

DATE 02/09/2004

**Columbia County Building Permit****PERMIT**

This Permit Expires One Year From the Date of Issue

000021494

APPLICANT HUGO ESCALANTE PHONE 386-288-8666  
 ADDRESS PO BOX 280 FORT WHITE FL 32038  
 OWNER DAVID & MARLENE CASTRO PHONE 386-497-2628  
 ADDRESS 660 SW MORNING STAR GLEN FORT WHITE FL 32038  
 CONTRACTOR HUGO ESCALANTE PHONE 288-8666  
 LOCATION OF PROPERTY 47 S, L INO SHANNA MEADOWS ON MORNING STAR GLEN, THIRD LOT  
FROM THE END ON THE RIGHT  
 TYPE DEVELOPMENT SFD, UTILITY ESTIMATED COST OF CONSTRUCTION 165800.00  
 HEATED FLOOR AREA 3316.00 TOTAL AREA 4245.00 HEIGHT 25.00 STORIES 1  
 FOUNDATION CONCRETE WALLS FRAMED ROOF PITCH 8/12 FLOOR SLAB  
 LAND USE & ZONING A-3 MAX. HEIGHT 35  
 Minimum Set Back Requirements: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00  
 NO. EX.D.U. 0 FLOOD ZONE XPP DEVELOPMENT PERMIT NO. \_\_\_\_\_  
 PARCEL ID 34-5S-16-03752-114 SUBDIVISION SHANNA MEADOWS  
 LOT 14 BLOCK \_\_\_\_\_ PHASE \_\_\_\_\_ UNIT \_\_\_\_\_ TOTAL ACRES 5.00

CRC1326967

Culvert Permit No. \_\_\_\_\_ Culvert Waiver \_\_\_\_\_ Contractor's License Number \_\_\_\_\_ Applicant/Owner Contractor \_\_\_\_\_  
 EXISTING 04-0027-N RJ BK Y  
 Driveway Connection \_\_\_\_\_ Septic Tank Number \_\_\_\_\_ LU & Zoning checked by \_\_\_\_\_ Approved for Issuance \_\_\_\_\_ New Resident \_\_\_\_\_

COMMENTS: NOC ON FILE, 1ST FLOOR ELEVATION NEEDS TO BE CERTIFIED AS DETERMINEDBY THE ENGINEER\*\*\*BEFORE THE SLAB IS POURED\*\*\*Check # or Cash 1313**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 \_\_\_\_\_ 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 \_\_\_\_\_  
 Permanent power \_\_\_\_\_ date/app. by \_\_\_\_\_ C.O. Final \_\_\_\_\_ date/app. by \_\_\_\_\_ Culvert \_\_\_\_\_ date/app. by \_\_\_\_\_  
 M/H tie downs, blocking, electricity and plumbing \_\_\_\_\_ date/app. by \_\_\_\_\_ Pool \_\_\_\_\_ date/app. by \_\_\_\_\_  
 Reconnection \_\_\_\_\_ date/app. by \_\_\_\_\_ Pump pole \_\_\_\_\_ date/app. by \_\_\_\_\_ Utility Pole \_\_\_\_\_ date/app. by \_\_\_\_\_  
 M/H Pole \_\_\_\_\_ date/app. by \_\_\_\_\_ Travel Trailer \_\_\_\_\_ date/app. by \_\_\_\_\_ Re-roof \_\_\_\_\_ date/app. by \_\_\_\_\_

BUILDING PERMIT FEE \$ 830.00 CERTIFICATION FEE \$ 21.23 SURCHARGE FEE \$ 21.23  
 MISC. FEES \$ .00 ZONING CERT. FEE \$ 50.00 FIRE FEE \$ \_\_\_\_\_ WASTE FEE \$ \_\_\_\_\_  
 FLOOD ZONE DEVELOPMENT FEE \$ \_\_\_\_\_ CULVERT FEE \$ \_\_\_\_\_ **TOTAL FEE** 922.46  
 INSPECTORS OFFICE Z. H. H. H. CLERKS OFFICE CH

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

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

**This Permit Must Be Prominently Posted on Premises During Construction**

PLEASE NOTIFY THE COLUMBIA COUNTY BUILDING DEPARTMENT AT LEAST 24 HOURS IN ADVANCE OF EACH INSPECTION, IN ORDER THAT IT MAY BE MADE WITHOUT DELAY OR INCONVENIENCE, PHONE 758-1008. THIS PERMIT IS NOT VALID UNLESS THE WORK AUTHORIZED BY IT IS COMMENCED WITHIN 6 MONTHS AFTER ISSUANCE.

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

## Notice of Treatment

**Applicator** Florida Pest Control & Chemical Co. 10758

**Address** 536 SE Bala

**City** Lake City **Phone** 7521703

**Site Location** **Subdivision** Shanna Meadows

**Lot#** 14 **Block#** 21494 **Permit#** 21494

**Address** 660 SW Morningstar Dr

### AREAS TREATED

Area Treated	Date	Time	Gal.	Print Technician's Name
Main Body	3/19/04	11:15	650	STEVEN
Patio/s #				
Stoop/s #				
Porch/s #				
Brick Veneer				
Extension Walls				
A/C Pad				
Walk/s #				
Exterior of Foundation				
Driveway Apron				
Out Building				
Tub Trap/s				
(Other)				

**Name of Product Applied** DVDSBAN TC .5 %

**Remarks** EXTERIOR PERIMETER

1. INCOMPLETE

Applicator - White • Permit File - Canary • Permit Holder - Pink



## Cal-Tech Testing, Inc.

- Engineering
- Geotechnical
- Environmental

P.O. Box 1625 • Lake City, FL 32056-1625  
6919 Distribution Avenue S., Unit #5 • Jacksonville, FL 32257

Tel. (386) 755-3633 • Fax (386) 752-5456  
Tel. (904) 262-4046 • Fax (904) 262-4047

February 9, 2004

Hugo Escalante  
15433 S. W. 146<sup>th</sup> Street  
Miami, Florida 33196

# 21494

Reference: Proposed Residence  
Lot 14, Shanna Meadows  
660 S. W. Morning Star Glen  
Fort White, Florida  
Cal-Tech Project No. 04-061  
Revised: February 9, 2004

Dear Mr. Escalante,

Cal-Tech Testing, Inc. has completed an investigation and evaluation of lot 14 of Shanna Meadows in Fort White, Florida. The purposes of our work were to evaluate the potential for flooding of a home to be constructed on the lot and to provide recommendations for selecting the finished floor elevation.

Based upon the U.S.G.S. quadrangle map and elevations determined on site, the adjacent roadway has an elevation of approximately 96.0 feet. Based upon this elevation, the center of the proposed home site has a ground surface elevation of approximately 89.9 feet. Thus the center of the home site is approximately 6.1 feet lower than the center of the adjacent roadway. The proposed finished floor elevation is approximately 91.0 feet or about 5.0 feet below the adjacent roadway.

We understand Columbia County regulations require the finished floor elevation of a new structure to be at least 12 inches above the elevation of the adjacent roadway unless it can be shown that such an elevation is not required to substantially reduce the likelihood of flooding.


Based upon the FEMA flood map, the only substantial flood area within approximately 5 miles of the site is the area of the Ichetucknee River to the northwest of Fort White, and flood elevations in this area are on the order of 40 feet, or roughly 50 feet lower than the home site elevation.

Therefore, based upon our evaluation, we believe there is no substantial risk for flooding at the proposed home site, and raising the finished floor elevation to 1 foot above the adjacent roadway elevation will not be required.

Based upon existing ground surface elevations at the perimeter of the proposed building area, we recommend a finished floor elevation be selected that is at least 0.5 feet higher than the highest adjacent ground surface elevation. Additionally, we recommend the ground surface at the perimeter of the residence be graded to slope away from the residence in all areas. Relative to the estimated roadway elevation of 96.0 feet, we believe a finished floor elevation of approximately 91.4 feet will be adequate to meet these requirements.

We appreciate the opportunity to be of service on this project and look forward to a continued association. Please do not hesitate to contact us should you have questions concerning this report or if we may be of further assistance.

Respectfully submitted,  
Cal-Tech Testing, Inc.



Linda Creamer  
President / CEO



John C. Dorman, Jr., Ph.D., P.E.  
Geotechnical Engineer

2/9/04  
52612

# 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

Percent <sup>#</sup> 21494

CLIENT: Richardson Site prep.

PROJECT: Castro Residences

AREA TESTED: ASH ↓ Prop BLDg 140.

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

TYPE OF TEST: ASTM D 2922 DATE TESTED: 4/24/09

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

REMARKS: \_\_\_\_\_

[illegible]

TECH. Control Tech.

# Building Permit Application

Date 1/23/04

21494

Application No. 0401-49


Applicants Name & Address Hugo Escalante Phone (305) 796 0733  
P.O. Box 980, Fort White FL 32038  
Owners Name & Address David and Marlene Castro Phone (386) 497-9698  
P.O. Box 980, Fort White FL 32038  
See Simple Owners Name & Address N/A Phone \_\_\_\_\_  
Contractors Name & Address EWPL, INC Hugo Escalante Phone 305 796 0733  
P.O. Box 980, Fort White Florida 32038  
Legal Description of Property Lot 14, Shanna Meadows, a subdivision as recorded in Plat Book 7, pages 76-77, Columbia  
Cd., FL, subject to restrictions recorded in OP Book 0933 pages 3634-3635 Columbia Cd., FL, subject to prior easements.  
Location of Property Take 47 South to Shanna Meadows, turn left at S.W. Morning Star Glenn.  
Driving Directions Go 1.0 mile on right to Lot 14.  
Tax Parcel Identification No. 34-55-16-03752-114 Estimated Cost of Construction \$ 180,000.00  
Type of Development SFR Number of Existing Dwellings on Property 0  
Comprehensive Plan Map Category A-3 Zoning Map Category A-3  
Building Height 25' Number of Stories 1 Floor Area 3316 SF Total Acreage in Development 5 Acres  
Distance From Property Lines (Set Backs) Front 980' Side 125' Rear 980' Street 980'  
Flood Zone None X or plot Certification Date \_\_\_\_\_ Development Permit N/A  
Lending Company Name & Address N/A  
Architect/Engineer Name & Address Daniel Shaheen, PO Box 973, Lake City, FL 32056  
Mortgage Lenders Name & Address N/A

Application is hereby made to obtain a permit to do the 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 will be performed to meet the standards of all laws regulating construction in this jurisdiction.

**OWNERS AFFIDAVIT:** I hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws regulating construction and zoning.

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Hugo Escalante  
Owner or Agent (including contractor)

Shiela Darlene Kaemmer  
 Shiela Darlene Kaemmer  
My Commission CC933296  
Expires June 24 2004

Hugo Escalante  
Contractor

CRC1326967  
Contractor License Number

STATE OF FLORIDA  
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me  
this 23 day of Jan by 2003

E 245-330-61-401-0

Personally Known \_\_\_\_\_ OR Produced Identification

STATE OF FLORIDA  
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me  
this 23 day of Jan by 2003

E 245-330-61-401-0

Personally Known \_\_\_\_\_ OR Produced Identification

Permit No. \_\_\_\_\_

Tax Parcel No. 34-55-16-03759-114

## COLUMBIA COUNTY NOTICE OF COMMENCEMENT

STATE OF FLORIDA

COUNTY OF COLUMBIA

Inst: 2004001426 Date: 01/23/2004 Time: 09:56  
MCK DC, P. Dewitt Cason, Columbia County B: 1005 P: 317

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: (legal description of the property, and street address if available.)

Lot 14, Shanna Meadows, a subdivision as recorded in  
Plat Book 7, pages 76-77, Columbia County, Florida, subject to  
Restrictions recorded in O.R. Book 0933, Pages 2634-2635, Columbia  
County, Florida and subject to power line easements.

2. General description of improvement: New Family Residence  
Single Family Home

3. Owner Information:

A. Name and address:

David A. Castro and Marlene F. Castro  
P.O. Box 280, Ft White, FL 32038

B. Interest in property:

100% Owners

C. Name and address of fee simple titleholder (if other than owner):

N/A

4. Contractor: (name and address)

Hugo Escalante (EWPL INC)  
P.O. Box 280, Fort White, FL 32038

5. Surety

A. Name and address: N/A

B. Amount of bond:

N/A

6. Lender: (name and address) N/A

7. Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 718.13 (1) (a) 7., Florida Statutes: (name and address) Hugo Escalante

8. In addition to himself, owner designates \_\_\_\_\_  
of \_\_\_\_\_ to receive a copy of  
the Lienor's Notice as provided in Section 713.13 (1) (a) 7., 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) \_\_\_\_\_.


Handwritten Signature  
(Signature of Owner)

SWORN TO and subscribed before me this 23 day of January  
19 2003

Shiela Darlene Kaemmer  
Notary Public

(NOTARIAL  
SEAL)

My Commission Expires:

 Shiela Darlene Kaemmer  
My Commission CC933296  
Expires June 24 2004

Inst:2004001426 Date:01/23/2004 Time:09:56  
\_\_\_\_\_, P. DeWitt Cason, Columbia County B:1005 P:318



## COLUMBIA COUNTY 9-1-1 ADDRESSING

263 NW Lake City Ave. \* P. O. Box 2949 \* Lake City, FL 32056-2949

PHONE: (386) 752-8787 \* FAX: (386) 758-1365 \* Email: ron\_croft@columbiacountyfla.com

### Addressing Maintenance

To maintain the Countywide addressing Policy you must make application for a 9-1-1 Address at the time you apply for a building permit. The established standards for assigning and posting numbers to all principal buildings, dwellings, businesses and industries are contained in Columbia County Ordinance 2001-9. The addressing system is to enable Emergency Service Agencies to locate you in an emergency, and to assist the United States Postal Service and the public in the timely and efficient provision of services to residents and businesses of Columbia County.

DATE ISSUED: December 29, 2003

ENHANCED 9-1-1 ADDRESS:

660 SW MORNING STAR GLN (FORT WHITE, FL 32038)

Addressed Location 911 Phone Number: NOT AVAIL.

OCCUPANT NAME: NOT AVAIL.

OCCUPANT CURRENT MAILING ADDRESS: \_\_\_\_\_

PROPERTY APPRAISER MAP SHEET NUMBER: \_\_\_\_\_

PROPERTY APPRAISER PARCEL NUMBER: 34-58-16-03752-<sup>114</sup>~~100~~ <sup>114</sup>

Other Contact Phone Number (If any): \_\_\_\_\_

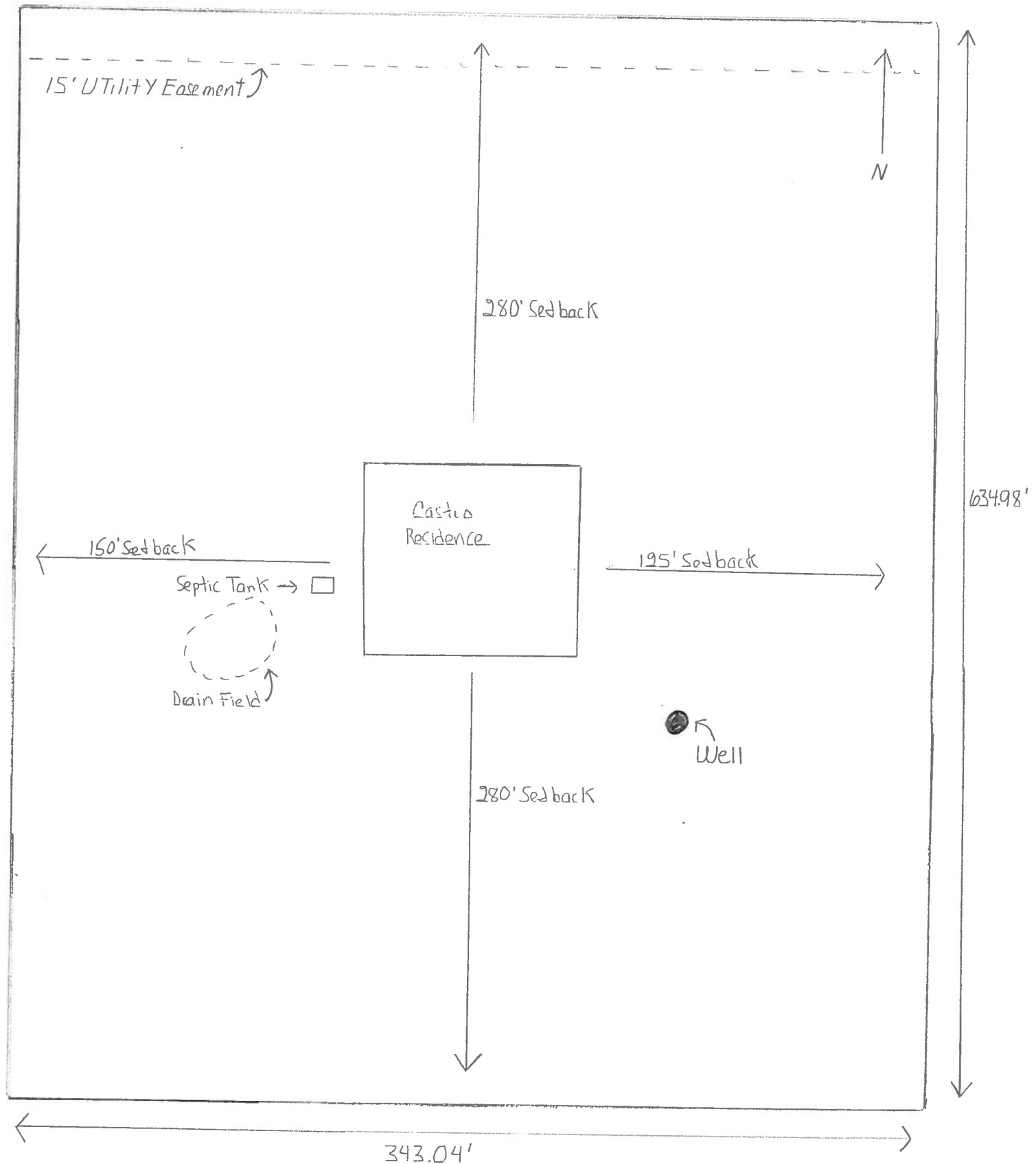
Building Permit Number (If known): \_\_\_\_\_

Remarks: \_\_\_\_\_

Address Issued By: \_\_\_\_\_

Columbia County 9-1-1 Addressing Department

Site Plan (Castro Residence)  
Parcel ID# 34-55-16-03752-114  
Shanna Meadows Lot 14



N. LINE OF S.1/2 OF S.1/2-  
OF SECTION 34

CON. MON.  
FOUND-  
LB 7042

NOT A PART

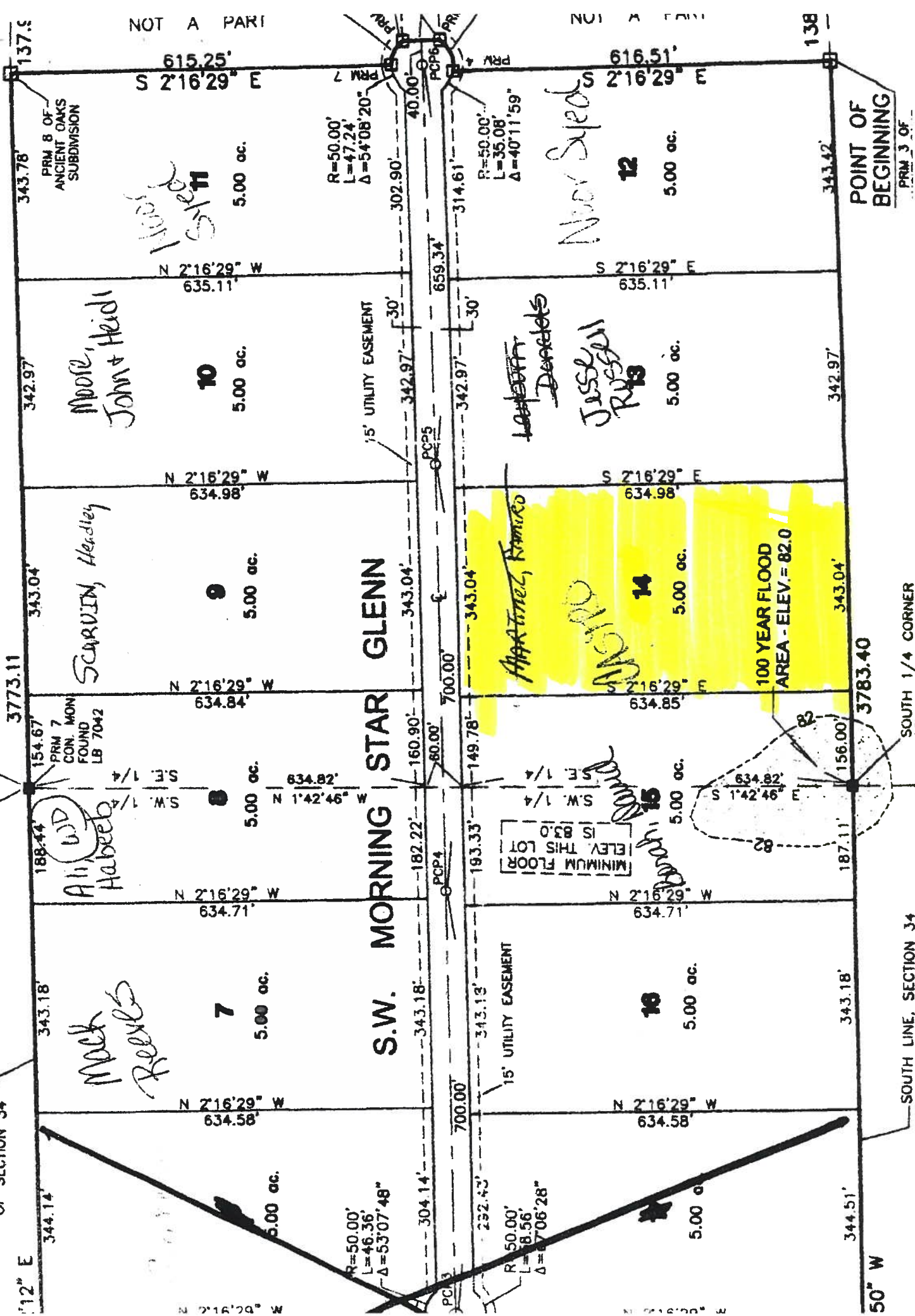
NOT A FAN

138

**POINT OF  
BEGINNING**

SOUTH LINE, SECTION 34

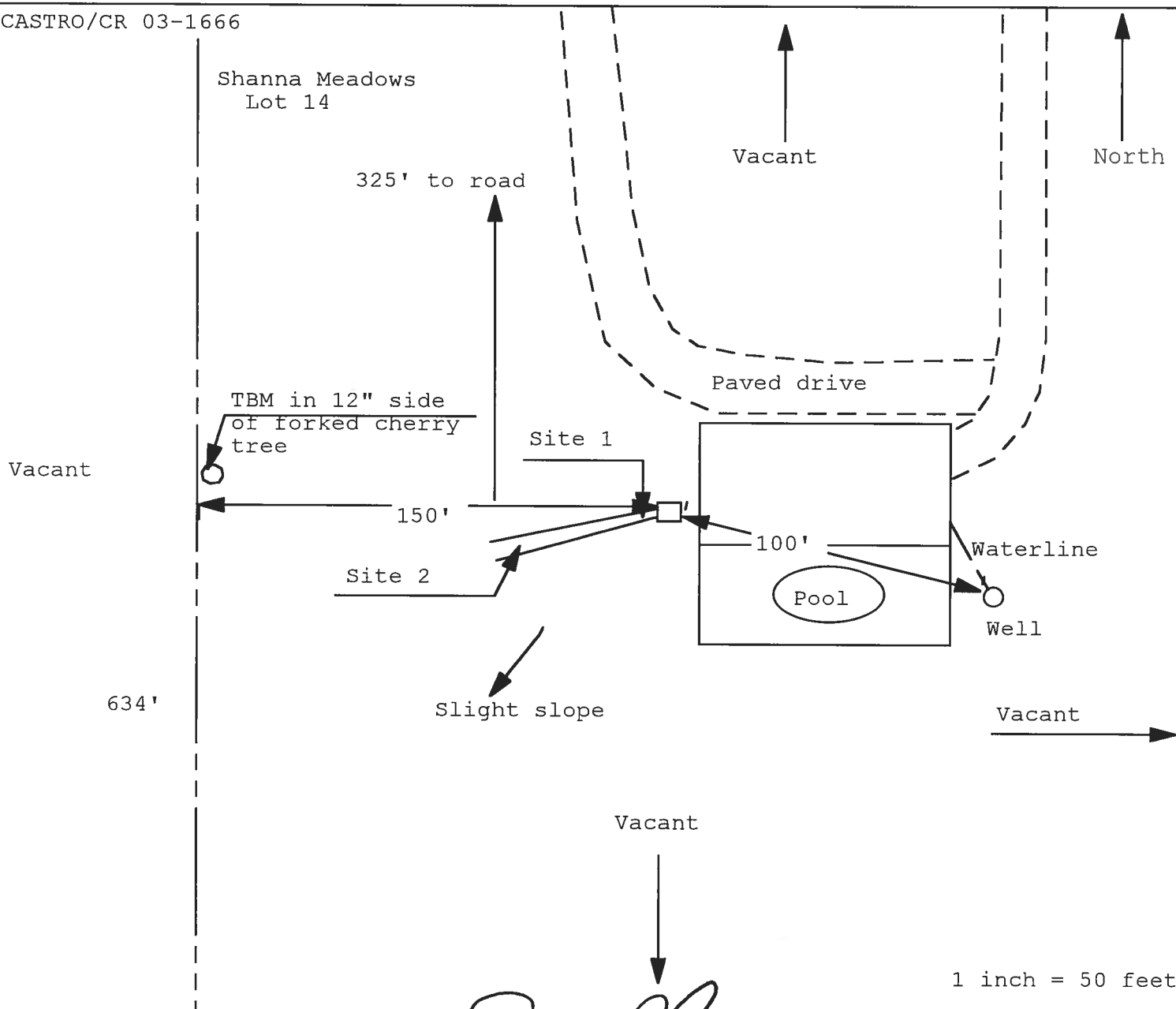
50" W



Application for Onsite Sewage Disposal System  
Construction Permit. Part II Site Plan  
Permit Application Number: 04-0027N

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

CASTRO/CR 03-1666



Site Plan Submitted By Paul Lloyd Date 1/7/04  
Plan Approved Paul Lloyd Not Approved Paul Lloyd Date 1/7/04  
By Paul Lloyd Reviewed by R. K. Keweenaw Columbia CPHU 01-12-04

Notes: \_\_\_\_\_

# FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs  
Residential Whole Building Performance Method A

Project Name:	Castro Residence	Builder:	EWPL INC
Address:	660 SW Morningstar Glen	Permitting Office:	Columbia County
City, State:	Fort White, fl 32038-	Permit Number:	21494
Owner:	David Castro	Jurisdiction Number:	221000
Climate Zone:	North		

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 30.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 10.00
4. Number of Bedrooms	4	b. Central Unit	Cap: 30.0 kBtu/hr
5. Is this a worst case?	Yes		SEER: 10.00
6. Conditioned floor area (ft <sup>2</sup> )	3316 ft <sup>2</sup>	c. N/A	
7. Glass area & type		13. Heating systems	
a. Clear - single pane	0.0 ft <sup>2</sup>	a. Electric Heat Pump	Cap: 30.0 kBtu/hr
b. Clear - double pane	541.9 ft <sup>2</sup>		HSPF: 6.80
c. Tint/other SHGC - single pane	0.0 ft <sup>2</sup>	b. Electric Heat Pump	Cap: 30.0 kBtu/hr
d. Tint/other SHGC - double pane	0.0 ft <sup>2</sup>		HSPF: 6.80
8. Floor types		c. N/A	
a. Slab-On-Grade Edge Insulation	R=0.0, 310.0(p) ft	14. Hot water systems	
b. N/A		a. Electric Resistance	Cap: 50.0 gallons
c. N/A			EF: 0.86
9. Wall types		b. Electric Resistance	Cap: 50.0 gallons
a. Frame, Wood, Adjacent	R=13.0, 189.0 ft <sup>2</sup>		EF: 0.86
b. Frame, Wood, Exterior	R=13.0, 3066.0 ft <sup>2</sup>	c. Conservation credits	
c. N/A		(HR-Heat recovery, Solar	
d. N/A		DHP-Dedicated heat pump)	
e. N/A		15. HVAC credits	CF, _____
10. Ceiling types		(CF-Ceiling fan, CV-Cross ventilation,	
a. Under Attic	R=30.0, 3316.0 ft <sup>2</sup>	HF-Whole house fan,	
b. N/A		PT-Programmable Thermostat,	
c. N/A		MZ-C-Multizone cooling,	
11. Ducts		MZ-H-Multizone heating)	
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 130.0 ft		
b. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 130.0 ft		

Glass/Floor Area: 0.16

Total as-built points: 47818

Total base points: 49010

## PASS

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

PREPARED BY: \_\_\_\_\_

DATE: 1-23-09

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

OWNER/AGENT: \_\_\_\_\_

DATE: \_\_\_\_\_

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: \_\_\_\_\_

# SUMMER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: 660 SW Morningstar Glen, Fort White, fl, 32038-

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned X BSPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt			Area X SPM X SOF = Points			
.18	3316.0	20.04	11961.5	Double, Clear	W	1.5	9.8	90.0	36.99	0.98	3252.1
				Double, Clear	W	8.0	12.5	15.6	36.99	0.65	374.9
				Double, Clear	W	8.0	4.0	19.8	36.99	0.41	300.2
				Double, Clear	W	2.5	2.0	4.0	36.99	0.48	70.7
				Double, Clear	S	1.5	6.5	4.0	34.50	0.88	121.0
				Double, Clear	SE	1.5	8.2	21.0	40.86	0.95	814.2
				Double, Clear	E	1.5	8.2	52.5	40.22	0.96	2027.8
				Double, Clear	E	10.5	10.0	24.0	40.22	0.51	487.8
				Double, Clear	E	10.5	4.0	12.0	40.22	0.36	174.9
				Double, Clear	NE	1.5	8.2	21.0	28.72	0.96	581.6
				Double, Clear	S	20.0	10.5	45.0	34.50	0.45	704.2
				Double, Clear	E	1.5	10.5	45.0	40.22	0.98	1777.3
				Double, Clear	S	1.5	9.2	32.0	34.50	0.95	1045.5
				Double, Clear	S	1.5	3.1	12.0	34.50	0.67	275.9
				Double, Clear	E	1.5	11.4	48.0	40.22	0.99	1907.1
				Double, Clear	E	1.5	12.8	24.0	40.22	0.99	959.4
				Double, Clear	N	1.5	6.3	72.0	19.22	0.94	1305.2
				As-Built Total:			541.9			16179.8	
WALL TYPES Area X BSPM = Points				Type	R-Value			Area X SPM = Points			
Adjacent	189.0	0.70	132.3	Frame, Wood, Adjacent	13.0			189.0	0.60	113.4	
Exterior	3066.0	1.70	5212.2	Frame, Wood, Exterior	13.0			3066.0	1.50	4599.0	
Base Total: 3255.0 5344.5				As-Built Total:			3255.0			4712.4	
DOOR TYPES Area X BSPM = Points				Type				Area X SPM = Points			
Adjacent	18.0	2.40	43.2	Exterior Wood				20.0	6.10	122.0	
Exterior	137.0	6.10	835.7	Exterior Wood				20.0	6.10	122.0	
				Exterior Wood				17.0	6.10	103.7	
				Exterior Wood				40.0	6.10	244.0	
				Exterior Wood				40.0	6.10	244.0	
				Adjacent Wood				18.0	2.40	43.2	
Base Total: 155.0 878.9				As-Built Total:			155.0			878.9	
CEILING TYPES Area X BSPM = Points				Type	R-Value			Area X SPM X SCM = Points			
Under Attic	3316.0	1.73	5736.7	Under Attic	30.0			3316.0	1.73 X 1.00	5736.7	
Base Total: 3316.0 5736.7				As-Built Total:			3316.0			5736.7	

**SUMMER CALCULATIONS****Residential Whole Building Performance Method A - Details**ADDRESS: **660 SW Morningstar Glen, Fort White, fl, 32038-**

PERMIT #:

<b>BASE</b>				<b>AS-BUILT</b>			
<b>FLOOR TYPES</b>	<b>Area X BSPM = Points</b>			<b>Type</b>	<b>R-Value</b>	<b>Area X SPM = Points</b>	
Slab	310.0(p)	-37.0	-11470.0	Slab-On-Grade Edge Insulation	0.0	310.0(p)	-41.20
Raised	0.0	0.00	0.0				
<b>Base Total:</b>			<b>-11470.0</b>	<b>As-Built Total:</b>		<b>310.0</b>	<b>-12772.0</b>
<b>INFILTRATION</b>	<b>Area X BSPM = Points</b>					<b>Area X SPM = Points</b>	
	3316.0	10.21	33856.4			3316.0	10.21
<b>Summer Base Points:</b>			<b>46307.9</b>	<b>Summer As-Built Points:</b>			<b>48592.1</b>
Total Summer Points	X	System Multiplier	= Cooling Points	Total Component	X Cap Ratio	X Duct Multiplier	X System Multiplier
						(DM x DSM x AHU)	X Credit Multiplier
				48592.1	0.500	(1.090 x 1.147 x 0.91)	0.341
				48592.1	0.500	(1.090 x 1.147 x 1.00)	0.341
<b>46307.9</b>	<b>0.4266</b>		<b>19755.0</b>	<b>48592.1</b>	<b>1.00</b>	<b>1.194</b>	<b>0.341</b>
							<b>0.950</b>
							<b>9405.7</b>
							<b>18811.3</b>

# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: 660 SW Morningstar Glen, Fort White, fl, 32038-

PERMIT #:

BASE				AS-BUILT								
<b>GLASS TYPES</b>												
.18 X Conditioned X BWPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt	Area X WPM X WOF = Points						
.18	3316.0	12.74	7604.3	Double, Clear	W	1.5	9.8	90.0	10.77	1.01	974.9	
				Double, Clear	W	8.0	12.5	15.6	10.77	1.11	186.6	
				Double, Clear	W	8.0	4.0	19.8	10.77	1.22	261.0	
				Double, Clear	W	2.5	2.0	4.0	10.77	1.19	51.3	
				Double, Clear	S	1.5	6.5	4.0	4.03	1.09	17.6	
				Double, Clear	SE	1.5	8.2	21.0	5.33	1.05	117.2	
				Double, Clear	E	1.5	8.2	52.5	9.09	1.02	486.3	
				Double, Clear	E	10.5	10.0	24.0	9.09	1.30	283.5	
				Double, Clear	E	10.5	4.0	12.0	9.09	1.50	163.4	
				Double, Clear	NE	1.5	8.2	21.0	13.40	1.00	281.8	
				Double, Clear	S	20.0	10.5	45.0	4.03	3.49	632.2	
				Double, Clear	E	1.5	10.5	45.0	9.09	1.01	413.8	
				Double, Clear	S	1.5	9.2	32.0	4.03	1.02	131.7	
				Double, Clear	S	1.5	3.1	12.0	4.03	1.61	77.6	
				Double, Clear	E	1.5	11.4	48.0	9.09	1.01	440.5	
				Double, Clear	E	1.5	12.8	24.0	9.09	1.01	219.8	
				Double, Clear	N	1.5	6.3	72.0	14.30	1.00	1032.1	
				<b>As-Built Total:</b>				<b>541.9</b>	<b>5771.3</b>			
<b>WALL TYPES</b> Area X BWPM = Points				Type	R-Value	Area X WPM = Points						
Adjacent	189.0	3.60	680.4	Frame, Wood, Adjacent	13.0	189.0	3.30	623.7				
Exterior	3066.0	3.70	11344.2	Frame, Wood, Exterior	13.0	3066.0	3.40	10424.4				
<b>Base Total:</b>				<b>As-Built Total:</b>		<b>3255.0</b>		<b>11048.1</b>				
<b>DOOR TYPES</b> Area X BWPM = Points				Type	Area X WPM = Points							
Adjacent	18.0	11.50	207.0	Exterior Wood	20.0 12.30		246.0					
Exterior	137.0	12.30	1685.1	Exterior Wood	20.0 12.30		246.0					
				Exterior Wood	17.0 12.30		209.1					
				Exterior Wood	40.0 12.30		492.0					
				Exterior Wood	40.0 12.30		492.0					
				Adjacent Wood	18.0 11.50		207.0					
<b>Base Total:</b>				<b>As-Built Total:</b>		<b>155.0</b>		<b>1892.1</b>				
<b>CEILING TYPES</b> Area X BWPM = Points				Type	R-Value	Area X WPM X WCM = Points						
Under Attic	3316.0	2.05	6797.8	Under Attic	30.0	3316.0	2.05 X 1.00	6797.8				
<b>Base Total:</b>				<b>As-Built Total:</b>		<b>3316.0</b>		<b>6797.8</b>				



# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: 660 SW Morningstar Glen, Fort White, fl, 32038-

PERMIT #:

BASE				AS-BUILT				
FLOOR TYPES Area X BWPM = Points				Type	R-Value	Area X	WPM	= Points
Slab	310.0(p)	8.9	2759.0	Slab-On-Grade Edge Insulation	0.0	310.0(p)	18.80	5828.0
Raised	0.0	0.00	0.0					
Base Total:				As-Built Total:				
2759.0				310.0 5828.0				
INFILTRATION Area X BWPM = Points				Area X WPM = Points				
3316.0 -0.59 -1956.4				3316.0 -0.59 -1956.4				
Winter Base Points: 29121.3				Winter As-Built Points: 29380.9				
Total Winter Points	X	System Multiplier	= Heating Points	Total Component	X Cap Ratio	X Duct Multiplier	X System Multiplier	X Credit Multiplier = Heating Points
				(DM x DSM x AHU)				
				29380.9	0.500	(1.069 x 1.169 x 0.93)	0.501	1.000 8883.8
				29380.9	0.500	(1.069 x 1.169 x 1.00)	0.501	1.000 8883.8
29121.3		0.6274	18270.7	29380.9	1.00	1.206	0.501	1.000 17767.6

# WATER HEATING & CODE COMPLIANCE STATUS

## Residential Whole Building Performance Method A - Details

ADDRESS: 660 SW Morningstar Glen, Fort White, fl, 32038-

PERMIT #:

BASE				AS-BUILT					
<b>WATER HEATING</b>				Tank	EF	Number of	X	Tank	X
Number of	X	Multiplier	=	Volume		Bedrooms		Ratio	Multiplier
Bedrooms			Total						= Total
4		2746.00	10984.0	50.0	0.86	4		0.50	2809.86
				50.0	0.86	4		0.50	2809.86
				As-Built Total:					11239.4

## CODE COMPLIANCE STATUS

BASE					AS-BUILT				
Cooling	+	Heating	+	Hot Water	=	Total	Cooling	+	Heating
Points		Points		Points		Points	Points		Points
19755		18271		10984		49010	18811		17768
									11239
									47818

PASS



# Code Compliance Checklist

## Residential Whole Building Performance Method A - Details

ADDRESS: 660 SW Morningstar Glen, Fort White, fl, 32038-

PERMIT #:

**6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST**

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	606.1.ABC.1.1	Maximum: .3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	
Exterior & Adjacent Walls	606.1.ABC.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	606.1.ABC.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	606.1.ABC.1.2.3	Between walls & ceilings; penetrations of ceiling plane of 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	606.1.ABC.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 rated with < 2.0 cfm from conditioned space, tested.	
Multi-story Houses	606.1.ABC.1.2.5	Air barrier on perimeter of floor cavity between floors.	
Additional Infiltration reqts	606.1.ABC.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	

**6A-22 OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)**

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	612.1	Comply with efficiency requirements in Table 6-12. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	612.1	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%.	
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	604.1, 602.1	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 SCORE\* = 82.4**

**The higher the score, the more efficient the home.**

David Castro, 660 SW Morningstar Glen, Fort White, fl, 32038-

1. New construction or existing	New	___	12. Cooling systems	
2. Single family or multi-family	Single family	___	a. Central Unit	Cap: 30.0 kBtu/hr ___
3. Number of units, if multi-family	1	___		SEER: 10.00 ___
4. Number of Bedrooms	4	___	b. Central Unit	Cap: 30.0 kBtu/hr ___
5. Is this a worst case?	Yes	___		SEER: 10.00 ___
6. Conditioned floor area (ft <sup>2</sup> )	3316 ft <sup>2</sup>	___	c. N/A	___
7. Glass area & type		___	13. Heating systems	
a. Clear - single pane	0.0 ft <sup>2</sup>	___	a. Electric Heat Pump	Cap: 30.0 kBtu/hr ___
b. Clear - double pane	541.9 ft <sup>2</sup>	___		HSPF: 6.80 ___
c. Tint/other SHGC - single pane	0.0 ft <sup>2</sup>	___	b. Electric Heat Pump	Cap: 30.0 kBtu/hr ___
d. Tint/other SHGC - double pane	0.0 ft <sup>2</sup>	___		HSPF: 6.80 ___
8. Floor types		___	c. N/A	___
a. Slab-On-Grade Edge Insulation	R=0.0, 310.0(p) ft	___	14. Hot water systems	
b. N/A	___	___	a. Electric Resistance	Cap: 50.0 gallons ___
c. N/A	___	___		EF: 0.86 ___
9. Wall types		___	b. Electric Resistance	Cap: 50.0 gallons ___
a. Frame, Wood, Adjacent	R=13.0, 189.0 ft <sup>2</sup>	___		EF: 0.86 ___
b. Frame, Wood, Exterior	R=13.0, 3066.0 ft <sup>2</sup>	___	c. Conservation credits	___
c. N/A	___	___	(HR-Heat recovery, Solar	
d. N/A	___	___	DHP-Dedicated heat pump)	
e. N/A	___	___	15. HVAC credits	CF, ___
10. Ceiling types		___	(CF-Ceiling fan, CV-Cross ventilation,	
a. Under Attic	R=30.0, 3316.0 ft <sup>2</sup>	___	HF-Whole house fan,	
b. N/A	___	___	PT-Programmable Thermostat,	
c. N/A	___	___	RB-Attic radiant barrier,	
11. Ducts		___	MZ-C-Multizone cooling,	
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 130.0 ft	___	MZ-H-Multizone heating)	
b. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 130.0 ft	___		

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: \_\_\_\_\_

Address of New Home: \_\_\_\_\_ City/FL Zip: \_\_\_\_\_



*\*NOTE: The home's estimated energy performance score is only available through the FLA/RES computer program. This is not a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStar<sup>TM</sup> designation), your home may qualify for energy efficiency mortgage (EEM) 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 [www.fsec.ucf.edu](http://www.fsec.ucf.edu) 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.*

EnergyGauge® (Version: FLRCPB v3.2)

**Cal-Tech Testing, Inc.**

- Engineering
- Geotechnical
- Environmental

P.O. Box 1025 • Lake City, FL 32056-1025  
8919 Distribution Avenue S., Unit 85 • Jacksonville, FL 32257

Tel. (386) 756-3633 • Fax (386) 752-6466  
Tel. (904) 262-4046 • Fax (904) 262-4047

February 9, 2004

Hugo Escalante  
15433 S. W. 146<sup>th</sup> Street  
Miami, Florida 33196

*Correct*

Reference: Proposed Residence  
Lot 14, Shanna Meadows  
680 S. W. Morning Star Glen  
Fort White, Florida  
Cal-Tech Project No. 04-061  
Revised: February 9, 2004

Dear Mr. Escalante,

Cal-Tech Testing, Inc. has completed an investigation and evaluation of lot 14 of Shanna Meadows in Fort White, Florida. The purposes of our work were to evaluate the potential for flooding of a home to be constructed on the lot and to provide recommendations for selecting the finished floor elevation.

Based upon the U.S.G.S. quadrangle map and elevations determined on site, the adjacent roadway has an elevation of approximately 96.0 feet. Based upon this elevation, the center of the proposed home site has a ground surface elevation of approximately 89.9 feet. Thus the center of the home site is approximately 6.1 feet lower than the center of the adjacent roadway. The proposed finished floor elevation is approximately 91.0 feet or about 5.0 feet below the adjacent roadway.

We understand Columbia County regulations require the finished floor elevation of a new structure to be at least 12 inches above the elevation of the adjacent roadway unless it can be shown that such an elevation is not required to substantially reduce the likelihood of flooding.

Based upon the FEMA flood map, the only substantial flood area within approximately 5 miles of the site is the area of the Ichetucknee River to the northwest of Fort White, and flood elevations in this area are on the order of 40 feet, or roughly 50 feet lower than the home site elevation.

Therefore, based upon our evaluation, we believe there is no substantial risk for flooding at the proposed home site, and raising the finished floor elevation to 1 foot above the adjacent roadway elevation will not be required.

*"Excellence in Engineering & Geoscience"*

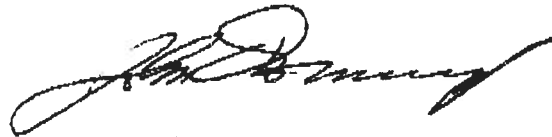
Based upon existing ground surface elevations at the perimeter of the proposed building area, we recommend a finished floor elevation be selected that is at least 0.5 feet higher than the highest adjacent ground surface elevation. Additionally, we recommend the ground surface at the perimeter of the residence be graded to slope away from the residence in all areas. Relative to the estimated roadway elevation of 96.0 feet, we believe a finished floor elevation of approximately 91.4 feet will be adequate to meet these requirements.

We appreciate the opportunity to be of service on this project and look forward to a continued association. Please do not hesitate to contact us should you have questions concerning this report or if we may be of further assistance.

Respectfully submitted,  
Cal-Tech Testing, Inc.



Linda Creamer  
President / CEO



John C. Dorman, Jr., Ph.D., P.E.  
Geotechnical Engineer

2/9/04  
52612



## Cal-Tech Testing, Inc.

- Engineering
- Geotechnical
- Environmental

LABORATORIES

P.O. Box 1625 • Lake City, FL 32056-1625  
6919 Distribution Avenue S., Unit #5 • Jacksonville, FL 32257

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void

February 9, 2004

Hugo Escalante  
15433 S. W. 146<sup>th</sup> Street  
Miami, Florida 33196

Reference: Proposed Residence  
Lot 14, Shanna Meadows  
660 S. W. Morning Star Glen  
Fort White, Florida  
Cal-Tech Project No. 04-061

Dear Mr. Escalante,

Cal-Tech Testing, Inc. has completed an investigation and evaluation of lot 14 of Shanna Meadows in Fort White, Florida. The purposes of our work were to evaluate the potential for flooding of a home to be constructed on the lot and to provide recommendations for selecting the finished floor elevation.

Based upon the U.S.G.S. quadrangle map and elevations determined on site, the adjacent roadway has an elevation of approximately 96.0 feet. Based upon this elevation, the center of the proposed home site has a ground surface elevation of approximately 89.9 feet. Thus the center of the home site is approximately 6.1 feet lower than the center of the adjacent roadway. The proposed finished floor elevation is approximately 91.0 feet or about 5.0 feet below the adjacent roadway.

We understand Columbia County regulations require the finished floor elevation of a new structure to be at least 12 inches above the elevation of the adjacent roadway unless it can be shown that such an elevation is not required to substantially reduce the likelihood of flooding.

Based upon the FEMA flood map, the only substantial flood area within approximately 5 miles of the site is the area of the Ichetucknee River to the northwest of Fort White, and flood elevations in this area are on the order of 40 feet, or roughly 50 feet lower than the home site elevation.

Therefore, based upon our evaluation, we believe there is no substantial risk for flooding at the proposed home site, and raising the finished floor elevation to 1 foot above the adjacent roadway elevation will not be required. We recommend use a finished floor elevation near or slightly above the proposed elevation of about 91.0 feet.

We appreciate the opportunity to be of service on this project and look forward to a continued association. Please do not hesitate to contact us should you have questions concerning this report or if we may be of further assistance.

Respectfully submitted,  
Cal-Tech Testing, Inc.

A handwritten signature in black ink that reads "Linda Creamer". The script is fluid and cursive.

Linda Creamer  
President / CEO

A handwritten signature in blue ink that reads "John C. Dorman, Jr.". The script is fluid and cursive.

John C. Dorman, Jr., Ph.D., P.E.  
Geotechnical Engineer

2/9/04

52612



# COLUMBIA COUNTY OFFICE CITY OF ALBUQUERQUE

## 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 34-5S-16-03752-114

Building permit No. 21494

Use Classification

SINGLE FAMILY DWELLING

Fire:

68.00

Permit Holder

HUGO ESCALANTE

Waste:

147.00

Owner of Building

DAVID & MARLENE CASTRO

Total:

215.00

Location:

660 SW MORNING STAR GLEN, FT. WHITE, FL 32038

Date: OCTOBER 11, 2004

*[Signature]*

Building Inspector

POST IN A CONSPICUOUS PLACE  
(Business Places Only)