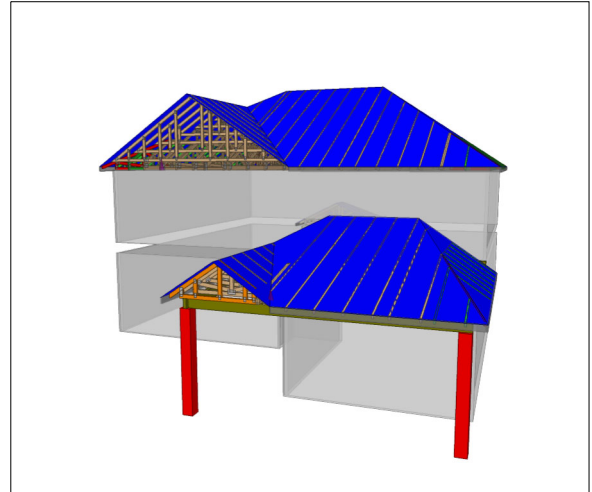




Carter Sanford Component Plant  
298 Harvey Faulk Rd  
Sanford, NC 27332

Phone #:919-775-1450

**Builder: DR Horton Inc**  
**Model: 10 Eagle Creek -**  
**Edisto - B**



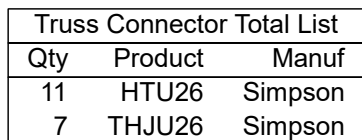
**THE PLACEMENT PLAN NOTES:**

1. The Placement Plan is a diagram for truss installation. It is not an engineered drawing and has not been reviewed by an engineer. The Owner/Building Designer is responsible for obtaining an engineer's review if one is required by the local jurisdiction.
2. The responsibilities of the Owner, Contractor, Building Designer, Component Designer and Component Manufacturer shall be as set forth in ANSI/TPI 1. Capitalized terms shall be as defined in ANSI/TP 1 unless otherwise indicated.
3. Each Component is designed as an individual component utilizing information provided by others. The Owner/Building Designer is responsible for reviewing all Component Submittal Packages and individual Component Design Drawings for compliance with the Construction Documents and compatibility with the overall Building design.
4. Contractor will not proceed with component installation until the Owner/Building Designer has reviewed the Component Submittal Package. Questions on the suitability of any Component will be resolved by the Building Designer.
5. The Building Designer and Contractor are responsible for all temporary and permanent bracing.
6. The Placement Plan assumes the building is dimensionally correct, structurally sound, and in a suitable condition to support each Component during installation and thereafter, including but not limited to installation of all bearing points. Proper design and construction of all structural components, including foundations, headers, beams, walls and columns are the responsibility of the Owner, Building Designer and Contractor.
7. Do not cut, drill, or modify any Component without first consulting the Component Manufacturer or Building Designer. Damaged Components shall not be installed unless directed by the Building Designer or approved by the Component Manufacturer.
8. Components must be handled and installed following all applicable safety standards and best practices, including but not limited to BCSI, OSHA, TPI and local codes. Failure to properly handle, brace or otherwise install Component can result in serious injury or death.
9. All uplift connectors shown within these documents are recommendations only. Per ANSI/TPI 1, all uplift connectors are the responsibility of the building designer and or contractor.

**Approved By:** \_\_\_\_\_

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

FRAMER MUST REFER TO PLANS WHILE SETTING COMPONENTS.



\*\*\* GIRDERS MUST BE FULLY CONNECTED TOGETHER PRIOR TO ADDING ANY LOADS.

**THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.** These trusses are designed as individual components to be incorporated into the building design at the specification of the building designer. See Individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor systems and for the design of the connections of the trusses to the building members, columns, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding the bracing, consult "Bracing of Wood Truss" available from the Truss Plate Institute, 583 D'Onofrio Drive: Madison, WI 53179

|                                    |
|------------------------------------|
| DR Horton Inc                      |
| <b>10 Eagle Creek - Edisto - B</b> |
| <b>ROOF PLACEMENT PLAN</b>         |



Date: 1/20/2007

Designer:

Nale Donaldso

**25040104-B**

Sheet Number:

RE: 25040104  
10 Eagle Creek - Edisto B - Roof

**Trenco**  
818 Soundside Rd  
Edenton, NC 27932

**Site Information:**

Customer: DR Horton Inc Project Name: 25040104  
Lot/Block: 10 Model: Edisto B  
Address: Subdivision: Eagle Creek  
City: State:

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

Design Code: IRC2021/TPI2014 Design Program: MiTek 20/20 8.7  
Wind Code: ASCE 7-16 Wind Speed: 130 mph  
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 47 individual, dated Truss Design Drawings and 0 Additional Drawings.

| No. | Seal#     | Truss Name | Date      | No. | Seal#     | Truss Name | Date      |
|-----|-----------|------------|-----------|-----|-----------|------------|-----------|
| 1   | I72941905 | A1         | 4/23/2025 | 21  | I72941925 | D1         | 4/23/2025 |
| 2   | I72941906 | A2         | 4/23/2025 | 22  | I72941926 | D2         | 4/23/2025 |
| 3   | I72941907 | A3         | 4/23/2025 | 23  | I72941927 | D3         | 4/23/2025 |
| 4   | I72941908 | A4         | 4/23/2025 | 24  | I72941928 | E1         | 4/23/2025 |
| 5   | I72941909 | A5         | 4/23/2025 | 25  | I72941929 | E2         | 4/23/2025 |
| 6   | I72941910 | A6         | 4/23/2025 | 26  | I72941930 | E3         | 4/23/2025 |
| 7   | I72941911 | A7         | 4/23/2025 | 27  | I72941931 | E4         | 4/23/2025 |
| 8   | I72941912 | A8         | 4/23/2025 | 28  | I72941932 | E5         | 4/23/2025 |
| 9   | I72941913 | A9         | 4/23/2025 | 29  | I72941933 | E6         | 4/23/2025 |
| 10  | I72941914 | A10        | 4/23/2025 | 30  | I72941934 | E7         | 4/23/2025 |
| 11  | I72941915 | A11        | 4/23/2025 | 31  | I72941935 | E8         | 4/23/2025 |
| 12  | I72941916 | A12        | 4/23/2025 | 32  | I72941936 | E9         | 4/23/2025 |
| 13  | I72941917 | A13        | 4/23/2025 | 33  | I72941937 | E10        | 4/23/2025 |
| 14  | I72941918 | B1         | 4/23/2025 | 34  | I72941938 | E11        | 4/23/2025 |
| 15  | I72941919 | B2         | 4/23/2025 | 35  | I72941939 | E12        | 4/23/2025 |
| 16  | I72941920 | C1         | 4/23/2025 | 36  | I72941940 | E13        | 4/23/2025 |
| 17  | I72941921 | C2         | 4/23/2025 | 37  | I72941941 | E14        | 4/23/2025 |
| 18  | I72941922 | C3         | 4/23/2025 | 38  | I72941942 | E15        | 4/23/2025 |
| 19  | I72941923 | C4         | 4/23/2025 | 39  | I72941943 | E16        | 4/23/2025 |
| 20  | I72941924 | C5         | 4/23/2025 | 40  | I72941944 | E17        | 4/23/2025 |

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

Truss Design Engineer's Name: Galinski, John

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

North Carolina COA: C-0844

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 TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. 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.



RE: 25040104 - 10 Eagle Creek - Edisto B - Roof

**Trenco**

818 Soundside Rd  
Edenton, NC 27932

**Site Information:**

Project Customer: DR Horton Inc Project Name: 25040104

Lot/Block: 10

Subdivision: Eagle Creek

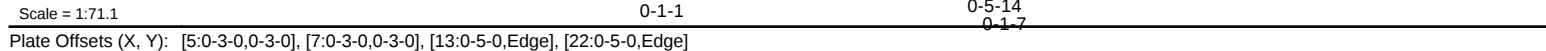
Address:

City, County:

State:

| No. | Seal#     | Truss Name | Date      |
|-----|-----------|------------|-----------|
| 41  | I72941945 | E18        | 4/23/2025 |
| 42  | I72941946 | V1         | 4/23/2025 |
| 43  | I72941947 | V2         | 4/23/2025 |
| 44  | I72941948 | V3         | 4/23/2025 |
| 45  | I72941949 | V4         | 4/23/2025 |
| 46  | I72941950 | V5         | 4/23/2025 |
| 47  | I72941951 | V6         | 4/23/2025 |

Carter Components (Sanford, NC), Sanford, NC - 27332, Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Apr 22 13:52:24 Page: 1  
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|                  |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LUMBER</b>    |                                                                                                                                                                                                     | 3) Wind: ASCE 7-16; Vult=130mph (3-second gust)<br>Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.<br>II; Exp B; Enclosed; MWFRS (envelope) and C-C<br>Exterior(2E) -0-10-1 to 2-10-3, Interior (1) 2-10-3 to<br>18-5-8, Exterior(2R) 18-5-8 to 22-1-13, Interior (1)<br>22-1-13 to 37-9-1 zone; cantilever left and right<br>exposed ; end vertical left and right exposed;C-C for<br>members and forces & MWFRS for reactions shown;<br>Lumber DOL=1.60 plate grip DOL=1.33 |
| TOP CHORD        | 2x4 SP 2400F 2.0E                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| BOT CHORD        | 2x6 SP 2400F 2.0E *Except* 21-15:2x4 SP<br>No.2                                                                                                                                                     | 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15<br>Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum<br>DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully<br>Exp.; Ce=0.9; Cs=1.00; Ct=1.10                                                                                                                                                                                                                                                                                |
| WEBS             | 2x4 SP No.3 *Except* 22-6,13-6:2x4 SP No.2                                                                                                                                                          | 4) Unbalanced snow loads have been considered for this<br>design.                                                                                                                                                                                                                                                                                                                                                                                                                 |
| SLIDER           | Left 2x4 SP No.3 -- 2-0-0, Right 2x4 SP No.3<br>-- 2-0-0                                                                                                                                            | 5) This truss has been designed for greater of min roof live<br>load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on<br>overhangs non-concurrent with other live loads.                                                                                                                                                                                                                                                                                                   |
| <b>BRACING</b>   |                                                                                                                                                                                                     | 6) 200.0lb AC unit load placed on the bottom chord, 18-5-8<br>from left end, supported at two points, 5-0-0 apart.                                                                                                                                                                                                                                                                                                                                                                |
| TOP CHORD        | Structural wood sheathing directly applied or<br>4-0-3 oc purlins.                                                                                                                                  | 7) All plates are 2x4 MT20 unless otherwise indicated.                                                                                                                                                                                                                                                                                                                                                                                                                            |
| BOT CHORD        | Rigid ceiling directly applied or 6-0-0 oc<br>bracing.                                                                                                                                              | 8) * This truss has been designed for a live load of 20.0psf<br>on the bottom chord in all areas where a rectangle<br>3-06-00 tall by 2-00-00 wide will fit between the bottom<br>chord and any other members, with BCDL = 10.0psf.                                                                                                                                                                                                                                               |
| WEBS             | 1 Row at midpt 5-23, 7-12                                                                                                                                                                           | 9) All bearings are assumed to be SP 2400F 2.0E .                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>REACTIONS</b> | (size) 2=0-3-8, 10=0-3-8<br>Max Horiz 2=-98 (LC 13)<br>Max Grav 2=2002 (LC 3), 10=2002 (LC 3)                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>FORCES</b>    | (lb) - Maximum Compression/Maximum<br>Tension                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| TOP CHORD        | 1-2=0/28, 2-4=-3642/0, 4-6=-3575/0,<br>6-8=-3575/0, 8-10=-3642/0, 10-11=0/28                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| BOT CHORD        | 2-23=0/3179, 20-23=0/3009, 18-20=0/2355,<br>14-18=0/2355, 12-14=0/3009, 10-12=0/3180,<br>19-21=-171/0, 17-19=-171/0, 16-17=-171/0,<br>15-16=-171/0                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| WEBS             | 4-23=-273/134, 5-23=-182/210,<br>5-22=-500/257, 21-22=0/1451, 6-21=0/1589,<br>6-15=0/1589, 13-15=0/1451, 7-13=-500/257,<br>7-12=-182/210, 8-12=-273/134, 17-18=-90/0,<br>14-16=-135/0, 19-20=-135/0 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                  |                                                                                                                                                                                                     | <b>LOAD CASE(S)</b> Standard                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute ([www.tpinst.org](http://www.tpinst.org)) and **BCSI Building Component Safety Information** available from the Structural Building Component Association ([www.sbcacomponents.com](http://www.sbcacomponents.com))



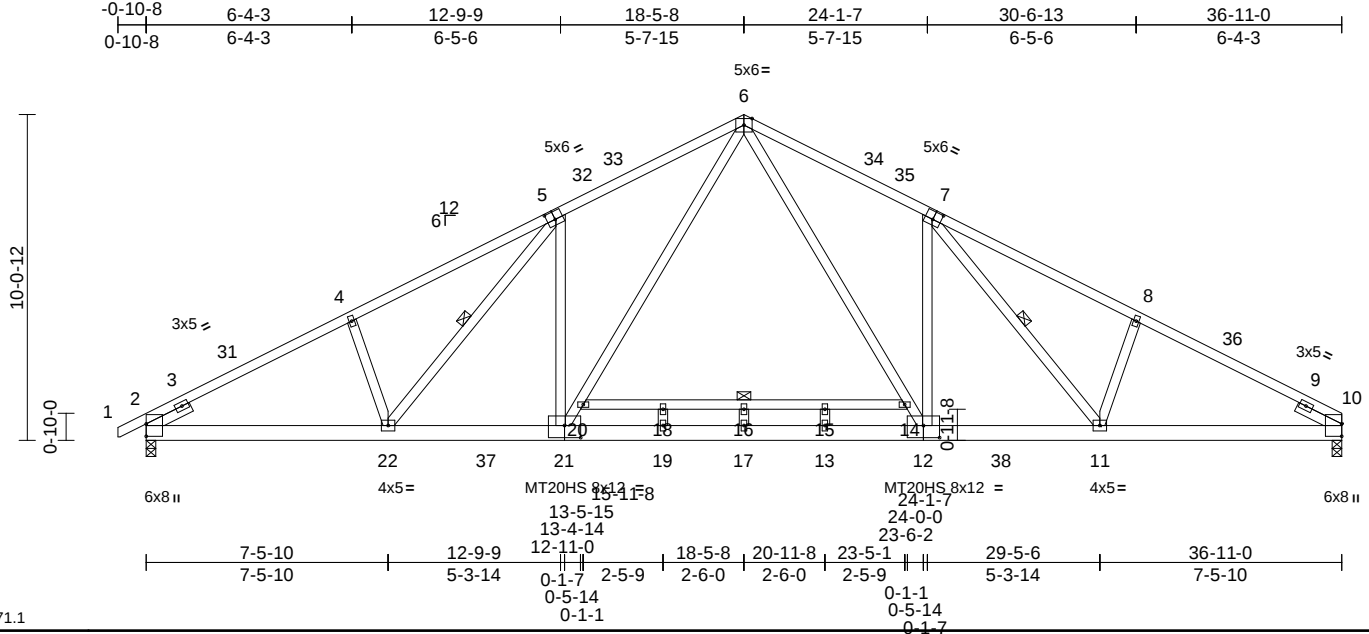
818 Soundside Road  
Edenton, NC 27932

|          |       |            |     |     |                                  |           |
|----------|-------|------------|-----|-----|----------------------------------|-----------|
| Job      | Truss | Truss Type | Qty | Ply | 10 Eagle Creek - Edisto B - Roof | 172941906 |
| 25040104 | A2    | Common     | 5   | 1   | Job Reference (optional)         |           |

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

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Page: 1



Scale = 1:71.1

Plate Offsets (X, Y): [5:0-3-0,0-3-0], [7:0-3-0,0-3-0], [12:0-6-0,0-4-8], [21:0-6-0,0-4-8]

| Loading      | (psf)     | Spacing         | 2-0-0           | CSI        |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES         | GRIP     |
|--------------|-----------|-----------------|-----------------|------------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof)  | 20.0      | Plate Grip DOL  | 1.15            | TC         | 0.43 | Vert(LL) | -0.27 | 16    | >999   | 240 | MT20           | 244/190  |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL      | 1.15            | BC         | 0.48 | Vert(CT) | -0.57 | 16    | >782   | 180 | MT20HS         | 187/143  |
| TCDL         | 10.0      | Rep Stress Incr | YES             | WB         | 0.44 | Horz(CT) | 0.07  | 10    | n/a    | n/a |                |          |
| BCLL         | 0.0*      | Code            | IRC2021/TPI2014 | Matrix-MSH |      |          |       |       |        |     |                |          |
| BCDL         | 10.0      |                 |                 |            |      |          |       |       |        |     |                |          |
|              |           |                 |                 |            |      |          |       |       |        |     | Weight: 257 lb | FT = 20% |

#### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E  
BOT CHORD 2x6 SP 2400F 2.0E \*Except\* 20-14:2x4 SP No.2  
WEBS 2x4 SP No.3 \*Except\* 21-6,12-6:2x4 SP No.2  
SLIDER Left 2x4 SP No.3 -- 1-6-0, Right 2x4 SP No.3 -- 1-6-0

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 3-11-3 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
WEBS 1 Row at midpt 5-22, 7-11

#### REACTIONS

(size) 2=0-3-8, 10=0-3-8  
Max Horiz 2=100 (LC 14)  
Max Grav 2=2002 (LC 3), 10=1959 (LC 3)

#### FORCES

(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/28, 2-4=-3648/0, 4-6=-3573/0, 6-8=-3577/7, 8-10=-3652/0  
BOT CHORD 2-22=0/3178, 19-22=0/3007, 17-19=0/2353, 13-17=0/2353, 11-13=0/3008, 10-11=0/3181, 18-20=-171/0, 16-18=-171/0, 15-16=-171/0, 14-15=-171/0  
WEBS 4-22=-280/134, 5-21=-497/256, 5-22=-182/206, 20-21=0/1451, 6-20=0/1588, 7-12=-499/257, 6-14=0/1590, 12-14=0/1452, 7-11=-190/212, 8-11=-281/138, 16-17=-90/0, 13-15=-135/0, 18-19=-135/0

#### NOTES

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-1 to 2-10-3, Interior (1) 2-10-3 to 18-5-8, Exterior(2R) 18-5-8 to 22-1-13, Interior (1) 22-1-13 to 36-11-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- 200.0lb AC unit load placed on the bottom chord, 18-5-8 from left end, supported at two points, 5-0-0 apart.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 2x4 MT20 unless otherwise indicated.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP 2400F 2.0E .

LOAD CASE(S) Standard



April 23,2025

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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

ENGINEERING BY  
**TRENCO**  
A MiTek Affiliate

818 Soundside Road  
Edenton, NC 27932

|          |       |              |     |     |                                  |
|----------|-------|--------------|-----|-----|----------------------------------|
| Job      | Truss | Truss Type   | Qty | Ply | 10 Eagle Creek - Edisto B - Roof |
| 25040104 | A3    | Roof Special | 2   | 1   | Job Reference (optional)         |

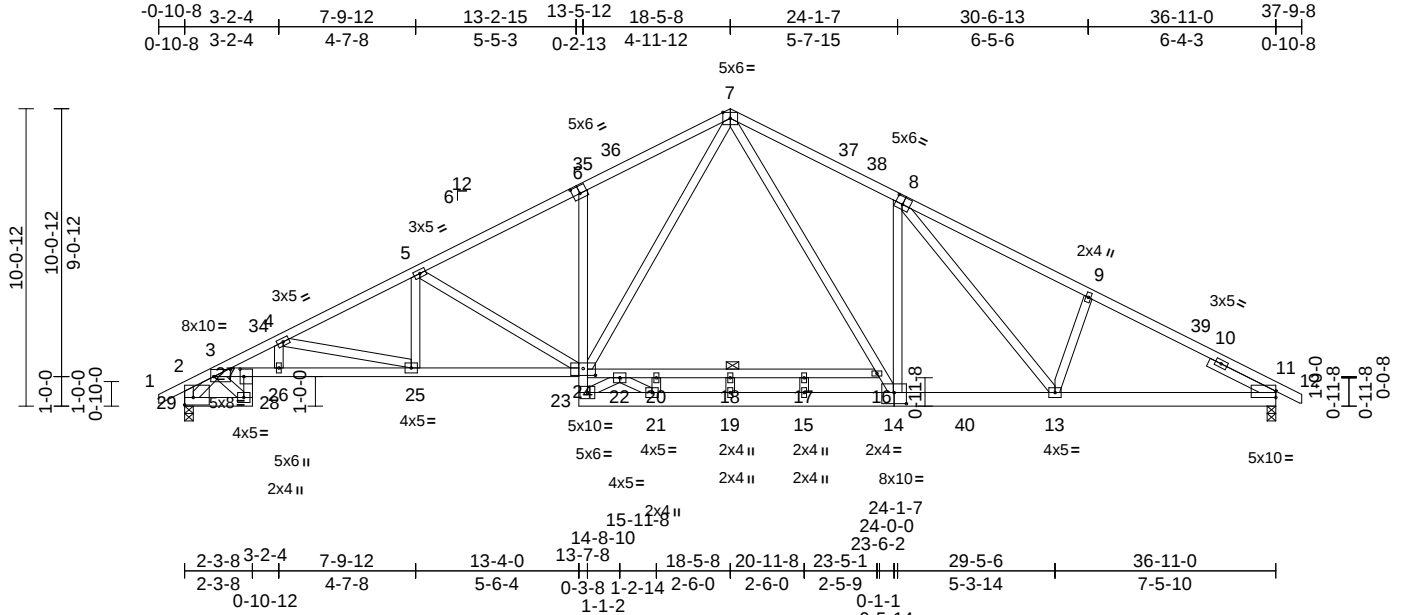
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Apr 22 13:52:25

Page: 1

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Scale = 1:77.9

Plate Offsets (X, Y): [2:Edge,0-3-0], [3:0-6-12,0-2-15], [6:0-3-0,0-3-0], [8:0-3-0,0-3-0], [11:Edge,0-2-9], [14:0-5-0,0-4-8], [24:0-5-0,0-2-12], [27:0-3-0,0-1-8]

| Loading      | (psf)     | Spacing         | 2-0-0           | CSI        |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES         | GRIP     |
|--------------|-----------|-----------------|-----------------|------------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof)  | 20.0      | Plate Grip DOL  | 1.15            | TC         | 0.46 | Vert(LL) | -0.21 | 24-25 | >999   | 240 | MT20           | 244/190  |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL      | 1.15            | BC         | 0.97 | Vert(CT) | -0.43 | 17-18 | >999   | 180 |                |          |
| TCDL         | 10.0      | Rep Stress Incr | YES             | WB         | 0.79 | Horz(CT) | 0.22  | 11    | n/a    | n/a |                |          |
| BCLL         | 0.0*      | Code            | IRC2021/TPI2014 | Matrix-MSH |      |          |       |       |        |     |                |          |
| BCDL         | 10.0      |                 |                 |            |      |          |       |       |        |     |                |          |
|              |           |                 |                 |            |      |          |       |       |        |     | Weight: 260 lb | FT = 20% |

**LUMBER**

TOP CHORD 2x4 SP 2400F 2.0E  
BOT CHORD 2x4 SP No.2 \*Except\* 3-24:2x4 SP 2400F 2.0E, 6-23:2x4 SP No.3, 23-14,14-11:2x6 SP 2400F 2.0E  
WEBS 2x4 SP No.3 \*Except\* 14-7:2x4 SP No.2  
SLIDER Right 2x4 SP No.3 -- 2-6-0

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 3-0-14 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

**REACTIONS**

(size) 11=0-3-8, 29=0-3-8  
Max Horiz 29=-111 (LC 13)  
Max Grav 11=1981 (LC 3), 29=1990 (LC 3)

**FORCES**

(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/33, 2-3=-492/13, 3-4=-5938/0, 4-5=-4489/0, 5-7=-3645/0, 7-9=-3559/0, 9-11=-3617/0, 11-12=0/28, 2-29=-637/62  
BOT CHORD 28-29=0/1697, 27-28=0/1707, 3-27=0/5114, 26-27=0/5334, 25-26=0/5334, 24-25=0/3967, 23-24=0/589, 6-24=-331/155, 21-23=0/1071, 19-21=0/2331, 15-19=0/2331, 13-15=0/2909, 11-13=0/3162, 22-24=0/2110, 20-22=-162/0, 18-20=-162/0, 17-18=-162/0, 16-17=-162/0, 4-25=-1412/29, 5-25=0/554, 5-24=-964/76, 8-14=-559/251, 8-13=-169/299, 9-13=-263/134, 7-16=0/1339, 14-16=0/1230, 7-24=0/1859, 4-26=0/705, 3-28=-2153/0, 3-29=-2104/0, 20-21=-280/0, 18-19=-100/0, 15-17=-110/0, 22-23=-1189/0, 21-22=0/1542

**NOTES**

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-1 to 2-10-3, Interior (1) 2-10-3 to 18-5-8, Exterior(2R) 18-5-8 to 22-1-13, Interior (1) 22-1-13 to 37-9-1 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- 6) 200.0lb AC unit load placed on the bottom chord, 18-5-8 from left end, supported at two points, 5-0-0 apart.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Bearings are assumed to be: Joint 29 SP No.2 , Joint 11 SP 2400F 2.0E .

LOAD CASE(S) Standard



April 23,2025

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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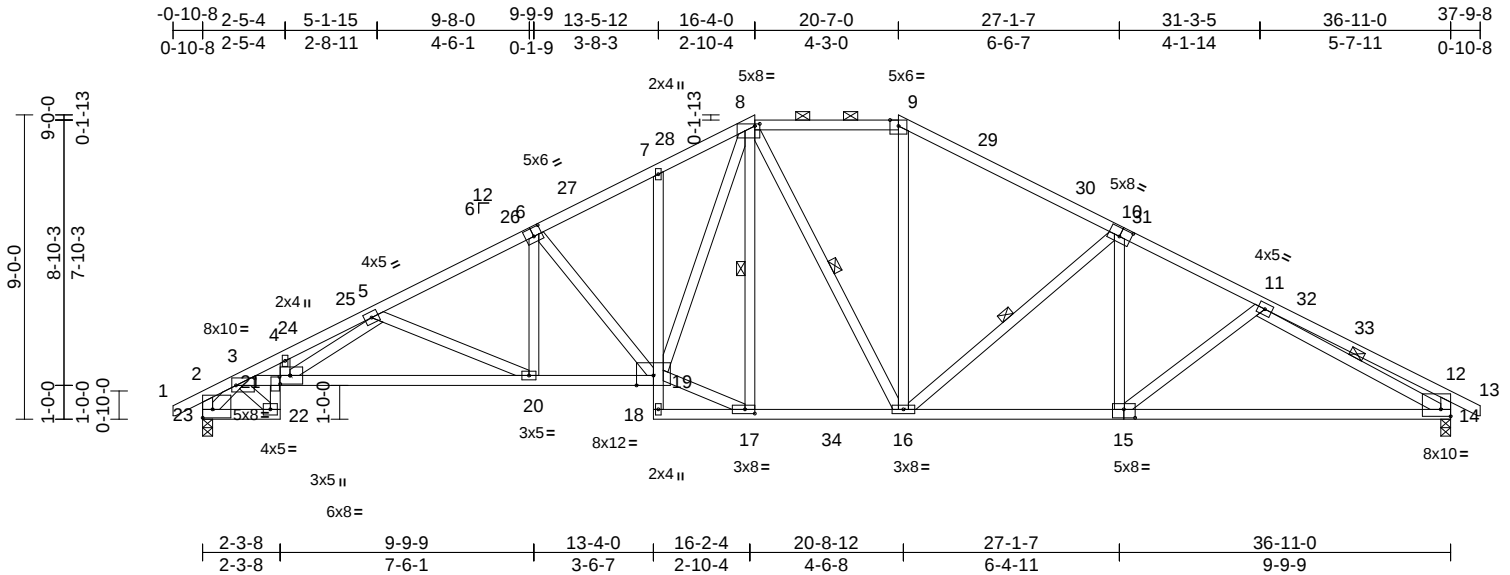
818 Soundside Road  
Edenton, NC 27932

|          |       |            |     |     |                                  |           |
|----------|-------|------------|-----|-----|----------------------------------|-----------|
| Job      | Truss | Truss Type | Qty | Ply | 10 Eagle Creek - Edisto B - Roof |           |
| 25040104 | A4    | Hip        | 1   | 1   | Job Reference (optional)         | I72941908 |

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

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Apr 22 13:52:25  
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Page: 1



Scale = 1:68.2

[2:Edge,0-3-0], [3:0-6-8,0-2-11], [6:0-3-0,0-3-0], [8:0-1-12,0-0-12], [10:0-4-0,0-3-0], [14:Edge,0-2-8], [15:0-4-0,0-3-0], [17:0-3-8,0-1-8], [21:0-3-8,0-3-0],

Plate Offsets (X, Y): [21:0-0-8,0-3-12]

| Loading                 | (psf)     | Spacing         | 2-0-0           | CSI        | DEFL | in       | (loc) | l/defl | L/d  | PLATES | GRIP    |
|-------------------------|-----------|-----------------|-----------------|------------|------|----------|-------|--------|------|--------|---------|
| TCLL (roof)             | 20.0      | Plate Grip DOL  | 1.15            | TC         | 0.78 | Vert(LL) | -0.22 | 20-21  | >999 | 240    | MT20    |
| Snow (Pf/Pg)            | 18.9/20.0 | Lumber DOL      | 1.15            | BC         | 0.80 | Vert(CT) | -0.40 | 20-21  | >999 | 180    | 244/190 |
| TCDL                    | 10.0      | Rep Stress Incr | YES             | WB         | 0.75 | Horz(CT) | 0.22  | 14     | n/a  | n/a    |         |
| BCLL                    | 0.0*      | Code            | IRC2021/TPI2014 | Matrix-MSH |      |          |       |        |      |        |         |
| BCDL                    | 10.0      |                 |                 |            |      |          |       |        |      |        |         |
| Weight: 254 lb FT = 20% |           |                 |                 |            |      |          |       |        |      |        |         |

#### LUMBER

|           |                                                                                                                                                                                                                                                                                                                                        |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TOP CHORD | 2x4 SP 2400F 2.0E                                                                                                                                                                                                                                                                                                                      |
| BOT CHORD | 2x4 SP 2400F 2.0E *Except* 22-21,7-18:2x4 SP No.3                                                                                                                                                                                                                                                                                      |
| WEBS      | 2x4 SP No.3                                                                                                                                                                                                                                                                                                                            |
| BRACING   |                                                                                                                                                                                                                                                                                                                                        |
| TOP CHORD | Structural wood sheathing directly applied or 3-2-7 oc purlins, except end verticals, and 2-0-0 oc purlins (5-8-10 max.): 8-9.                                                                                                                                                                                                         |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing.                                                                                                                                                                                                                                                                                   |
| WEBS      | 1 Row at midpt 8-17, 8-16, 10-16, 11-14                                                                                                                                                                                                                                                                                                |
| REACTIONS | (size) 14=0-3-8, 23=0-3-8<br>Max Horiz 23=103 (LC 13)<br>Max Grav 14=1738 (LC 50), 23=1748 (LC 50)                                                                                                                                                                                                                                     |
| FORCES    | (lb) - Maximum Compression/Maximum Tension                                                                                                                                                                                                                                                                                             |
| TOP CHORD | 1-2=0/33, 2-3=-396/44, 3-4=-5818/286, 4-5=-5669/316, 5-7=-3668/286, 7-8=-2981/338, 8-9=-2084/278, 9-11=-3020/268, 11-12=-886/100, 12-13=0/33, 2-23=-461/91, 12-14=-612/144, 22-23=-107/1610, 21-22=-77/1447, 3-21=-185/4593, 20-21=-227/3989, 19-20=-122/3195, 18-19=0/31, 7-19=-199/88, 17-18=-5/145, 16-17=-21/2002, 14-16=-147/2653 |
| BOT CHORD | 6-20=0/637, 6-19=-916/78, 17-19=-16/1970, 8-19=-139/1692, 8-17=-511/52, 8-16=-161/178, 9-16=-5/678, 10-16=-800/99, 10-15=0/330, 11-15=-78/90, 3-23=-1994/139, 11-14=-2276/162, 4-21=0/289, 3-22=-1716/102, 5-20=-877/115, 5-21=0/1413                                                                                                  |
| WEBS      |                                                                                                                                                                                                                                                                                                                                        |

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-10-1 to 2-10-3, Interior (1) 2-10-3 to 16-4-0, Exterior(2E) 16-4-0 to 20-7-0, Exterior(2R) 20-7-0 to 25-9-10, Interior (1) 25-9-10 to 37-9-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP 2400F 2.0E.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



April 23, 2025

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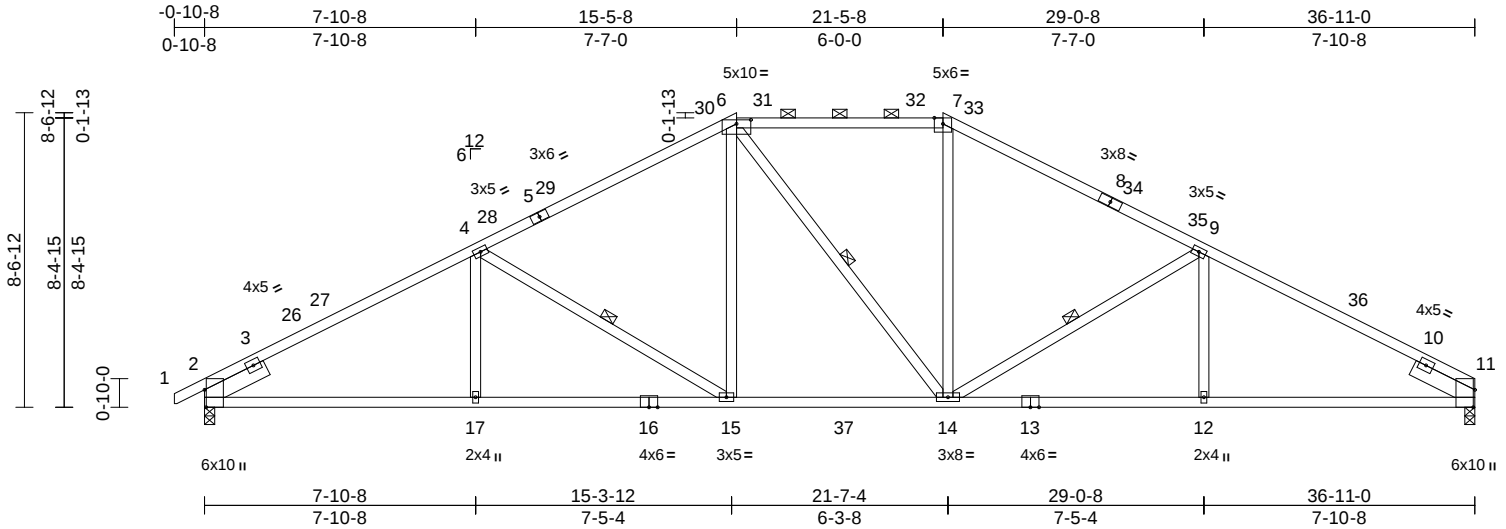
818 Soundside Road  
Edenton, NC 27932

|          |       |            |     |     |                                  |           |
|----------|-------|------------|-----|-----|----------------------------------|-----------|
| Job      | Truss | Truss Type | Qty | Ply | 10 Eagle Creek - Edisto B - Roof | 172941909 |
| 25040104 | A5    | Hip        | 1   | 1   | Job Reference (optional)         |           |

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

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Apr 22 13:52:26  
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Page: 1



Scale = 1:67

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

| Loading      | (psf)     | Spacing         | 2-0-0           | CSI        |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES         | GRIP     |
|--------------|-----------|-----------------|-----------------|------------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof)  | 20.0      | Plate Grip DOL  | 1.15            | TC         | 0.89 | Vert(LL) | -0.22 | 15-17 | >999   | 240 | MT20           | 244/190  |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL      | 1.15            | BC         | 0.97 | Vert(CT) | -0.39 | 15-17 | >999   | 180 |                |          |
| TCDL         | 10.0      | Rep Stress Incr | YES             | WB         | 0.29 | Horz(CT) | 0.14  | 11    | n/a    | n/a |                |          |
| BCLL         | 0.0*      | Code            | IRC2021/TPI2014 | Matrix-MSH |      |          |       |       |        |     |                |          |
| BCDL         | 10.0      |                 |                 |            |      |          |       |       |        |     |                |          |
|              |           |                 |                 |            |      |          |       |       |        |     | Weight: 202 lb | FT = 20% |

#### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E \*Except\* 6-7:2x4 SP No.2  
BOT CHORD 2x4 SP 2400F 2.0E \*Except\* 16-13:2x4 SP No.2  
WEBS 2x4 SP No.3  
SLIDER Left 2x6 SP 2400F 2.0E -- 2-0-0, Right 2x6 SP 2400F 2.0E -- 2-0-0

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 3-2-2 oc purlins, except 2-0-0 oc purlins (2-2-0 max.): 6-7.  
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

WEBS 1 Row at midpt 4-15, 6-14, 9-14

REACTIONS (size) 2=0-3-8, 11=0-3-8  
Max Horiz 2=84 (LC 12)  
Max Grav 2=1740 (LC 50), 11=1701 (LC 50)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/28, 2-4=-3186/252, 4-6=-2537/269, 6-7=-2168/282, 7-9=-2528/270, 9-11=-3180/253

BOT CHORD 2-17=-153/2746, 15-17=-153/2746, 14-15=-52/2094, 12-14=-148/2740, 11-12=-164/2740

WEBS 4-17=0/254, 4-15=-746/118, 6-15=0/678, 6-14=-173/174, 7-14=0/665, 9-14=-748/119, 9-12=0/256

#### NOTES

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-1 to 2-10-3, Interior (1) 2-10-3 to 15-5-8, Exterior(2R) 15-5-8 to 20-8-2, Interior (1) 20-8-2 to 21-5-8, Exterior(2R) 21-5-8 to 26-8-2, Interior (1) 26-8-2 to 36-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) All bearings are assumed to be SP 2400F 2.0E .
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



April 23, 2025

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818 Soundside Road  
Edenton, NC 27932

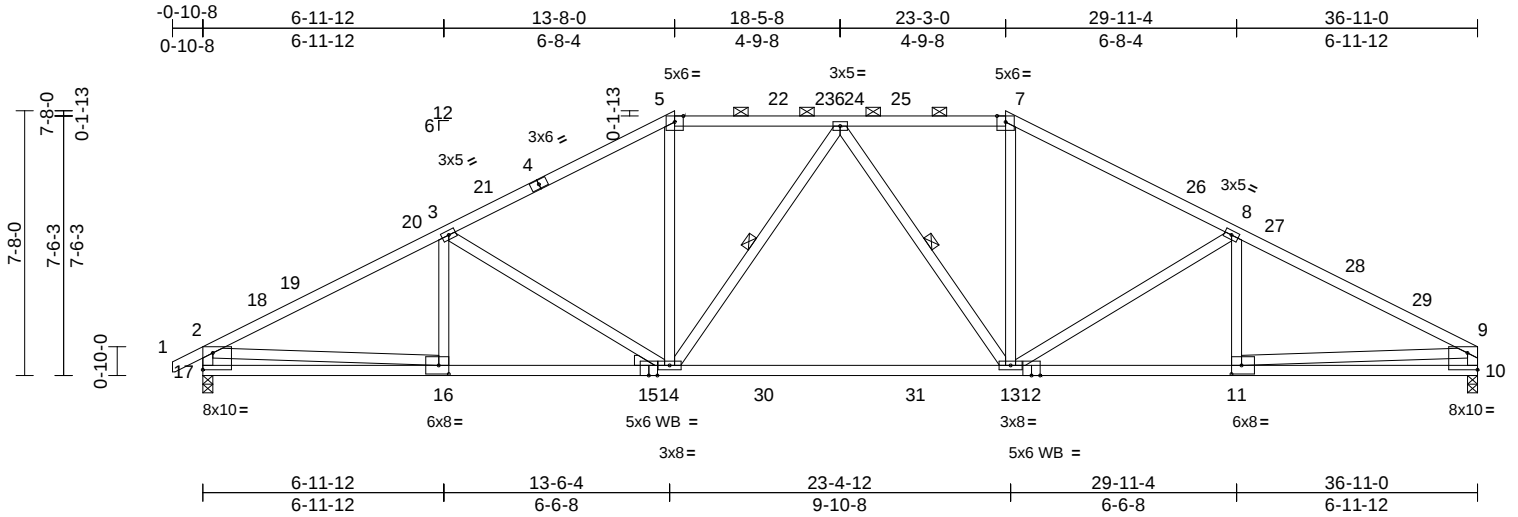
|          |       |            |     |     |                                  |           |
|----------|-------|------------|-----|-----|----------------------------------|-----------|
| Job      | Truss | Truss Type | Qty | Ply | 10 Eagle Creek - Edisto B - Roof | 172941910 |
| 25040104 | A6    | Hip        | 1   | 1   | Job Reference (optional)         |           |

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

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Apr 22 13:52:26

Page: 1

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Scale = 1:66.7

Plate Offsets (X, Y): [10:Edge,0-5-13], [11:0-3-8,0-3-0], [16:0-3-8,0-3-0], [17:Edge,0-5-13]

| Loading      | (psf)     | Spacing         | 2-0-0           | CSI        |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES         | GRIP     |
|--------------|-----------|-----------------|-----------------|------------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof)  | 20.0      | Plate Grip DOL  | 1.15            | TC         | 0.62 | Vert(LL) | -0.30 | 13-14 | >999   | 240 | MT20           | 244/190  |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL      | 1.15            | BC         | 0.52 | Vert(CT) | -0.52 | 13-14 | >840   | 180 |                |          |
| TCDL         | 10.0      | Rep Stress Incr | YES             | WB         | 0.80 | Horz(CT) | 0.07  | 10    | n/a    | n/a |                |          |
| BCLL         | 0.0*      | Code            | IRC2021/TPI2014 | Matrix-MSH |      |          |       |       |        |     |                |          |
| BCDL         | 10.0      |                 |                 |            |      |          |       |       |        |     |                |          |
|              |           |                 |                 |            |      |          |       |       |        |     | Weight: 217 lb | FT = 20% |

#### LUMBER

|           |                                            |
|-----------|--------------------------------------------|
| TOP CHORD | 2x4 SP 2400F 2.0E                          |
| BOT CHORD | 2x4 SP 2400F 2.0E                          |
| WEBS      | 2x4 SP No.3 *Except* 17-2,10-9:2x4 SP No.2 |
| OTHERS    | 2x4 SP No.3                                |

#### BRACING

|           |                                                                                                                                |
|-----------|--------------------------------------------------------------------------------------------------------------------------------|
| TOP CHORD | Structural wood sheathing directly applied or 4-6-9 oc purlins, except end verticals, and 2-0-0 oc purlins (5-6-13 max.): 5-7. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing.                                                                           |
| WEBS      | 1 Row at midpt 6-14, 6-13                                                                                                      |

|           |                                           |
|-----------|-------------------------------------------|
| REACTIONS | (size) 10=0-3-8, 17=0-3-8                 |
|           | Max Horiz 17=91 (LC 14)                   |
|           | Max Grav 10=1674 (LC 50), 17=1715 (LC 50) |

#### FORCES

|           |                                                                                                                                               |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| TOP CHORD | (lb) - Maximum Compression/Maximum Tension                                                                                                    |
|           | 1-2=0/33, 2-3=-3080/245, 3-5=-2572/257, 5-6=-2210/265, 6-7=-2211/264, 7-8=-2574/258, 8-9=-3086/244, 2-17=-1784/216, 9-10=-1735/174            |
| BOT CHORD | 16-17=-102/747, 14-16=-176/2672, 13-14=-108/2254, 11-13=-162/2687, 10-11=-64/558                                                              |
| WEBS      | 3-16=-35/117, 3-14=-593/115, 5-14=-5/769, 6-14=-336/86, 6-13=-333/86, 7-13=-9/776, 8-13=-610/118, 8-11=-52/109, 2-16=-74/1943, 9-11=-113/2136 |

#### NOTES

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-1 to 2-10-3, Interior (1) 2-10-3 to 13-8-0, Exterior(2R) 13-8-0 to 18-10-10, Interior (1) 18-10-10 to 23-3-0, Exterior(2R) 23-3-0 to 28-5-10, Interior (1) 28-5-10 to 36-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP 2400F 2.0E.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



April 23, 2025

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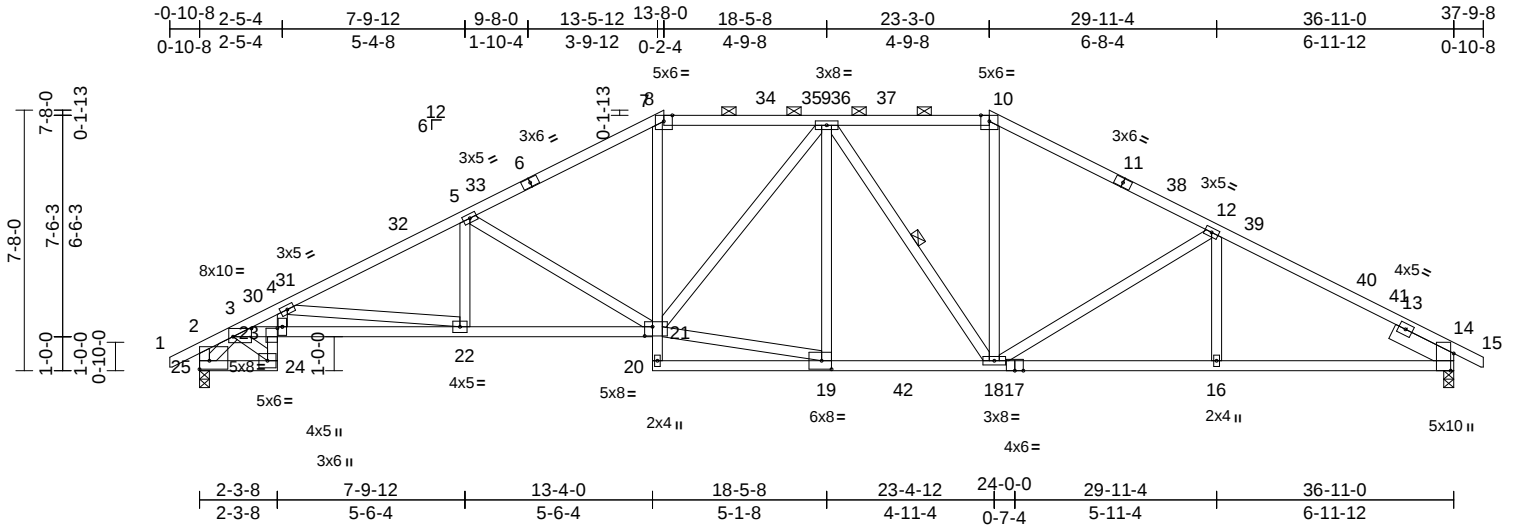
818 Soundside Road  
Edenton, NC 27932

|          |       |            |     |     |                                  |           |
|----------|-------|------------|-----|-----|----------------------------------|-----------|
| Job      | Truss | Truss Type | Qty | Ply | 10 Eagle Creek - Edisto B - Roof | I72941911 |
| 25040104 | A7    | Hip        | 1   | 1   | Job Reference (optional)         |           |

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

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Apr 22 13:52:26  
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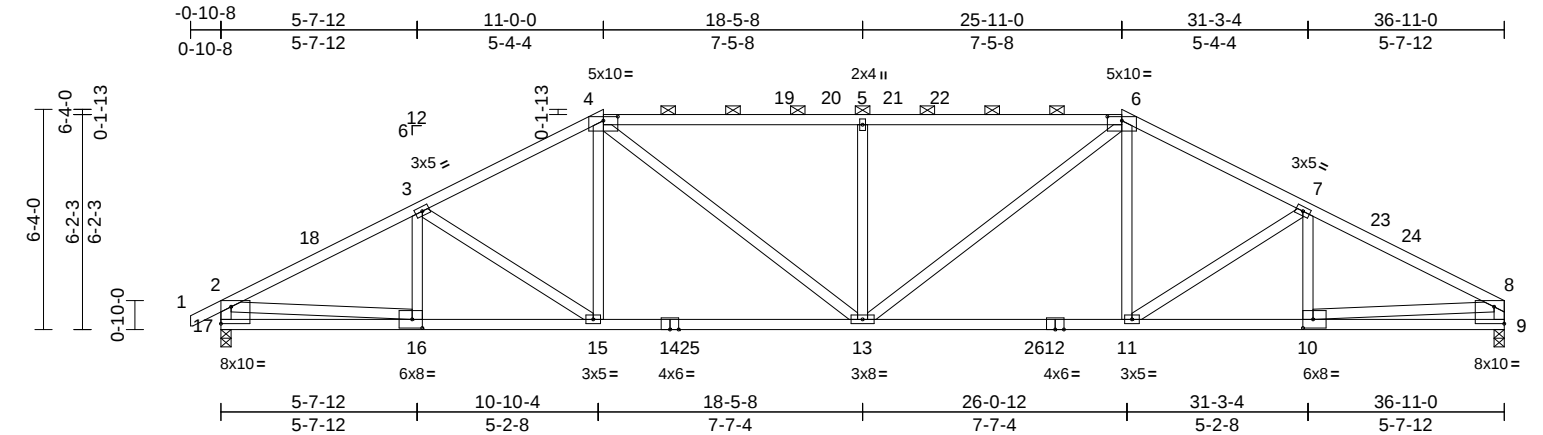
Page: 1



|          |       |            |     |     |                                  |
|----------|-------|------------|-----|-----|----------------------------------|
| Job      | Truss | Truss Type | Qty | Ply | 10 Eagle Creek - Edisto B - Roof |
| 25040104 | A8    | Hip        | 1   | 1   | Job Reference (optional)         |
|          |       |            |     |     | I72941912                        |

Carter Components (Sanford, NC), Sanford, NC - 27332,
Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Apr 22 13:52:27
Page: 1

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Scale = 1:66.3

Plate Offsets (X, Y): [4:0-5-0,0-1-7], [6:0-5-0,0-1-7], [9:Edge,0-5-13], [10:0-3-8,0-3-0], [16:0-3-8,0-3-0], [17:Edge,0-5-13]

| Loading        | (psf)     | Spacing         | 2-0-0           | CSI        | DEFL | in       | (loc) | l/defl | L/d  | PLATES | GRIP     |         |
|----------------|-----------|-----------------|-----------------|------------|------|----------|-------|--------|------|--------|----------|---------|
| TCLL (roof)    | 20.0      | Plate Grip DOL  | 1.15            | TC         | 0.77 | Vert(LL) | -0.16 | 11-13  | >999 | 240    | MT20     | 244/190 |
| Snow (Pf/Pg)   | 18.9/20.0 | Lumber DOL      | 1.15            | BC         | 0.36 | Vert(CT) | -0.29 | 11-13  | >999 | 180    |          |         |
| TCDL           | 10.0      | Rep Stress Incr | YES             | WB         | 0.80 | Horz(CT) | 0.07  | 9      | n/a  | n/a    |          |         |
| BCLL           | 0.0*      | Code            | IRC2021/TPI2014 | Matrix-MSH |      |          |       |        |      |        |          |         |
| BCDL           | 10.0      |                 |                 |            |      |          |       |        |      |        |          |         |
| Weight: 211 lb |           |                 |                 |            |      |          |       |        |      |        | FT = 20% |         |

**LUMBER**

TOP CHORD 2x4 SP 2400F 2.0E

BOT CHORD 2x4 SP 2400F 2.0E

WEBS 2x4 SP No.3

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 4-9-1 oc purlins, except end verticals, and 2-0-0 oc purlins (4-4-5 max.): 4-6.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 9=0-3-8, 17=0-3-8

Max Horiz 17=77 (LC 12)

Max Grav 9=1616 (LC 50), 17=1686 (LC 50)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/37, 2-3=-2921/237, 3-4=-2711/255, 4-5=-3044/295, 5-6=-3044/295, 6-7=-2714/259, 7-8=-2925/235, 2-17=-1774/206, 8-9=-1698/165

BOT CHORD 16-17=-82/561, 15-16=-181/2548, 13-15=-109/2362, 11-13=-106/2362, 10-11=-166/2557, 9-10=-55/444

WEBS 3-16=-101/77, 3-15=-373/86, 4-15=0/473, 4-13=-53/813, 5-13=-769/159, 6-13=-51/813, 6-11=0/481, 7-11=-388/88, 7-10=-112/80, 2-16=-100/2039, 8-10=-123/2150

**NOTES**

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-1 to 2-10-3, Interior (1) 2-10-3 to 11-0-0, Exterior(2R) 11-0-0 to 16-2-10, Interior (1) 16-2-10 to 25-11-0, Exterior(2R) 25-11-0 to 31-3-4, Interior (1) 31-3-4 to 36-9-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP 2400F 2.0E .
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard



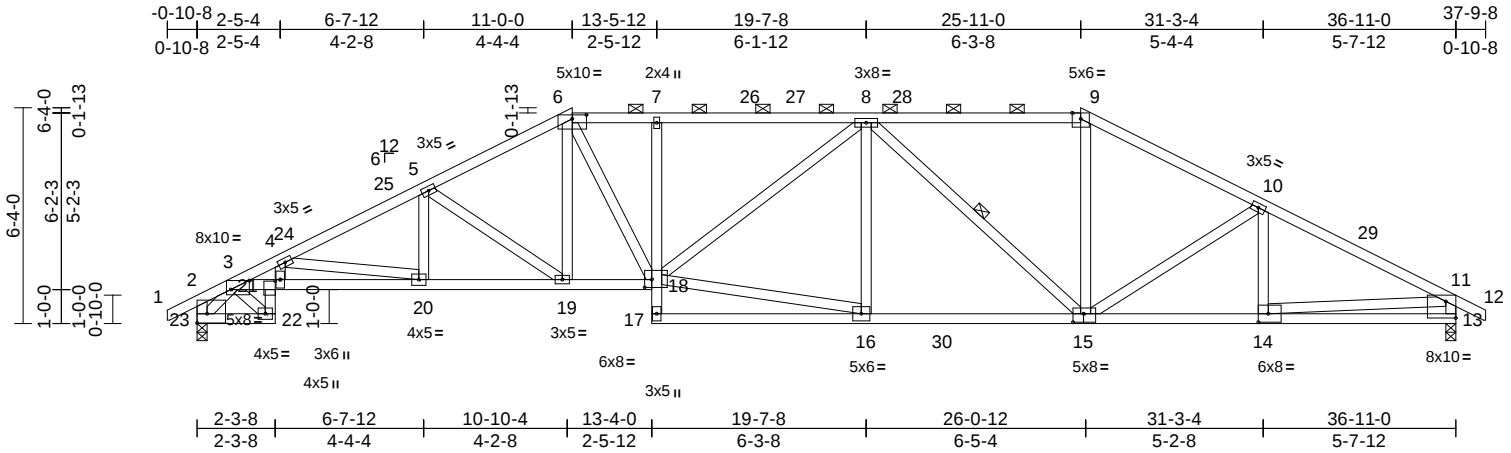
April 23,2025

|                          |       |            |     |     |                                  |
|--------------------------|-------|------------|-----|-----|----------------------------------|
| Job                      | Truss | Truss Type | Qty | Ply | 10 Eagle Creek - Edisto B - Roof |
| 25040104                 | A9    | Hip        | 1   | 1   | 172941913                        |
| Job Reference (optional) |       |            |     |     |                                  |

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

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Apr 22 13:52:27  
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Page: 1



Scale = 1:67.6

Plate Offsets (X, Y): [2:Edge,0-3-4], [3:0-6-8,0-3-3], [6:0-5-0,0-1-7], [13:Edge,0-5-13], [14:0-3-8,0-3-0], [15:0-3-12,0-3-0], [18:0-2-8,0-2-12], [21:0-0-8,0-1-12]

| Loading      | (psf)     | Spacing         | 2-0-0           | CSI        |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES         | GRIP     |
|--------------|-----------|-----------------|-----------------|------------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof)  | 20.0      | Plate Grip DOL  | 1.15            | TC         | 0.80 | Vert(LL) | -0.24 | 16-17 | >999   | 240 | MT20           | 244/190  |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL      | 1.15            | BC         | 1.00 | Vert(CT) | -0.45 | 16-17 | >970   | 180 |                |          |
| TCDL         | 10.0      | Rep Stress Incr | YES             | WB         | 0.77 | Horz(CT) | 0.25  | 13    | n/a    | n/a |                |          |
| BCLL         | 0.0*      | Code            | IRC2021/TPI2014 | Matrix-MSH |      |          |       |       |        |     |                |          |
| BCDL         | 10.0      |                 |                 |            |      |          |       |       |        |     |                |          |
|              |           |                 |                 |            |      |          |       |       |        |     | Weight: 235 lb | FT = 20% |

#### LUMBER

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2 \*Except\* 22-21,7-17:2x4 SP No.3, 3-18:2x4 SP No.1  
WEBS 2x4 SP No.3 \*Except\* 16-18:2x4 SP No.2

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 2-3-6 oc purlins, except end verticals, and 2-0-0 oc purlins (2-11-5 max.): 6-9.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:  
1-4-12 oc bracing: 20-21.  
WEBS 1 Row at midpt 8-15

#### REACTIONS

(size) 13=0-3-8, 23=0-3-8  
Max Horiz 23=-76 (LC 13)  
Max Grav 13=1664 (LC 50), 23=1670 (LC 50)

#### FORCES

(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/37, 2-3=-344/46, 3-4=-5437/365, 4-5=-3818/300, 5-6=-3140/280, 6-7=-3188/296, 7-8=-3176/296, 8-9=-2352/257, 9-10=-2656/254, 10-11=-2891/235, 11-12=0/37, 2-23=-470/95, 11-13=-1760/206  
BOT CHORD 22-23=-103/1484, 21-22=-84/1409, 3-21=-276/4495, 20-21=-300/4687, 19-20=-191/3389, 18-19=-98/2739, 17-18=0/109, 7-18=-452/105, 16-17=0/227, 14-16=-127/2911, 13-14=-47/485  
WEBS 5-19=-896/111, 6-19=-20/649, 6-18=-76/889, 16-18=-124/2719, 8-18=-13/334, 8-16=-246/103, 8-15=-829/54, 9-15=-6/841, 10-15=-395/84, 10-14=-95/79, 3-23=-1886/134, 11-14=-95/2079, 3-22=-1718/118, 4-21=0/867, 5-20=0/479, 4-20=-1396/110

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-1 to 2-10-3, Interior (1) 2-10-3 to 11-0-0, Exterior(2R) 11-0-0 to 16-2-10, Interior (1) 16-2-10 to 25-11-0, Exterior(2R) 25-11-0 to 31-3-4, Interior (1) 31-3-4 to 37-9-1 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 .
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



April 23,2025

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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

ENGINEERING BY  
**TRENCO**  
A MiTek Affiliate

818 Soundside Road  
Edenton, NC 27932

|          |       |            |     |     |                                  |
|----------|-------|------------|-----|-----|----------------------------------|
| Job      | Truss | Truss Type | Qty | Ply | 10 Eagle Creek - Edisto B - Roof |
| 25040104 | A10   | Hip        | 1   | 1   | Job Reference (optional)         |

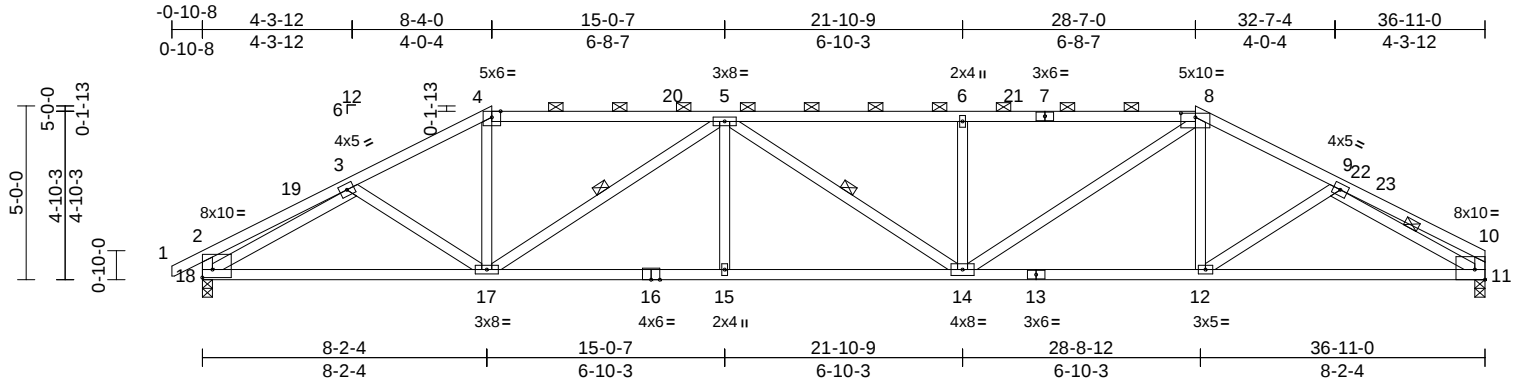
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Apr 22 13:52:27

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Scale = 1:66.3

Plate Offsets (X, Y): [2:Edge,0-2-12], [8:0-5-0,0-1-7], [10:Edge,0-3-8]

| Loading      | (psf)     | Spacing         | 2-0-0           | CSI        |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES         | GRIP     |
|--------------|-----------|-----------------|-----------------|------------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof)  | 20.0      | Plate Grip DOL  | 1.15            | TC         | 0.58 | Vert(LL) | -0.24 | 14-15 | >999   | 240 | MT20           | 244/190  |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL      | 1.15            | BC         | 0.96 | Vert(CT) | -0.45 | 14-15 | >974   | 180 |                |          |
| TCDL         | 10.0      | Rep Stress Incr | YES             | WB         | 0.98 | Horz(CT) | 0.15  | 11    | n/a    | n/a |                |          |
| BCLL         | 0.0*      | Code            | IRC2021/TPI2014 | Matrix-MSH |      |          |       |       |        |     |                |          |
| BCDL         | 10.0      |                 |                 |            |      |          |       |       |        |     |                |          |
|              |           |                 |                 |            |      |          |       |       |        |     | Weight: 203 lb | FT = 20% |

**LUMBER**

TOP CHORD 2x4 SP No.2 \*Except\* 4-7,7-8:2x4 SP 2400F 2.0E  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 3-5-7 oc purlins, except end verticals, and 2-0-0 oc purlins (3-9-0 max.): 4-8.  
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.  
 WEBS 1 Row at midpt 5-17, 5-14, 9-11

**REACTIONS**

(size) 11=0-3-8, 18=0-3-8  
 Max Horiz 18=64 (LC 14)  
 Max Grav 11=1464 (LC 2), 18=1525 (LC 2)

**FORCES**

(lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/37, 2-3=-483/55, 3-4=-2520/234, 4-5=-2244/234, 5-6=-3388/313, 6-8=-3389/314, 8-9=-2523/242, 9-10=-413/33, 2-18=-441/110, 10-11=-317/53  
 BOT CHORD 17-18=-206/2057, 15-17=-193/3377, 14-15=-193/3377, 12-14=-126/2267, 11-12=-195/2063  
 WEBS 3-17=-104/260, 4-17=-4/769, 5-17=-1364/96, 5-15=0/132, 5-14=-84/106, 6-14=-646/139, 8-14=-93/1362, 8-12=0/220, 9-12=-117/251, 3-18=-2044/209, 9-11=-2124/232

**NOTES**

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-1 to 2-10-3, Interior (1) 2-10-3 to 8-4-0, Exterior(2R) 8-4-0 to 13-6-10, Interior (1) 13-6-10 to 28-7-0, Exterior(2R) 28-7-0 to 33-9-10, Interior (1) 33-9-10 to 36-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



April 23, 2025

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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ENGINEERING BY  
**TRENCO**  
 A MiTek Affiliate

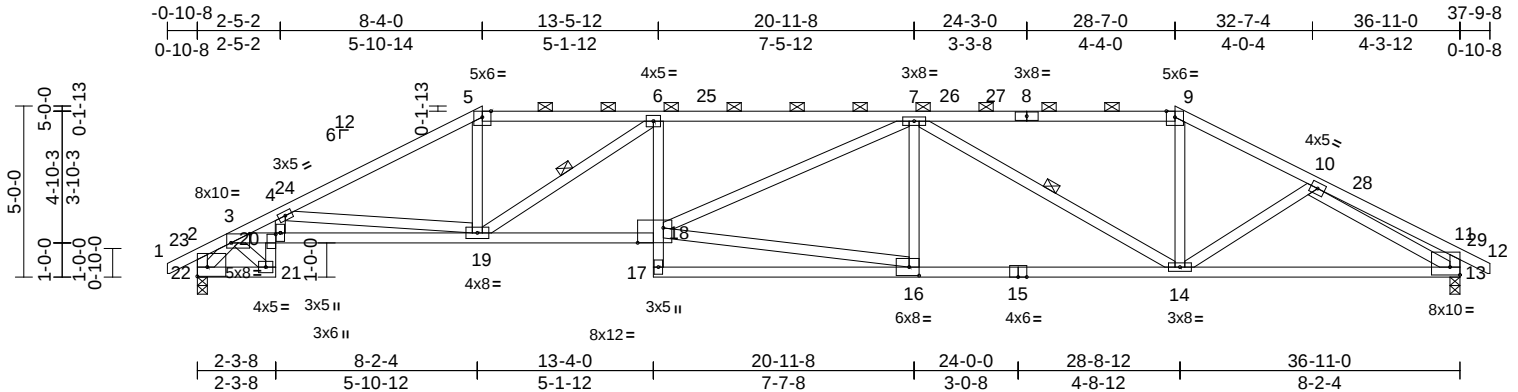
818 Soundside Road  
 Edenton, NC 27932

|          |       |            |     |     |                                  |           |
|----------|-------|------------|-----|-----|----------------------------------|-----------|
| Job      | Truss | Truss Type | Qty | Ply | 10 Eagle Creek - Edisto B - Roof | 172941915 |
| 25040104 | A11   | Hip        | 1   | 1   | Job Reference (optional)         |           |

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

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Apr 22 13:52:27  
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Page: 1



Scale = 1:67.4

Plate Offsets (X, Y): [2:Edge,0-3-4], [3:0-6-8,0-3-3], [13:Edge,0-2-12], [16:0-3-8,0-3-0], [18:0-9-0,Edge], [20:0-0-8,0-1-10]

| Loading      | (psf)     | Spacing         | 2-0-0           | CSI        |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES         | GRIP     |
|--------------|-----------|-----------------|-----------------|------------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof)  | 20.0      | Plate Grip DOL  | 1.15            | TC         | 0.60 | Vert(LL) | -0.28 | 17    | >999   | 240 | MT20           | 244/190  |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL      | 1.15            | BC         | 0.87 | Vert(CT) | -0.53 | 16-17 | >836   | 180 |                |          |
| TCDL         | 10.0      | Rep Stress Incr | YES             | WB         | 0.98 | Horz(CT) | 0.26  | 13    | n/a    | n/a |                |          |
| BCLL         | 0.0*      | Code            | IRC2021/TPI2014 | Matrix-MSH |      |          |       |       |        |     |                |          |
| BCDL         | 10.0      |                 |                 |            |      |          |       |       |        |     |                |          |
|              |           |                 |                 |            |      |          |       |       |        |     | Weight: 214 lb | FT = 20% |

#### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E  
BOT CHORD 2x4 SP 2400F 2.0E \*Except\* 21-20,6-17:2x4  
SP No.3  
WEBS 2x4 SP No.3 \*Except\* 16-18:2x4 SP No.2

#### BRACING

TOP CHORD Structural wood sheathing directly applied or  
3-8-6 oc purlins, except end verticals, and  
2-0-0 oc purlins (3-5-8 max.): 5-9.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc  
bracing.  
WEBS 1 Row at midpt 6-19, 7-14

#### REACTIONS

(size) 13=0-3-8, 22=0-3-8  
Max Horiz 22=62 (LC 13)  
Max Grav 13=1524 (LC 2), 22=1522 (LC 2)

#### FORCES

(lb) - Maximum Compression/Maximum  
Tension  
TOP CHORD 1-2=0/37, 2-3=-335/55, 3-4=-4596/389,  
4-5=-3246/267, 5-6=-2901/273,  
6-7=-4229/351, 7-9=-2255/232,  
9-10=-2528/235, 10-11=-539/62, 11-12=0/37,  
2-22=-463/105, 11-13=-467/117  
BOT CHORD 21-22=-98/1215, 20-21=-75/1155,  
3-20=-332/3859, 19-20=-366/4015,  
18-19=-211/4261, 17-18=0/78, 6-18=0/375,  
16-17=0/264, 14-16=-176/3476,  
13-14=-153/2043  
WEBS 5-19=-10/1146, 6-19=-1654/114,  
16-18=-181/3251, 7-18=-51/826,  
7-16=-354/124, 7-14=-1417/95, 9-14=0/725,  
10-14=-99/283, 10-13=-1969/197,  
4-20=0/678, 4-19=-1504/233,  
3-22=-1489/118, 3-21=-1424/105

#### NOTES

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust)  
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.  
II; Exp B; Enclosed; MWFRS (envelope) and C-C  
Exterior(2E) -0-10-1 to 2-10-3, Interior (1) 2-10-3 to  
8-4-0, Exterior(2R) 8-4-0 to 13-5-12, Interior (1) 13-5-12  
to 28-7-0, Exterior(2R) 28-7-0 to 33-9-10, Interior (1)  
33-9-10 to 37-9-1 zone; cantilever left and right  
exposed ; end vertical left and right exposed;C-C for  
members and forces & MWFRS for reactions shown;  
Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15  
Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum  
DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully  
Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this  
design.
- This truss has been designed for greater of min roof live  
load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on  
overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- \* This truss has been designed for a live load of 20.0psf  
on the bottom chord in all areas where a rectangle  
3-06-00 tall by 2-00-00 wide will fit between the bottom  
chord and any other members.
- All bearings are assumed to be SP 2400F 2.0E .
- Graphical purlin representation does not depict the size  
or the orientation of the purlin along the top and/or  
bottom chord.

LOAD CASE(S) Standard



April 23,2025

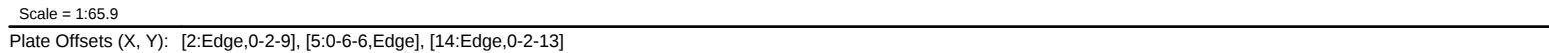
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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Edenton, NC 27932

Carter Components (Sanford, NC), Sanford, NC - 27332, Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Apr 22 13:52:29 Page: 1  
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|                  |                                                                                                                                                        |                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                        |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LUMBER</b>    |                                                                                                                                                        | 4-24=-400/61, 4-23=-111/790, 5-23=0/224,                                                                                                                                                                                                                | 2) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.                                                                                                                                                                                          |
| TOP CHORD        | 2x4 SP 2400F 2.0E *Except* 5-9-9-11:2x6 SP 2400F 2.0E                                                                                                  | 5-22=-269/2546, 6-22=-634/172, 7-22=-1220/140, 7-20=0/177, 7-19=-34/33, 8-19=-451/153, 10-19=-132/1218, 10-17=0/150, 10-16=-2560/276, 11-16=-88/1381, 12-16=-110/795, 12-15=-388/58                                                                     | 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 269 lb down and 51 lb up at 5-8-0, and 269 lb down and 51 lb up at 31-2-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others. |
| BOT CHORD        | 2x6 SP 2400F 2.0E                                                                                                                                      |                                                                                                                                                                                                                                                         | 14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).                                                                                                                                                                            |
| WEBS             | 2x4 SP No.3 *Except* 22-5,22-7,19-7,19-10,16-10:2x4 SP No.2                                                                                            |                                                                                                                                                                                                                                                         | <b>LOAD CASE(S)</b> Standard                                                                                                                                                                                                                                                           |
| OTHERS           | 2x4 SP No.3                                                                                                                                            |                                                                                                                                                                                                                                                         | 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15                                                                                                                                                                                                                   |
| SLIDER           | Left 2x4 SP No.3 -- 2-6-0, Right 2x4 SP No.3 -- 2-6-0                                                                                                  |                                                                                                                                                                                                                                                         | Uniform Loads (lb/ft)<br>Vert: 1-5=-48, 5-11=-58, 11-14=-48, 25-29=-20<br>Concentrated Loads (lb)                                                                                                                                                                                      |
| <b>BRACING</b>   |                                                                                                                                                        | <b>NOTES</b>                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                        |
| TOP CHORD        | Structural wood sheathing directly applied or 4-0-1 oc purlins, except 2-0-0 oc purlins (3-10-3 max.): 5-11.                                           | 1) Unbalanced roof live loads have been considered for this design.                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                        |
| BOT CHORD        | Rigid ceiling directly applied or 10-0-0 oc bracing.                                                                                                   | 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCdL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33 |                                                                                                                                                                                                                                                                                        |
| WEBS             | 1 Row at midpt 10-16                                                                                                                                   | 3) TcLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0                                                    |                                                                                                                                                                                                                                                                                        |
| <b>REACTIONS</b> | (size) 2=0-3-8, 14=0-3-8<br>Max Horiz 2=34 (LC 15)<br>Max Uplift 2=-192 (LC 8), 14=-191 (LC 7)<br>Max Grav 2=2184 (LC 2), 14=2133 (LC 2)               | 4) Unbalanced snow loads have been considered for this design.                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                        |
| <b>FORCES</b>    | (lb) - Maximum Compression/Maximum Tension                                                                                                             | 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.                                                                               |                                                                                                                                                                                                                                                                                        |
| TOP CHORD        | 1-2=0/32, 2-4=-3346/347, 4-5=-3849/423, 5-6=-5649/604, 6-7=-5640/601, 7-8=-6684/700, 8-10=-6684/700, 10-11=-3444/385, 11-12=-3849/421, 12-14=-3356/347 | 6) Provide adequate drainage to prevent water ponding.                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                        |
| BOT CHORD        | 2-24=-305/2896, 23-24=-305/2896, 22-23=-371/3492, 20-22=-685/6687, 19-20=-685/6687, 17-19=-559/5641, 16-17=-559/5641, 15-16=-277/2903, 14-15=-277/2903 | 7) All plates are MT20 plates unless otherwise indicated.                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                        |
|                  |                                                                                                                                                        | 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.                                                   |                                                                                                                                                                                                                                                                                        |
|                  |                                                                                                                                                        | 9) All bearings are assumed to be SP 2400F 2.0E .                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                        |
|                  |                                                                                                                                                        | 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 191 lb uplift at joint 14 and 192 lb uplift at joint 2.                                                                                                 |                                                                                                                                                                                                                                                                                        |
|                  |                                                                                                                                                        | 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.                                                                                                                        |                                                                                                                                                                                                                                                                                        |

Continued on page 2

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818 Soundside Road  
Edenton, NC 27932

|                          |       |            |     |     |                                  |
|--------------------------|-------|------------|-----|-----|----------------------------------|
| Job                      | Truss | Truss Type | Qty | Ply | 10 Eagle Creek - Edisto B - Roof |
| 25040104                 | A12   | Hip Girder | 1   | 1   | I72941916                        |
| Job Reference (optional) |       |            |     |     |                                  |

Vert: 5=-31 (B), 23=-264 (B), 7=-27 (B), 20=-19 (B),  
8=-27 (B), 19=-19 (B), 16=-264 (B), 11=-31 (B),  
33=-27 (B), 34=-27 (B), 35=-27 (B), 37=-27 (B),  
38=-27 (B), 39=-27 (B), 40=-27 (B), 42=-27 (B),  
43=-27 (B), 44=-27 (B), 45=-19 (B), 46=-19 (B),  
47=-19 (B), 48=-19 (B), 49=-19 (B), 50=-19 (B),  
51=-19 (B), 52=-19 (B), 53=-19 (B), 54=-19 (B)

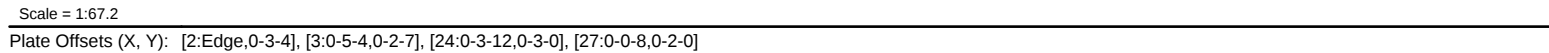
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|           |                                                                                                                                                                                                                                                                                                    |                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LUMBER    |                                                                                                                                                                                                                                                                                                    | 4-26=-994/121, 5-26=-255/2085,                                                                                                        | 7) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.                                                                                                                                                                                                                      |
| TOP CHORD | 2x4 SP 2400F 2.0E                                                                                                                                                                                                                                                                                  | 6-26=-2751/348, 6-25=0/181,                                                                                                           | 8) Provide adequate drainage to prevent water ponding.                                                                                                                                                                                                                                                                                                                                         |
| BOT CHORD | 2x4 SP 2400F 2.0E *Except* 28-27:2x4 SP No.3, 23-20,20-15:2x6 SP 2400F 2.0E                                                                                                                                                                                                                        | 6-24=-174/1654, 22-24=-678/5764,<br>8-24=-285/2008, 8-22=-1342/279,                                                                   | 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-0"-0" tall by 2'-0"-0" wide will fit between the bottom chord and any other members.                                                                                                                                                                                        |
| WEBS      | 2x4 SP No.3 *Except* 22-24,29-2:2x4 SP No.2                                                                                                                                                                                                                                                        | 10-22=-60/278, 10-21=0/205,<br>10-19=-1329/181, 11-19=-13/830,<br>11-18=-2296/281, 12-18=-103/1388,<br>13-18=-126/816, 13-17=-447/73, | 10) Bearings are assumed to be: Joint 29 SP 2400F 2.0E ,<br>Joint 15 SP 2400F 2.0E .                                                                                                                                                                                                                                                                                                           |
| SLIDER    | Right 2x4 SP No.2 -- 2-6-0                                                                                                                                                                                                                                                                         | 3-29=-2226/274, 3-28=-2087/288,<br>4-27=-82/908                                                                                       | 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 209 lb uplift at joint 15 and 255 lb uplift at joint 29.<br>12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.<br>13) "NAILED" indicates 3-10d (.0148"x3") or 3-12d (.0148"x3.25") toe-nails per NDS guidelines. |
| BRACING   |                                                                                                                                                                                                                                                                                                    |                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                |
| TOP CHORD | Structural wood sheathing directly applied or 6'-0" oc purlins, except end verticals, and 2'-0" oc purlins (5'-10" max.): 5-12.                                                                                                                                                                    |                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                |
| BOT CHORD | Rigid ceiling directly applied or 10'-0" oc bracing.                                                                                                                                                                                                                                               |                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                |
| REACTIONS | (size)<br>Max Horiz<br>Max Uplift<br>Max Grav                                                                                                                                                                                                                                                      | 15=0-3-8, 29=0-3-8<br>29=-45 (LC 9)<br>15=-209 (LC 7), 29=-255 (LC 8)<br>15=2174 (LC 2), 29=2199 (LC 2)                               |                                                                                                                                                                                                                                                                                                                                                                                                |
| FORCES    | (lb) - Maximum Compression/Maximum Tension                                                                                                                                                                                                                                                         |                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                |
| TOP CHORD | 1-2=0/37, 2-3=-466/71, 3-4=-6620/851,<br>4-5=-5425/747, 5-6=-4928/686,<br>6-7=-8747/1100, 7-8=-8494/1070,<br>8-10=-6657/806, 10-11=-5351/635,<br>11-12=-3464/419, 12-13=-3879/459,<br>13-15=-3326/371, 15-16=0/32, 2-29=-581/75                                                                    |                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                |
| BOT CHORD | 28-29=-245/1796, 27-28=-218/1686,<br>3-27=-704/5456, 26-27=-744/5708,<br>25-26=-935/7303, 24-25=-935/7303,<br>23-24=0/172, 7-24=-350/106,<br>22-23=-124/1071, 21-22=-727/6445,<br>19-21=-727/6445, 18-19=-580/5351,<br>17-18=-293/2886, 15-17=-293/2886                                            |                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                |
| NOTES     |                                                                                                                                                                                                                                                                                                    |                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                |
| 1)        | 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:<br>Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.<br>Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.<br>Web connected as follows: 2x4 - 1 row at 0-9-0 oc. |                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                |
| 2)        | 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.                                              |                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                |
| 3)        | Unbalanced roof live loads have been considered for this design.                                                                                                                                                                                                                                   |                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                |
| 4)        | Wind: ASCE 7-16; Vult=130mph (3-second gust)<br>Vasd=103mph; TC DL =6.0psf; BC DL =6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed;<br>Lumber DOL=1.60 plate grip DOL=1.33                                     |                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                |
| 5)        | TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0                                                                                                  |                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                |
| 6)        | Unbalanced snow loads have been considered for this design.                                                                                                                                                                                                                                        |                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                |



Continued on page 2

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 Edenton, NC 27932

|          |       |            |     |     |                                  |
|----------|-------|------------|-----|-----|----------------------------------|
| Job      | Truss | Truss Type | Qty | Ply | 10 Eagle Creek - Edisto B - Roof |
| 25040104 | A13   | Hip Girder | 1   | 2   | I72941917                        |
|          |       |            |     |     | Job Reference (optional)         |

14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 295 lb down and 89 lb up at 5-8-0, and 33 lb down at 13-5-12, and 269 lb down and 42 lb up at 31-2-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (lb/ft)  
Vert: 1-2=-48, 2-5=-48, 5-12=-58, 12-16=-48, 28-29=-20, 24-27=-20, 23-30=-20  
Concentrated Loads (lb)  
Vert: 5=-19 (F), 24=-22 (F), 7=-23 (F), 26=-292 (F), 6=-17 (F), 25=-30 (F), 22=-22 (F), 8=-23 (F), 18=-269 (F), 12=-28 (F), 34=-17 (F), 35=-17 (F), 37=-23 (F), 38=-23 (F), 39=-23 (F), 40=-23 (F), 42=-23 (F), 43=-23 (F), 44=-23 (F), 45=-30 (F), 46=-30 (F), 47=-22 (F), 48=-22 (F), 49=-22 (F), 50=-22 (F), 51=-22 (F), 52=-22 (F), 53=-22 (F)

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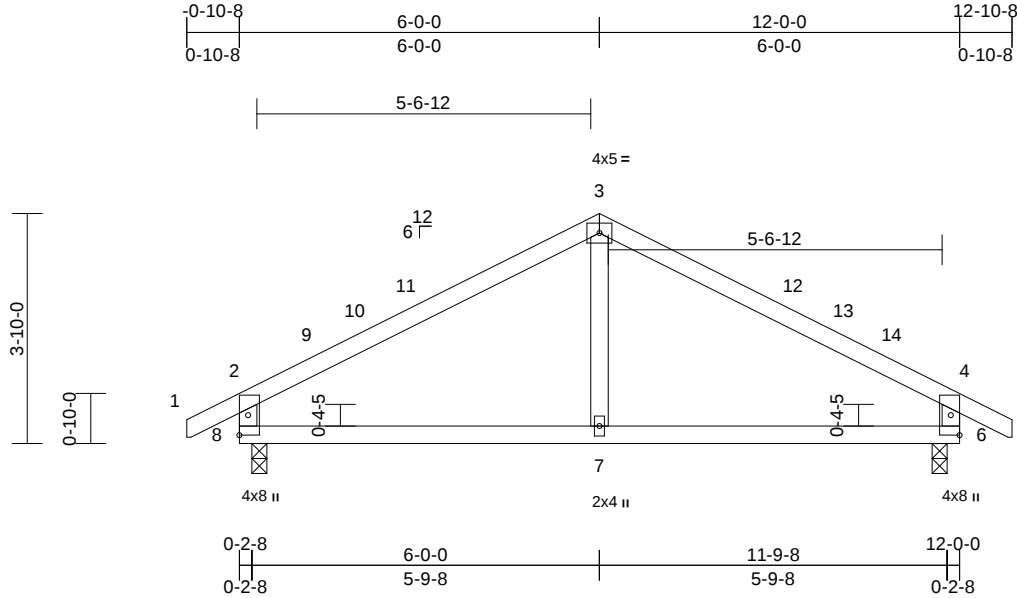
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Edenton, NC 27932

|          |       |            |     |     |                                  |           |
|----------|-------|------------|-----|-----|----------------------------------|-----------|
| Job      | Truss | Truss Type | Qty | Ply | 10 Eagle Creek - Edisto B - Roof |           |
| 25040104 | B1    | Common     | 2   | 1   | Job Reference (optional)         | I72941918 |

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Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Apr 22 13:52:31  
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Page: 1



Scale = 1:38.4

| Loading      | (psf)     | Spacing         | 2-0-0           | CSI       |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES        | GRIP     |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof)  | 20.0      | Plate Grip DOL  | 1.15            | TC        | 0.74 | Vert(LL) | -0.02 | 7-8   | >999   | 240 | MT20          | 244/190  |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL      | 1.15            | BC        | 0.27 | Vert(CT) | -0.05 | 7-8   | >999   | 180 |               |          |
| TCDL         | 10.0      | Rep Stress Incr | YES             | WB        | 0.06 | Horz(CT) | 0.01  | 6     | n/a    | n/a |               |          |
| BCLL         | 0.0*      | Code            | IRC2021/TPI2014 | Matrix-MR |      |          |       |       |        |     |               |          |
| BCDL         | 10.0      |                 |                 |           |      |          |       |       |        |     |               |          |
|              |           |                 |                 |           |      |          |       |       |        |     | Weight: 47 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 or 6'-0" oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 10'-0" oc bracing.                                  |

#### REACTIONS

(size) 6=0-3-0, 8=0-3-0  
Max Horiz 8=51 (LC 14)  
Max Grav 6=528 (LC 2), 8=528 (LC 2)

#### FORCES

(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/33, 2-3=-571/188, 3-4=-571/188, 4-5=0/33, 2-8=-489/231, 4-6=-489/231  
BOT CHORD 7-8=-68/431, 6-7=-68/431  
WEBS 3-7=0/123

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-1 to 2-1-15, Interior (1) 2-1-15 to 6-0-0, Exterior(2R) 6-0-0 to 9-0-0, Interior (1) 9-0-0 to 12-10-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.

- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06"-00 tall by 2'-00"-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .

LOAD CASE(S) Standard



April 23, 2025

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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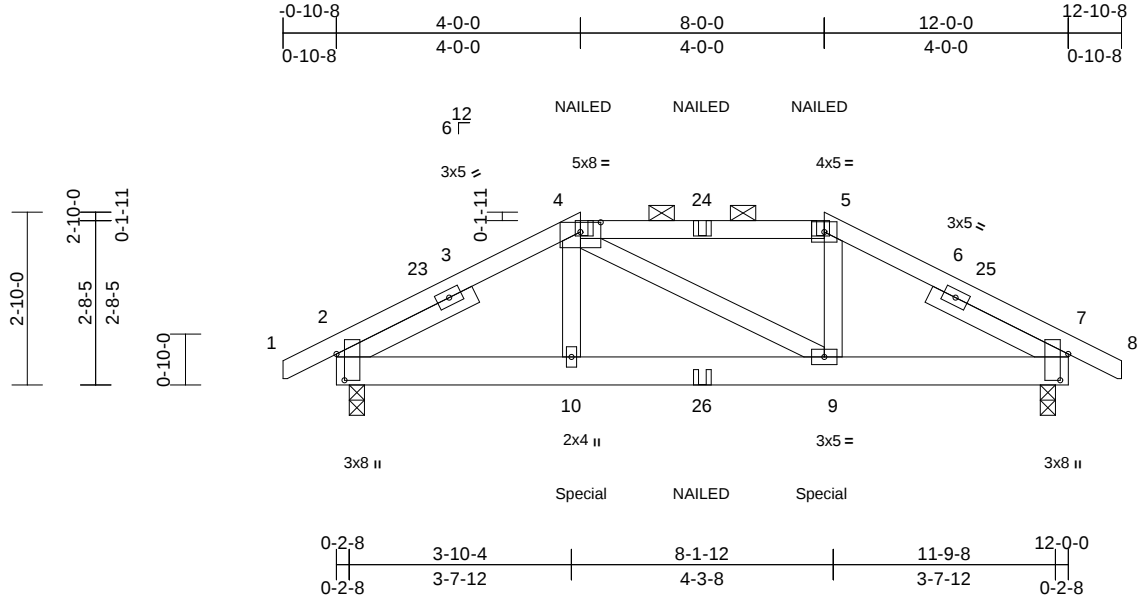
818 Soundside Road  
Edenton, NC 27932

|          |       |            |     |     |                                  |           |
|----------|-------|------------|-----|-----|----------------------------------|-----------|
| Job      | Truss | Truss Type | Qty | Ply | 10 Eagle Creek - Edisto B - Roof |           |
| 25040104 | B2    | Hip Girder | 1   | 1   | Job Reference (optional)         | I72941919 |

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

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Page: 1



Scale = 1:37.8

Plate Offsets (X, Y): [2:0-5-3,0-1-9], [4:0-4-0,0-1-15], [7:0-5-3,0-1-9]

| Loading      | (psf)     | Spacing         | 2-0-0           | CSI        | DEFL | in       | (loc) | l/defl | L/d  | PLATES        | GRIP     |
|--------------|-----------|-----------------|-----------------|------------|------|----------|-------|--------|------|---------------|----------|
| TCLL (roof)  | 20.0      | Plate Grip DOL  | 1.15            | TC         | 0.57 | Vert(LL) | -0.03 | 9-10   | >999 | 240           | 244/190  |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL      | 1.15            | BC         | 0.22 | Vert(CT) | -0.05 | 9-10   | >999 | 180           |          |
| TCDL         | 10.0      | Rep Stress Incr | NO              | WB         | 0.09 | Horz(CT) | 0.01  | 7      | n/a  | n/a           |          |
| BCLL         | 0.0*      | Code            | IRC2021/TPI2014 | Matrix-MSH |      |          |       |        |      |               |          |
| BCDL         | 10.0      |                 |                 |            |      |          |       |        |      |               |          |
|              |           |                 |                 |            |      |          |       |        |      | Weight: 71 lb | FT = 20% |

#### LUMBER

|           |                                                       |
|-----------|-------------------------------------------------------|
| TOP CHORD | 2x4 SP No.2                                           |
| BOT CHORD | 2x6 SP 2400F 2.0E                                     |
| WEBS      | 2x4 SP No.3                                           |
| SLIDER    | Left 2x4 SP No.3 -- 2-6-0, Right 2x4 SP No.3 -- 2-6-0 |

#### BRACING

|           |                                                                                                             |
|-----------|-------------------------------------------------------------------------------------------------------------|
| TOP CHORD | Structural wood sheathing directly applied or 5-3-9 oc purlins, except 2-0-0 oc purlins (5-0-15 max.): 4-5. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing.                                                        |

#### REACTIONS

|            |                              |
|------------|------------------------------|
| (size)     | 2=0-3-0, 7=0-3-0             |
| Max Horiz  | 2=-24 (LC 9)                 |
| Max Uplift | 2=-43 (LC 11), 7=-43 (LC 12) |
| Max Grav   | 2=949 (LC 36), 7=949 (LC 36) |

#### FORCES

|                                            |                                                             |
|--------------------------------------------|-------------------------------------------------------------|
| (lb) - Maximum Compression/Maximum Tension |                                                             |
| TOP CHORD                                  | 1-2=0/32, 2-4=-1096/71, 4-5=-943/77, 5-7=-1091/70, 7-8=0/32 |
| BOT CHORD                                  | 2-10=-39/959, 9-10=-42/947, 7-9=-24/954                     |
| WEBS                                       | 4-10=0/211, 4-9=-46/37, 5-9=0/208                           |

#### NOTES

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

- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP 2400F 2.0E .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 2 and 43 lb uplift at joint 7.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 230 lb down and 15 lb up at 4-0-0, and 230 lb down and 15 lb up at 7-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (lb/ft)  
Vert: 1-4=-48, 4-5=-58, 5-8=-48, 11-17=-20  
Concentrated Loads (lb)  
Vert: 5=-74 (B), 10=-230 (B), 9=-230 (B), 4=-74 (B), 24=-69 (B), 26=-25 (B)



April 23,2025

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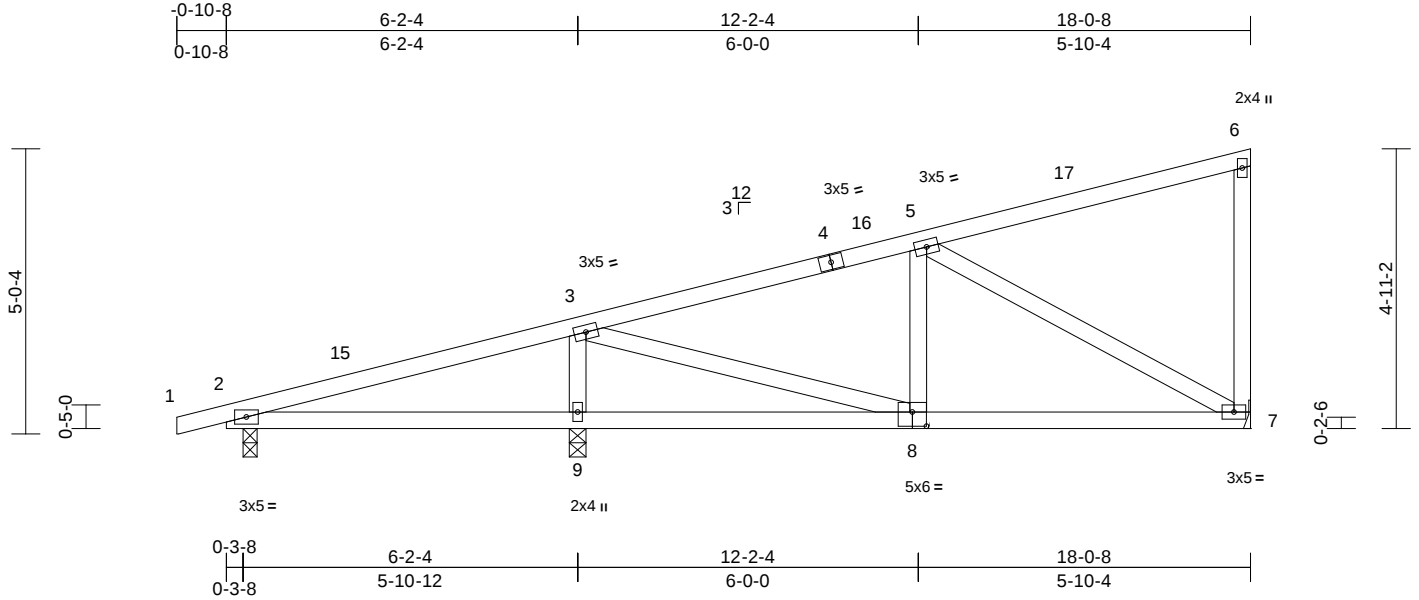
818 Soundside Road  
Edenton, NC 27932

|          |       |            |     |     |                                  |           |
|----------|-------|------------|-----|-----|----------------------------------|-----------|
| Job      | Truss | Truss Type | Qty | Ply | 10 Eagle Creek - Edisto B - Roof |           |
| 25040104 | C1    | Monopitch  | 4   | 1   | Job Reference (optional)         | I72941920 |

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

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Page: 1



Scale = 1:40.6

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

| Loading      | (psf)     | Spacing         | 2-0-0           | CSI        |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES        | GRIP     |
|--------------|-----------|-----------------|-----------------|------------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof)  | 20.0      | Plate Grip DOL  | 1.15            | TC         | 0.43 | Vert(LL) | -0.02 | 9-14  | >999   | 240 | MT20          | 244/190  |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL      | 1.15            | BC         | 0.24 | Vert(CT) | -0.05 | 9-14  | >999   | 180 |               |          |
| TCDL         | 10.0      | Rep Stress Incr | YES             | WB         | 0.46 | Horz(CT) | 0.01  | 7     | n/a    | n/a |               |          |
| BCLL         | 0.0*      | Code            | IRC2021/TPI2014 | Matrix-MSH |      |          |       |       |        |     |               |          |
| BCDL         | 10.0      |                 |                 |            |      |          |       |       |        |     |               |          |
|              |           |                 |                 |            |      |          |       |       |        |     | Weight: 87 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 or 6'-0" oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.

**REACTIONS** (size) 2=0-3-0, 7= Mechanical, 9=0-3-8  
Max Horiz 2=136 (LC 14)  
Max Uplift 2=-23 (LC 11), 7=-16 (LC 15), 9=-12 (LC 11)  
Max Grav 2=320 (LC 2), 7=496 (LC 22), 9=693 (LC 2)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/16, 2-3=-258/108, 3-5=-613/118, 5-6=-111/76, 6-7=-167/90  
BOT CHORD 2-9=-146/250, 7-9=-161/567  
WEBS 5-7=-577/116, 3-9=-551/155, 3-8=-19/371, 5-8=0/92

#### NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-5 to 2-1-11, Interior (1) 2-1-11 to 17-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.

- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-0"-0" tall by 2'-0"-0" wide will fit between the bottom chord and any other members.
- 6) Bearings are assumed to be: Joint 2 SP No.2, Joint 9 SP No.2.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 7, 12 lb uplift at joint 9 and 23 lb uplift at joint 2.

**LOAD CASE(S)** Standard



April 23, 2025

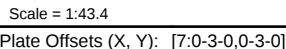
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|                     |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LUMBER</b>       |                                                                                       | 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.<br>5) Bearings are assumed to be: Joint 1 SP No.2 , Joint 8 SP No.2 .<br>6) Refer to girder(s) for truss to truss connections.<br>7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 6, 11 lb uplift at joint 8 and 1 lb uplift at joint 1. |
| TOP CHORD           | 2x4 SP No.2                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| BOT CHORD           | 2x4 SP No.2                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| WEBS                | 2x4 SP No.3                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>BRACING</b>      |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| TOP CHORD           | Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| BOT CHORD           | Rigid ceiling directly applied or 10-0-0 oc bracing.                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>REACTIONS</b>    | (size)                                                                                | 1=0-3-0, 6= Mechanical, 8=0-3-8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                     | Max Horiz                                                                             | 1=123 (16.14)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>LOAD CASE(S)</b> |                                                                                       | Standard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

Max Flex 1-155 (LC 14)  
 Max Uplift 1-1=1 (LC 11), 6=-17 (LC 15), 8=-11 (LC 15)  
 Max Grav 1=268 (LC 2), 6=496 (LC 21), 8=690 (LC 2)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-283/82, 2-4=-618/123, 4-5=-111/76, 5-6=-168/91

BOT CHORD 1-8=-168/268, 6-8=-163/570

WEBS 4-6=-582/118, 2-8=-546/153, 2-7=-13/350, 4-7=0/92

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust)  
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 17-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 2) TCLK: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1-0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.



April 23, 2025



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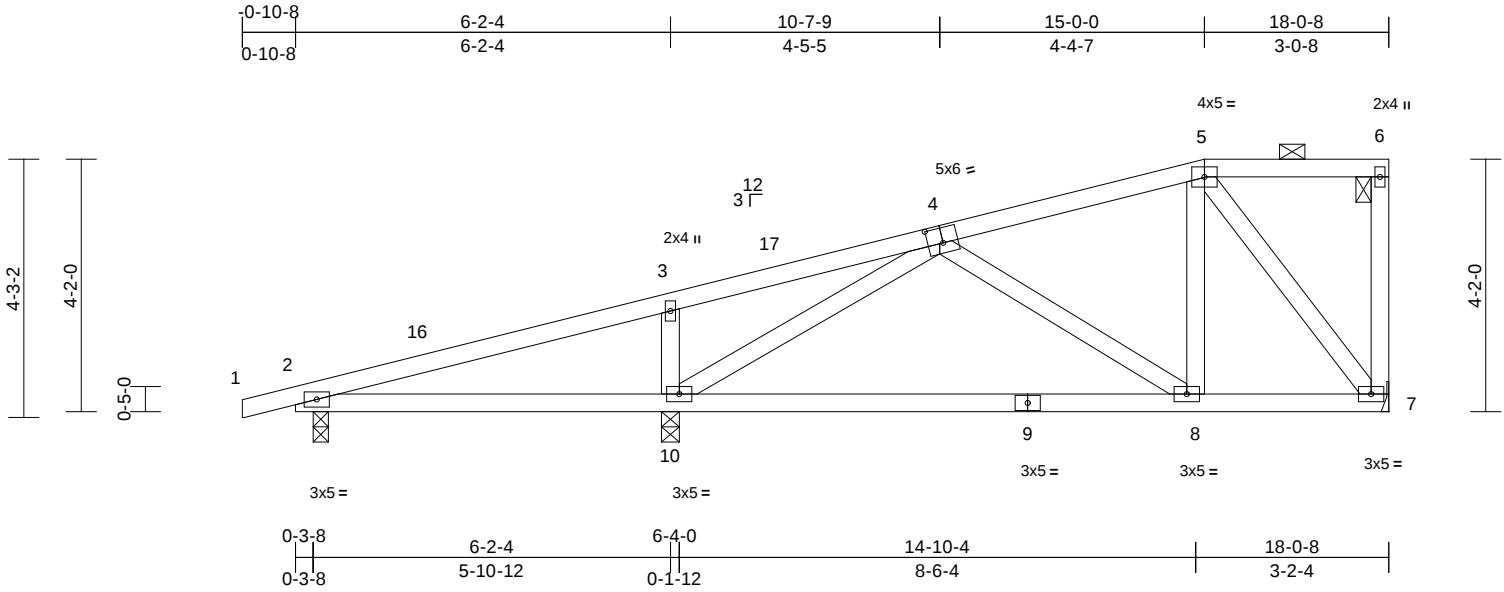
818 Soundside Road  
Edenton, NC 27932

|          |       |            |     |     |                                  |           |
|----------|-------|------------|-----|-----|----------------------------------|-----------|
| Job      | Truss | Truss Type | Qty | Ply | 10 Eagle Creek - Edisto B - Roof | 172941922 |
| 25040104 | C3    | Half Hip   | 1   | 1   | Job Reference (optional)         |           |

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

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Page: 1



Scale = 1:38

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

| Loading      | (psf)     | Spacing         | 2-0-0           | CSI        | DEFL | in       | (loc) | l/defl | L/d  | PLATES        | GRIP     |
|--------------|-----------|-----------------|-----------------|------------|------|----------|-------|--------|------|---------------|----------|
| TCLL (roof)  | 20.0      | Plate Grip DOL  | 1.15            | TC         | 0.41 | Vert(LL) | -0.03 | 10-15  | >999 | 240           | 244/190  |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL      | 1.15            | BC         | 0.42 | Vert(CT) | -0.11 | 8-10   | >999 | 180           |          |
| TCDL         | 10.0      | Rep Stress Incr | YES             | WB         | 0.24 | Horz(CT) | 0.01  | 7      | n/a  | n/a           |          |
| BCLL         | 0.0*      | Code            | IRC2021/TPI2014 | Matrix-MSH |      |          |       |        |      |               |          |
| BCDL         | 10.0      |                 |                 |            |      |          |       |        |      |               |          |
|              |           |                 |                 |            |      |          |       |        |      | Weight: 90 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 or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 2=0-3-0, 7= Mechanical, 10=0-3-8  
Max Horiz 2=115 (LC 14)  
Max Uplift 2=-35 (LC 11), 7=-18 (LC 11)  
Max Grav 2=371 (LC 41), 7=465 (LC 2), 10=806 (LC 41)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/16, 2-3=-249/109, 3-5=-399/104, 5-6=-68/76, 6-7=-101/49  
BOT CHORD 2-10=-167/253, 8-10=-259/570, 7-8=-135/352  
WEBS 3-10=-405/132, 5-8=0/284, 5-7=-520/143, 4-8=-255/149, 4-10=-400/108

#### NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-5 to 2-1-11, Interior (1) 2-1-11 to 15-0-0, Exterior(2E) 15-0-0 to 17-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0

- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 2 SP No.2, Joint 10 SP No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 7 and 35 lb uplift at joint 2.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard



April 23, 2025

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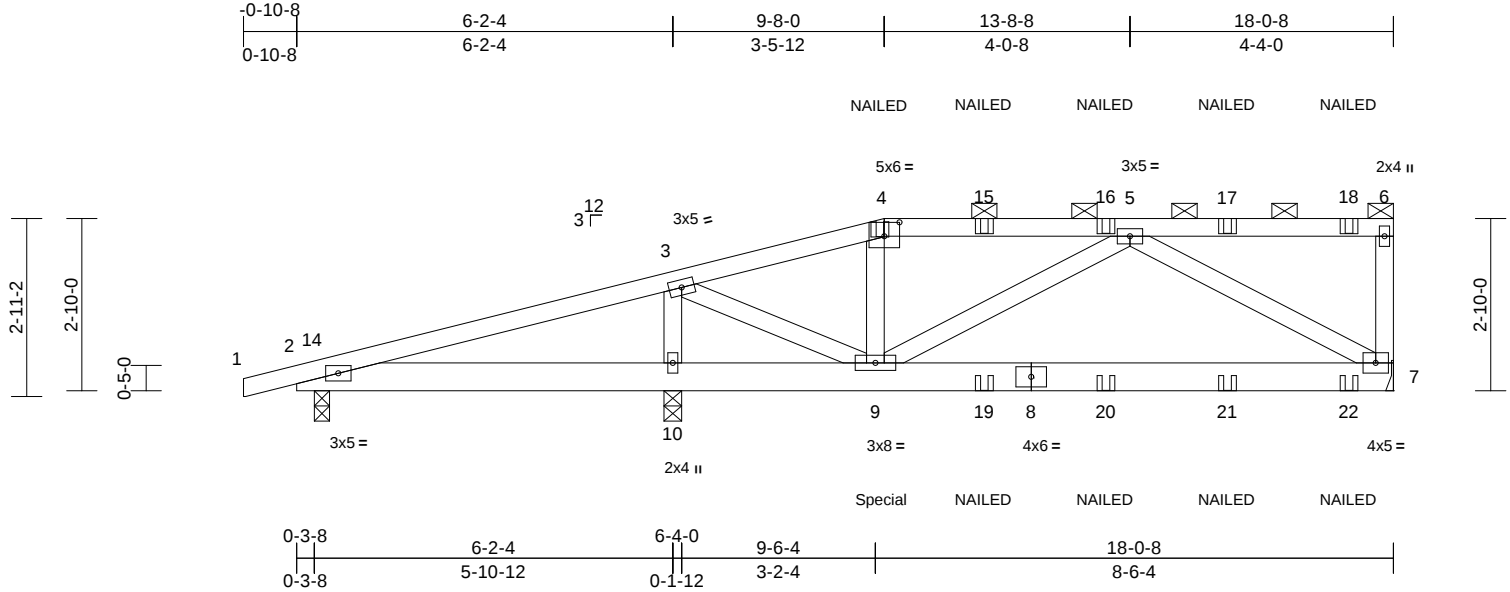
|          |       |                 |     |     |                                  |           |
|----------|-------|-----------------|-----|-----|----------------------------------|-----------|
| Job      | Truss | Truss Type      | Qty | Ply | 10 Eagle Creek - Edisto B - Roof | 172941923 |
| 25040104 | C4    | Half Hip Girder | 1   | 1   | Job Reference (optional)         |           |

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

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Scale = 1:37.9

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

| Loading      | (psf)     | Spacing         | 2-0-0           | CSI        |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES        | GRIP     |
|--------------|-----------|-----------------|-----------------|------------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof)  | 20.0      | Plate Grip DOL  | 1.15            | TC         | 0.41 | Vert(LL) | -0.02 | 10-13 | >999   | 240 | MT20          | 244/190  |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL      | 1.15            | BC         | 0.34 | Vert(CT) | -0.06 | 7-9   | >999   | 180 |               |          |
| TCDL         | 10.0      | Rep Stress Incr | NO              | WB         | 0.27 | Horz(CT) | 0.00  | 7     | n/a    | n/a |               |          |
| BCLL         | 0.0*      | Code            | IRC2021/TPI2014 | Matrix-MSH |      |          |       |       |        |     |               |          |
| BCDL         | 10.0      |                 |                 |            |      |          |       |       |        |     |               |          |
|              |           |                 |                 |            |      |          |       |       |        |     | Weight: 97 lb | FT = 20% |

#### LUMBER

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

#### BRACING

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.): 4-6.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS** (size) 2=0-3-0, 7= Mechanical, 10=0-3-8  
Max Horiz 2=74 (LC 10)  
Max Uplift 2=-42 (LC 70), 7=-75 (LC 8), 10=-104 (LC 7)  
Max Grav 2=302 (LC 61), 7=534 (LC 32), 10=812 (LC 33)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/16, 2-3=-94/113, 3-4=-496/85, 4-5=-462/91, 5-6=-56/16, 6-7=-142/49  
BOT CHORD 2-10=-121/102, 9-10=-121/24, 7-9=-148/532  
WEBS 3-10=-632/118, 3-9=-87/610, 4-9=-105/55, 5-9=-184/76, 5-7=-573/159

#### NOTES

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

- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 2 SP No.2 , Joint 10 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 7, 104 lb uplift at joint 10 and 42 lb uplift at joint 2.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 98 lb down and 119 lb up at 9-7-2 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (lb/ft)  
Vert: 1-4=-48, 4-6=-58, 7-11=-20  
Concentrated Loads (lb)  
Vert: 4=-5 (B), 9=51 (B), 15=-5 (B), 16=-5 (B), 17=-5 (B), 18=-12 (B), 19=-9 (B), 20=-9 (B), 21=-9 (B), 22=-13 (B)



April 23,2025

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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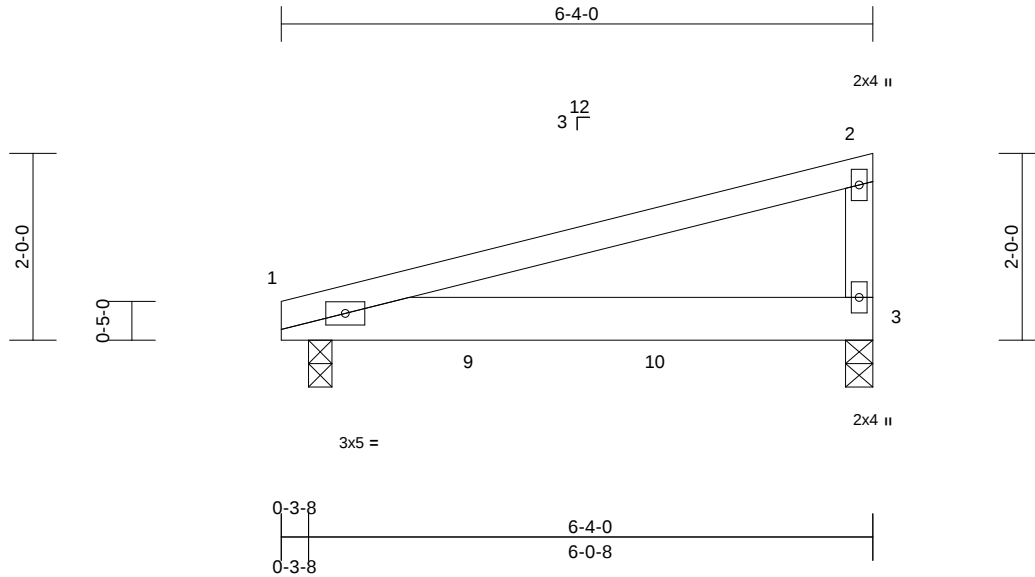
818 Soundside Road  
Edenton, NC 27932

|          |       |                  |     |     |                                  |           |
|----------|-------|------------------|-----|-----|----------------------------------|-----------|
| Job      | Truss | Truss Type       | Qty | Ply | 10 Eagle Creek - Edisto B - Roof |           |
| 25040104 | C5    | Monopitch Girder | 1   | 2   | Job Reference (optional)         | I72941924 |

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

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Scale = 1:24.7

| Loading      | (psf)     | Spacing         | 2-0-0           | CSI       |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES        | GRIP     |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof)  | 20.0      | Plate Grip DOL  | 1.15            | TC        | 0.29 | Vert(LL) | -0.03 | 3-8   | >999   | 240 | MT20          | 244/190  |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL      | 1.15            | BC        | 0.33 | Vert(CT) | -0.06 | 3-8   | >999   | 180 |               |          |
| TCDL         | 10.0      | Rep Stress Incr | NO              | WB        | 0.00 | Horz(CT) | 0.00  | 1     | n/a    | n/a |               |          |
| BCLL         | 0.0*      | Code            | IRC2021/TPI2014 | Matrix-MP |      |          |       |       |        |     |               |          |
| BCDL         | 10.0      |                 |                 |           |      |          |       |       |        |     | Weight: 53 lb | FT = 20% |

#### LUMBER

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

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 6'-0" oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.

#### REACTIONS

(size) 1=0-3-0, 3=0-3-8  
Max Horiz 1=46 (LC 10)  
Max Grav 1=714 (LC 2), 3=635 (LC 2)

#### FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-197/31, 2-3=-162/21  
BOT CHORD 1-3=-17/221

#### NOTES

- 2-ply truss to be connected together as follows:  
Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.  
Bottom chords connected with 10d (0.131"x3") nails as follows: 2x6 - 2 rows staggered 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 7-16; Vult=130mph (3-second gust)  
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.

- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06"-00 tall by 2'-00"-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 219 lb down at 0'-0"-0, 206 lb down at 2'-0"-1, and 210 lb down at 4'-0"-1, and 218 lb down at 6'-2"-4 on bottom chord. The design/selection of such connection device (s) is the responsibility of others.

#### LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (lb/ft)  
Vert: 1-2=-48, 3-4=-20  
Concentrated Loads (lb)  
Vert: 3=-183 (F), 4=-184 (F), 9=-171 (F), 10=-175 (F)



April 23, 2025

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|          |       |                         |     |     |                                  |
|----------|-------|-------------------------|-----|-----|----------------------------------|
| Job      | Truss | Truss Type              | Qty | Ply | 10 Eagle Creek - Edisto B - Roof |
| 25040104 | D1    | Common Structural Gable | 1   | 1   | Job Reference (optional)         |

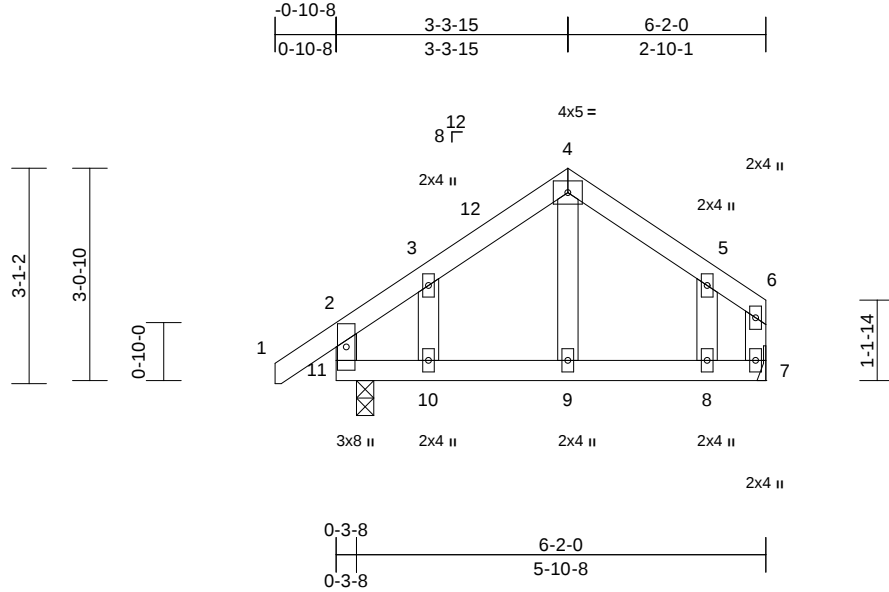
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Scale = 1:33.1

| Loading      | (psf)     | Spacing         | 2-0-0           | CSI       |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES        | GRIP     |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof)  | 20.0      | Plate Grip DOL  | 1.15            | TC        | 0.22 | Vert(LL) | 0.01  | 9-10  | >999   | 240 | MT20          | 244/190  |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL      | 1.15            | BC        | 0.16 | Vert(CT) | -0.01 | 9-10  | >999   | 180 |               |          |
| TCDL         | 10.0      | Rep Stress Incr | YES             | WB        | 0.03 | Horz(CT) | 0.00  | 7     | n/a    | n/a |               |          |
| BCLL         | 0.0*      | Code            | IRC2021/TPI2014 | Matrix-MR |      |          |       |       |        |     |               |          |
| BCDL         | 10.0      |                 |                 |           |      |          |       |       |        |     |               |          |
|              |           |                 |                 |           |      |          |       |       |        |     | Weight: 31 lb | FT = 20% |

#### LUMBER

|           |             |
|-----------|-------------|
| TOP CHORD | 2x4 SP No.2 |
| BOT CHORD | 2x4 SP No.2 |
| WEBS      | 2x4 SP No.3 |
| OTHERS    | 2x4 SP No.3 |

#### BRACING

|           |                                                                                       |
|-----------|---------------------------------------------------------------------------------------|
| TOP CHORD | Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing.                                  |

#### REACTIONS

|            |                             |
|------------|-----------------------------|
| (size)     | 7= Mechanical, 11=0-3-0     |
| Max Horiz  | 11=68 (LC 10)               |
| Max Uplift | 11=-2 (LC 13)               |
| Max Grav   | 7=230 (LC 2), 11=298 (LC 2) |

#### FORCES

|           |                                                                                             |
|-----------|---------------------------------------------------------------------------------------------|
| TOP CHORD | 1-2=0/41, 2-3=-222/102, 3-4=-211/165, 4-5=-225/160, 5-6=-210/86, 2-11=-273/199, 6-7=-173/74 |
| BOT CHORD | 10-11=-57/161, 9-10=-57/161, 8-9=-57/161, 7-8=-57/161                                       |
| WEBS      | 4-9=-35/66, 3-10=-56/89, 5-8=-64/112                                                        |

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) -0-10-0 to 2-2-0, Exterior(2N) 2-2-0 to 3-3-15, Corner(3E) 3-3-15 to 6-0-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- 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 live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 11 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 11.

LOAD CASE(S) Standard



April 23, 2025

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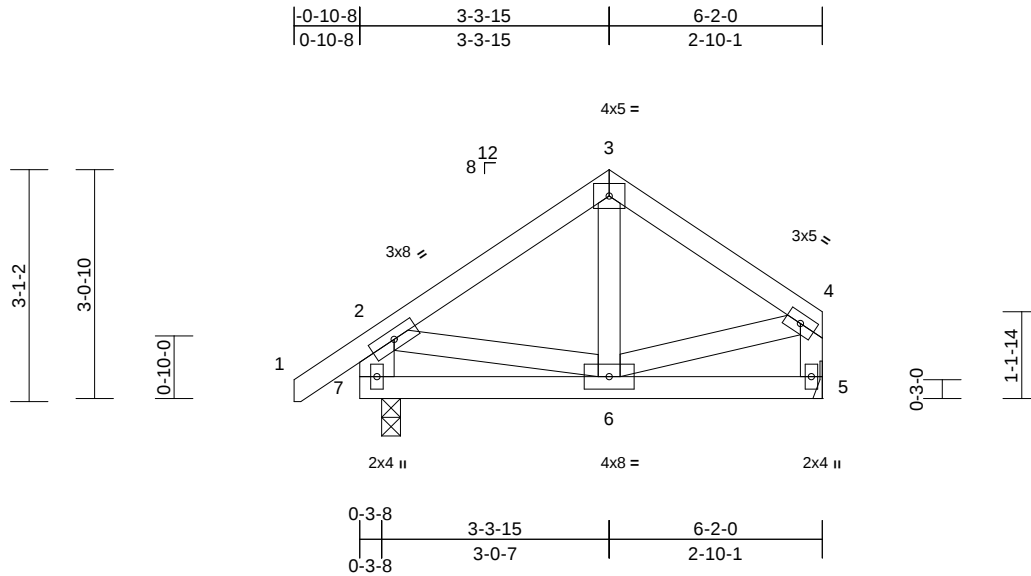
818 Soundside Road  
Edenton, NC 27932

|          |       |            |     |     |                                  |           |
|----------|-------|------------|-----|-----|----------------------------------|-----------|
| Job      | Truss | Truss Type | Qty | Ply | 10 Eagle Creek - Edisto B - Roof | 172941926 |
| 25040104 | D2    | Common     | 2   | 1   | Job Reference (optional)         |           |

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|                |           |                 |                 |            |      |             |      |       |        |     |               |             |
|----------------|-----------|-----------------|-----------------|------------|------|-------------|------|-------|--------|-----|---------------|-------------|
| <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 (roof)    | 20.0      | Plate Grip DOL  | 1.15            | TC         | 0.17 | Vert(LL)    | 0.00 | 6     | >999   | 240 | MT20          | 244/190     |
| Snow (Pf/Pg)   | 13.9/20.0 | Lumber DOL      | 1.15            | BC         | 0.05 | Vert(CT)    | 0.00 | 6-7   | >999   | 180 |               |             |
| TCDL           | 10.0      | Rep Stress Incr | YES             | WB         | 0.05 | Horz(CT)    | 0.00 | 5     | n/a    | n/a |               |             |
| BCLL           | 0.0*      | Code            | IRC2021/TPI2014 | Matrix-MP  |      |             |      |       |        |     |               |             |
| BCDL           | 10.0      |                 |                 |            |      |             |      |       |        |     | Weight: 36 lb | FT = 20%    |

|                  |                                                                                       |
|------------------|---------------------------------------------------------------------------------------|
| <b>LUMBER</b>    |                                                                                       |
| TOP CHORD        | 2x4 SP No.2                                                                           |
| BOT CHORD        | 2x4 SP No.2                                                                           |
| WEBS             | 2x4 SP No.3 *Except* 7-2:2x6 SP No.2                                                  |
| <b>BRACING</b>   |                                                                                       |
| TOP CHORD        | Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD        | Rigid ceiling directly applied or 10-0-0 oc bracing.                                  |
| <b>REACTIONS</b> | (size) 5= Mechanical, 7=0-3-0                                                         |
|                  | Max Horiz 7=69 (LC 10)                                                                |
|                  | Max Uplift 7=-2 (LC 13)                                                               |
|                  | Max Grav 5=226 (LC 2), 7=301 (LC 2)                                                   |
| <b>FORCES</b>    | (lb) - Maximum Compression/Maximum Tension                                            |
| TOP CHORD        | 1-2=0/44, 2-3=-230/82, 3-4=-212/80, 2-7=-325/174, 4-5=-248/105                        |
| BOT CHORD        | 6-7=-85/54, 5-6=-16/18                                                                |
| WEBS             | 3-6=-7/40, 4-6=-22/149, 2-6=0/137                                                     |

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-0 to 2-2-0, Interior (1) 2-2-0 to 3-3-15, Exterior(2E) 3-3-15 to 6-0-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
  - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
  - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.

- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 7 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 7.

**LOAD CASE(S)** Standard



April 23,2025

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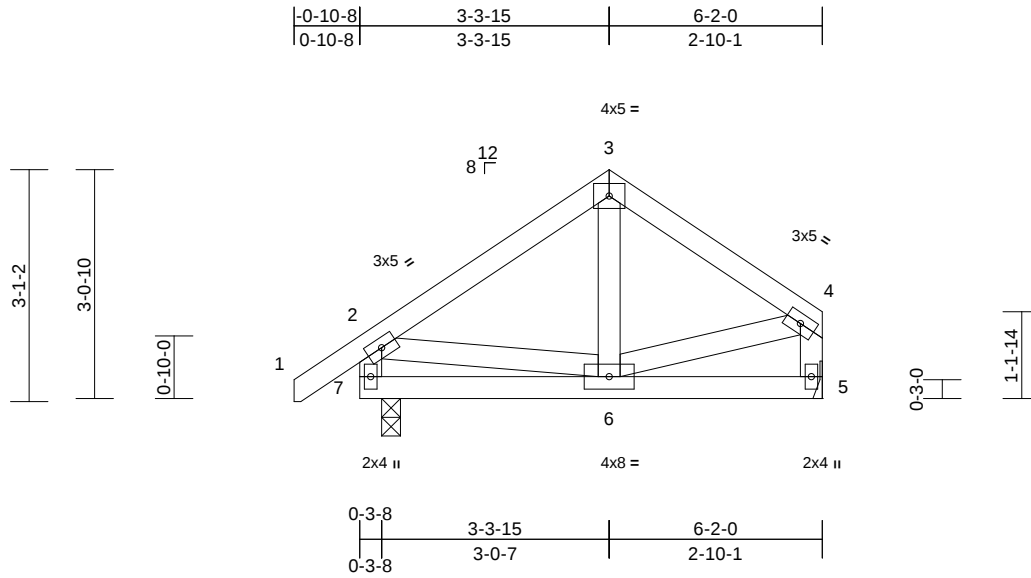
|          |       |            |     |     |                                  |           |
|----------|-------|------------|-----|-----|----------------------------------|-----------|
| Job      | Truss | Truss Type | Qty | Ply | 10 Eagle Creek - Edisto B - Roof | 172941927 |
| 25040104 | D3    | Common     | 7   | 1   | Job Reference (optional)         |           |

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Scale = 1:30.7

| Loading      | (psf)     | Spacing         | 2-0-0           | CSI       | DEFL | in   | (loc) | l/defl | L/d | PLATES        | GRIP     |
|--------------|-----------|-----------------|-----------------|-----------|------|------|-------|--------|-----|---------------|----------|
| TCLL (roof)  | 20.0      | Plate Grip DOL  | 1.15            | TC        | 0.18 | 0.00 | 6     | >999   | 240 | MT20          | 244/190  |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL      | 1.15            | BC        | 0.06 | 0.00 | 6-7   | >999   | 180 |               |          |
| TCDL         | 10.0      | Rep Stress Incr | YES             | WB        | 0.06 | 0.00 | 5     | n/a    | n/a |               |          |
| BCLL         | 0.0*      | Code            | IRC2021/TPI2014 | Matrix-MP |      |      |       |        |     |               |          |
| BCDL         | 10.0      |                 |                 |           |      |      |       |        |     | Weight: 36 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 or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing.                                  |

#### REACTIONS (size)

|                                     |
|-------------------------------------|
| 5= Mechanical, 7=0-3-0              |
| Max Horiz 7=68 (LC 12)              |
| Max Uplift 7=-2 (LC 13)             |
| Max Grav 5=230 (LC 2), 7=298 (LC 2) |

#### FORCES

|           |                                                                |
|-----------|----------------------------------------------------------------|
|           | (lb) - Maximum Compression/Maximum Tension                     |
| TOP CHORD | 1-2=0/41, 2-3=-235/81, 3-4=-219/83, 2-7=-321/170, 4-5=-253/106 |
| BOT CHORD | 6-7=-84/53, 5-6=-16/18                                         |
| WEBS      | 3-6=-5/43, 4-6=-24/154, 2-6=0/140                              |

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-0 to 2-2-0, Interior (1) 2-2-0 to 3-3-15, Exterior(2E) 3-3-15 to 6-0-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.

- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 7 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 7.

LOAD CASE(S) Standard



April 23,2025

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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818 Soundside Road  
Edenton, NC 27932

|          |       |                     |     |     |                                  |
|----------|-------|---------------------|-----|-----|----------------------------------|
| Job      | Truss | Truss Type          | Qty | Ply | 10 Eagle Creek - Edisto B - Roof |
| 25040104 | E1    | Diagonal Hip Girder | 1   | 1   | Job Reference (optional)         |

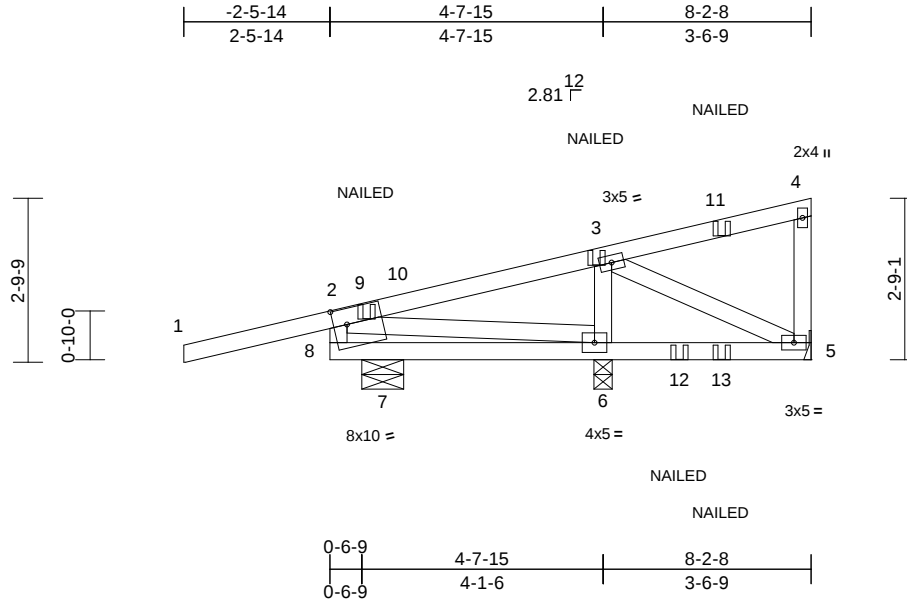
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Apr 22 13:52:32

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Scale = 1:39.3

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

| Loading      | (psf)     | Spacing         | 1-11-4          | CSI       | DEFL | in       | (loc) | l/defl | L/d  | PLATES        | GRIP     |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|--------|------|---------------|----------|
| TCLL (roof)  | 20.0      | Plate Grip DOL  | 1.15            | TC        | 0.69 | Vert(LL) | 0.01  | 6-7    | >999 | 240           | 244/190  |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL      | 1.15            | BC        | 0.44 | Vert(CT) | 0.02  | 6-7    | >999 | 180           |          |
| TCDL         | 10.0      | Rep Stress Incr | NO              | WB        | 0.15 | Horz(CT) | 0.00  | 5      | n/a  | n/a           |          |
| BCLL         | 0.0*      | Code            | IRC2021/TPI2014 | Matrix-MP |      |          |       |        |      |               |          |
| BCDL         | 10.0      |                 |                 |           |      |          |       |        |      |               |          |
|              |           |                 |                 |           |      |          |       |        |      | Weight: 46 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 or 6-0-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS**

(size) 5= Mechanical, 6=0-3-12, 7=0-8-9  
 Max Horiz 7=75 (LC 8)  
 Max Uplift 5=-71 (LC 41), 6=-148 (LC 7), 7=-49 (LC 7)  
 Max Grav 5=78 (LC 42), 6=481 (LC 18), 7=302 (LC 41)

**FORCES**

(lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 2-8=-198/53, 1-2=0/44, 2-3=-161/359, 3-4=-47/20, 4-5=-84/24  
 BOT CHORD 7-8=-6/4, 6-7=-73/8, 5-6=-327/160  
 WEBS 3-6=-462/149, 3-5=-157/363, 2-6=-330/189

**NOTES**

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.

- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Bearings are assumed to be: Joint 7 SP No.2, Joint 6 SP No.2.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint 5, 148 lb uplift at joint 6 and 49 lb uplift at joint 7.
- 9) "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 10) 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 + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (lb/ft)  
 Vert: 1-2=-46, 2-4=-46, 5-8=-19  
 Concentrated Loads (lb)  
 Vert: 12=60 (F), 13=-1 (B)



April 23, 2025

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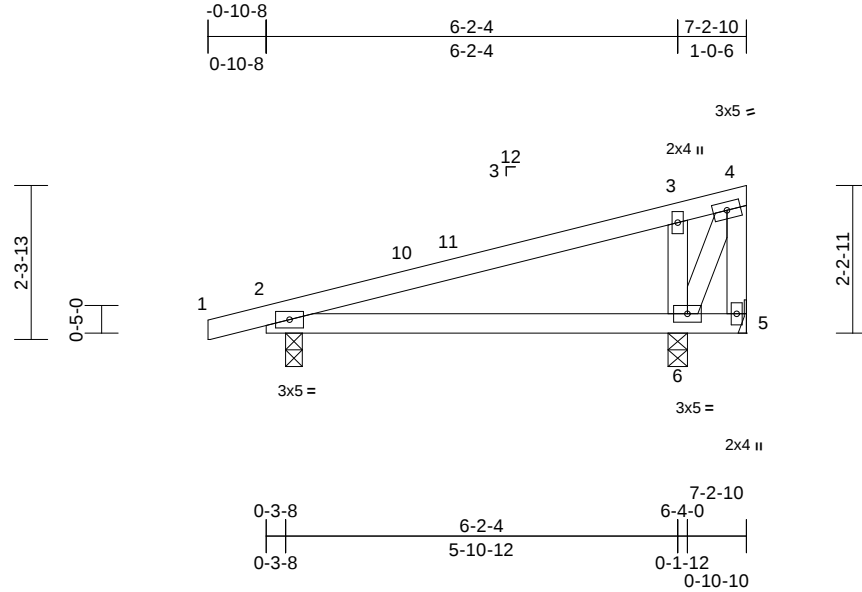
818 Soundside Road  
 Edenton, NC 27932

|          |       |             |     |     |                                  |           |
|----------|-------|-------------|-----|-----|----------------------------------|-----------|
| Job      | Truss | Truss Type  | Qty | Ply | 10 Eagle Creek - Edisto B - Roof |           |
| 25040104 | E2    | Jack-Closed | 1   | 1   | Job Reference (optional)         | I72941929 |

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

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Page: 1



Scale = 1:34.6

| Loading      | (psf)     | Spacing         | 2-0-0           | CSI       |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES        | GRIP     |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof)  | 20.0      | Plate Grip DOL  | 1.15            | TC        | 0.46 | Vert(LL) | -0.04 | 6-9   | >999   | 240 | MT20          | 244/190  |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL      | 1.15            | BC        | 0.35 | Vert(CT) | -0.08 | 6-9   | >982   | 180 |               |          |
| TCDL         | 10.0      | Rep Stress Incr | YES             | WB        | 0.13 | Horz(CT) | 0.01  | 2     | n/a    | n/a |               |          |
| BCLL         | 0.0*      | Code            | IRC2021/TPI2014 | Matrix-MP |      |          |       |       |        |     |               |          |
| BCDL         | 10.0      |                 |                 |           |      |          |       |       |        |     | Weight: 30 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 or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS

(size) 2=0-3-0, 5= Mechanical, 6=0-3-8  
Max Horiz 2=57 (LC 14)  
Max Uplift 2=-26 (LC 11), 5=-104 (LC 22), 6=-1 (LC 15)  
Max Grav 2=284 (LC 2), 5=-6 (LC 11), 6=472 (LC 22)

#### FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/16, 2-3=-167/54, 3-4=-230/116, 4-5=-52/2

BOT CHORD 2-6=-99/160, 5-6=-33/35

WEBS 3-6=-511/379, 4-6=-180/332

#### NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust)  
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-5 to 2-1-11, Interior (1) 2-1-11 to 7-0-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.

- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Bearings are assumed to be: Joint 2 SP No.2, Joint 6 SP No.2.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 104 lb uplift at joint 5, 1 lb uplift at joint 6 and 26 lb uplift at joint 2.

LOAD CASE(S) Standard



April 23, 2025

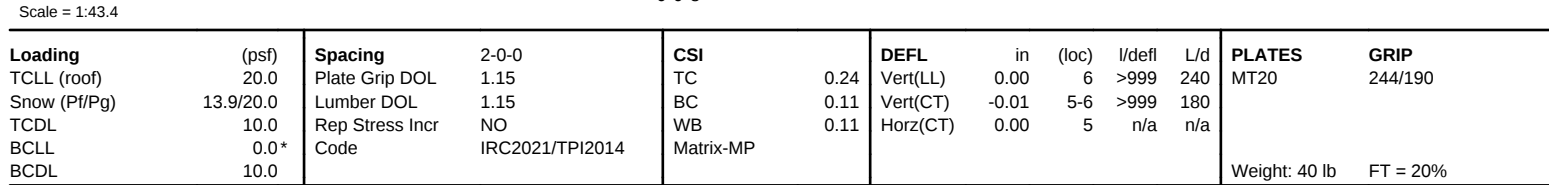
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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- 6) Bearings are assumed to be: Joint 7 SP No.2 .
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 7 and 33 lb uplift at joint 5.
- 9) "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 10) 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 + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (lb/ft)  
Vert: 1-2=-48, 2-4=-48, 5-7=-20  
Concentrated Loads (lb)  
Vert: 6=-3 (F), 3=-12 (F), 11=3 (B), 12=-1 (B)

## NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust)  
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.



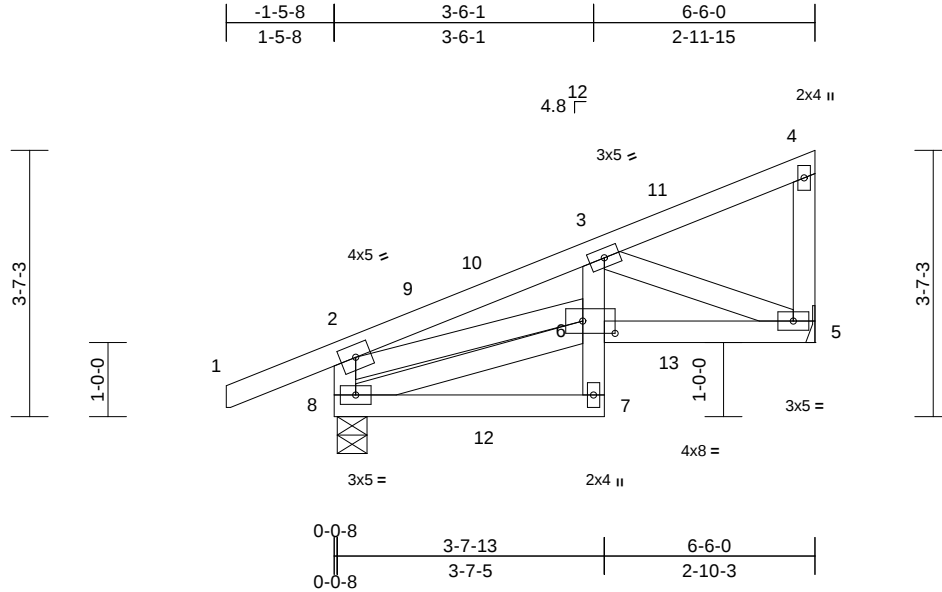
April 23, 2025

|          |       |                     |     |     |                                  |           |
|----------|-------|---------------------|-----|-----|----------------------------------|-----------|
| Job      | Truss | Truss Type          | Qty | Ply | 10 Eagle Creek - Edisto B - Roof | I72941931 |
| 25040104 | E4    | Diagonal Hip Girder | 1   | 1   | Job Reference (optional)         |           |

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

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Scale = 1:31.2

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

| Loading      | (psf)     | Spacing         | 2-0-0           | CSI       | DEFL | in       | (loc) | l/defl | L/d  | PLATES        | GRIP     |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|--------|------|---------------|----------|
| TCLL (roof)  | 20.0      | Plate Grip DOL  | 1.15            | TC        | 0.24 | Vert(LL) | -0.01 | 7      | >999 | 240           | 244/190  |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL      | 1.15            | BC        | 0.20 | Vert(CT) | -0.02 | 7-8    | >999 | 180           |          |
| TCDL         | 10.0      | Rep Stress Incr | NO              | WB        | 0.18 | Horz(CT) | 0.01  | 5      | n/a  | n/a           |          |
| BCLL         | 0.0*      | Code            | IRC2021/TPI2014 | Matrix-MP |      |          |       |        |      |               |          |
| BCDL         | 10.0      |                 |                 |           |      |          |       |        |      |               |          |
|              |           |                 |                 |           |      |          |       |        |      | Weight: 43 lb | FT = 20% |

#### LUMBER

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2 \*Except\* 7-3:2x4 SP No.3  
WEBS 2x4 SP No.3

#### BRACING

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

**REACTIONS** (lb/size) 5=223/ Mechanical, 8=306/0-4-13  
Max Horiz 8=93 (LC 8)  
Max Uplift 5=-50 (LC 8), 8=-45 (LC 7)  
Max Grav 5=294 (LC 18), 8=362 (LC 2)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-8=-323/69, 1-2=0/44, 2-3=-492/70,  
3-4=-58/24, 4-5=-86/16

BOT CHORD 7-8=-5/28, 6-7=0/40, 3-6=-23/111,  
5-6=-100/447

WEBS 6-8=-97/13, 2-6=-31/423, 3-5=-479/100

#### NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust)  
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.

- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 8 and 50 lb uplift at joint 5.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 36 lb down and 16 lb up at 2-0-6, and 44 lb down and 37 lb up at 3-3-4, and 26 lb down at 4-6-6 on top chord, and 8 lb down and 10 lb up at 2-0-6, and 4 lb down and 4 lb up at 3-6-1, and 43 lb down and 46 lb up at 4-6-6 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) 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 + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (lb/ft)  
Vert: 1-2=-48, 2-4=-48, 7-8=-20, 5-6=-20  
Concentrated Loads (lb)  
Vert: 7=-3 (B), 3=-12 (B), 12=3 (F), 13=-21 (F)



April 23,2025

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818 Soundside Road  
Edenton, NC 27932

|          |       |                     |     |     |                                  |
|----------|-------|---------------------|-----|-----|----------------------------------|
| Job      | Truss | Truss Type          | Qty | Ply | 10 Eagle Creek - Edisto B - Roof |
| 25040104 | E5    | Diagonal Hip Girder | 2   | 1   | Job Reference (optional)         |

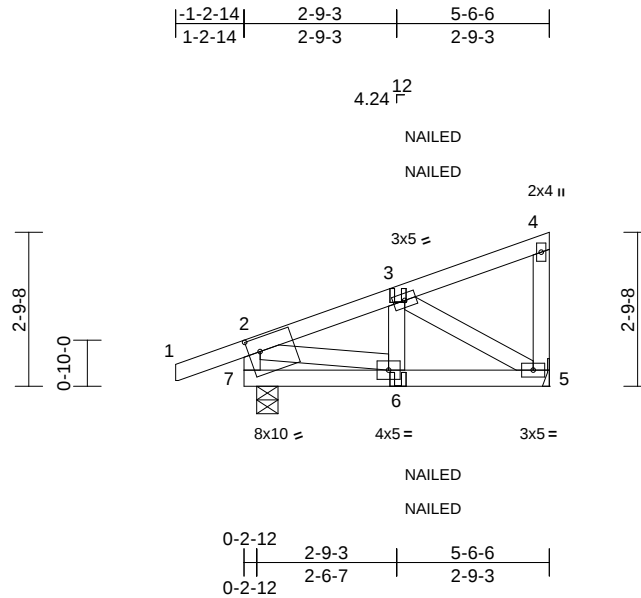
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Carter Components (Sanford, NC), Sanford, NC - 27332,

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Scale = 1:41.7

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

| Loading      | (psf)     | Spacing         | 2-0-0           | CSI       |      | DEFL     | in   | (loc) | l/defl | L/d | PLATES        | GRIP     |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof)  | 20.0      | Plate Grip DOL  | 1.15            | TC        | 0.19 | Vert(LL) | 0.00 | 6     | >999   | 240 | MT20          | 244/190  |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL      | 1.15            | BC        | 0.09 | Vert(CT) | 0.00 | 6-7   | >999   | 180 |               |          |
| TCDL         | 10.0      | Rep Stress Incr | NO              | WB        | 0.10 | Horz(CT) | 0.00 | 5     | n/a    | n/a |               |          |
| BCLL         | 0.0*      | Code            | IRC2021/TPI2014 | Matrix-MP |      |          |      |       |        |     |               |          |
| BCDL         | 10.0      |                 |                 |           |      |          |      |       |        |     |               |          |
|              |           |                 |                 |           |      |          |      |       |        |     | Weight: 32 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 or 5-6-6 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 5= Mechanical, 7=0-4-10  
Max Horiz 7=79 (LC 8)  
Max Uplift 5=-8 (LC 11), 7=-38 (LC 7)  
Max Grav 5=233 (LC 18), 7=315 (LC 18)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-7=-292/50, 1-2=0/34, 2-3=-275/2,  
3-4=-49/20, 4-5=-78/14  
BOT CHORD 6-7=-77/10, 5-6=-17/230  
WEBS 2-6=0/236, 3-6=0/43, 3-5=-265/18

**NOTES**

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust)  
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.

- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Bearings are assumed to be: Joint 7 SP No.2 .
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 7 and 8 lb uplift at joint 5.
- 9) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 10) 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 + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (lb/ft)  
Vert: 1-2=-48, 2-4=-48, 5-7=-20  
Concentrated Loads (lb)  
Vert: 6=-1 (F=0, B=0)



April 23, 2025

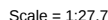
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute ([www.tpinst.org](http://www.tpinst.org)) and **BCSI Building Component Safety Information** available from the Structural Building Component Association ([www.sbcacompnents.com](http://www.sbcacompnents.com))

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Carter Components (Sanford, NC), Sanford, NC - 27332, Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Apr 22 13:52:33 Page: 1  
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April 23, 2025

**WARNING – Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-17-15169: 1/2/2023 BEFORE USE.**

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|          |       |            |     |     |                                  |
|----------|-------|------------|-----|-----|----------------------------------|
| Job      | Truss | Truss Type | Qty | Ply | 10 Eagle Creek - Edisto B - Roof |
| 25040104 | E7    | Jack-Open  | 3   | 1   | Job Reference (optional)         |

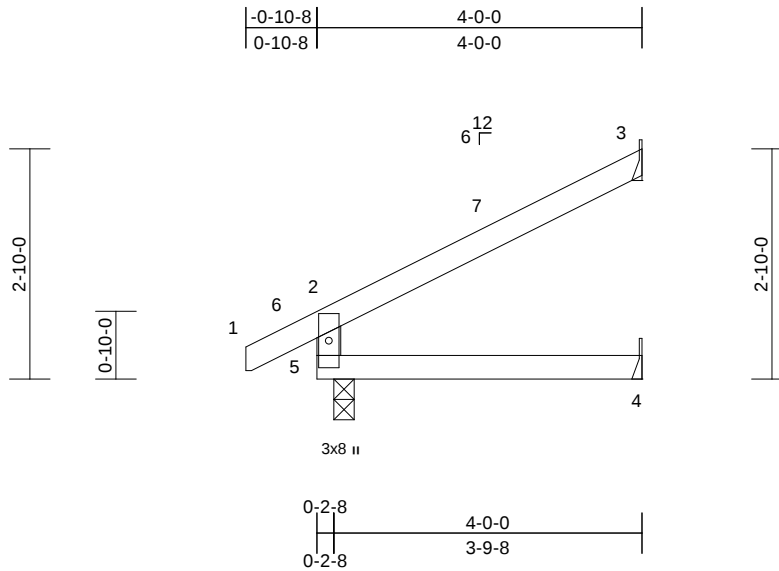
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Scale = 1:28.4

| Loading      | (psf)     | Spacing         | 2-0-0           | CSI       |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES        | GRIP     |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof)  | 20.0      | Plate Grip DOL  | 1.15            | TC        | 0.29 | Vert(LL) | 0.01  | 4-5   | >999   | 240 | MT20          | 244/190  |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL      | 1.15            | BC        | 0.19 | Vert(CT) | -0.02 | 4-5   | >999   | 180 |               |          |
| TCDL         | 10.0      | Rep Stress Incr | YES             | WB        | 0.00 | Horz(CT) | -0.01 | 3     | n/a    | n/a |               |          |
| BCLL         | 0.0*      | Code            | IRC2021/TPI2014 | Matrix-MR |      |          |       |       |        |     |               |          |
| BCDL         | 10.0      |                 |                 |           |      |          |       |       |        |     |               |          |
|              |           |                 |                 |           |      |          |       |       |        |     | Weight: 15 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 or 4-0-0 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing.                                  |

|                  |            |                                            |
|------------------|------------|--------------------------------------------|
| <b>REACTIONS</b> | (size)     | 3= Mechanical, 4= Mechanical,              |
|                  |            | 5=0-3-0                                    |
|                  | Max Horiz  | 5=55 (LC 15)                               |
|                  | Max Uplift | 3=-35 (LC 15)                              |
|                  | Max Grav   | 3=127 (LC 22), 4=45 (LC 22), 5=266 (LC 22) |

|               |                                            |
|---------------|--------------------------------------------|
| <b>FORCES</b> | (lb) - Maximum Compression/Maximum Tension |
|---------------|--------------------------------------------|

|           |                                    |
|-----------|------------------------------------|
| TOP CHORD | 2-5=-236/137, 1-2=0/33, 2-3=-75/50 |
| BOT CHORD | 4-5=0/0                            |

**NOTES**

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-1 to 2-1-15, Interior (1) 2-1-15 to 3-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.

- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 5 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 3.

**LOAD CASE(S)** Standard

April 23,2025

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|          |       |            |     |     |                                  |
|----------|-------|------------|-----|-----|----------------------------------|
| Job      | Truss | Truss Type | Qty | Ply | 10 Eagle Creek - Edisto B - Roof |
| 25040104 | E8    | Jack-Open  | 4   | 1   | Job Reference (optional)         |

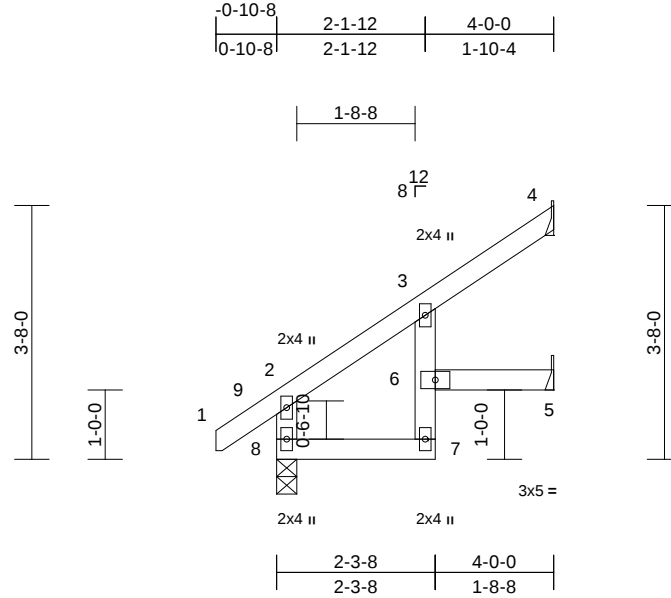
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Scale = 1:33.3

| Loading      | (psf)     | Spacing         | 2-0-0           | CSI       | DEFL | in       | (loc) | l/defl | L/d  | PLATES        | GRIP     |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|--------|------|---------------|----------|
| TCLL (roof)  | 20.0      | Plate Grip DOL  | 1.15            | TC        | 0.15 | 0.02     | 7     | >999   | 240  | MT20          | 244/190  |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL      | 1.15            | BC        | 0.19 | Vert(CT) | -0.02 | 7      | >999 | 180           |          |
| TCDL         | 10.0      | Rep Stress Incr | YES             | WB        | 0.00 | Horz(CT) | -0.01 | 5      | n/a  | n/a           |          |
| BCLL         | 0.0*      | Code            | IRC2021/TPI2014 | Matrix-MR |      |          |       |        |      |               |          |
| BCDL         | 10.0      |                 |                 |           |      |          |       |        |      |               |          |
|              |           |                 |                 |           |      |          |       |        |      | Weight: 19 lb | FT = 20% |

#### LUMBER

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2 \*Except\* 7-3:2x4 SP No.3  
WEBS 2x4 SP No.3

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 4= Mechanical, 5= Mechanical,  
8=0-3-8  
Max Horiz 8=73 (LC 13)  
Max Uplift 4=-30 (LC 13), 5=-7 (LC 13)  
Max Grav 4=93 (LC 29), 5=62 (LC 29), 8=218 (LC 2)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-8=-198/85, 1-2=0/41, 2-3=-115/0, 3-4=-61/59

BOT CHORD 7-8=-88/83, 6-7=-18/31, 3-6=-21/52, 5-6=0/0

#### NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-0 to 2-0-12, Interior (1) 2-0-12 to 3-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.

- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: , Joint 8 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 4 and 7 lb uplift at joint 5.

**LOAD CASE(S)** Standard



April 23,2025

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|          |       |            |     |     |                                  |
|----------|-------|------------|-----|-----|----------------------------------|
| Job      | Truss | Truss Type | Qty | Ply | 10 Eagle Creek - Edisto B - Roof |
| 25040104 | E9    | Jack-Open  | 5   | 1   | Job Reference (optional)         |

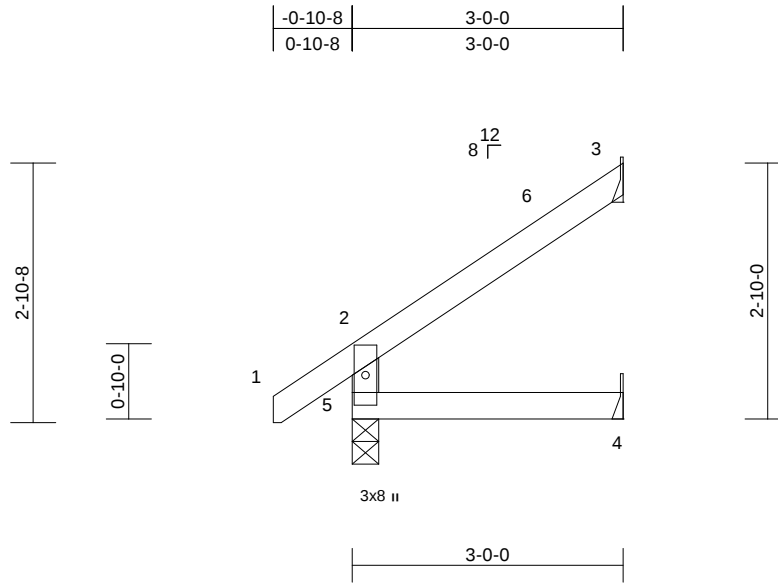
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Scale = 1:25.5

| Loading      | (psf)     | Spacing         | 2-0-0           | CSI       |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES        | GRIP     |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof)  | 20.0      | Plate Grip DOL  | 1.15            | TC        | 0.20 | Vert(LL) | 0.01  | 4-5   | >999   | 240 | MT20          | 244/190  |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL      | 1.15            | BC        | 0.12 | Vert(CT) | -0.01 | 4-5   | >999   | 180 |               |          |
| TCDL         | 10.0      | Rep Stress Incr | YES             | WB        | 0.00 | Horz(CT) | -0.01 | 3     | n/a    | n/a |               |          |
| BCLL         | 0.0*      | Code            | IRC2021/TPI2014 | Matrix-MR |      |          |       |       |        |     |               |          |
| BCDL         | 10.0      |                 |                 |           |      |          |       |       |        |     |               |          |
|              |           |                 |                 |           |      |          |       |       |        |     | Weight: 12 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 or 3-0-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 3= Mechanical, 4= Mechanical,  
 5=0-3-8  
 Max Horiz 5=57 (LC 13)  
 Max Uplift 3=34 (LC 13)  
 Max Grav 3=77 (LC 29), 4=33 (LC 29), 5=181 (LC 2)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-162/95, 1-2=0/41, 2-3=-68/49  
 BOT CHORD 4-5=0/0

**NOTES**

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-0 to 2-2-0, Interior (1) 2-2-0 to 2-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.

- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 5 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 3.

LOAD CASE(S) Standard



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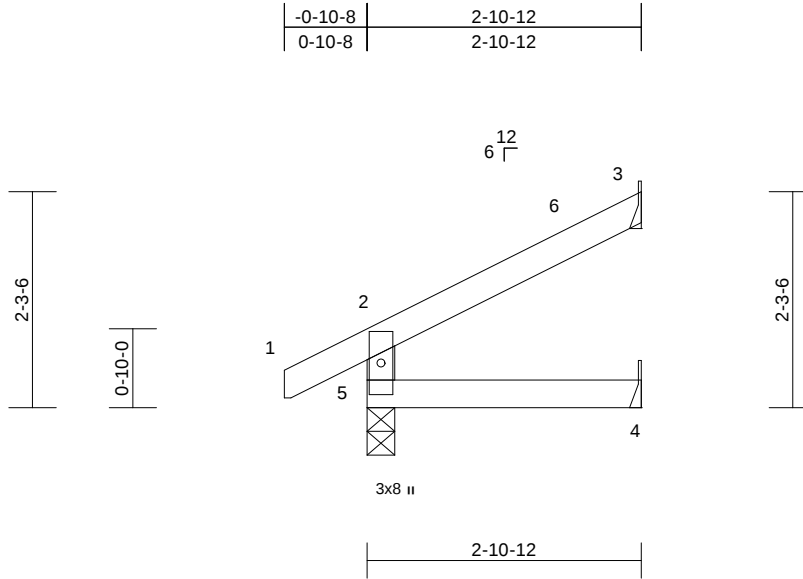
818 Soundside Road  
 Edenton, NC 27932

|          |       |            |     |     |                                  |
|----------|-------|------------|-----|-----|----------------------------------|
| Job      | Truss | Truss Type | Qty | Ply | 10 Eagle Creek - Edisto B - Roof |
| 25040104 | E10   | Jack-Open  | 3   | 1   | Job Reference (optional)         |
|          |       |            |     |     | I72941937                        |

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Scale = 1:24.3

| Loading      | (psf)     | Spacing         | 2-0-0           | CSI       |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES        | GRIP     |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof)  | 20.0      | Plate Grip DOL  | 1.15            | TC        | 0.17 | Vert(LL) | 0.00  | 4-5   | >999   | 240 | MT20          | 244/190  |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL      | 1.15            | BC        | 0.10 | Vert(CT) | 0.00  | 4-5   | >999   | 180 |               |          |
| TCDL         | 10.0      | Rep Stress Incr | YES             | WB        | 0.00 | Horz(CT) | -0.01 | 3     | n/a    | n/a |               |          |
| BCLL         | 0.0*      | Code            | IRC2021/TPI2014 | Matrix-MR |      |          |       |       |        |     |               |          |
| BCDL         | 10.0      |                 |                 |           |      |          |       |       |        |     |               |          |
|              |           |                 |                 |           |      |          |       |       |        |     | Weight: 11 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 or 2-10-12 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing.                                    |

|                  |            |                                           |
|------------------|------------|-------------------------------------------|
| <b>REACTIONS</b> | (size)     | 3= Mechanical, 4= Mechanical, 5=0-3-8     |
|                  | Max Horiz  | 5=41 (LC 12)                              |
|                  | Max Uplift | 3=-26 (LC 15)                             |
|                  | Max Grav   | 3=82 (LC 22), 4=29 (LC 22), 5=209 (LC 22) |

|               |                                            |
|---------------|--------------------------------------------|
| <b>FORCES</b> | (lb) - Maximum Compression/Maximum Tension |
|---------------|--------------------------------------------|

|           |                                    |
|-----------|------------------------------------|
| TOP CHORD | 2-5=-184/117, 1-2=0/33, 2-3=-52/35 |
| BOT CHORD | 4-5=0/0                            |

#### NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-1 to 2-1-15, Interior (1) 2-1-15 to 2-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.

- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 5 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 3.

**LOAD CASE(S)** Standard



April 23,2025

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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Edenton, NC 27932

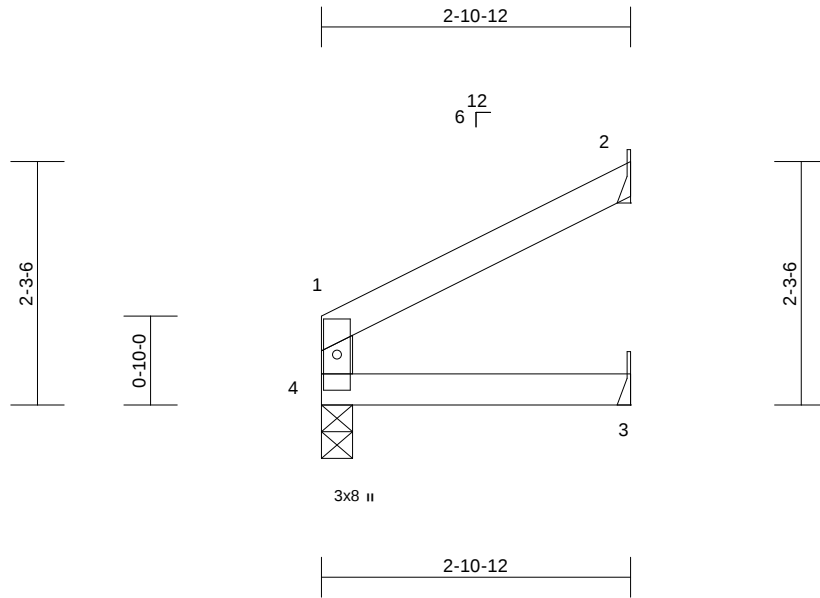
|          |       |            |     |     |                                  |
|----------|-------|------------|-----|-----|----------------------------------|
| Job      | Truss | Truss Type | Qty | Ply | 10 Eagle Creek - Edisto B - Roof |
| 25040104 | E11   | Jack-Open  | 1   | 1   | Job Reference (optional)         |

I72941938

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

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Scale = 1:21.6

| Loading      | (psf)     | Spacing         | 2-0-0           | CSI       | DEFL | in       | (loc) | l/defl | L/d  | PLATES | GRIP          |          |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|---------------|----------|
| TCLL (roof)  | 20.0      | Plate Grip DOL  | 1.15            | TC        | 0.17 | Vert(LL) | 0.00  | 3-4    | >999 | 240    | MT20          | 244/190  |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL      | 1.15            | BC        | 0.10 | Vert(CT) | -0.01 | 3-4    | >999 | 180    |               |          |
| TCDL         | 10.0      | Rep Stress Incr | YES             | WB        | 0.00 | Horz(CT) | -0.01 | 2      | n/a  | n/a    |               |          |
| BCLL         | 0.0*      | Code            | IRC2021/TPI2014 | Matrix-MR |      |          |       |        |      |        |               |          |
| BCDL         | 10.0      |                 |                 |           |      |          |       |        |      |        |               |          |
|              |           |                 |                 |           |      |          |       |        |      |        | Weight: 10 lb | FT = 20% |

**LUMBER**

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

- 6) Refer to girder(s) for truss to truss connections.  
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 2.

LOAD CASE(S) Standard

**BRACING**

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

**REACTIONS**

(size) 2= Mechanical, 3= Mechanical,  
4=0-3-8  
Max Horiz 4=34 (LC 12)  
Max Uplift 2=-26 (LC 15)  
Max Grav 2=86 (LC 21), 3=34 (LC 21), 4=119 (LC 21)

**FORCES**

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-4=-99/50, 1-2=-54/37  
BOT CHORD 3-4=0/0

**NOTES**

- Wind: ASCE 7-16; Vult=130mph (3-second gust)  
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 4 SP No.2 .



April 23, 2025

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|          |       |            |     |     |                                  |
|----------|-------|------------|-----|-----|----------------------------------|
| Job      | Truss | Truss Type | Qty | Ply | 10 Eagle Creek - Edisto B - Roof |
| 25040104 | E12   | Jack-Open  | 3   | 1   | Job Reference (optional)         |

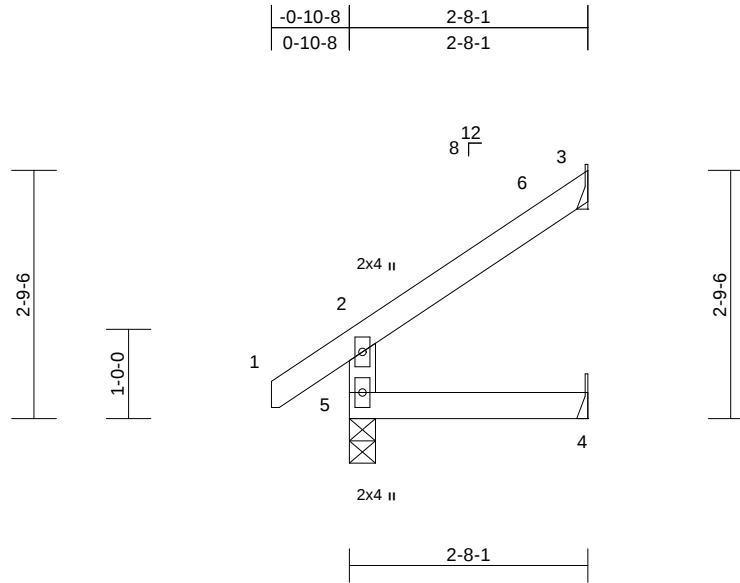
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Carter Components (Sanford, NC), Sanford, NC - 27332,

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Scale = 1:25.8

| Loading      | (psf)     | Spacing         | 2-0-0           | CSI       |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES        | GRIP     |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof)  | 20.0      | Plate Grip DOL  | 1.15            | TC        | 0.20 | Vert(LL) | 0.00  | 4-5   | >999   | 240 | MT20          | 244/190  |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL      | 1.15            | BC        | 0.12 | Vert(CT) | 0.00  | 4-5   | >999   | 180 |               |          |
| TCDL         | 10.0      | Rep Stress Incr | YES             | WB        | 0.00 | Horz(CT) | -0.01 | 3     | n/a    | n/a |               |          |
| BCLL         | 0.0*      | Code            | IRC2021/TPI2014 | Matrix-MR |      |          |       |       |        |     |               |          |
| BCDL         | 10.0      |                 |                 |           |      |          |       |       |        |     |               |          |
|              |           |                 |                 |           |      |          |       |       |        |     | Weight: 11 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 or  
 2-8-1 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc  
 bracing.

**REACTIONS** (size) 3= Mechanical, 4= Mechanical,  
 5=0-3-8  
 Max Horiz 5=50 (LC 10)  
 Max Uplift 3=32 (LC 13)  
 Max Grav 3=68 (LC 29), 4=30 (LC 11), 5=169  
 (LC 2)

**FORCES** (lb) - Maximum Compression/Maximum  
 Tension

TOP CHORD 2-5=-151/89, 1-2=0/41, 2-3=-65/44  
 BOT CHORD 4-5=0/0

**NOTES**

- Wind: ASCE 7-16; Vult=130mph (3-second gust)  
 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.  
 II; Exp B; Enclosed; MWFRS (envelope) and C-C  
 Exterior(2E) -0-10-0 to 2-2-0, Interior (1) 2-2-0 to 2-7-5  
 zone; cantilever left and right exposed; end vertical left  
 and right exposed; C-C for members and forces &  
 MWFRS for reactions shown; Lumber DOL=1.60 plate  
 grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15  
 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum  
 DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully  
 Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- This truss has been designed for greater of min roof live  
 load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on  
 overhangs non-concurrent with other live loads.

- \* This truss has been designed for a live load of 20.0psf  
 on the bottom chord in all areas where a rectangle  
 3-06-00 tall by 2-00-00 wide will fit between the bottom  
 chord and any other members.
- Bearings are assumed to be: , Joint 5 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to  
 bearing plate capable of withstanding 32 lb uplift at joint  
 3.

**LOAD CASE(S)** Standard



April 23, 2025

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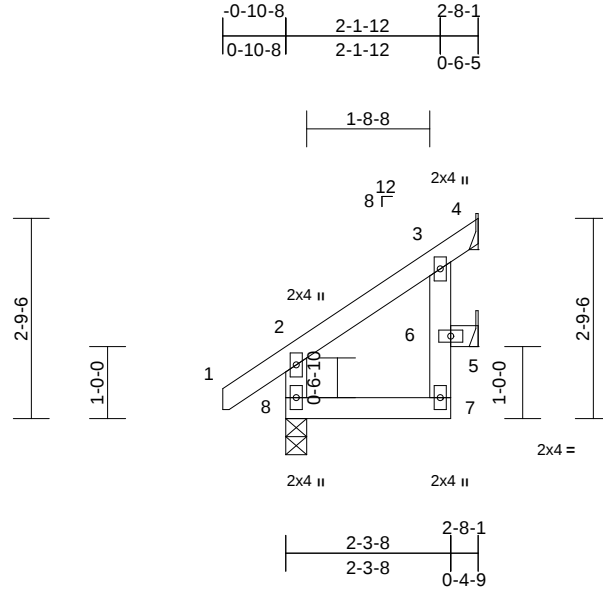
818 Soundside Road  
 Edenton, NC 27932

|          |       |            |     |     |                                  |           |
|----------|-------|------------|-----|-----|----------------------------------|-----------|
| Job      | Truss | Truss Type | Qty | Ply | 10 Eagle Creek - Edisto B - Roof | I72941940 |
| 25040104 | E13   | Jack-Open  | 1   | 1   | Job Reference (optional)         |           |

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

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Scale = 1:32

| Loading      | (psf)     | Spacing         | 2-0-0           | CSI       | DEFL | in   | (loc) | l/defl | L/d | PLATES        | GRIP     |
|--------------|-----------|-----------------|-----------------|-----------|------|------|-------|--------|-----|---------------|----------|
| TCLL (roof)  | 20.0      | Plate Grip DOL  | 1.15            | TC        | 0.14 | 0.00 | 7-8   | >999   | 240 | MT20          | 244/190  |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL      | 1.15            | BC        | 0.09 | 0.00 | 6     | >999   | 180 |               |          |
| TCDL         | 10.0      | Rep Stress Incr | YES             | WB        | 0.00 | 0.00 | 4     | n/a    | n/a |               |          |
| BCLL         | 0.0*      | Code            | IRC2021/TPI2014 | Matrix-MR |      |      |       |        |     |               |          |
| BCDL         | 10.0      |                 |                 |           |      |      |       |        |     | Weight: 14 lb | FT = 20% |

#### LUMBER

|           |                                      |
|-----------|--------------------------------------|
| TOP CHORD | 2x4 SP No.2                          |
| BOT CHORD | 2x4 SP No.2 *Except* 7-3:2x4 SP No.3 |
| WEBS      | 2x4 SP No.3                          |

#### BRACING

|           |                                                                                       |
|-----------|---------------------------------------------------------------------------------------|
| TOP CHORD | Structural wood sheathing directly applied or 2-8-1 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing.                                  |

|                  |            |                                         |
|------------------|------------|-----------------------------------------|
| <b>REACTIONS</b> | (size)     | 4= Mechanical, 5= Mechanical, 8=0-3-8   |
|                  | Max Horiz  | 8=50 (LC 10)                            |
|                  | Max Uplift | 5=-31 (LC 13)                           |
|                  | Max Grav   | 4=34 (LC 2), 5=67 (LC 29), 8=169 (LC 2) |

|               |                                            |
|---------------|--------------------------------------------|
| <b>FORCES</b> | (lb) - Maximum Compression/Maximum Tension |
|---------------|--------------------------------------------|

|           |                                             |
|-----------|---------------------------------------------|
| TOP CHORD | 2-8=-152/83, 1-2=0/41, 2-3=-63/7, 3-4=-7/19 |
| BOT CHORD | 7-8=-47/38, 6-7=-12/30, 3-6=-63/95, 5-6=0/0 |

#### NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-0 to 2-0-12, Interior (1) 2-0-12 to 2-7-5 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.

- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 8 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 5.

**LOAD CASE(S)** Standard



April 23, 2025

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|          |       |            |     |     |                                  |
|----------|-------|------------|-----|-----|----------------------------------|
| Job      | Truss | Truss Type | Qty | Ply | 10 Eagle Creek - Edisto B - Roof |
| 25040104 | E14   | Jack-Open  | 1   | 1   | Job Reference (optional)         |

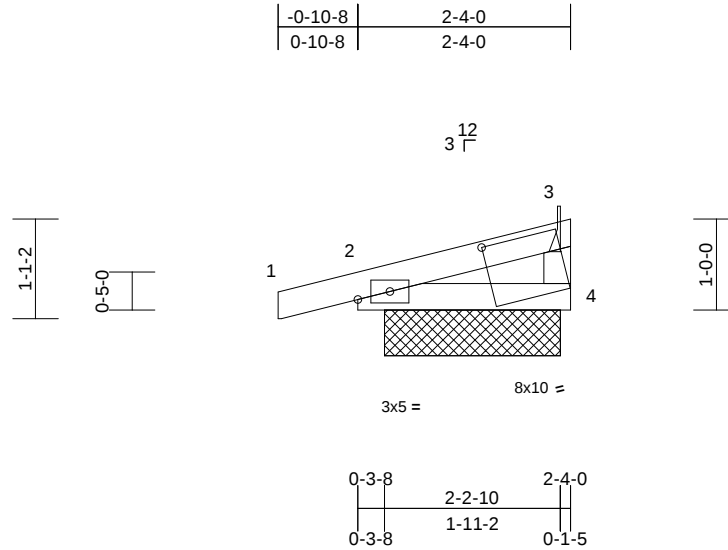
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Carter Components (Sanford, NC), Sanford, NC - 27332,

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Scale = 1:25.3

Plate Offsets (X, Y): [4:1-5-7,0-2-11]

| Loading      | (psf)     | Spacing         | 2-0-0           | CSI       |      | DEFL     | in   | (loc) | l/defl | L/d | PLATES       | GRIP     |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|------|-------|--------|-----|--------------|----------|
| TCLL (roof)  | 20.0      | Plate Grip DOL  | 1.15            | TC        | 0.06 | Vert(LL) | 0.00 | 4-9   | >999   | 240 | MT20         | 244/190  |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL      | 1.15            | BC        | 0.07 | Vert(CT) | 0.00 | 4-9   | >999   | 180 |              |          |
| TCDL         | 10.0      | Rep Stress Incr | YES             | WB        | 0.00 | Horz(CT) | 0.00 | 3     | n/a    | n/a |              |          |
| BCLL         | 0.0*      | Code            | IRC2021/TPI2014 | Matrix-MP |      |          |      |       |        |     |              |          |
| BCDL         | 10.0      |                 |                 |           |      |          |      |       |        |     |              |          |
|              |           |                 |                 |           |      |          |      |       |        |     | Weight: 9 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 or 2-4-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 2=1-11-2, 3= Mechanical, 4=1-11-2  
Max Horiz 2=21 (LC 14)  
Max Uplift 2=-31 (LC 11), 3=-7 (LC 15)  
Max Grav 2=181 (LC 22), 3=41 (LC 22), 4=16 (LC 36)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/16, 2-3=-148/111, 3-4=0/0  
BOT CHORD 2-4=-110/177

#### NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust)  
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.

- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) Bearings are assumed to be: , Joint 2 SP No.2 .
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 2, 7 lb uplift at joint 3 and 31 lb uplift at joint 2.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard



April 23, 2025

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818 Soundside Road  
Edenton, NC 27932

|          |       |            |     |     |                                  |
|----------|-------|------------|-----|-----|----------------------------------|
| Job      | Truss | Truss Type | Qty | Ply | 10 Eagle Creek - Edisto B - Roof |
| 25040104 | E15   | Jack-Open  | 4   | 1   | Job Reference (optional)         |

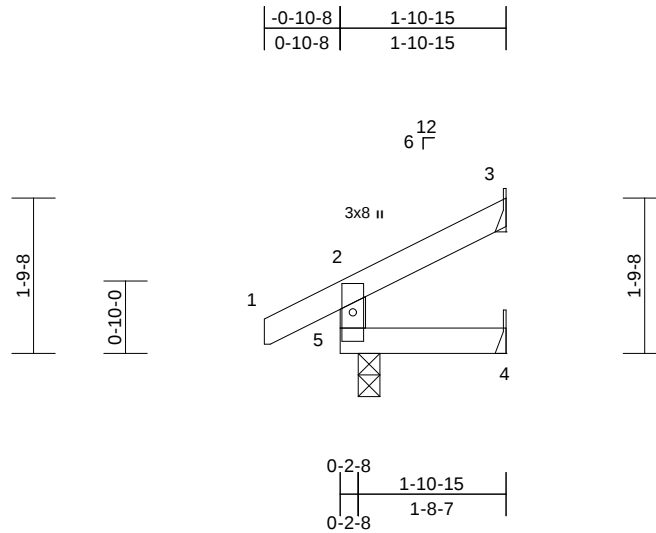
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Scale = 1:26.6

| Loading      | (psf)     | Spacing         | 2-0-0           | CSI       | DEFL | in       | (loc) | l/defl | L/d  | PLATES | GRIP         |          |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|--------------|----------|
| TCLL (roof)  | 20.0      | Plate Grip DOL  | 1.15            | TC        | 0.10 | Vert(LL) | 0.00  | 4-5    | >999 | 240    | MT20         | 244/190  |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL      | 1.15            | BC        | 0.05 | Vert(CT) | 0.00  | 4-5    | >999 | 180    |              |          |
| TCDL         | 10.0      | Rep Stress Incr | YES             | WB        | 0.00 | Horz(CT) | 0.00  | 3      | n/a  | n/a    |              |          |
| BCLL         | 0.0*      | Code            | IRC2021/TPI2014 | Matrix-MR |      |          |       |        |      |        |              |          |
| BCDL         | 10.0      |                 |                 |           |      |          |       |        |      |        | Weight: 8 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 or 1-10-15 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing.                                    |

|                  |            |                                           |
|------------------|------------|-------------------------------------------|
| <b>REACTIONS</b> | (size)     | 3= Mechanical, 4= Mechanical, 5=0-3-0     |
|                  | Max Horiz  | 5=32 (LC 12)                              |
|                  | Max Uplift | 3=18 (LC 15)                              |
|                  | Max Grav   | 3=44 (LC 22), 4=18 (LC 13), 5=165 (LC 22) |

**FORCES** (lb) - Maximum Compression/Maximum Tension

|           |                                   |
|-----------|-----------------------------------|
| TOP CHORD | 2-5=-145/98, 1-2=0/33, 2-3=-34/22 |
| BOT CHORD | 4-5=0/0                           |

**NOTES**

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.

- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 5 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 3.

**LOAD CASE(S)** Standard

April 23, 2025

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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 Edenton, NC 27932

|          |       |            |     |     |                                  |
|----------|-------|------------|-----|-----|----------------------------------|
| Job      | Truss | Truss Type | Qty | Ply | 10 Eagle Creek - Edisto B - Roof |
| 25040104 | E16   | Jack-Open  | 1   | 1   | Job Reference (optional)         |

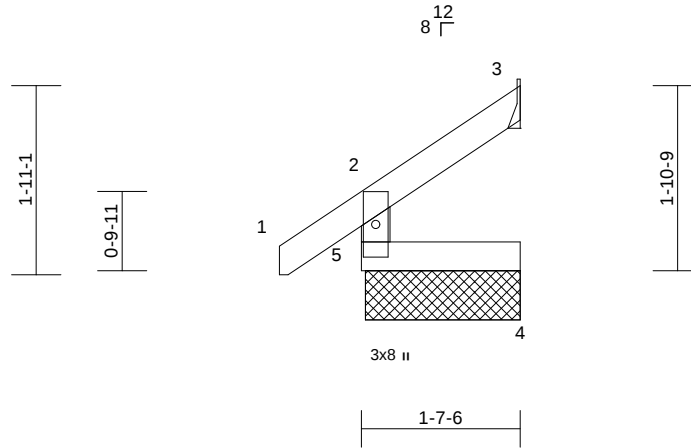
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.73 E May 9 2024 Print: 8.730 E May 9 2024 MiTek Industries, Inc. Wed Apr 23 16:12:10  
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|         |       |
|---------|-------|
| -0-10-0 | 1-7-6 |
| 0-10-0  | 1-7-6 |



Scale = 1:23.4

| Loading      | (psf)     | Spacing         | 2-0-0           | CSI       | DEFL | in       | (loc) | l/defl | L/d  | PLATES | GRIP         |          |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|--------------|----------|
| TCLL (roof)  | 20.0      | Plate Grip DOL  | 1.15            | TC        | 0.12 | Vert(LL) | 0.00  | 4-5    | >999 | 240    | MT20         | 244/190  |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL      | 1.15            | BC        | 0.05 | Vert(CT) | 0.00  | 4-5    | >999 | 180    |              |          |
| TCDL         | 10.0      | Rep Stress Incr | YES             | WB        | 0.00 | Horz(CT) | 0.00  | 3      | n/a  | n/a    |              |          |
| BCLL         | 0.0*      | Code            | IRC2021/TPI2014 | Matrix-MR |      |          |       |        |      |        |              |          |
| BCDL         | 10.0      |                 |                 |           |      |          |       |        |      |        |              |          |
|              |           |                 |                 |           |      |          |       |        |      |        | Weight: 8 lb | FT = 20% |

**LUMBER**

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

- 5) Refer to girder(s) for truss to truss connections.  
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 3.

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 1-7-6 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

LOAD CASE(S) Standard

**REACTIONS** (lb/size) 3=24/ Mechanical, 4=12/1-6-14, 5=108/1-6-14  
Max Horiz 5=35 (LC 10)  
Max Uplift 3=-19 (LC 13)  
Max Grav 3=34 (LC 29), 4=18 (LC 11), 5=132 (LC 2)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-123/85, 1-2=0/39, 2-3=-38/26  
BOT CHORD 4-5=0/0

**NOTES**

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.



April 23, 2025

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|          |       |            |     |     |                                  |
|----------|-------|------------|-----|-----|----------------------------------|
| Job      | Truss | Truss Type | Qty | Ply | 10 Eagle Creek - Edisto B - Roof |
| 25040104 | E17   | Jack-Open  | 1   | 1   | Job Reference (optional)         |

I72941944

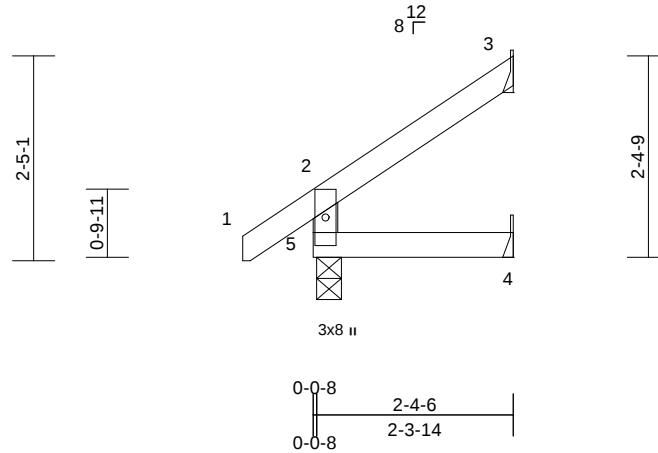
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Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Apr 22 13:52:34

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|        |       |
|--------|-------|
| 0-10-0 | 2-4-6 |
| 0-10-0 | 2-4-6 |



Scale = 1:27.2

| Loading       | (psf)     | Spacing         | 2-0-0           | CSI       | DEFL | in       | (loc) | l/defl | L/d  | PLATES | GRIP     |         |
|---------------|-----------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|----------|---------|
| TCLL (roof)   | 20.0      | Plate Grip DOL  | 1.15            | TC        | 0.14 | Vert(LL) | 0.00  | 4-5    | >999 | 240    | MT20     | 244/190 |
| Snow (Pf/Pg)  | 13.9/20.0 | Lumber DOL      | 1.15            | BC        | 0.08 | Vert(CT) | 0.00  | 4-5    | >999 | 180    |          |         |
| TCDL          | 10.0      | Rep Stress Incr | YES             | WB        | 0.00 | Horz(CT) | 0.00  | 3      | n/a  | n/a    |          |         |
| BCLL          | 0.0*      | Code            | IRC2021/TPI2014 | Matrix-MR |      |          |       |        |      |        |          |         |
| BCDL          | 10.0      |                 |                 |           |      |          |       |        |      |        |          |         |
| Weight: 10 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 or  
 2-4-6 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc  
 bracing.

**REACTIONS**

(size) 3= Mechanical, 4= Mechanical,  
 5=0-3-8  
 Max Horiz 5=46 (LC 13)  
 Max Uplift 3=-27 (LC 13)  
 Max Grav 3=58 (LC 29), 4=25 (LC 11), 5=155  
 (LC 2)

**FORCES**

(lb) - Maximum Compression/Maximum  
 Tension

TOP CHORD 2-5=-140/86, 1-2=0/39, 2-3=-55/38  
 BOT CHORD 4-5=0/0

**NOTES**

- Wind: ASCE 7-16; Vult=130mph (3-second gust)  
 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.  
 II; Exp B; Enclosed; MWFRS (envelope) and C-C  
 Exterior(2E) zone; cantilever left and right exposed ; end  
 vertical left and right exposed;C-C for members and  
 forces & MWFRS for reactions shown; Lumber  
 DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15  
 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum  
 DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully  
 Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- This truss has been designed for greater of min roof live  
 load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on  
 overhangs non-concurrent with other live loads.
- \* This truss has been designed for a live load of 20.0psf  
 on the bottom chord in all areas where a rectangle  
 3-06-00 tall by 2-00-00 wide will fit between the bottom  
 chord and any other members.

- Bearings are assumed to be: , Joint 5 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to  
 bearing plate capable of withstanding 27 lb uplift at joint  
 3.

**LOAD CASE(S)** Standard

April 23, 2025

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|          |       |            |     |     |                                  |
|----------|-------|------------|-----|-----|----------------------------------|
| Job      | Truss | Truss Type | Qty | Ply | 10 Eagle Creek - Edisto B - Roof |
| 25040104 | E18   | Jack-Open  | 4   | 1   | Job Reference (optional)         |

I72941945

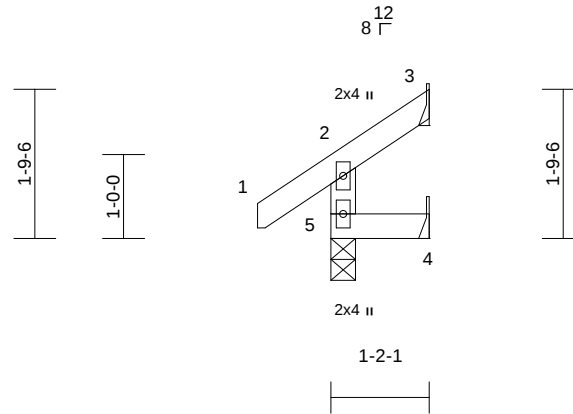
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|         |       |
|---------|-------|
| -0-10-8 | 1-2-1 |
| 0-10-8  | 1-2-1 |



Scale = 1:27.5

| Loading      | (psf)     | Spacing         | 2-0-0           | CSI       |      | DEFL     | in   | (loc) | l/defl | L/d | PLATES       | GRIP     |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|------|-------|--------|-----|--------------|----------|
| TCLL (roof)  | 20.0      | Plate Grip DOL  | 1.15            | TC        | 0.14 | Vert(LL) | 0.00 | 4-5   | >999   | 240 | MT20         | 244/190  |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL      | 1.15            | BC        | 0.05 | Vert(CT) | 0.00 | 4-5   | >999   | 180 |              |          |
| TCDL         | 10.0      | Rep Stress Incr | YES             | WB        | 0.00 | Horz(CT) | 0.00 | 3     | n/a    | n/a |              |          |
| BCLL         | 0.0*      | Code            | IRC2021/TPI2014 | Matrix-MR |      |          |      |       |        |     |              |          |
| BCDL         | 10.0      |                 |                 |           |      |          |      |       |        |     | Weight: 6 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 or  
 1-2-1 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc  
 bracing.

**REACTIONS** (size) 3= Mechanical, 4= Mechanical,  
 5=0-3-8  
 Max Horiz 5=33 (LC 10)  
 Max Uplift 3=16 (LC 19), 4=5 (LC 10)  
 Max Grav 3=16 (LC 29), 4=16 (LC 11), 5=129  
 (LC 19)

**FORCES** (lb) - Maximum Compression/Maximum  
 Tension

TOP CHORD 2-5=-120/88, 1-2=0/41, 2-3=-29/23  
 BOT CHORD 4-5=0/0

**NOTES**

- Wind: ASCE 7-16; Vult=130mph (3-second gust)  
 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.  
 II; Exp B; Enclosed; MWFRS (envelope) and C-C  
 Exterior(2E) zone; cantilever left and right exposed ; end  
 vertical left and right exposed;C-C for members and  
 forces & MWFRS for reactions shown; Lumber  
 DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15  
 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum  
 DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully  
 Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- This truss has been designed for greater of min roof live  
 load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on  
 overhangs non-concurrent with other live loads.
- \* This truss has been designed for a live load of 20.0psf  
 on the bottom chord in all areas where a rectangle  
 3-06-00 tall by 2-00-00 wide will fit between the bottom  
 chord and any other members.

- Bearings are assumed to be: , Joint 5 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to  
 bearing plate capable of withstanding 5 lb uplift at joint 4  
 and 16 lb uplift at joint 3.

**LOAD CASE(S)** Standard

April 23, 2025

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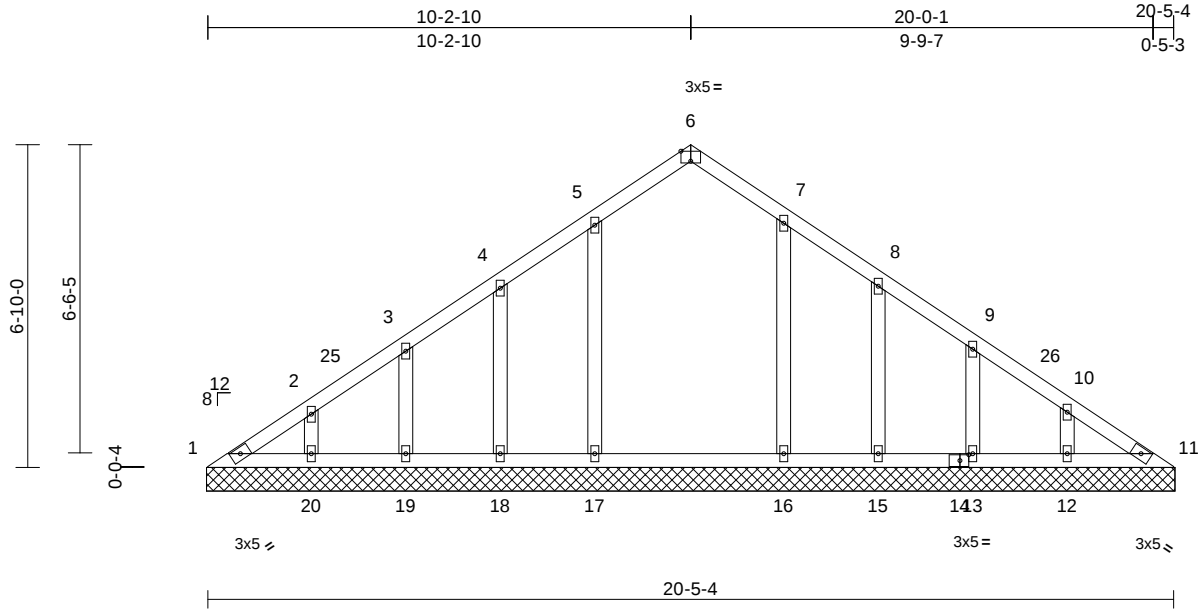
818 Soundside Road  
 Edenton, NC 27932

|          |       |            |     |     |                                  |           |
|----------|-------|------------|-----|-----|----------------------------------|-----------|
| Job      | Truss | Truss Type | Qty | Ply | 10 Eagle Creek - Edisto B - Roof |           |
| 25040104 | V1    | Valley     | 1   | 1   | Job Reference (optional)         | I72941946 |

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

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Page: 1



Scale = 1:48.8

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

| Loading      | (psf)     | Spacing         | 2-0-0           | CSI        | DEFL | in        | (loc) | l/defl | L/d | PLATES         | GRIP     |
|--------------|-----------|-----------------|-----------------|------------|------|-----------|-------|--------|-----|----------------|----------|
| TCLL (roof)  | 20.0      | Plate Grip DOL  | 1.15            | TC         | 0.06 | Vert(LL)  | n/a   | -      | 999 | MT20           | 244/190  |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL      | 1.15            | BC         | 0.14 | Vert(TL)  | n/a   | -      | 999 |                |          |
| TCDL         | 10.0      | Rep Stress Incr | YES             | WB         | 0.08 | Horiz(TL) | 0.00  | 11     | n/a |                |          |
| BCLL         | 0.0*      | Code            | IRC2021/TPI2014 | Matrix-MSH |      |           |       |        |     |                |          |
| BCDL         | 10.0      |                 |                 |            |      |           |       |        |     |                |          |
|              |           |                 |                 |            |      |           |       |        |     | Weight: 101 lb | FT = 20% |

#### LUMBER

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

#### 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** (size) 1=20-6-0, 11=20-6-0, 12=20-6-0, 13=20-6-0, 15=20-6-0, 16=20-6-0, 17=20-6-0, 18=20-6-0, 19=20-6-0, 20=20-6-0  
Max Horiz 1=-125 (LC 9)  
Max Uplift 12=-3 (LC 14), 13=-29 (LC 14), 15=-39 (LC 14), 18=-36 (LC 13), 19=-28 (LC 13), 20=-7 (LC 13)  
Max Grav 1=116 (LC 29), 11=109 (LC 31), 12=233 (LC 29), 13=194 (LC 29), 15=158 (LC 29), 16=301 (LC 29), 17=310 (LC 28), 18=155 (LC 28), 19=194 (LC 28), 20=236 (LC 28)

#### FORCES

(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-180/70, 2-3=-140/46, 3-4=-126/28, 4-5=-115/25, 5-6=-133/68, 6-7=-133/68, 7-8=-112/17, 8-9=-119/19, 9-10=-136/37, 10-11=-178/70  
BOT CHORD 1-20=-61/184, 19-20=-61/184, 18-19=-61/184, 17-18=-61/184, 16-17=-61/184, 15-16=-61/184, 13-15=-61/184, 12-13=-61/184, 11-12=-61/184  
WEBS 5-17=-157/70, 4-18=-140/94, 3-19=-142/90, 2-20=-152/80, 7-16=-154/67, 8-15=-141/95, 9-13=-141/89, 10-12=-155/81

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) 0-0-0 to 3-0-0, Exterior(2N) 3-0-0 to 10-3-0, Corner (3R) 10-3-0 to 13-3-0, Exterior(2N) 13-3-0 to 20-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 18, 28 lb uplift at joint 19, 7 lb uplift at joint 20, 39 lb uplift at joint 15, 29 lb uplift at joint 13 and 3 lb uplift at joint 12.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 11.

**LOAD CASE(S)** Standard



April 23,2025

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute ([www.tpinst.org](http://www.tpinst.org)) and **BCSI Building Component Safety Information** available from the Structural Building Component Association ([www.sbcacomponents.com](http://www.sbcacomponents.com))

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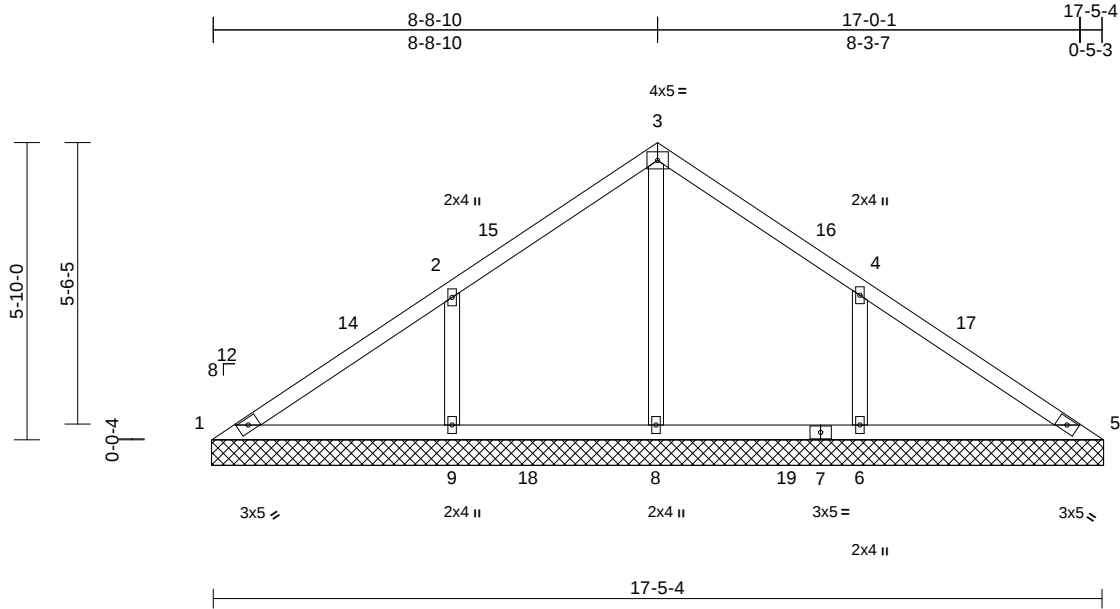
818 Soundside Road  
Edenton, NC 27932

|          |       |            |     |     |                                  |           |
|----------|-------|------------|-----|-----|----------------------------------|-----------|
| Job      | Truss | Truss Type | Qty | Ply | 10 Eagle Creek - Edisto B - Roof |           |
| 25040104 | V2    | Valley     | 1   | 1   | Job Reference (optional)         | I72941947 |

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

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Apr 22 13:52:34  
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Page: 1



Scale = 1:45.2

| Loading      | (psf)     | Spacing         | 2-0-0           | CSI        | DEFL | in        | (loc) | l/defl | L/d | PLATES        | GRIP     |
|--------------|-----------|-----------------|-----------------|------------|------|-----------|-------|--------|-----|---------------|----------|
| TCLL (roof)  | 20.0      | Plate Grip DOL  | 1.15            | TC         | 0.29 | n/a       | -     | n/a    | 999 | MT20          | 244/190  |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL      | 1.15            | BC         | 0.19 | n/a       | -     | n/a    | 999 |               |          |
| TCDL         | 10.0      | Rep Stress Incr | YES             | WB         | 0.21 | Horiz(TL) | 0.00  | 5      | n/a |               |          |
| BCLL         | 0.0*      | Code            | IRC2021/TPI2014 | Matrix-MSH |      |           |       |        |     |               |          |
| BCDL         | 10.0      |                 |                 |            |      |           |       |        |     | Weight: 71 lb | FT = 20% |

#### LUMBER

|           |             |
|-----------|-------------|
| TOP CHORD | 2x4 SP No.2 |
| BOT CHORD | 2x4 SP No.2 |
| OTHERS    | 2x4 SP No.3 |

#### BRACING

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

#### REACTIONS

|            |                                                                          |
|------------|--------------------------------------------------------------------------|
| (size)     | 1=17-6-0, 5=17-6-0, 6=17-6-0, 8=17-6-0, 9=17-6-0                         |
| Max Horiz  | 1=106 (LC 12)                                                            |
| Max Uplift | 6=-65 (LC 14), 9=-66 (LC 13)                                             |
| Max Grav   | 1=99 (LC 34), 5=102 (LC 35), 6=506 (LC 29), 8=518 (LC 28), 9=505 (LC 28) |

#### FORCES

|                                            |                                                     |
|--------------------------------------------|-----------------------------------------------------|
| (lb) - Maximum Compression/Maximum Tension |                                                     |
| TOP CHORD                                  | 1-2=-115/271, 2-3=0/214, 3-4=0/197, 4-5=-119/257    |
| BOT CHORD                                  | 1-9=-179/112, 8-9=-179/78, 6-8=-177/78, 5-6=-177/96 |
| WEBS                                       | 3-8=-362/0, 2-9=-345/141, 4-6=-344/140              |

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 8-9-0, Exterior(2R) 8-9-0 to 11-9-0, Interior (1) 11-9-0 to 17-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 66 lb uplift at joint 9 and 65 lb uplift at joint 6.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 5.

LOAD CASE(S) Standard



April 23, 2025

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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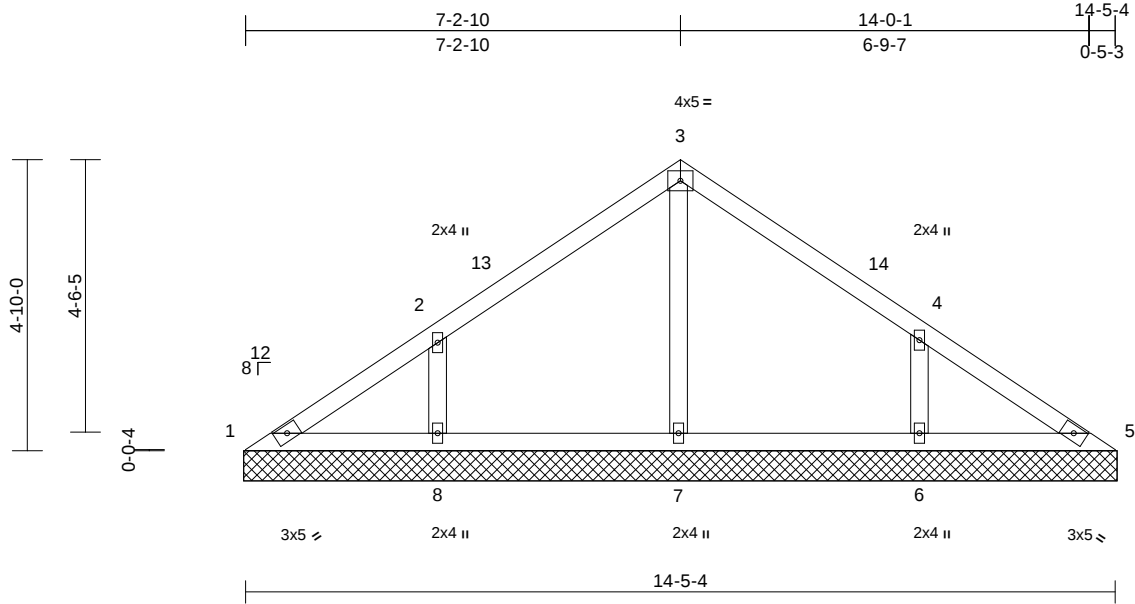
818 Soundside Road  
Edenton, NC 27932

|          |       |            |     |     |                                  |           |
|----------|-------|------------|-----|-----|----------------------------------|-----------|
| Job      | Truss | Truss Type | Qty | Ply | 10 Eagle Creek - Edisto B - Roof | 172941948 |
| 25040104 | V3    | Valley     | 1   | 1   | Job Reference (optional)         |           |

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

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Apr 22 13:52:34  
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Page: 1



Scale = 1:38.3

| Loading      | (psf)     | Spacing         | 2-0-0           | CSI        | DEFL | in        | (loc) | l/defl | L/d | PLATES        | GRIP     |
|--------------|-----------|-----------------|-----------------|------------|------|-----------|-------|--------|-----|---------------|----------|
| TCLL (roof)  | 20.0      | Plate Grip DOL  | 1.15            | TC         | 0.20 | n/a       | -     | n/a    | 999 | MT20          | 244/190  |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL      | 1.15            | BC         | 0.08 | n/a       | -     | n/a    | 999 |               |          |
| TCDL         | 10.0      | Rep Stress Incr | YES             | WB         | 0.10 | Horiz(TL) | 0.00  | 5      | n/a |               |          |
| BCLL         | 0.0*      | Code            | IRC2021/TPI2014 | Matrix-MSH |      |           |       |        |     |               |          |
| BCDL         | 10.0      |                 |                 |            |      |           |       |        |     | Weight: 57 lb | FT = 20% |

#### LUMBER

|           |             |
|-----------|-------------|
| TOP CHORD | 2x4 SP No.2 |
| BOT CHORD | 2x4 SP No.2 |
| OTHERS    | 2x4 SP No.3 |

#### BRACING

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

#### REACTIONS

|            |                                                                       |
|------------|-----------------------------------------------------------------------|
| (size)     | 1=14-6-0, 5=14-6-0, 6=14-6-0, 7=14-6-0, 8=14-6-0                      |
| Max Horiz  | 1=87 (LC 10)                                                          |
| Max Uplift | 1=-3 (LC 9), 6=-53 (LC 14), 8=-55 (LC 13)                             |
| Max Grav   | 1=93 (LC 29), 5=90 (LC 2), 6=345 (LC 29), 7=312 (LC 2), 8=346 (LC 28) |

#### FORCES

|                                            |                                                   |
|--------------------------------------------|---------------------------------------------------|
| (lb) - Maximum Compression/Maximum Tension |                                                   |
| TOP CHORD                                  | 1-2=-123/115, 2-3=-78/93, 3-4=-79/90, 4-5=-111/88 |
| BOT CHORD                                  | 1-8=-50/106, 7-8=-50/54, 6-7=-49/54, 5-6=-49/88   |
| WEBS                                       | 3-7=-235/6, 2-8=-298/148, 4-6=-296/147            |

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 3-2-10, Interior (1) 3-2-10 to 7-3-0, Exterior(2R) 7-3-0 to 10-3-0, Interior (1) 10-3-0 to 14-6-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 1, 55 lb uplift at joint 8 and 53 lb uplift at joint 6.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 5.

LOAD CASE(S) Standard



April 23, 2025

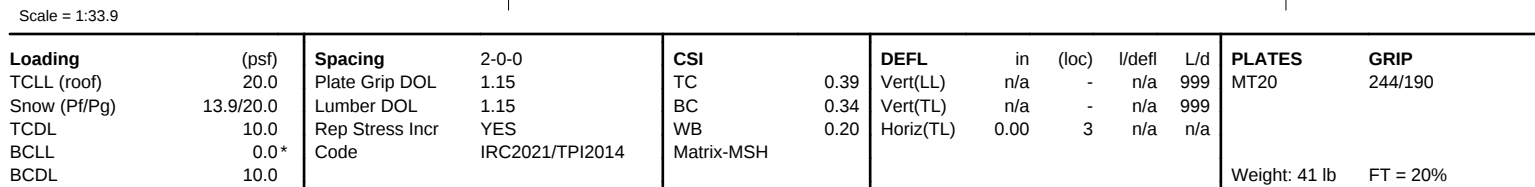
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute ([www.tpinst.org](http://www.tpinst.org)) and **BCSI Building Component Safety Information** available from the Structural Building Component Association ([www.sbcacomponents.com](http://www.sbcacomponents.com))

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Carter Components (Sanford, NC), Sanford, NC - 27332, Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Apr 22 13:52:34 Page: 1  
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- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 4'-0" oc.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-0" tall by 2'-0" wide will fit between the bottom chord and any other members.
- 8) All bearings are assumed to be SP No.2 .
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 1, 50 lb uplift at joint 3 and 3 lb uplift at joint 4.

**LOAD CASE(S)** Standard

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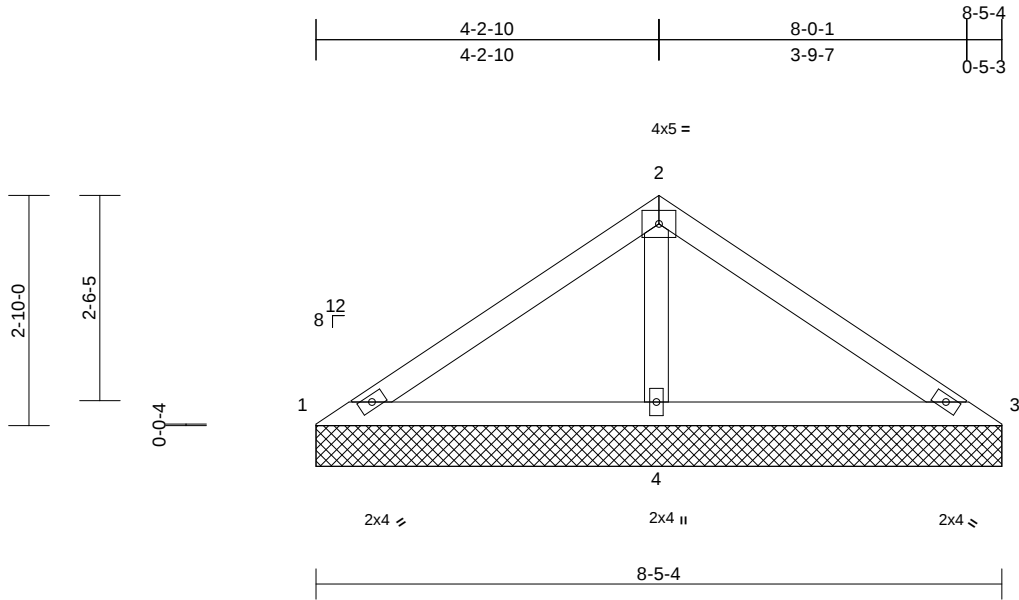
818 Soundside Road  
Edenton, NC 27932

|          |       |            |     |     |                                  |           |
|----------|-------|------------|-----|-----|----------------------------------|-----------|
| Job      | Truss | Truss Type | Qty | Ply | 10 Eagle Creek - Edisto B - Roof |           |
| 25040104 | V5    | Valley     | 1   | 1   | Job Reference (optional)         | I72941950 |

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

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Apr 22 13:52:34  
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Page: 1



Scale = 1:28.3

| Loading      | (psf)     | Spacing         | 2-0-0           | CSI       |      | DEFL      | in   | (loc) | l/defl | L/d | PLATES        | GRIP     |
|--------------|-----------|-----------------|-----------------|-----------|------|-----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof)  | 20.0      | Plate Grip DOL  | 1.15            | TC        | 0.23 | Vert(LL)  | n/a  | -     | n/a    | 999 | MT20          | 244/190  |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL      | 1.15            | BC        | 0.21 | Vert(TL)  | n/a  | -     | n/a    | 999 |               |          |
| TCDL         | 10.0      | Rep Stress Incr | YES             | WB        | 0.10 | Horiz(TL) | 0.00 | 3     | n/a    | n/a |               |          |
| BCLL         | 0.0*      | Code            | IRC2021/TPI2014 | Matrix-MP |      |           |      |       |        |     |               |          |
| BCDL         | 10.0      |                 |                 |           |      |           |      |       |        |     |               |          |
|              |           |                 |                 |           |      |           |      |       |        |     | Weight: 29 lb | FT = 20% |

#### LUMBER

|           |             |
|-----------|-------------|
| TOP CHORD | 2x4 SP No.2 |
| BOT CHORD | 2x4 SP No.2 |
| OTHERS    | 2x4 SP No.3 |

#### BRACING

|           |                                                                 |
|-----------|-----------------------------------------------------------------|
| TOP CHORD | Structural wood sheathing directly applied or 8-5-4 oc purlins. |
| BOT CHORD | Rigid ceiling directly applied or 6-0-0 oc bracing.             |

#### REACTIONS

|            |                                          |
|------------|------------------------------------------|
| (size)     | 1=8-5-4, 3=8-5-4, 4=8-5-4                |
| Max Horiz  | 1=50 (LC 12)                             |
| Max Uplift | 1=-19 (LC 35), 3=-16 (LC 34)             |
| Max Grav   | 1=65 (LC 34), 3=69 (LC 35), 4=609 (LC 2) |

#### FORCES

|                                            |                            |
|--------------------------------------------|----------------------------|
| (lb) - Maximum Compression/Maximum Tension |                            |
| TOP CHORD                                  | 1-2=-105/311, 2-3=-102/304 |
| BOT CHORD                                  | 1-4=-265/157, 3-4=-259/155 |
| WEBS                                       | 2-4=-519/202               |

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-6 to 3-0-6, Interior (1) 3-0-6 to 4-3-0, Exterior(2R) 4-3-0 to 7-6-7, Interior (1) 7-6-7 to 8-5-10 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 1 and 16 lb uplift at joint 3.

LOAD CASE(S) Standard



April 23,2025

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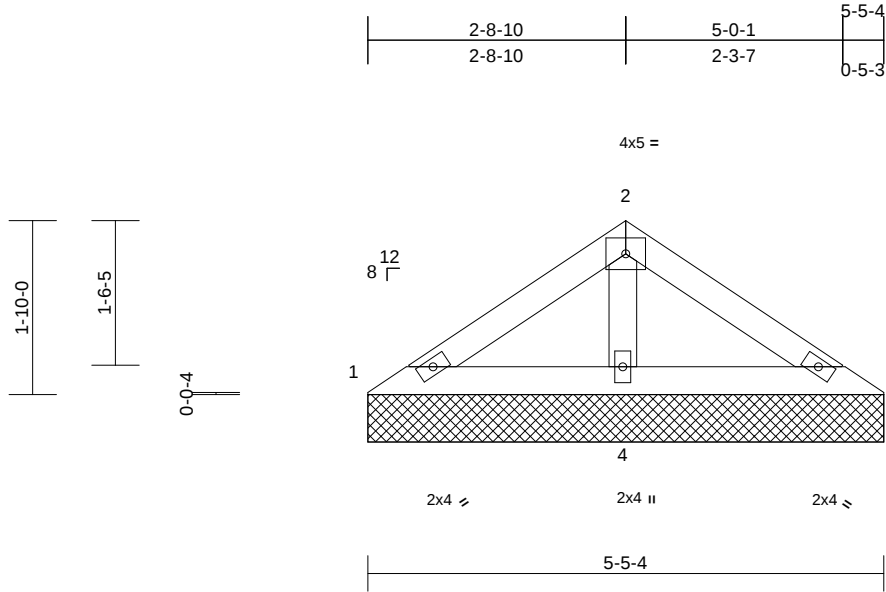
818 Soundside Road  
Edenton, NC 27932

|          |       |            |     |     |                                  |           |
|----------|-------|------------|-----|-----|----------------------------------|-----------|
| Job      | Truss | Truss Type | Qty | Ply | 10 Eagle Creek - Edisto B - Roof |           |
| 25040104 | V6    | Valley     | 1   | 1   | Job Reference (optional)         | I72941951 |

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

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Apr 22 13:52:34  
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Page: 1



Scale = 1:24.3

| Loading      | (psf)     | Spacing         | 2-0-0           | CSI       |      | DEFL      | in   | (loc) | l/defl | L/d | PLATES        | GRIP     |
|--------------|-----------|-----------------|-----------------|-----------|------|-----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof)  | 20.0      | Plate Grip DOL  | 1.15            | TC        | 0.08 | Vert(LL)  | n/a  | -     | n/a    | 999 | MT20          | 244/190  |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL      | 1.15            | BC        | 0.09 | Vert(TL)  | n/a  | -     | n/a    | 999 |               |          |
| TCDL         | 10.0      | Rep Stress Incr | YES             | WB        | 0.04 | Horiz(TL) | 0.00 | 3     | n/a    | n/a |               |          |
| BCLL         | 0.0*      | Code            | IRC2021/TPI2014 | Matrix-MP |      |           |      |       |        |     |               |          |
| BCDL         | 10.0      |                 |                 |           |      |           |      |       |        |     | Weight: 18 lb | FT = 20% |

#### LUMBER

|           |             |
|-----------|-------------|
| TOP CHORD | 2x4 SP No.2 |
| BOT CHORD | 2x4 SP No.2 |
| OTHERS    | 2x4 SP No.3 |

#### BRACING

|           |                                                                 |
|-----------|-----------------------------------------------------------------|
| TOP CHORD | Structural wood sheathing directly applied or 5-5-4 oc purlins. |
| BOT CHORD | Rigid ceiling directly applied or 6-0-0 oc bracing.             |

#### REACTIONS

|            |                                          |
|------------|------------------------------------------|
| (size)     | 1=5-5-4, 3=5-5-4, 4=5-5-4                |
| Max Horiz  | 1=-31 (LC 11)                            |
| Max Uplift | 3=-2 (LC 14)                             |
| Max Grav   | 1=64 (LC 34), 3=67 (LC 35), 4=332 (LC 2) |

#### FORCES

(lb) - Maximum Compression/Maximum Tension

|           |                          |
|-----------|--------------------------|
| TOP CHORD | 1-2=-60/129, 2-3=-66/123 |
| BOT CHORD | 1-4=-116/91, 3-4=-111/88 |
| WEBS      | 2-4=-248/109             |

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Gable requires continuous bottom chord bearing.

- Gable studs spaced at 4-0-0 oc.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 3.

LOAD CASE(S) Standard



April 23, 2025

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

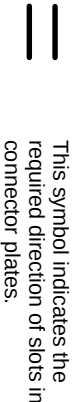
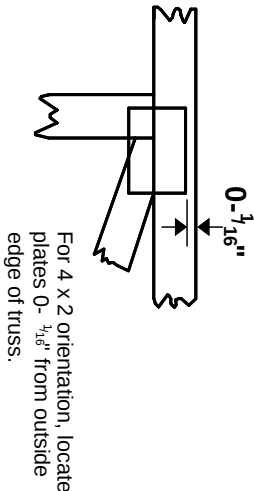
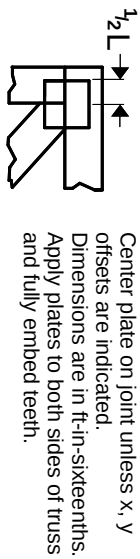
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute ([www.tpinst.org](http://www.tpinst.org)) and **BCSI Building Component Safety Information** available from the Structural Building Component Association ([www.sbcacompnents.com](http://www.sbcacompnents.com))

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**TRENCO**  
A MiTek Affiliate

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Edenton, NC 27932

# Symbols

## PLATE LOCATION AND ORIENTATION



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

## PLATE SIZE

**4 X 4**

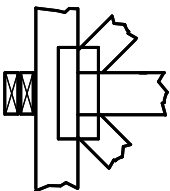
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## 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

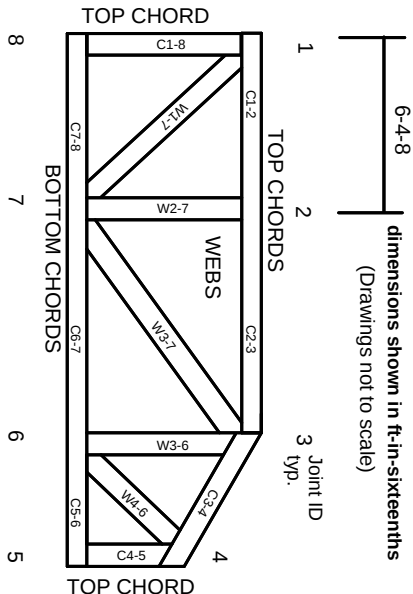


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

## Industry Standards:

ANSI/TP1.1: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-22: Design Standard for Bracing.  
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

# Numbering System



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-1988, ESR-2362, ESR-2685, ESR-3282  
ESR-4722, ESL-1388

# Design General Notes

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

Lumber design values are in accordance with ANSI/TP1 1 section 6.3. These truss designs rely on lumber values established by others.

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# General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
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.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

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MITek Engineering Reference Sheet: MIL-7473 rev. 1/2/2023