

RE: 4152052 - WEAVER HOMES-THE LAUREN III-WEST PRESERVE

Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:Project Customer: WEAVER HOMESProject Name:Lot/Block: 17Subdivision: WEST PRESERVEAddress: 272 THISTLE COURTState: NC

 Name Address and License # of Structural Engineer of Record, If there is one, for the building.

 Name:
 License #:

 Address:
 Engineer of Record, If there is one, for the building.

 City, County:
 State:

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

Design Code: IRC2015/TPI2014 Wind Code: ASCE 7-10 [Low Rise]II Wind Speed: 120 mph Roof Load: 40.0 psf Design Program: MiTek 20/20 8.6 Design Method: MWFRS (Envelope) ASCE 7-10 [Low Rise]

Floor Load: N/A psf

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

No.	Seal#	Job ID#	Truss Name	Date
1	T34949508	4152052	T01A	9/9/24

The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by BMC (Monroe, NC).

Truss Design Engineer's Name: Velez, Joaquin My license renewal date for the state of North Carolina is December 31, 2024

**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.



Velez, Joaquin

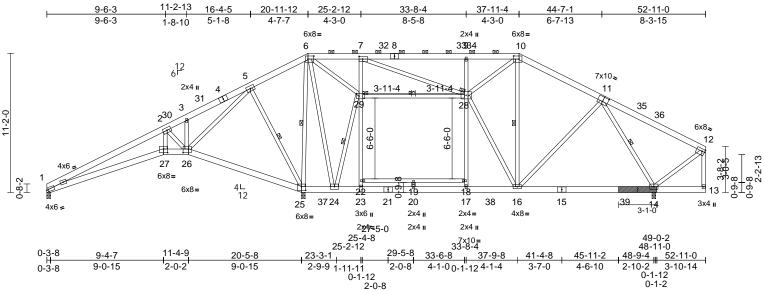
September 9,2024

Job	Truss	Truss Type	Qty	Ply	WEAVER HOMES-THE LAUREN III-WEST PRESERVE
4152052	T01A	Piggyback Base	3	1	T34949508 Job Reference (optional)

Builders FirstSource (Monroe, NC), Monroe, NC - 28110,

Run: 8,63 S Jul 12 2024 Print: 8,630 S Jul 12 2024 MiTek Industries, Inc. Mon Sep 09 08:44:48 ID:jAOkQUY0S6Z0w0G?PcXWu4yqbww-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:92.6

REPAIR(S) REQUIRED [1:0-1-9,0-1-12], [6:0-5-8,0-3-0], [7:0-3-8,0-2-8], [10:0-5-4,0-3-0], [11:0-5-0,0-4-8], [12:Edge,0-2-4], [23:0-4-8,0-1-8], [25:0-4-0,0-3-8], [26:0-5-4,0-3-8], [27:0-4-0,0-3-Plate Offsets (X, Y): [29:0-2-8,0-2-8]

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 16.5/15.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2015	5/TPI2014	<b>CSI</b> TC BC WB Matrix-S	0.94 0.80 0.99	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.16 -0.30 0.10 0.07	(loc) 18-19 18-19 14 1-27	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 490 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x6 SP No.2 2x6 SP No.2 *Excep 2x4 SP No.2 Structural wood she	I t* 22-18:2x4 SP No.: athing directly applie cept end verticals, ar	2 d or		2-27=-15/508, 2-2 3-26=-70/106, 6-2 16-28=-129/899, 22-29=0/1023, 7- 17-18=0/423, 18- 11-16=0/651, 11- 5-25=-702/296, 5	25=-1964 10-16=-7 29=-1287 28=0/548 14=-1927	/75, 6-24=0/1 72/0, 22-23=0 7/102, 6, 9-28=-968/0 7/0, 12-14=-50	0/898, D,	cho 11) * Th on t 3-0 cho	rd live k nis truss the botto 6-00 tall rd and a	bad nor has be om cho by 1-0 any oth	en designed for a nconcurrent with een designed for rd in all areas wh 0-00 wide will fit er members, with	10.0 psf bottom any other live loads. a live load of 20.0ps	
BOT CHORD	2-0-0 oc purlins (4-5	i-10 max.): 6-10. applied or 10-0-0 oc		OTES (16)	28-29=-493/0, 7-2 6-29=-139/185, 2	4-29=-22	23/0, 19-20=	-258/0	usir des 13) Pro	ng ANSI igner sh vide me	/TPI 1 a ould ve chanic	angle to grain for erify capacity of b al connection (by	mula. Building	
WEBS JOINTS	1 Row at midpt	6-25, 10-16, 11-14, 28-29, 24-29		<ol> <li>Repair Condition: bottom chord has 0-1-0 long break centered at 5-5-6 to the left of joint 13.</li> <li>Apply 37" long 2x6 SP No.2 scab to front side(s) of truss centered on damage located 5-5-6 to the left of joint 13 with 3 row(s) of 10d (0.131"x3") nails spaced 2" o.c.</li> </ol>				truss 13	<ol> <li>1 and 298 lb uplift at joint 25.</li> <li>14) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.</li> </ol>					
		C 13), 25=-298 (LC 12 C 2), 14=2272 (LC 52		from front fa na Unbalanced this design.	ice. Minimum 0-3-	0 end dis	tance. considered fo		or t	he orien	tation of	, of the purlin along	es not depict the size g the top and/or	
FORCES	(lb) - Maximum Com Tension 1-2=-1283/20, 2-3=- 5-6=-263/685, 6-7=-	pression/Maximum 573/13, 3-5=-513/29 453/380, 7-9=-2325/	D,	<ul> <li>Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60</li> </ul>					NIN OF OF TONSE					
BOT CHORD	,	-27=-190/1019, -25=-504/372, =0/864, 17-20=0/864 =0/686, 13-14=0/64,	6)	5) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=16.5 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10, Lu=50-0-0				bottom chord.						

- 7) Unbalanced snow loads have been considered for this desian.
- 8) Provide adequate drainage to prevent water ponding.
- All plates are 5x8 MT20 unless otherwise indicated. 9)

Continued on page 2 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 MTek connectors. This design is based only upon parameters and property incorporate this design is based only upon parameters and property incorporate this design into the overall building designer must verify the applicability of design parameters and property 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 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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September 9,2024

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16) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

- Vert: 1-6=-43, 6-10=-53, 10-35=-43, 12-35=-123,
- 1-27=-20, 26-27=-20, 25-26=-20, 13-25=-20,
- 18-22=-20
- Concentrated Loads (lb) Vert: 34=-480

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