DATE 12/11/2009

Columbia County Building Permit

This Permit Must Be Prominently Posted on Premises During Construction

PERMIT
000028265

APPLICANT ROBERT CLARK PHONE 352 538-9697

ADDRESS 27607 NCR 1491 ALACHUA FL 32615

OWNER LUIS & MINERVA ALVARES PHONE 454-4665

ADDRESS 162 SW NORMANDY DRIVE FT. WHITE FL 32038

CONTRACTOR ROBERT CLARK PHONE 352 538-9697

LOCATION OF PROPERTY 441S, TR ON CR 138, TR NORMANDY DRIVE, 1ST DRIVE ON LEFT

TYPE DEVELOPMENT SFD,UTILITY ESTIMATED COST OF CONSTRUCTION 94200.00

HEATED FLOOR AREA 1868.00 TOTAL AREA 1884.00 HEIGHT ____ STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 5/12 FLOOR SLAB

LAND USE & ZONING A-3 MAX. HEIGHT ____

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 26-7S-16-04323-032 SUBDIVISION FAIRVIEW ESTATES

LOT 32 BLOCK ____ PHASE ____ UNIT ____ TOTAL ACRES 1.20

Culvert Permit No.	Culvert Waiver	Contractor's License Number	Applicant/Owner/Contractor
		CBC1256838	

Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident
EXISTING	09-586	BK	WR	N

COMMENTS: LEGAL NON-CONFORMING LOT OF RECORD, EXISTING MH TO BE REMOVED
45 DAYS AFTER CO IS ISSUED

Check # or Cash 1129

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 $ 475.00 CERTIFICATION FEE $ 9.42 SURCHARGE FEE $ 9.42

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** 568.84

INSPECTORS OFFICE ____ CLERKS OFFICE CN

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.

CCW 3217062561 01 2306
SBK 11/25

STATE OF FLORIDA
DEPARTMENT OF HEALTH
ONSITE SEWAGE DISPOSAL SYSTEM
APPLICATION FOR CONSTRUCTION PERMIT

PERMIT NO. 943569
DATE PAID: 11/24/09
FEE PAID: 425.00
RECEIPT #: 1205900

APPLICATION FOR:
[✓] New System [ ] Existing System [ ] Holding Tank [ ] Innovative
[ ] Repair [ ] Abandonment [ ] Temporary [ ] ______

APPLICANT: Luis and Minerva Alvarez

AGENT: Robert Clark TELEPHONE: 352-538-9697

MAILING ADDRESS: 27607 NCR 1491 Alachua Fl 32615

TO BE COMPLETED BY APPLICANT OR APPLICANT'S AUTHORIZED AGENT. SYSTEMS MUST BE CONSTRUCTED BY A PERSON LICENSED PURSUANT TO 489.105(3)(m) OR 489.552, FLORIDA STATUTES.

PROPERTY INFORMATION

LOT: 32 BLOCK: ____ SUBDIVISION: Fairview estates PLATTED: 78

PROPERTY ID #: 26-7S-16 R04323-032 ZONING: SF1 I/M OR EQUIVALENT: [Y / (N)]

PROPERY SIZE: 1.2 ACRES WATER SUPPLY: [✓] PRIVATE PUBLIC [ ]<=2000GPD [ ]>2000GPD

IS SEWER AVAILABLE AS PER 381.0065, FS? [Y / (N)] DISTANCE TO SEWER: NA FT

PROPERTY ADDRESS: 160 SW Normandy Drive Fort white Fl 32038

DIRECTIONS TO PROPERTY: SR47 South turn Left on CR138 turn Left on Normandy Drive First Drive on Left

BUILDING INFORMATION [✓] RESIDENTIAL [ ] COMMERCIAL

Unit No	Type of Establishment	No. of Bedrooms	Building Area Sqft	Commercial/Institutional System Design Table 1, Chapter 64E-6, FAC
1	House	~~3~~ 4	1884	
2				
3				
4				

Held for SSone, cleared 11.25.09

[ ] Floor/Equipment Drains [ ] Other (Specify) ______

SIGNATURE: [signature] DATE: 11-10-09

DH 4015, 10/97 – Page 1 (Previous editions may be used)
Stock Number: 5744-001-4015-1

RECEIVED 11-23-09

STATE OF FLORIDA
DEPARTMENT OF HEALTH
ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM

PERMIT #: 12-SC-1080328
APPLICATION #: AP943569
DATE PAID: 11/24/09
FEE PAID: 425.00
RECEIPT #: 1205900
DOCUMENT #: PR791969

CONSTRUCTION PERMIT FOR: OSTDS New

APPLICANT: LUIS**09-0586 ALVAREZ

PROPERTY ADDRESS: 160 SW NORMANDY Dr Fort White, FL 32038

LOT: 32 BLOCK: SUBDIVISION: Fairview Estates

PROPERTY ID #: 26-7S-16-04323-032 [SECTION, TOWNSHIP, RANGE, PARCEL NUMBER] [OR TAX ID NUMBER]

SYSTEM MUST BE CONSTRUCTED IN ACCORDANCE WITH SPECIFICATIONS AND STANDARDS OF SECTION 381.0065, F.S., AND CHAPTER 64E-6, F.A.C. DEPARTMENT APPROVAL OF SYSTEM DOES NOT GUARANTEE SATISFACTORY PERFORMANCE FOR ANY SPECIFIC PERIOD OF TIME. ANY CHANGE IN MATERIAL FACTS, WHICH SERVED AS A BASIS FOR ISSUANCE OF THIS PERMIT, REQUIRE THE APPLICANT TO MODIFY THE PERMIT APPLICATION. SUCH MODIFICATIONS MAY RESULT IN THIS PERMIT BEING MADE NULL AND VOID. ISSUANCE OF THIS PERMIT DOES NOT EXEMPT THE APPLICANT FROM COMPLIANCE WITH OTHER FEDERAL, STATE, OR LOCAL PERMITTING REQUIRED FOR DEVELOPMENT OF THIS PROPERTY.

SYSTEM DESIGN AND SPECIFICATIONS

T [1,050] GALLONS / GPD CAPACITY
A [ ] GALLONS / GPD N/A CAPACITY
N [ ] GALLONS GREASE INTERCEPTOR CAPACITY [MAXIMUM CAPACITY SINGLE TANK:1250 GALLONS]
K [ ] GALLONS DOSING TANK CAPACITY [ ]GALLONS @[ ]DOSES PER 24 HRS #Pumps [ ]

D [500] SQUARE FEET SYSTEM
R [ ] SQUARE FEET N/A SYSTEM
A TYPE SYSTEM: [X] STANDARD [ ] FILLED [ ] MOUND [ ]
I CONFIGURATION: [X] TRENCH [ ] BED [ ]
N
F LOCATION OF BENCHMARK: Nail with orange ribbon in fence post East of site.
I ELEVATION OF PROPOSED SYSTEM SITE [6.00] [INCHES / FT] [ABOVE / BELOW] BENCHMARK/REFERENCE POINT
E BOTTOM OF DRAINFIELD TO BE [24.00] [INCHES / FT] [ABOVE / BELOW] BENCHMARK/REFERENCE POINT
L
D FILL REQUIRED: [0.00] INCHES EXCAVATION REQUIRED: [0] INCHES

O T H E R: The licensed contractor installing the system is responsible for installing the minimum category of tank in accordance with s. 64E-6.013(3)(f), FAC.

SPECIFICATIONS BY: Jeremy X Gifford TITLE: ESI

APPROVED BY: Jeremy X Gifford TITLE: ESI Columbia CHD

DATE ISSUED: 12/02/2009 EXPIRATION DATE: 06/02/2011

DH 4016, 10/97 (Previous Editions May Be Used) Page 1 of 3

v 1.1.3 AP943569 CR902223

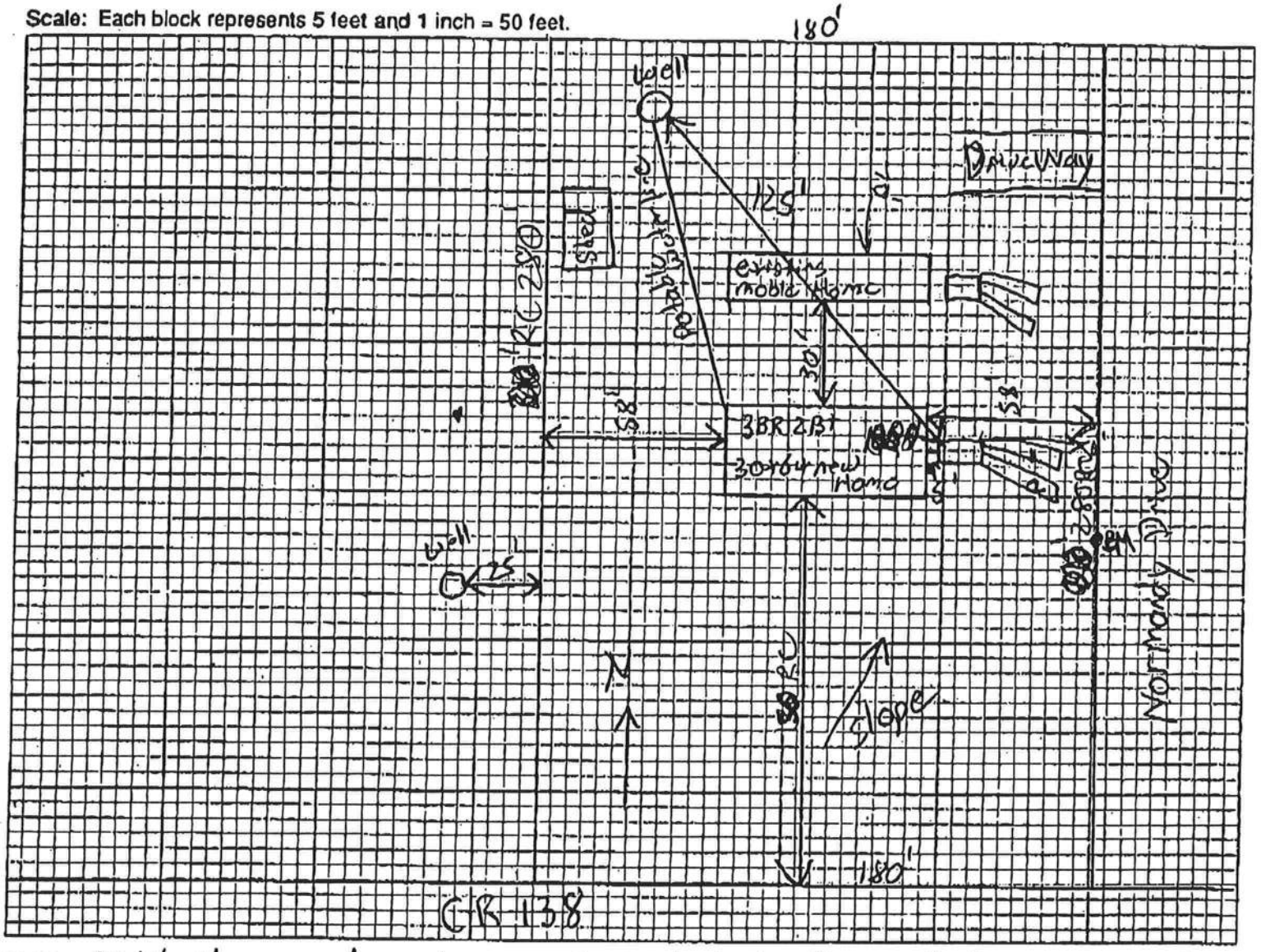
STATE OF FLORIDA
DEPARTMENT OF HEALTH

APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 09-0586

PART II - SITE PLAN

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



Notes: Mobile Home and existing septic tank to be Removed From property prior to Final Inspection

Site Plan submitted by: [signature] Signature agent Title

Plan Approved X Not Approved _____ Date 12/2/09

By [signature] Columbia County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

RETURN TO

U. S. Title
642 N.E. Santa Fe
High Springs, FL 32643
15H-4115

THIS INSTRUMENT WAS PREPARED BY:
FIRST FEDERAL BANK OF FLORIDA
4705 WEST U.S. HIGHWAY 90
P.O. BOX 2029
LAKE CITY, FLORIDA 32056

PERMIT NO. _____ TAX FOLIO NO. R04323-032

NOTICE OF COMMENCEMENT

STATE OF FLORIDA
COUNTY OF Columbia

The undersigned hereby gives notice that improvement will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.

1. Description of property: 162 SW Normandy Drive Fort White, FL 32038

2. General description of improvement: **Construction of Dwelling**

3. Owner information:
   a. Name and address: Luis E. & Minerva Alvarez 162 SW Normandy Drive Fort White, FL 32038.
   b. Interest in property: **Fee Simple**
   c. Name and address of fee simple title holder (if other than Owner): **NONE**

4. a. Contractor (name and address): R & M Construction 27607 NCR 1491 Alachua FL 32615
   b. Contractor's phone number 352-538-9697

5. Surety:
   a. Name and address: _____
   b. Phone Number _____
   c. Amount of bond: _____

6. Lender: **FIRST FEDERAL BANK OF FLORIDA**
4705 WEST U.S. HIGHWAY 90
P. O. BOX 2029
LAKE CITY, FLORIDA 32056
(386) 755-0600

Inst 200912018790 Date 11/9/2009 Time 10:52 AM
DC P.DeWitt Cason Columbia County Page 1 of 1 B 1183 P 2499

7. Persons within the State of Florida designated by Owner upon whom notices or other document may be served as provided by Section 713.13 (1) (a) 7., Florida Statutes: **NONE**

8. In addition to himself, Owner designates **PAULA HACKER of FIRST FEDERAL BANK OF FLORIDA, 4705 West U.S. Highway 90 / P. O. Box 2029, Lake City, Florida 32056** to receive a copy of the Lienor's Notice as provided in Section 713.13 (1) (b), Florida Statutes.

9. Expiration date of notice of commencement (the expiration date is 1 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 WITH YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

Luis Alvarez Minerva Alvarez
Signature of Owner or Owner's Authorized Officer/Director Partner/Manager

_____
Signatory's Title/Office

The foregoing instrument was acknowledged before me this 3rd day of November, 2009 by Luis Alvarez & Minerva Alvarez. (name of person) as owners (type of authority, e.g. officer, trustee, attorney in fact) for: _____ (name of party on behalf of whom instrument was executed.

INGER MCRAE
Commission DD719716
Expires October 1, 2011
Bonded Thru Troy Fain Insurance 800-385-7019

Inger McRae
Signature of Notary Public – State of Florida
Print, Type, or Stamp Commission Name of Notary
Public Commission Number: DD 719716
Personally Known _____ or Produced Identification FL DL

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.

Luis Alvarez Minerva Alvarez
Signature of Natural Person Signing Above

RETURN TO

U. S. Title
642 N.E. Santa Fe Blvd.
High Springs, FL 32643
ASH-4115

THIS INSTRUMENT WAS PREPARED BY:
FIRST FEDERAL BANK OF FLORIDA
4705 WEST U.S. HIGHWAY 90
P.O. BOX 2029
LAKE CITY, FLORIDA 32056

PERMIT NO. _____ TAX FOLIO NO. R04323-032

NOTICE OF COMMENCEMENT

STATE OF FLORIDA
COUNTY OF Columbia

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1. Description of property: 162 SW Normandy Drive Fort White, FL 32038

2. General description of improvement: **Construction of Dwelling**

3. Owner information:
   a. Name and address: Luis E. & Minerva Alvarez 162 SW Normandy Drive Fort White, FL 32038.
   b. Interest in property: **Fee Simple**
   c. Name and address of fee simple title holder (if other than Owner): **NONE**

4. a. Contractor (name and address): R & M Construction 27607 NCR 1491 Alachua, FL 32615
   b. Contractor's phone number 352-538-9697

5. Surety:
   a. Name and address: _____
   b. Phone Number _____
   c. Amount of bond: _____

6. Lender: **FIRST FEDERAL BANK OF FLORIDA**
4705 WEST U.S. HIGHWAY 90
P. O. BOX 2029
LAKE CITY, FLORIDA 32056
(386) 755-0600

Inst 200912018790 Date 11/9/2009 Time 10:52 AM
DC P DeWitt Cason Columbia County Page 1 of 1 B 1183 P 2499

7. Persons within the State of Florida designated by Owner upon whom notices or other document may be served as provided by Section 713.13 (1) (a) 7., Florida Statutes: NONE

8. In addition to himself, Owner designates **PAULA HACKER of FIRST FEDERAL BANK OF FLORIDA, 4705 West U.S. Highway 90 / P. O. Box 2029, Lake City, Florida 32056** to receive a copy of the Lienor's Notice as provided in Section 713.13 (1) (b), Florida Statutes.

9. Expiration date of notice of commencement (the expiration date is 1 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 WITH YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

Luis Alvarez Minerva Alvarez
Signature of Owner or Owner's Authorized Officer/Director Partner/Manager

_____
Signatory's Title/Office

The foregoing instrument was acknowledged before me this 2nd day of November, 2009 by Luis Alvarez & Minerva Alvarez. (name of person) as owners (type of authority, e.g. officer, trustee, attorney in fact) for: _____ (name of party on behalf of whom instrument was executed.

INGER MCRAE
Commission DD719716
Expires October 1, 2011
Bonded Thru Troy Fain Insurance 800-385-7019

Inger McRae
Signature of Notary Public – State of Florida
Print, Type, or Stamp Commission Name of Notary
Public Commission Number: DD 719716.
Personally Known _____ or Produced Identification FL DL

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.

Luis Alvarez Minerva Alvarez
Signature of Natural Person Signing Above

REC 6.00
D/S 70.00

RETURN TO
USH - 1294

U. S. Title
642 N.E. Santa Fe Blvd.
High Springs, FL 32643

99-05910

FILED AND RECORDED IN PUBLIC RECORDS OF COLUMBIA COUNTY, FL
1999 APR -7 PM 12:32

[Space Above This Line for Recording Data]

Parcel I.D. No.: 26-7S-16-04323-032

WARRANTY DEED

This Indenture made this **30th** day of **March, 1999** BETWEEN **HOBSON C. COTHRAN and ANN R. COTHRAN, his wife**, GRANTOR*, whose post office address is P.O. BOX 45, ALACHUA, FL, and **LUIS E. ALVAREZ and MINERVA ALVAREZ, husband and wife**, GRANTEE*, whose post office address is RT 2 BOX 172 LOT 4 , HIGH SPRINGS, FL 32643.

W I T N E S S E T H, That said Grantor, for and in consideration of the sum of TEN AND 00/100'S ($10.00) Dollars and other good and valuable considerations to said grantor in hand paid by said grantee, the receipt whereof is hereby acknowledged, has granted, bargained and sold to the grantee and grantee's heirs forever the following described land located in the County of ~~ALACHUA~~ COLUMBIA State of Florida, to-wit:

Lot #32 of FAIRVIEW ESTATES, a subdivision as per plat thereof recorded in Plat Book 4, Page 85 of the Public Records of Columbia County, Florida.

COLUMBIA COUNTY BUILDING DEPARTMENT
Received for FILE COPY
Code Compliance
PLANS EXAMINER

Doc. Stamp $ 70.00
Intangible Tax 6
P. DeWitt Cason
Clerk of Court
By D.C.

and said grantor does hereby fully warrant the title to said land, and will defend the same against the lawful claims of all persons whomsoever.

*Singular and plural are interchangeable as context requires.

IN WITNESS WHEREOF, Grantor has hereunto set grantor's hand and seal this day and year first above written.

WITNESSES

Inger McRae
Typed Name: INGER McRAE

Denise F. Roden
Typed Name: DENISE F. RODEN

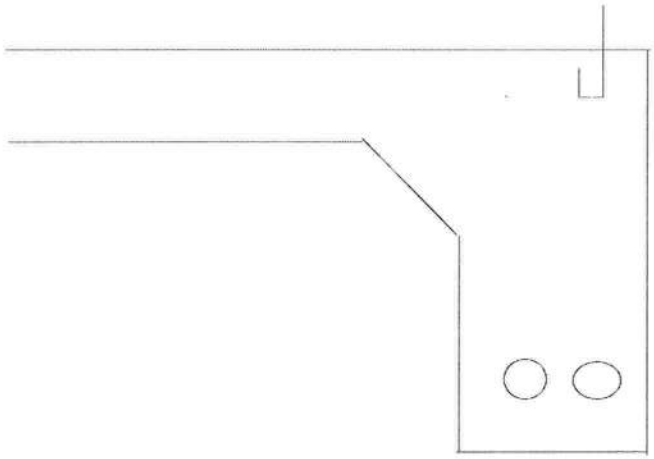
Hobson C. Cothran
HOBSON C. COTHRAN

Ann R. Cothran
ANN R. COTHRAN

COUNTY OF ALACHUA
STATE OF FLORIDA

THE FOREGOING INSTRUMENT was acknowledged before me on **March 30th, 1999 by HOBSON C. COTHRAN and ANN R. COTHRAN, his wife** who is/are personally known to me or have produced their Driver's Licenses as identification.

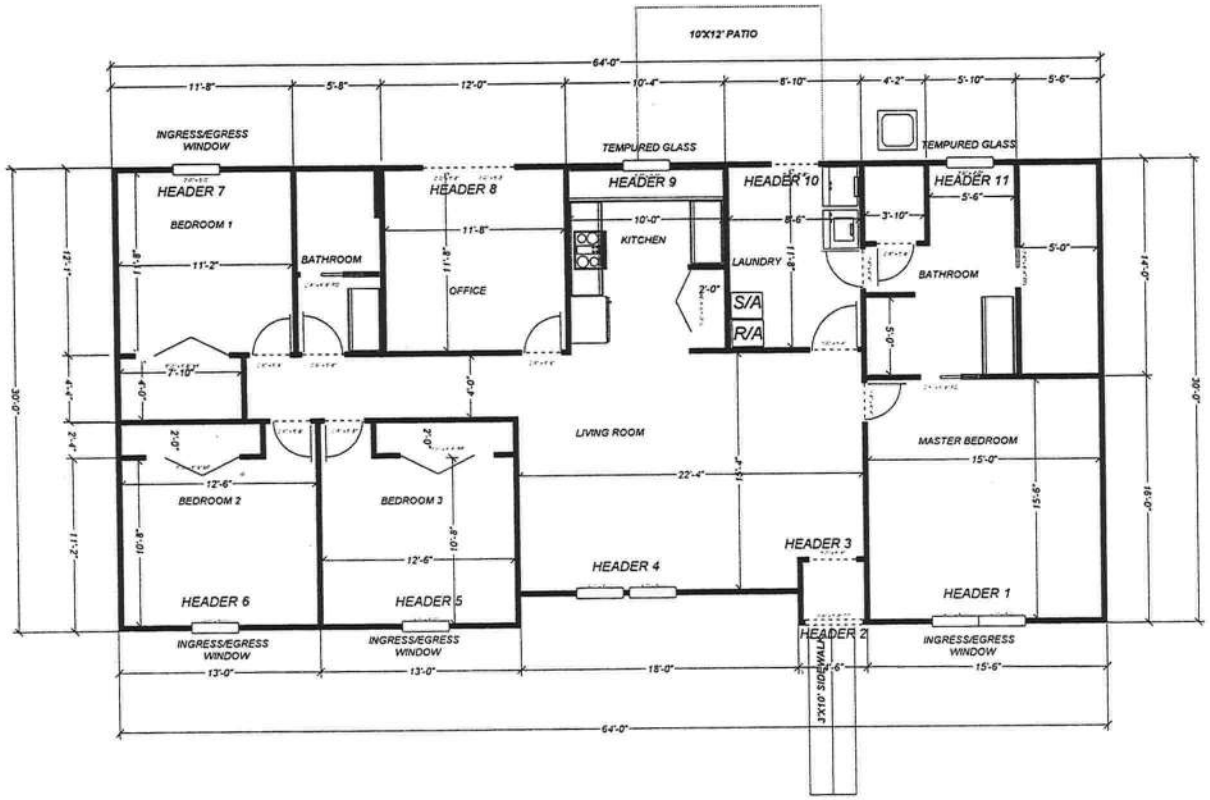
TYPICAL MONO SLAB CROSS SECTION



12"X20" MONO SLAB
2#5 REBAR
300PSI CONCRETE
CLEAN CONPACTED FILL
1/2" X 8" J BOLTS WITH 2" WASHERS
TERMITE TREATED SOIL
6MIL VAPOR BARRIER

TRUSS ANCHOR SCHEDUAL FOR ALVAREZ			
TRUSS #	UPLIFT	ANCHOR	HOLD DOWN
CJ1	332	H2.5	535
CJ3	258	H2.5	535
CJ5	263	H2.5	535
EJ7	193	H2.5	535
HJ9	474	H2.5	535
TO1	823	H10	1015
TO2	356	H2.5	535
TO3	369	H2.5	535
TO4	274/393	H2.5	535
TO5	280/399	H2.5	535
TO6	398/398	H2.5	535
TO7	718/774	H10	1015
TO8	344	H2.5	535
TO9	366	H2.5	535
T10	379	H2.5	535
T11	385	H2.5	535
T12	2192/1890	2-LGT2 EACH END	1850 EACH
T12G	2530	4-LSTA 24	1235 EACH
T13	280	H2.5	535
T13G	1994	4-LSTA 24	1235 EACH
T14	176	H2.5	535
T14	1844	LGT2	1850
T14	879	H10	1015
GIRDER	STANDS		
T12	2192/1890	HTT16 EACH END	3080
T14	1844/879	HTT16 EACH END	3080
0			

HEADER SCHDUAL FOR ALVAREZ					
HEADER #	UPLIFT	STRAP	HOLD DOWN	# OF STAPS	TOTAL
#1	584	LSTA 24	1235	4	4940
#2	625	LSTA 24	1235	2	2470
#3	0	LSTA 24	1235		
#4	1194	LSTA 24	1235	4	4940
#5	357	LSTA 24	1235	2	2470
#6	357	LSTA 24	1235	2	2470
#7	521	LSTA 24	1235	4	4940
#8	1197	LSTA 24	1235	4	4940
#9	796	LSTA 24	1235	4	4940
#10	770	LSTA 24	1235	4	4940
#11	366	LSTA 24	1235	4	4940
#2 PST BASE	625	CB 44	4200	1	4200
#2 POST CAP	625	LSTA 24	1235	2	2470
0					



SQUARE FOOTAGE
HEATED=1868
FRONT PORCH=16
TOTAL=1884

R&M

NOTES

ALL SLEEPING ROOMS ARE TO BE ARC FAULT CIRUIT INTERRUPTER PROTECTED

SMOKE DETECTOR ARE TO BE 110V WITH BATTERY BACKUP

OVERHEAD POWER

CLAY ELECTRIC

DESIGN CRITERIA-IBHS GUILDLINES FOR HURRICANE RESISTANCE RESIDENTIAL CONSTRUCTION

BASIC WIND SPEED 110MPH
WIND IMPORTANCE FACTOR 1
WIND EXPOSURE C
INTERNAL PRESSURE COEFFICIENT 0.18/-0.18
COMPONETS & CLADDING 26.16/31.80

ROBERT CLARK	CELL # 352-538-9697	DRAWN BY: ROBERT CLARK		SCALE=1/4"=1'
27607 N CR 1491 ALACHUA,FL 32615		DATE: 08-25-2009	JOB OWNER & LOCATION	
R&M CONSTRUCTION & DEVELOPMENT LLC			LUIS & MINERVA ALVAREZ	
			162 SW NORMANDY DRIVE FORT WHITE,FL 32038	

BOARD OF COUNTY COMMISSIONERS • COLUMBIA COUNTY

16 April 2010

Minerva Alvarez
162 Southwest Normandy Drive
Ft. White, FL 32038

RE: Special Temporary Use Permit

Dear Mrs. Alvarez:

Please find enclosed an application fort a Special Temporary Use Permit. You would be applying for #7 on the application. There is an affidavit that has to be signed by you, your husband and your son witnessed by a Notary. This affidavit is attached to the back of the application. Since this will be the second dwelling to be located on your property you will need to provide a 911 address for the mobile home as part of the application before the permit can be issued. In addition, the Special Temporary Use Permit will need to be issued before a Certificate of Occupancy can be issued for the house that is currently under construction, building permit # 28265.

Should you have any questions concerning this matter, please do not hesitate to contact me at 386.754.7119.

Sincerely,

Brian L. Kepner
Land Development Regulation Administrator,
County Planner

Enclosure

1129 15.00 paid ck# 1126 on 11-23-09

Columbia County Building Permit Application

For Office Use Only Application # 09-39 Date Received 11-23-09 By LH Permit # 28265

Zoning Official BLK Date 24.11.09 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 WD 12/10/09 Date

Comments Legal Non-conforming Lot of Record, Existing MH to be removed 45 days after CO is issued

☑ 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 N/A Suspended

Septic Permit No. 09-0586 Fax 386-462-2993

Name Authorized Person Signing Permit Robert Clark Phone 352-538-9697

Address 27607 NCR 1491 Alachua Fl 32615

Owners Name Luis and Minerva Alvarez Phone 386-454-4665

911 Address 162 SW Normandy Drive Fort White Fl 32038

Contractors Name Robert Clark Phone 352-538-9697

Address 27607 N CR 1491 Alachua Fl 32615

Fee Simple Owner Name & Address

Bonding Co. Name & Address

Architect/Engineer Name & Address

Mortgage Lenders Name & Address First Federal Bank of Florida

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

Property ID Number R04323-032 Estimated Cost of Construction 104,000.00

Subdivision Name Fairview estates Lot 32 Block Unit Phase

Driving Directions 441 South Approx 20 Miles turn Right on CR 138 go Approx 2 Miles turn Right on Normandy Drive First drive on left

Number of Existing Dwellings on Property 1

Construction of New Home SFD Total Acreage 1.2 Lot Size

Do you need a - Culvert Permit or Culvert Waiver or (Have an Existing Drive) Total Building Height 15

Actual Distance of Structure from Property Lines - Front 155 Side 58 Side 58 Rear 127

Number of Stories 1 Heated Floor Area 1868 Total Floor Area 1884 Roof Pitch 5/12

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

Spoke to Clark on 12-11-09

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.)

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 CBC1256838
Columbia County
Competency Card Number

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 23 **day of** November **20** 09.

Personally known __ **or Produced Identification**

State of Florida Notary Signature (For the Contractor)

SEAL:

LYNN J. WRIGHT
MY COMMISSION # DD 909218
EXPIRES: August 21, 2013
Bonded Thru Notary Public Underwriters

0911-39

Columbia County Building Permit Application

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Luis Alvarez

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SEAL:

LYNN J. WRIGHT
MY COMMISSION # DD 909218
EXPIRES: August 21, 2013
Bonded Thru Notary Public Underwriters

SUBCONTRACTOR VERIFICATION FORM

APPLICATION NUMBER 000028265 CONTRACTOR R+M construction PHONE _____

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 Clark Electric Inc License #: EC 1300 3577 (435)	Signature Phone #: 352-316-2563
MECHANICAL/ A/C ____	Print Name License #:	Signature Phone #:
PLUMBING/ GAS	Print Name Another Sheet License #:	Signature Phone #:
ROOFING	Print Name License #:	Signature Phone #:
SHEET METAL	Print Name License #: NA	Signature Phone #:
FIRE SYSTEM/ SPRINKLER	Print Name License#: NA	Signature Phone #:
SOLAR	Print Name License #: NA	Signature Phone #:

Specialty License	License Number	Sub-Contractors Printed Name	Sub-Contractors Signature
MASON	CBC1256838	Robert Clark (4773)	
CONCRETE FINISHER	"	"	"
FRAMING	"	"	"
INSULATION	"	"	"
STUCCO	N/A	N/A	N/A
DRYWALL	"	"	"
PLASTER	"	"	"
CABINET INSTALLER	"	"	"
PAINTING	"	"	"
ACOUSTICAL CEILING	N/A	N/A	N/A
GLASS	N/A	N/A	N/A
CERAMIC TILE	"	"	"
FLOOR COVERING	"	"	"
ALUM/VINYL SIDING	N/A	N/A	N/A
GARAGE DOOR	NA	N/A	N/A
METAL BLDG ERECTOR	—	N/A	NA

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.

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ELECTRICAL	Print Name Clark Electric Inc. Signature _____ 435 License #: EC 13003577 Phone #: 352-316-2563	
MECHANICAL/ A/C	Print Name R Bounds HVAC Signature _____ License #: CR-C057642 768 Phone #: 352-472-2761	
PLUMBING/ GAS	Print Name _____ Signature _____ License #: Phone #:	
ROOFING	Print Name _____ Signature _____ License #: Phone #:	
SHEET METAL	Print Name NA Signature _____ License #: Phone #:	
FIRE SYSTEM/ SPRINKLER	Print Name NA Signature _____ License#: Phone #:	
SOLAR	Print Name NA Signature _____ License #: Phone #:	

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

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Contractor Forms: Subcontractor form: 6/09

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ELECTRICAL	Print Name Clark Electric INC. Signature [signature] 435 License #: EC 1300 3577 (435) Phone #: 352-316-2563	
MECHANICAL/ A/C _____	Print Name _____ Signature _____ License #: Phone #:	
PLUMBING/ GAS	Print Name Coleman's Plumbing, Inc Signature [signature] License #: CFC1425624 (767) Phone #: (352)472-4114	
ROOFING	Print Name _____ Signature _____ License #: Phone #:	
SHEET METAL	Print Name _____ Signature _____ License #: Phone #:	
FIRE SYSTEM/ SPRINKLER	Print Name _____ Signature _____ License#: Phone #:	
SOLAR	Print Name _____ Signature _____ License #: Phone #:	

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

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MECHANICAL/ A/C _____	Print Name Another Sheet Signature	License #: Phone #:
PLUMBING/ GAS	Print Name Another Sheet Signature	License #: Phone #:
ROOFING	Print Name Mac Johnson Roofing Signature	License #: RC0061384 (187) Phone #: 352-472-4943 (0078)
SHEET METAL	Print Name Signature	License #: Phone #:
FIRE SYSTEM/ SPRINKLER	Print Name Signature	License#: Phone #:
SOLAR	Print Name Signature	License #: Phone #:

Specialty License	License Number	Sub Contractors Printed Name	Sub-Contractors Signature
MASON			
CONCRETE FINISHER			
FRAMING			
INSULATION			
STUCCO			
DRYWALL			
PLASTER			
CABINET INSTALLER			
PAINTING			
ACOUSTICAL CEILING			
GLASS			
CERAMIC TILE			
FLOOR COVERING			
ALUM/VINYL SIDING			
GARAGE DOOR			
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.

Contractor Forms: Subcontractor form: 6/09

Columbia County Property Appraiser

DB Last Updated: 11/13/2009

2009 Tax Year

Parcel: 26-7S-16-04323-032 HX

Tax Record | Property Card | Interactive GIS Map | Print

Search Result: 1 of 1

Owner & Property Info

Owner's Name	ALVAREZ LUIS E & MINERVA		
Site Address	NORMANDY		
Mailing Address	162 SW NORMANDY DRIVE FT WHITE, FL 32038		
Use Desc. (code)	MOBILE HOM (000200)		
Neighborhood	026716.01	**Tax District**	3
UD Codes	MKTA02	**Market Area**	02
Total Land Area	0.000 ACRES		
Description	LOT 32 FAIRVIEW ESTATES S/D. ORB 408-565, 650-100, 878-119,		

GIS Aerial

Property & Assessment Values

Mkt Land Value	cnt: (2)	$19,100.00
Ag Land Value	cnt: (0)	$0.00
Building Value	cnt: (1)	$3,556.00
XFOB Value	cnt: (2)	$1,480.00
Total Appraised Value		$24,136.00

Just Value		$24,136.00
Class Value		$0.00
Assessed Value		$14,027.00
Exemptions	(code: HX)	$14,027.00
Total Taxable Value		County: $0.00 | City: $0.00 Other: $0.00 | School: $0.00

Sales History

Sale Date	Book/Page	Inst. Type	Sale VImp	Sale Qual	Sale RCode	Sale Price
3/30/1999	878/119	WD	V	Q		$10,000.00
4/20/1988	650/100	WD	V	U		$4,300.00

Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
1	MOBILE HME (000800)	1972	Alum Siding (26)	720	720	$3,556.00
	Note: All S.F. calculations are based on exterior building dimensions.					

Extra Features & Out Buildings

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
0294	SHED WOOD/	1999	$1,080.00	0000144.000	12 x 12 x 0	(000.00)
0296	SHED METAL	1999	$400.00	0000080.000	8 x 10 x 0	(000.00)

Land Breakdown

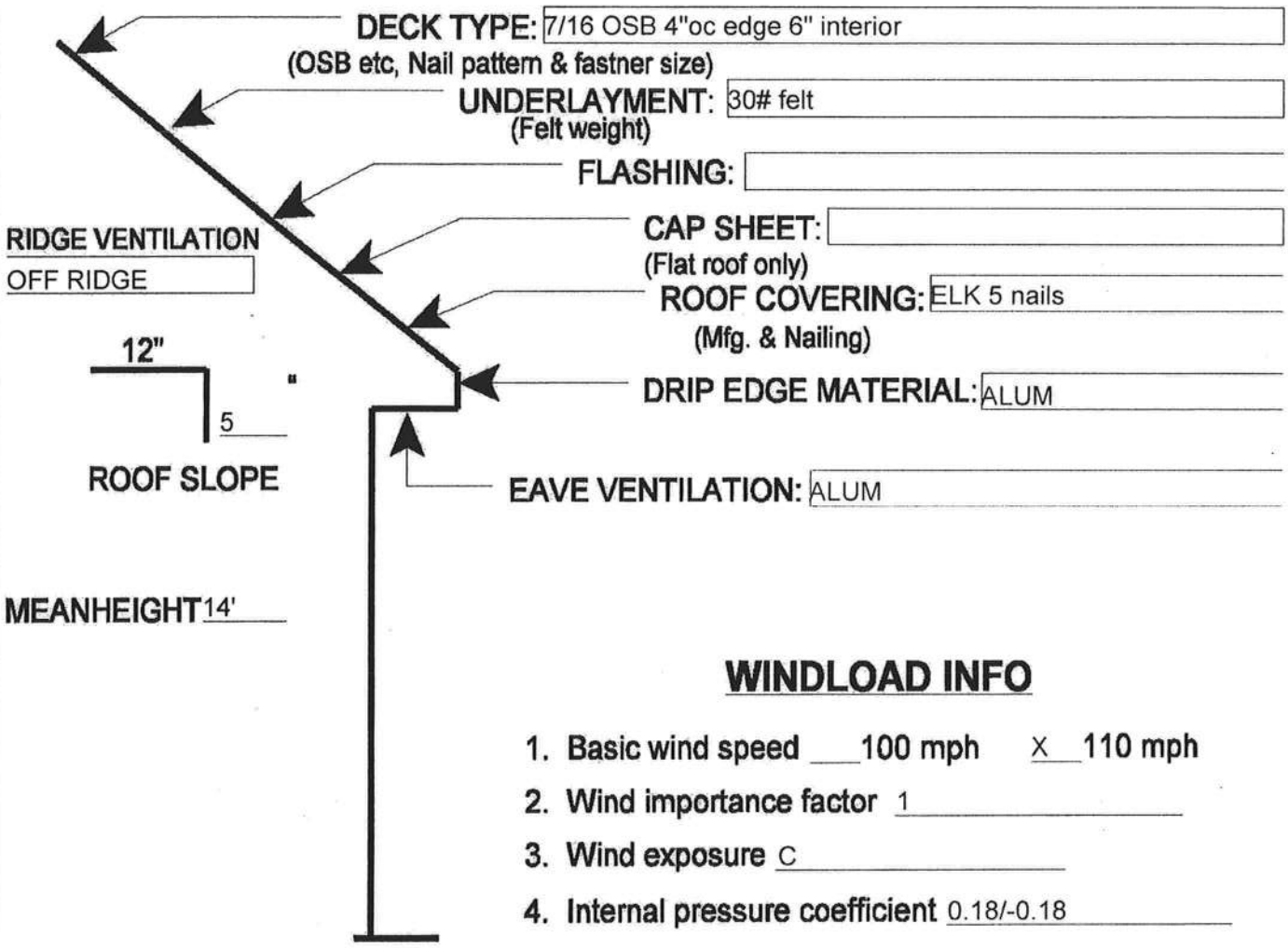
Lnd Code	Desc	Units	Adjustments	Eff Rate	Lnd Value
000200	MBL HM (MKT)	0000001.000 LT - (0000000.000AC)	1.00/1.00/1.00/1.00	$17,100.00	$17,100.00
009945	WELL/SEPT (MKT)	0000001.000 UT - (0000000.000AC)	1.00/1.00/1.00/1.00	$2,000.00	$2,000.00

Columbia County Property Appraiser DB Last Updated: 11/13/2009

1 of 1

ROOFING, WINDOW & DOOR REQUIREMENTS

Roof System Description



DECK TYPE: 7/16 OSB 4"oc edge 6" interior
(OSB etc, Nail pattern & fastner size)

UNDERLAYMENT: 30# felt
(Felt weight)

FLASHING:

CAP SHEET:
(Flat roof only)

ROOF COVERING: ELK 5 nails
(Mfg. & Nailing)

DRIP EDGE MATERIAL: ALUM

EAVE VENTILATION: ALUM

RIDGE VENTILATION
OFF RIDGE

12" / 5
ROOF SLOPE

MEANHEIGHT 14'

WINDLOAD INFO

1. Basic wind speed ___100 mph X 110 mph
2. Wind importance factor 1
3. Wind exposure C
4. Internal pressure coefficient 0.18/-0.18
5. Components & cladding (design pressure) 26.16/31.80

PRODUCT APPROVAL SPECIFCATION SHEET			
CATEGORY	MANUFACTURER	DESCRIPTION	APPROVAL #
EXTERIOR DOOR	THERMA TRU	6/8 OPAQUE & GLAZED STEEL	FL5262.2
WINDOWS	GENERAL ALUM	NAIL FIN WINDOW	FL11654.13
SIDING	JAMES HARDI	7 1/4 LAP PLANK	FL10477
SHINGELS	GAF/ELK	RAISED PROFILE PRESTIQUE	FL10124.1
FELT	WARRIOR ROOFING	30# & 15# FELT	FL2346
HURRICAINE STRAP	SIMPSON	H2.5	FL503.5
		H10	FL474.96
		LSTA	FL1901.34
		CB44	FL474.36
		CB66	FL474.39
		AC6	FL474.25
		AC4	FL474.23
		ACE4	FL474.24
		ACE6	FL474.26
OFF RIDGE VENTS	SOUTHEASTERN METALS	1'X4' OFF RIDGE VENTS	FL2499.1

ALVAREZ JOB !

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.)	1868	Total (Sq. Ft.) under roof 1884	IIIIIIII	IIIIIIII	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.	✓		

COLUMBIA COUNTY BUILDING DEPARTMENT
Received for FILE COPY
Code Compliance
PLANS EXAMINER

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 2000 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: 160 SW Normandy Drive **Project Name:** Alverez C

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	therma tru	6/8 OPaque & glazed Steel	FI 5262.2
2. Sliding			
3. Sectional			
4. Roll up			
5. Automatic			
6. Other			
B. WINDOWS			
1. Single hung	general Alum	Nat'l Fin window	FI 11654.13
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	James Hardi	7¼ Lap plank	FI 10477
2. Soffits			
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	GAF/ELK	Raised profile Prestigue	FI 10124.1
2. Underlayments	warning Roofing	30# 15#	FI 2346
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	Simpson	H-10 H2.5A	FL503.5 474.96
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.

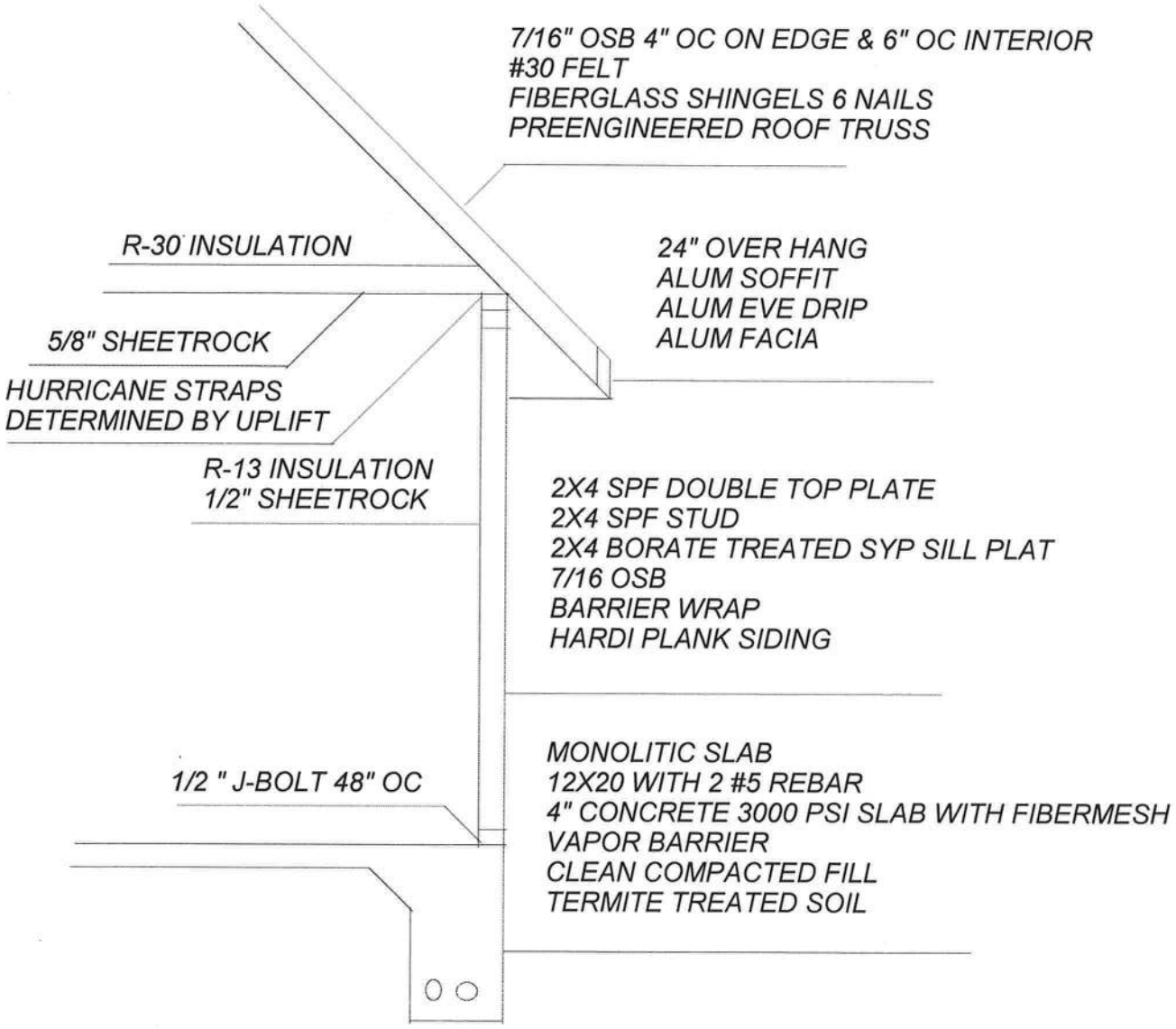
I understand these products may have to be removed if approval cannot be demonstrated during inspecti

Contractor or Contractor's Authorized Agent Signature

Robert Clark
Print Name

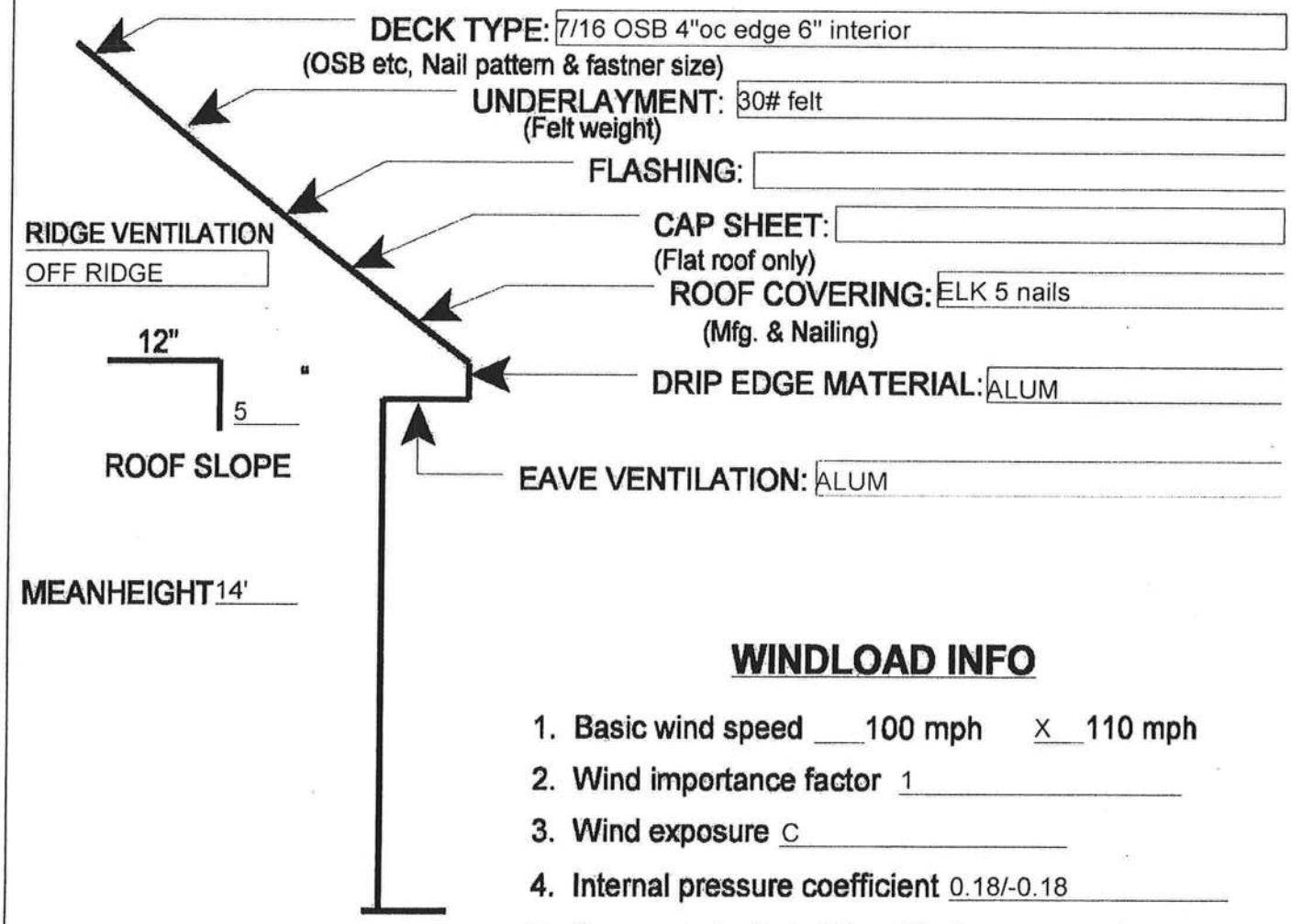
11-10-09
Date

TYPICAL WALL SECTION
MONOLITIC SLAB



ROOFING, WINDOW & DOOR REQUIREMENTS

Roof System Description



DECK TYPE: 7/16 OSB 4"oc edge 6" interior
(OSB etc, Nail pattern & fastner size)

UNDERLAYMENT: 30# felt
(Felt weight)

FLASHING:

CAP SHEET:
(Flat roof only)

ROOF COVERING: ELK 5 nails
(Mfg. & Nailing)

DRIP EDGE MATERIAL: ALUM

EAVE VENTILATION: ALUM

RIDGE VENTILATION
OFF RIDGE

12" / 5
ROOF SLOPE

MEANHEIGHT 14'

WINDLOAD INFO

1. Basic wind speed ___100 mph X 110 mph
2. Wind importance factor 1
3. Wind exposure C
4. Internal pressure coefficient 0.18/-0.18
5. Components & cladding (design pressure) 26.16/31.80

ROOF VENTILATION WORK SHEET		
SQUARE FOOTAGE UNDER ROOF	1884	
DIVIDED BY	300	S.F OF NFA PER S.F OF ROOF
EQUALS NET FREE AREA OF VENT	6.28	S.F. PER ROOF
DIVIDED BY	2	VENT SYSTEMS
OFF-RIDGE VENT SYSTEM NFA	3.14	S.F.
DIVIDED BY EACH OFF-RIDGE VENT	0.73	S.F.
EQUALS OFF-RIDGE VENTS PER SYST	4.3	
SOFFIT VENT SYSTEM NFA	3.14	
MULTIPLIED BY 144 S.I/S.F,	144	
EQUALS	452.16	S.I. NFA
DIVIDED BY	4.646	S.I. NFA PER S.F. OF SOFFIT
EQUALS S.F. SOFFIT PER SYSTEM	97.32	S.F.
DIVIDED BY 1 L.F. OF OVER HANG	2	
EQUALS L.F. OF SOFFIT PER SYSTEM	48.66	
THIS BUILDING HAS	195	L.F. AVAILABLE SOFFIT
STANDARD OFF RIDGE VENT		
SIZE 4'		
LENGTH 46.25"		
AREA NET FREE SQ IN 105"		
HEIGHT 5.5"		
APPROX CUT OUT SIZE 46"X12"		
0		

ROOF VENTILATION WORK SHEET		
SQUARE FOOTAGE UNDER ROOF	1884	
DIVIDED BY	300	S.F OF NFA PER S.F OF ROOF
EQUALS NET FREE AREA OF VENT	6.28	S.F. PER ROOF
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OFF-RIDGE VENT SYSTEM NFA	3.14	S.F.
DIVIDED BY EACH OFF-RIDGE VENT	0.73	S.F.
EQUALS OFF-RIDGE VENTS PER SYST	4.3	
SOFFIT VENT SYSTEM NFA	3.14	
MULTIPLIED BY 144 S.I/S.F,	144	
EQUALS	452.16	S.I. NFA
DIVIDED BY	4.646	S.I. NFA PER S.F. OF SOFFIT
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SIZE 4'		
LENGTH 46.25"		
AREA NET FREE SQ IN 105"		
HEIGHT 5.5"		
APPROX CUT OUT SIZE 46"X12"		
0		

Clark / Alvarez Job

WINDOWS*

ATTACHMENTS

TYPE	MANUFACTURER	SERIES	SIZE	JAMB TYPE / SPACING	HEADER TYPE / SPACING	SILLS TYPE / SPACING	MULLIONS
SINGLE HUNG	GENERAL ALUM	5000/5003	3/0X5/0	#8 12"OC	#8 12"OC	#8 12"OC	
			3/0X3/0	#8 12"OC	#8 12"OC	#8 12"OC	

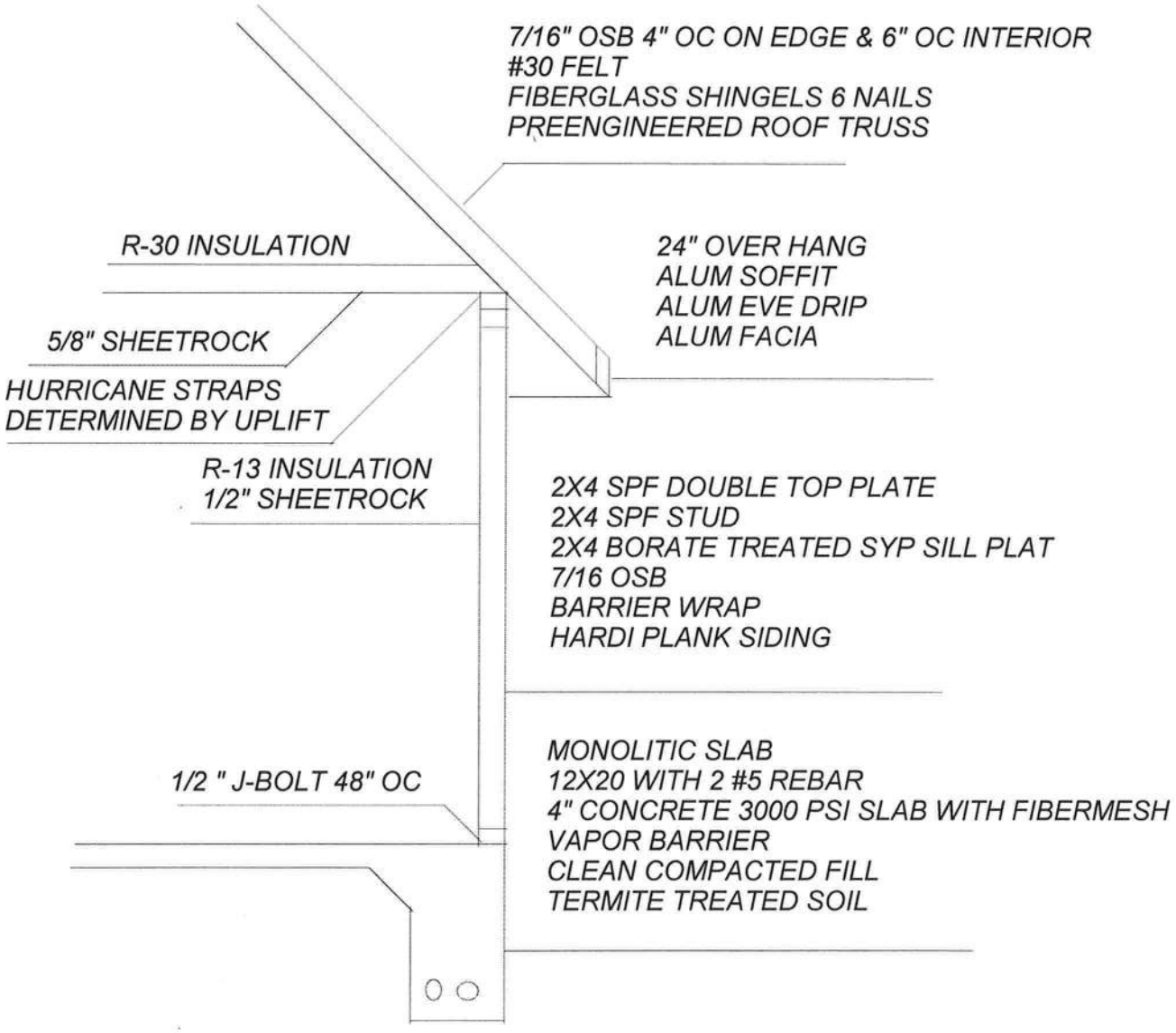
DOORS

ATTACHMENT OF FRAME

TYPE	MANUFACTURER	SERIES	SIZE	JAMB	HEADER	SILL
STEEL	THERMA TRU	CLASSIC CRAFT	3/0X6/8	#10 12"OC	#10 12"OC	1/4" TAPCON 12"OC

***Space around windows shall be a maximum of 3/16" 1/16".**

TYPICAL WALL SECTION
MONOLITIC SLAB



CERTIFICATE OF OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

This Certificate of Occupancy is issued to the below named permit holder for the building and premises at the below named location, and certifies that the work has been completed in accordance with the Columbia County Building Code.

Parcel Number 26-7S-16-04323-032 **Building permit No.** 000028265

Use Classification SFD,UTILITY **Fire:** 0.00

Permit Holder ROBERT CLARK **Waste:**

Owner of Building LUIS & MINERVA ALVARES **Total:** 0.00

Location: 162 SW NORMANDY DR, FT WHITE, FL 32038

Date: 04/28/2010

Harry Dicks

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

UNIVERSAL
ENGINEERING SCIENCES

Consultants In: Geotechnical Engineering • Environmental Sciences • Construction Materials Testing

4475 S.W. 35th Terrace • Gainesville, Florida 32608 • (352) 372-3392

REPORT ON IN-PLACE DENSITY TESTS

CLIENT: R & M CONST 0002282165

PROJECT: 162 S.W. Normandy Drive, Ft. White

AREA TESTED: Fill ↓ prop. bldg. pad

COURSE: F/G DEPTH OF TEST: 0-1'

TYPE OF TEST: ASTM D-2922 DATE TESTED: 12-29-05

NOTE: The below tests ~~DO/DO NOT~~ meet the minimum 95 % compaction requirements of maximum density.

REMARKS: foundation in natural material

LOCATION OF TESTS	DRY DEN.	MAX. DEN.	% MAX. DEN.	% MOIST.	OPT. MOIST.
approx 10' NE of SW corner of prop. bldg pad	108.0	108.5	99.5	6.3	13.5
approx center of prop. bldg pad	107.4		99.0	5.3	
approx 3' NW of SE corner of prop. bldg pad	104.5		96.3	5.8	

4404

TECH. FV

Schafer Engineering, LLC

14705 Main St. Alachua FL 32615

E

Prepared for:

R & M CONSTRUCTION
THE ALVAREZ RESIDENCE
162 SW NORMANDY DRIVE
FORT WHITE, FLORIDA

By:

Schafer Engineering, LLC

386-462-1340 / 352-375-6329

NO COPIES ARE TO BE PERMITTED

SCHAFER ENGINEERING, LLC

7104 NW 42ND LANE \ GAINESVILLE FL. 32606
PHONE: 386-462-1340 \ 352-375-6329

Trusses: Pre-engineered, pre-fabracated with the manufacturers required bracing system installed.

Roof Sheathing: Type: OSB Size: 7/16 Fastener type nails: 8d / .113 Ring Shank

Interior zone spacing: Interior: 6" Periphery: 4

Edge and end zone spacing: Interior: 6" Periphery: 4

Double Top Plate: Type: Spruce Grade: #1 #2 Size: 2 x 4 Nail Spacing: 8 in

Stud Type: Spruce Grade: #1 #2 Size: 2 x 4

Interior stud spacing: 16" End stud spacing: 16"

Shear Wall Siding: Type: OSB Thickness: 7/16

42 ft Trans: Fastener 8d/131 Spacing: Int: 8 Edge: 4

71 ft Trans: Fastener 8d/131 Spacing: Int: 8 Edge: 4

Allowable Unit Shear on Shear Walls: 314 pounds per linear foot

Unit Shear Transferred from Diaphragm: Trans: 155 Long: 57

Wall Tension Transferred by: Siding Nails: 8d/131 @ 4 O.C. Edges

Foundation Anchor Bolts: Concrete Strength: 3000 psi Size: 1/2"

Washer: 2" Embedment: 7" Location of first anchor bolt from corner: 8"

Anchor Bolts @ 48" o.c. Model: A307 Loc. from corner: 8"

Type of Foundation: (1) - #5 rebar continuous required in bond beam.
Floor Slab: 4" Cmu size: 8" x 16" Height: 24" Rein.: #5 at 72" o.c.

Monolithic Footing: Depth: 20" Bottom Width: 12 Rein.: 2 #5 rebars

Stemwall Footing: Width: 20 Depth: 10 Rein.: 2 #5 rebar

Interior Footings 16" Wide X 10" Deep with 2-#5 rebar continuous

Porch Columns: _____ Column Fasteners: _____

Special Comments: _____

Notes:
1. Balloon frame all gable ends unless accompanied by gable end detail
2. All trusses must bear on exterior walls and porch beams.
3. All walls to be nailed with same nailing pattern as the shear walls.
4. This is a wind load ONLY not a structural analysis.
5. This wind load is not valid without a raised, embossed seal.
6. It is assumed that ideal soil conditions and pad preparations are provided.
7. Fiber mesh or WWM may be used in concrete slab.
8. Trusses must be installed and anchored in accordance to the truss engineering.
9. All headers spanning over 12' must be pre-engineered.
10. The foundatioin and walls are minimum design use, and may be increased.
11. Wind load is for one use only \ FBC-2007 \ No copies permitted.

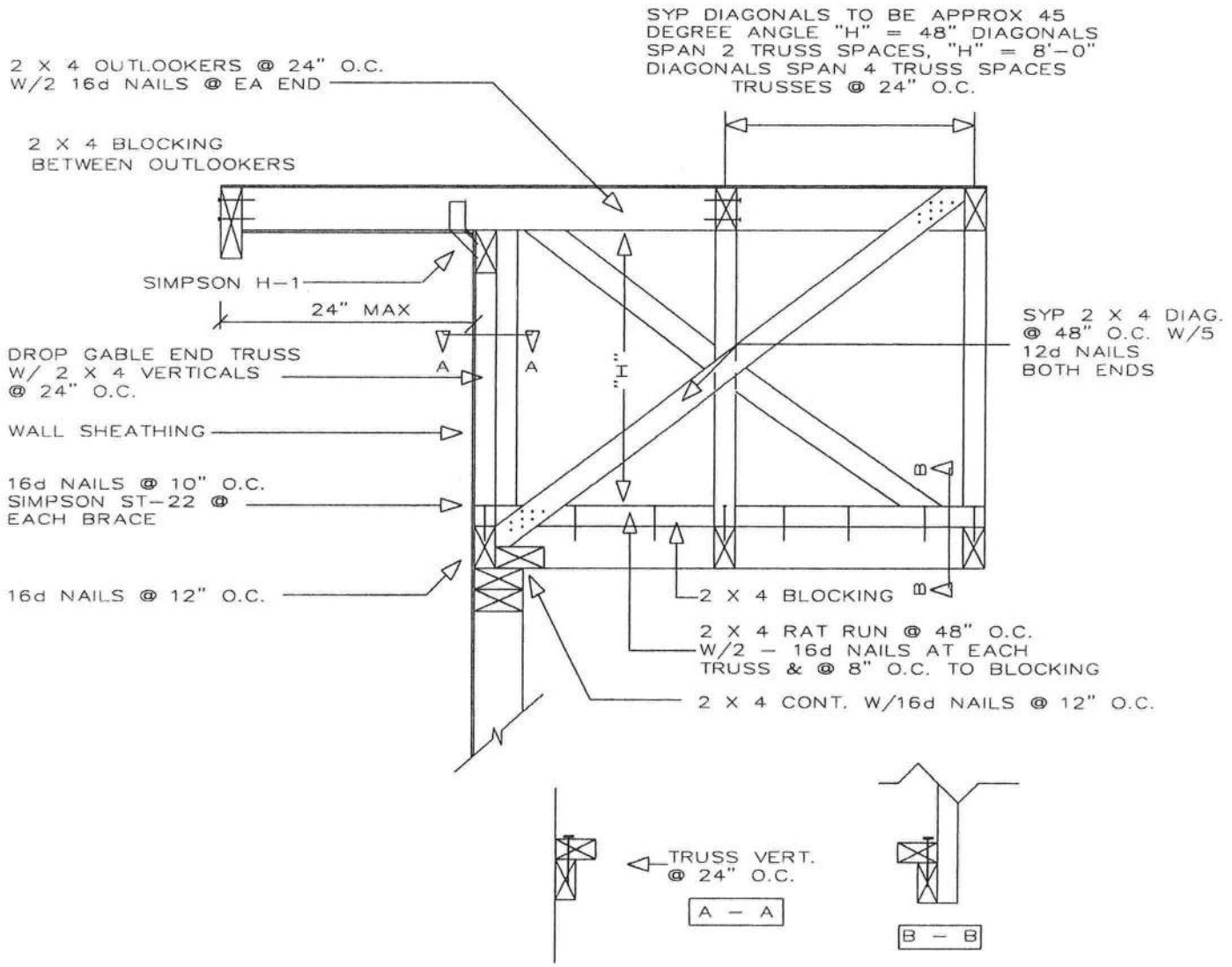
8-31-07

Bruce Schafer, P. E. #48984
7104 NW 42ND LN
GAINESVILLE, FL. 32606

SCHAFER ENGINEERING, LLC

7104 NW 42ND LANE \ GAINESVILLE FL. 32606

PHONE: 386-462-1340 \ 352-375-6329



TYPICAL GABLE END BRACING

8-31-09

DETAIL MAY BE USED WITH INTERIOR CATH. CEILING BY INSTALLING A SYP 2 X 4 LEDGER IN PLANE WITH THE INTERIOR CEILING USING 2 - 16d NAILS ON EACH POINT WHERE THE LEDGER CROSSES THE GABLE END TRUSS VERTICALS

Bruce Schafer, P. E. #48984
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PHONE: 386-462-1340 \ 352-375-6329

HEADER STRAPPING				
Uplift Lbs	Top Connector	Rating Lbs	Bottom Connector	Rating Lbs
to 455	LSTA19	635	H3	320
to 910	LSTA12	795	2-H3	640
to 1265	LSTA18	1110	LTT19	1305
to 1750	2-LSTA12	1810	LTT20	1750
to 2530	2-LSTA18	2530	HD2A-2.5	2165
to 2865	3-LSTA18	3255	HD2A-3.5	2865
to 3700	3-LSTA24	3880	HD5A-3	3130

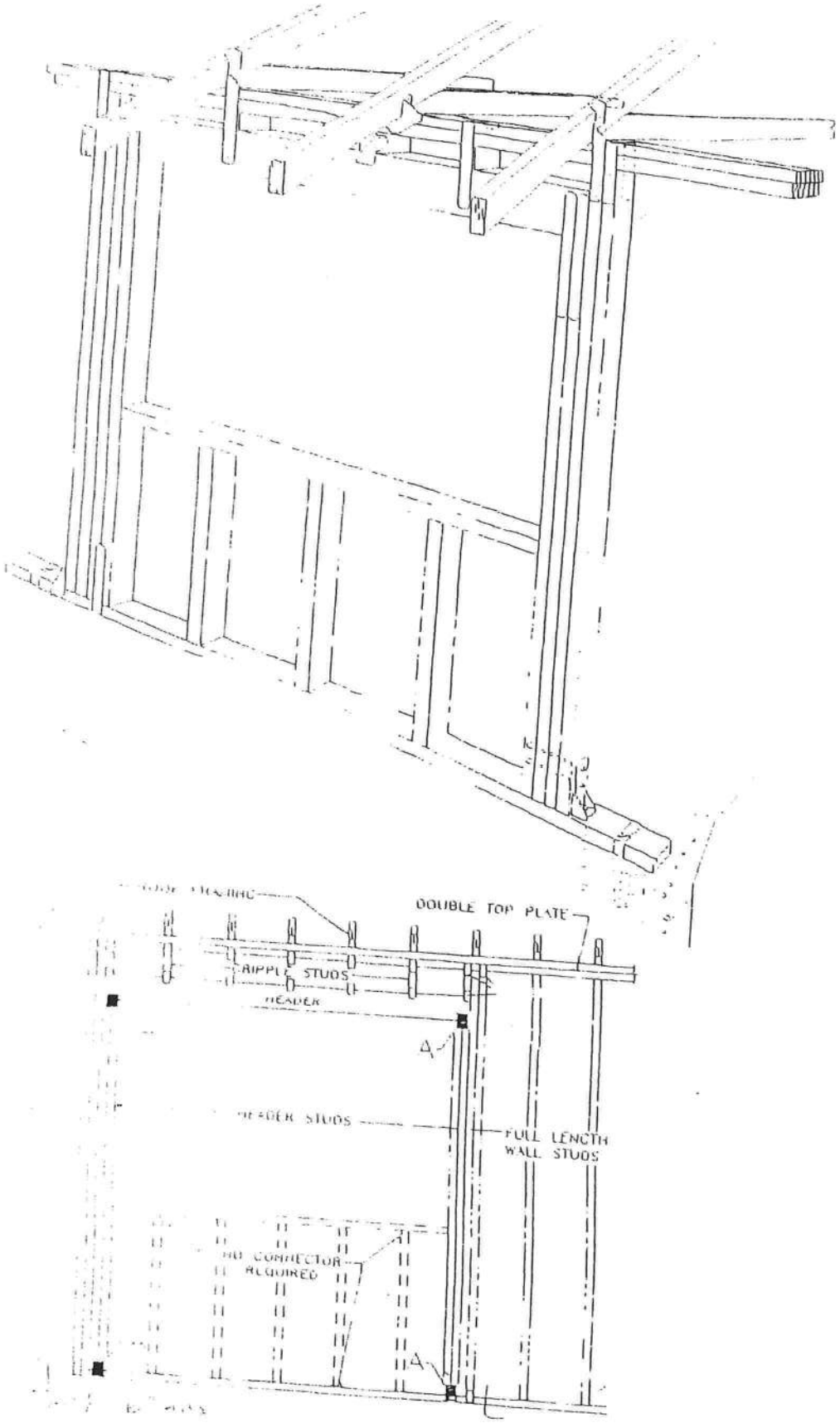
Total the uplift for each truss sitting on the header and divide by 2 to determine the uplift on the header. Use proper bolt anchors sufficient to support required uplift loads.

TRUSSES \ GIRDERS			
Uplift Lbs	Top Connector	Bottom Connector	Rating Lbs
to 535	H2.5A	NA	
to 1015	H10A	NA	
to 1215	TS22	LTT19	1305
to 1750	2-TS22	LTT20	1750
to 2570	2-TS22	HD2A	2775
to 3665	3-TS22	HD5A	4010
to 5420	2-MST37	HTT22	5250
to 9660	2-MST60	HD10A	9540

Two 12d common toenials are required per truss for each bearing point into top plate.
It is the contractors responsibility to provide a continuous load path from truss to foundation.

	TOP CONNECTOR	RATING LBS	BOTTOM CONNECTOR	RATING LBS
BEAM SEATS	LSTA18	1110	LTT19	1305
POSTS	2-LSTA18	2220	ABU44	2300

1. Simpson or equivlent hardware may be used. For nailing into spruce members, multiply table values by .86
2. See truss engineering for anchor uplift values.
3. This schedule is not meant to be a replacement to the specified values of any manufactures values.



Total each truss uplift on the header divide by 2 for header anchorage

ASCE 7-05

User Input Data		
Structure Type	Building	
Basic Wind Speed (V)	110	mph
Structural Category	II	
Exposure	B	
Struc Nat Frequency (n1)	1	Hz
Slope of Roof (Theta)	22.6	Deg
Type of Roof	Hipped	
Eave Height (Eht)	8.00	ft
Ridge Height (RHt)	14.83	ft
Mean Roof Height (Ht)	11.98	ft
Width Perp. to Wind (B)	30.00	ft
Width Parallel to Wind (L)	64.00	ft
Damping Ratio (beta)	0.01	

Red values should be changed only through "Main Menu"

Calculated Parameters		
Type of Structure		
Height/Least Horizontal Dim	0.40	
Flexible Structure	No	

Calculated Parameters		
Importance Factor	1	
Hurricane Prone Region (V>100 mph)		
Table C6-4 Values		
Alpha =	7.000	
zg =	1200.000	
At =	0.143	
Bt =	0.840	
Am =	0.250	
Bm =	0.450	
Cc =	0.300	
l =	320.00	ft
Epsilon =	0.333	
Zmin =	30.00	ft

Gust Factor Category I: Rigid Structures - Simplified Method			
Gust1	For rigid structures (Nat Freq > 1 Hz) use 0.85	0.85	
Gust Factor Category II: Rigid Structures - Complete Analysis			
Zm	Zmin	30.00	ft
Izm	Cc * (33/z)^0.167	0.3048	
Lzm	l*(zm/33)^Epsilon	309.99	ft
Q	(1/(1+0.63*((B+Ht)/Lzm)^0.63))^0.5	0.9211	
Gust2	0.925*((1+1.7*Izm*3.4*Q)/(1+1.7*3.4*Izm))	0.8784	
Gust Factor Category III: Flexible or Dynamically Sensitive Structures			
Vhref	V*(5280/3600)	161.33	ft/s
Vzm	bm*(zm/33)^Am*Vhref	70.89	ft/s
NF1	NatFreq*Lzm/Vzm	4.37	Hz
Rn	(7.47*NF1)/(1+10.302*NF1)^1.667	0.0552	
Nh	4.6*NatFreq*Ht/Vzm	0.78	
Nb	4.6*NatFreq*B/Vzm	1.95	
Nd	15.4*NatFreq*Depth/Vzm	13.90	
Rh	1/Nh-(1/(2*Nh^2)*(1-Exp(-2*Nh)))	0.6338	
Rb	1/Nb-(1/(2*Nb^2)*(1-Exp(-2*Nb)))	0.3844	
Rd	1/Nd-(1/(2*Nd^2)*(1-Exp(-2*Nd)))	0.0693	
RR	((1/Beta)*Rn*Rh*Rb*(0.53+0.47*Rd))^0.5	0.8697	
gg	+(2*LN(3600*n1))^0.5+0.577/(2*LN(3600*n1))^0.5	4.19	
Gust3	0.925*((1+1.7*Izm*(3.4^2*Q^2+GG^2*RR^2)^0.5)/(1+1.7*3.4*Izm))	1.17	

Gust Factor Summary			
Main Wind-force resisting system:		**Components and Cladding:**	
Gust Factor Category:	I	Gust Factor Category:	I
Gust Factor (G)	0.88	Gust Factor (G)	0.88

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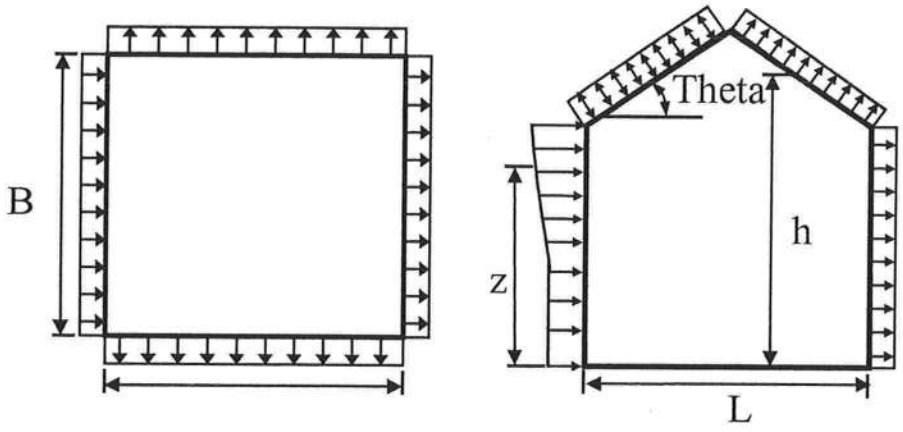
6.5.12.2.1 Design Wind Pressure - Buildings of All Heights (Non-flexible)

Elev.	Kz	Kzt	Kd	qz	Pressure (lb/ft^2)	
					Windward Wall*	
ft			1.00	lb/ft^2	+GCpi	-GCpi
15	0.70	1.00	1.00	21.70	12.05	18.45

Figure 6-3 - External Pressure Coefficients, Cp

Loads on Main Wind-Force Resisting Systems



Variable	Formula	Value	Units
Kh	2.01*(15/zg)^(2/Alpha)	0.57	
Kht	Topographic factor (Fig 6-2)	1.00	
Qh	.00256*(V)^2*ImpFac*Kh*Kht*Kd	17.80	psf

Wall Pressure Coefficients, Cp	
Surface	Cp
Windward Wall (See Figure 6.5.12.2.1 for Pressures)	0.80

Roof Pressure Coefficients, Cp	
Roof Area (sq. ft.)	-
Reduction Factor	1.00

Description	Cp	Pressure (psf)	
		+GCpi	-GCpi
Leeward Walls (Wind Dir Parallel to 30 ft wall)	-0.29	-7.79	-1.38
Leeward Walls (Wind Dir Parallel to 64 ft wall)	-0.50	-11.02	-4.61
Side Walls	-0.70	-14.15	-7.74
Roof - Normal to Ridge (Theta>=10)			
Windward - Max Negative	-0.25	-7.08	-0.67
Windward - Max Positive	0.25	0.74	7.15
Leeward Normal to Ridge	-0.60	-12.59	-6.18
Overhang Top	-0.25	-3.88	-3.88
Overhang Bottom	0.80	0.70	0.70
Roof - Parallel to Ridge (All Theta)			
Dist from Windward Edge: 0 ft to 5.99 ft	-0.90	-17.28	-10.87
Dist from Windward Edge: 5.99 ft to 11.98 ft	-0.90	-17.28	-10.87
Dist from Windward Edge: 11.98 ft to 23.96 ft	-0.50	-11.02	-4.61
Dist from Windward Edge: > 23.96 ft	-0.30	-7.90	-1.49

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* Horizontal distance from windward edge

Figure 6-4 - External Pressure Coefficients, GCpf

Loads on Main Wind-Force Resisting Systems w/ Ht <= 60 ft

Kh =	2.01*(15/zg)^(2/Alpha)	=	0.57
Kht =	Topographic factor (Fig 6-2)	=	1.00
Qh =	0.00256*(V)^2*ImpFac*Kh*Kht*Kd	=	17.80

Case A						
Surface	**GCpf**	**+GCpi**	**-GCpi**	**qh (psf)**	**Min P (psf)**	**Max P (psf)**
1	0.54	0.18	-0.18	21.70	7.76	15.58
2	-0.46	0.18	-0.18	21.70	-13.80	-5.99
3	-0.47	0.18	-0.18	21.70	-14.04	-6.23
4	-0.41	0.18	-0.18	21.70	-12.90	-5.09
5	0.00	0.18	-0.18	21.70	-3.91	3.91
6	0.00	0.18	-0.18	21.70	-3.91	3.91
1E	0.77	0.18	-0.18	21.70	12.83	20.65
2E	-0.72	0.18	-0.18	21.70	-19.57	-11.75
3E	-0.65	0.18	-0.18	21.70	-17.98	-10.16
4E	-0.60	0.18	-0.18	21.70	-16.89	-9.08
5E	0.00	0.18	-0.18	21.70	-3.91	3.91
6E	0.00	0.18	-0.18	21.70	-3.91	3.91

* p = qh * (GCpf - GCpi)

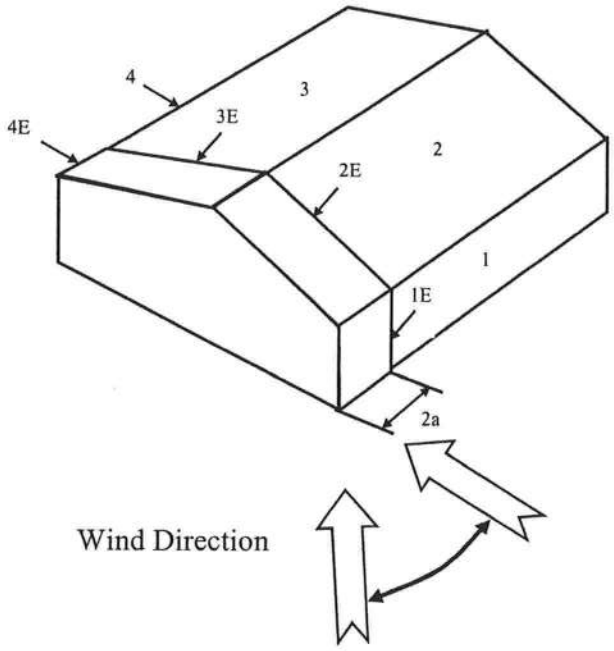

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Figure 6-4 - External Pressure Coefficients, GCpf

Loads on Main Wind-Force Resisting Systems w/ Ht <= 60 ft

Kh =	2.01*(15/zg)^(2/Alpha)	=	0.57
Kht =	Topographic factor (Fig 6-2)	=	1.00
Qh =	0.00256*(V)^2*ImpFac*Kh*Kht*Kd	=	17.80

Case B						
Surface	GCpf	+GCpi	-GCpi	qh (psf)	Min P (psf)	Max P (psf)
1	-0.45	0.18	-0.18	21.70	-13.67	-5.86
2	-0.69	0.18	-0.18	21.70	-18.88	-11.07
3	-0.37	0.18	-0.18	21.70	-11.94	-4.12
4	-0.45	0.18	-0.18	21.70	-13.67	-5.86
5	0.40	0.18	-0.18	21.70	4.77	12.59
6	-0.29	0.18	-0.18	21.70	-10.20	-2.39
1E	-0.48	0.18	-0.18	21.70	-14.32	-6.51
2E	-1.07	0.18	-0.18	21.70	-27.13	-19.31
3E	-0.53	0.18	-0.18	21.70	-15.41	-7.60
4E	-0.48	0.18	-0.18	21.70	-14.32	-6.51
5E	0.61	0.18	-0.18	21.70	9.33	17.14
6E	-0.43	0.18	-0.18	21.70	-13.24	-5.43

* p = qh * (GCpf - GCpi)

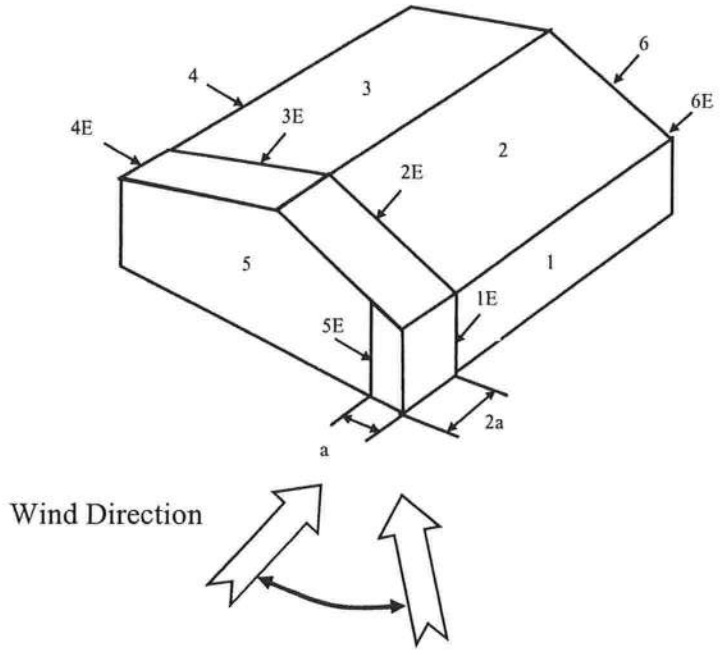

Figure 6-5 - External Pressure Coefficients, GCp

Loads on Components and Cladding for Buildings w/ Ht <= 60 ft

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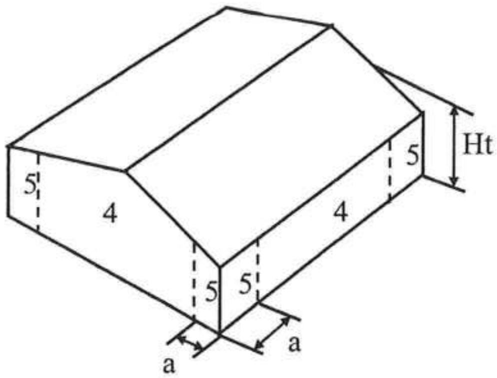

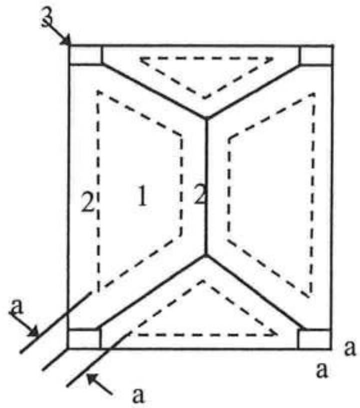

Hipped Roof
10 < Theta <= 30

a = 3 ==> 3.00 ft

Component	Width (ft)	Length (ft)	Area (ft^2)	Zone	GCp Max	GCp Min	Wind Press (lb/ft^2) Max	Wind Press (lb/ft^2) Min
	16	7	112.00	5	0.81	-1.03	17.71	-21.53
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
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	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					

Note: * Enter Zone 1 through 5, or 1H through 3H for overhangs.

Table 6-7 Internal Pressure Coefficients for Buildings, Gcpi

Condition	Gcpi Max +	Gcpi Max -
Open Buildings	0.00	0.00

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Partially Enclosed Buildings	0.55	-0.55
Enclosed Buildings	0.18	-0.18
Enclosed Buildings	**0.18**	**-0.18**

Table 6-8 External Pressure Coefficients for Arched Roofs, Cp

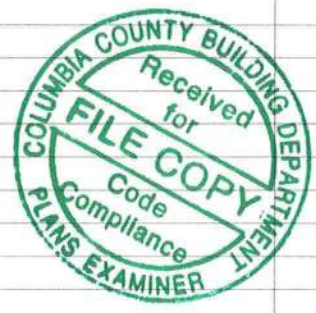
r (Rise-to-Span Ratio) = 0.3

Condition	Variable	Cp		
		Windward Quarter	Center Half	Leeward Quarter
Roof on Elevated Structure	Cp	0.13	-1	-0.5
	P (+GCpi) - psf	-1.25	-18.84	-11.02
	P (-GCpi) -psf	5.16	-12.43	-4.61
Roof Springing from Ground	Cp	0.42	-1	-0.5
	P (+GCpi) - psf	3.36	-18.84	-11.02
	P (-GCpi) -psf	3.36	-18.84	-11.02

Table 6-9 Force Coefficients for Monoslope Roofs over Open Buildings, Cf

Variable	Description	Value	
L	Roof dimension normal to wind direction	64.00	ft
B	Roof dimension parallel to wind direction	30.00	ft
L/B	Ratio of L to B	2.133	
Theta	Slope of Roof	22.6	Deg
Cf	Force Coefficient	0.83	
X	Distance to center of pressure from windward edge	0.33	ft

PRODUCT APPROVAL SPECIFCATION SHEET			
CATEGORY	MANUFACTURER	DESCRIPTION	APPROVAL #
EXTERIOR DOOR	THERMA TRU	6/8 OPAQUE & GLAZED STEEL	FL5262.2
WINDOWS	GENERAL ALUM	NAIL FIN WINDOW	FL11654.13
SIDING	JAMES HARDI	7 1/4 LAP PLANK	FL10477
SHINGELS	GAF/ELK	RAISED PROFILE PRESTIQUE	FL10124.1
FELT	WARRIOR ROOFING	30# & 15# FELT	FL2346
HURRICAINE STRAP	SIMPSON	H2.5	FL503.5
		H10	FL474.96
		LSTA	FL1901.34
		CB44	FL474.36
		CB66	FL474.39
		AC6	FL474.25
		AC4	FL474.23
		ACE4	FL474.24
		ACE6	FL474.26
OFF RIDGE VENTS	SOUTHEASTERN METALS	1'X4' OFF RIDGE VENTS	FL2499.1



CLARK - ALVAREZ - JOE

Bounds HEATING & AIR

P.O.Box 1617

25645 W. Newberry Rd., Newberry, Fl. 32669 Phone: 352-472-2761 Fax: 352-472-1809 Email: mrobertbounds@aol.com Web: wwww.boundshvac.com

Load Short Form
Entire House

Job: Alvarez
Date:
By: Robert Bounds

Project Information

For: R & M, Alverez

Design Information

	Htg	Clg		Infiltration
Outside db (°F)	33	92	Method	Simplified
Inside db (°F)	68	75	Construction quality	Tight
Design TD (°F)	35	17	Fireplaces	0
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	10	***50***		

HEATING EQUIPMENT

Make Carrier
Trade BASE 13 PURON HP
Model 25HBB342A30
ARI ref no. 3025757

Efficiency	8.1 HSPF	
Heating input		
Heating output	42000	Btuh @ 47°F
Temperature rise	28	°F
Actual air flow	1350	cfm
Air flow factor	0.052	cfm/Btuh
Static pressure	0	in H2O
Space thermostat		

COOLING EQUIPMENT

Make Carrier
Trade BASE 13 PURON HP
Cond 25HBB342A30
Coil FY4ANF042
ARI ref no. 3025757

Efficiency	13 EER	
Sensible cooling	28350	Btuh
Latent cooling	12150	Btuh
Total cooling	40500	Btuh
Actual air flow	1350	cfm
Air flow factor	0.048	cfm/Btuh
Static pressure	0	in H2O
Load sensible heat ratio	0.80	

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Bed 1	120	2804	2222	146	106
Closet 1	28	455	159	24	8
Bed 2	144	3047	2144	159	103
Bath 1	60	711	277	37	13
Office	120	2129	4644	111	222
Bed 3	156	2038	1924	106	92
Kitchen	100	1327	2466	69	118
Laund	90	1729	3331	90	159
Living	432	4162	5502	217	263
Master Suite	240	4374	3494	228	167
Bath Master	100	1539	1589	80	76
Closet master	50	1621	477	84	23

Bold/italic values have been manually overridden

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Entire House Other equip loads Equip. @ 0.97 RSM Latent cooling	d	1640	25934 4009	28230 1947 29272 7558	1350	1350
TOTALS		1640	29943	36830	1350	1350

Bold/italic values have been manually overridden

Printout certified by ACCA to meet all requirements of Manual J 8th Ed.

Bounds HEATING & AIR

P.O.Box 1617

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Project Summary
Entire House

Job: Alvarez
Date:
By: Robert Bounds

Project Information

For: R & M, Alverez

Notes:

Design Information

Weather: Gainesville, FL, US

Winter Design Conditions

Outside db	33 °F
Inside db	68 °F
Design TD	35 °F

Summer Design Conditions

Outside db	92 °F
Inside db	75 °F
Design TD	17 °F
Daily range	M
Relative humidity	50 %
Moisture difference	***50*** gr/lb

Heating Summary

Structure	18469 Btuh
Ducts	7465 Btuh
Central vent (105 cfm)	4009 Btuh
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	29943 Btuh

Sensible Cooling Equipment Load Sizing

Structure	19229 Btuh
Ducts	9001 Btuh
Central vent (105 cfm)	1947 Btuh
Blower	0 Btuh
Use manufacturer's data	n
Rate/swing multiplier	0.97
Equipment sensible load	29272 Btuh

Infiltration

Method	Simplified
Construction quality	Tight
Fireplaces	0

	Heating	Cooling
Area (ft²)	1640	1640
Volume (ft³)	13120	13120
Air changes/hour	0.14	0.07
Equiv. AVF (cfm)	31	15

Latent Cooling Equipment Load Sizing

Structure	1721 Btuh
Ducts	2276 Btuh
Central vent (105 cfm)	3561 Btuh
Equipment latent load	7558 Btuh
Equipment total load	36830 Btuh
Req. total capacity at 0.70 SHR	3.5 ton

Heating Equipment Summary

Make	Carrier
Trade	BASE 13 PURON HP
Model	25HBB342A30
ARI ref no.	3025757

Efficiency	8.1 HSPF
Heating input	
Heating output	42000 Btuh @ 47°F
Temperature rise	28 °F
Actual air flow	1350 cfm
Air flow factor	0.052 cfm/Btuh
Static pressure	0 in H2O
Space thermostat	

Cooling Equipment Summary

Make	Carrier
Trade	BASE 13 PURON HP
Cond	25HBB342A30
Coil	FY4ANF042
ARI ref no.	3025757

Efficiency	13 EER
Sensible cooling	28350 Btuh
Latent cooling	12150 Btuh
Total cooling	40500 Btuh
Actual air flow	1350 cfm
Air flow factor	0.048 cfm/Btuh
Static pressure	0 in H2O
Load sensible heat ratio	0.80

Bold/italic values have been manually overridden

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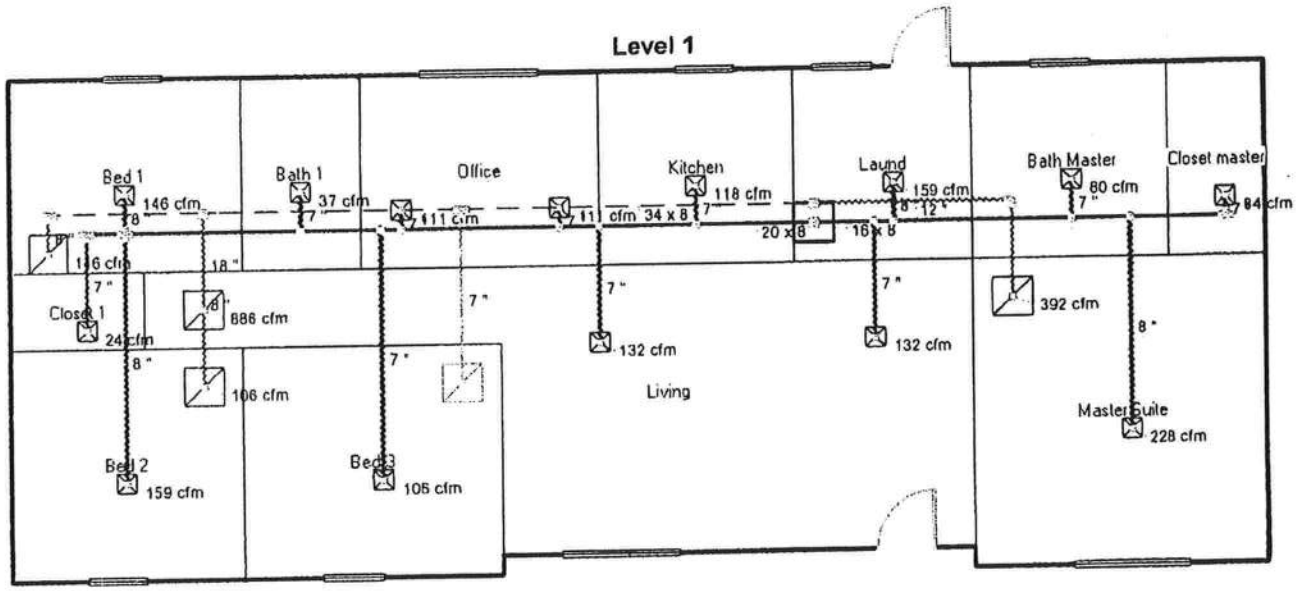


Job #: Alvarez **Performed by Robert Bounds for:** R & M	**P.O.Box 1617** 25645 W. Newberry Rd. Newberry, Fl. 32669 Phone: 352-472-2761 Fax: 352-472-1809 wwww.boundshvac.com mrobertbounds@aol.com	Scale: 1 : 114 Page 1 Right-Suite® Universal 7.1.05 RSU01870 2009-Sep-01 09:07:36 C:\Documents and Settings\Bryan B...

Bounds HEATING & AIR

P.O.Box 1617

25645 W. Newberry Rd., Newberry, Fl. 32669 Phone: 352-472-2761 Fax: 352-472-1809 Email: mrobertbounds@aol.com Web: wwww.boundshvac.com

Duct System Summary
Entire House

Job: Alvarez
Date:
By: Robert Bounds

Project Information

For: R & M, Alverez

	Heating	Cooling
External static pressure	0 in H2O	***0*** in H2O
Pressure losses	0 in H2O	0 in H2O
Available static pressure	0 in H2O	0 in H2O
Supply / return available pressure	0.00 / 0.00 in H2O	0.00 / 0.00 in H2O
Lowest friction rate	***0.100*** in/100ft	***0.100*** in/100ft
Actual air flow	1350 cfm	1350 cfm
Total effective length (TEL)	431 ft	

Supply Branch Detail Table

Name	Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	H x W (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
Bath 1	h 711	37	13	0.100	7.0	0x0	VlFx	28.0	180.0	st2
Bath Master	h 1539	80	76	0.100	7.0	0x0	VlFx	15.0	180.0	st1
Bed 1	h 2804	146	106	0.100	8.0	0x0	VlFx	37.0	170.0	st2
Bed 2	h 3047	159	103	0.100	8.0	0x0	VlFx	48.0	170.0	st2
Bed 3	h 2038	106	92	0.100	7.0	0x0	VlFx	35.0	190.0	st2
Closet 1	h 455	24	8	0.100	7.0	0x0	VlFx	42.0	175.0	st2
Closet master	h 1621	84	23	0.100	7.0	0x0	VlFx	22.0	100.0	st1
Kitchen	c 2466	69	118	0.100	7.0	0x0	VlFx	8.0	205.0	st2
Laund	c 3331	90	159	0.100	8.0	0x0	VlFx	6.0	190.0	st1
Living	c 2751	108	132	0.100	7.0	0x0	VlFx	9.0	195.0	st1
Living-A	c 2751	108	132	0.100	7.0	0x0	VlFx	17.0	205.0	st2
Master Suite	h 4374	228	167	0.100	8.0	0x0	VlFx	27.0	170.0	st1
Office	c 2322	55	111	0.100	7.0	0x0	VlFx	22.0	195.0	st2
Office-A	c 2322	55	111	0.100	7.0	0x0	VlFx	14.0	205.0	st2

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st1	Peak AVF	590	557	0.100	664	11.9	8 x 16	RectFbg	
st2	Peak AVF	760	793	0.100	714	13.3	8 x 20	RectFbg	

Bold/italic values have been manually overridden

Return Branch Detail Table

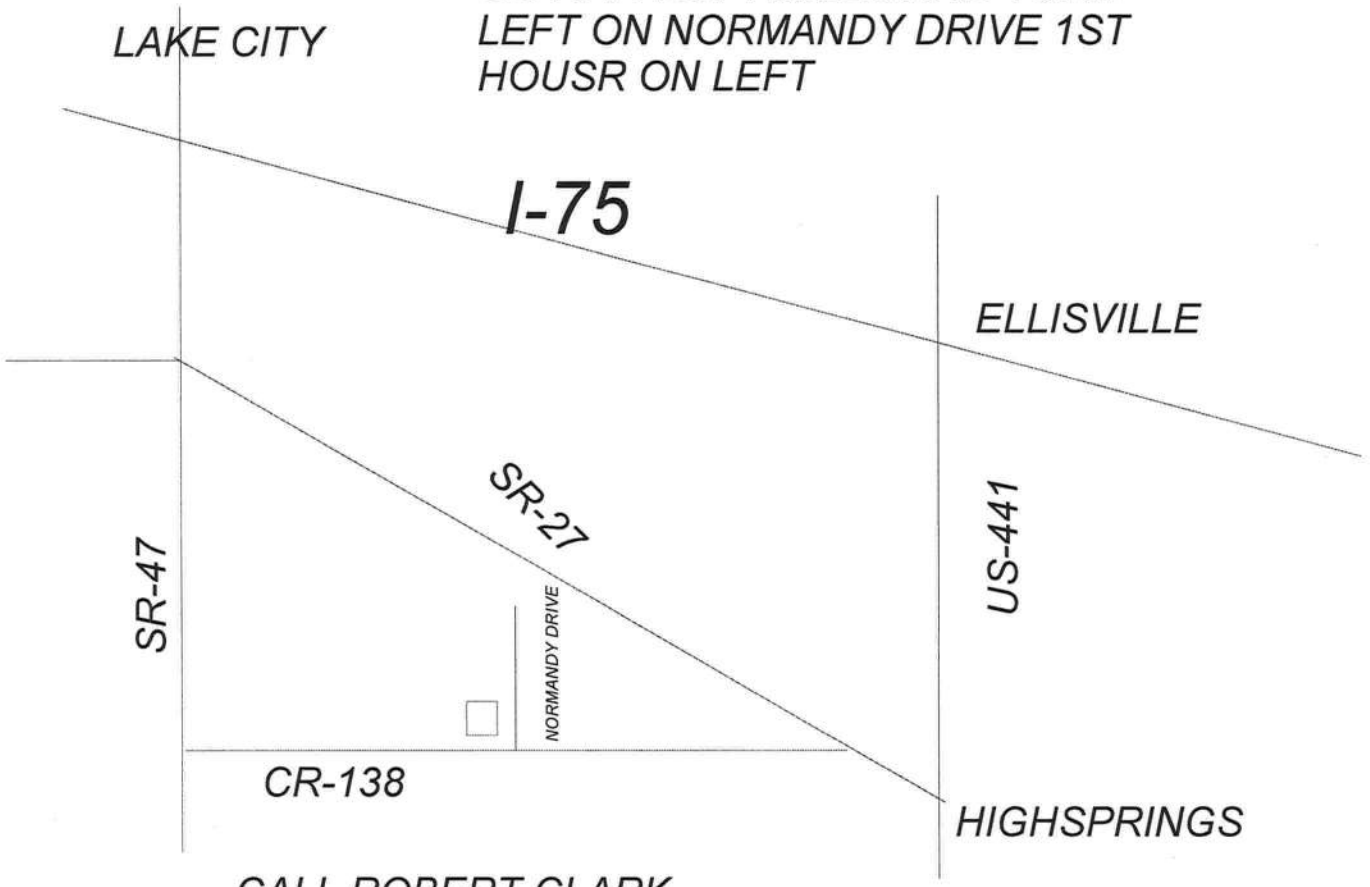
Name	Grill Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb1	0x0	706	886	196.0	0.050	501	18.0	0x 0		VlFx	rt2
rb2	0x0	106	92	200.0	0.050	304	8.0	0x 0		VlFx	rt2
rb4	0x0	392	266	82.0	0.050	499	12.0	0x 0		VlFx	
rb5	0x0	146	106	206.0	0.050	418	8.0	0x 0		VlFx	rt2

Return Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
rt2	Peak AVF	958	1084	0.050	574	17.2	8 x 34	RectFbg	

ALVAREZ RESIDENCE
160 SW NORMANDY DRIVE

FROM LAKECITY GO SOUTH ON
SR-47 TO CR-138 AND TURN LEFT
GO APPROX 4 MILES AND TURN
LEFT ON NORMANDY DRIVE 1ST
HOUSR ON LEFT



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IF YOU HAVE ANY
QUESTIONS 352-538-9697

FORM 1100A-08

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs Residential Performance Method A

Project Name:	R & M Alvarez	Builder Name:	R & M
Street:		Permit Office:	Columbia
City, State, Zip:	Ft. White , FL ,	Permit Number:	28265
Owner:	Alvarez	Jurisdiction:	221000
Design Location:	FL, Gainesville		

1. New construction or existing		New (From Plans)		
2. Single family or multiple family		Single-family		
3. Number of units, if multiple family		1		
4. Number of Bedrooms		4		
5. Is this a worst case?		No		
6. Conditioned floor area (ft²)		1868		
7. Windows	Description		Area	
a. U-Factor: SHGC:	Dbl, U=0.64 SHGC=0.60		166.00	ft²
b. U-Factor: SHGC:	N/A			ft²
c. U-Factor: SHGC:	N/A			ft²
d. U-Factor: SHGC:	N/A			ft²
e. U-Factor: SHGC:	N/A			ft²
8. Floor Types		Insulation	Area	
a. Slab-On-Grade Edge Insulation		R=0.0	1868.00	ft²
b. N/A		R=		ft²
c. N/A		R=		ft²

9. Wall Types	Insulation	Area
a. Frame - Wood, Exterior	R=13.0	1536.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²
d. N/A	R=	ft²
10. Ceiling Types	Insulation	Area
a. Under Attic (Vented)	R=30.0	1868.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

11. Ducts
a. Sup: Attic Ret: Attic AH: Interior Sup. R= 6, 373.6 ft²

12. Cooling systems
a. Central Unit — Cap: 40.5 kBtu/hr SEER: 13

13. Heating systems
a. Electric Heat Pump — Cap: 42 kBtu/hr HSPF: 8.1

14. Hot water systems
a. Electric — Cap: 40 gallons EF: 0.92

b. Conservation features
None

15. Credits — None

COLUMBIA COUNTY BUILDING Received for FILE COPY Code Compliance PLANS EXAMINER DATE

Glass/Floor Area: 0.089

Total As-Built Modified Loads: 33.76
Total Baseline Loads: 41.20

PASS

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

PREPARED BY: Tight Seal Insulation
DATE: 11-10-09

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

OWNER/AGENT:
DATE: 11-10-09

Review of the 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 with Section 553.908 Florida Statutes.

BUILDING OFFICIAL:
DATE:

PROJECT

Title:	R & M Alvarez	Bedrooms:	4	Adress Type:	Street Address
Building Type:	FLAsBuilt	Bathrooms:	0	Lot #	
Owner:	Alvarez	Conditioned Area:	1868	SubDivision:	
# of Units:	1	Total Stories:	1	PlatBook:	
Builder Name:	R & M	Worst Case:	No	Street:	
Permit Office:		Rotate Angle:	0	County:	Columbia
Jurisdiction:		Cross Ventilation:		City, State, Zip:	Ft. White ,
Family Type:	Single-family	Whole House Fan:			FL ,
New/Existing:	New (From Plans)				
Comment:					

CLIMATE

√	Design Location	TMY Site	IECC Zone	Design Temp 97.5 %	Design Temp 2.5 %	Int Design Temp Winter	Int Design Temp Summer	Heating Degree Days	Design Moisture	Daily Temp Range
_____	FL, Gainesville	FL_GAINESVILLE_REGI	2	32	92	75	70	1305.5	51	Medium

FLOORS

√	#	Floor Type	Perimeter	R-Value	Area	Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulatio	192 ft	0	1868 ft²	0.23	0	0.77

ROOF

√	#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	Tested	Deck Insul.	Pitch
_____	1	Hip	Composition shingles	2023 ft²	0 ft²	Medium	0.96	No	0	22.6 deg

ATTIC

√	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Vented	300	1868 ft²	N	N

CEILING

√	#	Ceiling Type	R-Value	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	30	1868 ft²	0.11	Wood

WALLS

√	#	Ornt	Adjacent To	Wall Type	Cavity R-Value	Area	Sheathing R-Value	Framing Fraction	Solar Absor.
_____	1	S	Exterior	Frame - Wood	13	512 ft²		0.23	0.75
_____	2	N	Exterior	Frame - Wood	13	512 ft²		0.23	0.75
_____	3	N	Exterior	Frame - Wood	13	256 ft²		0.23	0.75
_____	4	W	Exterior	Frame - Wood	13	256 ft²		0.23	0.75

DOORS

√	#	Ornt	Door Type	Storms	U-Value	Area
_____	1	S	Insulated	None	0.46	20 ft²
_____	2	N	Insulated	None	0.46	6.67 ft²
_____	3	N	Insulated	None	0.46	6.67 ft²
_____	4	N	Insulated	None	0.46	6.67 ft²

WINDOWS

Window orientation below is as entered. Actual orientation is modified by rotate angle shown in "Project" section above.

√	#	Ornt	Frame	Panes	NFRC	U-Factor	SHGC	Storms	Area	Overhang Depth	Overhang Separation	Int Shade	Screening
_____	1	S	Metal	Double (Clear)	Yes	0.64	0.6	N	30 ft²	2 ft 0 in	5 ft 0 in	HERS 2006	None
_____	2	S	Metal	Double (Clear)	Yes	0.64	0.6	N	30 ft²	2 ft 0 in	1 ft 0 in	HERS 2006	None
_____	3	S	Metal	Double (Clear)	Yes	0.64	0.6	N	15 ft²	2 ft 0 in	6 ft 0 in	HERS 2006	None
_____	4	S	Metal	Double (Clear)	Yes	0.64	0.6	N	15 ft²	2 ft 0 in	5 ft 0 in	HERS 2006	None
_____	5	N	Metal	Double (Clear)	Yes	0.64	0.6	N	40 ft²	2 ft 0 in	1 ft 0 in	HERS 2006	None
_____	6	N	Metal	Double (Clear)	Yes	0.64	0.6	N	15 ft²	2 ft 0 in	1 ft 0 in	HERS 2006	None
_____	7	N	Metal	Double (Clear)	Yes	0.64	0.6	N	12 ft²	2 ft 0 in	1 ft 0 in	HERS 2006	None
_____	8	N	Metal	Double (Clear)	Yes	0.64	0.6	N	9 ft²	2 ft 0 in	1 ft 0 in	HERS 2006	None

INFILTRATION & VENTING

√	Method	SLA	CFM 50	ACH 50	ELA	EqLA	---- Forced Ventilation ---- Supply CFM	Exhaust CFM	Run Time Fraction	Fan Watts
_____	Default	0.00036	1764	7.08	96.8	182.1	0 cfm	0 cfm	0	0

COOLING SYSTEM

√	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Ductless
_____	1	Central Unit	None	SEER: 13	40.5 kBtu/hr	1200 cfm	0.75	False

HEATING SYSTEM

√	#	System Type	Subtype	Efficiency	Capacity	Ductless
_____	1	Electric Heat Pump	None	HSPF: 8.1	42 kBtu/hr	False

HOT WATER SYSTEM

√	#	System Type	EF	Cap	Use	SetPnt	Conservation
_____	1	Electric	0.92	40 gal	70 gal	120 deg	None

SOLAR HOT WATER SYSTEM

√	FSEC Cert #	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF
_____	None	None			ft²		

DUCTS

√	#	---- Supply ---- Location	R-Value	Area	---- Return ---- Location	Area	Leakage Type	Air Handler	CFM 25	Percent Leakage	QN	RLF
_____	1	Attic	6	373.6 ft	Attic	93.4 ft²	Default Leakage	Interior				

TEMPERATURES

Programable Thermostat: None

Ceiling Fans:

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Cooling	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]
Heating	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]
Venting	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]

Thermostat Schedule: HERS 2006 Reference

Schedule Type		Hours 1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	AM	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	68	68	68	68	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68
Heating (WEH)	AM	68	68	68	68	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68

FORM 1100A-08

Code Compliance Cheklist

Residential Whole Building Performance Method A - Details

ADDRESS:	PERMIT #:
Ft. White, FL,	

INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	N1106.AB.1.1	Maximum: .3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	
Exterior & Adjacent Walls	N1106.AB.1.2.1	Caulk, gasket, weatherstrip or seal between: windows/doors & frames, surrounding wall; foundation & wall sole or sill plate; joints between exterior wall panels at corners; utility penetrations; between wall panels & top/bottom plates; between walls and floor. EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate.	
Floors	N1106.AB.1.2.2	Penetrations/openings > 1/8" sealed unless backed by truss or joint members. EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.	
Ceilings	N1106.AB.1.2.3	Between walls & ceilings; penetrations of ceiling plane to top floor; around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate; attic access. EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams.	
Recessed Lighting Fixtures	N1106.AB.1.2.4	Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation; or Type IC with < 2.0 cfm from conditioned space, tested.	
Multi-story Houses	N1106.AB.1.2.5	Air barrier on perimeter of floor cavity between floors.	
Additional Infiltration reqts	N1106.AB.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	

OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	N1112.AB.3	Comply with efficiency requirements in Table N112.ABC.3. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	N1112.AB.2.3	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%. Heat pump pool heaters shall have a minimum COP of 4.0.	
Shower heads	N1112.AB.2.4	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	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 unconditioned attics: R-6 min. insulation.	
HVAC Controls	N1107.AB.2	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	N1104.AB.1 N1102.B.1.1	Ceilings-Min. R-19. Common walls-frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 82

The lower the EnergyPerformance Index, the more efficient the home.

1. New construction or existing		New (From Plans)
2. Single family or multiple family		Single-family
3. Number of units, if multiple family		1
4. Number of Bedrooms		4
5. Is this a worst case?		No
6. Conditioned floor area (ft²)		1868
7. Windows**	Description	Area
a. U-Factor: SHGC:	Dbl, U=0.64 SHGC=0.60	166.00 ft²
b. U-Factor: SHGC:	N/A	ft²
c. U-Factor: SHGC:	N/A	ft²
d. U-Factor: SHGC:	N/A	ft²
e. U-Factor: SHGC:	N/A	ft²

8. Floor Types	Insulation	Area
a. Slab-On-Grade Edge Insulation	R=0.0	1868.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

9. Wall Types	Insulation	Area
a. Frame - Wood, Exterior	R=13.0	1536.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²
d. N/A	R=	ft²

10. Ceiling Types	Insulation	Area
a. Under Attic (Vented)	R=30.0	1868.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

11. Ducts
a. Sup: Attic Ret: Attic AH: Interior Sup. R= 6, 373.6 ft²

12. Cooling systems
a. Central Unit — Cap: 40.5 kBtu/hr SEER: 13

13. Heating systems
a. Electric Heat Pump — Cap: 42 kBtu/hr HSPF: 8.1

14. Hot water systems
a. Electric — Cap: 40 gallons EF: 0.92

b. Conservation features
None

15. Credits — None

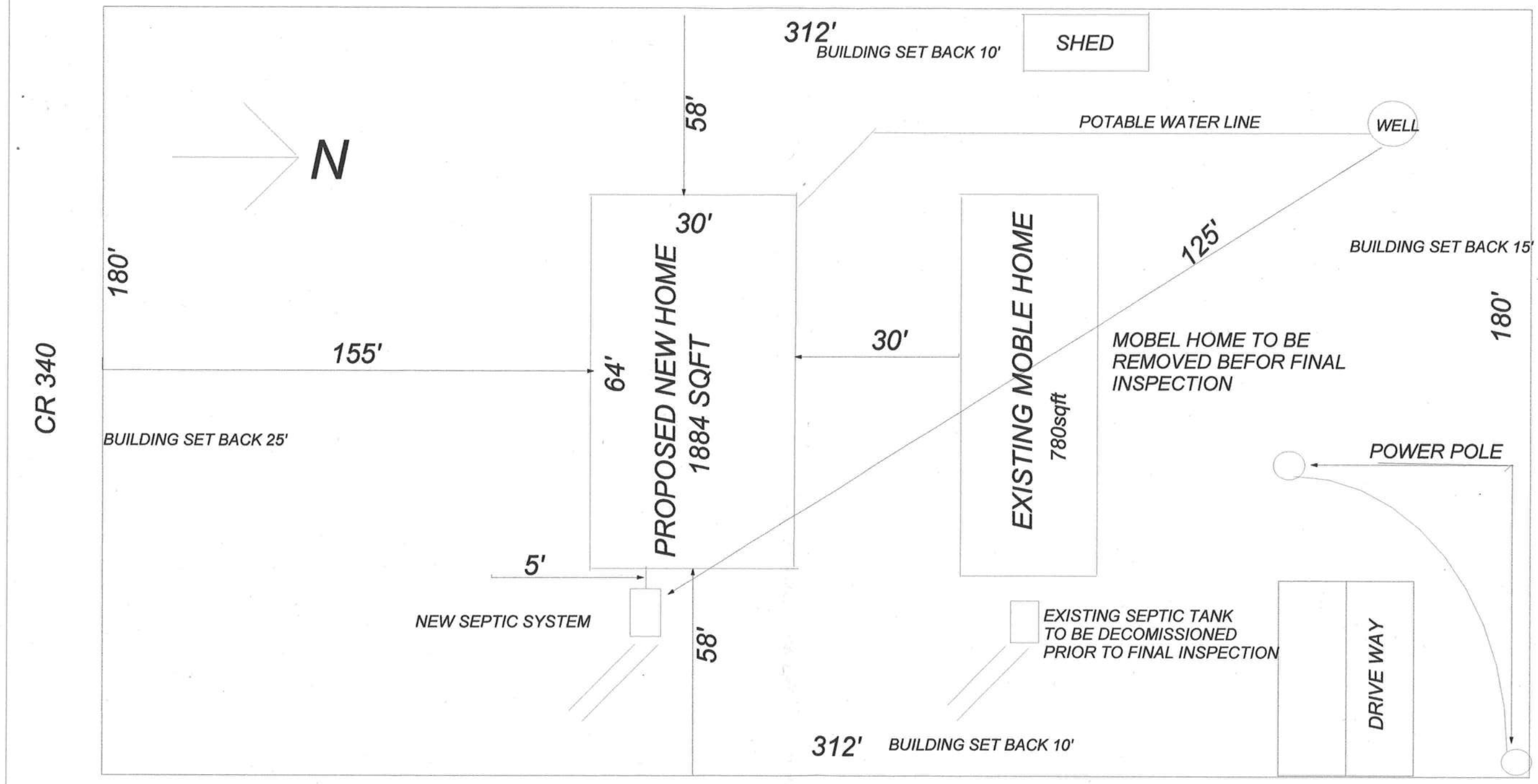
I certify that this home has complied with the Florida Energy Efficiency Code for Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: _____ Date: 11-10-09

Address of New Home: 162 SW Normandy Drive City/FL Zip: Fortwhite FL 32038

*Note: The home's estimated Energy Performance Index is only available through the EnergyGauge USA - FlaRes2008 computer program. This is not a Building Energy Rating. If your Index is below 100, your home may qualify for incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at (321) 638-1492 or see the Energy Gauge web site at energygauge.com for information and a list of certified Raters. For information about Florida's Energy Efficiency Code for Building Construction, contact the Department of Community Affairs at (850) 487-1824.

**Label required by Section 13-104.4.5 of the Florida Building Code, Building, or Section B2.1.1 of Appendix G of the Florida Building Code, Residential, if not DEFAULT.



NORMANDY DRIVE

SQUARE FOOTAGE
HEATED=1868
FRONT PORCH=16
TOTAL=1884

R&M

NOTES

ALL SLEEPING ROOMS ARE TO BE ARC FAULT CIRUIT INTERRUPTER PROTECTED

SMOKE DETECTOR ARE TO BE 110V WITH BATTERY BACKUP

OVERHEAD POWER
CLAY ELECTRIC

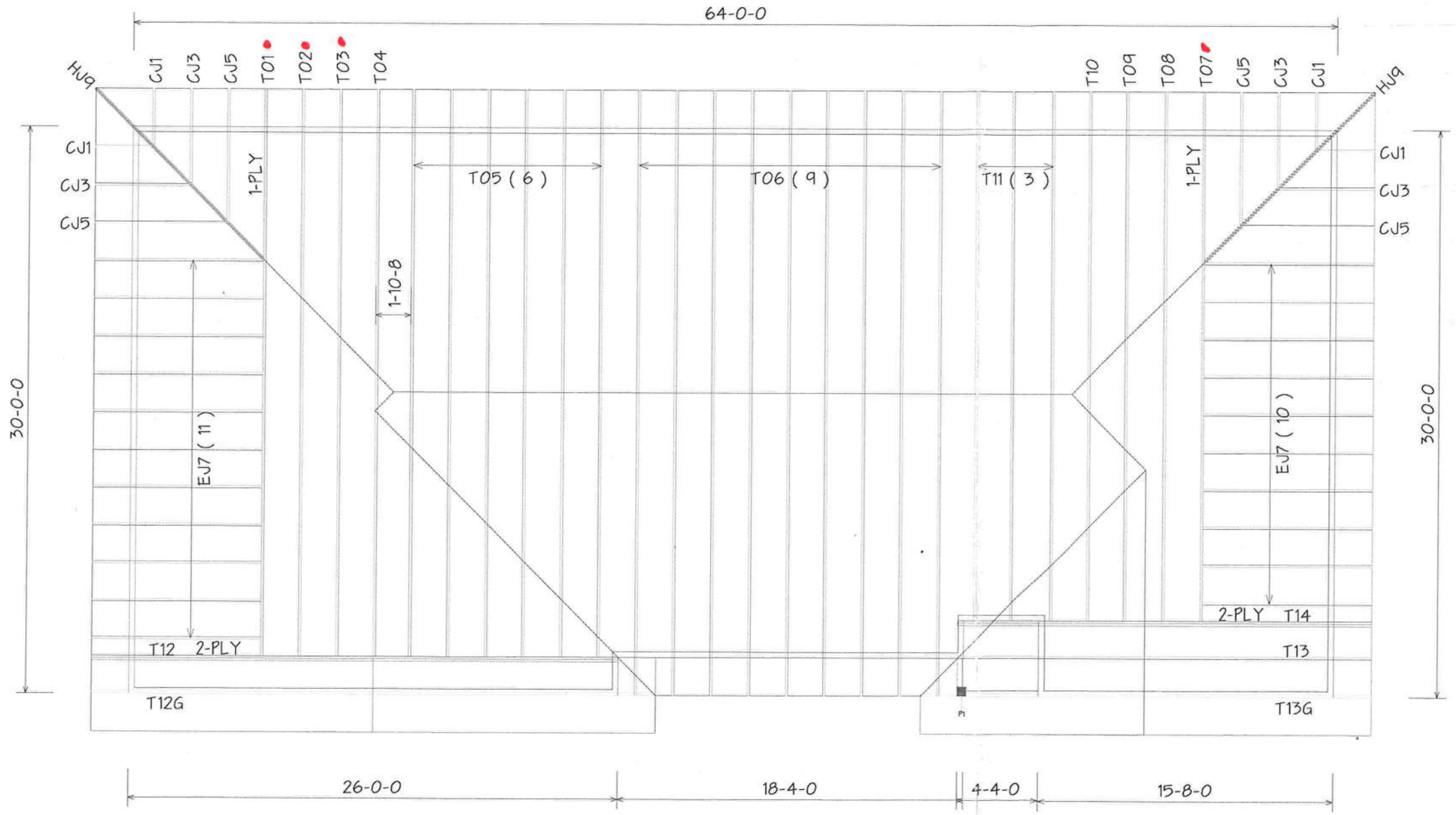
DESIGN CRITERIA

IBHS GUIDLINE FOR HURRICANE RESISTANCE RESIDENTUAL CONSTRUCTION

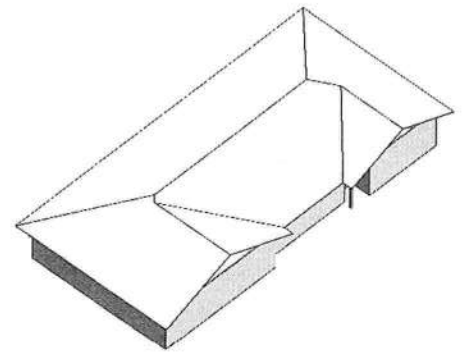
ROBERT CLARK	CELL # 352-538-9697	DRAWN BY: ROBERT CLARK		NO SCALE
27607 N CR 1491 ALACHUA,FL 32615		DATE: 08-25-2009	JOB OWNER & LOCATION	
R&M CONSTRUCTION & DEVELOPMENT LLC			LUIS & MINERVA ALVAREZ	
			162 SW NORMANDY DRIVE FORT WHITE,FL 32038	

5/12 PITCH - 2'-0" O/H

• = WEB BRACE, 'T'-BACK



ALL FLAT CEILINGS



BEARING HEIGHT SCHEDULE

	8'-1 1/8"

HANGER SCHEDULE
15 - HTU26

NOTES:

1) REFER TO HIB 91 (RECOMMENDATIONS FOR HANDLING INSTALLATION AND TEMPORARY BRACING.) REFER TO ENGINEERED DRAWINGS FOR PERMANENT BRACING REQUIRED.
2) ALL TRUSSES (INCLUDING TRUSSES UNDER VALLEY FRAMING) MUST BE COMPLETELY DECKED OR REFER TO DETAIL V105 FOR ALTERNATE BRACING REQUIREMENTS.
3) ALL VALLEYS ARE TO BE CONVENTIONALLY FRAMED BY BUILDER.
4) ALL TRUSSES ARE DESIGNED FOR 2' o.c. MAXIMUM SPACING, UNLESS OTHERWISE NOTED.
5) ALL WALLS SHOWN ON PLACEMENT PLAN ARE CONSIDERED TO BE LOAD BEARING, UNLESS OTHERWISE NOTED.
6) SY42 TRUSSES MUST BE INSTALLED WITH THE TOP BEING UP.
7) ALL ROOF TRUSS HANGERS TO BE SIMPSON HTU26 UNLESS OTHERWISE NOTED. ALL FLOOR TRUSS HANGERS TO BE SIMPSON THA422 UNLESS OTHERWISE NOTED.
8) BEAM/HEADER/LINTEL (HDR) TO BE FURNISHED BY BUILDER.

SHOP DRAWING APPROVAL

THIS LAYOUT IS THE SOLE SOURCE FOR FABRICATION OF TRUSSES AND VOIDS ALL PREVIOUS ARCHITECTURAL OR OTHER TRUSS LAYOUTS. REVIEW AND APPROVAL OF THIS LAYOUT MUST BE RECEIVED BEFORE ANY TRUSSES WILL BE BUILT. VERIFY ALL CONDITIONS TO INSURE AGAINST CHANGES THAT WILL RESULT IN EXTRA CHARGES TO YOU.

Requested Delivery Date: _____

Approved by: _____ Date: _____

Builders FirstSource
Bunnell
PHONE: 904-437-3349 FAX: 904-437-3994
Jacksonville
PHONE: 904-772-6100 FAX: 904-772-1973
Lake City
PHONE: 386-755-6894 FAX: 386-755-7973
Sanford
PHONE: 407-322-0059 FAX: 407-322-5553

BUILDER: R & M CONST.		
LEGAL ADDRESS: ALVAREZ RES.		
MODEL: CUSTOM		REVISION:
		SCALE: NTS
DATE: 8-31-09	DRAWN BY: K.L.H.	JOB #: 313910