

DATE	02/14/2011		<b>Columbia County Building Permit</b>		<b>PERMIT</b>	
					<b>000029181</b>	
This Permit Must Be Prominently Posted on Premises During Construction						
APPLICANT	KURT JOHNSON		PHONE	386-454-0449		
ADDRESS	2210	SW OLD BELLAMY RD	FORT WHITE	FL	32038	
OWNER	MALCOLM & EILEEN WILLIAMS		PHONE	864-593-7071		
ADDRESS	2345	SW OLD BELLAMY RD	FORT WHITE	FL	32038	
CONTRACTOR	KURT JOHNSON		PHONE	386-454-0449		
LOCATION OF PROPERTY	41 S, R CR 18, L TUSTENUGGEE RD, FORK TO RIGHT ON DIRT RD, R OLD BELLAMY, ABOUT 1/4 MILE ON RIGHT AT GATE #2345					
TYPE DEVELOPMENT	ADDITION TO MH		ESTIMATED COST OF CONSTRUCTION	12000.00		
HEATED FLOOR AREA	240.00	TOTAL AREA	240.00	HEIGHT	126.00	STORIES 1
FOUNDATION	WOOD	WALLS	FRAMED	ROOF PITCH	1/12	FLOOR WOOD
LAND USE & ZONING	AG-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	06-7S-17-09923-001		SUBDIVISION			
LOT	BLOCK	PHASE	UNIT	TOTAL ACRES	5.80	
			CBC056830			
Culvert Permit No.	Culvert Waiver	Contractor's License Number	Applicant/Owner/Contractor			
EXISTING	11-0057-E	BK	TC	N		
Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident		
COMMENTS: NOC ON FILE						
ADDITION TO EXISTING DWELLING						
				Check # or Cash	1049	
FOR BUILDING & ZONING DEPARTMENT ONLY						
			(footer/Slab)			
Temporary Power	Foundation		Monolithic			
date/app. by		date/app. by		date/app. by		
Under slab rough-in plumbing	Slab		Sheathing/Nailing			
date/app. by		date/app. by		date/app. by		
Framing	Insulation					
date/app. by		date/app. by				
Rough-in plumbing above slab and below wood floor	Electrical rough-in					
date/app. by		date/app. by				
Heat & Air Duct	Peri. beam (Lintel)		Pool			
date/app. by		date/app. by		date/app. by		
Permanent power	C.O. Final		Culvert			
date/app. by		date/app. by		date/app. by		
Pump pole	Utility Pole	M/H tie downs, blocking, electricity and plumbing				
date/app. by		date/app. by		date/app. by		
Reconnection	RV		Re-roof			
date/app. by		date/app. by		date/app. by		
BUILDING PERMIT FEE \$	60.00	CERTIFICATION FEE \$	1.20	SURCHARGE FEE \$	1.20	
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 137.40	
INSPECTORS OFFICE	Laurie Hobson		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.						



**Columbia County Building Permit Application**

*1204* *clt# 1049*

<b>For Office Use Only</b>		Application # <u>1102-14</u>	Date Received <u>3/4</u>	By <u>JW</u>	Permit # <u>29181</u>
Zoning Official <u>BLK</u>	Date <u>10-02-11</u>	Flood Zone <u>X</u>	Land Use <u>A-3</u>	Zoning <u>A-3</u>	
FEMA Map # <u>N/A</u>	Elevation <u>N/A</u>	MFE <u>N/A</u>	River <u>N/A</u>	Plans Examiner <u>A.C.</u>	Date <u>2-8-11</u>
Comments _____					
<input checked="" type="checkbox"/> NOC <input checked="" type="checkbox"/> EH <input type="checkbox"/> Deed or PA <input type="checkbox"/> Site Plan <input type="checkbox"/> State Road Info <input checked="" type="checkbox"/> Well letter <input type="checkbox"/> 911 Sheet <input type="checkbox"/> Parent Parcel # _____ <input type="checkbox"/> Dev Permit # _____ <input type="checkbox"/> In Floodway <input checked="" type="checkbox"/> Letter of Auth. from Contractor <input type="checkbox"/> F W Comp. letter _____					
IMPACT FEES: EMS _____		Fire _____	Corr _____	<input checked="" type="checkbox"/> Sub VF Form _____	
Road/Code _____		School <u>N/A</u>	Addition = TOTAL (Suspended)		<input checked="" type="checkbox"/> App Fee Paid

Septic Permit No. 11-0657-E *to existing dwelling* Fax 386-454-0595

Name Authorized Person Signing Permit Kurt Johnsen Phone 386-454-0449

Address 2210 SW Old Bellamy Rd. Fort White FL 32038

Owners Name Malcolm & Eileen Williams Phone 864-593-7071

911 Address 2345 SW Old Bellamy Rd Fort White, FL 32038

Contractors Name Kurt Johnsen Builders, Inc. Phone 386-454-0449

Address 2210 SW Old Bellamy Rd Fort White FL 32038

Fee Simple Owner Name & Address N/A

Bonding Co. Name & Address N/A

Architect/Engineer Name & Address (Greg) Wayland Structural Engineering 8200 SW 16th Place  
 Mortgage Lenders Name & Address Gainesville, FL 3260

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

Property ID Number 06-75-17-09923-001 Estimated Cost of Construction \$15,000.00

Subdivision Name N/A Lot \_\_\_\_\_ Block \_\_\_\_\_ Unit \_\_\_\_\_ Phase \_\_\_\_\_

Driving Directions 441 S. to CR 18 Turn right towards Ft. White. Go 2 miles and turn left on Tustenuggee Rd. Go 1 mile and fork to right onto dirt Rd

Turn right at Stop sign onto Old Bellamy. About 1/4 mile to gate on right. Number of Existing Dwellings on Property 1

Construction of addition to mobile home Total Acreage 5.8 acres Lot Size \_\_\_\_\_

Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive Total Building Height 12'-6"

Actual Distance of Structure from Property Lines - Front 165' Side 480' Side 405' Rear 125'

Number of Stories 1 Heated Floor Area 240 sq ft Total Floor Area 240 sq ft Roof Pitch 1/2" in 1 foot

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. **CODE: Florida Building Code 2007 with 2009 Supplements and the 2008 National Electrical Code.**

*JW left a message on 2-10-11 for Kurt*



**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 COMMENCEMENT 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. You must verify if your property is encumbered by any restrictions or face possible litigation and or fines.

(Owners Must Sign All Applications Before Permit Issuance.)

  
Owners Signature

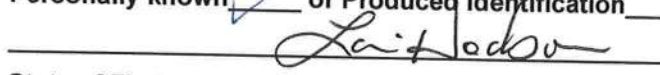
**\*\*OWNER BUILDERS MUST PERSONALLY APPEAR AND SIGN THE BUILDING PERMIT.**

**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 Signature (Permitee)

Contractor's License Number CBC056830  
Columbia County  
Competency Card Number \_\_\_\_\_

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 4th day of FEBRUARY 2011.  
Personally known ☒ or Produced Identification \_\_\_\_\_

  
State of Florida Notary Signature (For the Contractor)

SEAL:



**SUBCONTRACTOR VERIFICATION FORM**

APPLICATION NUMBER 1102-14 CONTRACTOR Kurt Johnson Builders, Inc. PHONE 386-454-0449  
**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.**

<b>ELECTRICAL</b> 37	Print Name <u>Donald R. Hollingsworth</u> License #: <u>ER13012377</u>	Signature <u>[Signature]</u> Phone #: <u>386-755-6570</u>
<b>MECHANICAL/A/C</b>	Print Name <u>N/A</u> License #: <u>N/A</u>	Signature _____ Phone #: _____
<b>PLUMBING/GAS</b>	Print Name <u>N/A</u> License #: <u>N/A</u>	Signature _____ Phone #: _____
<b>ROOFING</b> 917 STRUCTURAL INSULATED PANELS	Print Name <u>Kurt Johnson</u> License #: <u>CBC056830</u>	Signature <u>Kurt Johnson</u> Phone #: <u>386-454-0449</u>
<b>SHEET METAL</b>	Print Name <u>N/A</u> License #: <u>N/A</u>	Signature _____ Phone #: _____
<b>FIRE SYSTEM/SPRINKLER</b>	Print Name <u>N/A</u> License #: <u>N/A</u>	Signature _____ Phone #: _____
<b>SOLAR</b>	Print Name <u>N/A</u> License #: <u>N/A</u>	Signature _____ Phone #: _____

Specialty License	License Number	Sub-Contractors Printed Name	Sub-Contractors Signature
MASON	N/A	_____	_____
CONCRETE FINISHER	N/A	_____	_____
✓ FRAMING 917	CBC056830	Kurt Johnson	Kurt Johnson
✓ INSULATION 917	CBC056830	Kurt Johnson	Kurt Johnson
STUCCO	N/A	_____	_____
✓ DRYWALL 917	CBC056830	Kurt Johnson	Kurt Johnson
PLASTER	N/A	_____	_____
CABINET INSTALLER	N/A	_____	_____
✓ PAINTING 917	CBC056830	Kurt Johnson	Kurt Johnson
ACOUSTICAL CEILING	N/A	_____	_____
GLASS	_____	_____	_____
CERAMIC TILE	N/A	_____	_____
✓ FLOOR COVERING 917	CBC056830	Kurt Johnson	Kurt Johnson
✓ ALUM/VINYL SIDING 917	CBC056830	Kurt Johnson	Kurt Johnson
GARAGE DOOR	N/A	_____	_____
METAL BLDG ERECTOR	N/A	_____	_____

**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.

## NOTICE OF COMMENCEMENT

Tax Parcel Identification Number: \_\_\_\_\_

Clerk's Office Stamp

Inst: 201112001799 Date: 2/4/2011 Time: 2:17 PM

DC, P. DeWitt Cason, Columbia County Page 1 of 1 B: 1209 P: 972

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.

- BEG AT NW COR OF NE 1/4 OF NE 1/4, LANE 893-4451*  
1. Description of property (legal description): *5237.8 FT TO PT ON N 1/2 R/W OLD BELLAMY RD, THENCE S 00° 00' 00" E*  
a) Street (job) Address: *2345 S.W. OLD BELLAMY RD, FT. WHITE 32038*  
2. General description of improvements: *12' x 20' ADDITIONAL TO MOBILE HOME*  
3. Owner Information  
a) Name and address: *MALCOLM & ELEAN WILLIAMS, 2345 S.W. OLD BELLAMY RD, FT. WHITE*  
b) Name and address of fee simple titleholder (if other than owner): \_\_\_\_\_  
c) Interest in property: *100%*  
4. Contractor Information  
a) Name and address: *Kurt Johnson Builders, Inc. 2210 SW Old Bellamy Rd Fort White FL 32038*  
b) Telephone No.: *386-454-0449* 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: \_\_\_\_\_  
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(f)(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

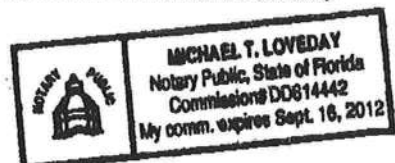
10. \_\_\_\_\_  
Signature of Owner or Owner's Authorized Office/Director/Partner/Manager

*MALCOLM M. WILLIAMS*  
Printed Name

The foregoing instrument was acknowledged before me, a Florida Notary, this *24<sup>th</sup>* day of *January*, 2011, by:  
*Malcolm M. Williams* as *A/A* (type of authority, e.g. officer, trustee, attorney  
fact) for *A/A* (name of party on behalf of whom instrument was executed).

Personally Known \_\_\_\_\_ OR Produced Identification ☒ Type *Driver's License*

Notary Signature *Michael T. Loveday* Notary Stamp or Seal:



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.

Signature of Natural Person Signing (in line #10 above.)



PARCEL\_N      NEWNUM NE NEWSTR      NEWT NEWCITY      NE NEWZI

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✓ 06-75-17-09923-001    2345 SW OLD BELLAMY    RD FORT WHITE    FL 32038

From Address Database.

NOTE: If there is a change of access or change of location of structure a Address Assignment Request Form must be submitted to Addressing / GIS Dept. This is to ensure we get emergency services to the correct location. Location of structure and access is clear on image on property appraiser web site.

Ron

*Ronal N. Croft*

Columbia County 911 Addressing / GIS Department

P.O. Box 1787

Lake City, FL 32056-1787

Phone: 386-758-1125

Fax: 386-758-1365

E-Mail: [ron\\_croft@columbiacountyfla.com](mailto:ron_croft@columbiacountyfla.com)



## DEPARTMENT OF HEALTH

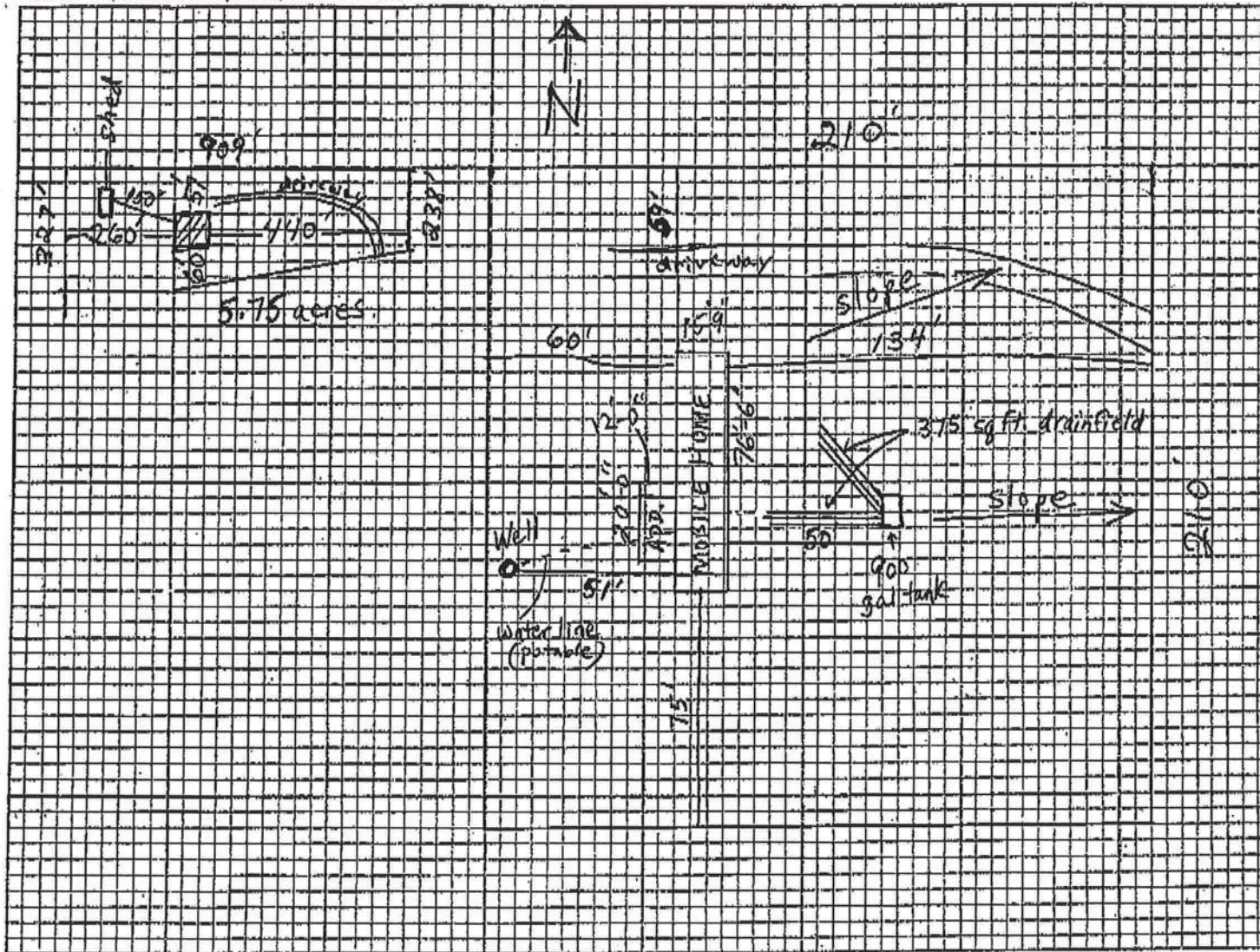
# APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number

V-0057E

**PART II - SITE PLAN-**

**Scale:** Each block represents 5 feet and 1 inch = 50 feet.



Notes: 1 of 5.75 acres in large box.

Site Plan submitted by: Kurt M Johnson 2/8/11  
Signature

Contractor and  
authorized agent

Plan Approved ☒ Not Approved ☐

Date 2/11/11

By Sally Ford, EH Director, Columbia

County Health Department

**ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT**

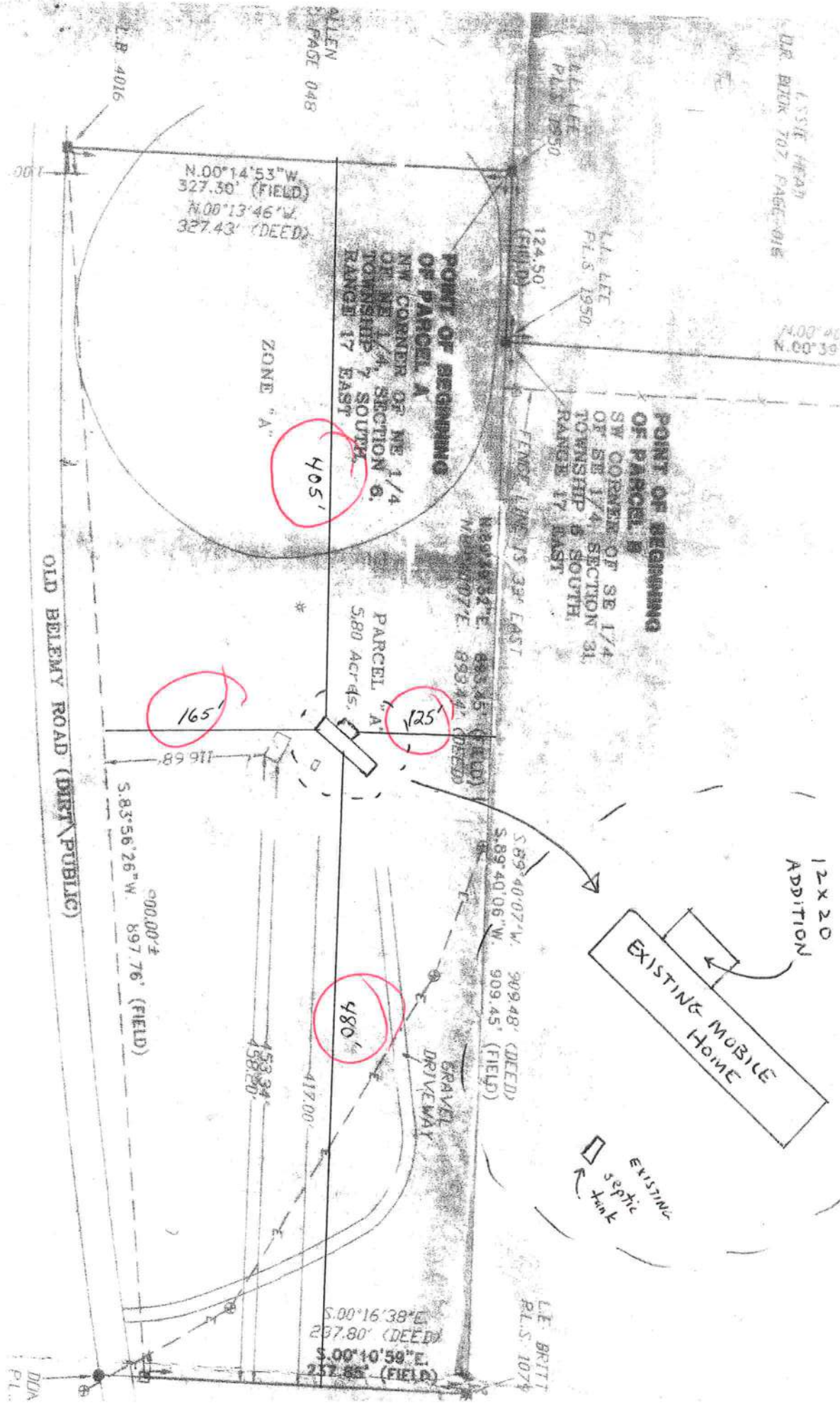


4.00° 40' 00" E  
4.00° 39' 45" E

DONALD FISHER  
JAN. BOOK 1923 PAGE 1380

# SITE PLAN

WILLIAMS ADDITION  
2345 OLD BELLMY RD  
FORT WHITE, FL 32038







1102-04



18.50  
1120.00  
160,000.

Prepared by and Return to:  
Mary T. Dotson, an employee of  
Alachua Title Services, LLC,  
P.O. Box 2408 (32616), 16407 N.W. 174th Drive, Suite C  
Alachua, Florida 32615  
386-418-8183

File Number:09-012

Inst:200912003818 Date:3/10/2009 Time:4:06 PM  
Doc Stamp-Deed:1120 00  
DC, P DeWitt Cason, Columbia County Page 1 of 2 B.1168 P.2371

## Warranty Deed

Made on March 9, 2009 A.D. by and between **Kevin Brown and Annetee Brown a/k/a Annette Brown, husband and wife**, whose address is 6202 193rd Street East, Bradenton, FL 34211, hereinafter called the "grantor", to **Malcolm M. Williams and Eileen P. Williams, husband and wife**, whose post office address is 156 Mountain View Drive, Pickens, SC 29671-8848, hereinafter called the "grantee":

(Whenever used herein the term "grantor" and "grantee" include all the parties to this instrument and the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporations).

**Witnesseth**, that the grantor, for and in consideration of the sum of Ten Dollars, (\$10.00) and other valuable considerations, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, aliens, remises, releases, conveys and confirms unto the grantee, all that certain land situate in **Columbia County, Florida**, to-wit:

**(PARCEL A)**

BEGIN AT THE NORTHWEST CORNER OF THE NE 1/4 OF THE NE 1/4 OF SECTION 6, TOWNSHIP 7 SOUTH, RANGE 17 EAST, COLUMBIA COUNTY, FLORIDA AND RUN N.89°40'07"E., ALONG THE NORTH LINE OF SAID SECTION 6 A DISTANCE OF 893.44 FEET; THENCE S.00°16'38"E., 237.80 FEET TO A POINT ON THE NORTHERLY MAINTAINED RIGHT-OF-WAY LINE OF OLD BELLAMY ROAD (A COUNTY GRADED ROAD); THENCE WESTERLY ALONG SAID NORTHERLY MAINTAINED RIGHT-OF-WAY LINE 900.00 FEET, MORE OR LESS TO A POINT ON THE WEST LINE OF SAID NE 1/4 OF THE NE 1/4; THENCE N.00°13'46"W, ALONG SAID WEST LINE, 327.43 FEET TO THE POINT OF BEGINNING.

**ALSO (PARCEL B)**

BEGIN AT THE SOUTHWEST CORNER OF THE SE 1/4 OF THE SE 1/4 OF SECTION 31, TOWNSHIP 6 SOUTH, RANGE 17 EAST, COLUMBIA COUNTY, FLORIDA RUN N.00°40'10"E., ALONG THE WEST LINE OF SAID SE 1/4 OF SE 1/4 A DISTANCE OF 596.64 FEET; THENCE N.89°40'44"E., 909.09 FEET; THENCE S.00°38'15"W., 596.47 FEET TO A POINT ON THE SOUTH LINE OF SAID SECTION 31; THENCE S.89°40'07"W., ALONG SAID SOUTH LINE 909.42 FEET TO THE POINT OF BEGINNING.

**Parcel Identification Number: R09823-000 & R09923-001**

**Subject to covenants, conditions, restrictions and easements of record.**

**Together** with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.



# Columbia County Property Appraiser

DB Last Updated: 1/6/2011

2010 Tax Year

Tax Collector

Tax Estimator

Property Card

Parcel List Generator

Interactive GIS Map

Print

Parcel: 06-7S-17-09923-001

<< Next Lower Parcel

Next Higher Parcel >>

Search Result: 1 of 2

Next >>

## Owner & Property Info

Owner's Name	WILLIAMS MALCOLM M & EILEEN P		
Mailing Address	156 MOUNTAIN VIEW DR PICKENS, SC 29671-8848		
Site Address	MOUNTAIN VIEW DR		
Use Desc. (code)	MOBILE HOM (000200)		
Tax District	3 (County)	Neighborhood	6717
Land Area	5.750 ACRES	Market Area	02
Description	NOTE: This description is not to be used as the Legal Description for this parcel in any legal transaction. BEG AT NW COR OF NE1/4 OF NE1/4, RUN E 893.44 FT, S 237.80 FT TO PT ON NLY R/W OLD BELLAMY RD, THENCE WERLY ALONG R/W 900 FT, N 327.43 FT TO POB. ORB 587-40, 772-740, 1004-2504, WD 1168-2371		



## Property & Assessment Values

2010 Certified Values		
Mkt Land Value	cnt: (0)	\$30,662.00
Ag Land Value	cnt: (1)	\$0.00
Building Value	cnt: (0)	\$0.00
XFOB Value	cnt: (0)	\$0.00
Total Appraised Value		\$30,662.00
Just Value		\$30,662.00
Class Value		\$0.00
Assessed Value		\$30,662.00
Exempt Value		\$0.00
Total Taxable Value	Cnty: \$30,662 Other: \$30,662   Schl: \$30,662	

## 2011 Working Values

NOTE:  
2011 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
3/9/2009	1168/2371	WD	V	Q	01	\$160,000.00
1/15/2004	1004/2504	TR	V	U	03	\$65,000.00

## Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
1	SFR MANUF (000200)	2001	(31)	1216	1216	\$29,269.00
Note: All S.F. calculations are based on exterior building dimensions.						

## Extra Features & Out Buildings

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
NONE						

## Land Breakdown

Lnd Code	Desc	Units	Adjustments	Eff Rate	Lnd Value
000200	MBL HM (MKT)	5.75 AC	1.00/1.00/1.00/1.00	\$4,799.38	\$27,596.00
009945	WELL/SEPT (MKT)	1 UT - (0000000.000AC)	1.00/1.00/1.00/1.00	\$2,000.00	\$2,000.00

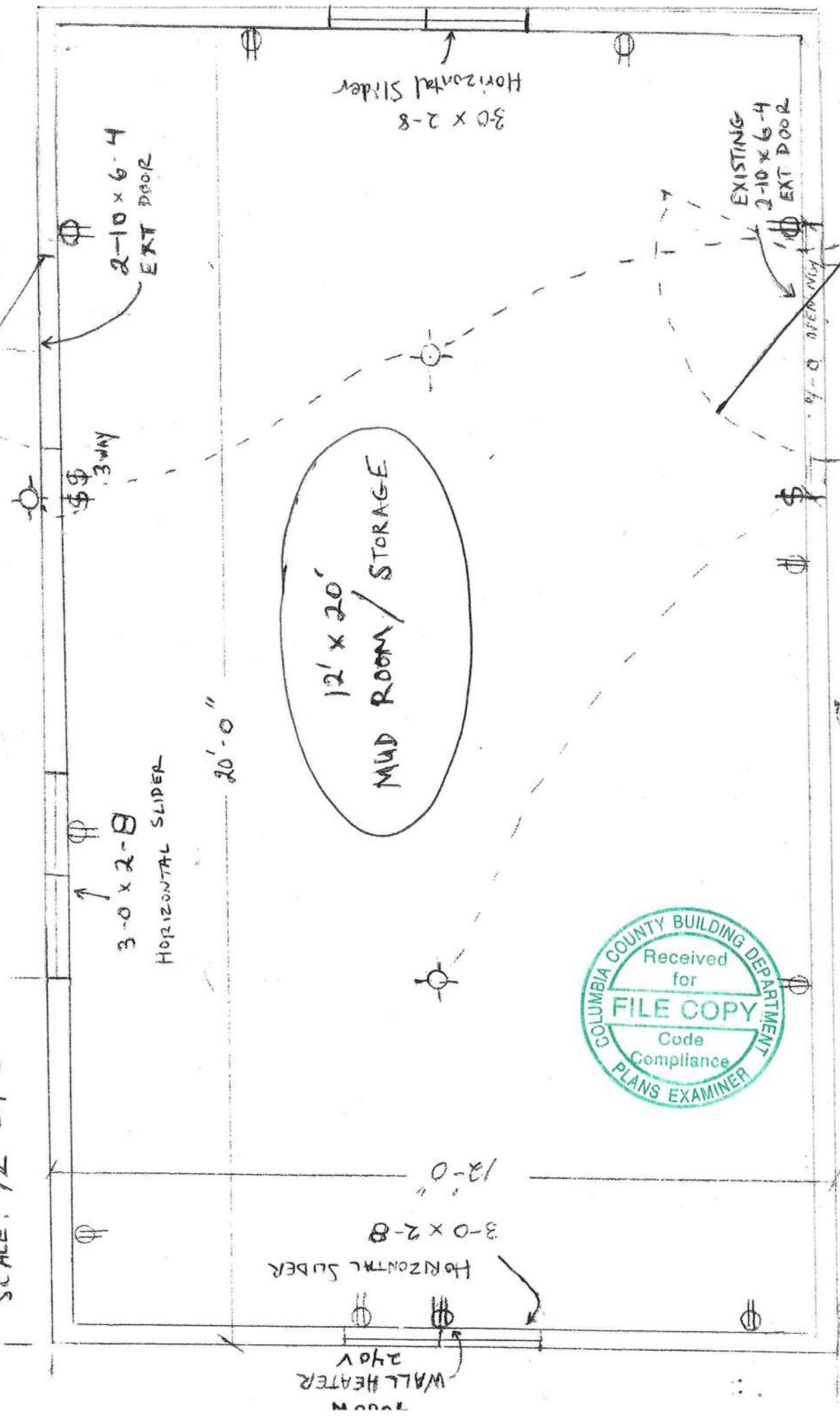
Columbia County Property Appraiser

DB Last Updated: 1/6/2011



WILLIAMS ADDITION  
 FLOOR PLAN & ELECTRICAL PLAN  
 SCALE: 1/2" = 1'-0"

2345 Old Bellamy Rd Fort White, FL  
 KURT JOHNSON BUILDERS  
 386 454-0449



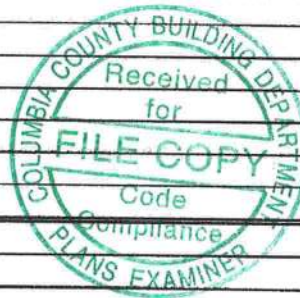
EXISTING MOBILE HOME

## PRODUCT APPROVAL SPECIFICATION SHEET

**Location:** 2345 old Bellamy Rd. FORT WHITE, FL **Project Name:** Williams Addition

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](http://www.floridabuilding.org)

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
<b>A. EXTERIOR DOORS</b>			
1. Swinging	ELIXIR INDUSTRIES	Model 6000	
2. Sliding		Combination ext. door & storm door	1722.5
3. Sectional			
4. Roll up			
5. Automatic			
6. Other			
<b>B. WINDOWS</b>			
1. Single hung			
2. Horizontal Slider	PGT	Vinyl with insulated glass	FL 10507.1
3. Casement			
4. Double Hung			
5. Fixed			
6. Awning			
7. Pass-through			
8. Projected			
9. Mullion			
10. Wind Breaker			
11. Dual Action			
12. Other			
<b>C. PANEL WALL</b>			
1. Siding			
2. Soffits			
3. EIFS			
4. Storefronts			
5. Curtain walls			
6. Wall louver			
7. Glass block			
8. Membrane			
9. Greenhouse			
10. Other			
<b>D. ROOFING PRODUCTS</b>			
1. Asphalt Shingles			
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	STRUCTALL	SNAP N LOCK ROOF PANELS	5945-R3
<b>E. SHUTTERS</b>			
1. Accordion			
2. Bahama			
3. Storm Panels			
4. Colonial			
5. Roll-up			
6. Equipment			
7. Others			
<b>F. SKYLIGHTS</b>			
1. Skylight			
2. Other			
<b>G. STRUCTURAL COMPONENTS</b>			
1. Wood connector/anchor	SIMPSON	AC6, ACE6	FL 10860
2. Truss plates		LUS28, HUC26	FL 10655
3. Engineered lumber		LSTA9	FL 10852
4. Railing		HTS-16, SP4, H-10	FL 10456
5. Coolers-freezers			
6. Concrete Admixtures			
7. Material			
8. Insulation Forms			
9. Plastics			
10. Deck-Roof			
11. Wall			
12. Sheds			
13. Other			
<b>H. NEW EXTERIOR ENVELOPE PRODUCTS</b>			
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 inspection.

Kurt M. Johnsen  
Contractor or Contractor's Authorized Agent Signature  
2210 SW Old Bellamy Rd Fort White, FL  
Location 32038

Kurt M. Johnsen 2/4/11  
Print Name Date

# STRUCTURAL ENGINEERING

FOR

**WILLIAMS RESIDENCE ADDITION**  
**Old Bellamy Road Fort White, FL 32038**

**w s e**

**WAYLAND**

**STRUCTURAL ENGINEERING**

**8200 SW 16th Place Gainesville, FL 32607**

**Phone/Fax 352-331-0727**

**FL COA #8236**

**Project No. 11011**

**January 28, 2011**

**For**

**Kurt Johnsen**

**2210 SW Old Bellamy Rd. Fort White, FL 32038**



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**GREGORY S. WAYLAND, PE**

**FL PE #54396**



<b>WAYLAND STRUCTURAL ENGINEERING</b>		Date: 1/28/2011
Gregory S. Wayland, PE	FL PE #54396	By: GSW
8200 SW 16th Place Gainesville, FL 32607	Ph/Fax 352-331-0727	Page: 1
Project Name: <b>WILLIAMS RESIDENCE ADDITION</b>		For: -
WSE Project Number: 11011		-
Project Location: FORT WHITE, FL		-

## STRUCTURAL SPECIFICATION

### A. GENERAL

- This STRUCTURAL SPECIFICATION shall be considered part of the contract documents for this project and shall be attached to the drawings prepared by: NA Date:
- Roof truss layout, uplift loads and gravity loads relied upon for design of supporting walls, lintels, headers, footings, etc. prepared by: NA Date:
- Information and materials specified in this STRUCTURAL SPECIFICATION shall take precedence over that shown on the drawings.
- Signing and sealing this document and/or the construction drawings by Wayland Structural Engineering certifies only the structural systems for this building, and is not a certification of the site plan, architectural, electrical, mechanical, plumbing or other systems that may be shown on the same drawing. WSE is not responsible for changes made to this document by others without written consent.
- It is assumed that this building site is not located within a 100 year floodplain and is not designed for hydrostatic or moving water loads.

### B. GOVERNING CODE

**FLORIDA BUILDING CODE, 2007 + 2009 SUPPLEMENT**

### C. DESIGN LOADS

<b>1. Dead Loads</b>			<b>(Section 1606)</b>			<b>4. Wind Loads</b>				<b>(Section 1609)</b>		
Roof Top Chord	10	psf				Enclosure Classification	Enclosed			110 mph		
Roof Bottom Chord	10	psf				Basic Wind Speed (3 sec. gust)	110					
Floor	10	psf				Wind Importance Factor, Iw	1.0					
<b>2. Live Loads</b>			<b>(Section 1607)</b>			Exposure Category	B			+0.18, -0.18		
Floor Live Load	40	psf	Internal Pressure Coefficients:			Design Wind Pressures for Doors and Windows:						
Balconies	60	psf										
Attics w/o storage	10	psf										
Attics w storage	20	psf										
<b>3. Roof Live Loads</b>			<b>(Section 1607.11.2)</b>									
12:12 pitch	12	psf				Opening Area (sf)	Inward Pressure (psf)	Outward Pressure (psf)				
10:12 pitch	14	psf				0-10	21.8	-29.1				
8:12 pitch	16	psf				11-20	20.8	-27.2				
6:12 pitch	18	psf				21-50	19.5	-24.6				
Flat to 4:12 pitch	20	psf				51-100	18.5	-22.6				

### D. EARTHWORK

- General:
  - OWNER/CONTRACTOR CAUTION:** A geotechnical or soil investigation has not been performed for this site. It is recommended that the Owner or Contractor employ the services of a geotechnical engineer to perform soil borings and provide recommendations for preparation of the soils specific to this building site, and confirm the soil type assumed in this specification. WSE has no knowledge of the on-site soils and therefore accepts no responsibility for their bearing capacity or performance.
  - Bearing soil is therefore presumed to be sandy soil with no organics, peat, clay, expansive clays, or boulders.
  - It is assumed that seasonal high groundwater table is well below footing bearing elevation.
  - The allowable soil bearing pressure is assumed to be 2,000 pounds per square foot.
  - If the Contractor or Building Inspector encounters organics, clays, silts, boulders or high groundwater levels during foundation excavation, engineer of record and/or geotechnical engineer shall be contacted and/or employed to assess conditions first hand and give direction for additional corrective work or modifications to the design that may need to be performed.
- Site Preparation:
  - Strip all trees, grasses, topsoil and other organics from building footprint. Use root rake or similar equipment to remove roots.
  - Proofcompact existing grade with loaded dump truck or compactor to densify existing soils and identify soft or loose soils.
  - If soft soils are encountered during proofcompaction, overcut unsuitable material and replace with well graded sand. (See 1e. above)
- Excavation:
  - Excavations are to be performed in accordance with current OSHA standards. Contractor is responsible for excavation safety.
  - Compact all excavation bottoms to firm unyielding condition. See B.6.c. for compaction requirement.
- Footing Bearing:
  - All foundations are to bear on undisturbed sandy soil or compacted fill as described herein.
  - Bottom of footings are to extend at least 12 inches below grade.
- Ground/Surface Water Control:
  - Excavation and backfill operations are to be maintained in a dry condition.
  - Slope or crown building subgrades to promote run-off and prevent ponding.
  - Surface and infiltrating water are to be removed by grading and pumping from sumps if required.
- Backfill and Compaction:
  - Use only clean, well graded sand with no more than 10% passing #200 sieve for fill and backfill within building footprint.
  - Mechanically compact all backfill within building footprint in maximum 12" loose lifts to firm unyielding consistency.
  - Suggest compact to 95% of maximum dry density per Modified Proctor Test, ASTM D-1557.
- Pest Control:
  - Treat all slab subgrades for termites in accordance with the Florida Building Code and local ordinances.
- Exterior Grading:
  - Exterior grade is to be kept at least 6 inches below wood siding and/or foam insulation.
  - Slope exterior grade away from building to promote drainage.

<b>WAYLAND STRUCTURAL ENGINEERING</b>		Date: 1/28/2011
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8200 SW 16th Place Gainesville, FL 32607	Ph/Fax 352-331-0727	By: GSW
Project Name: <b>WILLIAMS RESIDENCE ADDITION</b>		Page: 2
WSE Project Number: 11011		For: -
Project Location: FORT WHITE, FL		-

# **STRUCTURAL SPECIFICATION (Continued)**

## **E. CONCRETE**

1. General: Comply with Florida Building Code, Chapter 19, and ACI 301-99 Specifications for Structural Concrete.
2. Concrete:
  - a. Cement: ASTM C150, Type I Portland cement
  - b. Aggregate: ASTM C33, maximum aggregate size = 1 inch
  - c. Water/cement ratio: 0.50 maximum
  - d. Slump: 4 inches +/- 1 inch.
  - e. Air entraining: ASTM C 260, concrete is to be air entrained for mild exposure, 3 - 6%.

COMPRESSIVE STRENGTH, (psi) min. at 28 days	
Member	Strength
Footings	2,500

3. Reinforcing: ASTM A615, Grade 40.

LAPS, BENDS, HOOKS			
Bar Size	Lap Length	Bend Diameter	Hook Length
#3	15"	2 1/4"	6"
#4	20"	3"	8"
#5	25"	3 3/4"	10"
#6	30"	4 1/2"	12"

BAR COVER	
Condition	Minimum Cover
Cast against and exposed to earth	3"
Exposed to earth or weather	1 1/2"
Not exposed to weather or earth	
Slabs, walls, joists	3/4"
Beams, columns (stirrups, ties)	1 1/2"

## **F. WOOD FRAMING**

1. General: Comply with the Florida Building Code, Chapter 23.

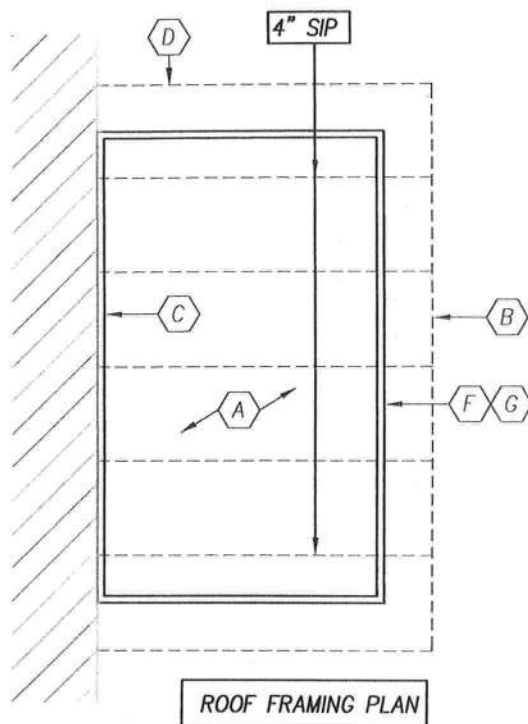
Wall height	Member	Spacing	Grade	Species
Up to 10 ft.	2x4	16" o.c.	No. 2	Spruce-Pine-Fir (SPF)

3. Headers, Joists, Beams: No. 2, Southern Pine (SP).
4. Posts: No. 2, Southern Pine (SP).
5. Sheathing:
  - a. Wall Sheathing: 7/16" thick, Oriented Strand Board (OSB), Sheathing Grade, Exposure 1.  
Fasten with 8d nails @ 6" o.c. at panel edges, 12" o.c. along intermediate supports.  
Install panels vertically. Nail top edge to top plate. Provide solid blocking at all panel edges.
  - b. Floor Sheathing: 3/4" thick, APA Rated Sturd-I-Floor plywood, tongue & groove, exposure 1.  
Fasten with construction adhesive and 10d common nails @ 6" o.c. at panel edges, 12" o.c. along intermediate supports.  
Install panels perpendicular to supports, stagger joints one-half panel length.
6. Fasteners:
  - a. Nails: Comply with Florida Building Code, 2006 Supplement, Table 2304.9.1, "Fastening Schedule."
  - b. Bolts: ASTM A307, hot-dip galvanized, see plan for size and quantity.
  - c. Uplift Anchors & Ties: Simpson Strong-Tie,
  - d. Corrosion Protection: All fasteners exposed to weather or in contact with preservative treated wood shall be hot-dip galvanized to G185. For Simpson connectors, provide "Z-Max" coating.

## **G. WINDOWS, DOORS, SKYLIGHTS**

1. Design: Wayland Structural Engineering is not responsible for the design, construction, or attachment of windows, doors or skylights. The building envelope is designed assuming a fully enclosed condition, therefore windows, doors and skylights must be designed to support the same wind pressures that walls and roofs are designed for.
2. Certification: Window, door and skylight manufacturer shall submit certification indicating that window or door units can adequately support design wind pressures for the specified wind zone as shown in section C.4. above.
3. Fastenings: Window, door and skylight manufacturer is to provide fastening information for attachment to supporting construction.





#### SYMBOL KEY

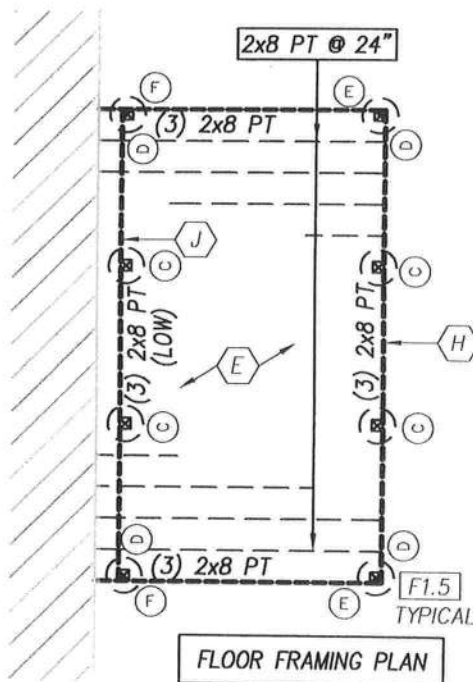
- (B) DETAIL
- (A) ANCHOR
- [F2.5] FOOTING
- ===== EXTERIOR BEARING/  
SHEAR WALL
- TRUSS OR JOIST
- BEAM

#### ANCHORS (SIMPSON STRONG-TIE)

- (A) "H2.5A" + (3) 10d TOE-NAILS  
UNLESS OTHERWISE NOTED
- (B) "H10"
- (C) "AC6"
- (D) "ACE6"
- (E) "HUC26-3"
- (F) "HTS16"

#### FOOTING SCHEDULE

- [F1.5] 1'-6" DIA. x 3'-0" DEEP



## WAYLAND STRUCTURAL ENGINEERING

**W S E**

GREGORY S. WAYLAND, PE  
8200 SW 16TH PLACE GAINESVILLE, FL 32607  
PHONE/FAX: (352) 331-0727  
FLORIDA PE #54396 COA #B236

PROJECT NAME: WILLIAMS RESIDENCE ADDITION

LOCATION: FORT WHITE, FLORIDA

DWG. NAME: STRUCTURAL PLAN

SCALE: 1/8" = 1'-0"

BY: GSW

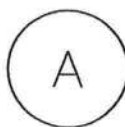
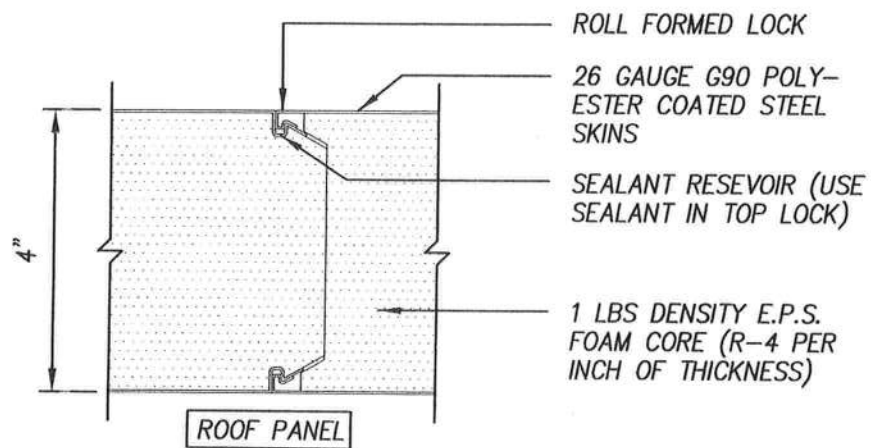
DWG NO.

PROJECT NO: 11011

DATE: 01/28/2011

**S1**

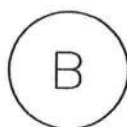
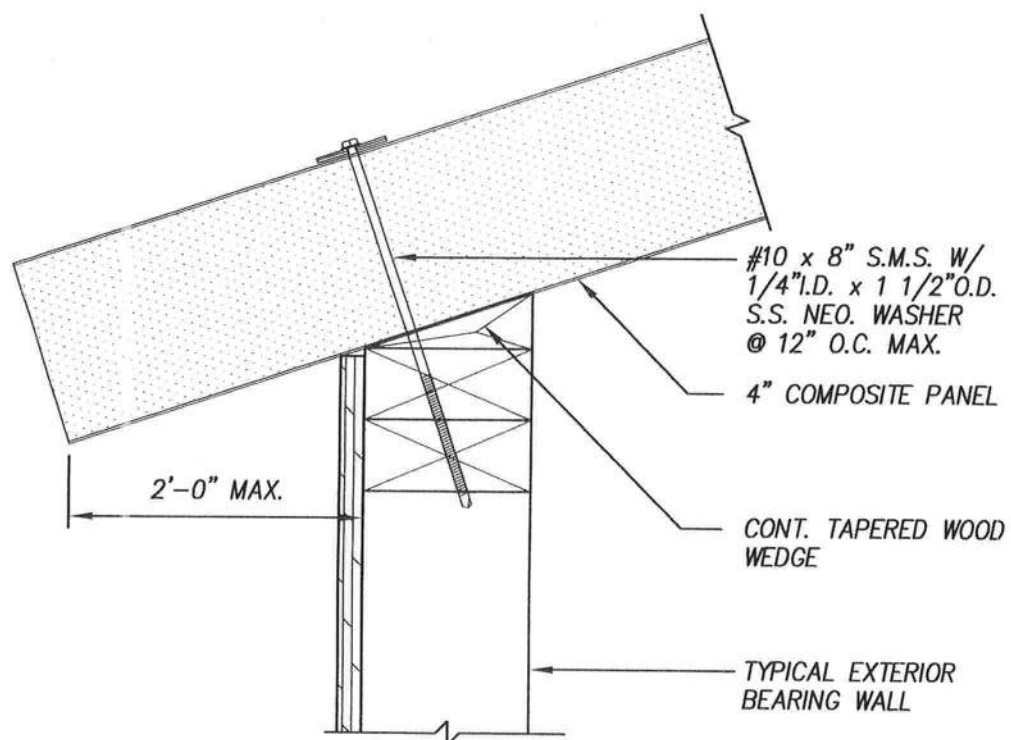




## Snap-N-Lock Panels, 4"

3" = 1'-0"

SIP 001

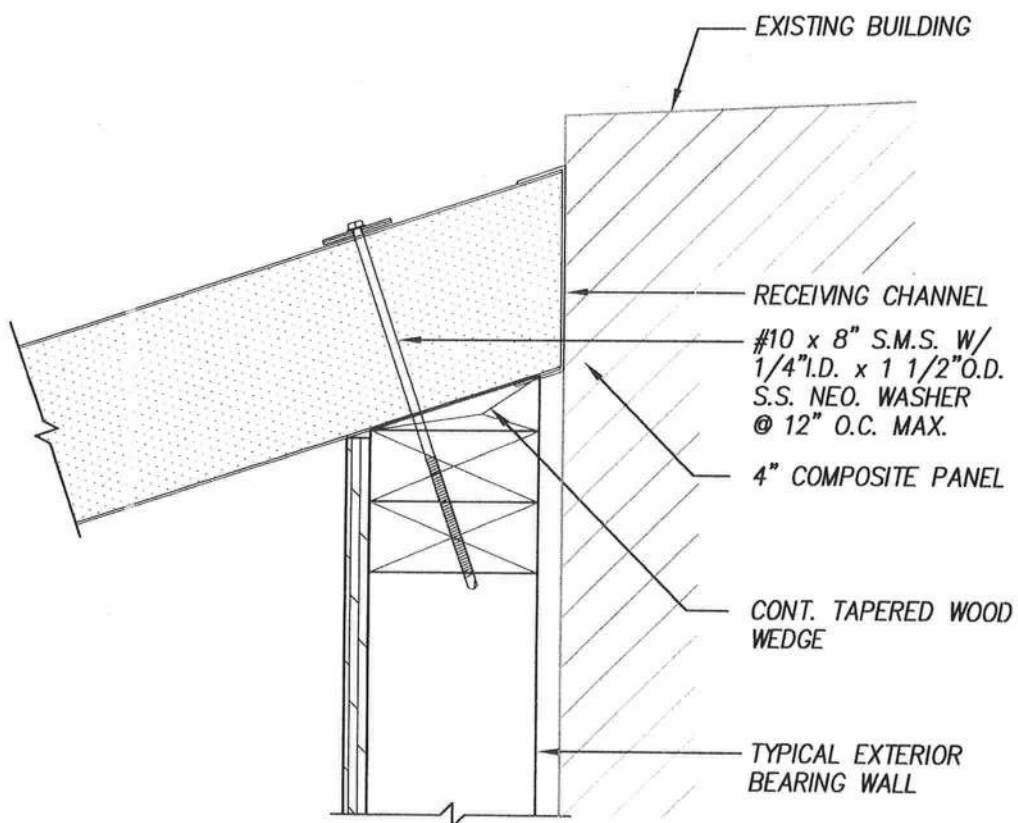


## Panel Roof to Wood Wall

3" = 1'-0"

SIP R250



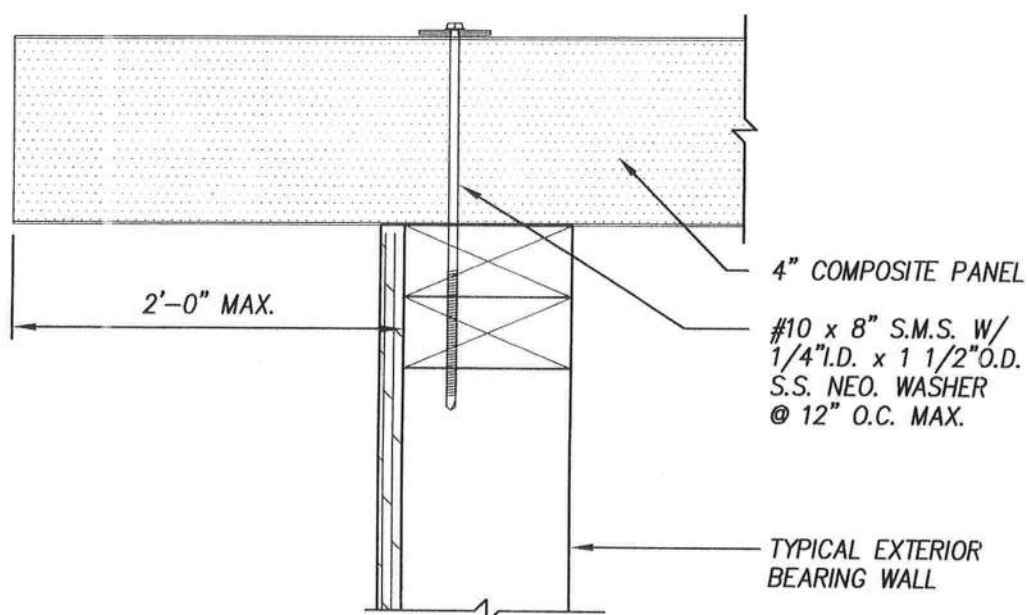


C

## Panel Roof to Wood Wall

3" = 1'-0"

SIP R250A



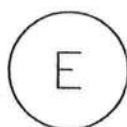
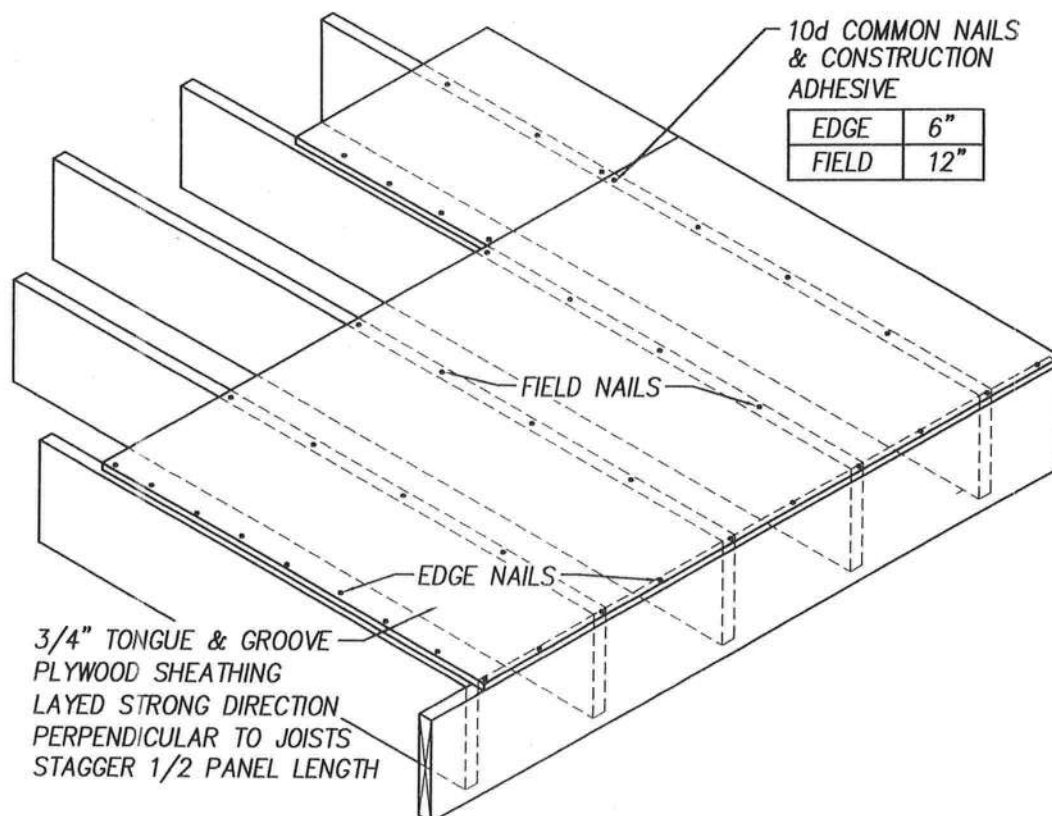
D

**Panel Roof to End Wall**

3" = 1'-0"

SIP R270

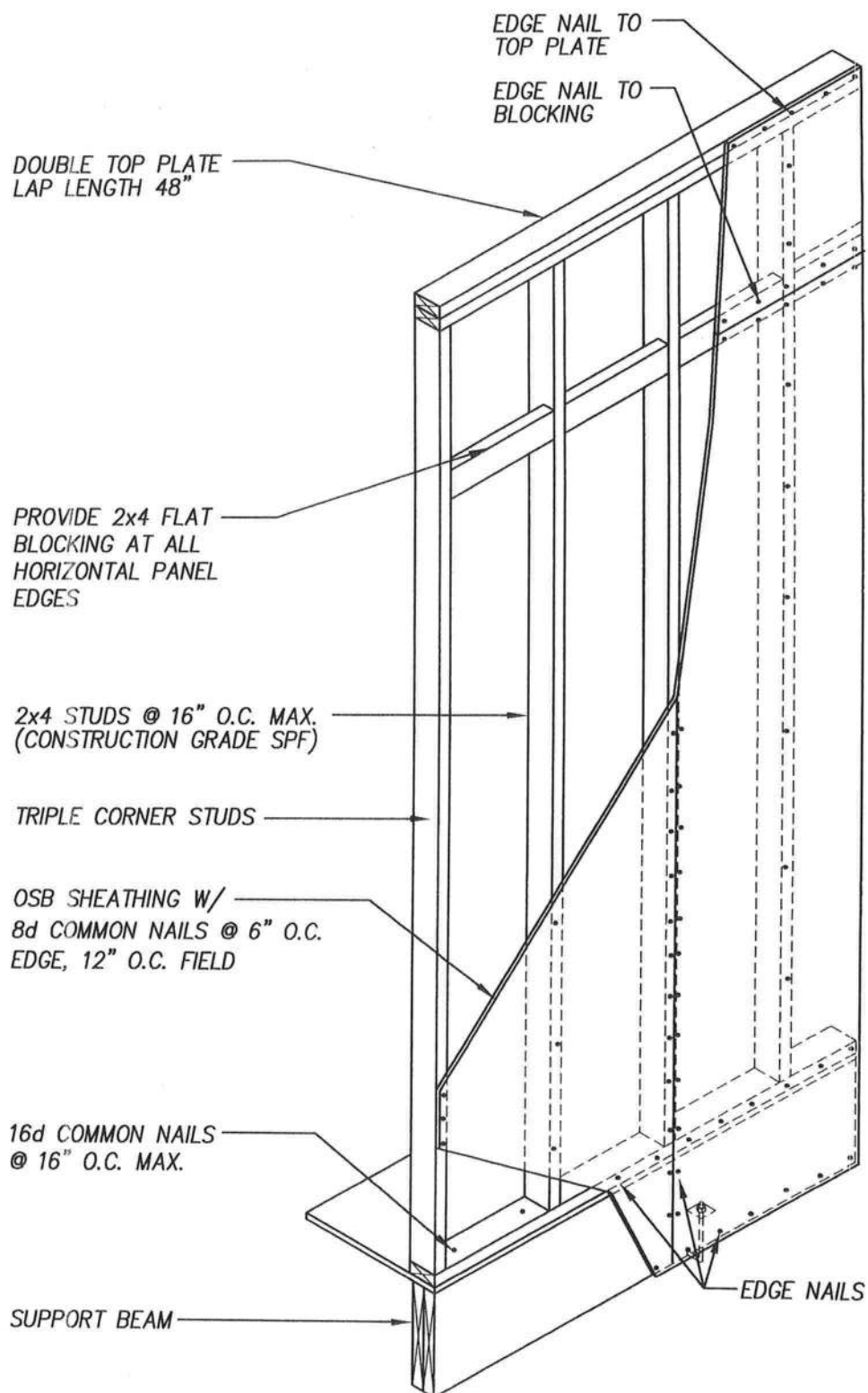




## Typical Floor Sheathing Detail

1/2" = 1'-0"

WOOD-F000

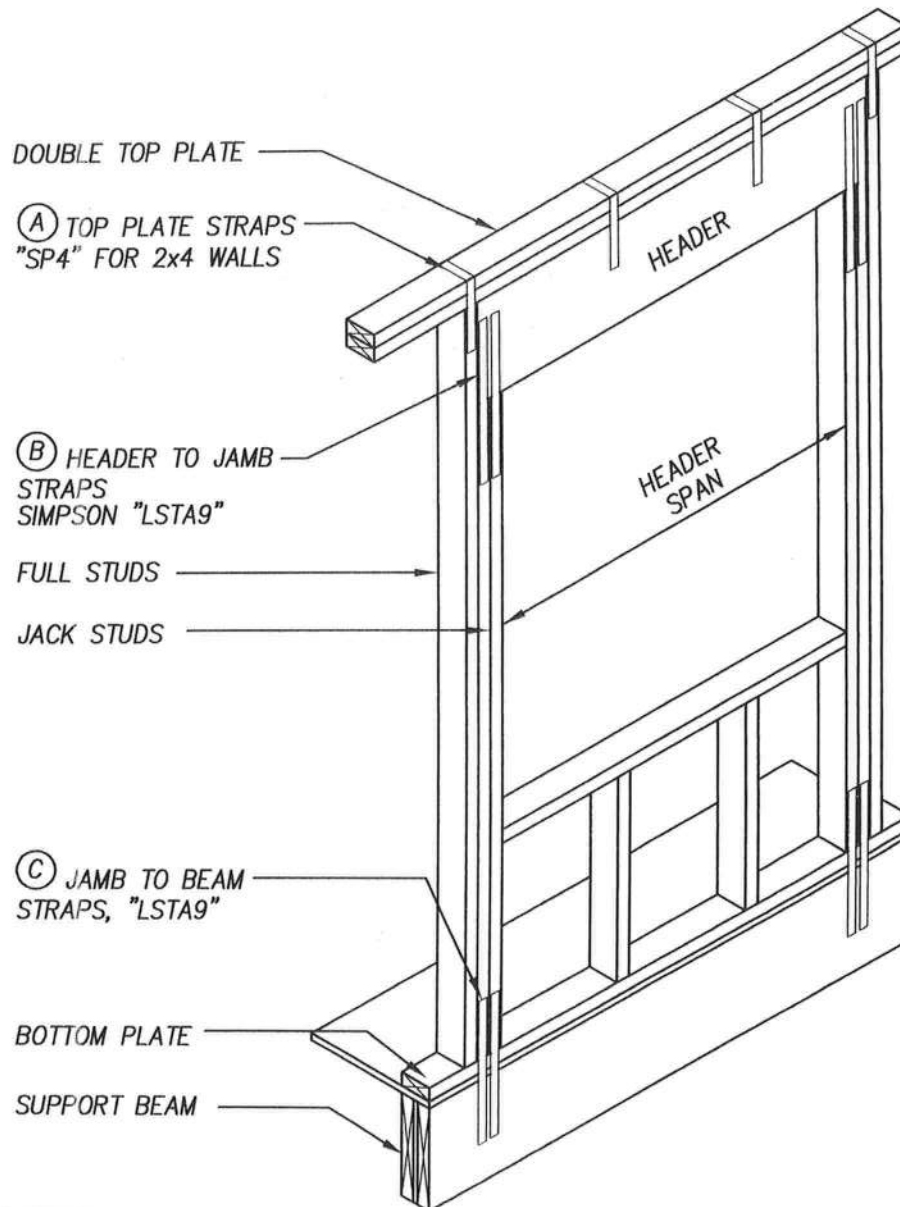


## Typical Exterior Bearing Wall

1/2" = 1'-0"

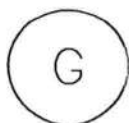
WOOD-W400G





HEADER SPAN (FT)	HEADER	QTY JACK STUDS	QTY FULL STUDS	STRAP (A) SPACING	STRAP (B) QTY	STRAP (C) QTY
4'-0"	(2) 2x4	1	1	NONE	1	1

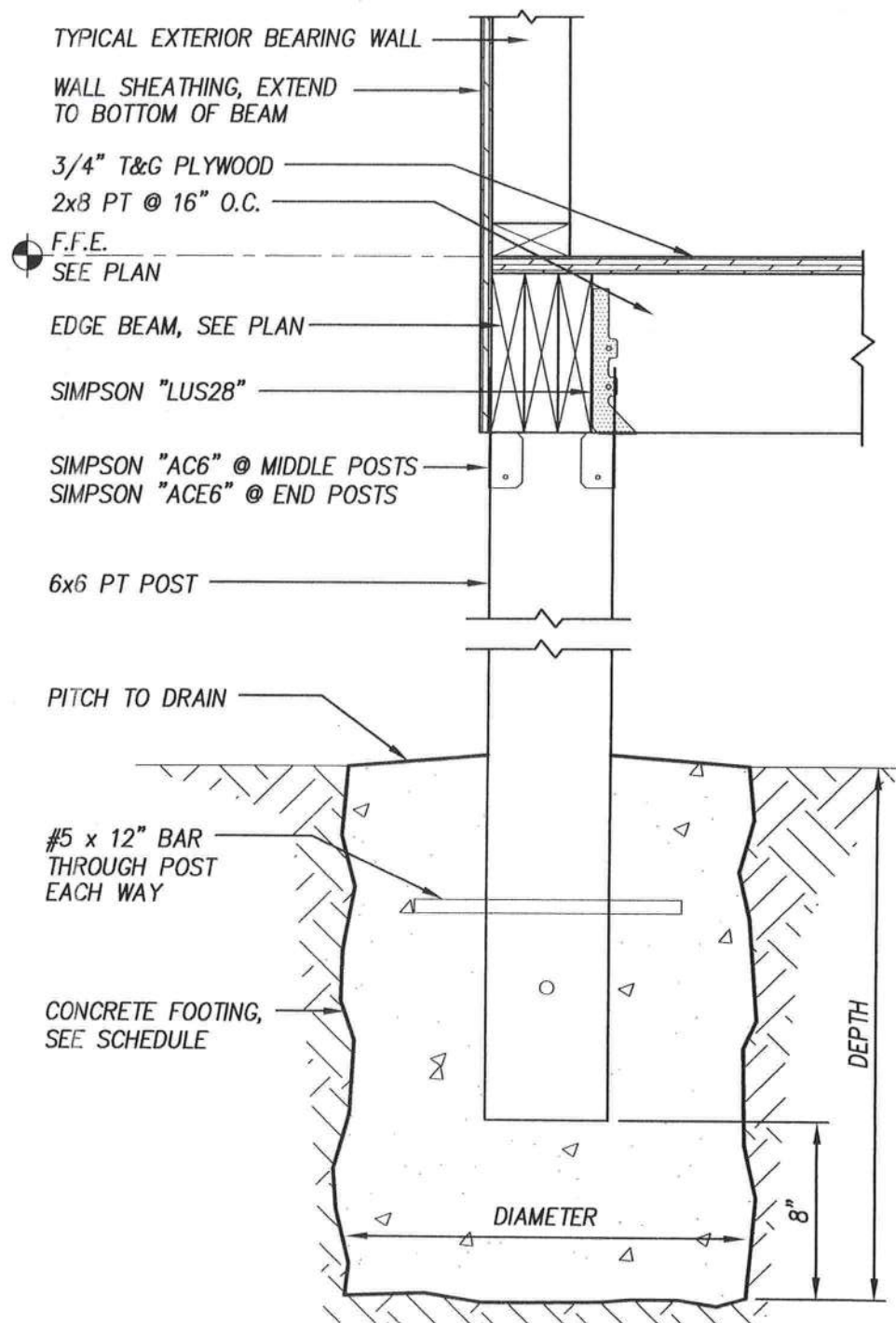
1. DIMENSIONAL LUMBER HEADERS - NO. 2 SOUTHERN PINE (SP).
2. ALL CONNECTORS ARE BY SIMPSON STRONG-TIE OR EQUIVALENT.
3. PROVIDE 1/2" OSB SPACER BETWEEN PLYS FOR DIMENSIONAL LUMBER.
4. FASTEN HEADER PLYS TOGETHER WITH 16d NAILS @ 12" O.C. STAGGERED.
5. FASTEN JAMB STUDS TOGETHER WITH 10d NAILS @ 12" O.C.



## Typical Header Schedule

1/2" = 1'-0"

WOOD-W300B

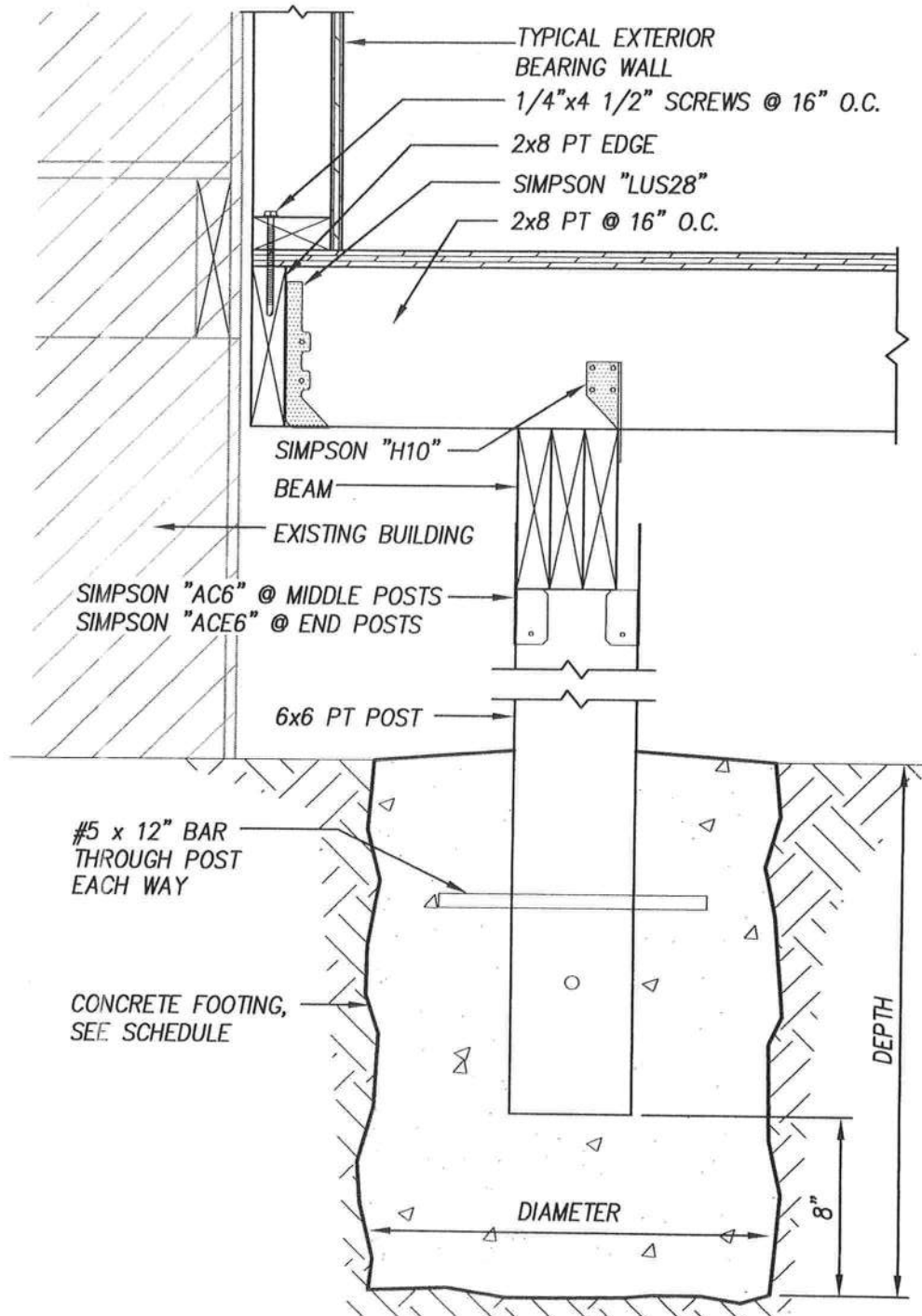


## Typical Edge Beam

1 1/2" = 1'-0"

WOOD-F204





## Typical Interior Beam

1 1/2" = 1'-0"

WOOD-F205

<b>WAYLAND STRUCTURAL ENGINEERING</b>			Date:
Gregory S. Wayland, PE	FL PE #54396	FL COA #8236	By: GSW
8200 SW 16th Place Gainesville, FL 32607	Ph/Fax 352-331-0727		Page: 13
Project Name: <b>WILLIAMS RESIDENCE ADDITION</b>		For:	
WSE Project Number: 11011			
Project Location: FORT WHITE, FLORIDA			

## STRUCTURAL INSULATED PANEL (SIP) BUILDING DESIGN

### A. DESIGN LOADS

1. Roof Dead Load	DL =	6	psf			
2. Roof Live Load	LL =	16	psf	(Slope 4:12 to 12:12)		
		20	psf	(Slope < 4:12)		
3. Wind Loads	Wind Speed	110	mph			
	Exposure	B				
	Importance	1.0				
	Enclosure	Fully Enclosed				
		Building	Overhangs			
a. Roof Uplift	Zone 1	18.1	40.6	End Strip	a =	3.00
	Zone 2	29.1	40.6	End Zone	z =	6.00
	Zone 3	29.1	42.4			
b. Walls	Zone 4	20.4				
	Zone 5	22.6				
c. MWFRS		Walls		Roof		
		Interior	End	Interior	End	
	Transverse	17.7	22.6	-3.9	-7.0	
	Longitudinal	12.7	19.2	-5.9	-10.0	

### B. HIGH ROOF PANEL DESIGN

1. Slope		0.5 / 12			
2. Span	L =	12.00	ft		
3. Overhang	OH =	2.00	ft		
4. Reactions	R Ridge =	117	plf		
	R Eave =	163	plf		
5. Uplifts	U Ridge =	142	plf		
	U Eave =	223	plf		
6. Roof Panel Selection					
a. From "STRUCTALL SNAP-N-LOCK" PANEL SPANS "ENCLOSED STRUCTURES,"					
Try:	4" - 26 GA. PANEL				
Allowable Span:	13.00	ft	OK		
b. From "STRUCTALL SNAP-N-LOCK" PANEL SPANS "DEAD/LIVE LOADS," (see appendix)					
Try:	4" - 26 GA. PANEL				
Allowable Span:	13.00	ft	OK		
c. Therefore, use	4" - 26 GA. STEEL "SNAP-N-LOCK" PANEL by STRUCTALL				
7. Roof Panel Connection to Ridge Member					
a. Base Material	WOOD				
b. Screw Size	#10				
c. Screw Spacing	12				
d. Allowable Pullout	229				
e. Actual Pullout	142				
f. Therefore, use	#10 SCREWS @ 12 INCHES O.C. AT RIDGE				
8. Roof Panel Connection to Eave Member					
a. Base Material	WOOD				
b. Screw Size	#10				
c. Screw Spacing	12				
d. Allowable Pullout	229				
e. Actual Pullout	223				
f. Therefore, use	#10 SCREWS @ 12 INCHES O.C. AT EAVE				



<b>WAYLAND STRUCTURAL ENGINEERING</b>			Date:
Gregory S. Wayland, PE	FL PE #54396	FL COA #8236	By: GSW
8200 SW 16th Place Gainesville, FL 32607	Ph/Fax 352-331-0727		Page: 14
Project Name: <b>WILLIAMS RESIDENCE ADDITION</b>		For: KURT JOHNSEN	
WSE Project Number: 11011			
Project Location: FORT WHITE, FL			

**VERTICAL WALL MEMBERS (STUDS & POSTS)**

Refer to Truss Engineering or Truss Uplift Calculations for calculations of vertical roof loads to be supported by walls.  
Refer to attached spreadsheets for individual stud or post design calculations.

**A. TYPICAL EXTERIOR BEARING WALL STUDS**

Stud Height H = 8.00 ft  
Stud Spacing s = 16 in

Load Case 1 - DL + LL

	Uniform Axial Load, (plf)	Axial Load (lb/stud)
Dead Load	38	51
Live Load	125	167
Total	163	217

Load Case 2 - 0.6DL + WL

	Uniform Axial Load, (plf)	Axial Load (lb/stud)
0.6 Dead	23	30
Wind Uplift	223	297

Lateral Wind

Pressure (psf)	Uniform load (plf)
22.6	30.1

USE: 2x4 STUDS @ 16" O.C., CONSTRUCTION GRADE SPRUCE-PINE-FIR (SPF)  
W/ DOUBLE 2x4 TOP PLATE, 2x4 P.T. BOTTOM PLATE & STRUCTURAL SHEATHING FULL HEIGHT ONE SIDE OF STUD

<b>WAYLAND STRUCTURAL ENGINEERING</b>			Date:
Gregory S. Wayland, PE	FL PE #54396	FL COA #8236	By: GSW
8200 SW 16th Place Gainesville, FL 32607	Ph/Fax 352-331-0727		Page: 15
Project Name: <b>WILLIAMS RESIDENCE ADDITION</b>		For: KURT JOHNSEN	
WSE Project Number:		-	
Project Location:		-	

# **HORIZONTAL WALL MEMBERS (HEADERS, BEAMS, GIRDERS)**

## **A. TYPICAL WALL HEADERS**

Dead Load	38	plf
Live Load	125	plf
Total	163	plf
Wind Uplift	223	plf

		Header Span, (ft)			
		3.00	4.00		
Uplift, (lb)	U =	335	446		
Shear, (lb)	V =	245	326		
Moment (in-lb)	M =	2,201	3,912		
Deflection (in)	delta total =	0.15	0.20		
	delta live =	0.10	0.13		
Area (in^2)	A =	2.2	2.9		
Section Mod. (in^3)	S =	1.8	3.2		
Mom. of Inertia (in^4)	I total =	1.2	2.9		
	I live =	1.4	3.4		
Header		(2) 2x4	(2) 2x4		
Straps	Plate to Hdr*	NONE	NONE		
	Hdr to Post	(1) LSTA9	(1) LSTA9		
Jamb Posts	Jack	1	1		
	Full	1	1		



**WAYLAND STRUCTURAL ENGINEERING**

Gregory S. Wayland, PE

FL PE #54396

FL COA #8236

8200 SW 16th Place Gainesville, FL 32607

Ph/Fax 352-331-0727

Date:

By: GSW

Page: 16

Project Name: **WILLIAMS RESIDENCE ADDITION**

For: KURT JOHNSEN

WSE Project Number:

Project Location:

**C. LATERAL ANALYSIS****1. Building Data**

Building Length L = 20.00 ft  
 Building Width B = 12.00 ft  
 Eave Height he = 8.00 ft  
 Peak ht above eave hp = 9.00 ft  
 Roof Slope 1 /12

Exposure Category **B**  
 Adjustment Coefficient **1.00**

**2. Edge Zone**

a = 0.10\*B 1.20 ft  
 a = 0.40\*h 3.20 ft  
 a = 1.20 ft  
 a = 0.04\*B 0.48 ft  
 a = 3.00 3.00 ft  
 a = 3.00 ft

**3. End Zone**

z = 2\*a = 6.00 ft

**4. LONGITUDINAL DIRECTION****MWFRS Wind Pressures:**

Wall Interior Zone 12.7 psf  
 Wall End Zone 19.2 psf  
 Roof Interior Zone -5.9 psf  
 Roof End Zone -10.0 psf

**Wall Shear Force:**

Interior 0.00 kips  
 End 0.92 kips  
 Total 0.92 kips

**Roof Shear Force:**

Interior 0.00 kips  
 End -0.02 kips  
 Total -0.02 kips  
 Use 0.00 kips

**Total Shear Force:**

V = 0.92 kips

**Roof Diaphragm Check:**

Diaphragm shear  
 Allowable shear

v = 23 plf  
 v = 240 plf  
 check OK

**Shear Wall Check:**

Shear wall length  
 Shear wall height  
 Shear in wall  
 Allowable shear

d = 14.00 ft  
 h = 8.00 ft  
 v = 33 plf  
 v = 260 plf  
 check OK

Overturning moment  
 Uplift at Corner

M = 3686 ft-lb  
 T = 184 lb

**5. TRANSVERSE DIRECTION****MWFRS Wind Pressures:**

Wall Interior Zone 17.7 psf  
 Wall End Zone 26.6 psf  
 Roof Interior Zone -3.9 psf  
 Roof End Zone -7.0 psf

**Wall Shear Force:**

Interior 0.57 kips  
 End 1.28 kips  
 Total 1.84 kips

**Roof Shear Force:**

Interior -0.14 kips  
 End -0.01 kips  
 Total -0.15 kips  
 Use 0.00 kips

**Total Shear Force:**

V = 1.84 kips

**Roof Diaphragm Check:**

Diaphragm shear  
 Allowable shear

v = 77 plf  
 v = 240 plf  
 check OK

**Shear Wall Check:**

Shear wall length  
 Shear wall height  
 Shear in wall  
 Allowable shear

d = 9.00 ft  
 h = 8.00 ft  
 v = 102 plf  
 v = 260 plf  
 check OK

Overturning moment  
 Uplift at Corner

M = 7373 ft-lb  
 T = 369 lb

**WALL SHEATHING:**

USE: 7/16" THICK ORIENTED STRAND BOARD (OSB), SHEATHING GRADE  
 W/ 8d COMMON NAILS @ 6" O.C. AT PANEL EDGES, 12" O.C. AT PANEL INTERIOR,  
 W/ SOLID 2x4 BLOCKING AT ALL PANEL EDGES

<b>WAYLAND STRUCTURAL ENGINEERING</b>		Date:
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Project Name: <b>WILLIAMS RESIDENCE ADDITION</b>		For:
WSE Project Number: 11011		
Project Location: FORT WHITE, FLORIDA		

### TYPICAL FLOOR JOISTS

$$W_d = (1.33)(10) = 13$$

$$W_e = (1.33)(40) = 53$$

$$w = 66 \text{ plf}$$

$$P_d = [(12/2)(20) + (8)(10)] 1.33 = 266$$

$$P_e = 266$$

$$P = 532 \text{ lb}$$

$$U = (149/2)(1.33) = 99 \text{ lb}$$

$$R_A = 312$$

$$R_B = 1012 \text{ lb}$$

$$U_A = -9 \text{ lb}$$

$$U_B = 108 \text{ lb}$$

$$V_{\text{max}} = 598 \text{ lb}$$

$$\text{backspan } M_{\text{max}} = 1298 \times 12 = 15576 \text{ in} \cdot \text{lb}$$

$$\text{(cant.) } M_{\text{max}} = 565 \times 12 = 6780 \text{ in} \cdot \text{lb}$$

$$U_{\text{og}} \approx 8(1298)/11^2 = 86 \text{ plf}$$

$$U_{\text{eg}} \approx 86(53/66) = 69 \text{ plf}$$

$$A = 598 / (90 \times 1.15 \times 1.25) = 4.6 \text{ in}^2$$

$$S = 15576 / (1200 \times 1.25 \times 1.15) = 9.0 \text{ in}^3$$

$$\Delta_e = 132 / 360 = 0.37 \text{ in}$$

$$I_e = \frac{5(69/2) 132^4}{384 (1.6 \times 10^6) 0.37} = 38.4 \text{ in}^4$$

$\therefore$  USE  $[2 \times 8 \text{ PT JOISTS @ } 16" \text{ OC. (NO 2 SP)}]$

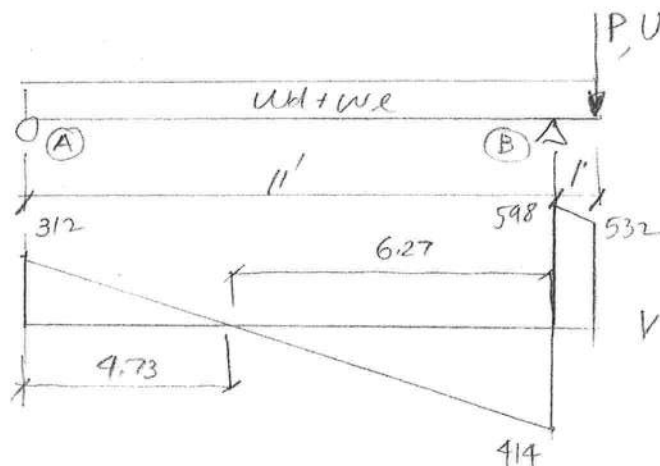
### connectors

$$U = 108 \text{ lb}$$

$$F_2 = (22.6)(P)(1.33) = 240 \text{ lb}$$

try H10"

$$I = \frac{108}{990} + \frac{240}{575} = 0.57 < 1.0 \text{ OK}$$





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WSE Project Number: 11011		
Project Location: FORT WHITE, FLORIDA		

TYPICAL SIDE FLOOR BEAM  $L = 6'-8"$

$$U_d = 8(20) + 8(10) + (6)(10) = 300$$

$$U_l = 8(20) + (6)(40) = 400$$

$$w = 700 \text{ plf}$$

$$U = (289/2) - (8)(10) = 62 \text{ plf}$$

$$V = 700(6.67/2) = 2335 \text{ lb/end}$$

$$P = 4669 \text{ lb/post}$$

$$U = 62(6.67/2) = 207 \text{ lb/end}$$

$$U = 414 \text{ lb/post}$$

$$M = 1/8(700)6.67^2 \times 12 = 46,713 \text{ in. lb.}$$

$$\Delta = 80/240 = 0.33 \text{ in.}$$

$$A = 2335 / (90 \times 1.25) = 20.8 \text{ in}^2$$

$$S = 46,713 / (1200 \times 1.25) = 31.1 \text{ in}^3$$

$$I = \frac{5(700/2)80^4}{384(1.6 \times 10^6)0.33} = 58.9 \text{ in}^4$$

$\therefore$  USE (3) 2X8 PT. BEAM (NO. 2 SP)

connections

$$U = 414$$

$$F_2 = \{(19.2 \times 6 \times 2) + (12.7 \times 8)\} 8/8 = 332 \text{ lb}$$

for "AC6"

$$U = 2500, F = 1070$$

$$I = \frac{414}{2500} + \frac{332}{1070} = 0.48 < 1.0 \text{ OK}$$

$\therefore$  USE SIMPSON "AC6" FOR MIDDLE POSTS  
SIMPSON "ACE6" FOR END POSTS

FOOTINGS

$$P = 4669 \text{ lb.}$$

$$U = 207 \text{ lb}$$

$$V = 332 \text{ lb.}$$

$$M = 332(2) = 664 \text{ ft. lb.}$$

see attached spreadsheet.

$\therefore$  USE 1'-6" DIA. x 3'-0" DEEP FOOTING

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Project Name: <b>WILLIAMS RESIDENCE ADDITION</b>		For:	
WSE Project Number: 11011			
Project Location: FORT WHITE, FLORIDA			

TYPICAL FLOOR END BEAM  $L = 12'$

$$W_d = (3)(20) + (8)(10) + 0.67(10) = 147$$

$$W_L = (3)(20) + (0.67)(40) = 87$$

$$W = 234 \text{ PL}$$

$$V = 234(12/2) = 1404 \text{ lb}$$

$$M = 1/8(234)12^2 \times 12 = 50544$$

$$\Delta = 144/243 = 0.6$$

$$A = 1404 / (90 \times 1.25) = 12.5 \text{ in}^2$$

$$S = 50544 / (20 \times 1.25) = 33.7 \text{ in}^3$$

$$I = 5(234/12)144^4 / 384(1.6 \times 10^4)0.6 = 114 \text{ in}^4$$

USE (3) 2X8 PT BEAM (NO. 25D)  
w/ SIMPSON "HUC26-3"



INTERACTION EQUATION =	0.170	USE	No. 2	SPF	2x4 @ 16" o.c.
------------------------	-------	-----	-------	-----	----------------

E. Column Design			
<u>Column Stability Factor</u>			
c =	0.80	sawn lumber	
KcE =	0.30	visually graded lumber	
Le/d =	27	<= 50, OK	
Fce =	518	psi	
Fce/Fc* =	0.201		
Cp =	0.19		
<u>Beam Stability Factor</u>			
Rb =	12.22		
KbE =	0.439	visually graded lumber	
Fbe =	3,822		
Fbe/Fb* =	2.08		
CL =	0.61		
CL =	1.00		
<u>Shear Check</u>			
Fv' =	193	psi	
fvx =	34	psi	OK
fvv =	0	psi	OK
<u>Deflection Check</u>			
allowable deltax =	0.53	in	
calculated deltax =	0.40	in	OK
allowable deltax =	0.07	in	
calculated deltax =	0.00	in	OK
<u>Bearing Area Check</u>			
calculated fg =	41	psi	
allowable Fg' =	1,220	psi	OK
<u>Dead + Live Load</u>			
A req'd =	0.44	in^2	OK
fc =	41	psi	
Fc' =	495	psi	
Interaction Equation =	0.08		NDS 3.9-3
<u>Dead + Wind Load</u>			
fc =	41	psi	
fb =	940	psi	
Fc' =	495	psi	
Fb' =	1,840	psi	
Interaction Equation =	0.56		NDS 3.9-3
INTERACTION EQUATION = 0.565 USE No. 2 SPF 2x4 @ 16" o.c.			

E. Column Design			
<u>Column Stability Factor</u>			
c =	0.80	sawn lumber	
KcE =	0.30	visually graded lumber	
Le/d =	4	<= 50, OK	
Fce =	18906	psi	
Fce/Fc* =	19.572		
Cp =	0.99		
<u>Beam Stability Factor</u>			
Rb =	2.09		
KbE =	0.439	visually graded lumber	
Fbe =	120,725		
Fbe/Fb* =	77.19		
CL =	0.99		
CL =	0.99		
<u>Shear Check</u>			
Fv' =	276	psi	
fvx =	1	psi	OK
fvv =	0	psi	OK
<u>Deflection Check</u>			
allowable deltax =	0.13	in	
calculated deltax =	0.00	in	OK
allowable delay =	0.13	in	
calculated delay =	0.00	in	OK
<u>Bearing Area Check</u>			
calculated fg =	77	psi	
allowable Fg' =	1,220	psi	OK
<u>Dead + Live Load</u>			
A req'd =	2.44	in^2	OK
fc =	77	psi	
Fc' =	956	psi	
Interaction Equation =	0.08		NDS 3.9-3
<u>Dead + Wind Load</u>			
fc =	77	psi	
fb =	196	psi	
Fc' =	956	psi	
Fb' =	1,545	psi	
Interaction Equation =	0.14		NDS 3.9-3
INTERACTION EQUATION = 0.144 USE NO. 2 SP 6x6			



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Project Name: <b>WILLIAMS RESIDENCE ADDITION</b> Project Number: <b>11011</b> Project Location: <b>FORT WHITE, FL</b>			For:

## POLE FOOTING DESIGN

Florida Building Code 2007 + 2009 Supplement

### MEMBER DESCRIPTION:

### TYPICAL FLOOR POST FOOTING

#### A. Pole Loading

##### a. Axial Loads

DL =	2.335	kips
LL =	2.335	kips
Total =	4.670	kips
U =	0.207	kips
V =	0.332	kips
M =	0.664	k-ft

##### b. Uplift Load

##### c. Base shear

##### d. Base Moment

#### B. Soil Properties

##### a. Soil type

##### b. Allow. bearing pressure

##### c. Allow. lateral brg. pressure

##### d. Friction factor for uplift

##### e. Safety factor against uplift

	<b>Sand</b>	
Bv =	3,000	psf
Bh =	150	psf
c =	0.10	
SF =	1.00	

#### C. Footing Properties

##### a. Trial footing diameter

##### b. Trial footing depth

##### c. Bearing area

##### d. Footing weight

B =	1.50	ft
D =	3.00	ft
A =	1.77	sq. ft
W =	0.80	kips

#### C. Footing Design

##### a. Load Case 1 - DL + LL (Axial Load Only)

Required bearing area,  $A = P/B_v$

0.78 sq. ft OK

##### b. Load Case 2 - DL + W<sub>L</sub> (Uplift)

Friction force against uplift,  $F = \pi \cdot B \cdot (H-1) \cdot c$

Total Resisting Force,  $U = F + W + DL$

Required resisting force,  $W = U \cdot SF$

0.94 kips  
4.07 kips

0.21 kips OK

##### c. Load Case 3 - DL + W<sub>L</sub> (Overturning)

Resisting Moment,  $M_r = (W + DL) \cdot B/2$

Net Overturning Moment,  $M_o = M - M_r$

Required footing depth,  $H$

2.35 k-ft  
0.00 k-ft

2.32 ft OK