

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

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 176799735 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_SITEADER

City, County: \$SI_SITECITY State: \$SI_SITESTATE



RE: \$JOBNAME - \$JOBDESC

Trenco

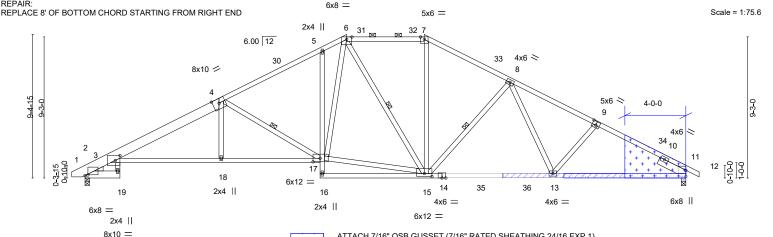
818 Soundside Rd Edenton, NC 27932

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

DREAM FINDERS HOMES DOGWOOD 195 STEEPLE RIDGE Job Truss Truss Type Qty 4687085 A04 HIP Job Reference (optional) 8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 2 13:08:14 2025 Page 1 ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-vfNkhE89iVop06ZXFI7cUn08MH9Xlb22uJjoRtyXRnI Builders FirstSource (Sumter, SC) Sumter, SC - 29153. 40-3-8 27-10-9 33-6-0 39-5-0 8-11-4 15-5-0 17-1-15 22-3-1 6-5-12 1-8-15 5-1-3



INSTALL 2 X 4 SPF/DF/SP NO.1 CUT TO FIT TIGHT. ATTACH 7/16" OSB GUSSET (7/16" RATED SHEATHING 24/16 EXP 1)
TO EACH FACE OF TRUSS WITH (0.131" X 2.5" MIN.) NAILS PER THE FOLLOWING NAIL SCHEDULE:
2 X 3"S - 2 ROWS, 2 X 4"S - 3 ROWS, 2 X 6"S AND LARGER - 4 ROWS: SPACED @ 4" O.C.
NAILS TO BE DRIVEN FROM BOTH FACES. STAGGER SPACING FROM FRONT TO BACK FACE
FOR A NET 2" O.C. SPACING IN EACH COVERED TRUSS MEMBER. USE 2" MEMBER END DISTANCE.

APPLY 2 X 4 X 8' SPF/DF/SP NO.2 SCAB(S) TO EACH FACE OF TRUSS CENTERED ON DAMAGE/SPLICE OR AS SHOWN. ATTACH WITH (0.131" X 3") NAILS PER THE FOLLOWING NAIL SCHEDULE: 2 x 3'S - 1 ROW, 2 x 4'S - 2 ROWS, 2 x 6'S AND LARGER - 3 ROWS: SPACED @ 4" O.C. STAGGER NAIL SPACING FROM FRONT FACE AND BACK FACE FOR A NET 2" O.C SPACING IN THE TRUSS. USE 2" MEMBER END DISTANCE.

2-0-0 oc purlins (3-10-5 max.): 6-7.

1 Row at midpt

Rigid ceiling directly applied or 2-2-0 oc bracing.

Structural wood sheathing directly applied or 2-7-9 oc purlins, except

4-17, 6-15, 8-15

	∟ 2-3-8	8-11-4	15-5-0		22-3-1	30-8	3-5	39-5-0	
	2-3-8	6-7-12	6-5-12	'	6-10-1	8-5	-3	8-8-11	ı
Plate Offsets (X,Y) [2:0-2-4,0-0-9], [3:0-3-13,0-4-0], [6:0-4-2,Edge], [9:0-3-0,0-3-0], [11:0-4-13,0-0-1], [15:0-6-0,0-2-4], [17:0-5-8,0-2-12]									
LOADING (psf)		SPACING- 2	-0-0 CS		DEFL.	in (loc)	I/defl L/c	PLATES	GRIP
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 WE	0.78	Horz(CT)	0.33 11	n/a n/a	a	
BCDL 10.0		Code IRC2018/TPI20)14 Ma	rix-MS	Wind(LL)	0.23 18-25	>999 240	Weight: 259 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD 2x4 SP No.2 *Except*

1-4: 2x8 SP 2400F 2.0E or 2x8 SP DSS

9-12: 2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 SP SS

BOT CHORD 2x4 SP No.1 *Except*

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

REACTIONS. (size) 2=0-3-8, 11=0-3-8 Max Horz 2=-198(LC 10)

Max Uplift 2=-301(LC 12), 11=-324(LC 12)

Max Grav 2=1777(LC 17), 11=1794(LC 18)

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

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) -0-6-5 to 2-3-3, Interior(1) 2-3-3 to 17-1-15, Exterior(2R) 17-1-15 to 21-4-13, Interior(1) 21-4-13 to 22-3-1, Exterior(2R) 22-3-1 to 26-6-0, Interior(1) 26-6-0 to 40-3-8 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=301. 11=324.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- 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 MITTER REFERENCE PAGE MILI-473 Feb (1)/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 chort 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)



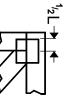
October 3,2025



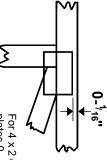
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 × 4

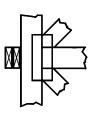
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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/TPI1: National I

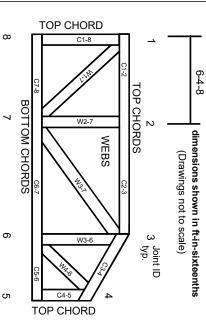
National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.
Building Component Safety Information, Guide to Good Practice for Handling.

Installing, Restraining & Bracing of Metal

Plate Connected Wood Trusses

DSB-22:

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/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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ENGINEERING BY

MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

↑ General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- 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.

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Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

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- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- 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
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- The design does not take into account any dynamic or other loads other than those expressly stated.