

RE: J0922-4911 Lot 2 Marks Road Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Project Name: J0922-4911 Lot/Block: Address: City:

Model: Subdivision: State:

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

Design Code: IRC2015/TPI2014 Wind Code: ASCE 7-10 Roof Load: 40.0 psf Design Program: MiTek 20/20 8.4 Wind Speed: 130 mph Floor Load: N/A psf

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

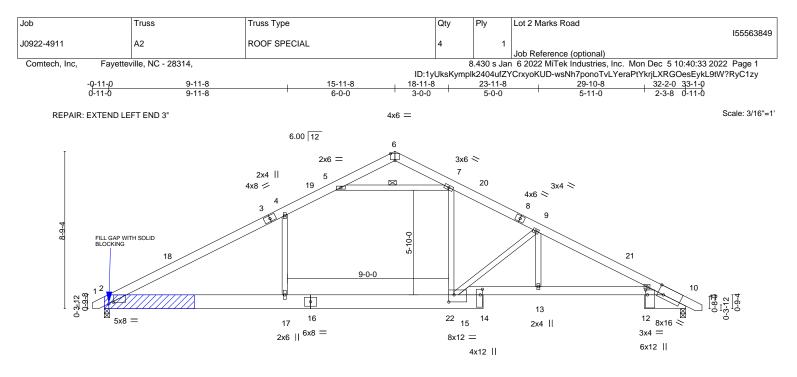
 No.
 Seal#
 Truss Name
 Date

 1
 I55563849
 A2
 12/6/2022

The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville. Truss Design Engineer's Name: Gilbert, Eric My license renewal date for the state of North Carolina is December 31, 2023 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.





ŀ	<u>9-11-8</u> 9-11-8	18-11			23-11-8 3-1-0	29-10-8 5-11-0		1
Plate Offsets (X,Y)	[2:0-3-2,0-0-14], [6:0-3-0,Edge], [10:0-4	-0,Edge], [12:0-3-4,0-1-4]	, [14:0-3-12,0-1-8], [1	5:0-3-8,0-4	4-12]			
LOADING         (psf)           TCLL         20.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2015/TPI2014	<b>CSI.</b> TC 0.72 BC 0.66 WB 0.71 Matrix-S	Vert(CT) -0. Horz(CT) 0.	in (loc) 20 17 35 17 09 10 15 2-17	>999 3 >999 2 n/a 1	_/d 60 40 n/a 40	PLATES MT20 Weight: 245 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER-           TOP CHORD         2x6 SP No.1           BOT CHORD         2x10 SP No.1 *Except*           10-15: 2x6 SP 2400F 2.0E           WEBS         2x4 SP No.2			BRACING- TOP CHORD BOT CHORD WEBS	Rigid	Structural wood sheathing directly applied or 4-1-2 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt 5-7			
REACTIONS.       (size)       2=0-3-8, 10=0-3-8         Max Horz       2=-111(LC 10)         Max Uplift       2=-88(LC 12), 10=-90(LC 13)         Max Grav       2=1386(LC 2), 10=1343(LC 2)								
TOP CHORD 2-4=	. Comp./Max. Ten All forces 250 (lb) or 2191/400, 4-5=-1838/478, 7-9=-2220/5 '=-187/1815, 15-17=-189/1827, 13-15=-3	13, 9-10=-2864/547						

WEBS 7-15=-110/948, 4-17=-17/415, 5-7=-1904/450, 9-15=-1085/235, 9-13=0/625

## NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 15-11-8, Exterior(2) 15-11-8 to 20-4-5, Interior(1) 20-4-5 to 32-10-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) \* This truss has been designed for a live load of 30.0psf 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.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



