

Trenco  
818 Soundside Rd  
Edenton, NC 27932

Re: J0225-0934  
Weaver/Lot 54 West Preserve/Harnett

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: I74468594 thru I74468594

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

North Carolina COA: C-0844



June 26, 2025

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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	Weaver/Lot 54 West Preserve/Harnett	174468594
J0225-0934	A4GE	GABLE	1	1	Job Reference (optional)	

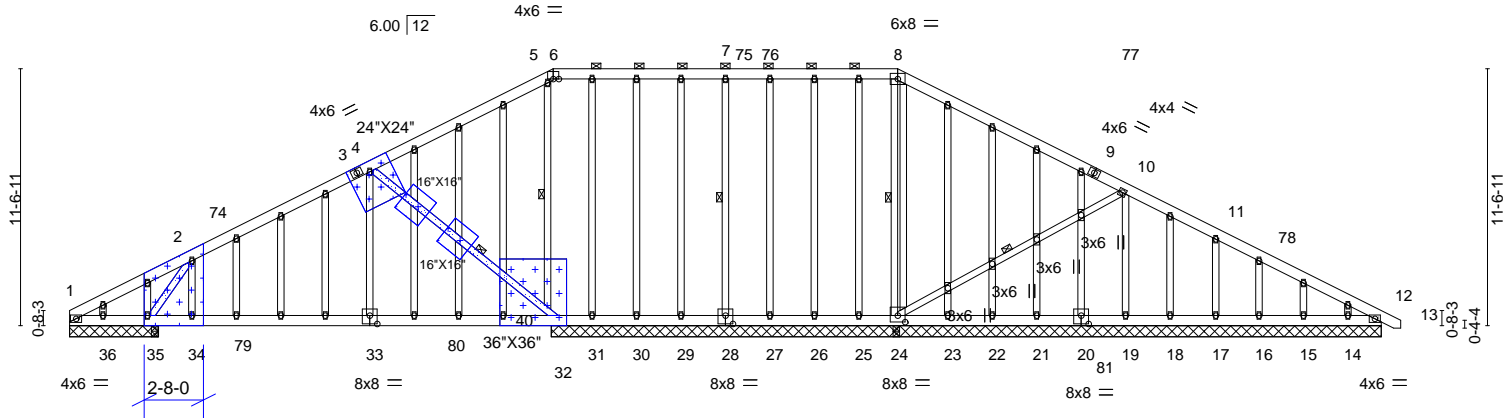
Comtech, Inc., Fayetteville, NC 28309

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21-9-0	21-9-0	29-6-0	37-3-0	47-6-0	59-0-0	59-10-8
21-9-0	7-9-0	7-9-0	7-9-0	10-3-0	11-6-0	0-10-8

REPAIR: TRUSS INSTALLED BACKWARDS

Scale = 1:103.6



ATTACH 1/2" PLYWOOD OR OSB GUSSET (15/32" RATED SHEATHING 32/16 EXP 1) TO ONE FACE OF TRUSS WITH (0.113" X 2") 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 @ 2" O.C. INTO EACH COVERED TRUSS MEMBER. USE 2" MEMBER END DISTANCE.

3-8-2	21-9-0	29-6-0	37-3-0	37-4-0	47-6-0	59-0-0
3-8-2	18-0-14	7-9-0	7-9-0	0-1-0	10-2-0	11-6-0
Plate Offsets (X,Y)--	[20:0-4-0,0-4-8], [24:0-4-0,0-3-8], [28:0-4-0,0-4-8], [33:0-4-0,0-4-8]					

LOADING (psf)	SPACING-	CS.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.39	Vert(LL)	-0.06	33-34	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.30	Vert(CT)	-0.08	33-34	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.84	Horz(CT)	-0.01	1	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.02	33-34	>999		
	Code IRC2015/TPI2014						Weight: 633 lb	FT = 20%

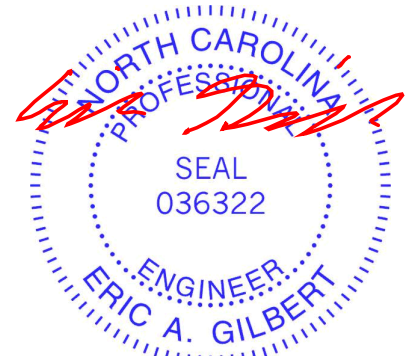
LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-8.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except*	WEBS 1 Row at midpt 8-24, 10-24, 7-28, 5-40, 4-32
OTHERS 2-35: 2x4 SP No.3	
2x4 SP No.2	

**REACTIONS.** All bearings 37-4-0 except (jt=length) 1=4-0-0, 35=4-0-0, 35=4-0-0, 36=4-0-0.  
(lb) - Max Horz 32=-231(LC 13)  
Max Uplift All uplift 100 lb or less at joint(s) 1, 22, 15, 12 except 24=-242(LC 13), 19=-199(LC 13), 17=-158(LC 13), 28=-286(LC 9), 31=-138(LC 3), 35=-373(LC 12), 14=-179(LC 13), 32=-197(LC 12)  
Max Grav All reactions 250 lb or less at joint(s) 1, 29, 30, 36, 27, 26, 25, 23, 22, 21, 18, 16, 15, 12 except 24=476(LC 24), 24=462(LC 1), 19=643(LC 2), 17=294(LC 26), 28=576(LC 25), 35=888(LC 2), 35=819(LC 1), 14=286(LC 24), 32=1174(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-371/78, 2-74=-955/253, 3-74=-946/293, 3-4=-776/296, 4-5=-290/303, 5-6=-245/347, 6-75=-164/326, 7-75=-164/326, 7-76=-164/325, 8-76=-164/325, 8-77=-178/285, 9-77=-289/237, 9-10=-326/235, 12-78=-295/65  
BOT CHORD 1-36=-39/313, 35-36=-39/313, 34-35=-71/779, 34-79=-71/779, 33-79=-71/779, 33-80=-71/779, 32-80=-71/779, 31-32=-88/289, 30-31=-88/289, 29-30=-88/289, 28-29=-88/289, 27-28=-88/289, 26-27=-88/289, 25-26=-88/289, 24-25=-88/289  
WEBS 8-24=-429/194, 10-19=-535/300, 7-28=-533/311, 5-40=-358/150, 4-33=0/595, 2-34=0/353, 4-40=-909/312, 32-40=-1121/385, 2-35=-1091/353

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 5-10-13, Interior(1) 5-10-13 to 21-9-0, Exterior(2) 21-9-0 to 30-1-3, Interior(1) 30-1-3 to 37-3-0, Exterior(2) 37-3-0 to 45-7-2, Interior(1) 45-7-2 to 59-8-10 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - Provide adequate drainage to prevent water ponding.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - N/A
  - Gable studs spaced at 2-0-0 oc.
  - 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 30.0psf 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.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 22, 15, 12 except (jt=lb) 24=-242, 19=-199, 17=-158, 28=-286, 31=-138, 35=-373, 14=-179, 32=-197.

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J0225-0934	A4GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309

ID:Jh9ByfjRPPU?mMRDxzGWXKyZ53p-hFUoDK16gwZP0?t0KwkJtFGqS6SIICKFursxDyz2Qsp

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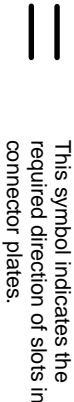
- NOTES-**
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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# Symbols

## PLATE LOCATION AND ORIENTATION



\* Plate location details available in MITek software or upon request.

## PLATE SIZE

**4 X 4**

The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

## BEARING



Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

## Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-22: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

# Numbering System

