

Doug Dlaylock 910 263 0486



Job: Ruppert / Sunroom

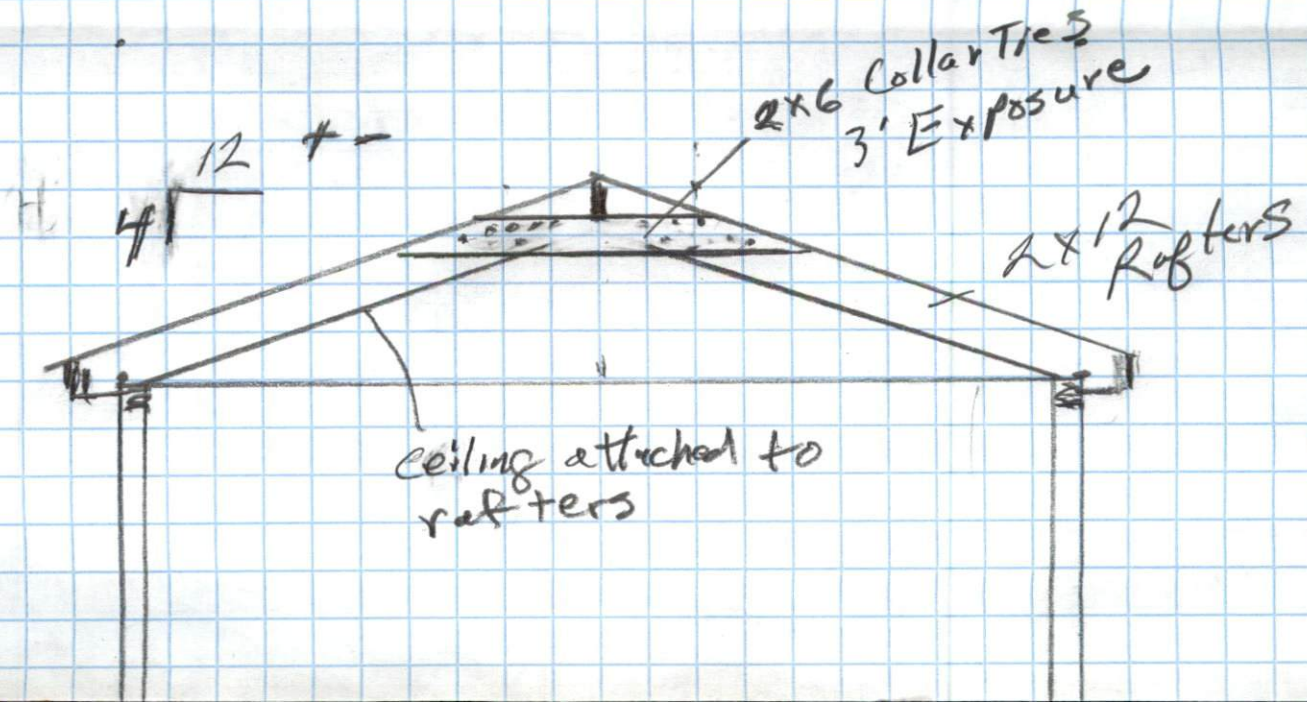
268 Robeson St,
Spring Lake, N.C.

Floor Joist - 2x8 - Southern Yellow Pine
16" on Center
Freated mudsill - Min. 2x4

Rafters - 2x12 Southern Yellow Pine
24" on Center

2x6 - Collar tie / Wind beams
4' long

No Ceiling Joist / Slightly Vaulted Ceiling



Blaylock
268 Robeson St.
Sp. Lake, NC

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: 2001074-2001074A
Doug Blaylock 20x20

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by 84 Components - #2383.

Pages or sheets covered by this seal: I43946809 thru I43946809

My license renewal date for the state of North Carolina is December 31, 2020.

North Carolina COA: C-0844



December 10, 2020

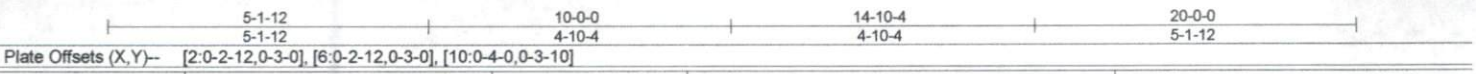
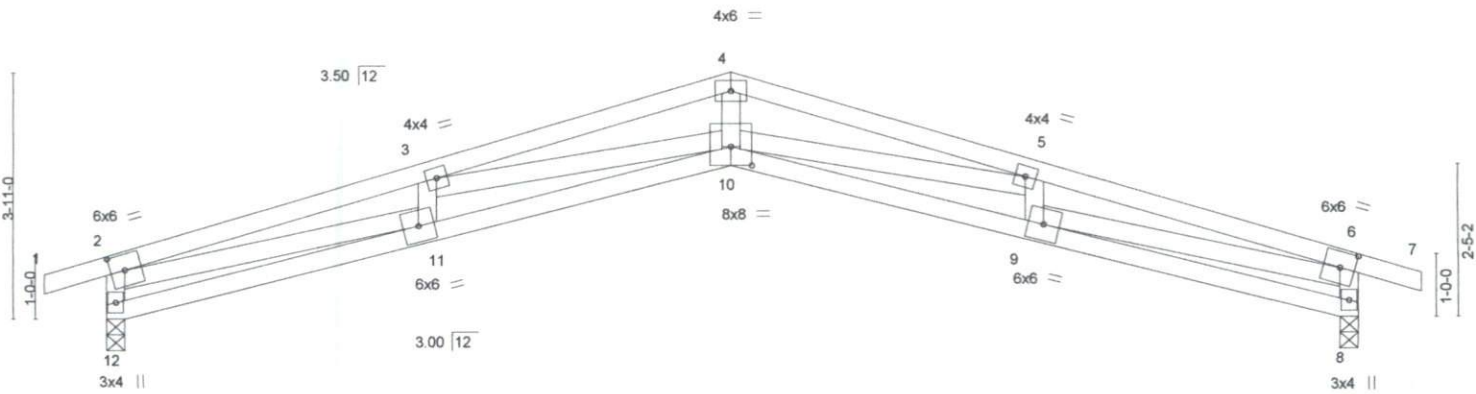
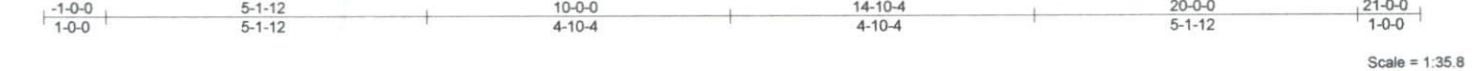
Sevier, Scott

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.

Blaylock-263-0486 268 Robeson St. SP. Lake

Job 2001074-2001074A	Truss S20	Truss Type SCISSORS	Qty 11	Ply 1	Doug Blaylock 20x20	I43946809
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84 Components (Dunn), Dunn, NC - 28334, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Dec 10 08:21:05 2020 Page 1
 ID:BLMYPJr8nyrUNPysQzkskyAQgK-vpN2q7aluoas3H0xRf7TC8uETuK2Yk4fM?OsB4yAQYI



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.76	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.90	Vert(LL) -0.32 10 >735 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.67	Vert(CT) -0.65 10 >366 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.38 8 n/a n/a		
	Code IRC2015/TPI2014			Weight: 99 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 WEBS 2x4 SP No.3 *Except*
 2-11,6-9: 2x4 SP No.2 or 2x4 SPF No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 7-3-5 oc bracing.

REACTIONS. (size) 12=0-3-8, 8=0-3-8
 Max Horz 12=-29(LC 17)
 Max Uplift 12=-155(LC 8), 8=-155(LC 9)
 Max Grav 12=857(LC 1), 8=857(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3125/716, 3-4=-3458/738, 4-5=-3458/738, 5-6=-3125/700, 2-12=-856/276, 6-8=-856/284
 BOT CHORD 11-12=-98/318, 10-11=-646/3006, 9-10=-630/3006, 8-9=-66/318
 WEBS 4-10=-264/1610, 5-10=-97/552, 5-9=-337/162, 3-10=-72/552, 3-11=-337/160, 2-11=-550/2658, 6-9=-565/2658

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Bearing at joint(s) 12, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12 and 8. This connection is for uplift only and does not consider lateral forces.



December 10, 2020

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 ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932