

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 25010028-01 131 Hidden Lakes North-Roof-Plan 8 BNS - 45 Blackgum Ct

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

Pages or sheets covered by this seal: I72924346 thru I72924346

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

North Carolina COA: C-0844



April 23,2025

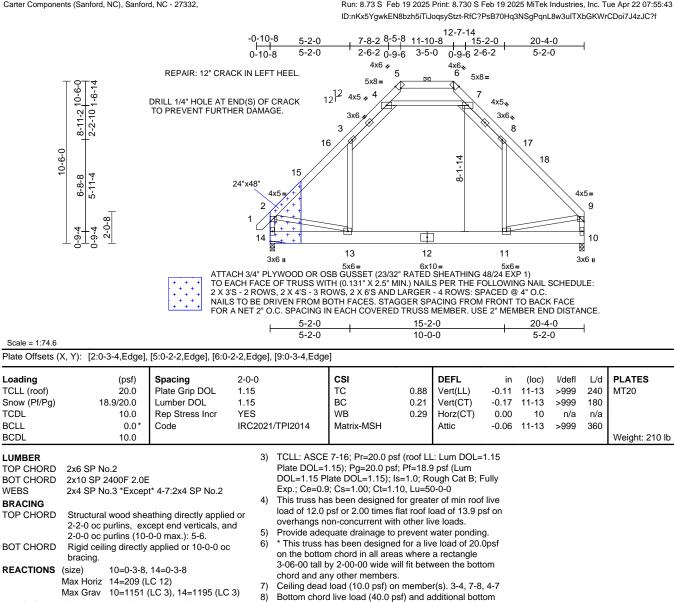
**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), 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.

| Job         | Truss | Truss Type | Qty | Ply | 131 Hidden Lakes North-Roof-Plan 8 BNS | 172924346 |
|-------------|-------|------------|-----|-----|--|-----------|
| 25010028-01 | B03   | Attic      | 4   | 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 07:55:43

Page: 1



chord dead load (5.0 psf) applied only to room. 11-13

10) Graphical purlin representation does not depict the size

or the orientation of the purlin along the top and/or

All bearings are assumed to be SP 2400F 2.0E

11) Attic room checked for L/360 deflection.

FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/45 2-3=-1300/0 3-4=-876/98 4-5=-35/394, 5-6=-75/620, 6-7=-44/393, 7-8=-878/110, 8-9=-1291/3, 2-14=-1294/16, 9-10=-1242/0 BOT CHORD 13-14=-205/277, 11-13=0/812, 10-11=-48/134 WEBS 3-13=-12/507, 8-11=-22/497, 4-7=-1492/226,

NOTES

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

2-13=0/727, 9-11=0/742

Wind: ASCE 7-16; Vult=130mph (3-second gust) 2) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-6 to 2-3-10, Interior (1) 2-3-10 to 8-5-8, Exterior(2E) 8-5-8 to 11-10-8, Exterior(2R) 11-10-8 to 16-1-7, Interior (1) 16-1-7 to 20-2-4 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

and annound of C SEAL 2867 GA

April 23,2025

GRIP

244/190

FT = 20%



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 bilding 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)

bottom chord.

LOAD CASE(S) Standard

818 Soundside Road Edenton, NC 27932

