DATE 09/17/2010

Columbia County Building Permit

This Permit Must Be Prominently Posted on Premises During Construction

PERMIT
000028868

APPLICANT ALEX B.COLSON PHONE 386.752.0205

ADDRESS 167 SE MYRTIS ROAD LAKE CITY FL 32025

OWNER ALEX B. COLSON PHONE 386.752.0205

ADDRESS 167 SE MYRTIS ROAD LAKE CITY FL 32025

CONTRACTOR ALEX B. COLSON PHONE 386.752.0205

LOCATION OF PROPERTY 41/441-S TO MYRTIS RD.,TL AND IT'S THE 2ND DRIVEWAY ON L.
(WITHIN 125')

TYPE DEVELOPMENT BATHROOM ADDITION ESTIMATED COST OF CONSTRUCTION 14400.00

HEATED FLOOR AREA 288.00 TOTAL AREA 288.00 HEIGHT ____ STORIES ____

FOUNDATION CONC WALLS ____ ROOF PITCH 4'12 FLOOR CONC

LAND USE & ZONING A-3 MAX. HEIGHT 35

Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00

NO. EX.D.U. 1 FLOOD ZONE X DEVELOPMENT PERMIT NO. ____

PARCEL ID 10-5S-17-09186-001 SUBDIVISION ____

LOT ____ BLOCK ____ PHASE ____ UNIT ____ TOTAL ACRES 4.00

		OWNER	✓ Alex B Colson	
Culvert Permit No.	Culvert Waiver	Contractor's License Number	Applicant/Owner/Contractor	
EXISTING	10-0427	BLK	TC	N
Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident

COMMENTS: ADDITION TO EXISTING DWELLING. NOC ON FILE.

Check # or Cash 103

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power ____ date/app. by Foundation ____ date/app. by Monolithic ____ date/app. by

Under slab rough-in plumbing ____ date/app. by Slab ____ date/app. by Sheathing/Nailing ____ date/app. by

Framing ____ date/app. by Insulation ____ date/app. by

Rough-in plumbing above slab and below wood floor ____ date/app. by Electrical rough-in ____ date/app. by

Heat & Air Duct ____ date/app. by Peri. beam (Lintel) ____ date/app. by Pool ____ date/app. by

Permanent power ____ date/app. by C.O. Final ____ date/app. by Culvert ____ date/app. by

Pump pole ____ date/app. by Utility Pole ____ date/app. by M/H tie downs, blocking, electricity and plumbing ____ date/app. by

Reconnection ____ date/app. by RV ____ date/app. by Re-roof ____ date/app. by

BUILDING PERMIT FEE $ 75.00 CERTIFICATION FEE $ 1.44 SURCHARGE FEE $ 1.44

MISC. FEES $ 0.00 ZONING CERT. FEE $ 50.00 FIRE FEE $ 0.00 WASTE FEE $ ____

FLOOD DEVELOPMENT FEE $ ____ FLOOD ZONE FEE $ 25.00 CULVERT FEE $ ____ **TOTAL FEE** 152.88

INSPECTORS OFFICE ____ CLERKS OFFICE CH

NOTICE: IN ADDITION TO THE REQUIREMENTS OF THIS PERMIT, THERE MAY BE ADDITIONAL RESTRICTIONS APPLICABLE TO THIS PROPERTY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY. AND THERE MAY BE ADDITIONAL PERMITS REQUIRED FROM OTHER GOVERNMENTAL ENTITIES SUCH AS WATER MANAGEMENT DISTRICTS, STATE AGENCIES, OR FEDERAL AGENCIES.

"WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT."

EVERY PERMIT ISSUED SHALL BECOME INVALID UNLESS THE WORK AUTHORIZED BY SUCH PERMIT IS COMMENCED WITHIN 180 DAYS AFTER ITS ISSUANCE, OR IF THE WORK AUTHORIZED BY SUCH PERMIT IS SUSPENDED OR ABANDONED FOR A PERIOD OF 180 DAYS AFTER THE TIME THE WORK IS COMMENCED. A VALID PERMIT RECIEVES AN APPROVED INSPECTION EVERY 180 DAYS. WORK SHALL BE CONSIDERED NOT SUSPENDED, ABANDONED OR INVALID WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS OT THE PREVIOUS INSPECTION.

The Issuance of this Permit Does Not Waive Compliance by Permittee with Deed Restrictions.

#103

Columbia County Building Permit Application

For Office Use Only Application # 1009.19 Date Received 9/10 By JW Permit # 28868

Zoning Official BLK Date 17.09.10 Flood Zone X Land Use A-3 Zoning A-3

FEMA Map # N/A Elevation N/A MFE N/A River N/A Plans Examiner T.C. Date 9-15-10

Comments

☑ NOC ☑ EH ☑ Deed or PA ☑ Site Plan ☐ State Road Info ☐ Parent Parcel #

☐ Dev Permit # ☐ In Floodway ☐ Letter of Auth. from Contractor ☐ F W Comp. letter

IMPACT FEES: EMS Fire Corr Road/Code

School = TOTAL ~~SUSPEND~~ Addition to existing dwelling

Septic Permit No. 10-0427 Fax

Name Authorized Person Signing Permit Alex B Colson Phone 386 752 0205

Address 167 SE Myrtis Rd Lake City FL 32025

Owners Name Alex B Colson Phone 386 752 0205

911 Address 167 SE Myrtis Rd Lake City 32025

Contractors Name Alex B Colson Phone 386 752 0205

Address 167 SE Myrtis Rd Lake City 32025

Fee Simple Owner Name & Address Alex B Colson 167 SE Myrtis Rd Lake City

Bonding Co. Name & Address —

Architect/Engineer Name & Address Spitko + Lamont Engineering 10 SW 1st Ave Gainesville FL 32601

Mortgage Lenders Name & Address CASH

Circle the correct power company – FL Power & Light – (Clay Elec.) – Suwannee Valley Elec. – Progress Energy

Property ID Number 10-55-17-09186-001 Estimated Cost of Construction 10,000.

Subdivision Name N/A Lot ___ Block ___ Unit ___ Phase ___

Driving Directions South on 41+441 Turn Left on Myrtis Rd about 125 ft 2nd. Drive way to the Left

Number of Existing Dwellings on Property 1

Construction of Master bathroom addition Total Acreage ___ Lot Size ___

Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive Total Building Height ___

INTERIOR REMODEL - N/A

Actual Distance of Structure from Property Lines - Front 206.75' Side 86.0' Side 1,000± Rear 356.05'

Number of Stories 1 Heated Floor Area 288 Total Floor Area 288 Roof Pitch 4 1/2 / 12

Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work be performed to meet the standards of all laws regulating construction in this jurisdiction.

JW - Left message on house phone recorder 9.17.11

JW - tried to leave message: cut off abruptly by his employee @ 352-472-3596 9.17.11

Columbia County Building Permit Application

TIME LIMITATIONS OF APPLICATION : An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application has been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated.

TIME LIMITATIONS OF PERMITS: Every permit issued shall become invalid unless the work authorized by such permit is commenced within 180 days after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of 180 days after the time work is commenced. A valid permit receives an approved inspection every 180 days. Work shall be considered not suspended, abandoned or invalid when the permit has received an approved inspection within 180 days of the previous approved inspection.

FLORIDA'S CONSTRUCTION LIEN LAW: Protect Yourself and Your Investment: According to Florida Law, those who work on your property or provide materials, and are not paid-in-full, have a right to enforce their claim for payment against your property. This claim is known as a construction lien. If your contractor fails to pay subcontractors or material suppliers or neglects to make other legally required payments, the people who are owed money may look to your property for payment, even if you have paid your contractor in full.
This means if a lien is filed against your property, it could be sold against your will to pay for labor, materials or other services which your contractor may have failed to pay.

NOTICE OF RESPONSIBILITY TO BUILDING PERMITEE: ***YOU ARE HEREBY NOTIFIED*** as the recipient of a building permit from Columbia County, Florida, you will be held responsible to the County for any damage to sidewalks and/or road curbs and gutters, concrete features and structures, together with damage to drainage facilities, removal of sod, major changes to lot grades that result in ponding of water, or other damage to roadway and other public infrastructure facilities caused by you or your contractor, subcontractors, agents or representatives in the construction and/or improvement of the building and lot for which this permit is issued. No certificate of occupancy will be issued until all corrective work to these public infrastructures and facilities has been corrected.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

OWNERS CERTIFICATION: I CERTIFY THAT ALL THE FOREGOING INFORMATION IS ACCURATE AND THAT ALL WORK WILL BE DONE IN COMPLIANCE WITH ALL APPLICABLE LAWS REGULATING CONSTRUCTION AND ZONING.

NOTICE TO OWNER: There are some properties that may have deed restrictions recorded upon them. These restrictions may limit or prohibit the work applied for in your building permit. It may be to your advantage to check and see if your property is encumbered by any restrictions.

(Owners Must Sign All Applications Before Permit Issuance.)

Alyn B Colson
_____
Owners Signature ****OWNER BUILDERS MUST PERSONALLY APPEAR AND SIGN THE BUILDING PERMIT.**

CONTRACTORS AFFIDAVIT: By my signature I understand and agree that I have informed and provided this written statement to the owner of all the above written responsibilities in Columbia County for obtaining this Building Permit including all application and permit time limitations.

_____ **Contractor's License Number**_____
Contractor's Signature (Permitee) **Columbia County**
Competency Card Number_____

Affirmed under penalty of perjury to by the Contractor and subscribed before me this ____ day of _____ 20___.

Personally known_____ or Produced Identification_____

_____ **SEAL:**

State of Florida Notary Signature (For the Contractor)

Columbia County Property Appraiser

DB Last Updated: 8/5/2010

2009 Tax Roll Year

Tax Collector | Tax Estimator | Property Card | Parcel List Generator | Interactive GIS Map | Print

Parcel: 10-5S-17-09186-001

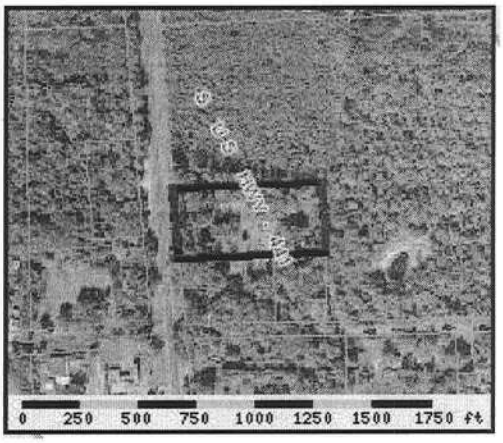
<< Next Lower Parcel | Next Higher Parcel >>

<< Prev Search Result: 4 of 8 Next >>

Owner & Property Info

Owner's Name	COLSON ALEX BATES & IRIS GAIL		
Mailing Address	167 SE MYRTIS RD LAKE CITY, FL 32025		
Site Address	167 SE MYRTIS RD		
Use Desc. (code)	MOBILE HOM (000200)		
Tax District	3 (County)	**Neighborhood**	10517
Land Area	4.000 ACRES	**Market Area**	02
Description	NOTE: This description is not to be used as the Legal Description for this parcel in any legal transaction.		

COMM INTERS E R/W US-441 & S LINE OF NW1/4 OF SE1/4, RUN N ALONG R/W 321.49 FT FOR POB, CONT N 300 FT, E 580.8 FT, S 300 FT, W 580.8 FT TO POB. (JOINS 09186-003) ORB 392-659,



Property & Assessment Values

2009 Certified Values		
Mkt Land Value	cnt: (0)	$37,243.00
Ag Land Value	cnt: (1)	$0.00
Building Value	cnt: (2)	$53,828.00
XFOB Value	cnt: (8)	$16,908.00
Total Appraised Value		$107,979.00
Just Value		$107,979.00
Class Value		$0.00
Assessed Value		$101,318.00
Exempt Value	(code: HX)	$35,755.00
Total Taxable Value		Cnty: $65,563 Other: $65,563 | Schl: $76,318

2010 Working Values

NOTE:
2010 Working Values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.

Show Working Values

Sales History

Show Similar Sales within 1/2 mile

Sale Date	OR Book/Page	OR Code	Vacant / Improved	Qualified Sale	Sale RCode	Sale Price
NONE						

Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
1	MOBILE HME (000800)	1977	(31)	2139	3501	$15,012.00
2	PREF M B A (008700)	1984	MOD METAL (25)	5000	5000	$35,332.00
	Note: All S.F. calculations are based on exterior building dimensions.					

Extra Features & Out Buildings

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
0070	CARPORT UF	0	$800.00	0000640.000	20 x 32 x 0	(000.00)
0294	SHED WOOD/	0	$231.00	0000132.000	11 x 12 x 0	(000.00)
0021	BARN,FR AE	0	$633.00	0000506.000	23 x 22 x 0	(000.00)

Inst 201012014978 Date 9/17/2010 Time 8:50 AM
DC,P.DeWitt Cason,Columbia County Page 1 of 1 B 1201 P 1298

County Clerk's Office Stamp or Seal

NOTICE OF COMMENCEMENT

Tax Parcel Identification Number 10-5S-17-09186-001

THE UNDERSIGNED hereby gives notice that improvements will be made to certain real property, and in accordance with Section 713.13 of the Florida Statutes, the following information is provided in this **NOTICE OF COMMENCEMENT.**

1. Description of property *(legal description)*:
   a) Street *(job)* Address: 169 SE myrtis Road lake city Fl 32025
2. General description of improvements: Remove 1 Bathroom, build 1 Bathroom

3. Owner Information
   a) Name and address: Alex Colson 169 SE myrtis Road lake city Florida 32025
   b) Name and address of fee simple titleholder (if other than owner) _____
   c) Interest in property _____
4. Contractor Information
   a) Name and address: owner
   b) Telephone No.: _____ Fax No. (Opt.) _____
5. Surety Information
   a) Name and address: _____
   b) Amount of Bond: _____
   c) Telephone No.: _____ Fax No. (Opt.) _____
6. Lender
   a) Name and address: out of Pocket
   b) Phone No. _____
7. Identity of person within the State of Florida designated by owner upon whom notices or other documents may be served:
   a) Name and address: _____
   b) Telephone No.: _____ Fax No. (Opt.) _____

8. In addition to himself, owner designates the following person to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes:
   a) Name and address: _____
   b) Telephone No.: _____ Fax No. (Opt.) _____

9. Expiration date of Notice of Commencement **(the expiration date is one year from the date of recording unless a different date is specified)**: _____

WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY; A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

STATE OF FLORIDA
COUNTY OF COLUMBIA

10. Alex B Colson
Signature of Owner or Owner's Authorized Office/Director/Partner/Manager

Alex B Colson
Print Name

The foregoing instrument was acknowledged before me, a Florida Notary, this 10th day of September, 20 10, by:
Alex B Colson as OWNER (type of authority, e.g. officer, trustee, attorney fact) for Alex B. Colson (name of party on behalf of whom instrument was executed).

Personally Known ____ OR Produced Identification ✓ Type DL

Notary Signature Laurie Hodson

Notary Stamp or Seal:

LAURIE HODSON
MY COMMISSION # DD 805657
EXPIRES: July 14, 2012
Bonded Thru Notary Public Underwriters

—AND—

11. Verification pursuant to Section 92.525, Florida Statutes. Under penalties of perjury, I declare that I have read the foregoing and that the facts stated in it are true to the best of my knowledge and belief.

SUBCONTRACTOR VERIFICATION FORM

APPLICATION NUMBER 1009-17 CONTRACTOR ALEX COLSON PHONE 352.472-3596

THIS FORM MUST BE SUBMITTED PRIOR TO THE ISSUANCE OF A PERMIT

In Columbia County one permit will cover all trades doing work at the permitted site. It is REQUIRED that we have records of the subcontractors who actually did the trade specific work under the permit. Per Florida Statute 440 and Ordinance 89-6, a contractor shall require all subcontractors to provide evidence of workers' compensation or exemption, general liability insurance and a valid Certificate of Competency license in Columbia County.

Any changes, the permitted contractor is responsible for the corrected form being submitted to this office prior to the start of that subcontractor beginning any work. Violations will result in stop work orders and/or fines.

ELECTRICAL	Print Name N/A License #:	Signature Phone #:
MECHANICAL/ A/C _____	Print Name Alex Colson License #:	Signature Alex B Colson Phone #: 352 472 3596
PLUMBING/ GAS	Print Name Alex B Colson License #:	Signature Alex B Colson Phone #: 352-472-3596
ROOFING	Print Name License #:	Signature Phone #:
SHEET METAL	Print Name License #:	Signature Phone #:
FIRE SYSTEM/ SPRINKLER	Print Name License#:	Signature Phone #:
SOLAR	Print Name License #:	Signature Phone #:

Specialty License	License Number	Sub-Contractors Printed Name	Sub-Contractors Signature
MASON			
CONCRETE FINISHER			
FRAMING			
INSULATION			
STUCCO			
DRYWALL		N/A	
PLASTER			
CABINET INSTALLER			
PAINTING			
ACOUSTICAL CEILING			
GLASS			
CERAMIC TILE		Alex B Colson	Alex B Colson
FLOOR COVERING		" "	Alex B Colson
ALUM/VINYL SIDING			
GARAGE DOOR		N/A	
METAL BLDG ERECTOR			

F. S. 440.103 Building permits; identification of minimum premium policy.--Every employer shall, as a condition to applying for and receiving a building permit, show proof and certify to the permit issuer that it has secured compensation for its employees under this chapter as provided in ss. 440.10 and 440.38, and shall be presented each time the employer applies for a building permit.

COLUMBIA COUNTY BUILDING DEPARTMENT
135 NE Hernando Ave., Suite B-21
Lake City, FL 32055
Office: 386-758-1008 Fax: 386-758-2160

OWNER BUILDER DISCLOSURE STATEMENT

I understand that state law requires construction to be done by a licensed contractor and have applied for an owner-builder permit under an exemption from the law. The exemption specifies that I, as the owner of the property listed, may act as my own contractor with certain restrictions even though I do not have a license.

I understand that building permits are not required to be signed by a property owner unless he or she is responsible for the construction and is not hiring a licensed contractor to assume responsibility.

I understand that, as an owner-builder, I am the responsible party of record on a permit. I understand that I may protect myself from potential financial risk by hiring a licensed contractor and having the permit filed in his or her name instead of my own name. I also understand that a contractor is required by law to be licensed and bonded in Florida and to list his or her license numbers on permits and contracts.

I understand that I may build or improve a one-family or two-family residence or farm outbuilding. I may also build or improve a commercial building if the costs do not exceed $75,000. The building or residence must be for my own use or occupancy. It may not be built or substantially improved for sale or lease. If a building or residence that I have built or substantially improved myself is sold or leased with in 1 year after the construction is complete, the law will presume that I built or substantially improved it for sale or lease, which violates the exemption.

I understand that, as the owner-builder, I must provide direct, onsite supervision of the construction.

I understand that I may not hire an unlicensed person to act as my contractor or to supervise persons working on my building or residence. It is my responsibility to ensure that the persons whom I employ have the licenses required by law and by county or municipal ordinance.

I understand that it is frequent practice of unlicensed persons to have the property owner obtain an owner-builder permit that erroneously implies that the property owner is providing his or her own labor and materials. I, as an owner-builder, may be held liable and subjected to serious financial risk for any injuries sustained by an unlicensed person or his or her employees while working on my property. My homeowner's insurance may not provide coverage for those injuries. I am willfully acting as an owner-builder and am aware of the limits of my insurance coverage for injuries to workers on my property.

I understand that I may not delegate the responsibility for supervising work to a licensed contractor who is not licensed to perform the work being done. Any person working on my building who is not licensed must work under my direct supervision and must be employed by me, which means that I must comply with laws requiring the withholding of federal income tax and social security contributions under the Federal Insurance Contributions Act (FICA) and must provide workers' compensation for the employee. I understand that my failure to follow these laws may subject me to serious financial risk.

I agree that, as the party legally and financially responsible for this proposed construction activity, I will abide by all applicable laws and requirements that govern owner-builders as well as employers. I also understand that the construction must comply with all applicable laws, ordinances, building codes, and zoning regulations.

I understand that I may obtain more information regarding my obligations as an employer from the Internal Revenue Service, the United States Small Business Administration, the Florida Department of Financial Services, and the Florida Department of Revenue. I also understand that I may contact the Florida Construction Industry Licensing Board at 850-487-1395 or Internet website address http://www.myflorida.com/dbpr/pro/cilb/index.html for more information about licensed contractors.

I am aware of, and consent to, an owner-builder building permit applied for in my name and understand that I am the party legally and financially responsible for the proposed construction activity at the following address:

_____.

I agree to notify Columbia County Building Department immediately of any additions, deletions, or changes to any of the information that I have provided on this disclosure. Licensed contractors are regulated by laws designed to protect the public. If you contract with a person who does not have a license, the Construction Industry Licensing Board and Department of Business and Professional Regulation may be unable to assist you with any financial loss that you sustain as a result of a complaint. Your only remedy against an unlicensed contractor may be in civil court. It is also important for you to understand that, if an unlicensed contractor or employee of an individual of firm is injured while working on your property, you may be held liable for damages. If you obtain an owner-builder permit and wish to hire a licensed contractor, you will be responsible for verifying whether the contractor is properly licensed and the status of the contractor's workers' compensation coverage.

I understand that if I hire subcontractors they must be licensed for that type of work in Columbia County, ex: framing, stucco, masonry, and state registered builders. Registered Contractors must have a minimum of $300,000.00 in General Liability insurance coverage and the proper workers' compensation. Specialty Contractors must have a minimum of $100,000.00 in General Liability insurance coverage and the proper workers' compensation coverage.

Before a building permit can be issued, this disclosure statement must be completed and signed by the property owner and returned to Columbia County Building Department.

TYPE OF CONSTRUCTION

(✓) Single Family Dwelling ( ) Two-Family Residence ( ) Farm Outbuilding

(✓) Addition, Alteration, Modification or other Improvement

( ) Commercial, Cost of Construction_____ Construction of_____

( ) Other_____

I Alex B Colson, have been advised of the above disclosure statement for exemption from contractor licensing as an owner/builder. I agree to comply with all requirements provided for in Florida Statutes allowing this exception for the construction permitted by Columbia County Building Permit.

Alex B Colson 9/9/10

Owner Builder Signature Date

NOTARY OF OWNER BUILDER SIGNATURE

The above signer is personally known to me or produced identification DL

Notary Signature Laurie Hodson Date 9.10.10 (Seal)

LAURIE HODSON
MY COMMISSION # DD 805657
EXPIRES: July 14, 2012
Bonded Thru Notary Public Underwriters

FOR BUILDING DEPARTMENT USE ONLY

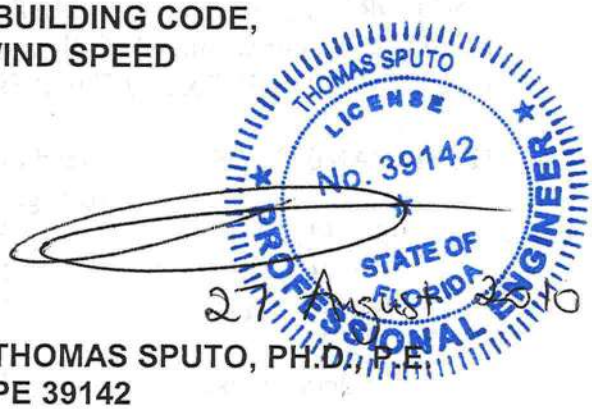
I hereby certify that the above listed owner builder has been given notice of the restriction stated above.

Building Official/Representative Daniel Hamm

Revised: 7-23-09
DISCLOSURE STATEMENT 09
Documents: B&Z Forms

WIND RESISTANCE ENGINEERING CALCULATIONS FOR COLSON RESIDENCE ADDITION COLUMBIA COUNTY, FL

DESIGNED IN ACCORDANCE WITH
REQUIREMENTS OF 2007 FLORIDA BUILDING CODE,
SECTION 1609 FOR 100 MPH WIND SPEED



27 August 2010

THOMAS SPUTO, PH.D., P.E.
PE 39142

SPUTO AND LAMMERT ENGINEERING, LLC
STRUCTURAL ENGINEERS
10 SW 1st AVENUE, GAINESVILLE, FLORIDA 32601
(352) 378-0448
CA 6855

JOINT REINFORCING: Install #9 wire, ladder type joint reinforcing in masonry walls at 16" on center.

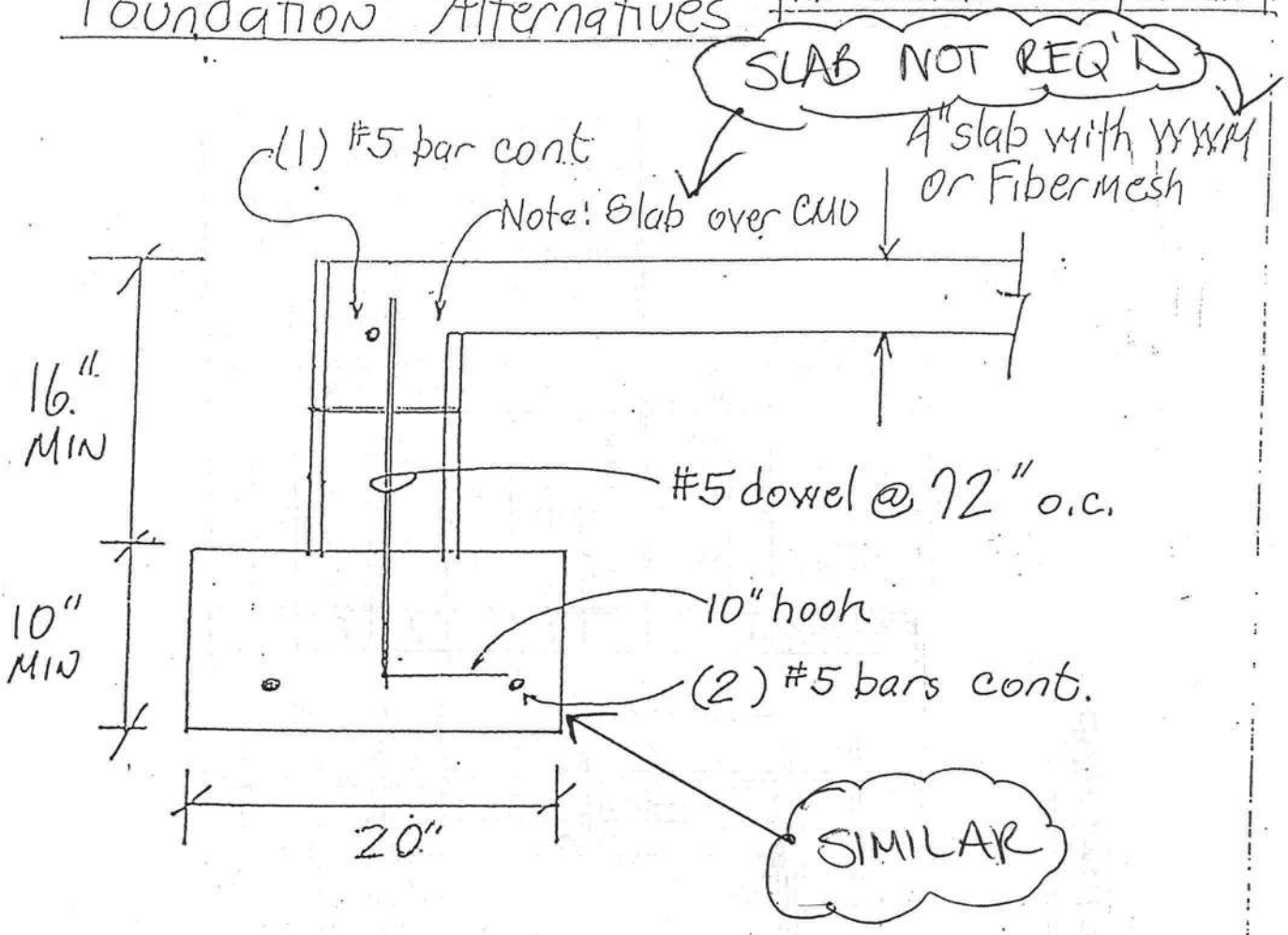
NOTE: 10-1/4 GAGE NAILS HAVE A DIAMETER OF 0.131 INCHES.

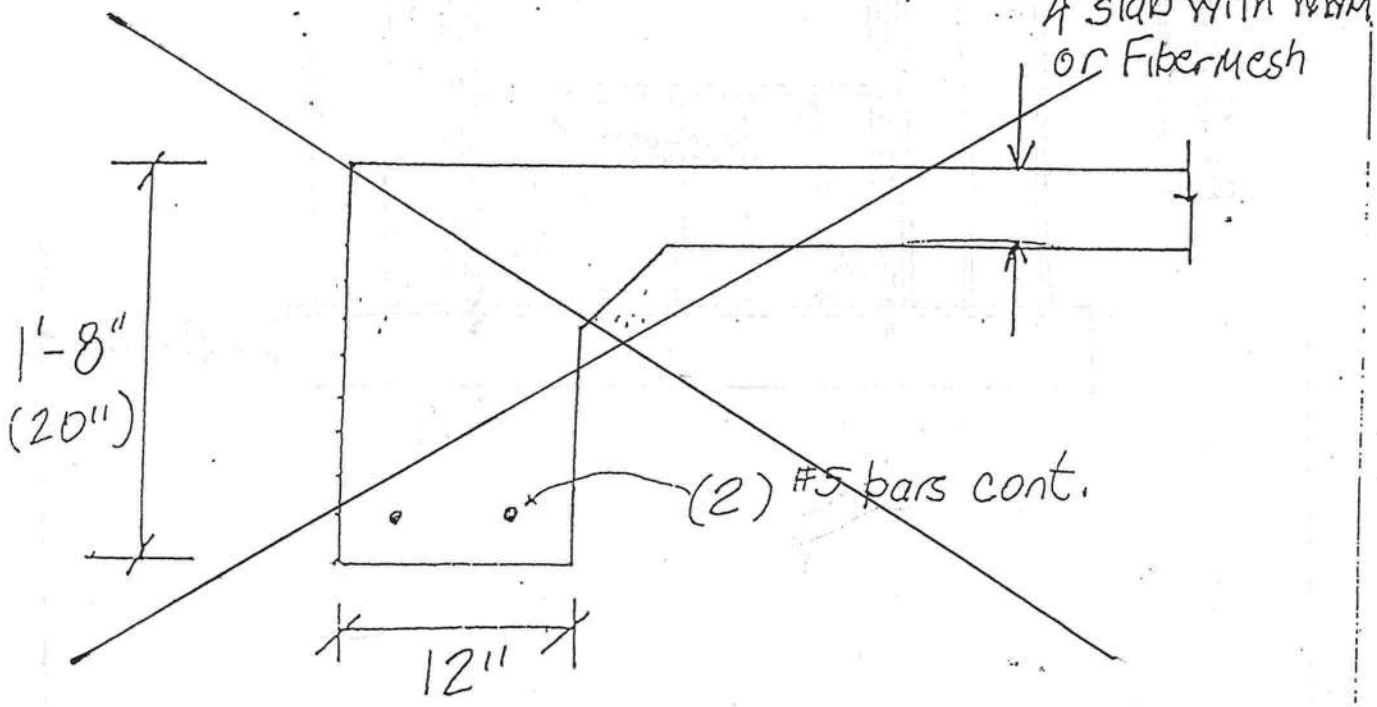
2007 Florida Building Code Section 1603.1.4 Information

Basic Wind Speed	=	100 mph
Importance Factor	=	1.00
Building Category	=	II
Wind Exposure	=	B
Internal Pressure Coefficient	=	+- 0.18
C & C Pressures	=	Zone 4 = 18.7 psf
		Zone 5 = 22.5 psf

All rebar - Grade 40
All concrete - 3000 psi MIN

Foundation Alternatives





META/HETA/HHETA/HETAL/DETAL/TSS *Embedded Truss Anchors and Truss Seat Snap-In*

SIMPSON Strong-Tie

The embedded truss anchor series provides an engineered method to properly attach roof trusses to concrete and masonry walls. The products are designed with staggered nail patterns for greater uplift resistance. Information regarding the use of two anchors on single- and multi-ply trusses is included.

The TSS, a companion product of the META, provides a moisture barrier between the concrete and truss. The preassembled unit is riveted with no height adjustment.

NEW! The DETAL20 is a high capacity embedded truss anchor for attachment of single-ply trusses to concrete and masonry walls. It combines dual embedded anchors with a structural moisture-barrier seat that is partially embedded in the concrete or grout. This seat serves to protect the truss and also provides additional lateral and uplift capacity. The embedded anchors are pre-attached to the moisture barrier through slots that allow for a slight amount of adjustability, providing flexibility during installation to avoid rebar. The moisture-barrier seat includes tabs at each end for optional attachment to the form board in concrete tie-beam applications.

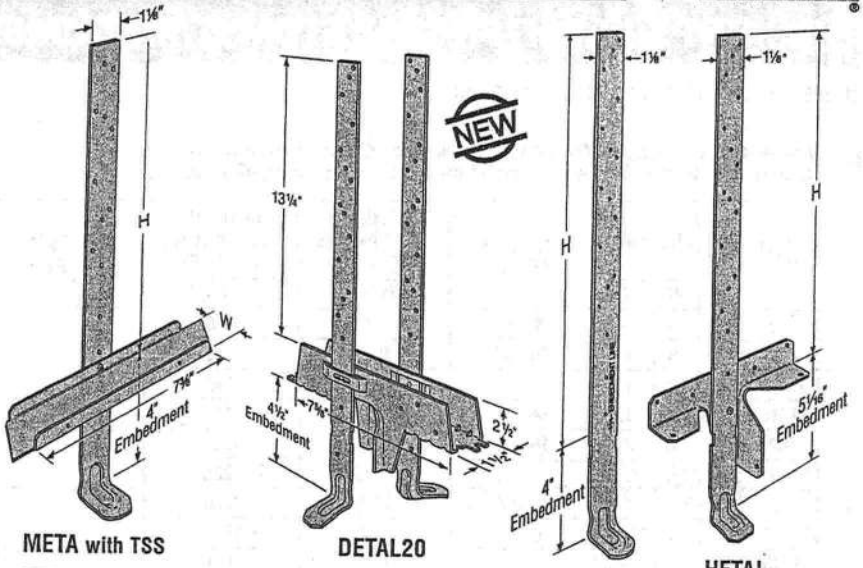
MATERIAL: HHETA–14 gauge; HETA–16 gauge; HETAL–strap 16 gauge, truss seat 18 gauge; META–18 gauge; TSS–22 gauge; DETAL–16 gauge *(Barrier–18 gauge)*

FINISH: Galvanized. Some products available in ZMAX® coating; see Corrosion Information, page 10-11.

INSTALLATION:
- Use all specified fasteners. See General Notes.
- The META, HETA and HHETA are embedded 4" into a concrete beam or grouted block wall; HETAL is embedded 5¹⁄₁₆"; **DETAL is embedded 4½".**
- **The DETAL20 is installed centered and flush on top of an 8" masonry bond beam or concrete tie beam. The moisture barrier seat bears on masonry face shell or concrete tie beam form boards; the two flanges embed into grout or concrete. The two embedded anchors shall be installed vertically into grout or concrete.**
- The TSS moisture barrier may be preattached to the truss using 6d commons.
- A shim is required between the truss and the embedded truss anchor when there is a space of ⅛" to 1½".
- In double embedded anchor installations, do not install fasteners where the straps overlap when wrapped over the truss heel.

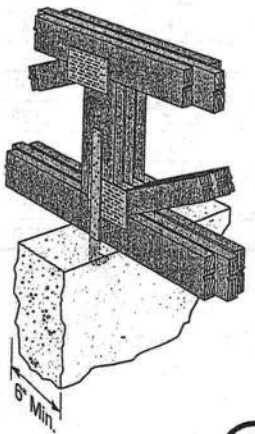
CODES: See page 12 for Code Reference Key Chart.

These products are available with additional corrosion protection. Additional products on this page may also be available with this option, check with Simpson Strong-Tie for details.

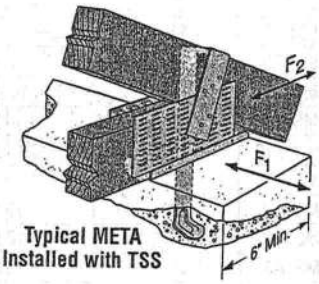


META with TSS | DETAL20 | HETA20 (HHETA similar) | HETAL

Model No.	W
TSS2	1¾
TSS2-2	3⅛
TSS4	3⅝

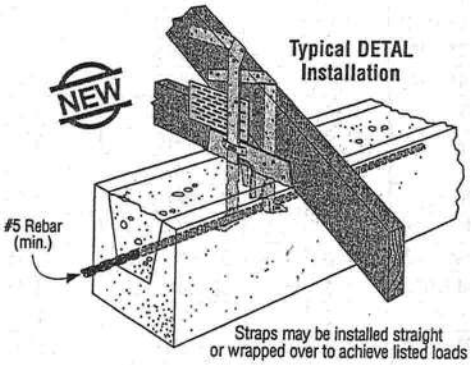


Typical HETA20 Installation



Typical META Installed with TSS

NEW



Typical DETAL Installation

Single Embedded Anchor Installation

Model No.	H	SP Uplift Load 160 Load Duration Increase				Lateral Loads (160)		Code Ref.
		10dx1½		16d				
		Quantity	Load	Quantity	Load	F_1	F_2	
META12	8	7	1450	6	1450	340	725	
META14	10	7	1450	6	1450	340	725	
META16	12	7	1450	6	1450	340	725	
META18	14	7	1450	6	1450	340	725	
META20[6]	16	7	1450	6	1450	340	725	
META22	18	7	1450	6	1450	340	725	
META24	20	7	1450	6	1450	340	725	
META40	36	7	1450	6	1450	340	725	
HETA12	8	7	1520	7	1780	340	725	
HETA16	12	9	1810	8	1810	340	725	
HETA20[6]	16	9	1810	8	1810	340	725	F27
HETA24	20	9	1810	8	1810	340	725	
HETA40	36	9	1810	8	1810	340	725	
HHETA12	8	7	1565	7	1820	340	815	
HHETA16	12	10	2235	9	2235	340[7]	815	
HHETA20[6]	16	10	2235	9	2235	340[7]	815	
HHETA24	20	10	2235	9	2235	340[7]	815	
HHETA40	36	10	2235	9	2235	340[7]	815	
HETAL12	7	10[4]	1085	10[4]	1270	415[5]	1100	
HETAL16	11	14[4]	1810	13[4]	1810	415[5]	1100	
HETAL20	15	14[4]	1810	13[4]	1810	415[5]	1100	

1. Loads include a 60% load duration increase on the fasteners for wind or seismic loading.
2. Minimum f'_c = 2500 psi. Minimum f'_m = 1500 psi.
3. For simultaneous loads in more than one direction, the connector must be evaluated as described in Note e, page 14 under Instructions to the Designer.
4. Five nails must be installed into the truss seat of the HETAL.
5. Parallel-to-wall load towards face of HETAL is 1975 lbs.
6. It is acceptable to use a reduced number of fasteners provided that there is a reduction in uplift load capacity. See example on page 151. Lateral loads do not apply when fewer than 7 fasteners are used with the HETA and HHETA anchors or less than 6-16d or 7-10dx1½ fasteners are used with the META anchor.
7. The HHETA allowable F1 load can be increased to 435 lbs. if the strap is wrapped over the truss and a minimum of 12 nails are installed.
8. Minimum spacing for multiple anchor installation is 2 times the embedment depth for full load. See Double Embedded Anchor Installation table on page 144 for loads on closer spaced anchors.
9. Single ply trusses may use either 10dx1½ or 16d nails. 2 or 3 ply trusses shall use 16d nails.
10. **NAILS:** 16d = 0.162" dia. x 3½" long, 10dx1½ = 0.148" dia. x 1½" long. See page 16-17 for other nail sizes and information.

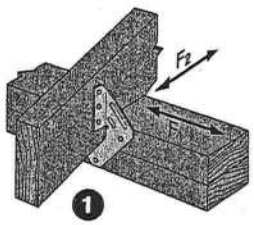
H Seismic & Hurricane Ties

SIMPSON Strong-Tie

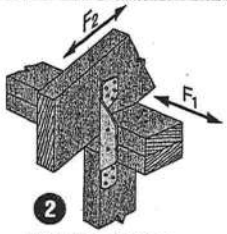
These products are available with additional corrosion protection. Additional products on this page may also be available with this option, check with Simpson Strong-Tie for details.

Model No.	Ga	Fasteners: To Rafters/ Truss	Fasteners: To Plates	Fasteners: To Studs	DF/SP Allowable Loads: Uplift (160)	DF/SP Allowable Loads: Lateral (160) F_1	DF/SP Allowable Loads: Lateral (160) F_2	Uplift Load with 8dx1½ Nails (160)	SPF/HF Allowable Loads: Uplift (160)	SPF/HF Allowable Loads: Lateral (160) F_1	SPF/HF Allowable Loads: Lateral (160) F_2	Uplift Load with 8dx1½ Nails (160)	Code Ref.
H1	18	6-8dx1½	4-8d	—	585	485	165	455	400	415	140	370	I17, L22, F16
H2	18	5-8d	—	5-8d	335	—	—	335	230	—	—	230	
H2A	18	5-8dx1½	2-8dx1½	5-8dx1½	575	130	55	—	495	130	55	—	IP1, F25
H2.5	18	5-8d	5-8d	—	415	150	150	415	365	130	130	365	I17, L22, F16
H2.5A	18	5-8d	5-8d	—	600	110	110	480	535	110	110	480	I17, F16
H2.5T	18	5-8d	5-8d	—	545	135	145	425	545	135	145	425	IP1, F25
H3	18	4-8d	4-8d	—	455	125	160	415	320	105	140	290	I17, L22, F16
H4	20	4-8d	4-8d	—	360	165	160	360	235	140	135	235	
H5	18	4-8d	4-8d	—	455	115	200	455	265	100	170	265	
H6	16	—	8-8d	8-8d	950	—	—	—	820	—	—	—	I17, F16
H7Z	16	4-8d	2-8d	8-8d	985	400	—	—	845	345	—	—	
H8	18	5-10dx1½	5-10dx1½	—	745	75	—	630	565	75	—	510	F26
H10	18	8-8dx1½	8-8dx1½	—	995	590	285	—	850	505	235	—	I17, F16
H10A	18	9-10dx1½	9-10dx1½	—	1140[7]	590	285	—	1015	505	285	—	I17, F25
H10S[9,10]	18	8-8dx1½	8-8dx1½[10]	8-8d	1010	660	215	550	870	570	185	475	IP1, F25
H10-2	18	6-10d	6-10d	—	760	455	395	—	655	390	340	—	I17, F16
H11Z	18	6-16dx2½	6-16dx2½	—	830	525	760	—	715	450	655	—	170
H14	18	[1] 12-8dx1½	13-8d	—	1350[7]	515	265	—	1050	480	245	—	IP1, F25
		[2] 12-8dx1½	15-8d	—	1350[7]	515	265	—	1050	480	245	—	

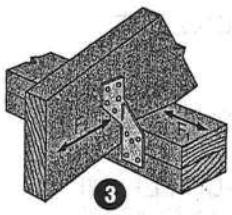
1. Loads have been increased 60% for wind or earthquake loading with no further increase allowed; reduce where other loads govern.
2. Allowable loads are for one anchor. A minimum rafter thickness of 2½" must be used when framing anchors are installed on each side of the joist and on the same side of the plate *(exception: connectors installed such that nails on opposite sides don't interfere).*
3. Allowable DF/SP uplift load for stud to bottom plate installation *(see detail 15)* is 400 lbs. (H2.5); 390 lbs. (H2.5A); 360 lbs. (H4) and 310 lbs. (H8). For SPF/HF values multiply these values by 0.86.
4. Allowable loads in the F_1 direction are not intended to replace diaphragm boundary members or prevent cross grain bending of the truss or rafter members.
5. When cross-grain bending or cross-grain tension cannot be avoided in the members, mechanical reinforcement to resist such forces may be considered.
6. Hurricane Ties are shown installed on the outside of the wall for clarity and assume a minimum overhang of 3½" installation on the inside of the wall is acceptable *(see General Instructions for the Installer notes u on page 14).* For uplift Continuous Load Path, connections in the same area *(i.e. truss to plate connector and plate to stud connector)* must be on same side of the wall.
7. Southern Pine allowable uplift loads for H10A = 1340 lbs. and for H14 = 1465 lbs.
8. Refer to technical bulletin T-HTIEBEARING for H1, H10, H10S, H10-2, H11Z, H14 allowable bearing enhancement loads *(see page 191 for details).*
9. H10S can have the stud offset a maximum of 1" from rafter *(center to center)* for a reduced uplift of 890 lbs. (DF/SP), and 765 lbs. (SPF).
10. H10S nails to plates are optional for uplift but required for lateral loads.
11. **NAILS:** 16dx2½ = 0.162" dia. x 2½" long, 10d = 0.148" dia. x 3" long, 10dx1½ = 0.148" dia. x 1½" long, 8d = 0.131" dia. x 2½" long, 8dx1½ = 0.131" dia. x 1½" long. See page 16-17 for other nail sizes and information.



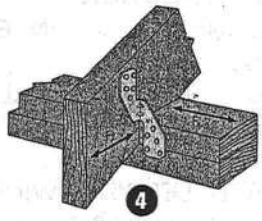
1 H1 Installation



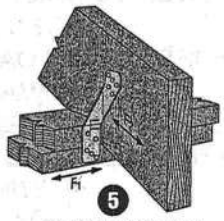
2 H2A Installation
(H2 similar)



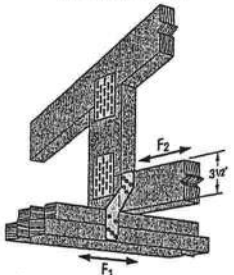
3 H2.5 Installation
(Nails into both top plates)



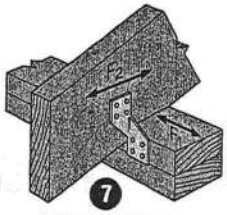
4 H2.5A Installation
(Nails into both top plates)



5 H2.5T Installation
(Nails into both top plates)

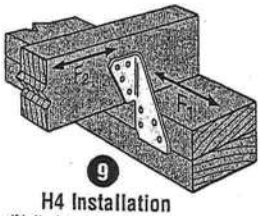


6 H2.5T Installation

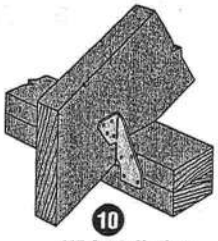


7 H3 Installation
(Nails into upper top plate)

8 H4 Installation
(H2.5 similar)
(see footnote 3)

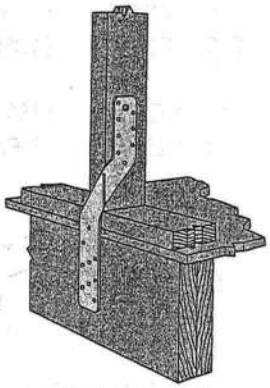


9 H4 Installation
(Nails into upper top plate)

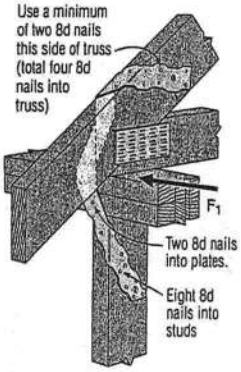


10 H5 Installation
(Nails into both top plates)

11 H6 Stud to Top Plate Installation



12 H6 Stud to Band Joist Installation



13 H7Z Installation

HORIZONTAL TRANSVERSE LOAD

ROOF	-278	LBS.
WALL	2821	LBS.

LONGITUDINAL TRANSVERSE LOAD

ROOF	392	LBS.
WALL	2221	LBS.

ROOF DIAPHRAM — 7/16" OSB

TRANSVERSE — 8d COMMON OR 0.131" DIA. P-NAIL

				6"/12"	4"/12"	3"/12"	
TOTAL DRAGSTRUT LENGTH =		18	FEET				
LOAD RESISTED =	-278	ROOF		357	476	707	PINE
	1411	WALL		OK	OK	OK	
	1132	TOTAL					
	62.9	*PLF*					

LONGITUDINAL

				6"/12"	4"/12"	3"/12"	
TOTAL DRAGSTRUT LENGTH =		32	FEET				
LOAD RESISTED =	392	ROOF		357	476	707	PINE
	1110	WALL		OK	OK	OK	
	1502	TOTAL					
	46.9	*PLF*					

SHEARWALLS — 7/16" OSB

TRANSVERSE — 8d COMMON OR 0.131" DIA. P-NAIL

				6"/12"	4"/12"	3"/12"	
TOTAL SHEARWALL LENGTH =		9	FEET				
LOAD RESISTED =	-278	ROOF		364	532	686	PINE
	1411	WALL		OK	OK	OK	
	1132	TOTAL					
	125.8	*PLF*		298	436	563	SPRUCE
				OK	OK	OK	

LONGITUDINAL

				6"/12"	4"/12"	3"/12"	
TOTAL SHEARWALL LENGTH =		16	FEET				
LOAD RESISTED =	392	ROOF		364	532	686	PINE
	1110	WALL		OK	OK	OK	
	1502	TOTAL					
	93.9	*PLF*		298	436	563	SPRUCE
				OK	OK	OK	

WALL STUD DESIGN

DESIGN PRESSURES: 18.7 PSF INTERIOR ZONE
22.5 PSF END ZONE

INTERIOR ZONE STUDS

STUD LENGTH FEET	SPACING INCHES	INTERIOR MOMENT IN-#		#2 SPF 2X4	#2 PINE 2X4	#2 SPF 2X6	#2 PINE 2X6	#2 PINE 3X4
			Sx	3.06	3.06	7.56	7.56	5.11
			Fb allow	2415	2760	2093	2300	2760
8.75	16	2863		936	936	379	379	560
				OK	OK	OK	OK	OK
10	16	3740		1222	1222	495	495	732
				OK	OK	OK	OK	OK
12.25	16	5612		1834	1834	742	742	1098
				OK	OK	OK	OK	OK
0	0	0		0	0	0	0	0
				OK	OK	OK	OK	OK

END ZONE STUDS

WITHIN *3* *FEET OF CORNERS*

		END ZONE MOMENT IN-#					
8.75	16	3445	1126	1126	456	456	674
			OK	OK	OK	OK	OK
10.5	16	4961	1621	1621	656	656	971
			OK	OK	OK	OK	OK
0	0	0	0	0	0	0	0
			OK	OK	OK	OK	OK
0	0	0	0	0	0	0	0
			OK	OK	OK	OK	OK

Sputo and Lammert Engineering, LLC
10 SW 1st Avenue
Gainesville, FL 32601
Phone 352-378-0448
CA 6855

Title :
Dsgnr:
Description :

Job #
Date: 12:09PM, 25 AUG 10

Scope :

General Timber Beam

Description Wood Joists-2x6 @ 16" o.c.

General Information

Code Ref: 1997/2001 NDS, 2000/2003 IBC, 2003 NFPA 5000. Base allowables are user defined

Section Name	2x6	Center Span	5.75 ft	.....Lu	1.00 ft
Beam Width	1.500 in	Left Cantilever	ft	.....Lu	0.00 ft
Beam Depth	5.500 in	Right Cantilever	ft	.....Lu	0.00 ft
Member Type	Manuf/So.Pine	Southern Pine, No.2 2 -4 Thick, 5 -6 W			
Bm Wt. Added to Loads		Fb Base Allow	1,250.0 psi		
Load Dur. Factor	1.000	Fv Allow	175.0 psi		
Beam End Fixity	Pin-Pin	Fc Allow	565.0 psi		**Repetitive Member**
Wood Density	40.000 pcf	E	1,600.0 ksi		

Full Length Uniform Loads

Center	DL	27.00 #/ft	LL	53.00 #/ft	
Left Cantilever	DL	#/ft	LL	#/ft	
Right Cantilever	DL	#/ft	LL	#/ft	

Summary

Beam Design OK

Span= 5.75ft, Beam Width = 1.500in x Depth = 5.5in, Ends are Pin-Pin

Max Stress Ratio	0.377 : 1		
Maximum Moment	0.3 k-ft	Maximum Shear * 1.5	0.3 k
Allowable	0.9 k-ft	Allowable	1.4 k

Max. Positive Moment	0.34 k-ft	at	2.875 ft	Shear:	@ Left	0.24 k
Max. Negative Moment	0.00 k-ft	at	5.750 ft		@ Right	0.24 k
Max @ Left Support	0.00 k-ft			Camber:	@ Left	0.000 in
Max @ Right Support	0.00 k-ft				@ Center	0.032 in
Max. M allow	0.90				@ Right	0.000 in

				Reactions...			
fb	539.66 psi	fv	36.48 psi	Left DL	0.08 k	Max	0.24 k
Fb	1,430.54 psi	Fv	175.00 psi	Right DL	0.08 k	Max	0.24 k

Deflections

Center Span...	Dead Load	Total Load	Left Cantilever...	Dead Load	Total Load
Deflection	-0.022 in	-0.061 in	Deflection	0.000 in	0.000 in
...Location	2.875 ft	2.875 ft	...Length/Defl	0.0	0.0
...Length/Defl	3,187.0	1,134.41	**Right Cantilever...**		
Camber (using 1.5 * D.L. Defl) ...			Deflection	0.000 in	0.000 in
@ Center	0.032 in		...Length/Defl	0.0	0.0
@ Left	0.000 in				
@ Right	0.000 in				

Stress Calcs

Bending Analysis

Ck	29.015	Le	2.059 ft	Sxx	7.563 in3	Area	8.250 in2
Cf	1.000	Rb	7.773	Cl	0.995		

	Max Moment	Sxx Req'd	Allowable fb
@ Center	0.34 k-ft	2.85 in3	1,430.54 psi
@ Left Support	0.00 k-ft	0.00 in3	1,437.50 psi
@ Right Support	0.00 k-ft	0.00 in3	1,437.50 psi

Shear Analysis	@ Left Support	@ Right Support
Design Shear	0.30 k	0.30 k
Area Required	1.720 in2	1.720 in2
Fv: Allowable	175.00 psi	175.00 psi

Bearing @ Supports

Max. Left Reaction	0.24 k	Bearing Length Req'd	0.279 in
Max. Right Reaction	0.24 k	Bearing Length Req'd	0.279 in

Sputo and Lammert Engineering, LLC
10 SW 1st Avenue
Gainesville, FL 32601
Phone 352-378-0448
CA 6855

Title :
Dsgnr:
Description :

Job #
Date: 12:10PM, 25 AUG 10

Scope :

General Timber Beam

Description Wood Girders-(2) 2x6

General Information

Code Ref: 1997/2001 NDS, 2000/2003 IBC, 2003 NFPA 5000. Base allowables are user defined

Section Name	2-2x6	Center Span	4.00 ft	.....Lu	1.00 ft
Beam Width	3.000 in	Left Cantilever	ft	.....Lu	0.00 ft
Beam Depth	5.500 in	Right Cantilever	ft	.....Lu	0.00 ft
Member Type	Sawn	Southern Pine, No.2 2 -4 Thick, 5 -6 W			
Bm Wt. Added to Loads		Fb Base Allow	1,250.0 psi		
Load Dur. Factor	1.000	Fv Allow	175.0 psi		
Beam End Fixity	Pin-Pin	Fc Allow	565.0 psi		
Wood Density	40.000 pcf	E	1,600.0 ksi		

Full Length Uniform Loads

Center	DL	110.00 #/ft	LL	220.00 #/ft	
Left Cantilever	DL	#/ft	LL	#/ft	
Right Cantilever	DL	#/ft	LL	#/ft	

Summary

Beam Design OK

Span= 4.00ft, Beam Width = 3.000in x Depth = 5.5in, Ends are Pin-Pin

Max Stress Ratio	0.425 : 1		
Maximum Moment	0.7 k-ft	Maximum Shear * 1.5	0.8 k
Allowable	1.6 k-ft	Allowable	2.9 k

Max. Positive Moment	0.67 k-ft	at	2.000 ft	Shear:	@ Left	0.67 k
Max. Negative Moment	0.00 k-ft	at	0.000 ft		@ Right	0.67 k
Max @ Left Support	0.00 k-ft			Camber:	@ Left	0.000 in
Max @ Right Support	0.00 k-ft				@ Center	0.015 in
Max. M allow	1.57				@ Right	0.000 in

				Reactions...			
fb	530.91 psi	fv	47.21 psi	Left DL	0.23 k	Max	0.67 k
Fb	1,248.27 psi	Fv	175.00 psi	Right DL	0.23 k	Max	0.67 k

Deflections

Center Span...	Dead Load	Total Load	Left Cantilever...	Dead Load	Total Load
Deflection	-0.010 in	-0.029 in	Deflection	0.000 in	0.000 in
...Location	2.000 ft	2.000 ft	...Length/Defl	0.0	0.0
...Length/Defl	4,840.1	1,657.58	**Right Cantilever...**		
Camber (using 1.5 * D.L. Defl) ...			Deflection	0.000 in	0.000 in
@ Center	0.015 in		...Length/Defl	0.0	0.0
@ Left	0.000 in				
@ Right	0.000 in				

Stress Calcs

Bending Analysis

Ck	29.015	Le	2.059 ft	Sxx	15.125 in3	Area	16.500 in2
Cf	1.000	Rb	3.887	Cl	0.999		

	Max Moment	Sxx Req'd	Allowable fb
@ Center	0.67 k-ft	6.43 in3	1,248.27 psi
@ Left Support	0.00 k-ft	0.00 in3	1,250.00 psi
@ Right Support	0.00 k-ft	0.00 in3	1,250.00 psi

Shear Analysis	@ Left Support	@ Right Support
Design Shear	0.78 k	0.78 k
Area Required	4.451 in2	4.451 in2
Fv: Allowable	175.00 psi	175.00 psi

Bearing @ Supports

Max. Left Reaction	0.67 k	Bearing Length Req'd	0.395 in
Max. Right Reaction	0.67 k	Bearing Length Req'd	0.395 in

Effective March 1, 2009

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

FORM 1100B-08 — **Residential Component Prescriptive Method B** — ALL CLIMATE ZONES

Compliance with Method B of Chapter 11 of the *Florida Building Code, Residential*, or Subchapter 13-6 of the *Florida Building Code, Building*, may be demonstrated by the use of Form 1100B for single-and multiple-family residences of three stories or less in height, additions to existing residential buildings, renovations to existing residential buildings, new heating, cooling, and water heating systems in existing buildings, and site-added components of manufactured homes and manufactured buildings. To comply, a building must meet or exceed all of the energy efficiency requirements on Table 11B-1 and all applicable mandatory requirements summarized in Table 11B-2 of this form. If a building does not comply with this method, it may still comply under Method A of Chapter 11 or Subchapter 13-6 of the applicable code.

PROJECT NAME: AND ADDRESS: Colson Res	BUILDER: Colson
	PERMITTING OFFICE:
OWNER:	PERMIT NO.: JURISDICTION NO.: 221000

1. New construction including additions which incorporate any of the following features cannot comply using this method: skylights or other nonvertical roof glass, glass areas in excess of 16 percent of conditioned floor area, and electric resistance heat (See Notes to Table 11B-1 on page 2).
2. Fill in all the applicable spaces of the "To Be Installed" column on Table 11B-1 with the information requested. All "To Be Installed" values must be equal to or more efficient than the required levels.
3. Complete page 1 based on the "To Be Installed" column information.
4. Read "Minimum Requirements for All Packages", Table 11B-2 and check each box to indicate your intent to comply with all applicable items.
5. Read, sign and date the "Prepared By" certification statement at the bottom of page 1. The owner or owner's agent must also sign and date the form.

	Please Print	CK
1. New construction, addition, or existing building	1. Addition	
2. Single-family detached or multiple-family attached	2. Single	
3. If multiple-family–No. of units covered by this submission	3. 1	
4. Is this a worst case? (yes/no)	4. Yes	
5. Conditioned floor area (sq. ft.)	5. 288	
6. Glass type and area:		
a. U-factor	6a. .65	
b. SHGC	6b. .35	
c. Glass area	6c. 40 sq. ft.	
7. Percentage of glass to floor area	7. 13 %	
8. Floor type, area or perimeter, and insulation:		
a. Slab-on-grade (*R*-value)	8a. R= ___ ___ lin. ft.	
b. Wood, raised (*R*-value)	8b. R= ___ ___ sq. ft.	
c. Wood, common (*R*-value)	8c. R= 19 288 sq. ft.	
d. Concrete, raised (*R*-value)	8d. R= ___ ___ sq. ft.	
e. Concrete, common (*R*-value)	8e. R= ___ ___ sq. ft.	
9. Wall type, area and insulation:		
a. Exterior: 1. Masonry (Insulation R-value)	9a-1. R= ___ ___ sq. ft.	
2. Wood frame (Insulation *R*-value)	9a-2. R= 13 390 sq. ft.	
b. Adjacent: 1. Masonry (Insulation *R*-value)	9b-1. R= ___ ___ sq. ft.	
2. Wood frame (Insulation *R*-value)	9b-2. R= ___ ___ sq. ft.	
10. Ceiling type, area and insulation:		
a. Under attic (Insulation *R*-value)	10a. R= 30 sq. ft. 288	
b. Single assembly (Insulation *R*-value)	10b. R= ___ ___ sq. ft.	
11. Air distribution system: Duct insulation, location	11a. R= 6 existing	
Test report required if duct in unconditioned space	11b. Test report attached? Yes (No)	
12. Cooling system:	12a. Type: Existing	
(Types: central, room unit, package terminal A.C., gas, none)	12b. SEER/EER: ___	
	12c. Capacity: ___	
13. Heating system:	13a. Type: Existing	
(Types: heat pump, elec. strip, nat. gas, LP-Gas, gas h.p., room or PTAC, none)	13b. HSPF/COP/AFUE: ___	
	13c. Capacity: ___	
14. Programmable thermostat installed on HVAC systems:	14. Yes (No)	
15. Hot water system:	15a. Type: Existing	
(Types: elec., nat. gas, LP-gas, solar, heat rec., ded. heat pump, other, none)	15b. EF: ___	

I hereby certify that the plans and specifications covered by the calculation are in compliance with the Florida Energy Code.

PREPARED BY: Mike DATE: 9-7-10

I hereby certify that this building is in compliance with the Florida Energy Code.

OWNER AGENT: ___ DATE: ___

Review of plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed, this building will be inspected for compliance in accordance with Section 553.908, F.S.

BUILDING OFFICIAL: ___

DATE: ___

TABLE 11B-1 MINIMUM REQUIREMENTS (See Note 1) All Climate Zones

BUILDING COMPONENT	PERFORMANCE CRITERIA	INSTALLED VALUES:
Windows (see Note 2).	U-Factor = 0.65 SHGC = 0.35 % of CFA < = 16%	U-Factor = SHGC = % of CFA =
Exterior door type	Wood or insulated	Type:
Walls – Ext. and Adj. (see Note 3):		
Frame	R-13	R-Value =
Mass (see Note 3)		
Interior of wall:	R-6	R-Value =
Exterior of wall:	R-4	R-Value =
Electric resistance heat (See Note 10)	Not allowed	
Ceilings (see Notes 3 & 4)	R=30	R-Value =
Floors: Slab-on-grade	No requirement	R-Value =
Over unconditioned spaces (see Note 3)	R-13	
Hot water systems (storage type)		
Electric (see Note 5):	40 gal; EF = 0.92	Gallons =
	50 gal; EF = 0.90	EF =
Gas fired (see Note 6):	40 gal; EF = 0.59	Gallons =
	50 gal; EF = 0.58	EF =
Air conditioning systems (see Note 7)	SEER = 13.0	SEER =
Heat pump systems (see Note 8)	SEER = 13.0	SEER =
	HSPF = 7.7	HSPF =
Gas furnaces	AFUE = 78%	AFUE =
Oil furnaces	AFUE = 78%	AFUE =
Programmable thermostat (see Note 10)	Must be installed on all HVAC systems.	Installed? Yes No
Ductwork: (see Note 9)		Location:
Unconditioned space	R-6, TESTED	Unconditioned space
Conditioned space	NA	R-Value =
Unvented attic assembly per R806.4 with insulation at the roof plane	R-4.2	Test report:
		Conditioned space
		R-Value =
		(No test report required)
Air Handler location:		
Unconditioned attic or garage	Requires test report	Location:
Conditioned space or		Test report:
Unvented attic assembly per R806.4 with insulation at the roof plane	No duct test required	

(1) Each component present in the As-Built home must meet or exceed each of the applicable performance criteria in order to comply with this code using this method; otherwise Method A compliance must be used.

(2) Windows and doors qualifying as glazed fenestration areas must comply with both the maximum *U*-Factor and the maximum SHGC (Solar Heat Gain Coefficient) criteria and have a maximum total window area equal to or less than 16% of the conditioned floor area (CFA), otherwise Method A must be used for compliance. **Exceptions:** 1. Additions of 600 square feet (56 m^2) or less may have maximum glass to CFA of 50 percent. 2. Renovations with new windows under ≥ 2 foot overhang whose lower edge does not extend further than 8 feet from the overhang may have tinted glazing or double-pane clear glazing. Replacement skylights installed in renovations shall be doublepaned or single paned with a diffuser.

(3) *R*-Values are for insulation material only as applied in accordance with manufacturers' installation instructions. For mass walls, the "interior of wall" requirement (R-6) must be met except it at least 50% of the R-4 insulation value required for the "exterior of wall" is installed exterior of, or integral to, the wall.

(4) Attic knee walls shall be insulated to same level as ceilings and shall have a positive means of maintaining insulation in place. Such means may include rigid insulation board or air barrier sheet materials adequately fastened to the attic sides of knee wall framing materials.

(5) For other electric storage volumes, minimum EF = 0.97 - (0.00132 * volume).

(6) For other natural gas storage volumes, minimum EF = 0.67 - (0.0019 * volume).

(7) For all conventional units with capacities greater than 30,000 Btu/hr. For Small-Duct, High-Velocity units, Space Constrained units, and units with capacities less than 30,000 Btu/hr see Table 13-607.AB.3.2A of the *Florida Building Code, Building*, or Table N1107.AB.3.2A of the *Florida Building Code, Residential*.

(8) For all conventional units with capacities greater than 30,000 Btu/hr. For Small-Duct, High-Velocity units, Space Constrained units, and units with capacities less than 30,000 Btu/hr see Table 13-607.AB.3.2B of the *Florida Building Code, Building*, or Table N1107.AB.3.2B of the *Florida Building Code, Residential*.

(9) All ducts and air handlers shall be either located in conditioned space or tested by a Class 1 BERS rater to be "substantially" leak free. "Substantially leak free" shall mean distribution system air leakage to outdoors no greater than 3 cfm per 100 square feet of conditioned floor area at a pressure differential of 25 Pascal (0.10 in. wc.) across the entire air distribution system, including the manufacturer's air handler enclosure. **Exception:** New or replacement ducts installed onto an existing air distribution system as part of an addition or renovation. Such ducts shall either be insulated to R-6 or be installed in conditioned space.

10) The prohibition on electric resistance heat and the requirement for programmable thermostats do not apply to additions, renovations, and new heating systems installed in existing buildings.

TABLE 11B-2 MINIMUM REQUIREMENTS FOR ALL PACKAGES

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Exterior Joints & Cracks	N1106.AB.1.2	To be caulked, gasketed, weather-stripped or otherwise sealed.	
Exterior Windows & Doors	N1106.AB.1.1	Max .3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	
Sole & Top Plates	N1106.AB.1.2.1	Sole plates and penetrations through top plates of exterior walls must be sealed.	
Recessed Lighting	N1106.AB.1.2.4	Type IC rated with no penetrations (two alternatives allowed).	
Multistory Houses	N1106.AB.1.2.5	Air barrier on perimeter of floor cavity between floors.	
Exhaust Fans	N1106.AB.1.3	Exhaust fans vented to unconditioned space shall have dampers, except for combustion devices with integral exhaust ductwork.	
Water Heaters	N1112.AB.3	Comply with efficiency requirements in Table N1112.AB.3. Switch or clearly marked circuit breaker electric or cutoff (gas) must be provided. External or built-in heat trap required for vertical pipe risers.	
Swimming Pools & Spas	N1112.AB.2.3.4	Spas & heated pools must have covers (except solar heated). Noncommercial pools must have a pump timer. Gas spa & pool heaters must have minimum thermal efficiency of 78%. Heat pump pool heaters shall have a minimum COP of 4.0.	
Hot Water Pipes	N1112.AB.5	Insulation is required for hot water circulating systems (including heat recovery units).	
Shower Heads	N1112.AB.2.4	Water flow must be restricted to no more than 2.5 gallons per minute at 80 psig.	
HVAC Duct Construction, Insulation & Installation	N1110.AB	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section N1110.AB. Ducts in attics must be insulated to a minimum of R-6.	
HVAC Controls	N1107.AB.2	Separate readily accessible manual or automatic thermostat for each system.	

RE: FOX-18X16 -

MiTek Industries, Inc.
6904 Parke East Boulevard
Tampa, FL 33610-4115

Site Information:
Customer Info: FOXWOOD ENTERPRISES Model: 18 X 16
Lot/Block: . Subdivision: .
Address: .
City: LAKE CITY State: FLORIDA

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: FBC2007 Design Program: OnLine Plus 27.0.003
Wind Code: ASCE 7-05 Wind Speed: 120 mph
Roof Load: 40.0 psf

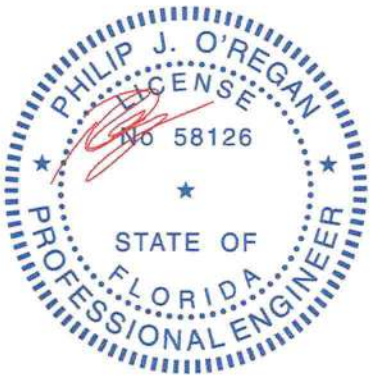
This package includes 1 individual, dated Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date
1	T3829065	A1	8/4/010

The truss drawing(s) referenced above have been prepared by MiTek Industries, Inc. under my direct supervision based on the parameters provided by Mayo Truss Company, Inc..

Truss Design Engineer's Name: ORegan, Philip
My license renewal date for the state of Florida is February 28, 2011.

NOTE: 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 Sec. 2.

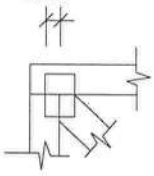


FL Cert. 6634
August 4,2010

ORegan, Philip 1 of 1

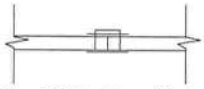
ONLINE PLUS GENERAL NOTES & SYMBOLS

PLATE LOCATION



Center plates on joints unless otherwise noted in plate list or on drawing. Dimensions are given in inches (i.e. 1 1/2" or 1.5") or IN-16ths (i.e. 108)

FLOOR TRUSS SPLICE (3X2, 4X2, 6X2)



(W) = Wide Face Plate
(N) = Narrow Face Plate

LATERAL BRACING

Designates the location for continuous lateral bracing (CLB) for support of individual truss members only. CLBs must be properly anchored or restrained to prevent simultaneous buckling of adjacent truss members.

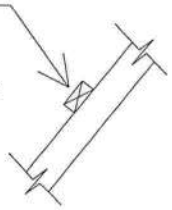
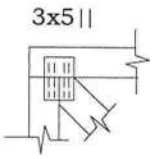


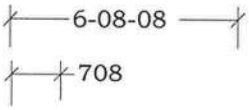
PLATE SIZE AND ORIENTATION

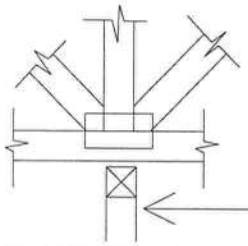


The first dimension is the width measured perpendicular to slots. The second dimension is the length measured parallel to slots. Plate orientation, shown next to plate size, indicates direction of slots in connector plates.

DIMENSIONS

All dimensions are shown in FT-IN-SX (i.e. 6'-8.5" or 6-08-08). Dimensions less than one foot are shown in IN-SX only (i.e. 708).





W = Actual Bearing Width (IN-SX)
R = Reaction (lbs.)
U = Uplift (lbs.)

BEARING

When truss is designed to bear on multiple supports, interior bearing locations should be marked on the truss. Interior support or temporary shoring must be in place before trusses are installed. If necessary, shim bearings to assure solid contact with truss.

Metal connector plates shall be applied on both faces of truss at each joint. Center the plates, unless indicated otherwise. No loose knots or wane in plate contact area. Splice only where shown. Overall spans assume 4" bearing at each end, unless indicated otherwise. Cutting and fabrication shall be performed using equipment which produces snug-fitting joints and plates. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication and the attached truss designs are not applicable for use with fire retardant lumber and some preservative treatments. Nails specified on Truss Design Drawings refer to common wire nails, except as noted. The attached design drawings were prepared in accordance with " National Design Specifications for Wood Construction" (AF & PA), " National Design Standard for Metal Plate Connected Wood Truss Construction" (ANSI/TPI 1), and HUD Design Criteria for Trussed Rafters.

Mitek Industries Inc. bears no responsibility for the erection of trusses, field bracing or permanent truss bracing. Refer to "Building Component Safety Information" (BCSI 1) as published by Truss Plate Institute, 218 North Lee Street, Suite 312, Alexandria, Virginia 22314. Persons erecting trusses are cautioned to seek professional advice concerning proper erection bracing to prevent toppling and " dominoing ". Care should be taken to prevent damage during fabrication, storage, shipping and erection. Top and bottom chords shall be adequately braced in the absence of sheathing or rigid ceiling, respectively. It is the responsibility of others to ascertain that design loads utilized on these drawings meet or exceed the actual dead loads imposed by the structure and the live loads imposed by the local building code or historical climatic records. When truss hangers are specified on the Truss Design Drawing, they must be installed per manufacturer's details and specifications.

FURNISH A COPY OF THE ATTACHED TRUSS DESIGN DRAWINGS TO ERECTION CONTRACTOR. IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER TO REVIEW THESE DRAWINGS AND VERIFY THAT DATA, INCLUDING DIMENSIONS & LOADS, CONFORM TO ARCHITECTURAL PLAN / SPECS AND THE TRUSS PLACEMENT DIAGRAM FURNISHED BY THE TRUSS MANUFACTURER.

MiTek®
POWER TO PERFORM.™

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

Tel: 813-972-1135
Fax: 813-971-6117

COLUMBIA COUNTY BUILDING DEPARTMENT
RESIDENTIAL CHECK LIST REQUIRMENTS

MINIMUM PLAN REQUIREMENTS FOR THE FLORIDA BUILDING CODE RESIDENTIAL 2007 ONE (1) AND TWO (2) FAMILY DWELLINGS

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

ALL BUILDING PLANS MUST INDICATE COMPLIANCE with the Current 2007 FLORIDA BUILDING CODES RESIDENTIAL. ALL PLANS OR DRAWINGS SHALL PROVIDE CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION FOR ONE-AND-TWO FAMILY DWELLINGS.

FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEEDS ARE PER FIGURE R301.2(4) of the FLORIDA BUILDING CODES RESIDENTIAL (Florida Wind speed map) **SHALL BE USED.**

WIND SPEED LINE SHALL BE DEFINED AS FOLLOWS: THE CENTERLINE OF INTERSTATE 75.

ALL BUILDINGS CONSTRUCTED EAST OF SAID LINE SHALL BE -------- 100 MPH
ALL BUILDINGS CONSTRUCTED WEST OF SAID LINE SHALL BE --------110 MPH
NO AREA IN COLUMBIA COUNTY IS IN A WIND BORNE DEBRIS REGION

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL			**Items to Include- Each Box shall be Circled as Applicable**		
				Yes	**No**	**N/A**
1	Two (2) complete sets of plans containing the following:			✓		
2	All drawings must be clear, concise, drawn to scale, details that are not used shall be marked void					
3	Condition space (Sq. Ft.) 288		Total (Sq. Ft.) under roof	IIIIIII	IIIIIII	IIIII

Designers name and signature shall be on all documents and a licensed architect or engineer, signature and official embossed seal shall be affixed to the plans and documents as per the FLORIDA BUILDING CODES RESIDENTIAL R101.2.1

Site Plan information including:

4	Dimensions of lot or parcel of land	✓		
5	Dimensions of all building set backs	✓		
6	Location of all other structures (include square footage of structures) on parcel, existing or proposed well and septic tank and all utility easements.	✓		
7	Provide a full legal description of property.	✓		

Wind-load Engineering Summary, calculations and any details required

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable		
8	Plans or specifications must show compliance with FBCR Chapter 3	IIIIII YES	IIIII NO	IIIIII N/A
9	Basic wind speed (3-second gust), miles per hour	✓		
10	(Wind exposure – if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated)	✓		
11	Wind importance factor and nature of occupancy	✓		
12	The applicable internal pressure coefficient, Components and Cladding	✓		
13	The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component, cladding materials not specifally designed by the registered design professional.	✓		

Elevations Drawing including:

14	All side views of the structure	✓		
15	Roof pitch	✓		
16	Overhang dimensions and detail with attic ventilation	✓		
17	Location, size and height above roof of chimneys			✓
18	Location and size of skylights with Florida Product Approval			✓
18	Number of stories	✓		
20A	Building height from the established grade to the roofs highest peak	✓		

Floor Plan including:

20	Dimensioned area plan showing rooms, attached garage, breeze ways, covered porches, deck, balconies			✓
21	Raised floor surfaces located more than 30 inches above the floor or grade			✓
22	All exterior and interior shear walls indicated	✓		
23	Shear wall opening shown (Windows, Doors and Garage doors)	✓		
24	Emergency escape and rescue opening shown in each bedroom (net clear opening shown)			✓
25	Safety glazing of glass where needed	✓		
26	Fireplaces types (gas appliance) (vented or non-vented) or wood burning with Hearth (see chapter 10 of FBCR)			✓
27	Stairs with dimensions (width, tread and riser and total run) details of guardrails, Handrails (see FBCR SECTION 311)			✓
28	Identify accessibility of bathroom (see FBCR SECTION 322)			✓

All materials placed within opening or onto/into exterior walls, soffits or roofs shall have Florida product approval number and mfg. installation information submitted with the plan (see Florida product approval form)

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable

FBCR 403: Foundation Plans

		YES	NO	N/A
29	Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.	✓		
30	All posts and/or column footing including size and reinforcing	✓		
31	Any special support required by soil analysis such as piling.			✓
32	Assumed load-bearing valve of soil_____ Pound Per Square Foot			✓
33	Location of horizontal and vertical steel, for foundation or walls (include # size and type)	✓		

FBCR 506: CONCRETE SLAB ON GRADE

34	Show Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)			✓
35	Show control joints, synthetic fiber reinforcement or welded fire fabric reinforcement and Supports			✓

FBCR 320: PROTECTION AGAINST TERMITES

36	Indicate on the foundation plan if soil treatment is used for subterranean termite prevention or submit other approved termite protection methods. **Protection shall be provided by registered termiticides**	✓		

FBCR 606: Masonry Walls and Stem walls (load bearing & shear Walls)

37	Show all materials making up walls, wall height, and Block size, mortar type	✓		
38	Show all Lintel sizes, type, spans and tie-beam sizes and spacing of reinforcement	✓		

Metal frame shear wall and roof systems shall be designed, signed and sealed by Florida Prof. Engineer or Architect

Floor Framing System: First and/or second story

39	Floor truss package shall including layout and details, signed and sealed by Florida Registered Professional Engineer			✓
40	Show conventional floor joist type, size, span, spacing and attachment to load bearing walls, stem walls and/or priers	✓		
41	Girder type, size and spacing to load bearing walls, stem wall and/or priers	✓		
42	Attachment of joist to girder	✓		
43	Wind load requirements where applicable	✓		
44	Show required under-floor crawl space	✓		
45	Show required amount of ventilation opening for under-floor spaces	✓		
46	Show required covering of ventilation opening	✓		
47	Show the required access opening to access to under-floor spaces	✓		
	Show the sub-floor structural panel sheathing type, thickness and fastener schedule on the edges &	✓		

48	intermediate of the areas structural panel sheathing	✓		
49	Show Draftstopping, Fire caulking and Fire blocking	✓		
50	Show fireproofing requirements for garages attached to living spaces, per FBCR section 309			✓
51	Provide live and dead load rating of floor framing systems (psf).			✓

FBCR CHAPTER 6 WOOD WALL FRAMING CONSTRUCTION

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable		
		YES	NO	N/A
52	Stud type, grade, size, wall height and oc spacing for all load bearing or shear walls	✓		
53	Fastener schedule for structural members per table FBCR 602.3 are to be shown	✓		
54	Show Wood structural panel's sheathing attachment to studs, joist, trusses, rafters and structural members, showing fastener schedule attachment on the edges & intermediate of the areas structural panel sheathing	✓		
55	Show all required connectors with a max uplift rating and required number of connectors and oc spacing for continuous connection of structural walls to foundation and roof trusses or rafter systems	✓		
56	Show sizes, type, span lengths and required number of support jack studs, king studs for shear wall opening and girder or header per FBCR Table 502.5 (1)	✓		
57	Indicate where pressure treated wood will be placed			
58	Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing edges & intermediate areas	✓		
59	A detail showing gable truss bracing, wall balloon framing details or/ and wall hinge bracing detail	✓		

FBCR :ROOF SYSTEMS:

60	Truss design drawing shall meet section FBCR 802.10 Wood trusses	✓		
61	Include a layout and truss details, signed and sealed by Florida Professional Engineer	✓		
62	Show types of connector's assemblies' and resistance uplift rating for all trusses and rafters	✓		
63	Show gable ends with rake beams showing reinforcement or gable truss and wall bracing details	✓		
64	Provide dead load rating of trusses	✓		

FBCR 802:Conventional Roof Framing Layout

65	Rafter and ridge beams sizes, span, species and spacing			✓
66	Connectors to wall assemblies' include assemblies' resistance to uplift rating			✓
67	Valley framing and support details			✓
68	Provide dead load rating of rafter system			✓

FBCR Table 602,3(2) & FBCR 803 ROOF SHEATHING

69	Include all materials which will make up the roof decking, identification of structural panel sheathing, grade, thickness	✓		
70	Show fastener Size and schedule for structural panel sheathing on the edges & intermediate areas	✓		

FBCR ROOF ASSEMBLIES FRC Chapter 9

71	Include all materials which will make up the roof assembles covering			
72	Submit Florida Product Approval numbers for each component of the roof assembles covering			

FBCR Chapter 11 Energy Efficiency Code for residential building

Residential construction shall comply with this code by using the following compliance methods in the FBCR chapter11 Residential buildings compliance methods. *Two of the required forms are to be submitted, showing dimensions condition area equal to the total condition living space area*

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable		
		YES	NO	N/A
73	Show the insulation R value for the following areas of the structure	✓		
74	Attic space	✓		
75	Exterior wall cavity	✓		
76	Crawl space	✓		

HVAC information

77	Submit two copies of a Manual J sizing equipment or equivalent computation study			✓
78	Exhaust fans locations in bathrooms	✓		
79	Show clothes dryer route and total run of exhaust duct			✓

Plumbing Fixture layout shown

80	All fixtures waste water lines shall be shown on the foundation plan	✓		
81	Show the location of water heater			✓

Private Potable Water

82	Pump motor horse power			✓
83	Reservoir pressure tank gallon capacity			✓
84	Rating of cycle stop valve if used			✓

Electrical layout shown including

85	Switches, outlets/receptacles, lighting and all required GFCI outlets identified	✓		
86	Ceiling fans			✓
87	Smoke detectors & Carbon dioxide detectors			✓
88	Service panel, sub-panel, location(s) and total ampere ratings			✓
89	On the electrical plans identify the electrical service overcurrent protection device for the main electrical service. This device shall be installed on the exterior of structures to serve as a disconnecting means for the utility company electrical service. Conductors used from the exterior disconnecting means to a panel or sub panel shall have four-wire conductors, of which one conductor shall be used as an equipment ground. Indicate if the utility company service entrance cable will be of the overhead or underground type.			✓

90	Appliances and HVAC equipment and disconnects			✓
91	Arc Fault Circuits (AFCI) in bedrooms			✓

Disclosure Statement for Owner Builders *If you as the applicant will be acting as an owner/builder under section 489.103(7) of the Florida Statutes, submit the required owner builder disclosure statement form.*

Notice Of Commencement

A notice of commencement form **recorded** in the Columbia County Clerk Office is required to be filed with the building department Before Any Inspections can be preformed.

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

		YES	NO	N/A
92	**Building Permit Application** A current Building Permit Application form is to be completed and submitted for all residential projects	✓		
93	**Parcel Number** The parcel number (Tax ID number) from the Property Appraiser (386) 758-1084 is required. A copy of property deed is also requested	✓		
94	**Environmental Health Permit or Sewer Tap Approval** A copy of a approved Columbia County Environmental Health (386) 758-1058			✓
95	**City of Lake City** A permit showing an approved waste water sewer tap			✓
96	**Toilet facilities shall be provided for all construction sites**			
97	**Town of Fort White** (386) 497-2321 If the parcel in the application for building permit is within the Corporate city limits of Fort White an approval land use development letter issued by the Town of Fort is required to be submitted with the application for a building permit.			✓
98	**Flood Information:** All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting a application to this office. Any project located within a flood zone where the base flood elevation (100 year flood) has been established shall meet the requirements of Section 8.5.2 of the Columbia County Land Development Regulations. Any project located within a flood zone where the base flood elevation has not been established (Zone A) shall meet the requirements of Section 8.5.3 of the Columbia County Land Development Regulations			✓
99	CERTIFIED FINISHED FLOOR ELEVATIONS will be required on any project where the base flood elevation (100 year flood) has been established			✓
100	A development permit will also be required. Development permit cost is **$50.00**			
101	**Driveway Connection:** If the property does not have an existing access to a public road, then an application for a culvert permit (**$25.00**) must be made. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver (**$50.00**). All culvert waivers are sent to the Columbia County Public Works Department for approval or denial.			✓
102	**911 Address:** If the project is located in an area where a 911 address has not been issued, then application for a 911address must be applied for and **received** through the Columbia County Emergency Management Office of 911 Addressing Department (386) 758-1125	✓		

Section R101.2.1 of the Florida Building Code Residential:

The provisions of Chapter 1, Florida Building Code, Building shall govern the administration and enforcement of the Florida Building Code, Residential.

Section 105 of the Florida Building Code defines the:

Time limitation of application.

An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application has been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated.

Single-family residential dwelling.

Section 105.3.4 A building permit for a single-family residential dwelling must be issued within 30 working days of application therefor unless unusual circumstances require a longer time for processing the applicati or unless the permit application fails to satisfy the Florida Building Code or the enforcing agency's laws or ordinances.

Permit intent.

Section 105.4.1: A permit issued shall be constructed to be a license to proceed with the work and not as authority to violate, cancel, alter or set aside any of the provisions of the technical codes, nor shall issuance a permit prevent the building official from thereafter requiring a correction of errors in plans, construction or violations of this code. Every permit issued shall become invalid unless the work authorized by such permit is commenced within six months after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of six months after the time the work is commenced.

If work has commenced.

Section 105.4.1.1: If work has commenced and the permit is revoked, becomes null and void, or expires because of lack of progress or abandonment, a new permit covering the proposed construction shall be obtained before proceeding with the work.

New Permit.

Section 105.4.1.2: If a new permit is not obtained within 180 days from the date the initial permit became nu and void, the building official is authorized to require that any work which has been commenced or completed be removed from the building site. Alternately, a new permit may be issued on application, providing the work in place and required to complete the structure meets all applicable regulations in effect at the time the initial permit became null and void and any regulations which may have become effective between the date of expiration and the date if issuance of the new permit.

Work Shall Be:

Section 105.4.1.3: Work shall be considered to be in active progress when the permit has received an approved inspection within 180 days. This provision shall not be applicable in case of civil commotion or strike or when the building work is halted due directly to judicial injunction, order or similar process.

The Fee:

Section 105.4.1.4: The fee for renewal reissuance and extension of a permit shall be set forth by the administrative authority.

When the submitted application is approved for permitting the applican will be notified by phone as to the date and time a building permit will b prepared and issued by the Columbia County Building & Zoning Department

PRODUCT APPROVAL SPECIFICATION SHEET

Location:_____ **Project Name:**_____

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and the product approval number(s) on the building components listed below if they will be utilized on the construction project for which you are **applying for a building permit on or after April 1, 2004**. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. More information about statewide product approval can be obtained at www.floridabuilding.org

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
A. EXTERIOR DOORS			
1. Swinging			
2. Sliding			
3. Sectional			
4. Roll up			
5. Automatic			
6. Other			
B. WINDOWS			
1. Single hung	Custom Window Systems	2 - 3° x 5° vinyl	4091
2. Horizontal Slider			
3. Casement			
4. Double Hung			
5. Fixed			
6. Awning			
7. Pass -through			
8. Projected			
9. Mullion			
10. Wind Breaker			
11 Dual Action			
12. Other			
C. PANEL WALL			
1. Siding			
2. Soffits	Alcoa	vent soffit	SL 5543
3. EIFS			
4. Storefronts			
5. Curtain walls			
6. Wall louver			
7. Glass block			
8. Membrane			
9. Greenhouse			
10. Other			
D. ROOFING PRODUCTS			
1. Asphalt Shingles	Tamko		1956.3
2. Underlayments			
3. Roofing Fasteners			
4. Non-structural Metal Rf			
5. Built-Up Roofing			
6. Modified Bitumen			
7. Single Ply Roofing Sys			
8. Roofing Tiles			
9. Roofing Insulation			
10. Waterproofing			
11. Wood shingles /shakes			
12. Roofing Slate			

Category/Subcategory (cont.)	Manufacturer	Product Description	Approval Number(s)
13. Liquid Applied Roof Sys			
14. Cements-Adhesives – Coatings			
15. Roof Tile Adhesive			
16. Spray Applied Polyurethane Roof			
17. Other			
E. SHUTTERS			
1. Accordion			
2. Bahama			
3. Storm Panels			
4. Colonial			
5. Roll-up			
6. Equipment			
7. Others			
F. SKYLIGHTS			
1. Skylight			
2. Other			
G. STRUCTURAL COMPONENTS			
1. Wood connector/anchor			
2. Truss plates			
3. Engineered lumber			
4. Railing			
5. Coolers-freezers			
6. Concrete Admixtures			
7. Material			
8. Insulation Forms			
9. Plastics			
10. Deck-Roof			
11. Wall			
12. Sheds			
13. Other			
H. NEW EXTERIOR ENVELOPE PRODUCTS			
1.			
2.			

The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of these products, the following information must be available to the inspector on the jobsite; 1) copy of the product approval, 2) the performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturers installation requirements.

I understand these products may have to be removed if approval cannot be demonstrated during inspectic

Alex B Colson

Contractor or Contractor's Authorized Agent Signature

Alex B Colson 9/10/10

Print Name Date

Permit # **(FOR STAFF USE ONLY)**

Sputo and Lammert Engineering, LLC
10 SW 1st Avenue
Gainesville, FL 32601
Phone 352-378-0448
CA 6855

Title :
Dsgnr:
Description :

Job #
Date: 12:10PM, 25 AUG 10

Scope :

Description Wood Girders-(2) 2x6

Query Values

M, V, & D @ Specified Locations		Moment	Shear	Deflection
@ Center Span Location =	0.00 ft	0.00 k-ft	0.67 k	0.0000 in
@ Right Cant. Location =	0.00 ft	0.00 k-ft	0.00 k	0.0000 in
@ Left Cant. Location =	0.00 ft	0.00 k-ft	0.00 k	0.0000 in

Sputo and Lammert Engineering, LLC
10 SW 1st Avenue
Gainesville, FL 32601
Phone 352-378-0448
CA 6855

Title :
Dsgnr:
Description :

Job #
Date: 12:09PM, 25 AUG 10

Scope :

General Timber Beam

Description Wood Joists-2x6 @ 16" o.c.

Query Values

M, V, & D @ Specified Locations		Moment	Shear	Deflection
@ Center Span Location =	0.00 ft	0.00 k-ft	0.24 k	0.0000 in
@ Right Cant. Location =	0.00 ft	0.00 k-ft	0.00 k	0.0000 in
@ Left Cant. Location =	0.00 ft	0.00 k-ft	0.00 k	0.0000 in

SHEARWALL CAPACITIES PER 2007 FBC

NAIL = 8d COMMON OR 0.131" POWER NAIL
SHEATHING = 7/16" OSB

6"/12"	4"/12"	3"/12"	
260	380	490	Per Table 2306.4.1, using 15/32" sheathing as allowed by para 2306.4.1
0.82	0.82	0.82	1.00 = Pine, 0.82 = SPF
1.4	1.4	1.4	Increase per para 2306.4.1
298	436	563	

SHEARWALL CAPACITIES PER 2001 SBC

NAIL = 8d COMMON OR 0.131" POWER NAIL
SHEATHING = 7/16" OSB

6"/12"	4"/12"	3"/12"	
260	380	490	Per Table 2310.2B, using 15/32" sheathing as allowed by para 2310.4.6
1	1	1	1.00 = Pine, 0.82 = SPF
1.4	1.4	1.4	Increase per para 2313.2.5
364	532	686	

HURRICANE CLIPS

CLIP	HARDWARE	PINE	SPRUCE
Simpson H10	(16) 8d x 1-1/2" nail	990	850
Simpson H2.5	(10) 8d x 1-1/2" nail	415	365

HURRICANE CLIPS (Truss at 24" on center)
(Includes 6 psf dead load)

COMMON TRUSS	SPAN	O'HANG	END ZONE UPLIFT	INT. ZONE UPLIFT
T1	18	2	-343	-215
T2	0	0	0	0
T3	0	0	0	0
T4	0	0	0	0

JACK TRUSS	SPAN	O'HANG	UPLIFT
J1	0	0	0
J2	0	0	0

#1 HIP TRUSS	SPAN	O'HANG	SETBACK	UPLIFT
H1	0	0	7	0
H2	0	0	9	0
H3	0	0	11	0

WALL TENSION TIE USING SHEATHING

WALL TO WALL	O'HANG	UPLIFT LOAD		3/8" MINIMUM SHEATHING 8d COMMON NAIL SPACING SPRUCE	PINE	
18	2	108	PLF	10.5	13.1	INCHES

ANCHOR BOLT SPACING

WALL TO WALL	UPLIFT LOAD	1634 2" ROUND WASHER		3173 3" SQ WASHER	
18	108	182.4	IN. MAX	354.2	IN. MAX

SHEARWALL ANCHORAGE

TRANSVERSE			1634 2" ROUND WASHER	3173 3" SQ WASHER
CHORD FORCE =	1101	LBS		
ANCHOR BOLT =	48	INCHES O.C.		
REQUIRED FORCE =	1316	LBS	OK	OK
LONGITUDINAL				
CHORD FORCE =	822	LBS		
REQUIRED FORCE =	822	LBS	OK	OK

USE SIMPSON META18 MINS 6" FLOOR FRAMING
EQUAL TO META12 UPLIFT CAPACITY = 1450#
1450# > 1316# ✓

WIND LOAD DESIGN PER 2007 FBC (PER ASCE 7-05)

SINGLE STORY BUILDING

BUILDING DIMENSIONS:

L =	16	FEET		
W =	18	FEET		
EAVE =	8.75	FEET		
PITCH =	4.5	/12 =	20.6	DEG.
O'HANG =	2	FEET		
RIDGE =	12.125	FEET		
MEAN RF =	10.4375	FEET		

WIND EXPOSURE:

VELOCITY =	100	MPH
I =	1.00	(IMPORTANCE FACTOR)
EXPOSURE =	B	
ADJUSTMENT	1.00	(PER FIGURE 6-2)

MWFRS PRESSURE PER FIGURE 6-2 (BASE PRESSURE W/O ADJUSTMENT)
(PRESSURES IN PSF)

TRANSVERSE WIND DIRECTION

	END ZONE		INTERIOR ZONE	
HORIZONTAL LOADS				
	WALL	ROOF	WALL	ROOF
	22.0	-5.8	14.6	-3.2
VERTICAL LOADS				
	WINDWD	LEEWD	WINDWD	LEEWD
	-19.1	-13.3	-13.3	-10.1
O'HANG	-26.7		-20.9	

LONGITUDINAL WIND DIRECTION

	END ZONE		INTERIOR ZONE	
HORIZONTAL LOADS				
	WALL	ROOF	WALL	ROOF
	15.9	-8.2	10.5	-4.9
VERTICAL LOADS				
	WINDWD	LEEWD	WINDWD	LEEWD
	-19.1	-10.8	-13.3	-8.4
O'HANG	-26.7		-20.9	

CALCULATE EDGE STRIPS:

1.8	FEET	(10% OF LEAST DIM)	
3.5	FEET	(40% OF EAVE)	
		Least =	1.8 FEET
0.72	FEET	(4% OF LEAST DIM)	
3	FEET	(3 FEET)	
		Max =	3 FEET

A =	3	FEET
2A =	6	FEET

HRS/ST/PS/HST/HTP/LSTA/LSTI/MST/MSTA/MSTC/MSTI Strap Ties

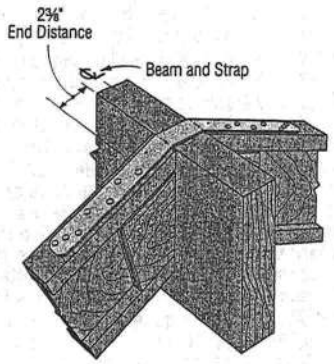
SIMPSON Strong-Tie

CODES: See page 12 for Code Reference Key Chart.

These products are available with additional corrosion protection. Additional products on this page may also be available with this option, check with Simpson Strong-Tie for details.

Model No.	Ga	Dimensions W	Dimensions L	Fasteners (Total)	Allowable Tension Loads (DF/SP) (160)	Allowable Tension Loads (SPF/HF) (160)	Code Ref.
LSTA9	20	1¼	9	8-10d	740	635	I4, L19, F2
LSTA12		1¼	12	10-10d	925	795	
LSTA15		1¼	15	12-10d	1110	950	
LSTA18		1¼	18	14-10d	1235	1110	
LSTA21		1¼	21	16-10d	1235	1235	
LSTA24		1¼	24	18-10d	1235	1235	
ST292		2⅛16	9⅝16	12-16d	1265	1120	I4, IL14, L19, F2
ST2122		2⅛16	12⅞16	16-16d	1530	1505	
ST2115		¾	16⅝16	10-16d	660	660	
ST2215		2⅛16	16⅝16	20-16d	1875	1880	
LSTA30	18	1¼	30	22-10d	1640	1640	I4, L19, F2
LSTA36		1¼	36	24-10d	1640	1640	
LSTI49		3¾	49	32-10dx1½	2975	2555	
LSTI73		3¾	73	48-10dx1½	4205	3830	
MSTA9		1¼	9	8-10d	750	645	
MSTA12		1¼	12	10-10d	940	810	
MSTA15		1¼	15	12-10d	1130	970	
MSTA18		1¼	18	14-10d	1315	1130	
MSTA21		1¼	21	16-10d	1505	1290	
MSTA24		1¼	24	18-10d	1640	1455	
MSTA30		1¼	30	22-10d	2050	1820	
MSTA36		1¼	36	26-10d	2050	2050	
MSTA49		1¼	49	26-10d	2020	2020	F26
ST6215		2⅛16	16⅝16	20-16d	2095	1900	I4, IL14, L19, F2
ST6224		2⅛16	23⅝16	28-16d	2540	2540	I4, L4, F2
ST9	16	1¼	9	8-16d	885	760	I4, IL14, L19, F2
ST12		1¼	11⅞	10-16d	1105	950	
ST18		1¼	17¾	14-16d	1420	1330	
ST22		1¼	21⅞	18-16d	1420	1420	
MSTC28		3	28¼	36-16d sinkers	3455	2980	I4, L19, F2
MSTC40		3	40¼	52-16d sinkers	4745	4305	
MSTC52		3	52¼	62-16d sinkers	4745	4745	
HTP37Z		3	7	20-10dx1½	1850	1600	170
MSTC66	14	3	65¾	76-16d sinkers	5860	5860	I4, L19, F2
MSTC78		3	77¾	76-16d sinkers	5860	5860	
ST6236		2⅛16	33⅛16	40-16d	3845	3845	
HRS6	12	1⅜	6	6-10d	605	525	F26
HRS8		1⅜	8	10-10d	1010	880	
HRS12		1⅜	12	14-10d	1415	1230	
MSTI26		2⅛16	26	26-10dx1½	2745	2325	I4, L19, F2
MSTI36		2⅛16	36	36-10dx1½	3800	3220	
MSTI48		2⅛16	48	48-10dx1½	5065	4290	
MSTI60		2⅛16	60	60-10dx1½	5080	5080	
MSTI72		2⅛16	72	64-10dx1½	5080	5080	
HRS416Z		3¼	16	16-SDS ¼"x1½"	2835	2305	170

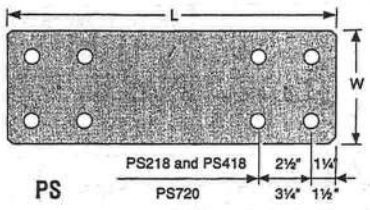
1. Loads include a 60% load duration increase on the fasteners for wind or earthquake loading.
2. 10dx1½" nails may be substituted where 16d sinkers or 10d are specified at 100% of the table loads except where straps are installed over sheathing.
3. 10d commons may be substituted where 16d sinkers are specified at 100% of table loads.
4. 16d sinkers (0.148" dia. x 3¼" long) or 10d commons may be substituted where 16d commons are specified at 0.84 of the table loads.
5. Use half of the nails in each member being connected to achieve the listed loads.
6. Tension loads apply for uplift when installed vertically.
7. **NAILS:** 16d = 0.162" dia. x 3½" long, 16d Sinker = 0.148" dia. x 3¼" long, 10d = 0.148" dia. x 3" long. 10dx1½ = 0.148" dia. x 1½" long. See page 16-17 for other nail sizes and information.

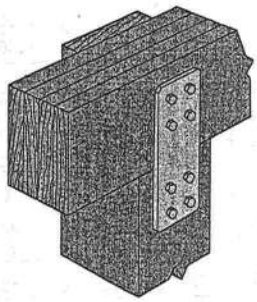


Typical LSTA Installation
(Hanger not shown)
Bend strap one time only

Model No.	Material Thickness Gauge	Dim. W	Dim. L	Bolts Qty	Bolts Dia	Code Ref.
PS218	7 ga	2	18	4	¾	180
PS418		4	18	4	¾	
PS720		6¾	20	8	½	

1. PS strap design loads must be determined by the Designer for each installation. Bolts are installed both perpendicular and parallel-to-grain. Hole diameter in the part may be oversized to accommodate the HDG. Designer must determine if the oversize creates an unacceptable installation.



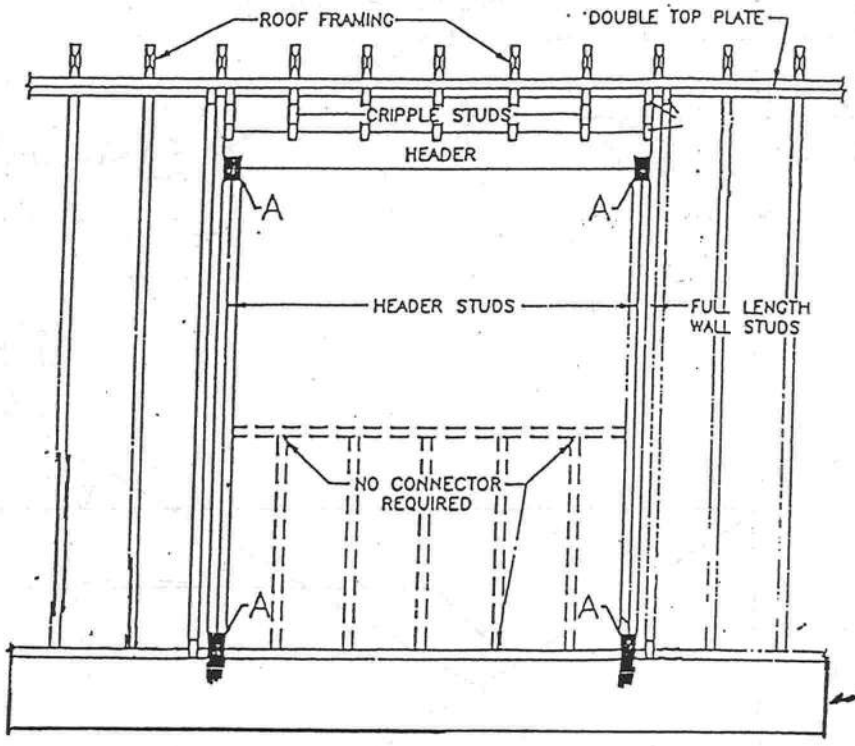


Typical PS720 Installation

Header Holddowns for Framed Floor Systems

Unsupported Wall Height	Stud Spacing	Maximum Header Span (ft.) 3′	6′	9′	12′	15′	18′
		Number of Header Studs Supporting End of Header					
		1[1]	1	2	2	2	2
		Number of Full-Length Studs at Each End of Header					
10′ or less	12 in.	2	2	3	3	3	3
	16 in.	2	2	3	3	3	3
	24 in.	1	2	2	2	2	2
greater than 10′	12 in.	2	2	3	4	5	5
	16 in.	2	2	3	3	4	4
	24 in.	1	2	2	2	3	3
# of Straps		1	1	1	2	2	2

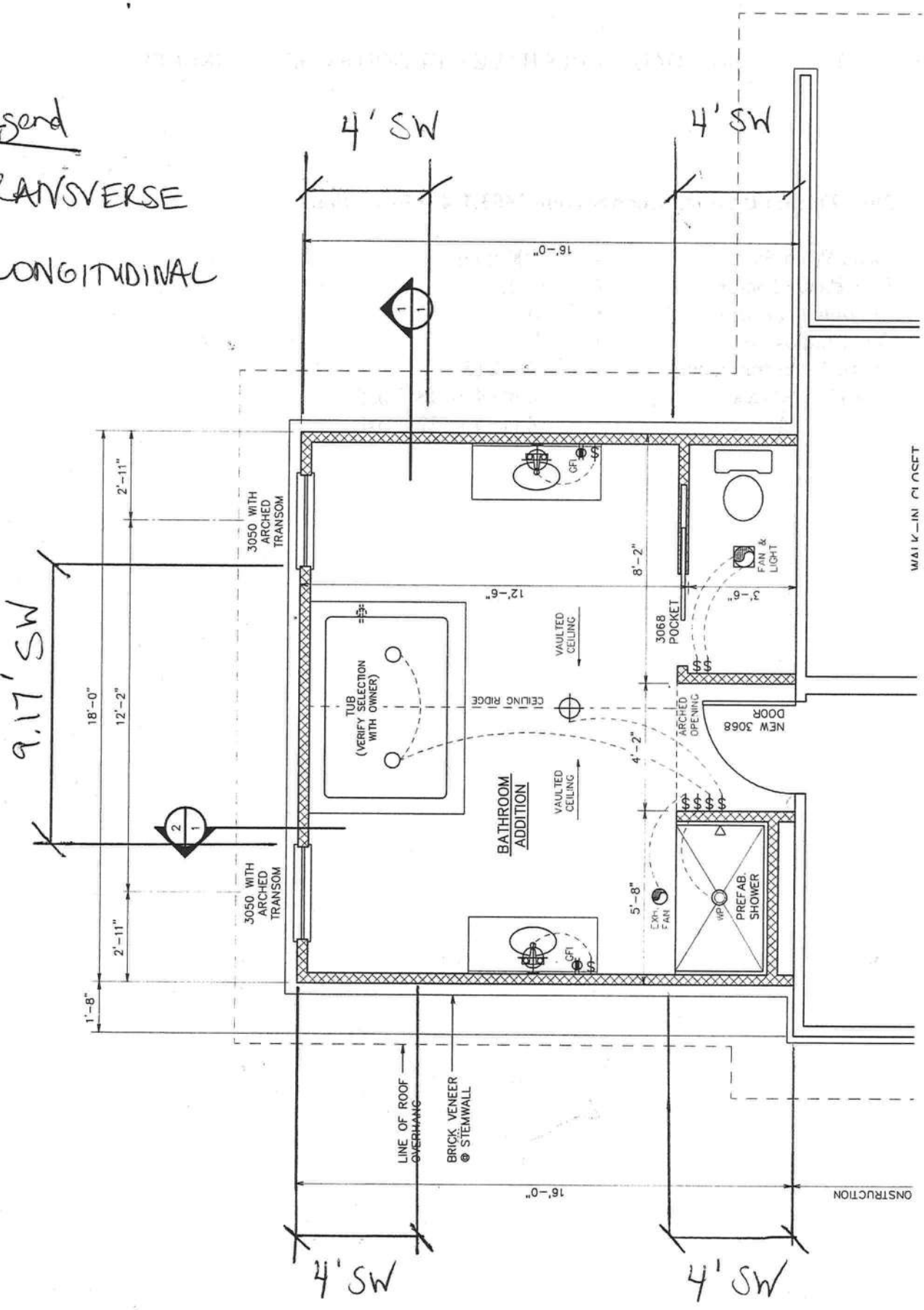
A= Simpson LSTA24 strap



SW Legend

↕ TRANSVERSE

↔ LONGITUDINAL



SPUTO AND LAMMERT ENGINEERING, LLC
STRUCTURAL ENGINEERS
10 SW 1ST AVENUE, GAINESVILLE, FL 32601
PHONE: 352-378-0448 FAX: 352-373-1331
E-MAIL: sputoandlammert@mindspring.com

Wind resistance of the referenced building has been designed using a wind speed of 100 mph as required by Section 1609, 2007 Florida Building Code.

ROOF SHEATHING: ½" Plywood or 7/16" OSB, installed without blocking. Use 8d common or 10-1/4 gage x 2" minimum length power nails at 6" o.c. at sheet edges and 6" o.c. in the sheet field. The roof acts as a structural diaphragm.

WALL SHEATHING: ½" Plywood or 7/16" OSB, installed with blocking at all horizontal sheet edges. Sheathing is installed from bottom to top plate to provide a continuous load path. Use 8d common or 10-1/4 gage x 2" minimum length power nails at 6" o.c. at vertical sheet edges, 6" o.c. at horizontal sheet edges, and 12" o.c. in the sheet field.

SHEARWALLS: See plan sheet for locations.

WALL STUDS: #2 Spruce or better 2x4 at 16" o.c. See notes for gable ends.

ANCHOR BOLTS: Simpson META 18 at maximum spacing of 48" o.c. Install one embedded anchor within 6" of all corners, and within 6" of the ends of all windows and doors. USE SIMPSON META 18 AT EACH END OF ALL SHEARWALLS.

HURRICANE CLIPS: Sized as follows. Subject to revision by the engineer after review of engineering from truss manufacturer.

One Ply Truss:	Simpson H10 (Truss engineering uplift of 850# max)
Two Ply Truss:	Simpson H10-2 (Truss engineering uplift max of 655#)
Truss to Truss:	Specified by truss manufacturer, IAW Wood Truss Council of America Standard WTCA 1-1995.
Girders / Truss:	If uplifts exceed indicated values above, clips may be doubled (one inside, one outside) or a strap added to the clip for additional uplift (Simpson LSTA21 for 1036#).
Outriggers at Gable End:	Simpson H2.5

GABLE END WALL BRACING: Balloon frame all gable end walls.

CONCRETE: All concrete and masonry wall grout shall have a 28 day compressive strength of 3000 psi. Grout shall have a slump of 8" to 11".

REINFORCING STEEL: Grade 60 - #5 bars. All lap splices to be a minimum of 25 inches. Unless otherwise noted, vertical reinforcing in walls is #5 bars at 4'-00" o.c. maximum spacing. Place a bar adjacent to all door and window jambs, and all corners and ends of walls. All hooks, splices, and bends to be in accordance with ACI 318 minimum criteria.