

-----

ADDRESS . . : 530 OLD FIELD LOOP  
 CONTRACTOR : WM KENT PIERCE INC.  
 OWNER . . . : WM KENT PIERCE INC  
 PARCEL . . . : 03-9577- - -0028- -31-  
 APPL NUMBER: 09-50023491 CP NEW RESIDENTIAL (SFD)  
 DIRECTIONS : T/S: 12/29/2009 08:46 AM RDCONTE ---  
 PERSIMMON HILL #31  
 TAKE 27 T/R ON HANOVER RD. T/L ON TRAIL  
 RIDER LANE. T/L ON OLD FIELD LANE. LOT  
 IS ON THE RIGHT.  
 \*\*\*PWR CO: WAITING ON CUS\*\*\*

-----

STRUCTURE: 000 000 51X44 CRAWL 4BD/2.5BA W/GAR & DECK  
 FLOOD ZONE . . . . : FLOOD ZONE X  
 # BEDROOMS . . . . . : 4.00  
 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	1/27/10 <u>1/27/10</u>	TI <u>APDT</u>	R*BLDG FOOTING / TEMP SVC POLE VRU #: 001876303

----- COMMENTS AND NOTES -----

-----

ADDRESS : 530 OLD FIELD LOOP SUBDIV: PERSIMMON HILL 83LOTS  
 CONTRACTOR : WM KENT PIERCE INC. PHONE :  
 OWNER : WM KENT PIERCE INC PHONE : (910) 391-0194  
 PARCEL : 03-9577- - -0028- -31-  
 APPL NUMBER: 09-50023491 CP NEW RESIDENTIAL (SFD)  
 DIRECTIONS : T/S: 12/29/2009 08:46 AM RDCONTE ---  
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 SEPTIC - EXISTING? : NEW TANK WATER SUPPLY : COUNTY

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B101 01	1/27/10	DT	R*BLDG FOOTING / TEMP SVC POLE VRU #: 001876303
	1/27/10	AP	
B103 01	2/10/10 <u>2-10-10</u>	TI <i>AP</i>	R*BLDG FOUND & TEMP SVC POLE VRU #: 001881048

----- COMMENTS AND NOTES -----

*TS*

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	1/27/10	AP	
B103 01	2/10/10	FS	R*BLDG FOUND & TEMP SVC POLE VRU #: 001881048
	2/10/10	AP	T/S: 02/10/2010 02:07 PM FSPIVEY -----
A814 01	2/15/10	FB	ADDRESS CONFIRMATION VRU #: 001881057
	2/18/10	AP	T/S: 02/18/2010 02:40 PM FBURGESS -----
			530 OLD FIELD LOOP SANFORD, NC 27332 LOT 31
B105 01	3/12/10	TL	R*OPEN FLOOR VRU #: 001893482

*J.K.D. AP*

*FS*

COMMENTS AND NOTES

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B105 01	3/12/10	FS	R*OPEN FLOOR VRU #: 001893482
	3/12/10	AP	T/S: 03/12/2010 02:56 PM FSPIVEY -----
R425 01	4/14/10	TI	FOUR TRADE ROUGH IN VRU #: 001908528

*Handwritten initials: H-14-10 AP*

COMMENTS AND NOTES

*Large handwritten signature/initials: FS*



*Wm. Kent Pierce III  
Lot # 31 Persimmon Hill  
permit # 0950023491*

**Trenco**  
818 Soundside Rd  
Edenton, NC 27932

Re: 321740  
31 Persimmon Hill, Harnett Co., NC

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Builders FirstSource-Loris.

Pages or sheets covered by this seal: I16305437 thru I16305437

My license renewal date for the state of North Carolina is December 31, 2010.

North Carolina COA: C-0844



March 16, 2010

Liu, Xuegang

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.  
Engineering services provided by Truss Engineering Company.

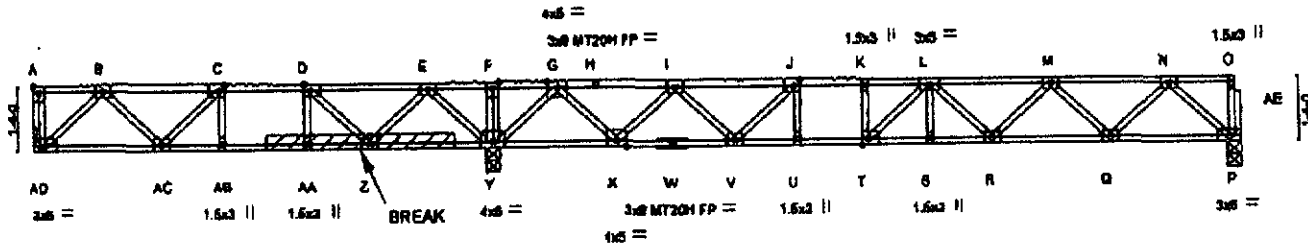
Job 321740	Truss FDS	Truss Type FLOOR	Qty 10	Ply 1	31 Persimmon Mill, Hamlet Co., NC 1 UNITY YF 116305437
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Builders FirstSource, Sumter, SC

6:500 s Aug 27 2007 MITek Industries, Inc. Tue Mar 16 08:54:09 2010 Page 1



CLEAN BREAK IN BOTTOM CHORD AT 84" FROM THE LEFT END.  
NO PLATES ARE TO BE DISTURBED.



APPLY 2X4X4" SPF No.2 SCAB(S) TO EACH FACE OF TRUSS CENTERED ON BREAK. ATTACH WITH CONSTRUCTION QUALITY ADHESIVE AND 1 ROW OF 10d (3" X 0.131") NAILS SPACED 8-3-0 O.C. IN ALL ALIGNING MEMBERS. USE A MIN. 8-3-0 MEMBER END DISTANCE.

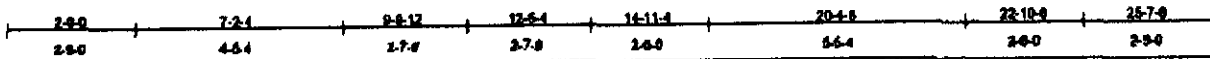


Plate Offsets (X, Y): JA-Edge, P-1-6, C-0-1-8, D-0-1-8, E-0-1-8, F-0-1-8, G-0-1-8, H-0-1-8, I-0-1-8, J-0-1-8, K-0-1-8, L-0-1-8, M-0-1-8, N-0-1-8, O-0-1-8

LOADING (psf)	SPACING	CSI	DEFL	In (loc)	Udefl	L/d	PLATES	GRIP
TCLL 40.0	Plates Increase 1.00	TC 0.60	Vert(LL) -0.13	S-T	>999	480	MT20	244/190
TCDL 10.0	Lumber Increase 1.00	RC 0.89	Vert(TL) -0.21	S-T	>916	360	MT20H	187/143
BCLL 0.0	Rep Stress Incr YES	WB 0.40	Horz(TL) 0.04	P	n/a	n/a		
BCDL 5.0	Code IRC2009/TP12002	(Metric)						Weight: 135 lb

LUMBER

TOP CHORD 4 X 2 SYP No.2  
BOT CHORD 4 X 2 SYP No.2  
WEBS 4 X 2 SYP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end vertical.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) AD=376/Mechanical, Y=1648/0-3-8, P=760/0-3-8  
Max Grav AD=468(LC 2), Y=1648(LC 1), P=761(LC 4)

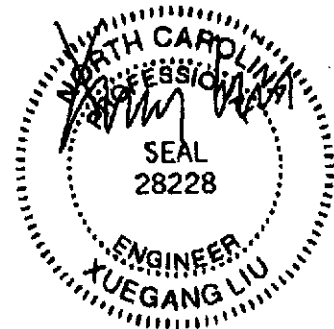
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD A-AD=3075, P-AE=3870, O-AE=3870, A-B=0/0, B-C=472/57, C-D=402/248, D-E=434/555, E-F=0/1374, F-G=0/1374, G-H=716/11, H-I=716/11, I-J=1778/0, J-K=2227/0, K-L=2227/0, L-M=2112/0, M-N=1572/0, N-O=240  
BOT CHORD AC-AD=0/488, AB-AC=248/802, AA-AB=248/802, Z-AA=248/802, Y-Z=793/90, X-Y=347/30, W-X=0/1573, V-W=0/1373, U-V=0/2227, T-U=0/2127, S-U=0/2349, R-S=0/2349, Q-R=0/1878, P-Q=0/834  
WEBS F-Y=118/0, B-AD=648/0, E-Y=0/140, B-AC=107/256, E-Z=0/618, C-AC=178/247, D-Z=728/0, C-AB=205/0, D-AA=0/253, N-P=1108/0, G-Y=1367/0, N-Q=0/747, G-X=0/997, M-Q=704/0, I-X=957/0, M-R=0/325, I-V=0/610, L-R=322/0, L-S=1/119, J-V=700/0, L-T=413/169, J-U=142/31, K-Y=73/68

NOTES (5)

- Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 3/4 MT20 unless otherwise indicated.
- Attach ribbon block to truss with 3-10d nails applied to flat face.
- Refer to girder(s) for truss to truss connections.
- This truss is designed in accordance with the 2006 International Residential Code sections R502.11.1 and R602.10.2 and referenced standard ANSVTP1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-16d nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION: Do not erect truss backward.
- 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 ANSVTP1 as referenced by the building code.

LOAD CASE(S) Standard



March 16, 2010

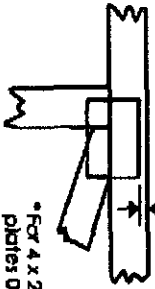
<p><b>WARNING</b> - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE NO. 2473 rev. 10-09 BEFORE USE. Design valid for use only with Mittek connection. This design is based only upon parameters shown, and is for an individual building component. Applicability of design 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 guidelines regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSVTP1 Quality Criteria, DS9-09 and ICCI Building Component Safety Information available from Truss Plate Institute, 281 N. Lee Street, Suite 313, Alexandria, VA 22314.</p>	<p>ENGINEERING BY <b>TRENCO</b> A MITEK COMPANY 518 Sandstone Road Bladenboro, NC 27822</p>
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# Symbols

## PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0-1/4" from outside edge of truss.

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

Note location details available in Mitek 28/20 software or upon request.

## PLATE SIZE

4 X 4

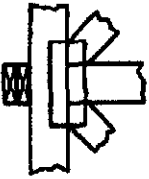
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T, L or Ellipsoid for bracing if indicated.

## BEARING



Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

Industry Standards:  
ANSI/AP11:

National Design Specification for Metal Plate Connected Wood Truss Construction.

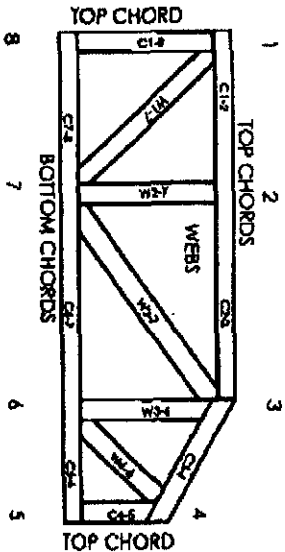
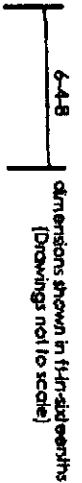
DSB-89:

Design Standard for Bracing.

BCSI:

Building Component Safety Information, Guide to Good Practice for Handling, Detailing & Bracing of Metal Plate Connected Wood Trusses.

# Numbering System



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-1362, ESR-5243, 96048
- 9730, 95-43, 96-31, 9667A
- NER-487, NER-561
- 95110, 94-32, 96-67, ER-3907, 9432A

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Mitek Engineering Reference Sheet: MR-7473 rev. 10-08

# General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSL.
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral bracing members may require bracing, or alternative L, I or Ellipsoid bracing should be considered.
- Never exceed the design loading shown and never stack trusses on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/AP11.
- Design assumes trusses will be adequately protected from the environment in accord with ANSI/AP11.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% of fiber saturation.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Member is a non-structural consideration and is the responsibility of truss fabricator. General practice is to chamber for deck load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size and in all respects, equal to or better than that specified.
- Top chords must be sheathed or pultrus provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no calling is provided, unless otherwise noted.
- Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Joint and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (text, detail, wane and pictures) before use. Revising pictures done is not sufficient.
- Design assumes manufacture in accordance with ANSI/AP11 Quality Criteria.

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	3/12/10	AP	T/S: 03/12/2010 02:56 PM FSPIVEY -----
R425 01	4/14/10	FS	FOUR TRADE ROUGH IN VRU #: 001908528
	4/14/10	AP	T/S: 04/14/2010 02:15 PM FSPIVEY -----
I129 01	4/16/10	TI	R*INSULATION INSPECTION VRU #: 001910089

*4-16-10* *AP*

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I129 01	4/16/10	FS	R*INSULATION INSPECTION VRU #: 001910089
	4/16/10	AP	T/S: 04/16/2010 03:09 PM FSPIVEY -----
H824 01	5/06/10	OT	✓ ENVIR. OPERATIONS PERMIT TIME: 17:00 VRU #: 001923721
	5/06/10	AP	T/S: 05/10/2010 11:07 AM SSTEWARD -----
			T/S: 05/10/2010 11:07 AM SSTEWARD -----
R429 01	6/08/10	TI	FOUR TRADE FINAL VRU #: 001937220

*6-8-10* *AP*

*ES*

COMMENTS AND NOTES

County of Harnett  
Building Inspections Department  
Planning Services

Certificate of Compliance: \_\_\_\_\_ Occupancy: ✓

Certificate issued pursuant to the requirements of North Carolina General Statute 153A-363 and Harnett County Zoning Ordinances. This certifies at the time of issuance, this structure was in compliance with the various ordinances of the County of Harnett and the North Carolina State Building Codes. For the following:

Use Classification: ✓ Home

Name: KENT PIERCE

Address: 530 OLD FIELD LOOP  
CAMEROO 28526

Permit Numbers

Building: 9-5-23491

Electrical: 9-5-23491

Insulation: 9-5-23491

Plumbing: 9-5-23491

Mechanical: 9-5-23491

MEC Home: \_\_\_\_\_

Date: 6-8-10

Building Official: [Signature]