

RE: 4687085 - DREAM FINDERS HOMES DOGWOOD 195 STEEPLE RIDGE **Trenco**

818 Soundside Rd  
Edenton, NC 27932

**Site Information:**

Project Customer: DREAM FINDERS HOMES Project Name:  
Lot/Block: 475 Subdivision: THE COLONY @ LEXINGTON PLANTATION  
Address: 195 STEEPLE RIDGE  
City: CAMERON State: NC

**Name Address and License # of Structural Engineer of Record, If there is one, for the building.**

Name: License #:  
Address:  
City, County: State:

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

Design Code: IRC2018/TPI2014 Design Program: MiTek 20/20 8.8  
Wind Code: ASCE 7-16 Design Method: MWFRS (Directional)/C-C hybrid Wind ASCE 7-16  
Wind Speed: 150 mph  
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 1 individual, dated Truss Design Drawings and 0 Additional Drawings.

| No. | Seal#     | Job ID# | Truss Name | Date    |
|-----|-----------|---------|------------|---------|
| 1   | I76799735 | 4687085 | A04        | 10/3/25 |

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

Truss Design Engineer's Name: Gilbert, Eric

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

**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



October 3, 2025

Gilbert, Eric

RE: \$JOBNAME - \$JOBDESC

**Trenco**

818 Soundside Rd  
Edenton, NC 27932

**Site Information:**

Project Customer: \$SI\_CUSTOMER    Project Name: \$SI\_JOBNAME  
Lot/Block: \$SI\_LOTNUM                      Subdivision: \$SI\_SUBDIV  
Address: \$SI\_SITEADDR  
City, County: \$SI\_SITECITY                      State: \$SI\_SITESTATE

RE: \$JOBNAME - \$JOBDESC

**Trenco**

818 Soundside Rd  
Edenton, NC 27932

**Site Information:**

Project Customer: \$SI\_CUSTOMER    Project Name: \$SI\_JOBNAME  
Lot/Block: \$SI\_LOTNUM                      Subdivision: \$SI\_SUBDIV  
Address: \$SI\_SITEADDR  
City, County: \$SI\_SITECITY                      State: \$SI\_SITESTATE

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, 8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 2 13:08:14 2025 Page 1

ID:PFhEEKzMO6?Kz1KM4J4YUByNvpB-vfNkhE89iVop06ZXf7cUn08MH9Xib22uJjoRtyXrNl

REPAIR: REPLACE 8' OF BOTTOM CHORD STARTING FROM RIGHT END

Scale = 1:75.6



|                      |                       |             |                       |        |     |                |             |
|----------------------|-----------------------|-------------|-----------------------|--------|-----|----------------|-------------|
| <b>LOADING</b> (psf) | <b>SPACING-</b> 2-0-0 | <b>CSI.</b> | <b>DEFL.</b> in (loc) | l/defl | L/d | <b>PLATES</b>  | <b>GRIP</b> |
| TCLL 20.0            | Plate Grip DOL 1.15   | TC 0.74     | Vert(LL) -0.34 13-15  | >999   | 360 | MT20           | 244/190     |
| TCDL 10.0            | Lumber DOL 1.15       | BC 0.95     | Vert(CT) -0.60 13-15  | >791   | 240 |                |             |
| BCLL 0.0 *           | Rep Stress Incr YES   | WB 0.78     | Horz(CT) 0.33 11      | n/a    | n/a |                |             |
| BCDL 10.0            | Code IRC2018/TPI2014  | Matrix-MS   | Wind(LL) 0.23 18-25   | >999   | 240 | Weight: 259 lb | FT = 20%    |

|                                           |
|-------------------------------------------|
| 2-19: 2x6 SP No.2, 3-19,5-16: 2x4 SP No.2 |
| WEBS 2x4 SP No.3                          |
| WEDGE                                     |
| Left: 2x4 SP No.3                         |
| SLIDER Right 2x6 SP No.2 1-11-12          |

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

TOP CHORD 3-21=-802/179, 3-4=-3461/665, 4-5=-2581/597, 5-6=-2445/672, 6-7=-1887/545,  
7-8=-2173/558, 8-9=-2740/584, 9-11=-2880/587

BOT CHORD 3-18=-472/3281, 17-18=-470/3293, 13-15=-335/2252, 11-13=-424/2477

WEBS 4-18=0/335, 4-17=-1124/251, 15-17=-184/1965, 6-17=-251/1149, 6-15=-390/60,  
7-15=-83/665, 8-15=-618/218, 8-13=-6/420

The seal of the State of North Carolina is located in the bottom right corner. It features a circular design with the words "NORTH CAROLINA" around the top and "1776" at the bottom. In the center is a shield with a plow and a sheaf of wheat, flanked by a cotton plant and a tobacco plant. A banner across the shield reads "ESSE QUAM VIDERI". The seal is partially obscured by a red diagonal line.

- 

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

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

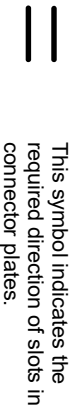
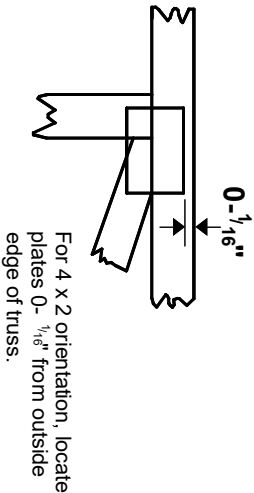
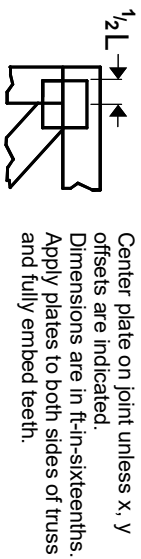
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP11 Quality Criteria and DSB-22** available from Truss Plate Institute ([www.tpinst.org](http://www.tpinst.org)) and **BCSI Building Component Safety Information** available from the Structural Building Component Association ([www.sbcacompnents.com](http://www.sbcacompnents.com))

**ENGINEERING BY**  
**TRENCO**  
A MITEK COMPANY

818 Soundside Road  
Edenton, NC 27932

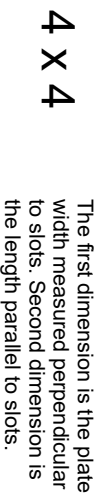
# Symbols

## PLATE LOCATION AND ORIENTATION

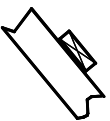


\* Plate location details available in MITek software or upon request.

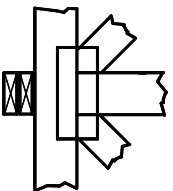
## PLATE SIZE



## LATERAL BRACING LOCATION



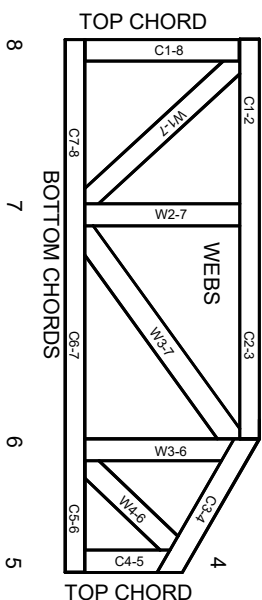
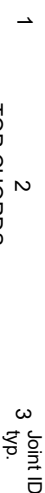
## BEARING



## Industry Standards:

ANSI/TP11: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-22: 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-EES 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.