Lumber design values are in accordance with ANSI/TPI 1 section 6.3
These truss designs rely on lumber values established by others.

#41917

RE: 2700495 - LIPSCOMB EAGLE - LOT 20 TC

MiTek USA, Inc.
6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:
Customer Info: Lipscomb Eagle Project Name: Spec Hse Model: Custom
Lot/Block: 20 Subdivision: Turkey Creek
Address: N/A, N/A
City: Columbia Cty State: FL

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

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):
Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.4
Wind Code: ASCE 7-16 Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 1 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date
1	T25385748	T10	9/20/21

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Lake City, FL.

Truss Design Engineer's Name: ORegan, Philip
My license renewal date for the state of Florida is February 28, 2023.

Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: September 20,2021

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.

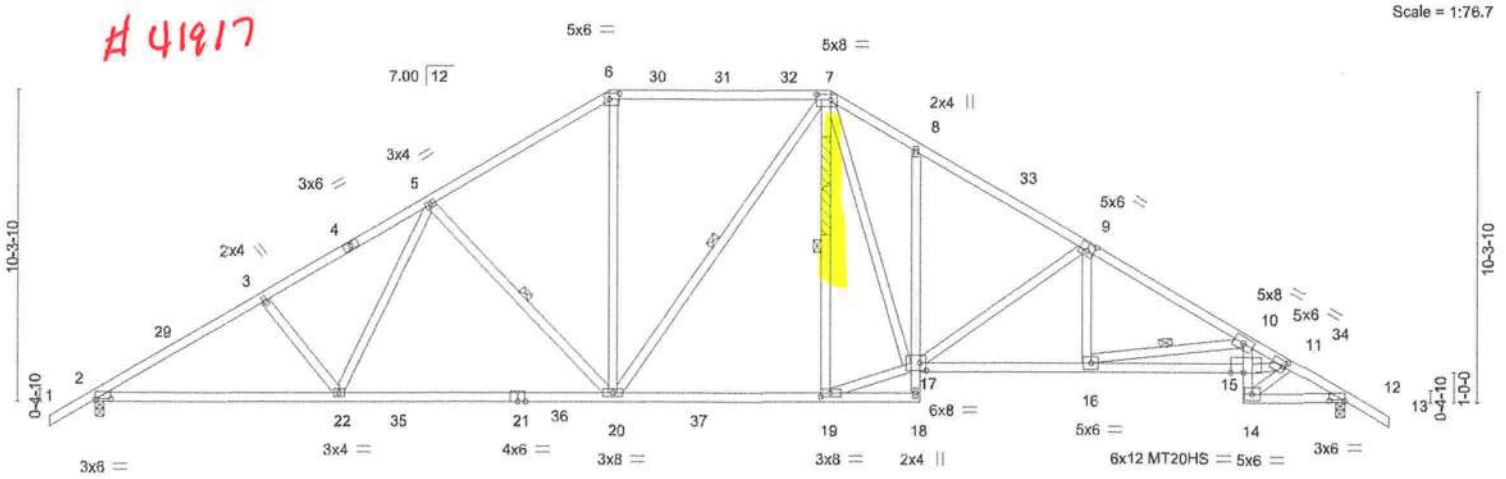
Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - LOT 20 TC	T25385748
2700495	T10	HIP	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL). Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Sep 17 13:37:02 2021 Page 1
ID:Yt38mLGSMJvDJViAD77MsMycpJb-IJ4tsef7yaIgR6m?ierQwTI4w0tszrTCr53u6jycisl

-1-6-0 | 1-6-0 | 5-7-5 | 5-7-5 | 11-1-0 | 5-5-11 | 17-0-0 | 5-11-0 | 24-4-0 | 7-4-0 | 27-4-0 | 3-0-0 | 32-10-0 | 5-6-0 | 38-0-8 | 5-2-8 | 39-5-12 | 1-5-4 | 41-4-0 | 1-10-4 | 42-10-0 | 1-6-0

Scale = 1:76.7

#41917



8-0-11 | 8-0-11 | 17-0-0 | 8-11-5 | 24-4-0 | 7-4-0 | 27-4-0 | 3-0-0 | 32-10-0 | 5-6-0 | 38-0-8 | 5-2-8 | 41-4-0 | 3-3-8

REPAIR(S) REQUIRED

Plate Offsets (X,Y)-- [2:0-6-0,0-0-3], [6:0-4-0,0-2-4], [7:0-5-8,0-2-0], [9:0-3-0,0-3-0], [11:0-1-4,0-2-4], [12:0-6-0,0-0-3], [15:0-5-0,0-0-0], [17:0-2-8,0-3-0], [19:0-3-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.88	Vert(LL)	-0.32	20-22	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.62	Vert(CT)	-0.55	20-22	>900	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.26	12	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 276 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP M 31 *Except*
8-18: 2x4 SP No.3, 12-14: 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
11-15: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
8-8-12 oc bracing: 15-16
9-9-9 oc bracing: 12-14.
WEBS 1 Row at midpt 5-20, 7-20, 7-19, 10-16

REACTIONS. (size) 2=0-3-8, 12=0-3-8
Max Horz 2=-231(LC 10)
Max Uplift 2=-331(LC 12), 12=-331(LC 13)
Max Grav 2=1788(LC 19), 12=1769(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2934/515, 3-5=-2795/518, 5-6=-2089/415, 6-7=-1754/402, 7-8=-2525/548, 8-9=-2585/463, 9-10=-3388/568, 10-11=-5318/876, 11-12=-2907/505
BOT CHORD 2-22=-511/2629, 20-22=-371/2211, 19-20=-145/1737, 16-17=-349/2913, 15-16=-803/5139, 14-15=-197/1444, 10-15=-143/1255, 12-14=-366/2410
WEBS 3-22=-262/166, 5-22=-89/613, 5-20=-671/252, 6-20=-101/758, 7-19=-382/73, 17-19=-131/1762, 7-17=-297/1448, 9-17=-979/252, 9-16=-47/659, 10-16=-2334/462, 11-15=-592/3977, 11-14=-2262/333

NOTES-
1) Repair Condition: web has 0-3-0 long break centered at 2-10-5 below joint 7.
2) Apply 39" long 2x4 SP No.2 scab to front side(s) of truss centered on damage located 2-10-5 below joint 7 with 2 row(s) of 10d (0.131"x3") nails spaced 2" o.c. from front face. Minimum 0-3-0 end distance.
3) N/A
4) Unbalanced roof live loads have been considered for this design.
5) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-7-10, Interior(1) 2-7-10 to 17-0-0, Exterior(2R) 17-0-0 to 22-10-2, Interior(1) 22-10-2 to 24-4-0, Exterior(2R) 24-4-0 to 30-2-2, Interior(1) 30-2-2 to 42-10-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
6) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
7) Provide adequate drainage to prevent water ponding.
8) All plates are MT20 plates unless otherwise indicated.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * 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, with BCDL = 10.0psf.

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