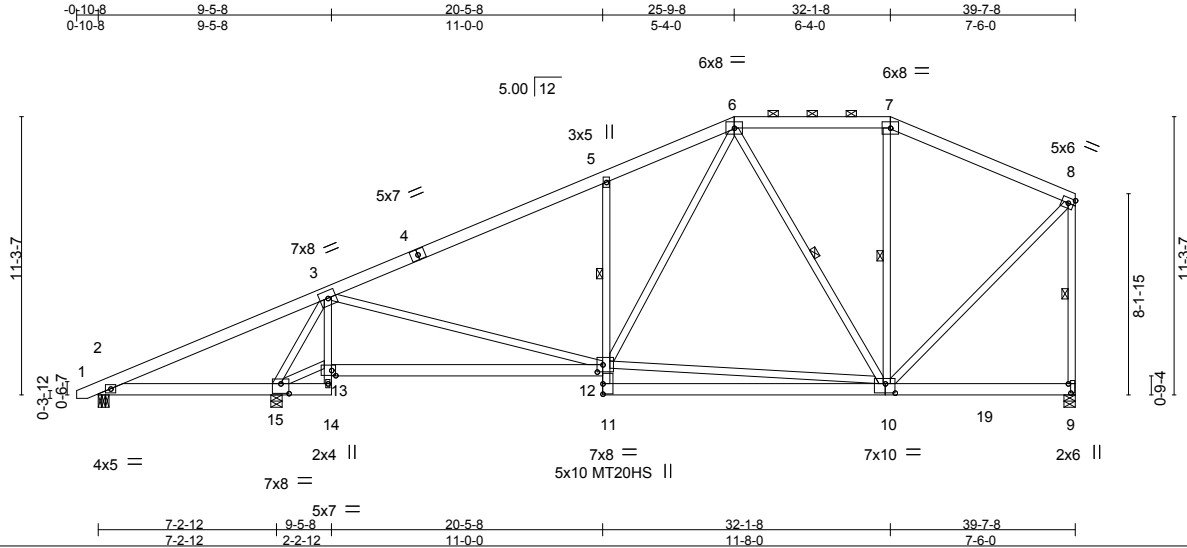


Plate Offsets (X,Y)-- [9:0-4-8,0-1-4], [10:0-4-12,0-4-8], [12:0-2-12,0-3-8], [13:0-2-0,0-2-8], [15:0-4-0,0-4-12]

| LOADING (psf) | SPACING-             | 2-0-0 | CSI.       | DEFL.    | in (loc)    | l/defl | L/d | PLATES         | GRIP     |
|---------------|----------------------|-------|------------|----------|-------------|--------|-----|----------------|----------|
| TCLL 20.0     | Plate Grip DOL       | 1.15  | TC 0.55    | Vert(LL) | -0.13 12-13 | >999   | 360 | MT20           | 244/190  |
| TCDL 10.0     | Lumber DOL           | 1.15  | BC 0.60    | Vert(TL) | -0.37 12-13 | >999   | 240 | MT20HS         | 187/143  |
| BCLL 0.0 *    | Rep Stress Incr      | YES   | WB 0.85    | Horz(TL) | 0.05 9      | n/a    | n/a |                |          |
| BCDL 10.0     | Code IRC2009/TPI2007 |       | (Matrix-S) | Wind(LL) | 0.06 12-13  | >999   | 240 |                |          |
|               |                      |       |            |          |             |        |     | Weight: 329 lb | FT = 20% |

**LUMBER-**

TOP CHORD 2x6 SP No.2  
 BOT CHORD 2x6 SP No.2 \*Except\*  
 3-14,5-11: 2x4 SP No.2  
 WEBS 2x4 SP No.3 \*Except\*  
 8-9: 2x4 SP No.2

**BRACING-**

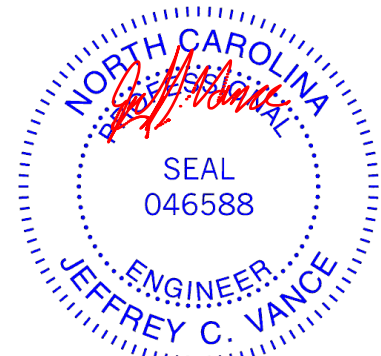
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.  
 BOT CHORD Rigid ceiling directly applied. Except:  
 1 Row at midpt 5-12  
 WEBS 1 Row at midpt 6-10, 7-10, 8-9

**REACTIONS.** (lb/size) 2=64/0-5-4, 15=1898/0-5-8, 9=1235/0-5-8  
 Max Horz 2=331(LC 8)  
 Max Uplift 2=-64(LC 6), 15=-401(LC 8), 9=-87(LC 7)  
 Max Grav 2=70(LC 13), 15=1898(LC 1), 9=1235(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-524/707, 3-4=-1458/491, 4-5=-1320/538, 5-6=-1378/739, 6-7=-686/423,  
 7-8=-806/377, 8-9=-1179/536  
 BOT CHORD 2-15=-543/132, 3-13=0/373, 12-13=-369/557, 5-12=-519/490  
 WEBS 3-15=-2101/985, 13-15=-255/608, 3-12=-189/688, 10-12=-268/679, 6-12=-364/669,  
 6-10=-473/248, 8-10=-350/971

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 100mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; cantilever left exposed ; end vertical left exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 64 lb uplift at joint 2, 401 lb uplift at joint 15 and 87 lb uplift at joint 9.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



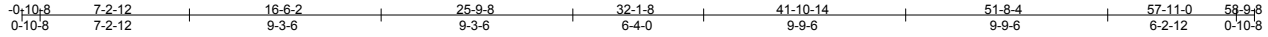
818 Soundside Road  
 Edenton, NC 27932



|                |              |                   |          |          |   |           |
|----------------|--------------|-------------------|----------|----------|---|-----------|
| Job<br>1010683 | Truss<br>A15 | Truss Type<br>HIP | Qty<br>1 | Ply<br>1 | H&H-NC/Harmony/979/CarriageGlenAnderson<br>Job Reference (optional) | I33330214 |
|----------------|--------------|-------------------|----------|----------|---|-----------|

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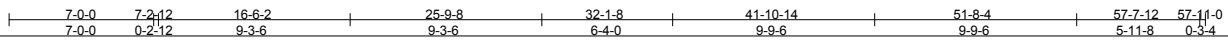
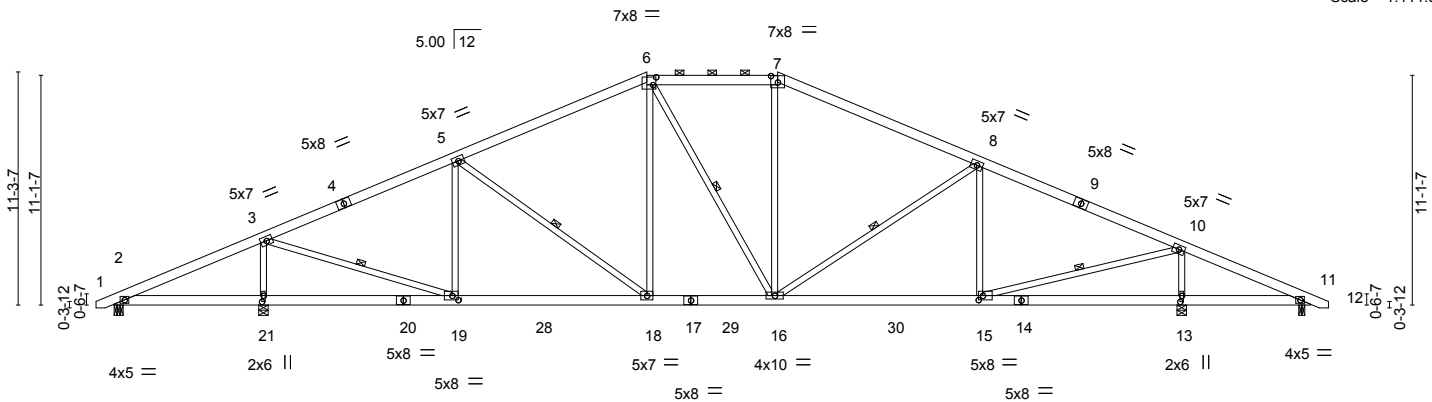


Plate Offsets (X,Y)-- [6:0-1-12,0-4-8], [7:0-4-0,0-3-12], [13:0-3-8,0-1-0], [15:0-2-8,0-2-8], [19:0-3-8,0-2-8], [21:0-3-8,0-1-0]

| LOADING (psf) | SPACING-             | 2-0-0 | CSI.       | DEFL.    | in (loc) | l/defl | L/d  | PLATES         | GRIP     |         |
|---------------|----------------------|-------|------------|----------|----------|--------|------|----------------|----------|---------|
| TCLL 20.0     | Plate Grip DOL       | 1.15  | TC 0.40    | Vert(LL) | -0.13    | 15-16  | >999 | 360            | MT20     | 244/190 |
| TCDL 10.0     | Lumber DOL           | 1.15  | BC 0.54    | Vert(TL) | -0.34    | 15-16  | >999 | 240            |          |         |
| BCLL 0.0 *    | Rep Stress Incr      | YES   | WB 0.86    | Horz(TL) | 0.06     | 13     | n/a  | n/a            |          |         |
| BCDL 10.0     | Code IRC2009/TPI2007 |       | (Matrix-S) | Wind(LL) | 0.10     | 15-16  | >999 | 240            |          |         |
|               |                      |       |            |          |          |        |      | Weight: 422 lb | FT = 20% |         |

**LUMBER-**

TOP CHORD 2x6 SP No.2  
BOT CHORD 2x6 SP No.2  
WEBS 2x4 SP No.3

**BRACING-**

TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-3-15 max.): 6-7.  
BOT CHORD Rigid ceiling directly applied.  
WEBS 1 Row at midpt 3-19, 5-18, 6-16, 8-16, 10-15

**REACTIONS.**

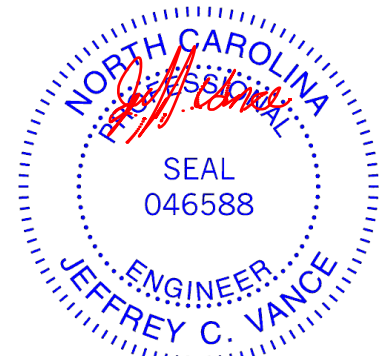
All bearings 0-5-8 except (jt=length) 2=0-5-4, 11=0-3-8.  
(lb) - Max Horz 21=-152(LC 9)  
Max Uplift All uplift 100 lb or less at joint(s) except 2=-145(LC 8), 21=-322(LC 8), 13=-290(LC 9), 11=-146(LC 9)  
Max Grav All reactions 250 lb or less at joint(s) 2, 11 except 21=2202(LC 1), 13=2103(LC 1)

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

TOP CHORD 3-4=-2093/886, 4-5=-2001/911, 5-6=-2003/987, 6-7=-1793/1005, 7-8=-2042/996, 8-9=-2184/976, 9-10=-2290/953  
BOT CHORD 19-28=-528/1847, 18-28=-528/1847, 17-18=-374/1772, 17-29=-374/1772, 16-29=-374/1772, 16-30=-606/2017, 15-30=-606/2017  
WEBS 3-21=-1986/957, 3-19=-655/2084, 5-19=-466/352, 6-18=-33/357, 6-16=-161/265, 7-16=-42/383, 8-16=-357/268, 8-15=-350/324, 10-15=-684/2075, 10-13=-1893/942

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; cantilever right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 145 lb uplift at joint 2, 322 lb uplift at joint 21, 290 lb uplift at joint 13 and 146 lb uplift at joint 11.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 15, 2018

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

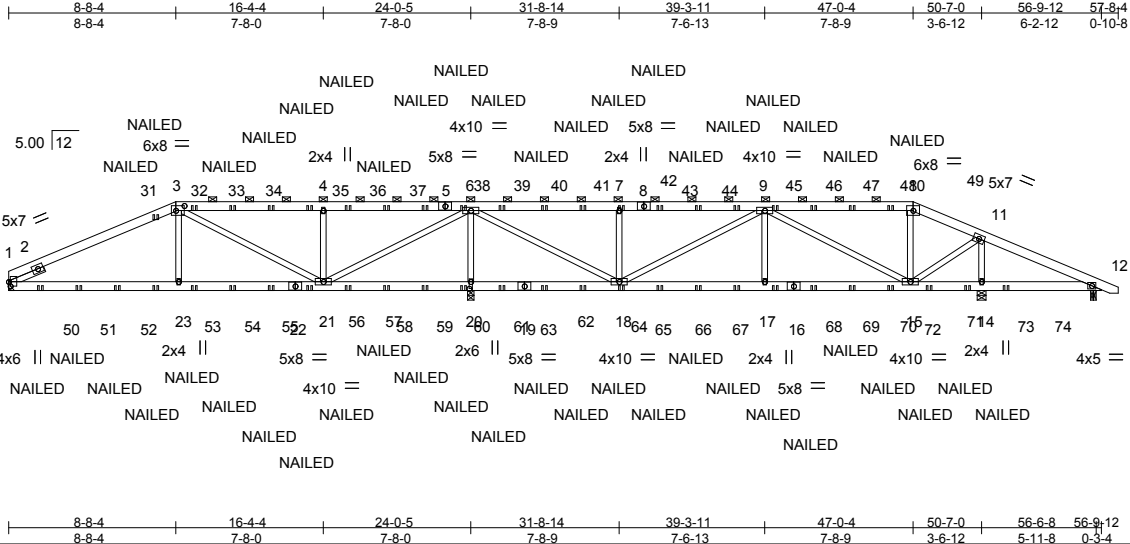
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 ANSITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road  
Edenton, NC 27932

|                |              |                          |          |          |  |
|----------------|--------------|--------------------------|----------|----------|--|
| Job<br>1010683 | Truss<br>A31 | Truss Type<br>HIP GIRDER | Qty<br>1 | Ply<br>2 | H&H-NC/Harmony/979/CarriageGlenAnderson<br>133330215 |
|----------------|--------------|--------------------------|----------|----------|--|

Builders First Source, Sumter SC 7.640 s Aug 16 2017 MiTek Industries, Inc. Mon May 14 15:53:18 2018 Page 1  
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Scale = 1:119.8

|   |                       |             |                                  |               |                         |
|---|-----------------------|-------------|----------------------------------|---------------|-------------------------|
| Plate Offsets (X,Y)-- [1:0-2-12.0-1-0], [3:0-5-4.0-3-0], [20:0-4-4.0-1-0] |                       |             |                                  |               |                         |
| <b>LOADING</b> (psf)  | <b>SPACING-</b> 2-0-0 | <b>CSI.</b> | <b>DEFL.</b> in (loc) l/defl L/d | <b>PLATES</b> | <b>GRIP</b>             |
| TCLL 20.0   | Plate Grip DOL 1.15   | TC 0.28     | Vert(LL) -0.04 17-18 >999 360    | MT20          | 244/190                 |
| TCDL 10.0   | Lumber DOL 1.15       | BC 0.31     | Vert(TL) -0.11 17-18 >999 240    |               |                         |
| BCLL 0.0 *  | Rep Stress Incr NO    | WB 0.54     | Horz(TL) 0.02 14 n/a n/a         |               |                         |
| BCDL 10.0   | Code IRC2009/TPI2007  | (Matrix-M)  | Wind(LL) 0.09 17-18 >999 240     |               | Weight: 757 lb FT = 20% |

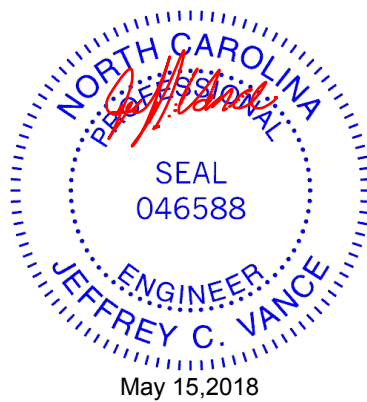
**LUMBER-**  
 TOP CHORD 2x6 SP No.2  
 BOT CHORD 2x6 SP No.2  
 WEBS 2x4 SP No.2  
 SLIDER Left 2x4 SP No.2 1-11-12

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-10.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS.** All bearings Mechanical except (jt=length) 20=0-4-0, 14=0-5-8, 12=0-3-8.  
 (lb) - Max Horz 1=-80(LC 7)  
 Max Uplift All uplift 100 lb or less at joint(s) except 1=-763(LC 6), 20=-2597(LC 4), 14=-1582(LC 7), 12=-220(LC 11)  
 Max Grav All reactions 250 lb or less at joint(s) 12 except 1=1254(LC 11), 20=3385(LC 1), 14=2150(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-1017/697, 2-31=-1698/1199, 3-31=-1612/1163, 3-32=-1017/797, 32-33=-1017/797, 33-34=-1017/797, 34-35=-1017/797, 4-35=-1017/797, 4-36=-1017/797, 36-37=-1017/797, 37-38=-1017/797, 5-38=-1017/797, 5-39=-1017/797, 6-39=-1017/797, 6-40=-1075/874, 40-41=-1075/874, 41-42=-1075/874, 7-42=-1075/874, 7-8=-1075/874, 8-43=-1075/874, 43-44=-1075/874, 44-45=-1075/874, 9-45=-1075/874, 9-46=-590/497, 46-47=-590/497, 47-48=-590/497, 48-49=-590/497, 10-49=-590/497, 10-11=-692/519, 11-12=-648/875  
 BOT CHORD 1-50=-1062/1566, 50-51=-1062/1566, 51-52=-1062/1566, 52-53=-1062/1566, 23-53=-1062/1566, 23-54=-1067/1578, 54-55=-1067/1578, 55-56=-1067/1578, 22-56=-1067/1578, 22-57=-1067/1578, 21-57=-1067/1578, 21-58=-1182/972, 58-59=-1182/972, 59-60=-1182/972, 60-61=-1182/972, 20-61=-1182/972, 20-62=-1182/972, 19-62=-1182/972, 19-63=-1182/972, 63-64=-1182/972, 18-64=-1182/972, 18-65=-1268/1728, 65-66=-1268/1728, 66-67=-1268/1728, 17-67=-1268/1728, 17-68=-1268/1728, 16-68=-1268/1728, 16-69=-1268/1728, 69-70=-1268/1728, 70-71=-1268/1728, 15-71=-1268/1728, 15-72=-765/631, 72-73=-765/631, 14-73=-765/631, 14-74=-765/631, 12-74=-765/631  
 WEBS 3-23=-134/492, 3-21=-642/417, 4-21=-684/731, 6-21=-1854/2450, 6-20=-3064/2531, 6-18=-1953/2535, 7-18=-617/654, 9-18=-757/584, 9-17=-23/471, 9-15=-1314/1034, 11-15=-1223/1637, 11-14=-1832/1236

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-05; 100mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); cantilever right exposed; end vertical left and right exposed; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



|         |       |            |     |     |   |           |
|---------|-------|------------|-----|-----|---|-----------|
| Job     | Truss | Truss Type | Qty | Ply | H&H-NC/Harmony/979/CarriageGlenAnderson | I33330215 |
| 1010683 | A31   | HIP GIRDER | 1   | 2   |   |           |

Builders First Source, Sumter SC

7.640 s Aug 16 2017 MiTek Industries, Inc. Mon May 14 15:53:18 2018 Page 2  
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**NOTES-**

- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 763 lb uplift at joint 1, 2597 lb uplift at joint 20, 1582 lb uplift at joint 14 and 220 lb uplift at joint 12.
- 11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails. For more details refer to MiTek's ST-TOENAIL Detail.

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-10=-60, 10-13=-60, 24-28=-20

Concentrated Loads (lb)

Vert: 7=-52(F) 18=-28(F) 31=-52(F) 32=-52(F) 33=-52(F) 34=-52(F) 35=-52(F) 36=-52(F) 37=-52(F) 38=-52(F) 39=-52(F) 40=-52(F) 41=-52(F) 42=-52(F) 43=-52(F) 44=-52(F) 45=-52(F) 46=-52(F) 47=-52(F) 48=-52(F) 49=-52(F) 50=-175(F) 51=-51(F) 52=-87(F) 53=-28(F) 54=-28(F) 55=-28(F) 56=-28(F) 57=-28(F) 58=-28(F) 59=-28(F) 60=-28(F) 61=-28(F) 62=-28(F) 63=-28(F) 64=-28(F) 65=-28(F) 66=-28(F) 67=-28(F) 68=-28(F) 69=-28(F) 70=-28(F) 71=-28(F) 72=-87(F) 73=-51(F) 74=-76(F)

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

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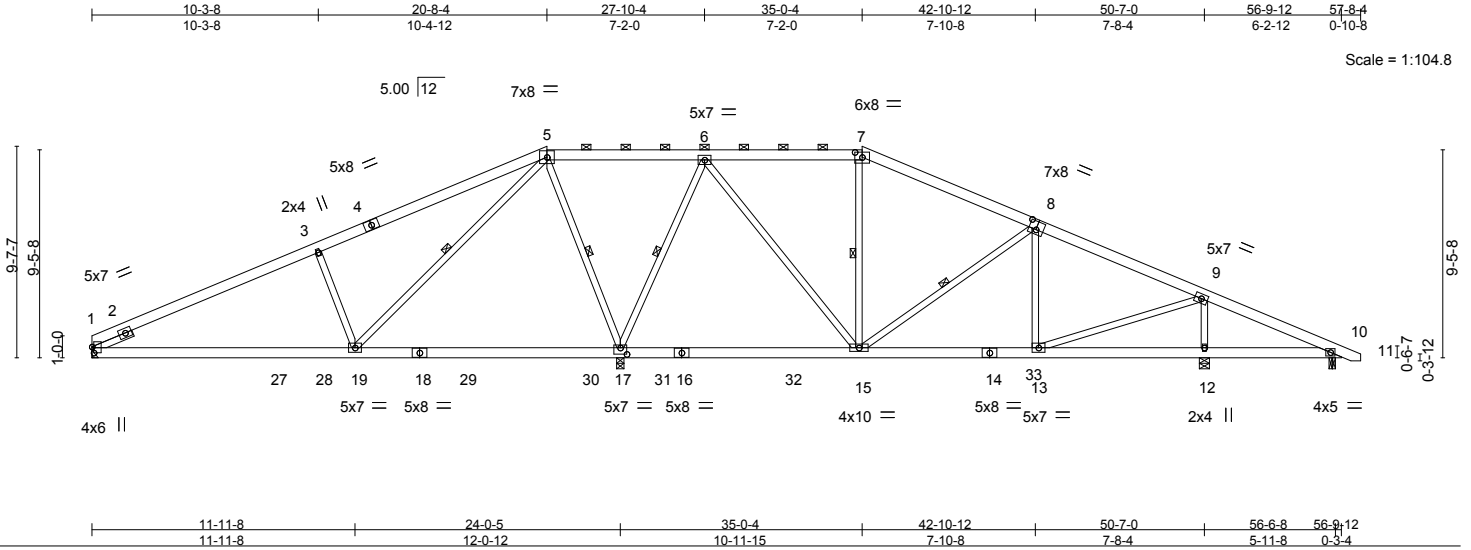




|                |              |                   |          |          |  |
|----------------|--------------|-------------------|----------|----------|--|
| Job<br>1010683 | Truss<br>A34 | Truss Type<br>HIP | Qty<br>1 | Ply<br>1 | H&H-NC/Harmony/979/CarriageGlenAnderson<br>133330218 |
|----------------|--------------|-------------------|----------|----------|--|

Builders First Source, Sumter SC

7.640 s Aug 16 2017 MiTek Industries, Inc. Mon May 14 15:53:21 2018 Page 1  
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| LOADING (psf) | SPACING-             | CSI.       | DEFL.    | in (loc) | l/defl | L/d  | PLATES         | GRIP     |
|---------------|----------------------|------------|----------|----------|--------|------|----------------|----------|
| TCLL 20.0     | 2-0-0                | TC 0.46    | Vert(LL) | -0.15    | 17-19  | >999 | MT20           | 244/190  |
| TCDL 10.0     | Lumber DOL 1.15      | BC 0.59    | Vert(TL) | -0.27    | 17-19  | >999 |                |          |
| BCLL 0.0 *    | Rep Stress Incr YES  | WB 0.66    | Horz(TL) | 0.02     | 1      | n/a  |                |          |
| BCDL 10.0     | Code IRC2009/TPI2007 | (Matrix-S) | Wind(LL) | 0.06     | 19-22  | >999 |                |          |
|               |                      |            |          |          |        |      | Weight: 398 lb | FT = 20% |

| LUMBER-                         | BRACING-   |
|---------------------------------|--|
| TOP CHORD 2x6 SP No.2           | TOP CHORD Structural wood sheathing directly applied, except |
| BOT CHORD 2x6 SP No.2           | 2-0-0 oc purlins (6-0-0 max.): 5-7.                          |
| WEBS 2x4 SP No.3 *Except*       | BOT CHORD Rigid ceiling directly applied.                    |
| 5-19: 2x4 SP No.2               | WEBS 1 Row at midpt 5-19, 5-17, 6-17, 7-15, 8-15             |
| SLIDER Left 2x4 SP No.3 1-11-12 |  |

**REACTIONS.** All bearings Mechanical except (jt=length) 17=0-4-0, 12=0-5-8, 10=0-3-8.  
 (lb) - Max Horz 1=-144(LC 9)  
 Max Uplift All uplift 100 lb or less at joint(s) except 1=-113(LC 8), 17=-169(LC 7), 12=-254(LC 9), 10=-152(LC 9)  
 Max Grav All reactions 250 lb or less at joint(s) 10 except 1=792(LC 13), 17=2532(LC 2), 12=1249(LC 14)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-658/9, 2-3=-1111/536, 3-4=-937/565, 4-5=-804/607, 5-6=0/526, 6-7=-567/456, 7-8=-709/421, 8-9=-1019/467  
 BOT CHORD 1-27=-314/956, 27-28=-314/956, 19-28=-314/956, 18-19=-155/255, 18-29=-155/255, 29-30=-155/255, 17-30=-155/255, 15-33=-159/859, 14-33=-159/859, 13-14=-159/859  
 WEBS 3-19=-618/554, 5-19=-534/1202, 5-17=-1128/570, 6-17=-1177/535, 6-15=-267/844, 8-15=-382/279, 9-13=-221/878, 9-12=-1066/566

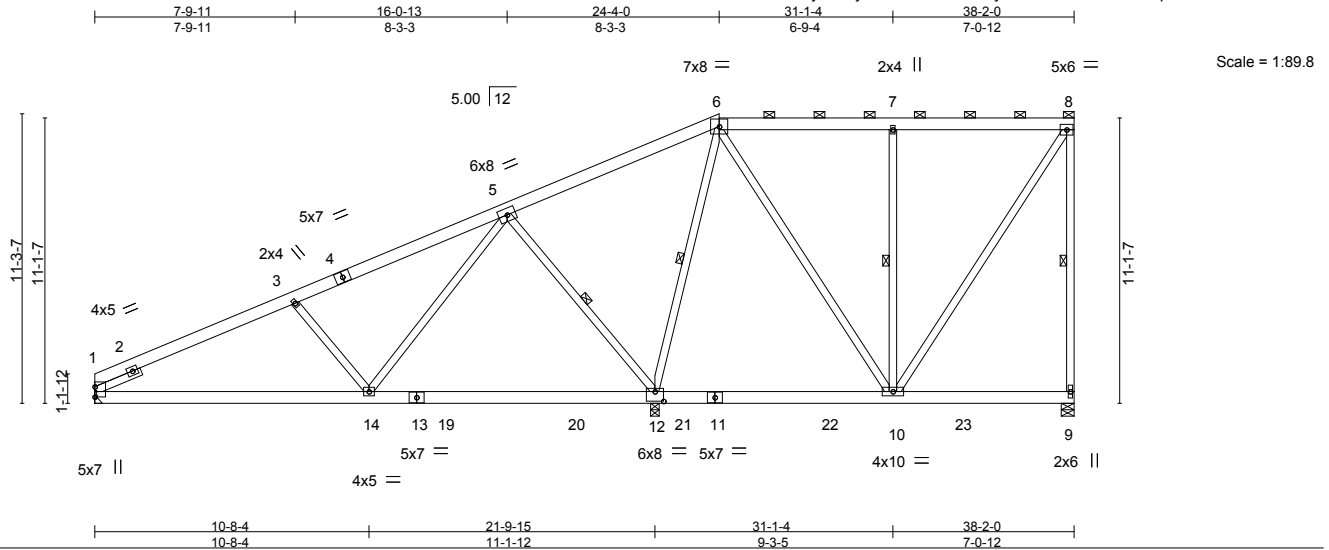
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; cantilever right exposed; end vertical right exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
  - 4) Provide adequate drainage to prevent water ponding.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 7) Refer to girder(s) for truss to truss connections.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 113 lb uplift at joint 1, 169 lb uplift at joint 17, 254 lb uplift at joint 12 and 152 lb uplift at joint 10.
  - 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
  - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



|                |              |                        |          |          |  |
|----------------|--------------|------------------------|----------|----------|--|
| Job<br>1010683 | Truss<br>A36 | Truss Type<br>HALF HIP | Qty<br>1 | Ply<br>1 | H&H-NC/Harmony/979/CarriageGlenAnderson<br>133330219 |
|----------------|--------------|------------------------|----------|----------|--|

Builders First Source, Sumter SC

7.640 s Aug 16 2017 MiTek Industries, Inc. Mon May 14 15:53:22 2018 Page 1  
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| LOADING (psf) | SPACING-             | 2-0-0 | CSI.       | DEFL.    | in (loc) | l/defl | L/d  | PLATES         | GRIP     |
|---------------|----------------------|-------|------------|----------|----------|--------|------|----------------|----------|
| TCLL 20.0     | Plate Grip DOL       | 1.15  | TC 0.36    | Vert(LL) | -0.12    | 12-14  | >999 | MT20           | 244/190  |
| TCDL 10.0     | Lumber DOL           | 1.15  | BC 0.47    | Vert(TL) | -0.22    | 12-14  | >999 |                |          |
| BCLL 0.0 *    | Rep Stress Incr      | YES   | WB 0.61    | Horz(TL) | 0.01     | 12     | n/a  |                |          |
| BCDL 10.0     | Code IRC2009/TPI2007 |       | (Matrix-S) | Wind(LL) | 0.03     | 14-17  | >999 |                |          |
|               |                      |       |            |          |          |        |      | Weight: 302 lb | FT = 20% |

| LUMBER-   | BRACING-  |
|---|---|
| TOP CHORD 2x6 SP No.2                                   | TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8. |
| BOT CHORD 2x6 SP No.2                                   | BOT CHORD Rigid ceiling directly applied.   |
| WEBS 2x4 SP No.3 *Except*<br>8-9,6-10,8-10: 2x4 SP No.2 | WEBS 1 Row at midpt 8-9, 5-12, 6-12, 7-10   |
| SLIDER Left 2x4 SP No.3 1-11-12                         |   |

**REACTIONS.** (lb/size) 9=441/0-6-0, 1=720/Mechanical, 12=1881/0-4-0  
 Max Horz 1=359(LC 8)  
 Max Uplift 9=-110(LC 6), 1=-39(LC 8), 12=-234(LC 8)  
 Max Grav 9=566(LC 16), 1=720(LC 1), 12=1980(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-459/0, 2-3=-947/247, 3-4=-751/138, 4-5=-576/173, 5-6=-198/451, 8-9=-475/230  
 BOT CHORD 1-14=-691/874, 13-14=-287/208, 13-19=-287/208, 19-20=-287/208, 12-20=-287/208  
 WEBS 3-14=-428/419, 5-14=-246/700, 5-12=-889/600, 6-12=-985/463, 6-10=-99/514,  
 7-10=-476/305, 8-10=-135/364

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
  - 4) Provide adequate drainage to prevent water ponding.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 7) Refer to girder(s) for truss to truss connections.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 110 lb uplift at joint 9, 39 lb uplift at joint 1 and 234 lb uplift at joint 12.
  - 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
  - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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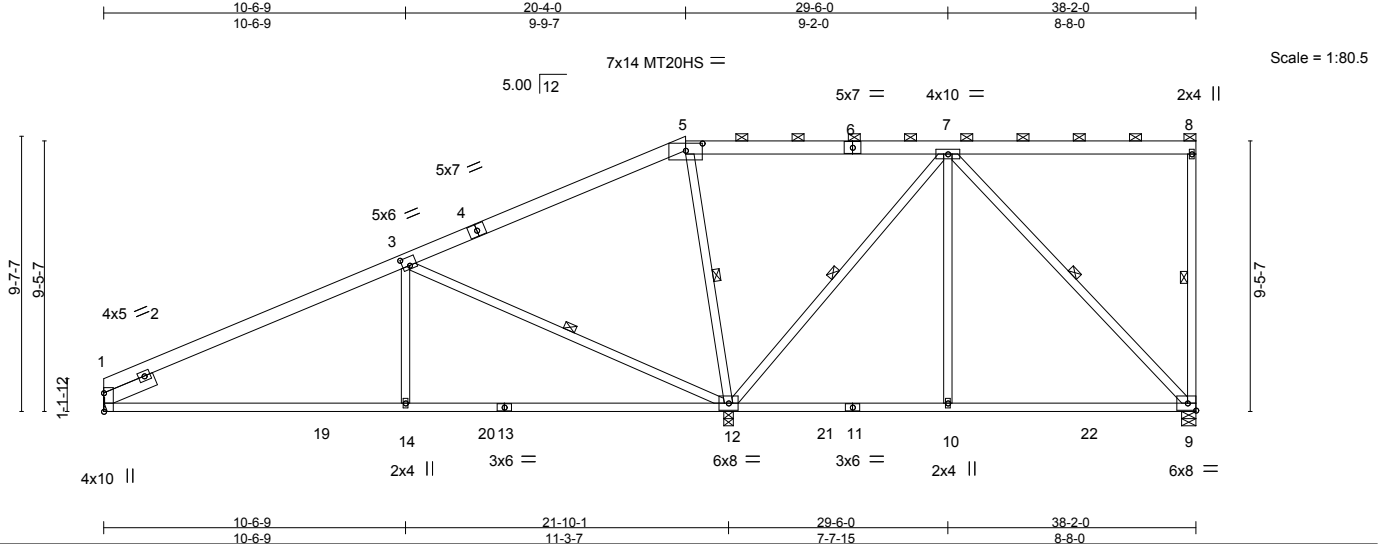


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|                |              |                        |          |          |  |
|----------------|--------------|------------------------|----------|----------|--|
| Job<br>1010683 | Truss<br>A37 | Truss Type<br>Half Hip | Qty<br>1 | Ply<br>1 | H&H-NC/Harmony/979/CarriageGlenAnderson<br>133330220 |
|----------------|--------------|------------------------|----------|----------|--|

Builders First Source, Sumter SC

7.640 s Aug 16 2017 MiTek Industries, Inc. Mon May 14 15:53:22 2018 Page 1  
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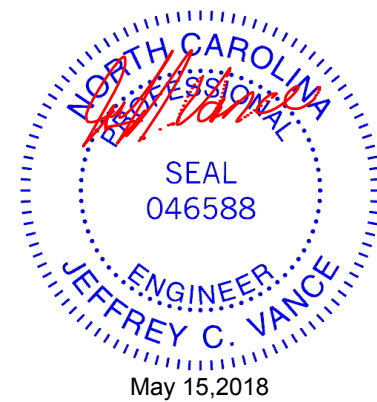
| LOADING (psf) | SPACING-             | 2-0-0 | CSI.       | DEFL.    | in (loc) | l/defl | L/d  | PLATES | GRIP                    |
|---------------|----------------------|-------|------------|----------|----------|--------|------|--------|-------------------------|
| TCLL 20.0     | Plate Grip DOL       | 1.15  | TC 0.52    | Vert(LL) | -0.29    | 12-14  | >918 | MT20   | 244/190                 |
| TCDL 10.0     | Lumber DOL           | 1.15  | BC 0.82    | Vert(TL) | -0.72    | 12-14  | >366 | MT20HS | 187/143                 |
| BCLL 0.0 *    | Rep Stress Incr      | YES   | WB 0.90    | Horz(TL) | 0.04     | 9      | n/a  |        |                         |
| BCDL 10.0     | Code IRC2009/TPI2007 |       | (Matrix-S) | Wind(LL) | 0.07     | 14-17  | >999 |        | Weight: 254 lb FT = 20% |

| LUMBER-   | BRACING-  |
|---|---|
| TOP CHORD 2x6 SP No.2                               | TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-8. |
| BOT CHORD 2x4 SP No.2 *Except*<br>1-13: 2x4 SP No.1 | BOT CHORD Rigid ceiling directly applied.   |
| WEBS 2x4 SP No.3 *Except*<br>8-9: 2x4 SP No.2       | WEBS 1 Row at midpt 8-9, 3-12, 5-12, 7-12, 7-9  |
| SLIDER Left 2x6 SP No.2 1-11-12                     |   |

**REACTIONS.** (lb/size) 9=474/0-6-0, 1=747/Mechanical, 12=1820/0-4-0  
Max Horz 1=299(LC 8)  
Max Uplift 9=-138(LC 6), 1=-92(LC 8), 12=-112(LC 7)  
Max Grav 9=545(LC 14), 1=747(LC 1), 12=1927(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-395/0, 2-3=-886/353, 4-5=0/371, 5-6=0/359, 6-7=0/357  
BOT CHORD 1-19=-660/818, 14-19=-660/818, 14-20=-660/818, 13-20=-660/818, 12-13=-660/818,  
12-21=-160/261, 11-21=-160/261, 10-11=-160/261, 10-22=-160/261, 9-22=-160/261  
WEBS 3-14=0/457, 3-12=-1162/610, 5-12=-612/368, 7-12=-880/179, 7-10=0/464, 7-9=-359/233

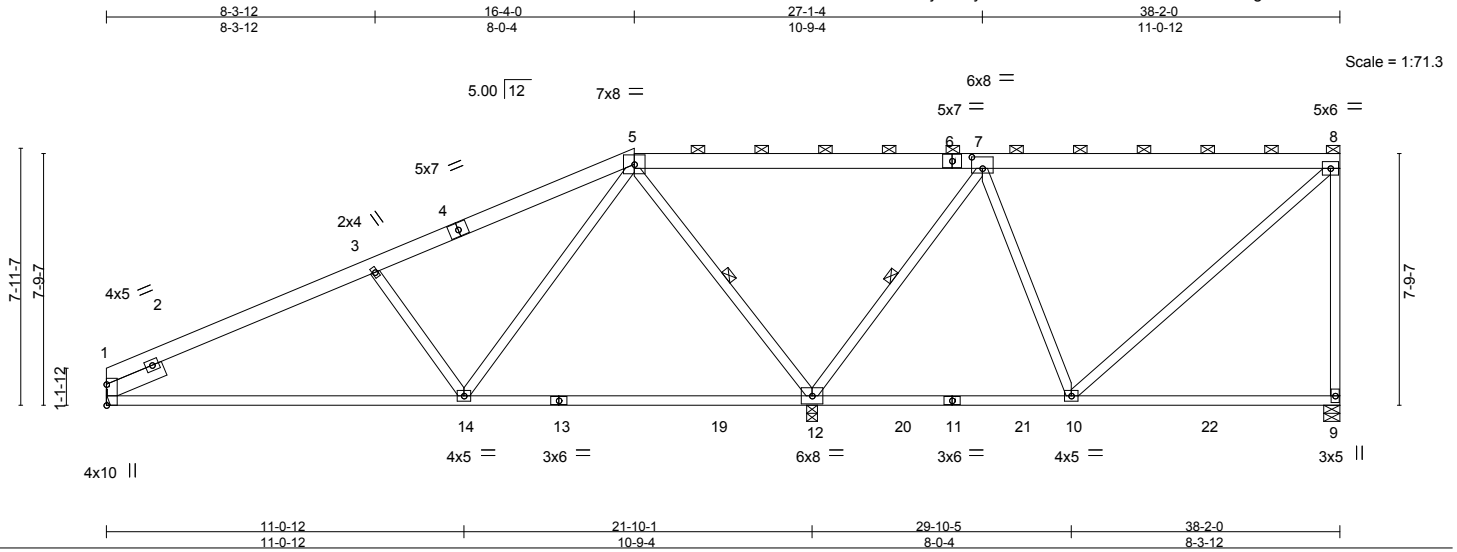
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
  - Provide adequate drainage to prevent water ponding.
  - All plates are MT20 plates unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 138 lb uplift at joint 9, 92 lb uplift at joint 1 and 112 lb uplift at joint 12.
  - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



|                |              |                        |          |          |  |
|----------------|--------------|------------------------|----------|----------|--|
| Job<br>1010683 | Truss<br>A38 | Truss Type<br>Half Hip | Qty<br>1 | Ply<br>1 | H&H-NC/Harmony/979/CarriageGlenAnderson<br>133330221 |
|----------------|--------------|------------------------|----------|----------|--|

Builders First Source, Sumter SC

7.640 s Aug 16 2017 MiTek Industries, Inc. Mon May 14 15:53:23 2018 Page 1  
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| LOADING (psf) | SPACING-             | 2-0-0 | CSI.       | DEFL.    | in (loc)    | I/defl | L/d | PLATES         | GRIP     |
|---------------|----------------------|-------|------------|----------|-------------|--------|-----|----------------|----------|
| TCLL 20.0     | Plate Grip DOL       | 1.15  | TC 0.81    | Vert(LL) | -0.45 12-14 | >579   | 360 | MT20           | 244/190  |
| TCDL 10.0     | Lumber DOL           | 1.15  | BC 0.97    | Vert(TL) | -0.78 12-14 | >336   | 240 |                |          |
| BCLL 0.0 *    | Rep Stress Incr      | YES   | WB 0.51    | Horz(TL) | 0.02 9      | n/a    | n/a |                |          |
| BCDL 10.0     | Code IRC2009/TPI2007 |       | (Matrix-S) | Wind(LL) | 0.03 14-17  | >999   | 240 |                |          |
|               |                      |       |            |          |             |        |     | Weight: 238 lb | FT = 20% |

**LUMBER-**

TOP CHORD 2x6 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3  
 SLIDER Left 2x6 SP No.2 1-11-12

**BRACING-**

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-8.  
 BOT CHORD Rigid ceiling directly applied.  
 WEBS 1 Row at midpt 5-12, 7-12

**REACTIONS.** (lb/size) 9=432/0-6-0, 1=714/Mechanical, 12=1895/0-4-0

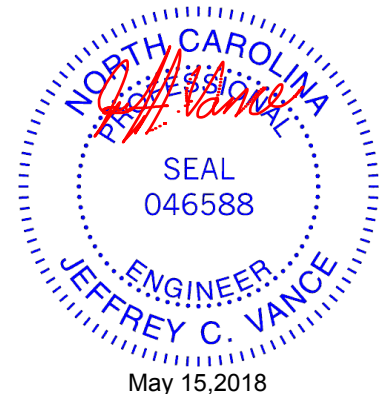
Max Horz 1=239(LC 8)  
 Max Uplift 9=-86(LC 6), 1=-64(LC 8), 12=-219(LC 7)  
 Max Grav 9=537(LC 16), 1=714(LC 1), 12=1936(LC 2)

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

TOP CHORD 1-2=-502/0, 2-3=-890/329, 3-4=-709/242, 4-5=-615/275, 5-6=-192/493, 6-7=-193/491, 8-9=-441/202  
 BOT CHORD 1-14=-569/822  
 WEBS 3-14=-439/430, 5-14=-270/726, 5-12=-1096/611, 7-12=-1008/470, 8-10=-35/260

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 86 lb uplift at joint 9, 64 lb uplift at joint 1 and 219 lb uplift at joint 12.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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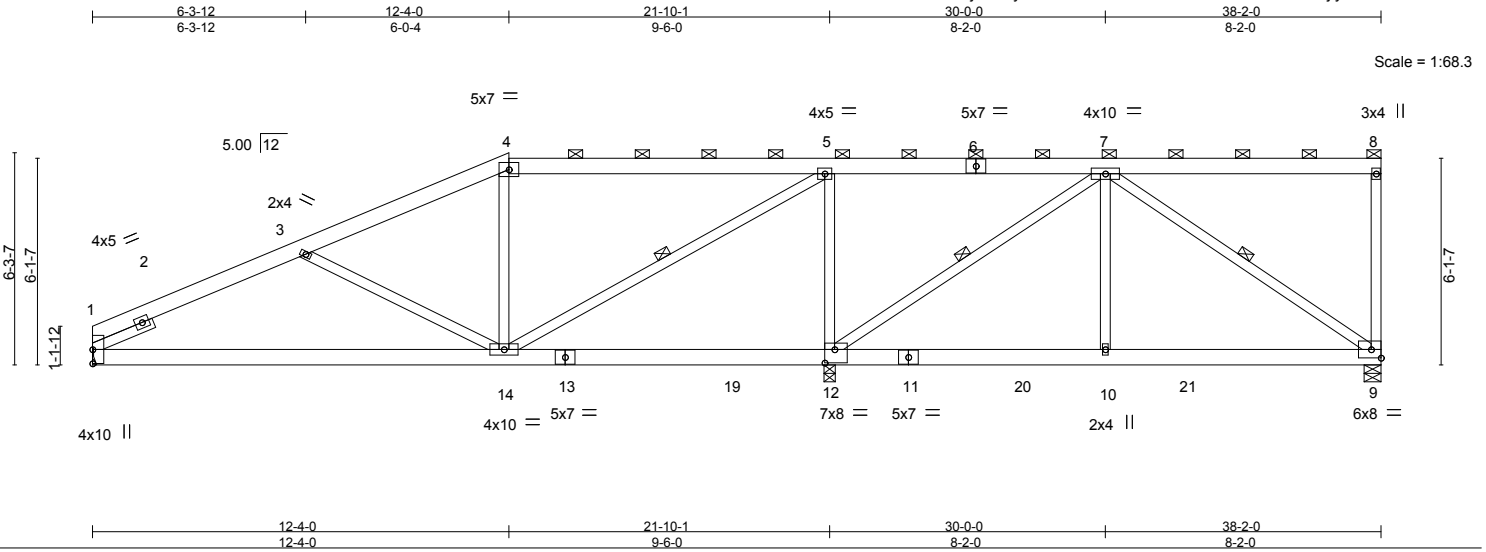


818 Soundside Road  
 Edenton, NC 27932

|                |              |                        |          |          |  |
|----------------|--------------|------------------------|----------|----------|--|
| Job<br>1010683 | Truss<br>A39 | Truss Type<br>Half Hip | Qty<br>1 | Ply<br>1 | H&H-NC/Harmony/979/CarriageGlenAnderson<br>133330222 |
|----------------|--------------|------------------------|----------|----------|--|

Builders First Source, Sumter SC

7.640 s Aug 16 2017 MiTek Industries, Inc. Mon May 14 15:53:23 2018 Page 1  
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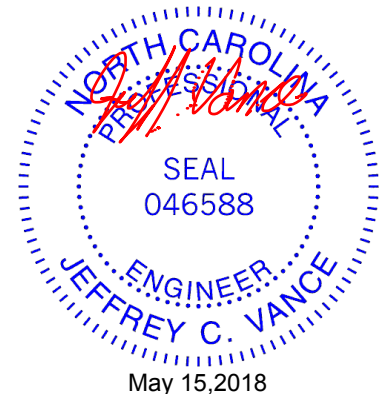
| LOADING (psf) | SPACING-             | CSI.       | DEFL.    | in (loc) | I/defl | L/d  | PLATES         | GRIP     |
|---------------|----------------------|------------|----------|----------|--------|------|----------------|----------|
| TCLL 20.0     | 2-0-0                | TC 0.48    | Vert(LL) | -0.10    | 14-17  | >999 | MT20           | 244/190  |
| TCDL 10.0     | Plate Grip DOL 1.15  | BC 0.49    | Vert(TL) | -0.26    | 14-17  | >999 |                |          |
| BCLL 0.0 *    | Lumber DOL 1.15      | WB 0.67    | Horz(TL) | 0.02     | 9      | n/a  |                |          |
| BCDL 10.0     | Rep Stress Incr YES  | (Matrix-S) | Wind(LL) | 0.03     | 14     | >999 |                |          |
|               | Code IRC2009/TPI2007 |            |          |          |        |      | Weight: 269 lb | FT = 20% |

| LUMBER-                         | BRACING-  |
|---------------------------------|---|
| TOP CHORD 2x6 SP No.2           | TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-8. |
| BOT CHORD 2x6 SP No.2           | BOT CHORD Rigid ceiling directly applied.   |
| WEBS 2x4 SP No.3                | WEBS 1 Row at midpt 5-14, 7-12, 7-9   |
| SLIDER Left 2x4 SP No.3 1-11-12 |   |

**REACTIONS.** (lb/size) 1=787/Mechanical, 9=531/0-6-0, 12=1724/0-4-0  
Max Horz 1=180(LC 8)  
Max Uplift 1=63(LC 8), 9=76(LC 6), 12=245(LC 7)  
Max Grav 1=787(LC 1), 9=569(LC 14), 12=1724(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=667/0, 2-3=1159/453, 3-4=831/265, 4-5=721/315  
BOT CHORD 1-14=603/1020, 11-12=-114/455, 11-20=-114/455, 10-20=-114/455, 10-21=-114/455, 9-21=-114/455  
WEBS 3-14=-344/335, 5-14=-495/1092, 5-12=-1123/630, 7-12=-753/278, 7-10=0/343, 7-9=-532/130

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
  - 4) Provide adequate drainage to prevent water ponding.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 7) Refer to girder(s) for truss connections.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 1, 76 lb uplift at joint 9 and 245 lb uplift at joint 12.
  - 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
  - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road  
Edenton, NC 27932

|                |              |                               |          |          |  |
|----------------|--------------|-------------------------------|----------|----------|--|
| Job<br>1010683 | Truss<br>A40 | Truss Type<br>Half Hip Girder | Qty<br>1 | Ply<br>2 | H&H-NC/Harmony/979/CarriageGlenAnderson<br>133330223 |
|----------------|--------------|-------------------------------|----------|----------|--|

Builders First Source, Sumter SC

7.640 s Aug 16 2017 MiTek Industries, Inc. Mon May 14 15:53:25 2018 Page 1  
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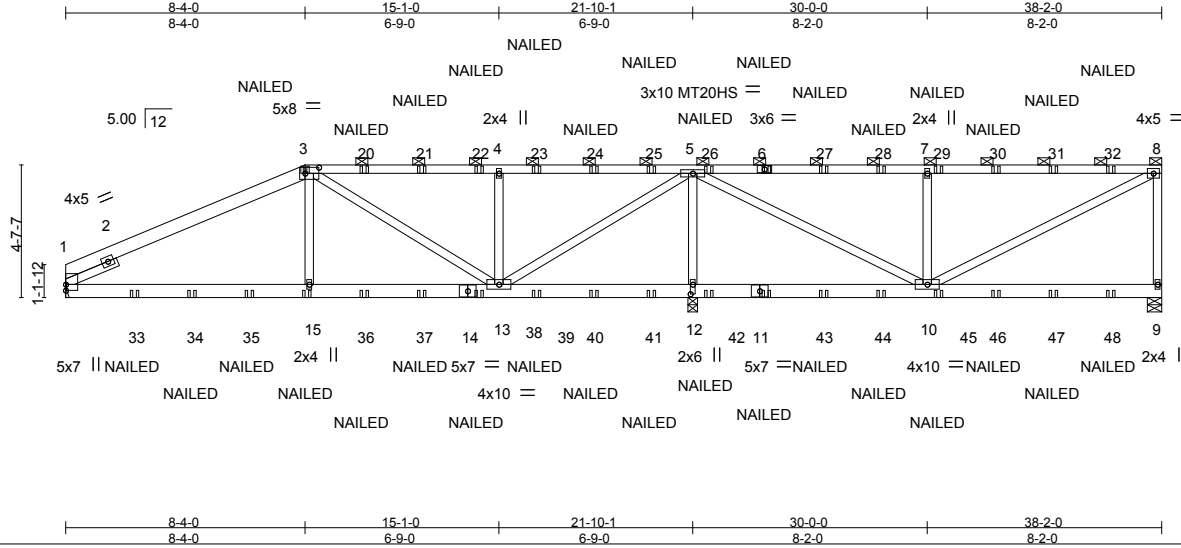


Plate Offsets (X,Y)-- [3:0-5-12,0-2-8], [12:0-4-0,0-1-0]

| LOADING (psf) | SPACING-             | 2-0-0 | CSI.       | DEFL.    | in (loc)    | l/defl | L/d | PLATES         | GRIP     |
|---------------|----------------------|-------|------------|----------|-------------|--------|-----|----------------|----------|
| TCLL 20.0     | Plate Grip DOL       | 1.15  | TC 0.69    | Vert(LL) | -0.03 15-18 | >999   | 360 | MT20           | 244/190  |
| TCDL 10.0     | Lumber DOL           | 1.15  | BC 0.28    | Vert(TL) | -0.08 15-18 | >999   | 240 | MT20HS         | 187/143  |
| BCLL 0.0 *    | Rep Stress Incr      | NO    | WB 0.37    | Horz(TL) | 0.01 12     | n/a    | n/a |                |          |
| BCDL 10.0     | Code IRC2009/TPI2007 |       | (Matrix-M) | Wind(LL) | 0.05 15-18  | >999   | 240 |                |          |
|               |                      |       |            |          |             |        |     | Weight: 470 lb | FT = 20% |

| LUMBER-  | BRACING-  |
|--|---|
| TOP CHORD 2x4 SP No.2 *Except*<br>1-3: 2x6 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-8. |
| BOT CHORD 2x6 SP No.2                              | BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.   |
| WEBS 2x4 SP No.2                                   |   |
| SLIDER Left 2x4 SP No.2 1-11-12                    |   |

**REACTIONS.** (lb/size) 1=1112/Mechanical, 9=729/0-6-0, 12=2646/0-4-0  
Max Horz 1=128(LC 6)  
Max Uplift 1=-571(LC 6), 9=-533(LC 5), 12=-2015(LC 5)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-653/403, 2-3=-1436/901, 3-20=-929/655, 20-21=-929/655, 21-22=-929/655, 4-22=-929/655, 4-23=-929/655, 23-24=-929/655, 24-25=-929/655, 5-25=-929/655, 5-26=-678/519, 6-26=-678/519, 6-27=-678/519, 27-28=-678/519, 7-28=-678/519, 7-29=-678/519, 29-30=-678/519, 30-31=-678/519, 31-32=-678/519, 8-32=-678/519, 8-9=-610/519  
BOT CHORD 1-33=-869/1318, 33-34=-869/1318, 34-35=-869/1318, 15-35=-869/1318, 15-36=-873/1330, 36-37=-873/1330, 14-37=-873/1330, 14-38=-873/1330, 13-38=-873/1330, 13-39=-671/542, 39-40=-671/542, 40-41=-671/542, 12-41=-671/542, 12-42=-671/542, 11-42=-671/542, 11-43=-671/542, 43-44=-671/542, 10-44=-671/542  
WEBS 3-15=-112/446, 3-13=-473/257, 4-13=-594/637, 5-13=-1382/1890, 5-12=-2342/1953, 5-10=-1195/1520, 7-10=-763/809, 8-10=-530/704

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.  
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
  - Provide adequate drainage to prevent water ponding.
  - All plates are MT20 plates unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 571 lb uplift at joint 1, 533 lb uplift at joint 9 and 2015 lb uplift at joint 12.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

3) NAILER plates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails. For more details refer to MiTek's ST-TOENAIL Detail.



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ENGINEERING BY  
**TRENCO**  
A MiTek Affiliate

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|                |              |                               |          |                 |  |
|----------------|--------------|-------------------------------|----------|-----------------|--|
| Job<br>1010683 | Truss<br>A40 | Truss Type<br>Half Hip Girder | Qty<br>1 | Ply<br><b>2</b> | H&H-NC/Harmony/979/CarriageGlenAnderson<br>I33330223 |
|----------------|--------------|-------------------------------|----------|-----------------|--|

Builders First Source, Sumter SC

7.640 s Aug 16 2017 MiTek Industries, Inc. Mon May 14 15:53:25 2018 Page 2  
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**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-8=-60, 9-16=-20

Concentrated Loads (lb)

Vert: 3=-29(B) 6=-52(B) 15=-31(B) 11=-28(B) 20=-52(B) 21=-52(B) 22=-52(B) 23=-52(B) 24=-52(B) 25=-52(B) 26=-52(B) 27=-52(B) 28=-52(B) 29=-52(B) 30=-52(B)  
31=-52(B) 32=-52(B) 33=-170(B) 34=-34(B) 35=-60(B) 36=-28(B) 37=-28(B) 38=-28(B) 39=-28(B) 40=-28(B) 41=-28(B) 42=-28(B) 43=-28(B) 44=-28(B) 45=-28(B)  
46=-28(B) 47=-28(B) 48=-28(B)

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

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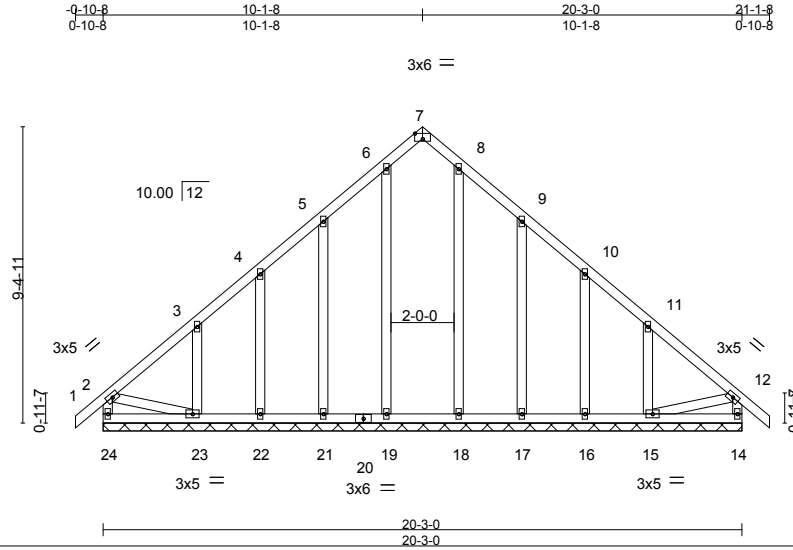
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Edenton, NC 27932



|                |              |                     |          |          |  |
|----------------|--------------|---------------------|----------|----------|--|
| Job<br>1010683 | Truss<br>B01 | Truss Type<br>GABLE | Qty<br>1 | Ply<br>1 | H&H-NC/Harmony/979/CarriageGlenAnderson<br>133330224 |
|----------------|--------------|---------------------|----------|----------|--|

Builders First Source, Sumter SC

7.640 s Aug 16 2017 MiTek Industries, Inc. Mon May 14 15:53:25 2018 Page 1  
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Scale = 1:73.0

Plate Offsets (X,Y)-- [7:0-3-0,Edge]

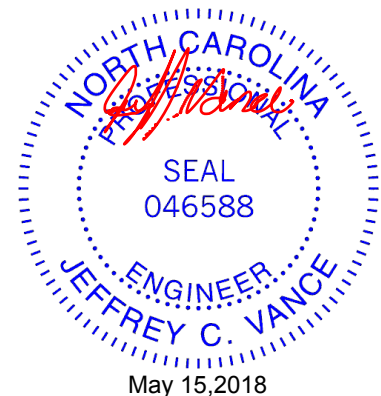
| LOADING (psf) | SPACING-             | 2-0-0 | CSI.     | DEFL.    | in (loc) | l/defl | L/d | PLATES         | GRIP     |         |
|---------------|----------------------|-------|----------|----------|----------|--------|-----|----------------|----------|---------|
| TCLL 20.0     | Plate Grip DOL       | 1.15  | TC 0.11  | Vert(LL) | -0.00    | 12     | n/r | 120            | MT20     | 244/190 |
| TCDL 10.0     | Lumber DOL           | 1.15  | BC 0.08  | Vert(TL) | -0.00    | 13     | n/r | 120            |          |         |
| BCLL 0.0 *    | Rep Stress Incr      | YES   | WB 0.13  | Horz(TL) | 0.01     | 14     | n/a | n/a            |          |         |
| BCDL 10.0     | Code IRC2009/TPI2007 |       | (Matrix) |          |          |        |     |                |          |         |
|               |                      |       |          |          |          |        |     | Weight: 147 lb | FT = 20% |         |

| LUMBER-  | BRACING-  |
|--|---|
| TOP CHORD 2x4 SP No.2                                | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.2                                | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.                                  |
| WEBS 2x4 SP No.2 *Except*<br>2-23,12-15: 2x4 SP No.3 |   |
| OTHERS 2x4 SP No.3                                   |   |

**REACTIONS.** All bearings 20-3-0.  
(lb) - Max Horz 24=-369(LC 6)  
Max Uplift All uplift 100 lb or less at joint(s) 24, 14, 19, 18 except 21=-156(LC 8), 22=-111(LC 8), 23=-255(LC 8), 17=-159(LC 9), 16=-111(LC 9), 15=-251(LC 9)  
Max Grav All reactions 250 lb or less at joint(s) 24, 14, 19, 21, 22, 23, 18, 17, 16, 15

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-342/122, 11-12=-325/82  
BOT CHORD 23-24=-341/370, 22-23=-60/384, 21-22=-60/384, 20-21=-60/384, 19-20=-60/384, 18-19=-60/384, 17-18=-60/384, 16-17=-60/384, 15-16=-60/384  
WEBS 2-23=-93/371, 12-15=-81/365

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24, 14, 19, 18 except (jt=lb) 21=156, 22=111, 23=255, 17=159, 16=111, 15=251.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.



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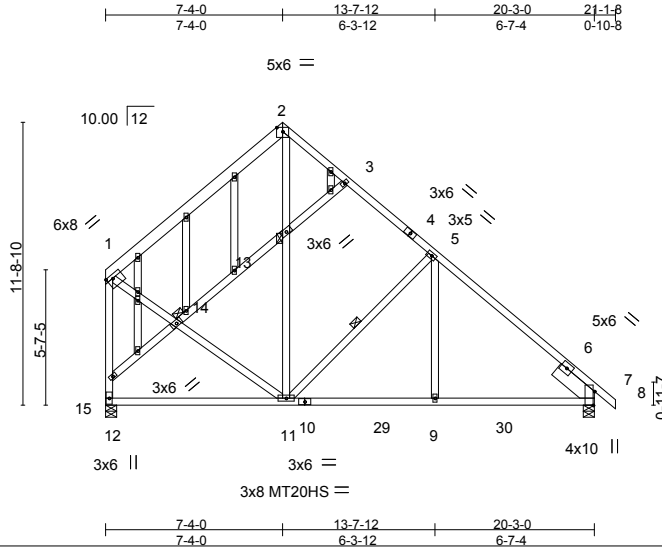


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|                |              |                     |          |          |  |
|----------------|--------------|---------------------|----------|----------|--|
| Job<br>1010683 | Truss<br>C01 | Truss Type<br>GABLE | Qty<br>1 | Ply<br>1 | H&H-NC/Harmony/979/CarriageGlenAnderson<br>I33330225 |
|----------------|--------------|---------------------|----------|----------|--|

Builders First Source, Sumter SC

7.640 s Aug 16 2017 MiTek Industries, Inc. Mon May 14 15:53:26 2018 Page 1  
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Scale: 1/8"=1'

Plate Offsets (X,Y)-- [1:0-3-0-0-1-12], [7:0-6-14,Edge]

| LOADING (psf) | SPACING-             | 2-0-0 | CSI.       | DEFL.    | in (loc)    | l/defl | L/d | PLATES         | GRIP     |
|---------------|----------------------|-------|------------|----------|-------------|--------|-----|----------------|----------|
| TCLL 20.0     | Plate Grip DOL       | 1.15  | TC 0.47    | Vert(LL) | -0.07 11-12 | >999   | 360 | MT20           | 244/190  |
| TCDL 10.0     | Lumber DOL           | 1.15  | BC 0.44    | Vert(TL) | -0.17 11-12 | >999   | 240 | MT20HS         | 187/143  |
| BCLL 0.0 *    | Rep Stress Incr      | YES   | WB 0.16    | Horz(TL) | 0.04 7      | n/a    | n/a |                |          |
| BCDL 10.0     | Code IRC2009/TPI2007 |       | (Matrix-S) | Wind(LL) | 0.07 9-27   | >999   | 240 |                |          |
|               |                      |       |            |          |             |        |     | Weight: 182 lb | FT = 20% |

**LUMBER-**

TOP CHORD 2x4 SP No.2 \*Except\*  
1-2: 2x6 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3  
OTHERS 2x4 SP No.3  
SLIDER Right 2x8 SP DSS 1-11-12

**BRACING-**

TOP CHORD Structural wood sheathing directly applied, except end verticals.  
BOT CHORD Rigid ceiling directly applied.  
WEBS 1 Row at midpt 5-11  
JOINTS 1 Brace at Jt(s): 13, 14

**REACTIONS.**

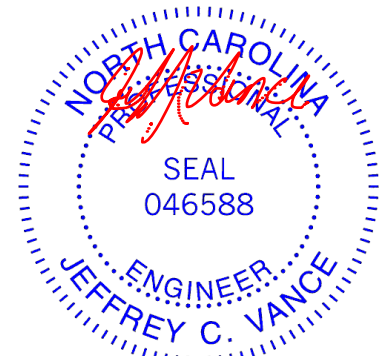
(lb/size) 12=803/0-5-8, 7=858/0-5-8  
Max Horz 12=-415(LC 6)  
Max Uplift 12=-258(LC 9), 7=-234(LC 9)

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

TOP CHORD 1-2=-526/236, 2-3=-422/307, 3-4=-488/296, 4-5=-578/273, 5-6=-914/278, 6-7=-337/0,  
12-15=-730/313, 1-15=-670/271  
BOT CHORD 11-12=-196/372, 10-11=-38/635, 10-29=-38/635, 9-29=-38/635, 9-30=-38/635,  
7-30=-38/635  
WEBS 11-13=-97/314, 2-13=-96/304, 5-11=-389/328, 5-9=0/291, 1-14=-57/352, 11-14=-58/353

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=258, 7=234.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



May 15, 2018

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

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|                |              |                      |          |          |  |
|----------------|--------------|----------------------|----------|----------|--|
| Job<br>1010683 | Truss<br>C03 | Truss Type<br>COMMON | Qty<br>7 | Ply<br>1 | H&H-NC/Harmony/979/CarriageGlenAnderson<br>I33330226 |
|----------------|--------------|----------------------|----------|----------|--|

Builders First Source, Sumter SC

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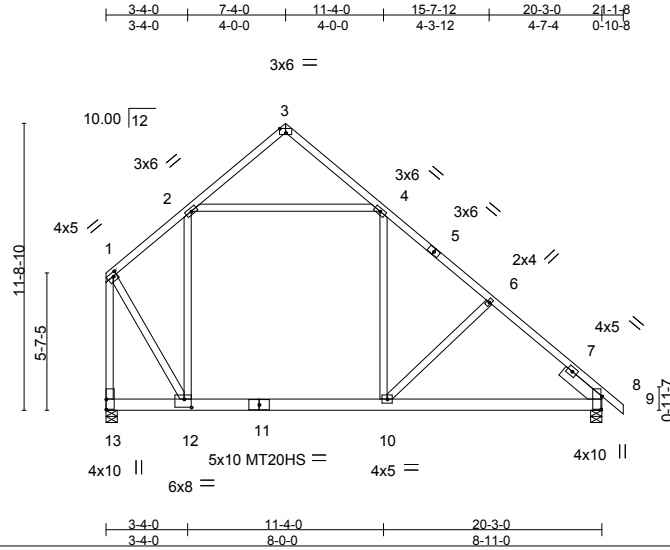


Plate Offsets (X,Y)-- [1:0-2-0-0-1-12], [3:0-3-0-Edge], [8:0-6-6-0-0-7], [12:0-3-8-0-4-0]

| LOADING (psf) | SPACING-             | 2-0-0 | CSI.       | DEFL.    | in (loc) | I/defl | L/d  | PLATES         | GRIP     |
|---------------|----------------------|-------|------------|----------|----------|--------|------|----------------|----------|
| TCLL 20.0     | Plate Grip DOL       | 1.15  | TC 0.67    | Vert(LL) | -0.25    | 10-16  | >967 | MT20           | 244/190  |
| TCDL 10.0     | Lumber DOL           | 1.15  | BC 0.64    | Vert(TL) | -0.61    | 10-16  | >396 | MT20HS         | 187/143  |
| BCLL 0.0 *    | Rep Stress Incr      | NO    | WB 0.41    | Horz(TL) | -0.05    | 8      | n/a  |                |          |
| BCDL 10.0     | Code IRC2009/TPI2007 |       | (Matrix-M) | Wind(LL) | 0.36     | 10-16  | >662 |                |          |
|               |                      |       |            |          |          |        |      | Weight: 152 lb | FT = 20% |

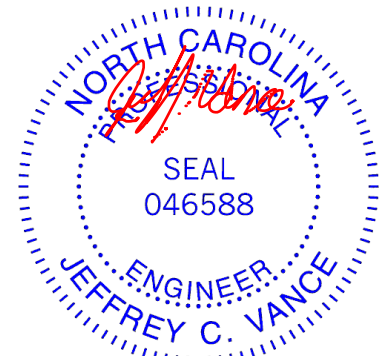
**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP DSS \*Except\*  
8-11: 2x6 SP No.1  
WEBS 2x4 SP No.3  
SLIDER Right 2x6 SP No.2 1-11-12

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS.** (lb/size) 13=803/0-5-8, 8=858/0-5-8  
Max Horz 13=-439(LC 6)  
Max Uplift 13=-80(LC 9), 8=-102(LC 9)  
Max Grav 13=857(LC 2), 8=858(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-610/322, 2-3=-276/127, 4-5=-610/321, 5-6=-709/305, 6-7=-745/314, 7-8=-819/172,  
1-13=-1185/439  
BOT CHORD 12-13=-251/394, 11-12=-40/468, 10-11=-40/468, 8-10=-81/630  
WEBS 1-12=-350/924, 2-4=-363/327, 6-10=-277/272

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
  - 4) All plates are MT20 plates unless otherwise indicated.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 8=102.
  - 8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.



May 15, 2018

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

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|                |               |                      |          |          |  |
|----------------|---------------|----------------------|----------|----------|--|
| Job<br>1010683 | Truss<br>C03A | Truss Type<br>COMMON | Qty<br>2 | Ply<br>1 | H&H-NC/Harmony/979/CarriageGlenAnderson<br>133330227 |
|----------------|---------------|----------------------|----------|----------|--|

Builders First Source, Sumter SC

7.640 s Aug 16 2017 MiTek Industries, Inc. Mon May 14 15:53:27 2018 Page 1  
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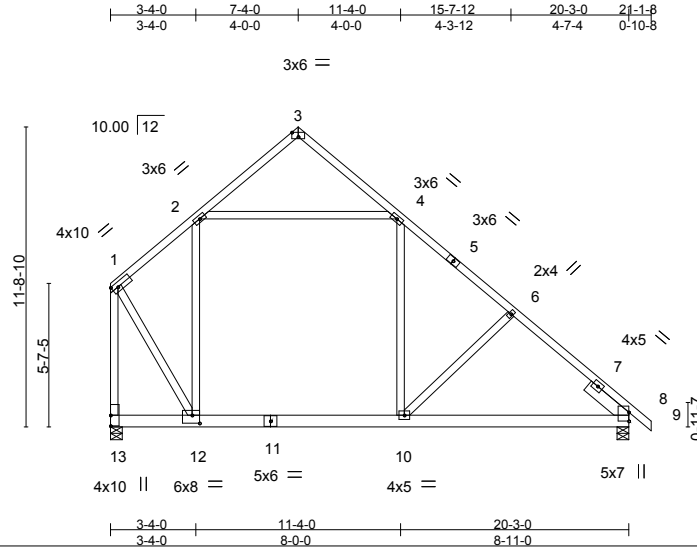


Plate Offsets (X,Y)-- [3:0-3-0,Edge], [12:0-3-8,0-3-12]

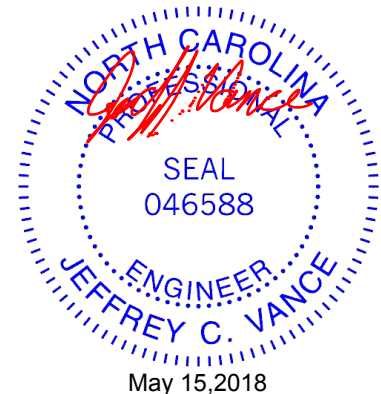
| LOADING (psf) | SPACING-                      | CSI.       | DEFL.    | in (loc) | I/defl | L/d  | PLATES         | GRIP     |
|---------------|-------------------------------|------------|----------|----------|--------|------|----------------|----------|
| TCLL 20.0     | 2-0-12<br>Plate Grip DOL 1.15 | TC 0.70    | Vert(LL) | -0.26    | 10-16  | >937 | MT20           | 244/190  |
| TCDL 10.0     | Lumber DOL 1.15               | BC 0.66    | Vert(TL) | -0.63    | 10-16  | >384 |                | 240      |
| BCLL 0.0 *    | Rep Stress Incr NO            | WB 0.43    | Horz(TL) | -0.05    | 8      | n/a  |                | n/a      |
| BCDL 10.0     | Code IRC2009/TPI2007          | (Matrix-M) | Wind(LL) | 0.38     | 10-16  | >642 |                | 240      |
|               |                               |            |          |          |        |      | Weight: 152 lb | FT = 20% |

| LUMBER-  | BRACING-   |
|--|--|
| TOP CHORD 2x4 SP No.2                              | TOP CHORD Structural wood sheathing directly applied or 5-11-5 oc purlins, except end verticals. |
| BOT CHORD 2x6 SP DSS *Except*<br>8-11: 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.                                    |
| WEBS 2x4 SP No.3                                   |  |
| SLIDER Right 2x6 SP No.2 1-11-12                   |  |

**REACTIONS.** (lb/size) 13=828/0-5-8, 8=885/0-5-8  
Max Horz 13=-453(LC 6)  
Max Uplift 13=-82(LC 9), 8=-105(LC 9)  
Max Grav 13=884(LC 2), 8=885(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-629/332, 2-3=-284/131, 4-5=-629/331, 5-6=-731/315, 6-7=-769/323, 7-8=-844/177,  
1-13=-1222/452  
BOT CHORD 12-13=-259/406, 11-12=-42/483, 10-11=-42/483, 8-10=-84/649  
WEBS 1-12=-360/953, 2-4=-374/337, 6-10=-286/281

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 8=105.
  - 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.



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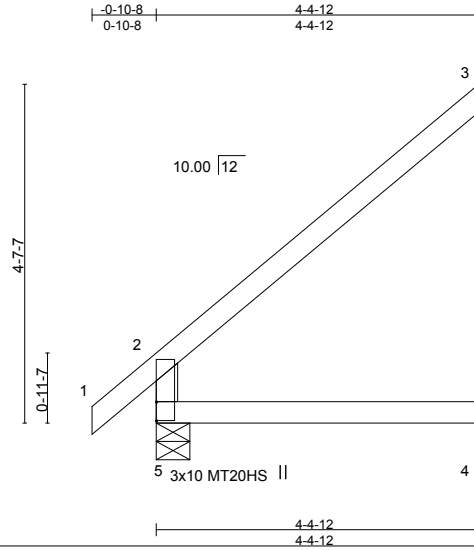


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|                |               |                         |           |          |  |
|----------------|---------------|-------------------------|-----------|----------|--|
| Job<br>1010683 | Truss<br>J101 | Truss Type<br>Jack-Open | Qty<br>34 | Ply<br>1 | H&H-NC/Harmony/979/CarriageGlenAnderson<br>I33330228 |
|----------------|---------------|-------------------------|-----------|----------|--|

Builders First Source, Sumter SC

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Scale = 1:31.4

| LOADING (psf) | SPACING-             | 2-0-0 | CSI.       | DEFL.    | in    | (loc) | l/defl | L/d | PLATES        | GRIP     |
|---------------|----------------------|-------|------------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL 20.0     | Plate Grip DOL       | 1.15  | TC 0.46    | Vert(LL) | -0.01 | 4-5   | >999   | 360 | MT20HS        | 187/143  |
| TCDL 10.0     | Lumber DOL           | 1.15  | BC 0.32    | Vert(TL) | -0.04 | 4-5   | >999   | 240 |               |          |
| BCLL 0.0 *    | Rep Stress Incr      | YES   | WB 0.00    | Horz(TL) | -0.03 | 3     | n/a    | n/a |               |          |
| BCDL 10.0     | Code IRC2009/TPI2007 |       | (Matrix-S) | Wind(LL) | 0.03  | 4-5   | >999   | 240 | Weight: 18 lb | FT = 20% |

**LUMBER-**

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3

**BRACING-**

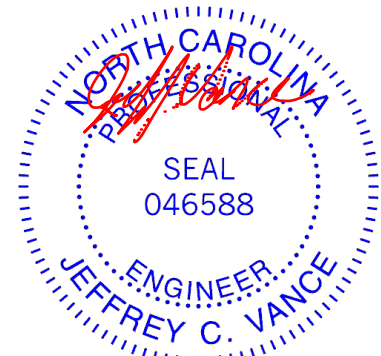
TOP CHORD Structural wood sheathing directly applied, except end verticals.  
BOT CHORD Rigid ceiling directly applied.

**REACTIONS.** (lb/size) 5=236/0-5-8, 3=112/Mechanical, 4=48/Mechanical  
Max Horz 5=192(LC 8)  
Max Uplift 3=99(LC 8)  
Max Grav 5=236(LC 1), 3=112(LC 1), 4=79(LC 3)

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

**NOTES-**

- 1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



May 15, 2018

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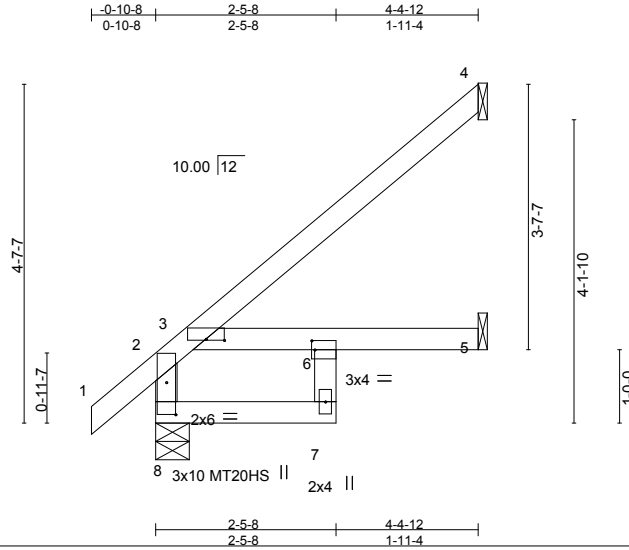


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|                |               |                         |          |          |  |
|----------------|---------------|-------------------------|----------|----------|--|
| Job<br>1010683 | Truss<br>J102 | Truss Type<br>Jack-Open | Qty<br>1 | Ply<br>1 | H&H-NC/Harmony/979/CarriageGlenAnderson<br>133330229 |
|----------------|---------------|-------------------------|----------|----------|--|

Builders First Source, Sumter SC

7.640 s Aug 16 2017 MiTek Industries, Inc. Mon May 14 15:53:28 2018 Page 1  
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Scale = 1:31.4

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

| LOADING (psf) | SPACING-             | 2-0-0 | CSI.       | DEFL.    | in (loc) | I/defl | L/d  | PLATES        | GRIP     |
|---------------|----------------------|-------|------------|----------|----------|--------|------|---------------|----------|
| TCLL 20.0     | Plate Grip DOL       | 1.15  | TC 0.18    | Vert(LL) | -0.01    | 6      | >999 | MT20          | 244/190  |
| TCDL 10.0     | Lumber DOL           | 1.15  | BC 0.20    | Vert(TL) | -0.03    | 5-6    | >999 | MT20HS        | 187/143  |
| BCLL 0.0 *    | Rep Stress Incr      | YES   | WB 0.00    | Horz(TL) | 0.01     | 5      | n/a  |               |          |
| BCDL 10.0     | Code IRC2009/TPI2007 |       | (Matrix-S) | Wind(LL) | 0.02     | 6      | >999 |               |          |
|               |                      |       |            |          |          |        |      | Weight: 22 lb | FT = 20% |

**LUMBER-**

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3

**BRACING-**

TOP CHORD Structural wood sheathing directly applied, except end verticals.  
BOT CHORD Rigid ceiling directly applied.

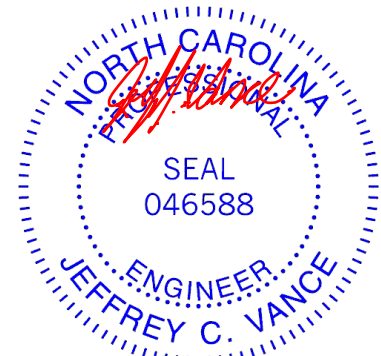
**REACTIONS.** (lb/size) 8=292/0-5-8, 4=89/Mechanical, 5=51/Mechanical  
Max Horz 8=192(LC 8)  
Max Uplift 4=-69(LC 8), 5=-7(LC 8)  
Max Grav 8=292(LC 1), 4=89(LC 1), 5=80(LC 3)

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

TOP CHORD 2-8=-263/92

**NOTES-**

- 1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



May 15, 2018

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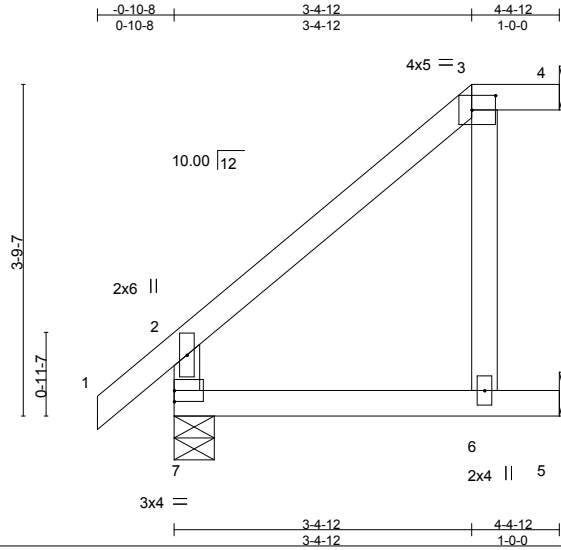


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|                |               |                        |          |          |  |
|----------------|---------------|------------------------|----------|----------|--|
| Job<br>1010683 | Truss<br>J103 | Truss Type<br>Half Hip | Qty<br>2 | Ply<br>1 | H&H-NC/Harmony/979/CarriageGlenAnderson<br>133330230 |
|----------------|---------------|------------------------|----------|----------|--|

Builders First Source, Sumter SC

7.640 s Aug 16 2017 MiTek Industries, Inc. Mon May 14 15:53:28 2018 Page 1  
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Scale = 1:26.3

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

| LOADING (psf) | SPACING-             | 2-0-0 | CSI.       | DEFL.    | in    | (loc) | l/defl | L/d | PLATES        | GRIP     |
|---------------|----------------------|-------|------------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL 20.0     | Plate Grip DOL       | 1.15  | TC 0.27    | Vert(LL) | -0.01 | 6-7   | >999   | 360 | MT20          | 244/190  |
| TCDL 10.0     | Lumber DOL           | 1.15  | BC 0.21    | Vert(TL) | -0.04 | 6-7   | >999   | 240 |               |          |
| BCLL 0.0 *    | Rep Stress Incr      | YES   | WB 0.05    | Horz(TL) | -0.05 | 4     | n/a    | n/a |               |          |
| BCDL 10.0     | Code IRC2009/TPI2007 |       | (Matrix-S) | Wind(LL) | 0.04  | 6-7   | >999   | 240 |               |          |
|               |                      |       |            |          |       |       |        |     | Weight: 22 lb | FT = 20% |

**LUMBER-**

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3

**BRACING-**

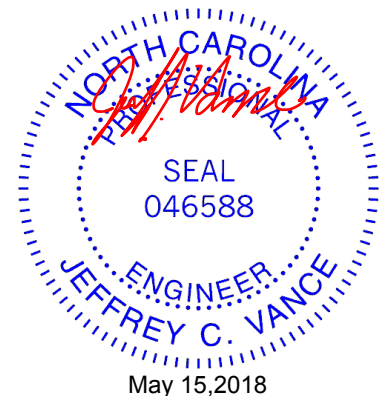
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins: 3-4.  
BOT CHORD Rigid ceiling directly applied.

**REACTIONS.** (lb/size) 4=53/Mechanical, 7=236/0-5-8, 5=107/Mechanical  
Max Horz 7=166(LC 8)  
Max Uplift 4=-7(LC 6), 7=-19(LC 8), 5=-65(LC 8)  
Max Grav 4=55(LC 14), 7=236(LC 1), 5=107(LC 1)

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

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 7, 5.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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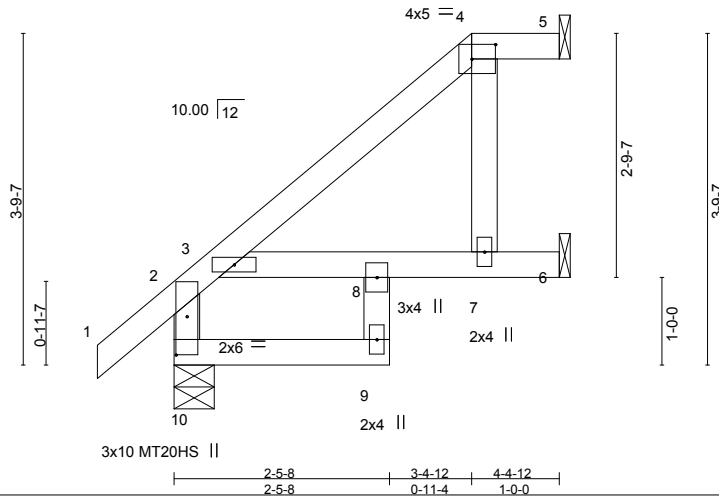
ENGINEERING BY  
**TRENCO**  
A MiTek Affiliate

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Edenton, NC 27932

|                |               |                        |          |          |  |
|----------------|---------------|------------------------|----------|----------|--|
| Job<br>1010683 | Truss<br>J104 | Truss Type<br>Half Hip | Qty<br>1 | Ply<br>1 | H&H-NC/Harmony/979/CarriageGlenAnderson<br>133330231 |
|----------------|---------------|------------------------|----------|----------|--|

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7.640 s Aug 16 2017 MiTek Industries, Inc. Mon May 14 15:53:29 2018 Page 1  
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Scale = 1:26.3

Plate Offsets (X,Y)-- [4:0-3-4,0-2-0], [10:0-5-4,0-1-8]

| LOADING (psf) | SPACING-             | CSI.       | DEFL.    | in (loc) | I/defl | L/d  | PLATES        | GRIP     |
|---------------|----------------------|------------|----------|----------|--------|------|---------------|----------|
| TCLL 20.0     | 2-0-0                | TC 0.19    | Vert(LL) | -0.01    | 8      | >999 | MT20          | 244/190  |
| TCDL 10.0     | Plate Grip DOL 1.15  | BC 0.15    | Vert(TL) | -0.02    | 8      | >999 | MT20HS        | 187/143  |
| BCLL 0.0 *    | Lumber DOL 1.15      | WB 0.03    | Horz(TL) | -0.02    | 5      | n/a  |               |          |
| BCDL 10.0     | Rep Stress Incr YES  | (Matrix-S) | Wind(LL) | 0.02     | 7-8    | >999 |               |          |
|               | Code IRC2009/TP12007 |            |          |          |        |      | Weight: 25 lb | FT = 20% |

**LUMBER-**

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3

**BRACING-**

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins: 4-5.  
BOT CHORD Rigid ceiling directly applied.

**REACTIONS.** (lb/size) 5=53/Mechanical, 10=263/0-5-8, 6=80/Mechanical  
Max Horz 10=166(LC 8)  
Max Uplift 5=-15(LC 7), 10=-35(LC 8), 6=-36(LC 8)

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

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 10, 6.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

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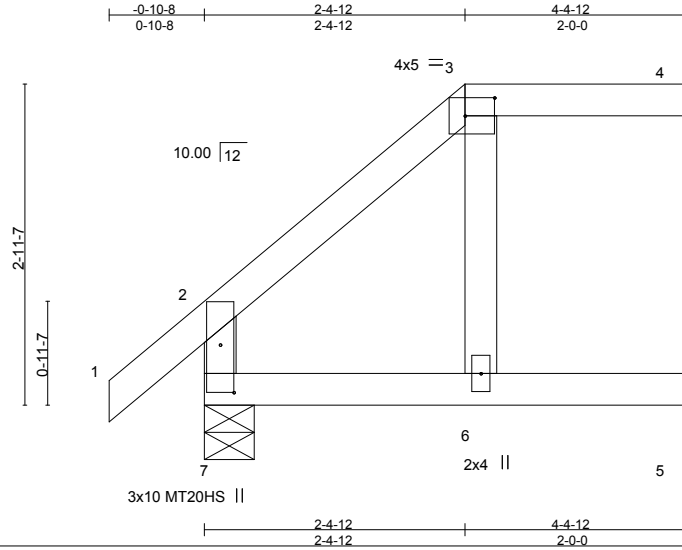
818 Soundside Road  
Edenton, NC 27932



|                |               |                        |          |          |  |
|----------------|---------------|------------------------|----------|----------|--|
| Job<br>1010683 | Truss<br>J105 | Truss Type<br>Half Hip | Qty<br>1 | Ply<br>1 | H&H-NC/Harmony/979/CarriageGlenAnderson<br>I33330232 |
|----------------|---------------|------------------------|----------|----------|--|

Builders First Source, Sumter SC

7.640 s Aug 16 2017 MiTek Industries, Inc. Mon May 14 15:53:29 2018 Page 1  
ID:JovsAXcdZVbP?Est8jbUkoyPBdb-iP8Jk7Jhi6nKW?WepHPILIArduHG9p?6zlf9KqzGXmq



Scale = 1:21.2

Plate Offsets (X,Y)-- [3:0-3-4-0-2-0], [7:0-5-4-0-1-8]

| LOADING (psf) | SPACING-        | 2-0-0           | CSI.       | DEFL.    | in (loc) | l/defl | L/d  | PLATES        | GRIP     |
|---------------|-----------------|-----------------|------------|----------|----------|--------|------|---------------|----------|
| TCLL 20.0     | Plate Grip DOL  | 1.15            | TC 0.20    | Vert(LL) | -0.02    | 6      | >999 | MT20          | 244/190  |
| TCDL 10.0     | Lumber DOL      | 1.15            | BC 0.23    | Vert(TL) | -0.04    | 6      | >999 | MT20HS        | 187/143  |
| BCLL 0.0 *    | Rep Stress Incr | YES             | WB 0.03    | Horz(TL) | 0.06     | 4      | n/a  |               |          |
| BCDL 10.0     | Code            | IRC2009/TPI2007 | (Matrix-S) | Wind(LL) | 0.04     | 6-7    | >999 |               |          |
|               |                 |                 |            |          |          |        |      | Weight: 21 lb | FT = 20% |

**LUMBER-**

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3

**BRACING-**

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins: 3-4.  
BOT CHORD Rigid ceiling directly applied.

**REACTIONS.** (lb/size) 4=89/Mechanical, 7=236/0-5-8, 5=71/Mechanical  
Max Horz 7=136(LC 8)  
Max Uplift 4=-29(LC 7), 7=-36(LC 8), 5=-13(LC 8)  
Max Grav 4=89(LC 1), 7=236(LC 1), 5=73(LC 3)

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

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 7, 5.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 15, 2018

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

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|                |               |                        |          |          |  |
|----------------|---------------|------------------------|----------|----------|--|
| Job<br>1010683 | Truss<br>J106 | Truss Type<br>Half Hip | Qty<br>1 | Ply<br>1 | H&H-NC/Harmony/979/CarriageGlenAnderson<br>I33330233 |
|----------------|---------------|------------------------|----------|----------|--|

Builders First Source, Sumter SC

7.640 s Aug 16 2017 MiTek Industries, Inc. Mon May 14 15:53:30 2018 Page 1  
ID:JovsAXcdZVbP?Esl8jbUkoyPBdb-BbihyTKKTPwB895qN?wXuyi0dlvbuGbFyOitGzGXmp

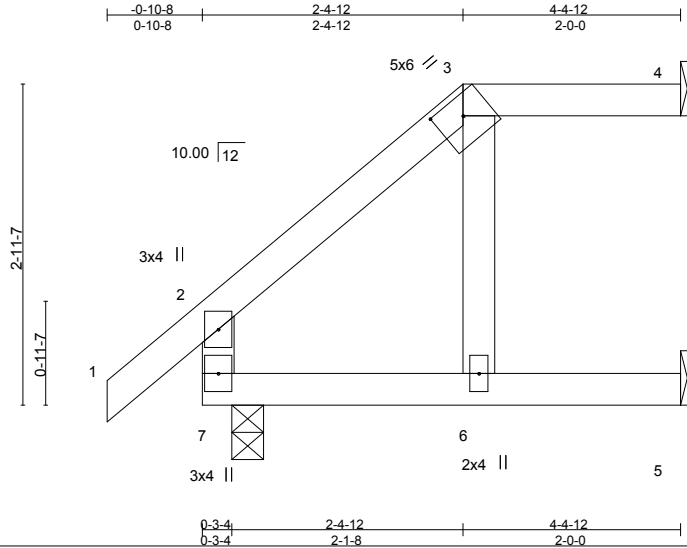


Plate Offsets (X,Y)-- [3:0-3-0-0-2-1]

| LOADING (psf) | SPACING-             | 2-0-0 | CSI.       | DEFL.    | in    | (loc) | I/defl | L/d | PLATES        | GRIP     |
|---------------|----------------------|-------|------------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL 20.0     | Plate Grip DOL       | 1.15  | TC 0.25    | Vert(LL) | -0.02 | 6     | >999   | 360 | MT20          | 244/190  |
| TCDL 10.0     | Lumber DOL           | 1.15  | BC 0.33    | Vert(TL) | -0.04 | 6     | >999   | 240 |               |          |
| BCLL 0.0 *    | Rep Stress Incr      | YES   | WB 0.01    | Horz(TL) | -0.09 | 4     | n/a    | n/a |               |          |
| BCDL 10.0     | Code IRC2009/TPI2007 |       | (Matrix-S) | Wind(LL) | 0.07  | 6-7   | >771   | 240 | Weight: 21 lb | FT = 20% |

**LUMBER-**

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3

**BRACING-**

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins: 3-4.  
BOT CHORD Rigid ceiling directly applied.

**REACTIONS.** (lb/size) 4=89/Mechanical, 7=236/0-3-8, 5=71/Mechanical  
Max Horz 7=136(LC 8)  
Max Uplift 4=-47(LC 7), 7=-95(LC 8), 5=-55(LC 8)  
Max Grav 4=89(LC 1), 7=236(LC 1), 5=73(LC 3)

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

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; cantilever left exposed ; end vertical left exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 7, 5.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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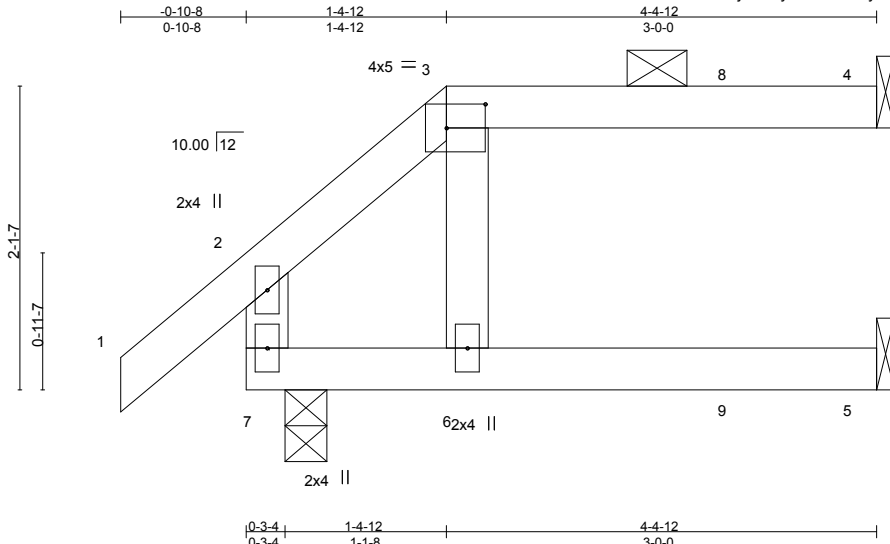
818 Soundside Road  
Edenton, NC 27932



|                |               |                               |          |          |  |
|----------------|---------------|-------------------------------|----------|----------|--|
| Job<br>1010683 | Truss<br>J109 | Truss Type<br>Half Hip Girder | Qty<br>1 | Ply<br>1 | H&H-NC/Harmony/979/CarriageGlenAnderson<br>133330235 |
|----------------|---------------|-------------------------------|----------|----------|--|

Builders First Source, Sumter SC

7.640 s Aug 16 2017 MiTek Industries, Inc. Mon May 14 15:53:30 2018 Page 1  
ID:JovsAXcdZVbP?Esl8jbUkoyPBdb-BbihyTKKTPwB895qN?wXuyi\_HlbbuGFbYoitGzGXmp



Scale: 3/4"=1'

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

| LOADING (psf) | SPACING-             | 2-0-0 | CSI.       | DEFL.    | in    | (loc) | l/defl | L/d | PLATES        | GRIP     |
|---------------|----------------------|-------|------------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL 20.0     | Plate Grip DOL       | 1.15  | TC 0.34    | Vert(LL) | -0.02 | 5-6   | >999   | 360 | MT20          | 244/190  |
| TCDL 10.0     | Lumber DOL           | 1.15  | BC 0.35    | Vert(TL) | -0.06 | 5-6   | >778   | 240 |               |          |
| BCLL 0.0 *    | Rep Stress Incr      | NO    | WB 0.01    | Horz(TL) | -0.08 | 4     | n/a    | n/a |               |          |
| BCDL 10.0     | Code IRC2009/TP12007 |       | (Matrix-M) | Wind(LL) | 0.07  | 5-6   | >771   | 240 | Weight: 19 lb | FT = 20% |

| LUMBER-               | BRACING-  |
|-----------------------|---|
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 4-4-12 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4. |
| BOT CHORD 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.   |
| WEBS 2x4 SP No.2      |   |

**REACTIONS.** (lb/size) 4=139/Mechanical, 7=294/0-3-8, 5=95/Mechanical  
Max Horz 7=106(LC 6)  
Max Uplift 4=-103(LC 5), 7=-197(LC 6), 5=-94(LC 5)  
Max Grav 4=140(LC 12), 7=294(LC 1), 5=106(LC 3)

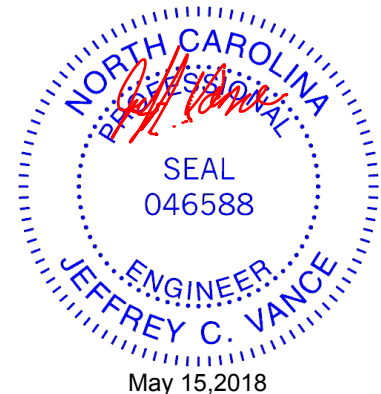
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 100mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); cantilever left exposed; end vertical left exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 4=103, 7=197.
- 9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 51 lb down and 74 lb up at 1-4-12, and 36 lb down and 74 lb up at 3-5-8 on top chord, and 30 lb down and 40 lb up at 1-5-8, and 32 lb down and 42 lb up at 3-5-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-60, 2-3=-60, 3-4=-60, 5-7=-20  
Concentrated Loads (lb)  
Vert: 3=-33(F) 6=-30(F) 8=-36(F) 9=-32(F)



**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

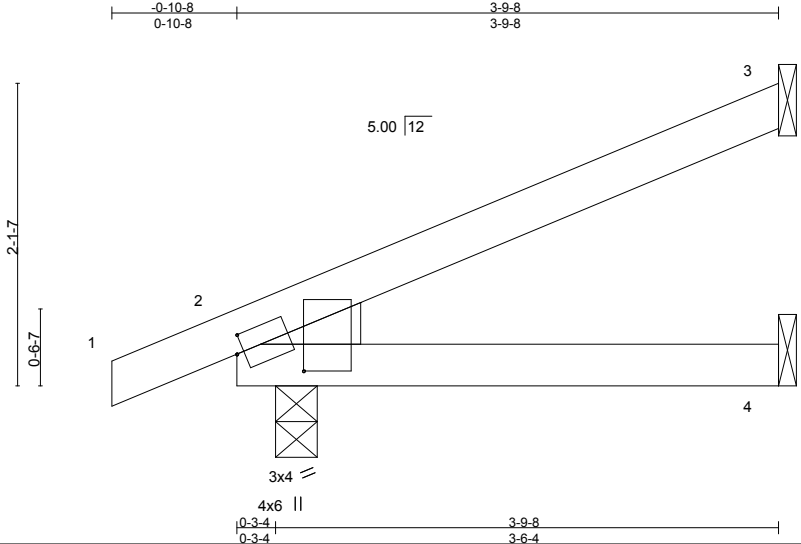
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 ANSIT/PI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



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|                |               |                         |          |          |  |
|----------------|---------------|-------------------------|----------|----------|--|
| Job<br>1010683 | Truss<br>J113 | Truss Type<br>Jack-Open | Qty<br>2 | Ply<br>1 | H&H-NC/Harmony/979/CarriageGlenAnderson<br>133330236 |
|----------------|---------------|-------------------------|----------|----------|--|

Builders First Source, Sumter SC 7.640 s Aug 16 2017 MiTek Industries, Inc. Mon May 14 15:53:31 2018 Page 1  
 ID: JovsAXcdZVbP?Esl8JbUkoyPBdb-fnF39pLyEj21mJg0xiRmQAFB?ixzdj1PQc8GPjzGXmo



Scale: 3/4"=1'

|  |                       |             |                                  |               |             |
|--|-----------------------|-------------|----------------------------------|---------------|-------------|
| Plate Offsets (X,Y)-- [2:0-0-10-0-1-8], [2:0-1-7-0-5-10] |                       |             |                                  |               |             |
| <b>LOADING</b> (psf)                                     | <b>SPACING-</b> 2-0-0 | <b>CSI.</b> | <b>DEFL.</b> in (loc) l/defl L/d | <b>PLATES</b> | <b>GRIP</b> |
| TCLL 20.0  | Plate Grip DOL 1.15   | TC 0.21     | Vert(LL) -0.01 4-7 >999 360      | MT20          | 244/190     |
| TCDL 10.0  | Lumber DOL 1.15       | BC 0.22     | Vert(TL) -0.02 4-7 >999 240      |               |             |
| BCLL 0.0 *   | Rep Stress Incr YES   | WB 0.00     | Horz(TL) -0.01 3 n/a n/a         |               |             |
| BCDL 10.0  | Code IRC2009/TPI2007  | (Matrix-M)  | Wind(LL) 0.03 4-7 >999 240       | Weight: 14 lb | FT = 20%    |

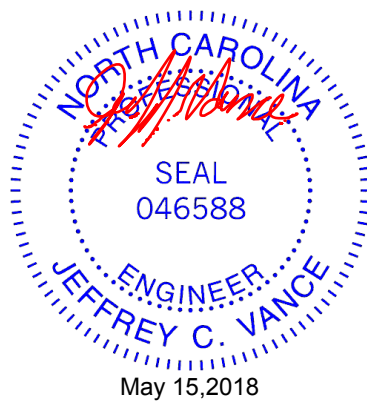
**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEDGE  
 Left: 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 3-9-8 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 3=93/Mechanical, 4=50/Mechanical, 2=208/0-3-8  
 Max Horz 2=76(LC 8)  
 Max Uplift 3=-50(LC 8), 4=-35(LC 8), 2=-102(LC 8)  
 Max Grav 3=93(LC 1), 4=67(LC 3), 2=208(LC 1)

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

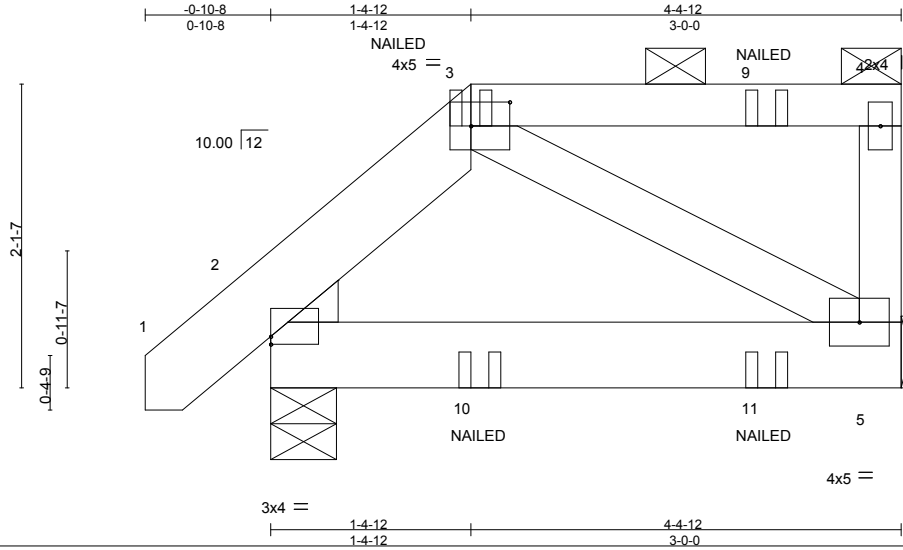
- NOTES-**
- 1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; cantilever left exposed ; end vertical left exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 5) Refer to girder(s) for truss to truss connections.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=102.
  - 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.



|                |               |                               |          |          |  |
|----------------|---------------|-------------------------------|----------|----------|--|
| Job<br>1010683 | Truss<br>J114 | Truss Type<br>HALF HIP GIRDER | Qty<br>1 | Ply<br>1 | H&H-NC/Harmony/979/CarriageGlenAnderson<br>I33330237 |
|----------------|---------------|-------------------------------|----------|----------|--|

Builders First Source, Sumter SC

7.640 s Aug 16 2017 MiTek Industries, Inc. Mon May 14 15:53:31 2018 Page 1  
ID: JovsAXcdZVbP?Estl8jUkoyPBdb-fnF39pLyEj21mJg0xiRmQAFCNI?1djiPQc8GPjzGXmo



Scale: 3/4"=1'

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

| LOADING (psf) | SPACING-             | 2-0-0 | CSI.       | DEFL.    | in    | (loc) | l/defl | L/d | PLATES        | GRIP     |
|---------------|----------------------|-------|------------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL 20.0     | Plate Grip DOL       | 1.15  | TC 0.19    | Vert(LL) | -0.00 | 5-8   | >999   | 360 | MT20          | 244/190  |
| TCDL 10.0     | Lumber DOL           | 1.15  | BC 0.08    | Vert(TL) | -0.01 | 5-8   | >999   | 240 |               |          |
| BCLL 0.0 *    | Rep Stress Incr      | NO    | WB 0.02    | Horz(TL) | 0.00  | 2     | n/a    | n/a |               |          |
| BCDL 10.0     | Code IRC2009/TPI2007 |       | (Matrix-M) | Wind(LL) | 0.00  | 5-8   | >999   | 240 |               |          |
|               |                      |       |            |          |       |       |        |     | Weight: 29 lb | FT = 20% |

**LUMBER-**  
TOP CHORD 2x6 SP No.2 \*Except\*  
3-4: 2x4 SP No.2  
BOT CHORD 2x6 SP No.2  
WEBS 2x4 SP No.2  
WEDGE  
Left: 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-4-12 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 2=238/0-5-8, 5=195/Mechanical  
Max Horz 2=82(LC 6)  
Max Uplift 2=82(LC 6), 5=84(LC 5)

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

- NOTES-**
- 1) Wind: ASCE 7-05; 100mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) Refer to girder(s) for truss to truss connections.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.
  - 8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails. For more details refer to MiTek's ST-TOENAIL Detail.
  - 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)  
Vert: 1-3=-60, 3-4=-60, 5-6=-20

Concentrated Loads (lb)  
Vert: 3=-10(B) 9=-16(B) 10=-9(B) 11=-11(B)



May 15, 2018

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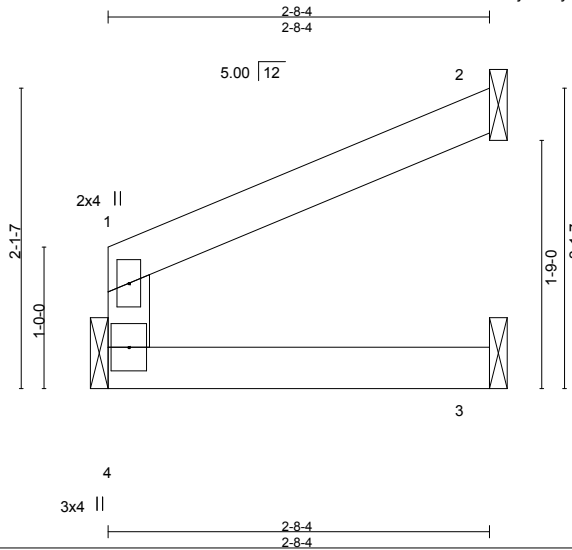
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|                |               |                         |          |          |  |
|----------------|---------------|-------------------------|----------|----------|--|
| Job<br>1010683 | Truss<br>J115 | Truss Type<br>Jack-Open | Qty<br>2 | Ply<br>1 | H&H-NC/Harmony/979/CarriageGlenAnderson<br>I33330238 |
|----------------|---------------|-------------------------|----------|----------|--|

Builders First Source, Sumter SC

7.640 s Aug 16 2017 MiTek Industries, Inc. Mon May 14 15:53:32 2018 Page 1  
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Scale = 1:16.2

| LOADING (psf) | SPACING-             | 2-0-0 | CSI.       | DEFL.    | in    | (loc) | l/defl | L/d | PLATES       | GRIP     |
|---------------|----------------------|-------|------------|----------|-------|-------|--------|-----|--------------|----------|
| TCLL 20.0     | Plate Grip DOL       | 1.15  | TC 0.16    | Vert(LL) | -0.00 | 3-4   | >999   | 360 | MT20         | 244/190  |
| TCDL 10.0     | Lumber DOL           | 1.15  | BC 0.10    | Vert(TL) | -0.01 | 3-4   | >999   | 240 |              |          |
| BCLL 0.0 *    | Rep Stress Incr      | YES   | WB 0.00    | Horz(TL) | -0.01 | 2     | n/a    | n/a |              |          |
| BCDL 10.0     | Code IRC2009/TPI2007 |       | (Matrix-M) | Wind(LL) | 0.00  | 3-4   | >999   | 240 | Weight: 9 lb | FT = 20% |

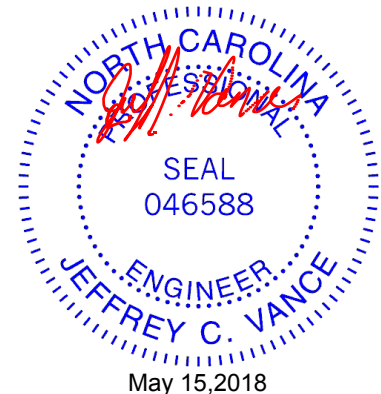
| LUMBER-               | BRACING-  |
|-----------------------|---|
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 2-8-4 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.                                  |
| WEBS 2x4 SP No.3      |   |

**REACTIONS.** (lb/size) 4=99/Mechanical, 2=70/Mechanical, 3=29/Mechanical  
Max Horz 4=37(LC 8)  
Max Uplift 2=-38(LC 8)  
Max Grav 4=99(LC 1), 2=70(LC 1), 3=48(LC 3)

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

**NOTES-**

- 1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.



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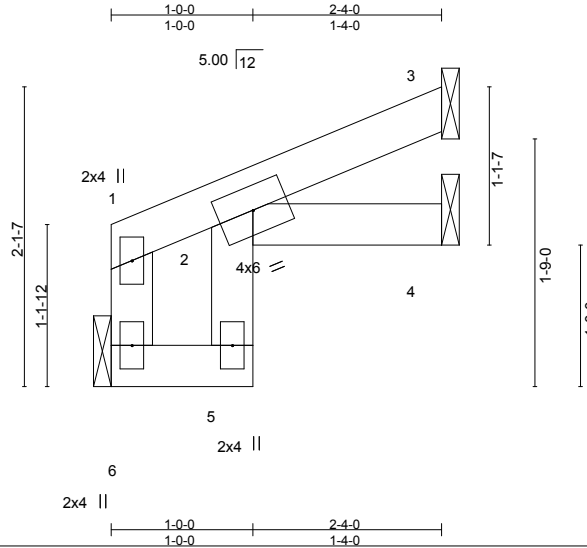




|                |               |                         |          |          |  |
|----------------|---------------|-------------------------|----------|----------|--|
| Job<br>1010683 | Truss<br>J117 | Truss Type<br>Jack-Open | Qty<br>1 | Ply<br>1 | H&H-NC/Harmony/979/CarriageGlenAnderson<br>I33330240 |
|----------------|---------------|-------------------------|----------|----------|--|

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7.640 s Aug 16 2017 MiTek Industries, Inc. Mon May 14 15:53:32 2018 Page 1  
ID: JovsAXcdZVbP?Esl8jUkoyPBdb-7\_pRM9Ma?1AuNTFDUQy?zNoOH6KIMAHYfGtpx9zGXmn



Scale = 1:16.3

| LOADING (psf) | SPACING-             | 2-0-0 | CSI.       | DEFL.    | in    | (loc) | l/defl | L/d | PLATES        | GRIP     |
|---------------|----------------------|-------|------------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL 20.0     | Plate Grip DOL       | 1.15  | TC 0.11    | Vert(LL) | -0.00 | 2     | >999   | 360 | MT20          | 244/190  |
| TCDL 10.0     | Lumber DOL           | 1.15  | BC 0.08    | Vert(TL) | -0.00 | 2     | >999   | 240 |               |          |
| BCLL 0.0 *    | Rep Stress Incr      | YES   | WB 0.00    | Horz(TL) | -0.01 | 4     | n/a    | n/a |               |          |
| BCDL 10.0     | Code IRC2009/TPI2007 |       | (Matrix-M) | Wind(LL) | 0.00  | 2     | >999   | 240 | Weight: 10 lb | FT = 20% |

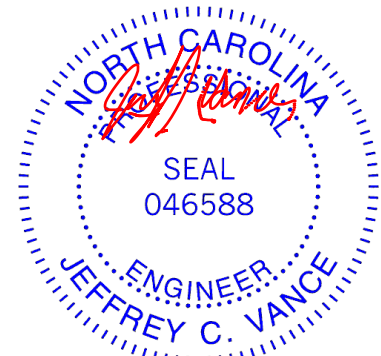
| LUMBER-               | BRACING-  |
|-----------------------|---|
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.                                   |
| WEBS 2x4 SP No.3      |   |

**REACTIONS.** (lb/size) 6=85/Mechanical, 3=52/Mechanical, 4=33/Mechanical  
Max Horz 6=32(LC 8)  
Max Uplift 3=27(LC 8), 4=6(LC 8)  
Max Grav 6=85(LC 1), 3=52(LC 1), 4=38(LC 3)

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

**NOTES-**

- 1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4.
- 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.



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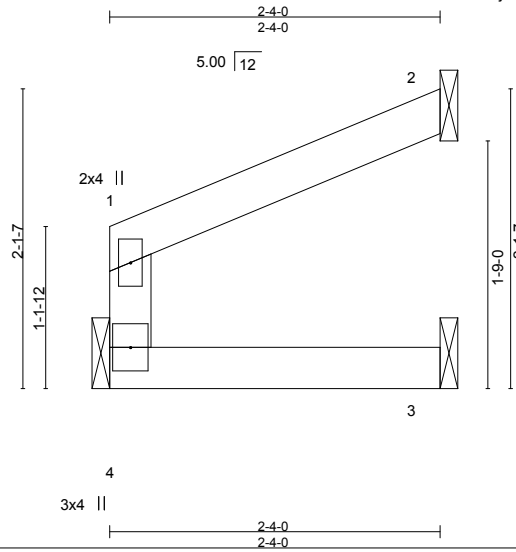


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|                |               |                         |          |          |  |
|----------------|---------------|-------------------------|----------|----------|--|
| Job<br>1010683 | Truss<br>J118 | Truss Type<br>Jack-Open | Qty<br>1 | Ply<br>1 | H&H-NC/Harmony/979/CarriageGlenAnderson<br>I33330241 |
|----------------|---------------|-------------------------|----------|----------|--|

Builders First Source, Sumter SC

7.640 s Aug 16 2017 MiTek Industries, Inc. Mon May 14 15:53:33 2018 Page 1  
ID:JovsAXcdZVbP?Esl8jbUkoyPBdb-bANqaVMCmKII?dqP27UEWbKYcVgX5dXitvdNTbzGXmm



Scale = 1:16.3

| LOADING (psf) | SPACING-             | 2-0-0 | CSI.       | DEFL.    | in    | (loc) | l/defl | L/d | PLATES       | GRIP     |
|---------------|----------------------|-------|------------|----------|-------|-------|--------|-----|--------------|----------|
| TCLL 20.0     | Plate Grip DOL       | 1.15  | TC 0.14    | Vert(LL) | -0.00 | 3-4   | >999   | 360 | MT20         | 244/190  |
| TCDL 10.0     | Lumber DOL           | 1.15  | BC 0.08    | Vert(TL) | -0.00 | 3-4   | >999   | 240 |              |          |
| BCLL 0.0 *    | Rep Stress Incr      | YES   | WB 0.00    | Horz(TL) | -0.01 | 2     | n/a    | n/a |              |          |
| BCDL 10.0     | Code IRC2009/TPI2007 |       | (Matrix-M) | Wind(LL) | 0.00  | 3-4   | >999   | 240 | Weight: 8 lb | FT = 20% |

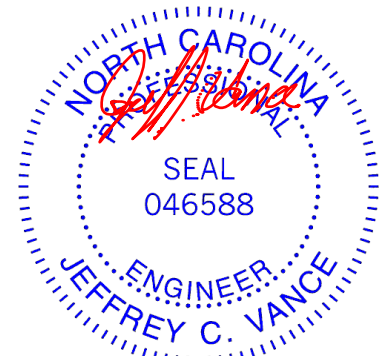
| LUMBER-               | BRACING-  |
|-----------------------|---|
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.                                  |
| WEBS 2x4 SP No.3      |   |

**REACTIONS.** (lb/size) 4=85/Mechanical, 2=60/Mechanical, 3=25/Mechanical  
Max Horz 4=32(LC 8)  
Max Uplift 2=35(LC 8)  
Max Grav 4=85(LC 1), 2=60(LC 1), 3=41(LC 3)

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

**NOTES-**

- 1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.



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**Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314. **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

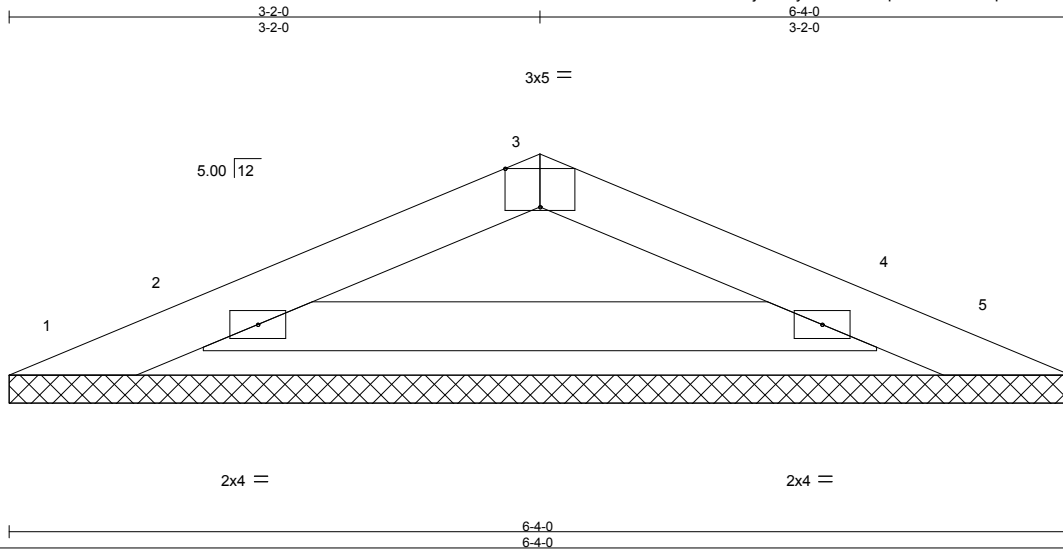


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|                |               |                     |          |          |  |
|----------------|---------------|---------------------|----------|----------|--|
| Job<br>1010683 | Truss<br>PB02 | Truss Type<br>GABLE | Qty<br>6 | Ply<br>1 | H&H-NC/Harmony/979/CarriageGlenAnderson<br>133330242 |
|----------------|---------------|---------------------|----------|----------|--|

Builders First Source, Sumter SC

7.640 s Aug 16 2017 MiTek Industries, Inc. Mon May 14 15:53:33 2018 Page 1  
ID:JovsAXcdZVbP?Esl8jbUkoyPBdb-bANqaVMCmKII?dqP27UEWbKZhVee5dXitvdNTbzGXmm



Scale = 1:13.7

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

| LOADING (psf) | SPACING-             | 2-0-0 | CSI.     | DEFL.    | in (loc) | l/defl | L/d | PLATES | GRIP          |          |
|---------------|----------------------|-------|----------|----------|----------|--------|-----|--------|---------------|----------|
| TCLL 20.0     | Plate Grip DOL       | 1.15  | TC 0.07  | Vert(LL) | n/a      | -      | n/a | 999    | MT20          | 244/190  |
| TCDL 10.0     | Lumber DOL           | 1.15  | BC 0.20  | Vert(TL) | n/a      | -      | n/a | 999    |               |          |
| BCLL 0.0 *    | Rep Stress Incr      | YES   | WB 0.00  | Horz(TL) | 0.00     | 5      | n/a | n/a    |               |          |
| BCDL 10.0     | Code IRC2009/TPI2007 |       | (Matrix) |          |          |        |     |        | Weight: 16 lb | FT = 20% |

**LUMBER-**

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

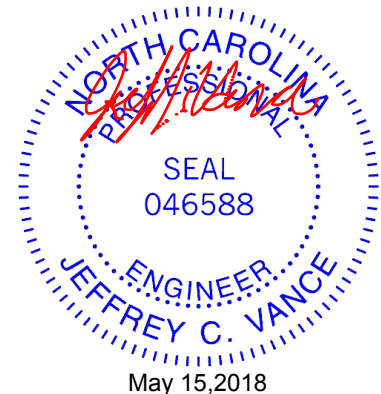
**REACTIONS.**

- All bearings 6-4-0.  
(lb) - Max Horz 1=-15(LC 9)  
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 2, 4  
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 2, 4

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

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 2, 4.
- "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

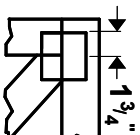
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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A MiTek Affiliate

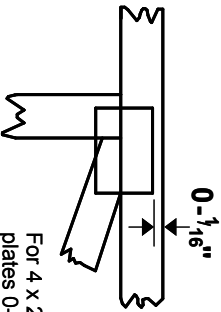
818 Soundside Road  
Edenton, NC 27932

# Symbols

## PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.



This symbol indicates the required direction of slots in connector plates.

\* Plate location details available in **MITek 2020 software** or upon request.

## PLATE SIZE

**4 X 4**

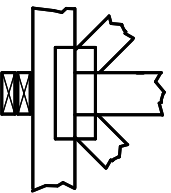
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

## BEARING



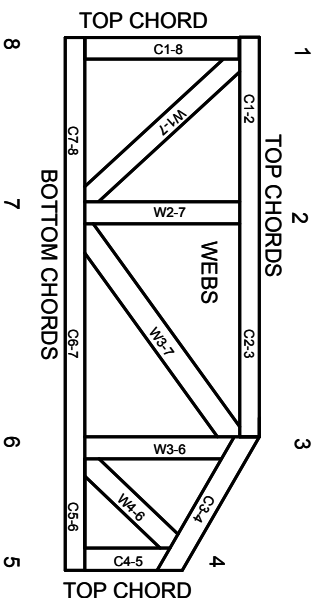
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

### Industry Standards:

ANSI/TP11: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-89: Design Standard for Bracing.  
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

# Numbering System

6-4-8 dimensions shown in ft.-in.-sixteenths (Drawings not to scale)



**JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.**

**CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.**

## PRODUCT CODE APPROVALS

ICC-ES Reports:

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

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TP1 section 6.3. These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: Mill-7473 rev. 10/03/2015

# General Safety Notes

## Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor-I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.