

RE: 4687085_(1) - THE COLONY @ LEXINGTON PLANTATION - 195 STEEPLE RIDGE

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	I76891665	4687085_(1)	B02	10/8/25

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 8, 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

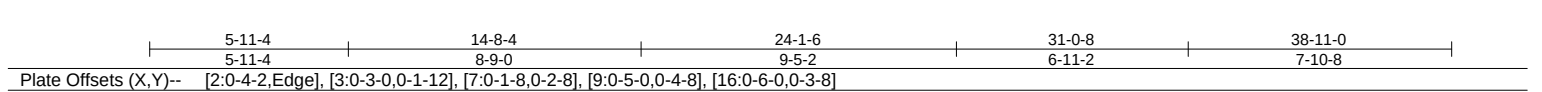
RE: \$JOBNAME - \$JOBDESC

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. Tue Oct 7 12:49:05 2025 Page 1
ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-1Kjd0IPehXc8RIJxJZIJ2Y3Ysx_em?1Xwj13byVobi
24-1-6
3-11-4 5-11-4 10-3-12 14-8-4 19-3-15 22-8-4 23-5-8 31-0-8 38-11-0
3-11-4 2-0-0 4-4-8 4-4-8 4-7-11 3-4-5 0-9-4 6-11-2 7-10-8
0-7-14
Scale = 1:68.9



LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2 *Except* 8-9,9-10: 2x6 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-1-4 oc purlins, except end verticals, and 2-0-0 oc purlins (3-7-10 max.): 2-3, 5-7.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 9-8-5 oc bracing.
WEBS	2x4 SP No.3 *Except* 1-17: 2x4 SP No.2	WEBS	1 Row at midpt 6-14, 6-13
WEDGE Right: 2x4 SP No.3			

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 2-4-12 to 5-4-12, Interior(1) 5-4-12 to 6-2-4, Exterior(2E) 6-2-4 to 8-2-4, Interior(1) 8-2-4 to 16-11-4, Exterior(2R) 16-11-4 to 19-11-4, Interior(1) 19-11-4 to 26-7-0, Exterior(2R) 25-8-8 to 28-8-8, Interior(1) 28-8-8 to 41-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=320, 10=316.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

October 8, 2025

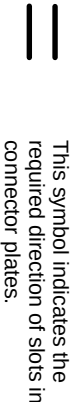
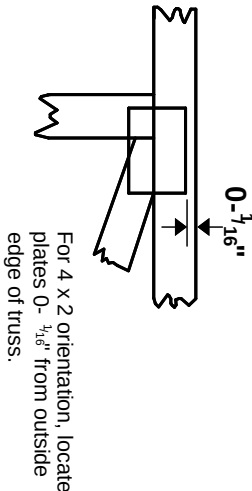
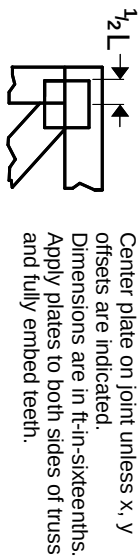
ENGINEERING BY
TRENCO
A MilTek Affiliate

818 Soundside Road
Edenton, NC 27932

w.tpinst.org)

Symbols

PLATE LOCATION AND ORIENTATION



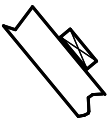
* Plate location details available in MITek software or upon request.

PLATE SIZE

4 X 4

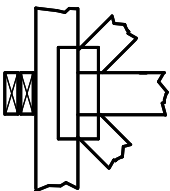
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

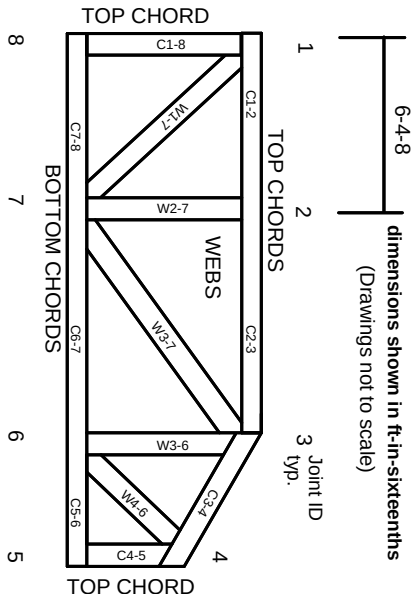


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

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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TRENCO
A MITek Affiliate

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