

Trenco 818 Soundside Rd Edenton, NC 27932

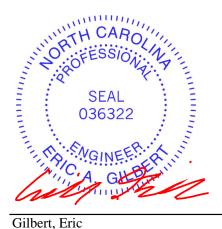
Re: 2502235-24938 999 Serenity

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by 84 Lumber 2383 (Dunn, NC).

Pages or sheets covered by this seal: I75036235 thru I75036235

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

North Carolina COA: C-0844



July 21,2025

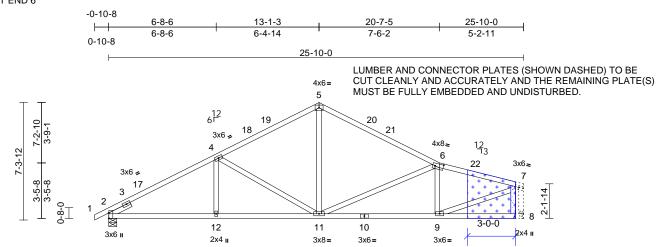
**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), 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	999 Serenity				
2502235-24938	G02	Roof Special	5	1	Job Reference (optional)	175036235			

84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334.

Run: 8.83 S. Jun 11 2025 Print: 8.830 S. Jun 11 2025 MiTek Industries, Inc. Mon. Jul 21 06:41:04 ID:um7T0hgX4QIUzLHN?cI\_EJzM8t?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

**REPAIR: STUB RIGHT END 6"** 





ATTACH 1/2" PLYWOOD OR OSB GUSSET (15/32" RATED SHEATHING 32/16 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.

INSTALL 2 X 4 SP NO.2 CUT TO FIT TIGHT.

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GUSSET MAY BE TRIMMED

TIGHT TO SINGLE PLY HANGER	6-8-6	13-1-3	20-5-9	25-10-0	
Scale = 1:71.7	6-8-6	6-4-14	7-4-6	5-4-7	

Plate Offsets (X, Y):	[2:0-4-1,Edge], [6:0-6-4,0-2-0]

Plate Offsets (X, Y):	[2:0-4-1,Edge],	[6:0-6-4,0-2-0]											
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL LUMBER TOP CHORD 2x4	(psf) 20.0 11.5/15.0 7.0 0.0* 10.0	Plate Grip DOL Lumber DOL Rep Stress Incr	-		CSI TC BC WB Matrix-MS 7-16; Pr=20.0 psf 15); Pg=15.0 psf;				(loc) 9-11 9-11 8	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 136 lb	<b>GRIP</b> 244/190 FT = 20%
BOT CHORD 2x4 SP No.2   WEBS 2x4 SP No.2   SLIDER Left 2x4 SP No.2 1-6-0   BRACING TOP CHORD   TOP CHORD Structural wood sheathing directly applied, except end verticals.   BOT CHORD Rigid ceiling directly applied or 8-10-3 oc bracing.   REACTIONS (size) 2=0-6-0, 8= Mechanical Max Horiz 2=119 (LC 20) Max Uplift 2=-243 (LC 16), 8=-222 (LC 17) Max Grav 2=998 (LC 2), 8=950 (LC 2)   FORCES (lb) - Maximum Compression/Maximum Tension   TOP CHORD 1-2=0/21, 2-4=-1537/469, 4-5=-1103/398, 5-6=-1114/380, 6-7=-1370/428, 7-8=-903/300   BOT CHORD 2-12=-446/1316, 11-12=-446/1316, 9-11=-408/1286, 8-9=-38/53			, 5) 6) 7)	1.15 Plate D Exp.; Ce=1.0 Unbalanced design. This truss ha load of 12.0 J overhangs no Building Des verifying Raii requirements This truss ha chord live loa	DL = 1.15); Is=1.0; ; Cs=1.00; Ct=1.10; snow loads have b s been designed for sof or 1.00 times fla on-concurrent with gner/Project engin h Load = 5.0 (psf) of specific to the use s been designed for d nonconcurrent v	; Rough 0 opeen cor or greate at roof le other lim heer res covers r e of this or a 10.0 with any	Cat B; Partia sidered for t er of min roo vad of 11.5 p re loads. vonsible for ain loading truss compo 0 psf bottom other live loa	ally this f live osf on onent. ads.					
			300 9)	on the botton 3-06-00 tall b chord and an Refer to girde Provide med	as been designed in chord in all areas y 2-00-00 wide wil y other members. er(s) for truss to tru- nanical connection capable of withsta	s where Il fit betv uss conr n (by oth	a rectangle veen the bott nections. ers) of truss	tom		L	I. I.	OR FESS	ROLIN
WEBS 4-12 6-11 NOTES 1) Unbalanced roo this design. 2) Wind: ASCE 7-1 Vasd=103mph; II; Exp B; Enclos and C-C Exterio to 13-1-3, Exteri 16-1-3 to 25-8-4 end vertical left	2=0/232, 4-11=-5 1=-441/196, 6-9= of live loads have 16; Vult=130mph TCDL=4.2psf; Bi sed; MWFRS (er or(2E) -0-10-8 to : ior(2R) 13-1-3 to 4 zone; cantilever and right expose S for reactions s	500/242, 5-11=-131/57 -329/183, 7-9=-402/13 been considered for (3-second gust) CDL=3.0psf; h=25ft; C velope) exterior zone 2-1-8, Interior (1) 2-1-6 16-1-3, Interior (1) 16ft and right exposed cd;C-C for members ar	338 11) LO Cat. 8	2 and 222 lb This truss is International	uplift at joint 8. designed in accord Residential Code s nd referenced stan	dance w sections	th the 2018 R502.11.1 a				A A A A A A A A A A A A A A A A A A A	SEA 0363	EER. HILL

OL=1.6U plate grip DOL=1.6U 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 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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and PC18 Building Component Science Marchine and the fore the Structure Building Component Advance interpreted to the prevent collapse with possible fore the Structure Building Component Advance interpreted to the prevent on the systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and PC18 Building Criteria Advance and truss and truss systems, see ANSI/TP11 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)

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