

Trenco 818 Soundside Rd Edenton, NC 27932

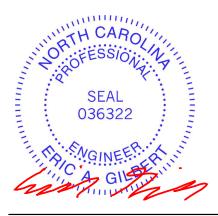
Re: 24070136-B 427 Lexington Plantation-2nd Floor-Lincoln C 3CG 10x12-CRP GLH

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: I68502791 thru I68502792

My license renewal date for the state of North Carolina is December 31, 2024.

North Carolina COA: C-0844



September 27,2024

## Gilbert, Eric

**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.

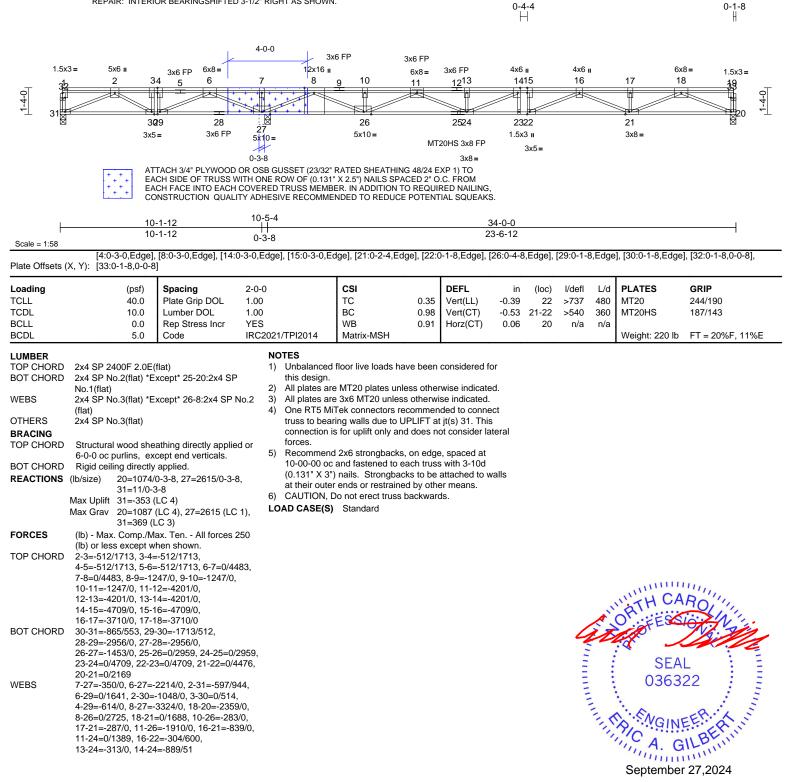
Job	Truss	Truss Type	Qty	Ply	427 Lexington Plantation-2nd Floor-Lincoln C 3CG
24070136-B	F1A	Floor	7	1	l68502791 Job Reference (optional)

Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.73 E May 9 2024 Print: 8.730 E May 9 2024 MiTek Industries, Inc. Fri Sep 27 15:07:45 ID:yvkop6v?yOfGgKfYAwsZjjyel51-bpGkMW9oAH8ml8bb2cJ16LmGHn3ZUdCQhIUfOmyZPU\_ Page: 1

0-2-0 2-6-0 Н 0-1-8 1-10-4

REPAIR: INTERIOR BEARINGSHIFTED 3-1/2" RIGHT AS SHOWN.





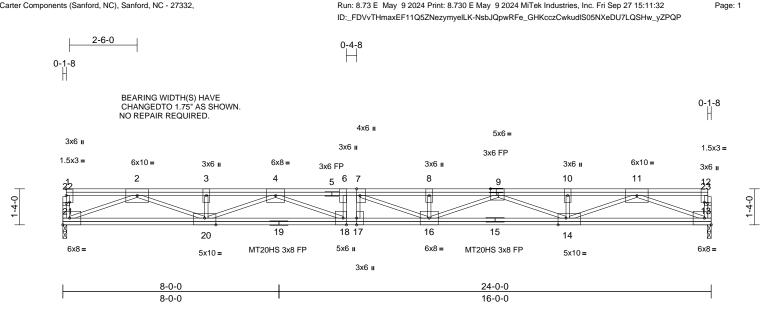
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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)

818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	427 Lexington Plantation-2nd Floor-Lincoln C 3CG			
24070136-B	F2	Floor	3	1	I68502792 Job Reference (optional)			

Run: 8.73 E May 9 2024 Print: 8.730 E May 9 2024 MiTek Industries, Inc. Fri Sep 27 15:11:32

Carter Components (Sanford, NC), Sanford, NC - 27332,



Scale = 1:42.6

Plate Offecte (X V)	[7.0.3.0 Edge] [1/1.0.3.8 E	daal [17:0.3.0 Edaal [18:0.3.0 Edaa	], [20:0-5-0,Edge], [22:0-1-8,0-0-8], [23:0-1-8,0-0-8]	
	[1.0-5-0,Luge], [14.0-5-0,L	ugel, 117.0-2-0, Lugel, 110.0-2-0, Luge	, 20.0-3-0, Lugel, 22.0-1-0, 0-0-0, 23.0-1-0, 0-0-0	

									1	
Loading (psf) Spacing 2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0 Plate Grip DOL 1.00		TC	0.18	Vert(LL)	-0.39	16-17	>730	480	MT20	244/190
TCDL 10.0 Lumber DOL 1.00		BC	0.38	Vert(CT)	-0.53	16-17	>532	360	MT20HS	187/143
BCLL 0.0 Rep Stress Incr YES		WB	0.81	Horz(CT)	0.06	13	n/a	n/a	101120110	101/140
	021/TPI2014	Matrix-MSH	0.01	11012(01)	0.00	15	Π/a	Π/a	Weight: 188 lb	FT = 20%F, 11%E
LUMBER										
TOP CHORD 2x4 SP 2400F 2.0E(flat)										
BOT CHORD 2x4 SP 2400F 2.0E(flat)										
WEBS 2x4 SP No.3(flat) *Except* 14-11,20-2:2x4 SP										
No.2(flat)										
OTHERS 2x4 SP No.3(flat)										
BRACING	RACING									
TOP CHORD Structural wood sheathing directly applied or										
6-0-0 oc purlins, except end verticals.										
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc										
bracing.										
REACTIONS (lb/size) 13=1299/0-1-12, 21=1299/0-1-12										
FORCES (Ib) - Max. Comp./Max. Ten All forces 250										
(lb) or less except when shown.										
TOP CHORD 2-3=-4816/0, 3-4=-4816/0, 4-5=-6950/0,										
5-6=-6950/0, 6-7=-6950/0, 7-8=-6942/0,										
	8-9=-6942/0, 9-10=-4819/0, 10-11=-4819/0									
BOT CHORD 20-21=0/2742, 19-20=0/6187, 18-19=0/6187,										
	17-18=0/6950, 16-17=0/6950, 15-16=0/6183,									
WEBS 11-13=-2978/0, 2-21=-2977/0, 11-14=0/2254,	14-15=0/6183, 13-14=0/2743									
2-20=0/2252, 9-14=-1481/0, 4-20=-1488/0,										
9-16=0/825, 4-18=0/1085, 8-16=-287/0,									minin	1111
7-16=-575/523									IN'TH CA	ROUL
NOTES									OR EESE	Chille .
<ol> <li>Unbalanced floor live loads have been considered for</li> </ol>								1.	O'.FESS	Dia Vil
this design.							6	25	IP /	City .
<ol> <li>All plates are MT20 plates unless otherwise indicated.</li> </ol>									.0	- 7: -
<ol> <li>All plates are 3x6 MT20 unless otherwise indicated.</li> </ol>									CEA	r 1 E
<ul> <li>All plates are 3x6 M120 unless otherwise indicated.</li> <li>Provide mechanical connection (by others) of truss to</li> </ul>							• –			
bearing plate at joint(s) 21, 13.						22 : =				
5) Recommend 2x6 strongbacks, on edge, spaced at										

10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



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