

ADDRESS : 126 FAIRFAX DR  
 CONTRACTOR : WEAVER DEVELOPMENT CO INC  
 OWNER : MITZI GIZMO HERCULES & ASSOC  
 PARCEL : 03-9588- - -0003- -10-  
 APPL NUMBER: 14-50035096 CP NEW RESIDENTIAL (SFD)

SUBDIV: PITTMAN CROSSING PH 1 11LOTS  
 PHONE : (910) 433-0888  
 PHONE :

DIRECTIONS : T/S: 12/08/2014 09:59 AM JBROCK ----  
 PITTMAN CROSSINGS #30

**STRUCTURE: 000 000 40X51 3BDR SLAB W/ GARAGE**

FLOOD ZONE : FLOOD ZONE X  
 # BEDROOMS : 3000000.00  
 SEPTIC - EXISTING? : NEW TANK  
 PROPOSED USE : SFD  
 WATER SUPPLY : COUNTY

**PERMIT: CPSF 00 CP \* SFD**

TYP/SQ	REQUESTED COMPLETED	INSP RESULT	DESCRIPTION RESULTS/COMMENTS
B101 01	12/29/14	JH	R*BLDG FOOTING / TEMP SVC POLE TIME: 17:00 VRU #: 002612414
	12/29/14	CA	PER DUSTIN
B101 02	12/30/14	JH	R*BLDG FOOTING / TEMP SVC POLE VRU #: 002612695
	12/30/14	AP	T-POLE PASSED
A814 01	1/05/15	SB	ADDRESS CONFIRMATION TIME: 17:00 VRU #: 002614105
	1/06/15	AP	T/S: 01/06/2015 09:06 AM SBENNETT 126 FAIRFAX DR SANFORD 27332 POST # ON HOME
B103 01	1/06/15	MR	T/S: 01/06/2015 09:07 AM SBENNETT R*BLDG FOUND & TEMP SVC POLE VRU #: 002614097
	1/06/15	CA	T/S: 01/06/2015 12:18 PM MREARIC per dustin
B103 02	1/07/15	TSG	R*BLDG FOUND & TEMP SVC POLE VRU #: 002614634
	1/07/15	AP	
P309 01	1/09/15	TSG	R*PLUMB UNDER SLAB TIME: 17:00 VRU #: 002615490
	1/09/15	AP	
B111 01	1/12/15	MR	R*BLDG SLAB INSP/TEMP SVC POLE VRU #: 002615755
	1/12/15	AP	T/S: 01/12/2015 01:45 PM MREARIC
R425 01	2/04/15	MR	FOUR TRADE ROUGH IN VRU #: 002624005
	2/04/15	DA	T/S: 02/04/2015 03:03 PM MREARIC nail lvl over nook /air barrier under stairs / fasten all air barriers / access at air handler too small / ok to side and ins.
I129 01	2/06/15	TI	R*INSULATION INSPECTION VRU #: 002624997
		AP	
R425 02	2/06/15	TI	FOUR TRADE ROUGH IN TIME: 17:00 VRU #: 002625242
		AP	T/S: 02/05/2015 02:44 PM DJOHNSON

COMMENTS AND NOTES

**Trenco**

818 Soundside Rd  
Edenton, NC 27932

Re: J1214-6237  
Weaver/Lot 30 Pittman Crossing/Harnett

*Inspector*

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: E8599771 thru E8599771

My license renewal date for the state of North Carolina is December 31, 2015.

North Carolina COA: C-0844

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



February 5, 2015

Gilbert, Eric

The seal on these drawings indicate acceptance of professional engineering responsibility solely for the truss components shown. The suitability and use of this component for any particular building is the responsibility of the building designer, per ANSI/TPI-1 Chapter 2.  
Engineering services provided by Truss Engineering Company.

Job J1214-6237	Truss A2X	Truss Type ROOF SPECIAL	Qty 4	Ply 1	Weaver/Lot 30 Pitman Crossing/Harnett	E8599771
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Comtech, Inc., Fayetteville, NC 28309

Job Reference (optional)

7.430 s Jul 25 2013 MiTek Industries, Inc. Thu Feb 05 07:51:07 2015 Page 1

0-11-0 7-3-3 14-3-6 16-7-8 22-7-8  
0-11-0 7-3-3 7-0-3 2-4-2 6-0-0

5x5 ||

Scale = 1:85.0

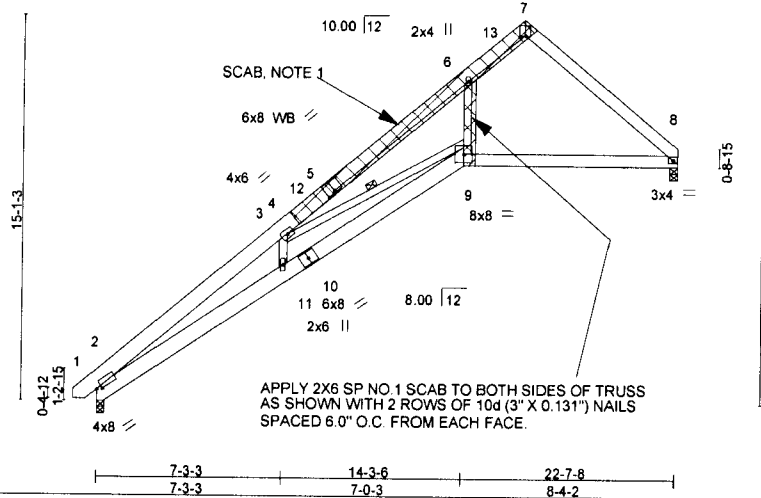


Plate Offsets (X,Y): [2,0-2-6,0-1-3], [5,0-3-15,0,0-15], [7,0-0-7,0-2-8]

<b>LOADING (psf)</b>	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.55	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plates Increase 1.15	BC 0.42	Vert(LL) -0.18 9-11 >999 360		
BCLL 0.0 *	Lumber Increase 1.15	WB 0.61	Vert(TL) -0.47 9-11 >573 240		
BCDL 10.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.33 8 n/a n/a		
	Code IRC2009/TPI2007		Wind(LL) 0.24 9-11 >999 240	Weight: 264 lb	FT = 20%

**LUMBER**

TOP CHORD 2x6 SP No.1 \*Except\*  
1-5: 2x8 SP No.1  
BOT CHORD 2x8 SP No.1 \*Except\*  
8-9: 2x6 SP No.1  
WEBS 2x4 SP No.3  
OTHERS 2x6 SP No.1  
LBR SCAB 4-7 2x8 SP 2400F 2.0E both sides  
6-9 2x6 SP No.1 both sides

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 4-9-9 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 8-5-9 oc bracing.  
WEBS 1 Row at midpt 3-9

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS**

(lb/size) 8=892/0-3-8 (min. 0-1-8), 2=944/0-3-8 (min. 0-1-8)  
Max Horz 2=392(LC 5)  
Max Uplift 8=147(LC 6), 2=42(LC 6)

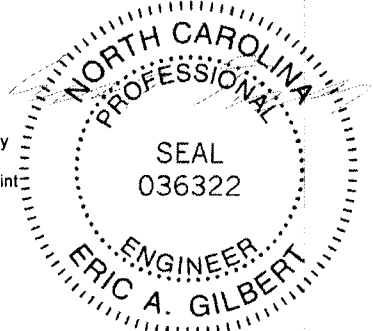
**FORCES**

(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/1, 2-3=-3211/974, 3-6=-1310/296, 6-7=-393/179, 7-8=-1094/335  
BOT CHORD 2-11=-1113/2750, 9-11=-1106/2736, 8-9=-148/780  
WEBS 3-11=0/320, 3-9=-1630/822, 6-9=-224/1032

**NOTES**

- Attached 12-0-0 scab 4 to 7, both face(s) 2x8 SP 2400F 2.0E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except : starting at 7-10-0 from end at joint 4, nail 2 row(s) at 7" o.c. for 3-10-6.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 100mph; TCCL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grp DOL=1.60
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 147 lb uplift at joint 8 and 42 lb uplift at joint 2.
- "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard



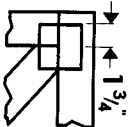
February 5, 2015

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIT-1473 Rev. 1/29/2014 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. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI Quality Criteria, D58-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 281 N. Lee Street, Suite 312, Alexandria, VA 22314.  
If Southern Pine (SP) lumber is specified, the design values are those effective 06/01/2013 by ALSC

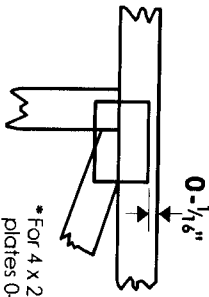
ENGINEERING BY  
**TRENCO**  
A MiTek Affiliate  
818 Soundside Road  
Edenton, NC 27932

# Symbols

## PLATE LOCATION AND ORIENTATION



Center plate on joint unless X, Y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



\*For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.



\*This symbol indicates the required direction of slots in connector plates.

\* Plate location details available in **MITek 20/20 software** or upon request.

## PLATE SIZE

4 X 4

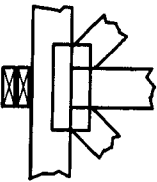
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## 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



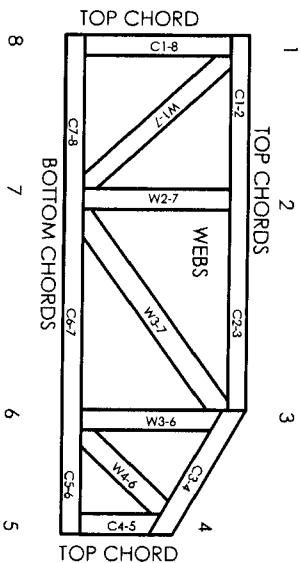
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

## Industry Standards:

ANSI/TP11: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-89: Design Standard for Wood Truss Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

# Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



**JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.**

**CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.**

## PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988  
ER-3907, ESR-2362, ESR-1397, ESR-3282

## Southern Pine Lumber designations are as follows:

SYP represents values as published by AWC in the 2005/2012 NDS  
SP represents AISC approved/new values with effective date of June 1, 2013

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# General Safety Notes

## Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T or I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and worn or joint locations are regulated by ANSI/TP 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP 1 Quality Criteria.



MITek Engineering Reference Sheet: MIL-7473 rev. 01/29/2013