

Columbia County Building Permit

PERMIT

This Permit Expires One Year From the Date of Issue

000023048

PHILLIP POMEROY
679 BLACKSHEAR RD THOMASVILLE GA 31792
PHONE 229-225-1730
DONALD HARRIS
1108 SW BLUFF DR FORT WHITE FL 32038
PHONE 752-7669
CONTRACTOR EBE WALTER/PENNYWORTH HOMES
PHONE 229-225-1730
LOCATION OF PROPERTY 47 S, R HOLINGSWRTH RD, R SW BLUFF DRIVE, IT IS THE 7TH
ON THE LEFT (RIVER SIDE OF ROAD) BACK FROM BURGANDY LN
TYPE DEVELOPMENT SFD, UTILITY ESTIMATED COST OF CONSTRUCTION 66000.00
HEATED FLOOR AREA 1320.00 TOTAL AREA 1580.00 HEIGHT 23.00 STORIES 1
FOUNDATION WALLS FRAMED ROOF PITCH 6/12 FLOOR
LAND USE & ZONING ESA-2 MAX. HEIGHT 35
Minimum Set Back Requirements: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00
NO. EX.D.U. 0 FLOOD ZONE AE F DEVELOPMENT PERMIT NO. 05-007

PARCEL ID 18-7S-16-04236-049 SUBDIVISION CEDAR SPRINGS SHORES
LOT 13 BLOCK PHASE UNIT 5 TOTAL ACRES 1.80

CRC058477
Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor
EXISTING 04-1018-E BK Y
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: ZERO RISE LETTER INCLUDED, FINISHED FLOOR ELEVATION CERTIFICATION
NEEDED BEFORE POWER SHOWING A FINISHED FLOOR SET A MINIMUM 37'

IN THE FLOODWAY, SWRMD INFO INCLUDED, AUTHORIZED SIGNER Check # or Cash 70351

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 \$ 330.00 CERTIFICATION FEE \$ 7.90 SURCHARGE FEE \$ 7.90
MISC. FEES \$.00 ZONING CERT. FEE \$ 50.00 FIRE FEE \$ WASTE FEE \$
FLOOD ZONE DEVELOPMENT FEE \$ 50.00 CULVERT FEE \$ TOTAL FEE 445.80

INSPECTORS OFFICE

CLERKS OFFICE

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.

N3
**NICHOLAS
PAUL
GEISLER**
ARCHITECT
N.C.A.R.B. Certified ■ 1758 NW Brown Road
■ Lake City, FL 32055
■ 386/755-9021

12 APRIL 2005

JOE HALTIWANGER, PLANS EXAMINER
COLUMBIA COUNTY BUILDING DEPARTMENT
COLUMBIA COUNTY COURTHOUSE ANNEX
LAKE CITY, FLORIDA

RE: BRINKLEY RESIDENCE FOR CASTAGNA CONSTRUCTION
COLUMBIA COUNTY, FLORIDA

DEAR SIR:

PLEASE BE ADVISED THAT YOU ARE AUTHORIZED TO CHANGE THE SOIL
BEARING PRESSURE NOTE FOR THE ABOVE REFERENCED PROJECT TO
INDICATE 1000 PSF DESIGN SOIL BEARING PRESSURE.

THANK YOU FOR YOUR ASSISTANCE IN THIS MATTER. SHOULD YOU HAVE ANY
QUESTION, PLEASE CALL FOR ASSISTANCE.

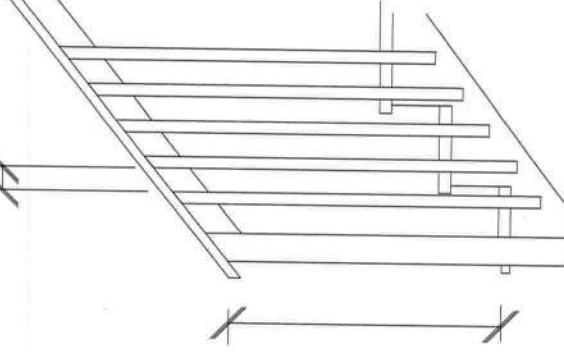
YOURS TRULY,
NICHOLAS PAUL GEISLER, ARCHITECT AR0007005



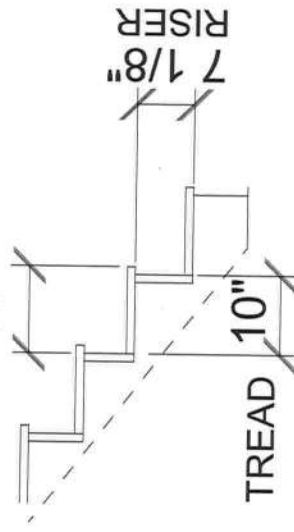
NOTE:
RAILINGS TO BE ATTACHED USING
SIMPSON FB24 AND FB26 INTO THE
SUPPORTING MEMBER USING 8D
COMMONS OR # 6 WOOD SCREWS TO
MEET FLORIDA BUILDING CODE.

34" - 36" PER FL. BUILD CODE

3" BETWEEN SPINDLES



11" TREAD & NOSE



STAIR DETAIL

FORM 600A-2001

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

Project Name: **DONALD HARRIS FAMILY**
Address: **1108 SW BLUFF DRIVE**
City, State: **FT WHITE, FL**
Owner: **HARRIS FAMILY**
Climate Zone: **North**

Builder: **PWH**
Permitting Office: **Columbia County**
Permit Number: **23048**
Jurisdiction Number: **221000**

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	3	—	b. N/A	—
5. Is this a worst case?	No	—	c. N/A	—
6. Conditioned floor area (ft ²)	1320 ft ²	—	13. Heating systems	—
7. Glass area & type	Single Pane	Double Pane	a. Electric Heat Pump	Cap: 30.0 kBtu/hr
a. Clear glass, default U-factor	0.0 ft ²	0.0 ft ²		HSPF: 6.80
b. Default tint	0.0 ft ²	0.0 ft ²	b. N/A	—
c. Labeled U or SHGC	0.0 ft ²	236.0 ft ²	c. N/A	—
8. Floor types			14. Hot water systems	—
a. Raised Wood, Post or Pier	R19	1320 ft ²	a. Electric Resistance	Cap: 50.0 gallons
b. N/A				EF: 0.90
c. N/A			b. N/A	—
9. Wall types			c. Conservation credits	—
a. Frame, Wood, Exterior	R=13.0, 1216.0 ft ²	—	(HR-Heat recovery, Solar	—
b. N/A			DHP-Dedicated heat pump)	—
c. N/A			15. HVAC credits	PT, —
d. N/A			(CF-Ceiling fan, CV-Cross ventilation,	—
e. N/A			HF-Whole house fan,	—
10. Ceiling types			PT-Programmable Thermostat,	—
a. Under Attic	R=30.0, 1320.0 ft ²	—	MZ-C-Multizone cooling,	—
b. N/A			MZ-H-Multizone heating)	—
c. N/A				—
11. Ducts				—
a. Sup: Unc. Ret: Con. AH: Interior	Sup. R=6.0, 150.0 ft	—		—
b. N/A				—

Glass/Floor Area: 0.18

Total as-built points: 22485

Total base points: 22767

PASS

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

PREPARED BY: FLO HENNERDATE: 12-9-04

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

OWNER/AGENT: PWH HomesDATE: 12/10/04

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: _____

FORM 600A-2001

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: 1108 SW BLUFF DRIVE, FT WHITE, FL,

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	1320.0	20.04	4761.5	Double,U=0.50,Clear	S	1.3	5.0	45.0	37.61	0.85	1431.0
				Double,U=0.50,Clear	S	8.0	5.0	30.0	37.61	0.47	526.6
				Double,U=0.50,Clear	N	1.3	5.0	75.0	21.12	0.93	1479.8
				Double,U=0.50,Clear	N	1.3	3.0	8.0	21.12	0.86	145.0
				Double,U=0.50,Clear	E	1.3	5.0	30.0	43.80	0.91	1189.9
				Double,U=0.50,Clear	W	8.0	6.7	40.0	40.31	0.48	780.0
				Double,U=0.50,Clear	W	8.0	3.0	8.0	40.31	0.38	122.0
				As-Built Total: 236.0 5674.3							
WALL TYPES Area X BSPM = Points				Type R-Value Area X SPM = Points							
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior				13.0	1216.0	1.50	1824.0
Exterior	1216.0	1.70	2067.2								
Base Total: 1216.0 2067.2				As-Built Total: 1216.0 1824.0							
DOOR TYPES Area X BSPM = Points				Type Area X SPM = Points							
Adjacent	0.0	0.00	0.0	Exterior Insulated				40.0	4.10		164.0
Exterior	40.0	6.10	244.0								
Base Total: 40.0 244.0				As-Built Total: 40.0 164.0							
CEILING TYPES Area X BSPM = Points				Type R-Value Area X SPM X SCM = Points							
Under Attic	1320.0	1.73	2283.6	Under Attic				30.0	1320.0	1.73 X 1.00	2283.6
Base Total: 1320.0 2283.6				As-Built Total: 1320.0 2283.6							
FLOOR TYPES Area X BSPM = Points				Type R-Value Area X SPM = Points							
Slab	0.0(p)	0.0	0.0	Raised Wood, Post or Pier				19.0	1320.0	0.77	1011.1
Raised	1320.0	-3.99	-5266.8								
Base Total: -5266.8				As-Built Total: 1320.0 1011.1							
INFILTRATION Area X BSPM = Points				Area X SPM = Points							
	1320.0	10.21	13477.2					1320.0	10.21		13477.2

FORM 600A-2001

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: 1108 SW BLUFF DRIVE, FT WHITE, FL,

PERMIT #:

BASE				AS-BUILT							
Summer Base Points: 17566.7				Summer As-Built Points: 24434.2							
Total Summer Points	X	System Multiplier	= Cooling Points	Total Component	X	Cap Ratio	X Duct Multiplier	X System Multiplier	X Credit Multiplier	= Cooling Points	
							(DM x DSM x AHU)				
17566.7		0.4266	7494.0	24434.2	1.000	1.000	(1.081 x 1.147 x 0.91)	0.341	0.950	8939.0	
				24434.2	1.00		1.128	0.341	0.950	8939.0	

FORM 600A-2001

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: 1108 SW BLUFF DRIVE, FT WHITE, FL,

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES											
.18 X Conditioned X BWPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt		Area X WPM X WOF = Points				
.18	1320.0	12.74	3027.0	Double, U=0.50, Clear	S	1.3	5.0	45.0	2.92	1.13	148.4
				Double, U=0.50, Clear	S	8.0	5.0	30.0	2.92	3.35	293.5
				Double, U=0.50, Clear	N	1.3	5.0	75.0	13.97	1.00	1050.2
				Double, U=0.50, Clear	N	1.3	3.0	8.0	13.97	1.01	112.7
				Double, U=0.50, Clear	E	1.3	5.0	30.0	8.35	1.04	260.1
				Double, U=0.50, Clear	W	8.0	6.7	40.0	10.15	1.19	482.4
				Double, U=0.50, Clear	W	8.0	3.0	8.0	10.15	1.24	100.5
				As-Built Total:				236.0	2447.8		
WALL TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior	13.0		1216.0	3.40	4134.4		
Exterior	1216.0	3.70	4499.2								
Base Total:				As-Built Total:		1216.0		4134.4			
DOOR TYPES Area X BWPM = Points				Type			Area X WPM = Points				
Adjacent	0.0	0.00	0.0	Exterior Insulated			40.0	8.40	336.0		
Exterior	40.0	12.30	492.0								
Base Total:				As-Built Total:		40.0		336.0			
CEILING TYPES Area X BWPM = Points				Type	R-Value		Area X WPM X WCM = Points				
Under Attic	1320.0	2.05	2706.0	Under Attic	30.0		1320.0	2.05 X 1.00	2706.0		
Base Total:				As-Built Total:		1320.0		2706.0			
FLOOR TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Slab	0.0(p)	0.0	0.0	Raised Wood, Post or Pier	19.0		1320.0	0.88	1156.3		
Raised	1320.0	0.96	1267.2								
Base Total:				As-Built Total:		1320.0		1156.3			
INFILTRATION Area X BWPM = Points						Area X WPM = Points					
						1320.0		-0.59	-778.8		

FORM 600A-2001

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: 1108 SW BLUFF DRIVE, FT WHITE, FL,

PERMIT #:

BASE				AS-BUILT						
Winter Base Points:		11212.6		Winter As-Built Points:			10001.8			
Total Winter Points	X	System Multiplier	= Heating Points	Total Component	X	Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points
11212.6		0.6274	7034.8	10001.8	1.000	(1.060 x 1.169 x 0.93)	0.501	0.950		5491.0
				10001.8	1.00	1.152	0.501	0.950		5491.0

FORM 600A-2001

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: 1108 SW BLUFF DRIVE, FT WHITE, FL,

PERMIT #:

BASE				AS-BUILT					
WATER HEATING									
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X	Tank X Ratio	Credit = Total Multiplier
3		2746.00	8238.0	50.0	0.90	3		1.00 2684.98	1.00 8054.9
				As-Built Total:					
				8054.9					

CODE COMPLIANCE STATUS							
BASE				AS-BUILT			
Cooling Points	+	Heating Points	+ Hot Water Points = Total Points	Cooling Points	+	Heating Points	+ Hot Water Points = Total Points
7494		7035	8238 22767	8939		5491	8055 22485

PASS

FORM 600A-2001

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: 1108 SW BLUFF DRIVE, FT WHITE, FL,

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.	<input checked="" type="checkbox"/>
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.	<input checked="" type="checkbox"/>
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.	<input checked="" type="checkbox"/>
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.	<input checked="" type="checkbox"/>
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.	<input checked="" type="checkbox"/>
Multi-story Houses	606.1.ABC.1.2.5	Air barrier on perimeter of floor cavity between floors.	<input checked="" type="checkbox"/>
Additional Infiltration reqts	606.1.ABC.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	<input checked="" type="checkbox"/>

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.	<input checked="" type="checkbox"/>
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%.	NA
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	<input checked="" type="checkbox"/>
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.	<input checked="" type="checkbox"/>
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	<input checked="" type="checkbox"/>
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.	<input checked="" type="checkbox"/>

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 82.9**The higher the score, the more efficient the home.****HARRIS FAMILY, 1108 SW BLUFF DRIVE, FT WHITE, FL,**

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	3	b. N/A	
5. Is this a worst case?	No	c. N/A	
6. Conditioned floor area (ft ²)	1320 ft ²		
7. Glass area & type	Single Pane Double Pane	13. Heating systems	
a. Clear - single pane	0.0 ft ² 0.0 ft ²	a. Electric Heat Pump	Cap: 30.0 kBtu/hr
b. Clear - double pane	0.0 ft ² 0.0 ft ²		HSPF: 6.80
c. Tint/other SHGC - single pane	0.0 ft ² 236.0 ft ²	b. N/A	
d. Tint/other SHGC - double pane		c. N/A	
8. Floor types		14. Hot water systems	
a. Raised Wood, Post or Pier	R=19.0, 1320.0 ft ²	a. Electric Resistance	Cap: 50.0 gallons
b. N/A			EF: 0.90
c. N/A		b. N/A	
9. Wall types		c. Conservation credits	
a. Frame, Wood, Exterior	R=13.0, 1216.0 ft ²	(HR-Heat recovery, Solar	
b. N/A		DHP-Dedicated heat pump)	
c. N/A		15. HVAC credits	
d. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
e. N/A		HF-Whole house fan,	
10. Ceiling types		PT-Programmable Thermostat,	
a. Under Attic	R=30.0, 1320.0 ft ²	MZ-C-Multizone cooling,	
b. N/A		MZ-H-Multizone heating)	
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Con. AH: Interior	Sup. R=6.0, 150.0 ft		
b. N/A			

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: [Signature]Date: 12/10/04Address of New Home: 1108 SW Bluff DrCity/FL Zip: FT WHITE FL 32036

*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 EnergyStarTM 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 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 v3.30)

Residential System Sizing Calculation

Summary

HARRIS FAMILY
1108 SW BLUFF DRIVE
FT WHITE, FL

Project Title:
DONALD HARRIS FAMILY

Code Only
Professional Version
Climate: North

12/10/2004

Location for weather data: Gainesville - User customized: Latitude(29) Temp Range(L)			
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(51gr.)			
Winter design temperature	31 F	Summer design temperature	93 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	39 F	Summer temperature difference	18 F
Total heating load calculation	20220 Btuh	Total cooling load calculation	27252 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	148.4 30000	Sensible (SHR = 0.7)	102.2 21000
Heat Pump + Auxiliary(0.0kW)	148.4 30000	Latent	134.1 9000
		Total (Electric Heat Pump)	110.1 30000

WINTER CALCULATIONS

Winter Heating Load (for 1320 sqft)

Load component	Load
Window total 236 sqft	4602 Btuh
Wall total 1216 sqft	3770 Btuh
Door total 40 sqft	733 Btuh
Ceiling total 1320 sqft	1716 Btuh
Floor total 1320 sqft	2508 Btuh
Infiltration 138 cfm	5928 Btuh
Subtotal	19257 Btuh
Duct loss	963 Btuh
TOTAL HEAT LOSS	20220 Btuh

SUMMER CALCULATIONS

Summer Cooling Load (for 1320 sqft)

Load component	Load
Window total 236 sqft	5906 Btuh
Wall total 1216 sqft	2481 Btuh
Door total 40 sqft	482 Btuh
Ceiling total 1320 sqft	2006 Btuh
Floor total	1082 Btuh
Infiltration 127 cfm	2518 Btuh
Internal gain	4200 Btuh
Subtotal(sensible)	18675 Btuh
Duct gain	1867 Btuh
Total sensible gain	20542 Btuh
Latent gain(infiltration)	4410 Btuh
Latent gain(internal)	2300 Btuh
Total latent gain	6710 Btuh
TOTAL HEAT GAIN	27252 Btuh

EnergyGauge® System Sizing based on ACCA Manual J.

PREPARED BY: *J. L. Hansen*DATE: *12-9-04*

EnergyGauge® FLRCPB v3.30

System Sizing Calculations - Winter

Residential Load - Component Details

HARRIS FAMILY
1108 SW BLUFF DRIVE
FT WHITE, FL

Project Title:
DONALD HARRIS FAMILY

Code Only
Professional Version
Climate: North

Reference City: Gainesville (User customized) Winter Temperature Difference: 39.0 F

12/10/2004

Window	Panes/SHGC/Frame/U	Orientation	Area X	HTM=	Load
1	2, Clear, Metal, 0.50	S	45.0	19.5	878 Btuh
2	2, Clear, Metal, 0.50	S	30.0	19.5	585 Btuh
3	2, Clear, Metal, 0.50	N	75.0	19.5	1462 Btuh
4	2, Clear, Metal, 0.50	N	8.0	19.5	156 Btuh
5	2, Clear, Metal, 0.50	E	30.0	19.5	585 Btuh
6	2, Clear, Metal, 0.50	W	40.0	19.5	780 Btuh
7	2, Clear, Metal, 0.50	W	8.0	19.5	156 Btuh
Window Total			236		4602 Btuh
Walls 1	Type	R-Value	Area X	HTM=	Load
	Frame - Exterior	13.0	1216	3.1	3770 Btuh
Wall Total			1216		3770 Btuh
Doors 1	Type		Area X	HTM=	Load
	Insulated - Exter		40	18.3	733 Btuh
Door Total			40		733 Btuh
Ceilings 1	Type	R-Value	Area X	HTM=	Load
	Under Attic	30.0	1320	1.3	1716 Btuh
Ceiling Total			1320		1716 Btuh
Floors 1	Type	R-Value	Size X	HTM=	Load
	Raised Wood/Open	19	1320.0 sqft	1.9	2508 Btuh
Floor Total			1320		2508 Btuh
Infiltration	Type	ACH X	Building Volume	CFM=	Load
	Natural	0.40	13200(sqft)	88	3783 Btuh
	Mechanical			50	2145 Btuh
	Infiltration Total			138	5928 Btuh

Totals for Heating	Subtotal	19257 Btuh
	Duct Loss(using duct multiplier of 0.05)	963 Btuh
	Total Btuh Loss	20220 Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)

(Frame types - metal, wood or insulated metal)

(U - Window U-Factor or 'DEF' for default)

(HTM - Manual J Heat Transfer Multiplier)

Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)

System Sizing Calculations - Summer

Residential Load - Component Details

HARRIS FAMILY
1108 SW BLUFF DRIVE
FT WHITE, FL

Project Title:
DONALD HARRIS FAMILY

Code Only
Professional Version
Climate: North

Reference City: Gainesville (User customized) Summer Temperature Difference: 18.0 F 12/10/2004

Window	Type	Overhang	Window Area(sqft)			HTM		Load		
	Panes/SHGC/U/InSh/ExSh Omt		Len	Hgt	Gross	Shaded	Unshaded		Shaded	Unshaded
1	2, Clear, 0.50, N, N	S	1.3	5	45.0	45.0	0.0	20	35	900 Btuh
2	2, Clear, 0.50, N, N	S	8	5	30.0	30.0	0.0	20	35	600 Btuh
3	2, Clear, 0.50, N, N	N	1.3	5	75.0	0.0	75.0	20	20	1500 Btuh
4	2, Clear, 0.50, N, N	N	1.3	3	8.0	0.0	8.0	20	20	160 Btuh
5	2, Clear, 0.50, N, N	E	1.3	5	30.0	6.5	23.5	20	70	1776 Btuh
6	2, Clear, 0.50, N, N	W	8	6.67	40.0	39.8	0.2	20	70	809 Btuh
7	2, Clear, 0.50, N, N	W	8	3	8.0	8.0	0.0	20	70	160 Btuh
Window Total			236							5906 Btuh
Walls 1	Type	R-Value		Area		HTM		Load		
	Frame - Exterior	13.0		1216.0		2.0		2481 Btuh		
Wall Total					1216.0				2481 Btuh	
Doors 1	Type	R-Value		Area		HTM		Load		
	Insulated - Exter			40.0		12.0		482 Btuh		
Door Total					40.0				482 Btuh	
Ceilings 1	Type/Color	R-Value		Area		HTM		Load		
	Under Attic/Dark	30.0		1320.0		1.5		2006 Btuh		
Ceiling Total					1320.0				2006 Btuh	
Floors 1	Type	R-Value		Size		HTM		Load		
	Raised Wood	19.0		1320.0 sqft		0.8		1082.4 Btuh		
Floor Total					1320.0				1082 Btuh	
Infiltration	Type	ACH		Volume		CFM=		Load		
	Natural	0.35		13200		77.2		1528 Btuh		
	Mechanical					50		990 Btuh		
Infiltration Total							127		2518 Btuh	

Internal gain	Occupants	Btuh/occupant	Appliance	Load
	10	X 300 +	1200	4200 Btuh

Totals for Cooling	Subtotal	18675 Btuh
	Duct gain(using duct multiplier of 0.10)	1867 Btuh
	Total sensible gain	20542 Btuh
	Latent infiltration gain (for 51 gr. humidity difference)	4410 Btuh
	Latent occupant gain (10 people @ 230 Btuh per person)	2300 Btuh
	Latent other gain	0 Btuh
	TOTAL GAIN	27252 Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(U - Window U-Factor or 'DEF' for default)
(InSh - Interior shading device: none(N), Blinds/Daperies(B) or Roller Shades(R))
(ExSh - Exterior shading device: none(N) or numerical value)
(Omt - compass orientation)

Energy Gauge® FLRCPB v3.30

Columbia County Building Department
Flood Development Permit

Development Permit
F 023- 05-007

DATE 04/20/2005 BUILDING PERMIT NUMBER 000023048
APPLICANT EBE WALTER PHONE 229-225-1730
ADDRESS 679 BLACKSHEAR RD THOMASVILLE GA 31792
OWNER DONALD HARRIS PHONE 752-7669
ADDRESS 1108 SW BLUFF DR FORT WHITE FL 32038
CONTRACTOR EBE WALTER/PENNYWORTH HOMES PHONE 229-225-1730
ADDRESS _____ FL _____
SUBDIVISION CEDAR SPRINGS SHORES Lot 13 Block _____ Unit _____ Phase _____
TYPE OF DEVELOPMENT SFD,UTILITY PARCEL ID NO. 18-7S-16-04236-049

FLOOD ZONE AE BY BK 1-6-88 FIRM COMMUNITY #. 120070 - PANEL #. 255 B
FIRM 100 YEAR ELEVATION 36 PLAN INCLUDED YES or NO
REQUIRED LOWEST HABITABLE FLOOR ELEVATION 37
IN THE REGULATORY FLOODWAY YES or NO RIVER Santa Fe
SURVEYOR / ENGINEER NAME Curt's Keen LICENSE NUMBER 23836

ONE FOOT RISE CERTIFICATION INCLUDED
✓ ZERO RISE CERTIFICATION INCLUDED
SRWMD PERMIT NUMBER _____
(INCLUDING THE ONE FOOT RISE CERTIFICATION)
DATE THE FINISHED FLOOR ELEVATION CERTIFICATE WAS PROVIDED _____

INSPECTED DATE _____ BY _____
COMMENTS _____

135 NE Hernando Ave., Suite B-21
Lake City, Florida 32055
Phone: 386-758-1008
Fax: 386-758-2160



PERMIT EXPIRES ONE YEAR FROM THE DATE OF ISSUANCE

HEC-2 WATER SURFACE PROFILES

Version 4.6.2; May 1991

T1	SANTA FE RIVER							
T2	THROUGH ALACHUA COUNTY							
T3	100-YR DISCHARGE		HARRIS		EXISTING		INTERPOLATED	
J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q
	0	2	0	0	0	0	0	0
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW
	1	0	-1	0	0	0	0	0
J3	VARIABLE CODES FOR SUMMARY PRINTOUT							
	110	200						
NC	.28	.28	.045	0.1	0.3			
QT	4	8457	13409	16359	22200			
X1	11.30	28	12080.0	12345.0	5900.	4400.		6550.
GR	40.0	10000.0	35.90	10116.0	31.30	10270.0		35.80
GR	40.5	10755.0	34.90	10968.0	28.70	11118.0		22.90
GR	20.0	11856.0	18.20	11938.0	14.20	12080.0		10.60
GR	7.0	12250.0	9.90	12300.0	14.20	12345.0		20.20
GR	19.5	12548.0	17.30	12597.0	16.20	12861.0		17.00
GR	30.2	13173.0	40.00	13249.0	41.70	13294.0		
X1	13.03	31	12920.0	13085.0	6100.	5400.		9130.
GR	40.0	10000.0	38.40	10118.0	39.00	10251.0		39.30
GR	34.0	10479.0	31.50	10562.0	29.90	10858.0		29.50
GR	27.4	11746.0	26.80	11961.0	32.30	12415.0		30.40
GR	19.7	12868.0	13.30	12920.0	8.50	12950.0		-5.45
GR	13.3	13085.0	16.60	13185.0	16.90	13381.0		19.10
GR	20.0	13810.0	22.20	13901.0	22.80	14050.0		24.20
GR	40.0	14369.0						
X1	14.08	38	12443.0	12650.0	4700.	5500.		5540.
GR	40.0	10000.0	37.90	10089.0	35.70	10283.0		32.30
GR	33.9	10770.0	34.00	11030.0	30.00	11183.0		26.00
GR	20.5	11508.0	20.70	11699.0	21.50	11981.0		23.10
GR	20.4	12443.0	16.00	12471.0	12.80	12500.0		10.60
GR	13.7	12600.0	16.00	12624.0	19.70	12650.0		23.60
GR	16.6	12838.0	23.60	12878.0	24.60	12930.0		24.20
GR	33.4	13172.0	34.50	13298.0	36.40	13507.0		36.60
GR	37.0	13612.0	39.20	13835.0	40.00	13910.0		

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X1	14.32	30	12365.0	12581.0	3572	4180	4210
GR	39.9	10000.0	35.1	10272.0	32.2	10470.0	30.8
GR	31.7	11032.0	29.0	11182.0	25.5	11384.0	22.4
GR	21.5	11683.0	22.4	11932.0	23.1	12036.0	23.0
GR	21.5	12365.0	16.3	12393.0	12.2	12428.0	9.6
GR	17.0	12529.0	16.5	12551.0	20.9	12581.0	24.6
GR	27.3	12842.0	28.1	12901.0	28.0	12968.0	33.1
X1	15.08	31	12118.0	12361.0	5700.	4000.	5280.
GR	39.5	10000.0	33.30	10238.0	31.80	10462.0	27.40
GR	26.4	10883.0	26.80	10963.0	26.30	10976.0	26.30
GR	26.0	11178.0	23.90	11416.0	24.10	11547.0	21.40
GR	25.3	11777.0	23.30	11863.0	22.70	12004.0	24.80
GR	10.2	12200.0	6.52	12250.0	10.82	12280.0	17.10
GR	24.5	12361.0	27.60	12489.0	38.10	12702.0	38.90
GR	40.0	12915.0					
X1	15.66	92	15145.0	15361.0	3400.	2500.	3060.
GR	40.0	10000.0	39.60	10065.0	39.50	10193.0	37.50
GR	39.3	10232.0	38.90	10243.0	37.30	10253.0	39.30
GR	39.7	10432.0	39.90	10490.0	39.90	10524.0	39.70
GR	37.1	10755.0	36.30	10844.0	35.50	10987.0	34.80
GR	31.3	11296.0	32.60	11395.0	34.00	11468.0	36.60
GR	39.0	11769.0	38.50	11832.0	38.00	11914.0	38.00
GR	38.9	12291.0	39.20	12353.0	38.40	12453.0	36.30
GR	30.3	12760.0	30.30	12848.0	30.20	12903.0	31.60
GR	32.8	13172.0	32.10	13264.0	30.70	13337.0	29.60
GR	28.1	13667.0	28.10	13773.0	28.40	13868.0	30.00
GR	31.7	14124.0	32.50	14224.0	29.60	14358.0	28.60
GR	27.0	14624.0	27.50	14663.0	28.20	14701.0	25.70
GR	26.5	14934.0	27.20	14999.0	26.60	15071.0	25.20
GR	13.2	15200.0	10.22	15250.0	13.52	15300.0	17.30
GR	17.9	15467.0	20.20	15513.0	25.20	15629.0	25.20
GR	29.0	16293.0	32.30	16439.0	35.10	16623.0	39.20
GR	40.3	16904.0	37.10	16927.0	37.10	16955.0	35.80
GR	36.5	16998.0	37.90	17053.0	39.00	17121.0	38.10
GR	40.2	17179.0	41.30	17212.0			
NC				0.3	0.5		
QT	4	9192	13791	16717	22200		
X1	15.70	63	14820.0	15140.0	200.0	200.0	200.0
BT	8	14820.	38.3	38.3	14823	39.15	37.5
BT	14992	40.1	38.4	15052.	40.1	38.4	15066
BT	39.11	37.44	15140.	38.10	38.10		
GR	40.0	10000.0	39.00	10190.0	38.00	10363.0	36.40
GR	34.8	10877.0	34.60	11024.0	34.70	11210.0	34.70
GR	36.1	11635.0	37.50	11824.0	37.90	12029.0	37.90
GR	37.2	12351.0	36.50	12494.0	35.50	12645.0	35.00
GR	34.4	13056.0	34.20	13161.0	34.30	13256.0	33.90
GR	33.9	13649.0	33.90	13750.0	34.00	13926.0	34.20
GR	34.4	14423.0	35.90	14522.0	37.60	14678.0	38.30
GR	20.1	14843.0	9.50	14924.0	37.50	14924.0	37.50
GR	9.4	14937.0	10.20	14987.0	13.90	14992.0	38.40

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GR	13.9	14996.0	18.40	15052.0	21.40	15060.0	37.44
GR	21.4	15066.0	37.44	15135.0	38.10	15140.0	37.00
GR	34.0	15754.0	33.80	15920.0	34.20	16103.0	35.10
GR	37.5	16573.0	38.90	16736.0	40.00	16882.0	
X1	15.71	63	14820.0	15140.0	25.0	25.0	25.0
BT	8	14820.	38.3	38.3	14823	39.15	37.5
BT	14992	40.1	38.4	15052.	40.1	38.4	15066
BT	39.11	37.44	15140.	38.10	38.10		
GR	40.0	10000.0	39.00	10190.0	38.00	10363.0	36.40
GR	34.8	10877.0	34.60	11024.0	34.70	11210.0	34.70
GR	36.1	11635.0	37.50	11824.0	37.90	12029.0	37.90
GR	37.2	12351.0	36.50	12494.0	35.50	12645.0	35.00
GR	34.4	13056.0	34.20	13161.0	34.30	13256.0	33.90
GR	33.9	13649.0	33.90	13750.0	34.00	13926.0	34.20
GR	34.4	14423.0	35.90	14522.0	37.60	14678.0	38.30
GR	20.1	14843.0	9.50	14924.0	37.50	14924.0	37.50
GR	9.4	14937.0	10.20	14987.0	13.90	14992.0	38.40
GR	13.9	14996.0	18.40	15052.0	21.40	15060.0	37.44
GR	21.4	15066.0	37.44	15135.0	38.10	15140.0	37.00
GR	34.0	15754.0	33.80	15920.0	34.20	16103.0	35.10
GR	37.5	16573.0	38.90	16736.0	40.00	16882.0	

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR

*PROF 1

CCHV= .100 CEHV= .300
*SECNO 11.300

3265 DIVIDED FLOW

11.300	28.00	35.00	.00	35.00	35.01	.01	.00
8457.0	1055.3	5966.5	1435.3	12574.8	6824.8	13661.9	.0
.00	.08	.87	.11	.280	.045	.280	.000
.000009	5900.	6550.	4400.	0	0	0	.00

*SECNO 13.030

13.030	40.53	35.08	.00	.00	35.09	.01	.09
8457.0	1147.0	5115.1	2194.9	15698.9	4749.5	18588.8	5191.6
3.19	.07	1.08	.12	.280	.045	.280	.000
.000013	6100.	9130.	5400.	1	0	0	.00

*SECNO 14.080

14.080	24.67	35.17	.00	.00	35.19	.02	.09
8457.0	2233.2	5508.4	715.4	16934.2	4381.7	5414.0	9048.1
4.91	.13	1.26	.13	.280	.045	.280	.000
.000025	4700.	5540.	5500.	2	0	0	.00

*SECNO 14.320
3280 CROSS SECTION 14.32 EXTENDED .28 FEET

14.320	25.68	35.28	.00	.00	35.29	.02	.10
8457.0	2222.0	5769.6	465.4	17134.6	4509.4	3959.7	11324.4
6.14	.13	1.28	.12	.280	.045	.280	.000
.000026	3572.	4210.	4180.	2	0	0	.00

*SECNO 15.080

15.080	28.89	35.41	.00	.00	35.43	.02	.13
8457.0	2097.1	6183.1	176.8	17484.6	5100.2	1814.8	14437.0
7.75	.12	1.21	.10	.280	.045	.280	.000
.000024	5700.	5280.	4000.	0	0	0	.00

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EB#3761

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR

*SECNO 15.660

3265 DIVIDED FLOW

15.660	25.26	35.48	.00	.00	35.50	.02	.07
8457.0	1435.1	5658.5	1363.3	16380.8	4671.0	11112.5	16472.8
8.76	.09	1.21	.12	.280	.045	.280	.000
.000022	3400.	3060.	2500.	0	0	0	.00

CCHV= .300 CEHV= .500
*SECNO 15.700

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .50

3370 NORMAL BRIDGE, NRD= 8 MIN ELTRD= 38.10 MAX ELLC= 38.40

15.700	26.07	35.47	.00	.00	35.52	.05	.01
9192.0	175.7	8946.2	70.1	2883.3	5055.0	1082.8	16567.3
8.80	.06	1.77	.06	.280	.045	.280	.000
.000104	200.	200.	200.	1	0	0	.00

*SECNO 15.710

3265 DIVIDED FLOW

3370 NORMAL BRIDGE, NRD= 8 MIN ELTRD= 38.10 MAX ELLC= 38.40

15.710	26.08	35.48	.00	.00	35.52	.05	.00
9192.0	174.7	8947.6	69.7	2871.2	5053.7	1078.7	16572.5
8.80	.06	1.77	.06	.280	.045	.280	.000
.000105	25.	25.	25.	0	0	0	.00

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SUMMARY PRINTOUT TABLE 110

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB
	11.300	35.00	.00	35.01	2503.92	1055.25	5966.48	1435.
	13.030	35.08	.00	35.09	3885.66	1147.01	5115.13	2194.
	14.080	35.17	.00	35.19	3059.64	2233.24	5508.36	715.
	14.320	35.28	.00	35.29	2847.92	2221.98	5769.63	465.
	15.080	35.41	.00	35.43	2490.04	2097.10	6183.15	176.
	15.660	35.48	.00	35.50	4604.22	1435.13	5658.54	1363.
*	15.700	35.47	.00	35.52	3948.01	175.67	8946.23	70.
	15.710	35.48	.00	35.52	3944.45	174.66	8947.60	69.

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23048



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

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

JOB NO.: 05-072
DATE TESTED: 04/20/05
DATE REPORTED: 04/22/05

REPORT OF IN-PLACE DENSITY TEST

PROJECT:	Proposed Donald Hunt Residence, Unit 5, Lot 13, Cedar Spgs Shores, Ft White, FL
CLIENT:	Pennyworth Homes, 679 Blackshear Rd, Thomasville, GA 31792, attn: Elaine Tomlinson
GENERAL CONTRACTOR:	Pennyworth Homes
EARTHWORK CONTRACTOR:	Richardson Site Prep
INSPECTOR:	C. Allen
ASTM METHOD (D-2922) Nuclear	
SOIL USE BUILDING FILL	
SPECIFICATION REQUIREMENTS: 95%	

TEST NO.	TEST LOCATION	TEST DEPTH	WET DENSITY (lb/ft ³)	MOISTURE PERCENT	DRY DENSITY (lb/ft ³)	PROCTOR TEST NO.	PROCTOR VALUE	% MAXIMUM DENSITY
PAD								
1	15' SW from NE Corner	0-12"	106.1	3.2	102.8	U. E.	105.8	97.2%
2	24' SE from NW Corner	0-12"	106.8	3.3	103.4	U. E.	105.8	97.7%
3	30' NE from SW Corner	0-12"	105.3	2.8	102.4	U. E.	105.8	96.8%

REMARKS: The Above Tests Meet Specification Requirements.

PROCTORS				
PROCTOR NO.	SOIL DESCRIPTION	MAXIMUM DRY UNIT WEIGHT (lb/ft ³)	OPT. MOIST.	TYPE
U. E.	Light Tan Sand (Universal Engineering)	105.8	11.3	MODIFIED (ASTM D-1557)

Respectfully Submitted,
CAL-TECH TESTING, INC.
Linda M. Creamer

Linda M. Creamer
President - CEO

Reviewed By:
John D. ...

Date: 4/22/05
Florida Registration No: 52612

The test results presented in this report are specific only to the samples tested at the time of testing. The tests were performed in accordance with generally accepted methods and standards. Since material conditions can vary between test locations and change with time, sound judgement should be exercised with regard to the use and interpretation of the data.

"Excellence in Engineering & Geoscience"

Columbia County Building Permit Application

Revised 9-23-0

For Office Use Only Application # D501-47 Date Received 1/19/05 By G Permit # 23048
 Application Approved by - Zoning Official BLK Date 14.04.05 Plans Examiner OK JTH Date 4-20-05
 Flood Zone AE Development Permit YES Zoning ESA-2 Land Use Plan Map Category ESA
 Comments 0 rise letter included > Development Permit # 05-007
MAP # 0255B ELEVATION 36' FINISH FLOOR 37' RIVER SAND FC IN FLOODWAY YES

Applicants Name Phillip Pomeroy Phone 229-225-1730 (201)
 Address 1001 SW CANNON CREEK DR, LAKE CITY FL 32034
 Owners Name same Phone _____
 911 Address 1108 SW BLUFF DR, FORT WHITE FL 32038
 Contractors Name Pennylworth Homes Inc. Phone 229-225-1730 (201)
 Address 679 BLAVERNE RD, THOMASVILLE GA 31792
 Fee Simple Owner Name & Address _____
 Bonding Co. Name & Address _____
 Architect/Engineer Name & Address Lambert Unlimited P.O. Box 12267 Savannahville FL 32209
 Mortgage Lenders Name & Address FINDY MAC BANK, 290 Technology Parkway Suite 100
Norcross, GA 30092
 Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Energy
 Property ID Number 18-78-16-04236-049 Estimated Cost of Construction \$176,491
 Subdivision Name CEDAR SPRINGS SHORE Lot 13 Block N/A Unit 5 Phase -
 Driving Directions 295 N to E-10 W 32 miles to exit 324 (SA90/CANNON CREEK EXIT) Go left on SR
90 W 20.4 miles, TURN LEFT ON SR41 SOUTH GO 1.4 miles to SR 47 SOUTH GO 21.5
miles thru FORT WHITE. TURN RIGHT ON HOLLINGSWORTH RD. GO 4 miles to SW BLUFF DR.
7th on @ from SW Burgundy Ln.
 Type of Construction NEW CONSTRUCTION OF HOME Number of Existing Dwellings on Property 0
 Total Acreage 1.6 Lot Size _____ Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Driv
 Actual Distance of Structure from Property Lines - Front 388' Side 26' Side 28' Rear 495 FT
 Total Building Height 23 FT Number of Stories 1 Heated Floor Area 1320 sq ft Roof Pitch 6/12

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.

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

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

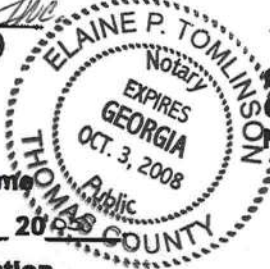
Phillip Pomeroy
 Owner Builder or Agent (Including Contractor)

STATE OF FLORIDA Georgia
 COUNTY OF COLUMBIA Thomas

Sworn to (or affirmed) and subscribed before me

this 12th day of January

Personally known ✓ or Produced Identification _____



Contractor Signature

Contractors License Number CAC058427

Competency Card Number 1541536

NOTARY STAMP/SEAL

Elaine P. Tomlinson

Notary Signature

Return to address and address recipient on (if any)

Donat W. Harris
1001 S.W. Cannon Creek Drive
Lake City, FL 32024

This instrument prepared by:

Donat W. Harris
1108 S.W. Bluff Dr
Ft. White, FL 32038

Property Address: Public Records

Document # 11

Inat: 2004022150 Date: 10/01/2004 Time: 13:03

Doc Stamp: 0.70

PC, P. DeWitt Case, Columbia County, FL 32026 P: 2767

U.S.

SPACE ABOVE THIS LINE FOR PROCESSING DATA

SPACE ABOVE THIS LINE FOR RECORD NUMBER DATA

This Quit Claim Deed, Executed the 1st day of October 2004, by Donat W. Harris

First party, Donat W. Harris
whose post office address is 1001 S.W. Cannon Creek Drive, Lake City, Florida 32024

Second party, _____

(Wherever used herein the words "first party" and "second party" include all persons and the heirs, assigns and legal representatives of the parties of the instrument and the heirs, assigns and legal representatives of the parties of the instrument.)

Witnesseth, That the first party, for and in consideration of the sum of \$ 0 in hand paid by the said second party, the receipt whereof is hereby acknowledged, does hereby release, release, and quit claim unto the second party forever, all the right, title, interest, claim and demand which the said first party has in and to the following described lot, place or parcel of land, situate, lying and being in the County of Columbia State of Florida

1108 S.W. Bluff Drive, Ft. White, Florida 32038
12-75-16 0000 / 0000
Lot 13 Unit 5 Cedar Sp. ng
Shore. C.B. 1142-360, 571-719,
675-975

We Have and to Hold the same together with all and singular the appurtenances thereto belonging or in anywise appertaining, and all the estate, right, title, interest, claim and demand whatsoever of the said first party, either in law or equity to the only proper use, benefit and behoof of the said second party forever.

In Witness Whereof, the said first party has signed and sealed these presents the day and year first above written.

Signed, sealed and delivered in the presence of:

Michelle L. Harwell
Michelle L. Harwell
MARIA BONASIO
MARIA BONASIO

Donat W. Harris
Donat W. Harris
1108 S.W. Bluff Dr., Ft. White, FL 32038
Post Office Address

Witness Signature (not to be signed, if any)
Witness Name
Witness Signature (not to be signed, if any)

Co-Owner Signature (if any)
Witness Name
Witness Address

Witness Name
STATE OF Florida
COUNTY OF Columbia
Donat W. Harris

I hereby certify that on this day, before me, a notary duly authorized to administer oaths and take acknowledgments, personally appeared

known to me to be the person described in and who executed the foregoing instrument, who acknowledged before me that he executed the same, and in each case not taken. (Check one) ☐ Said person(s) is/are personally known to me. ☐ Said person(s) provided the following type of identification: NAVY RESERVE ID # 553-24-9277 Exp. 2006-11-30



Witness my hand and official seal in the County and State last aforesaid this 1st day of October 2004
Donat W. Harris
Notary Public
Donat W. Harris

904-321-2773

309 11574

RESTRICTIVE AND PROTECTIVE COVENANTS OFFICIAL RECORDS

KNOW ALL MEN BY THESE PRESENTS, that the owners of that certain property situated within Columbia County, Florida, more particularly described as follows:

Lot 1 in Section 18; Lot 7 in Section 18; that part of Lot 3 in Section 10 lying West of State Road 47; all lying and being in Township 7 South, Range 16 East, in Columbia County, Florida.

are desirous of placing restrictions on the use of said property:

NOW, THEREFORE, KNOW ALL MEN BY THESE PRESENTS: That the parties to this agreement for and in consideration of the mutual covenants herein contained and the execution of this agreement, and in further consideration of \$1.00 in hand paid to each of the parties to this agreement and for other good and valuable considerations do herein and hereby covenant and agree one with the other, for themselves, their heirs, legal representatives and assigns the following restrictions are hereby placed upon said property above described and upon the respective holdings of the undersigned as come within the boundaries of the above described property:

1. These restrictions apply to all of the herein described property and all subdivisions thereof.
2. These covenants are to run with the land and shall be binding on all parties and all parties and all persons claiming under them until January 1, 2000, at which time said covenants shall be automatically extended for successive periods of 10 years unless by vote of the majority of the then owners of the lots it is agreed to change said covenants in whole or in part.
3. If the parties hereto, or any of them or their successors or assigns shall violate or attempt to violate any of the covenants herein, it shall be lawful for any other person or persons owning any real property situated in said development or subdivision to prosecute and proceedings at law or in equity against the person or persons violating or attempting to violate any such covenant and either to prevent him or them from so doing or to recover damages or other dues for said violation.
4. Invalidity of any one of these covenants by judgment or court order shall in no way affect any of the other provisions which shall remain in full force and effect.
5. For the purpose of further insuring the development of the lands in the subdivision as a residential area of high standards the subdividers reserve the right to approve the building plans and specifications and plot plans showing the location of all improvements, and said approval shall be in writing by the subdividers. If, in the event the subdividers or their agent shall fail to approve or disapprove said plans and specifications as shall have been submitted within thirty (30) days of submission, such approval will not be required and this covenant will be deemed to have been fully complied with.
6. All building sites shall be used solely and only for residential purposes, and no structures, permanent or temporary, shall be erected, altered, placed, or permitted to remain on any lot other than one detached, single-family dwelling, which may include mobile homes permanently attached to the property. Accessory buildings, such as private garages or storage buildings, cabanas, servants rooms or guest rooms, boat houses and docks, may be erected on the premises for use only in connection with and to serve the single-family dwelling, but must be approved by the subdividers as hereinafter provided. Such outbuildings shall be limited to a total number of two, not including boat houses or docks.

JUN 1 1975
OFFICIAL RECORDS

7. No main dwelling shall be erected nearer than twenty-five (25) feet of the front, twenty-five (25) feet of the rear, and ten (10) feet of the side lines of any building plot which may be sold hereunder. No other building shall be erected nearer than twenty-five (25) feet of the front lot line nor nearer than ten (10) feet of the side lot line. Water front lots as per County and State regulations.
8. Easements and rights of way are hereby expressly reserved for the creation, construction, and maintenance of utilities, such as gas, water, telephone, telegraph, electricity, sewers, storm drains and canal drains, public quasi-public and private, as well as for any public, private or quasi-public utility or function deemed necessary and/or expedient by the Seller for the public health and welfare. Such easements and rights of way shall be confined to the front or rear eight (8) feet of every lot, and every street of the subdivision. The Seller hereby reserves exclusive right to dedicate the roads, streets and avenues abutting the aforesaid property to public use without the consent of the Buyer.
9. No permanent dwelling shall be permitted which has a ground floor area exclusive of open porches or garages of less than 500 square feet. All construction shall be of new materials, and must be completed within six months. No mobile home used as a permanent residence shall be permitted which has a living area exclusive of open porches or garages of less than 500 feet and shall be of good quality and construction.
10. No fence or hedge shall be erected or maintained on the property of this subdivision which shall unreasonably restrict or block the view from an adjoining lot or which shall materially impair the continuity of the general landscaping plan of the subdivision. For this purpose, a hedge or fence should, if possible, be maintained at no greater height than four (4) feet.
11. No sign of any kind shall be exhibited in any way on or above the property of this subdivision without written approval of the Seller or its duly authorized agent. Buyer agrees to plant (2) trees for each tree removed.
12. Only one dwelling shall be built upon any one of the numbered lots as shown by the recorded plat.
13. Trash, junk, garbage and abandoned automobiles shall be removed from any lot at the expense of the owner, if such is not removed by the owner within thirty (30) days of receipt of written notice from the subdividers, mailed to owner by certified or registered mail.
14. Travel trailers, campers, motor homes and tents shall not be permitted to remain on any lot permanently, but may be used temporarily on weekends or a maximum of four (4) months each year.
15. No husbandry of either animals or fowls shall be conducted or maintained on the property of this subdivision. Provided however, that pets (ducks, horses, cats and dogs) only be allowed.
16. Trees having a diameter of four (4) inches or larger, one foot above ground level may not be cut without prior written consent of subdividers unless such trees are diseased, a danger to any structure located on the lot, or need to be removed for the initial construction of structured improvements upon a lot. No hunting shall be permitted upon any lot within the subdivision.
17. No trade or business, nor any noxious or offensive activity shall be carried on upon the herein described lots, nor shall anything be done thereon which may be or may become an annoyance or nuisance to the owners of said property.
18. The herein described lots shall not be, in any manner, divided or subdivided.

19. The laws of the State of Florida and County of Columbia as well as the rules and regulations of their administrative agencies and officials now or hereafter in effect with regard to sewage disposal, water supply and sanitation are hereby incorporated herein and made a part hereof, and any State or County official having the administrative duty to inspect the property of the subdivision shall have the license to enter upon the property of the subdivision from time to time to make any such inspection.

20. Individual lot surveys will be at purchaser's expense.

21. The foregoing covenants, restrictions and conditions constitute an easement and servitude in and upon the lands herein described, running with the land, and shall be for the benefit of all of the lands in the subdivision.

IN WITNESS WHEREOF, the parties have hereunto set their hands and seal this 6th day of September, 1973.

Signed, sealed and delivered
in our presence as witnesses.

Charles I. Walker

Sharon I. Mathews

Charles I. Walker

Sharon I. Mathews

Charles I. Walker

Sharon I. Mathews

James A. Lewis (SEA)

Jacqueline Lewis (SEA)

Wesley I. Lewis (SEA)

Elsa Lewis (SEA)

T. Grady Alday, Jr. (SEA)

Martha S. Alday (SEA)

STATE OF FLORIDA
COUNTY OF ALACHUA

Personally came before me James A. Lewis and his wife Jacqueline Lewis, Wesley I. Lewis and his wife Elsa Lewis, T. Grady Alday, Jr. and his wife Martha S. Alday, who being to me well known and known by me to be the individuals described in and who executed the above and foregoing Restrictive and Protective Covenants, acknowledged before me that they signed, sealed and delivered the same at the time and place, in the manner, and for the uses and purposes as therein set forth and contained.

WITNESS my hand and official seal on this 6th day of September, A.D. 1973.

NOTARY PUBLIC, STATE OF FLORIDA
My Commission Expires 12/31/74
BONDED BY AMERICAN FIDELITY & GUARANTY CO.

60:10:14 01:35:16



January 19, 2005

Columbia County Building Department
P O Drawer 1529
Lake City, FL 32056

To Whom It May Concern:

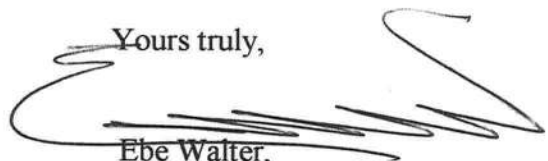
Please revise previous authorization list with the following authorized list of employees with Pennyworth Homes under Florida Contractor's license number CRC 058477 to apply for and pick up permits.

The list is as follows:

Ebe Walter, President
Philip Pomeroy, VP Sales
Jason Bishop, Permitting Coordinator
Ralph Griffith, Construction Coordinator
Buster Brown, Construction Manager
Steve Johnson, Construction Manager
Dwayne Harrington, Construction Manager
Jim McKnight, Home Consultant
Chip Miller, Home Consultant
Wanda Chasez, Home Consultant
Rich Obszarski, Home Consultant

If you have any questions please do not hesitate to contact me at 229-225-1730 ext 203.

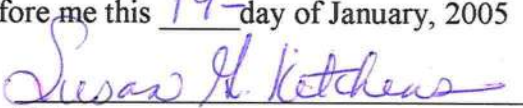
Yours truly,



Ebe Walter,
General Contractor/President

State of Florida
County of Leon

The foregoing instrument was acknowledged before me this 19th day of January, 2005 by Ebe Walter whom is personally known.


Notary

My Commission expires: 6-29-07



Susan G. Kitchens
MY COMMISSION # DD194171 EXPIRES
June 29, 2007
BONDED THRU TROY FAIR INSURANCE, INC.

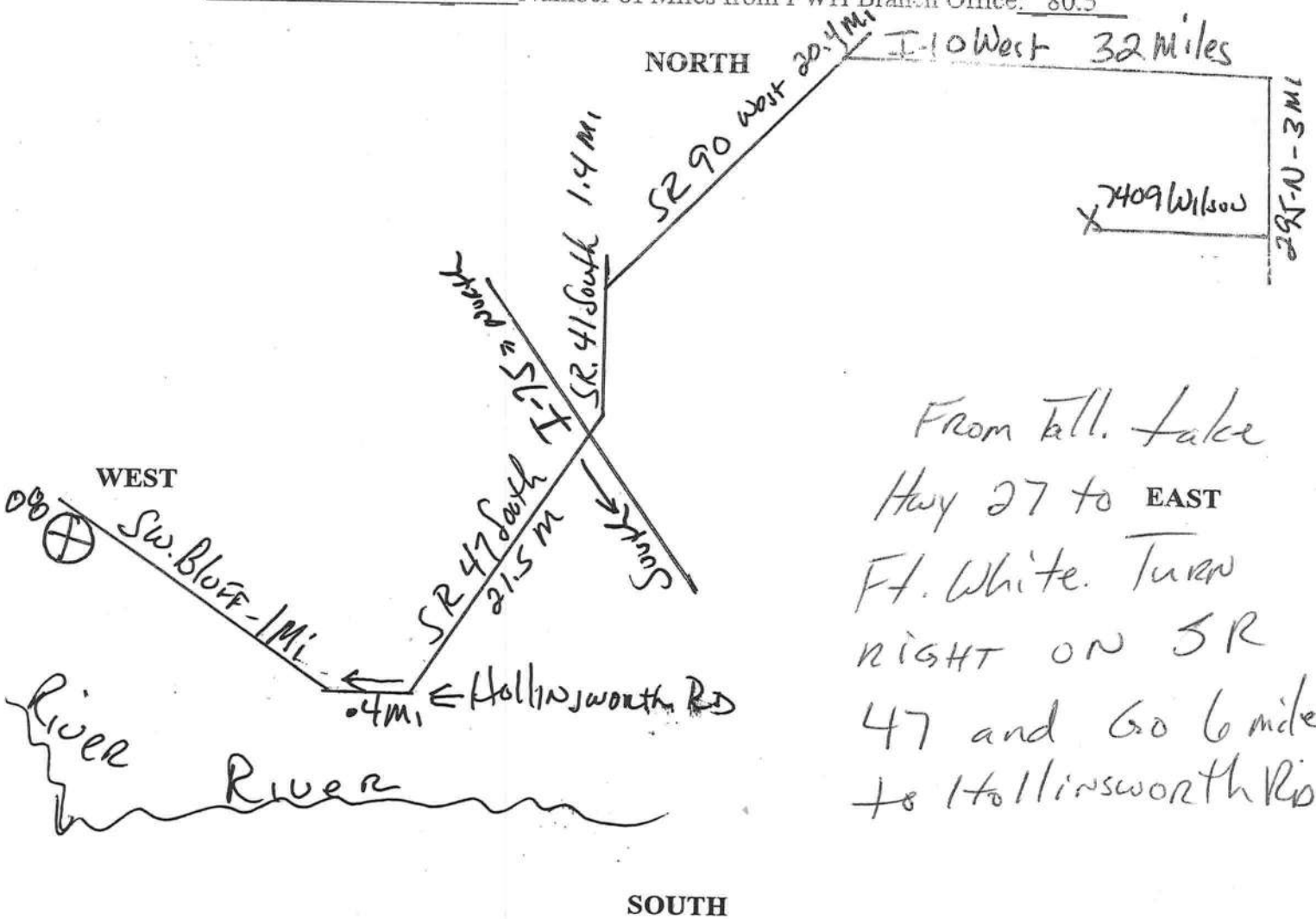
679 Blackshear Road • Thomasville, Georgia 31792 • PWHhomes.com
Phone: (229) 225-1730 • Fax: (229) 227-6191

PWH HOMES

DIRECTIONS MAP TO BUYER Donald W. Harris BUILDING SITE

JOB # 4-02-0102 LOCATION 1108 SW Bluff Dr Fort White FL 32038

MODEL The Todd Number of Miles from PWH Branch Office: 80.5



WE NEED DETAILED DIRECTIONS, INCLUDING IDENTIFYING LANDMARKS SUCH AS STORES, SIGNS, GAS STATIONS WITH ALL MILEAGE LISTED IN TENTHS. EXAMPLE: TURN RIGHT ON YABADABBA STREET GO DOWN 6 6/10'S MILES TO DOWNY STREET. IF LOT IS SITUATED NEXT TO, OR ACROSS THE STREET FROM, EXISTING HOMES WITH STREET NUMBERS OR POST OFFICE BOX NUMBERS, PLEASE MAKE NOTE ON THIS DIRECTION SHEET. WRITE DIRECTIONS IN WORDS AND DO NOT FAIL TO PUT UP PENNYWORTH HOMES SIGNS.

295 North to I 10 West 32 miles to Exit 324 The SR 90/ Sanderson exit Go Left on SR 90 W 20.4 miles Turn left on SR 41 South go 1.4 miles to SR 47 South go 21.5 miles through Fort White. turn right @ Hollinsworth Rd just before the River PWH homes sign on corner Go .4 miles to SW Bluff DR turn right and go 1 mile to 1108 SW Bluff. Address is on the Mail Box PWH sign at end of drive.

ACORD™

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
01/03/05

PRODUCER

BB&T-Landrum Yaeger
3375-B Capital Circle, NE
PO Box 14099
Tallahassee, FL 32317THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION
ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE
HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR
ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

INSURED

Walter Holding Co.
Pennyworth Homes, Inc.
679 Blackshear Road
Thomasville, GA 31792

INSURERS AFFORDING COVERAGE

NAIC

INSURER A: Auto Owners Insurance Company

18988

INSURER B: Application Being Marketed

AGENCY

INSURER C: Assurance Co of America (Home Builde

19305

INSURER D:

INSURER E:

COVERAGES

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING
ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR
MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH
POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR	ADD'L	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS	
A	X	GENERAL LIABILITY <input type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC	38954279	01/01/05	01/01/06	EACH OCCURRENCE	\$500,000
						DAMAGE TO RENTED PREMISES (Ea occurrence)	\$50,000
						MED EXP (Any one person)	\$5,000
						PERSONAL & ADV INJURY	\$500,000
						GENERAL AGGREGATE	\$500,000
						PRODUCTS - COMP/OP AGG	\$500,000
A		AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS	9544723600	01/01/05	01/01/06	COMBINED SINGLE LIMIT (Ea accident)	\$500,000
						BODILY INJURY (Per person)	\$
						BODILY INJURY (Per accident)	\$
						PROPERTY DAMAGE (Per accident)	\$
		GARAGE LIABILITY <input type="checkbox"/> ANY AUTO				AUTO ONLY - EA ACCIDENT	\$
						OTHER THAN AUTO ONLY: EA ACC	\$
						AGG	\$
A		EXCESS/UMBRELLA LIABILITY <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS MADE DEDUCTIBLE <input checked="" type="checkbox"/> RETENTION \$ 10000	9595427900	01/01/05	01/01/06	EACH OCCURRENCE	\$5,000,000
						AGGREGATE	\$5,000,000
							\$
							\$
							\$
B		WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? If yes, describe under SPECIAL PROVISIONS below	WC163713095	01/01/05	01/01/06	WC STATU-TORY LIMITS	
						OTH-ER	
						E.L. EACH ACCIDENT	\$500,000
						E.L. DISEASE - EA EMPLOYEE	\$500,000
						E.L. DISEASE - POLICY LIMIT	\$500,000
C		OTHER Builders Risk	BR94334084	01/01/05	01/01/06	See below for Job Limit	

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES / EXCLUSIONS ADDED BY ENDORSEMENT / SPECIAL PROVISIONS

CERTIFICATE HOLDER

Columbia County Building Dept
PO Drawer 1529
Lake City, FL 32056

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION
DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL 10 DAYS WRITTEN
NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL
IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR
REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

Scott Jay



STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

CONSTRUCTION INDUSTRY LICENSING BOARD
1940 NORTH MONROE STREET
TALLAHASSEE FL 32399-0783

(850) 487-1395

WALTER, EBE
PENNYWORTH HOMES INC
679 BLACKSHEAR ROAD
THOMASVILLE GA 31792

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND
PROFESSIONAL REGULATION

AC#1541536

CRC058477 06/13/04 040138349

CERTIFIED RESIDENTIAL CONTRACTOR
WALTER, EBE
PENNYWORTH HOMES INC

IS CERTIFIED under the provisions of Ch.489 FS.
Expiration date: AUG 31, 2006 L04081305133

DETACH HERE

1541536

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
CONSTRUCTION INDUSTRY LICENSING BOARD

SEQ#L04081305133

DATE	BATCH NUMBER	LICENSE NBR
13/2004	040138349	CRC058477

e. RESIDENTIAL CONTRACTOR
med below IS CERTIFIED
der the provisions of Chapter 489 FS.
piration date: AUG 31, 2006

WALTER, EBE
PENNYWORTH HOMES INC
679 BLACKSHEAR ROAD
THOMASVILLE GA 31792

JEFF BUSH
GOVERNOR

DIANE CARR
SECRETARY



FLOOD ELEVATION INFORMATION REPORT

**SUWANNEE
RIVER
WATER
MANAGEMENT
DISTRICT**

TO: Richard Obszarski
PWH Homes
7409 Wilson Blvd.
Jacksonville, FL 32210

9225 CR 49
Live Oak, FL 32060
TELEPHONE: 386-362-1001
TELEPHONE: 800-226-1066
FAX: 386-362-1056

DATE: October 12, 2004

As a service to the public, the Suwannee River Water Management District (District) is providing information on flooding along particular rivers within the District. The river mile location and flood elevations are based upon the location description that was provided to the District. **This information should not be used to make any final determinations regarding flood insurance and/or building requirements. It is provided solely as an assistance for local county and/or city building departments to make those decisions.** Bench mark elevations and topographical surveys are the only means of providing actual flood elevation data for a specific lot along a river.

Flood information is being provided for the following legal description:

County: Columbia	River (Nearest): Santa Fe	
Section/Township/Range: 18 / 7 S / 16E	Subdivision:	
Tax Parcel ID: 18-7S-16-04236-049	Unit No.:	Lot No.:

FLOOD INFORMATION

NOTE: All elevations are in feet above mean sea level (MSL)

Flood Elevation Information for the:	Santa Fe River
Nearest River Mile:	14
Elevation of the Flood of Record:	N/A
Elevation of the 100-Year Flood:	36
Elevation of the 10-Year Flood:	32
Elevation of the 2-Year Flood:	25

It was determined from the information provided that this property **is partially located** in a regulatory floodway zone. Please be advised that new information could change this determination.

Louis Martin

District Staff

This flooding information is based upon the Federal Emergency Management Agency (FEMA) study and is a matter of public record. The FEMA flooding records have also been provided to the local building department offices.

cc: Flood Information

Revised 4/22/03



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

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

February 18, 2005

Revised: February 21, 2005

Pennyworth Homes
679 Blackshear Road
Thomasville, Georgia 31792

Attention: Elaine Tomlinson

Reference: Proposed Donald Harris Residence
1108 S. W. Bluff Drive
Lot 13, Cedar Springs Shores, Unit 5
Fort White, Florida
Cal-Tech Project No. 05-072

Dear Ms. Tomlinson,

Cal-Tech Testing, Inc. has completed the subsurface investigation and engineering evaluation of a building site at the referenced location. Our work was authorized by you.

We understand you will construct a single-story, wood frame residence with a plan area of about 1,600 square feet. We were provided a site plan and site location map. Support for the residence is to be provided by masonry piers supported by isolated, shallow spread footings. The footings are to have lateral dimensions of 24 inches by 24 inches, a thickness of 12 inches, and bottom embedment of 12 inches. Pier loads are expected not to exceed about 10 kips.

The purposes of our investigation were to evaluate the existing subgrade soils for an allowable bearing pressure of 2,500 pounds per square foot and to provide recommendations as appropriate.

Site Investigation

The building site was investigated by performing two (2) Dynamic Cone Penetration Tests with hand-auger borings advanced to depths of 6 and 7 feet. The borings were performed at the approximate locations indicated on the attached Location Plan. These locations were selected by Cal-Tech Testing, Inc. using the site plan provided.

The dynamic cone penetration test is performed by driving a standard 60 degree cone into the soil by blows from a 15-pound slide-hammer falling 20 inches. The

"Excellence in Engineering & Geoscience"

number of blows required to advance the cone 1.75 inches is designated the dynamic cone penetration resistance. This value can be correlated to N-values of the Standard Penetration Test and is an index of soil density or consistency.

Hand-auger borings are performed by manually advancing a 3-inch diameter, metal sleeve into the soil to recover samples from limited depths. Samples are examined for soil type and color.

Findings

At boring location B-1 the soil boring generally encountered three soil strata. The first layer consists of about 1.0 feet of loose, gray sand with silt and traces of organics (SP/SM). This layer we believe is topsoil, and equivalent N-values of this layer are on the order of 5 blows per foot.

The second layer consists of about 3.0 feet of loose, light gray to white or tan and gray sand (SP). The equivalent N-values of this layer are on the order of 7 to 9 blows per foot.

The third layer consists of an undetermined thickness of loose to medium dense, tan or grayish tan sand (SP). The equivalent N-values of this layer range from 10 to 24 blows per foot.

At boring location B-2 the soil boring generally encountered four soil strata. The first layer consists of about 2.5 feet of soft to medium stiff, gray or gray and tan, sandy clay (CL). We believe this layer is fill material placed at the site, and equivalent N-values of this layer range from 3 to 6 blows per foot.

The second layer consists of about 1.0 feet of very loose, dark gray to black, silty sand with organics (SM). The equivalent N-values of this layer are on the order of 2 blows per foot.

The third layer consists of about 1.0 feet of dense, gray sand with silt (SP/SM). Equivalent N-values of this layer are on the order of 34 blows per foot.

The fourth layer consists of an undetermined thickness of dense, light tannish gray limestone with equivalent N-values on the order of 37 blows per foot.

Groundwater was not encountered at the time of our investigation. For a more detailed description of the subsurface conditions encountered, please refer to the attached Boring Logs.

Discussion

Based upon our findings and understanding of the proposed construction, we have performed a bearing capacity analysis for the immediate bearing soils at both

boring locations. We have used 24 inch square, isolated footings with bottom embedment of 12 inches. For these foundations and the site soils as encountered at boring location B-1, we obtained an allowable bearing capacity of 2,500 pounds per square foot with a factor of safety of about 1.3 against a bearing capacity failure. For boring location B-2 we obtained an allowable bearing capacity of approximately 1,400 pounds per square foot using a minimum suggested factor of safety of 3.0. It is our opinion the subgrade soils at boring location B-1 are suitable for shallow foundations with an allowable bearing capacity of 2,500 pounds per square foot. However, it is also our opinion the subgrade soils at boring location B-2 are not suitable for an allowable bearing capacity of 2,500 pounds per square foot.

We recommend the clay soils of the first layer and the silty sand with organics of the second layer be excavated and replaced where present. It appears these soils are located near boring location B-2. Additionally, we recommend the lateral limits of excavation and replacement extend a minimum of 18 inches beyond the edges of the foundations. Replacement soils should consist of relatively clean, fine sand containing less than 10% passing the No. 200 sieve. This replacement soil should be placed in maximum 12-inch, loose lifts, and each lift should be proof-compacted to a minimum of 95% of the Modified Proctor maximum dry density.

Normal, good practice site preparation requires compaction of bearing soils; therefore, we recommend the subgrade soils in all foundation bearing areas be proof-compacted to a minimum of 95% of the Modified Proctor maximum dry density to a minimum depth of 1 foot. Also, we suggest the bottoms of all foundations be located a minimum of 18 inches below the finished surface grade to lessen the risk of erosion.

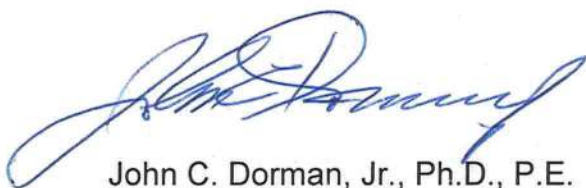
Our evaluation and recommendations are based upon subsurface conditions encountered at the specific boring locations; however, subsurface conditions may exist that differ from our findings. Should substantially different site conditions be encountered, we request that we be notified such that these conditions may be evaluated and recommendations provided as appropriate.

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

2/21/05
52612

B-1

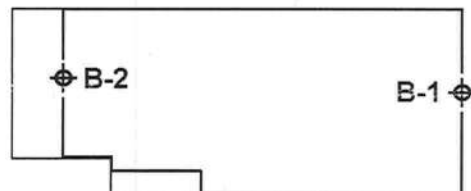
Water Table: N/A

Depth (ft)	Equivalent N-Value	Soil Description
0	5	Loose, Gray SAND with SILT, Trace Organics (SP/SM)
7	9	Loose, Light Gray to White SAND (SP)
9	9	Loose, Tan and Gray SAND (SP)
24	24	Medium Dense, Tan SAND (SP)
5	24	
	10	Loose, Light Grayish Tan SAND (SP)

B-2

Water Table: N/A

Depth (ft)	Equivalent N-Value	Soil Description
0	4	Soft to Medium Stiff, Gray, SANDY CLAY (CL)
6	3	Soft, Gray and Tan, SANDY CLAY (CL)
3	2	Very Loose, Dark Gray to Black, SILTY SAND with ORGANICS (SM)
2	34	Dense, Gray SAND with SILT (SP/SM)
5	37	Dense, Light Tannish Gray LIMESTONE



**Boring Logs and Location Plan: 1108 S.W. Bluff Drive
Fort White, Florida**

Columbia County Building Department
Flood Development Permit

Development Permit
F 023- 05-007

DATE 04/20/2005 BUILDING PERMIT NUMBER 000023048
APPLICANT EBE WALTER PHONE 229-225-1730
ADDRESS 679 BLACKSHEAR RD THOMASVILLE GA 31792
OWNER DONALD HARRIS PHONE 752-7669
ADDRESS 1108 SW BLUFF DR FORT WHITE FL 32038
CONTRACTOR EBE WALTER/PENNYWORTH HOMES PHONE 229-225-1730
ADDRESS _____ FL _____
SUBDIVISION CEDAR SPRINGS SHORES Lot 13 Block _____ Unit _____ Phase _____
TYPE OF DEVELOPMENT SFD, UTILITY PARCEL ID NO. 18-7S-16-04236-049

FLOOD ZONE AE BY BK 1-6-88 FIRM COMMUNITY #. 120070 - PANEL #. 255 B
FIRM 100 YEAR ELEVATION 36 PLAN INCLUDED (YES) or NO
REQUIRED LOWEST HABITABLE FLOOR ELEVATION 37
IN THE REGULATORY FLOODWAY (YES) or NO RIVER Santa Fe
SURVEYOR / ENGINEER NAME Curtis Keen LICENSE NUMBER 23836

_____ ONE FOOT RISE CERTIFICATION INCLUDED

☒ ZERO RISE CERTIFICATION INCLUDED

_____ SRWMD PERMIT NUMBER _____
(INCLUDING THE ONE FOOT RISE CERTIFICATION)

DATE THE FINISHED FLOOR ELEVATION CERTIFICATE WAS PROVIDED _____

INSPECTED DATE _____ BY _____

COMMENTS _____

135 NE Hernando Ave., Suite B-21
Lake City, Florida 32055
Phone: 386-758-1008
Fax: 386-758-2160



PERMIT EXPIRES ONE YEAR FROM THE DATE OF ISSUANCE

ENGINEERING "NO-RISE" CERTIFICATION

This is to certify that I am duly qualified engineer licensed to practice in the State of FLORIDA.

It is to further certify that the attached technical data supports the fact that proposed DON HARRIS SUBSTRUCTURE
LOT 13, CEDAR SPRINGS SHORES #5 will not impact
(Name of Development)

the 100-year flood elevations, floodway elevations and floodway widths on SANTE FE RIVER
(Name of Stream)

at published sections in the Flood Insurance Study for COLUMBIA COUNTY, dated
(Name of Community)

1/6/88 and will not impact
the 100-year flood elevations, floodway elevations, and floodway widths at unpublished cross-sections in the vicinity of the proposed development.

4/14/05
(Date)

Curtis Keen
(Signature)
PE # 23836
(Title)

9263 CR 417
(Address)
LIVE OAK, FL 32060

SEAL:

FEMA, NTHD
8/91

HEC-2 WATER SURFACE PROFILES
Version 4.6.2; May 1991

T1 SANTA FE RIVER
T2 THROUGH ALACHUA COUNTY
T3 100-YR DISCHARGE HARRIS RESIDENCE EXISTING

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q
	0	2	0	0	0	0	0	0
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW
	1	0	-1	0	0	0	0	0

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

	110	200						
NC	.28	.28	.045	0.1	0.3			
QT	4	8457	13409	16359	22200			
X1	11.30	28	12080.0	12345.0	5900.	4400.		6550.
GR	40.0	10000.0	35.90	10116.0	31.30	10270.0		35.80
GR	40.5	10755.0	34.90	10968.0	28.70	11118.0		22.90
GR	20.0	11856.0	18.20	11938.0	14.20	12080.0		10.60
GR	7.0	12250.0	9.90	12300.0	14.20	12345.0		20.20
GR	19.5	12548.0	17.30	12597.0	16.20	12861.0		17.00
GR	30.2	13173.0	40.00	13249.0	41.70	13294.0		
X1	13.03	31	12920.0	13085.0	6100.	5400.		9130.
GR	40.0	10000.0	38.40	10118.0	39.00	10251.0		39.30
GR	34.0	10479.0	31.50	10562.0	29.90	10858.0		29.50
GR	27.4	11746.0	26.80	11961.0	32.30	12415.0		30.40
GR	19.7	12868.0	13.30	12920.0	8.50	12950.0		-5.45
GR	13.3	13085.0	16.60	13185.0	16.90	13381.0		19.10
GR	20.0	13810.0	22.20	13901.0	22.80	14050.0		24.20
GR	40.0	14369.0						
X1	14.08	38	12443.0	12650.0	4700.	5500.		5540.
GR	40.0	10000.0	37.90	10089.0	35.70	10283.0		32.30
GR	33.9	10770.0	34.00	11030.0	30.00	11183.0		26.00
GR	20.5	11508.0	20.70	11699.0	21.50	11981.0		23.10
GR	20.4	12443.0	16.00	12471.0	12.80	12500.0		10.60
GR	13.7	12600.0	16.00	12624.0	19.70	12650.0		23.60
GR	16.6	12838.0	23.60	12878.0	24.60	12930.0		24.20
GR	33.4	13172.0	34.50	13298.0	36.40	13507.0		36.60
GR	37.0	13612.0	39.20	13835.0	40.00	13910.0		

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X1	15.08	31	12118.0	12361.0	5700.	4000.	5280.
GR	39.5	10000.0	33.30	10238.0	31.80	10462.0	27.40
GR	26.4	10883.0	26.80	10963.0	26.30	10976.0	26.30
GR	26.0	11178.0	23.90	11416.0	24.10	11547.0	21.40
GR	25.3	11777.0	23.30	11863.0	22.70	12004.0	24.80
GR	10.2	12200.0	6.52	12250.0	10.82	12280.0	17.10
GR	24.5	12361.0	27.60	12489.0	38.10	12702.0	38.90
GR	40.0	12915.0					
X1	15.66	92	15145.0	15361.0	3400.	2500.	3060.
GR	40.0	10000.0	39.60	10065.0	39.50	10193.0	37.50
GR	39.3	10232.0	38.90	10243.0	37.30	10253.0	39.30
GR	39.7	10432.0	39.90	10490.0	39.90	10524.0	39.70
GR	37.1	10755.0	36.30	10844.0	35.50	10987.0	34.80
GR	31.3	11296.0	32.60	11395.0	34.00	11468.0	36.60
GR	39.0	11769.0	38.50	11832.0	38.00	11914.0	38.00
GR	38.9	12291.0	39.20	12353.0	38.40	12453.0	36.30
GR	30.3	12760.0	30.30	12848.0	30.20	12903.0	31.60
GR	32.8	13172.0	32.10	13264.0	30.70	13337.0	29.60
GR	28.1	13667.0	28.10	13773.0	28.40	13868.0	30.00
GR	31.7	14124.0	32.50	14224.0	29.60	14358.0	28.60
GR	27.0	14624.0	27.50	14663.0	28.20	14701.0	25.70
GR	26.5	14934.0	27.20	14999.0	26.60	15071.0	25.20
GR	13.2	15200.0	10.22	15250.0	13.52	15300.0	17.30
GR	17.9	15467.0	20.20	15513.0	25.20	15629.0	25.20
GR	29.0	16293.0	32.30	16439.0	35.10	16623.0	39.20
GR	40.3	16904.0	37.10	16927.0	37.10	16955.0	35.80
GR	36.5	16998.0	37.90	17053.0	39.00	17121.0	38.10
GR	40.2	17179.0	41.30	17212.0			
NC				0.3	0.5		
QT	4	9192	13791	16717	22200		
X1	15.70	63	14820.0	15140.0	200.0	200.0	200.0
BT	8	14820.	38.3	38.3	14823	39.15	37.5
BT	14992	40.1	38.4	15052.	40.1	38.4	15066
BT	39.11	37.44	15140.	38.10	38.10		
GR	40.0	10000.0	39.00	10190.0	38.00	10363.0	36.40
GR	34.8	10877.0	34.60	11024.0	34.70	11210.0	34.70
GR	36.1	11635.0	37.50	11824.0	37.90	12029.0	37.90
GR	37.2	12351.0	36.50	12494.0	35.50	12645.0	35.00
GR	34.4	13056.0	34.20	13161.0	34.30	13256.0	33.90
GR	33.9	13649.0	33.90	13750.0	34.00	13926.0	34.20
GR	34.4	14423.0	35.90	14522.0	37.60	14678.0	38.30
GR	20.1	14843.0	9.50	14924.0	37.50	14924.0	37.50
GR	9.4	14937.0	10.20	14987.0	13.90	14992.0	38.40
GR	13.9	14996.0	18.40	15052.0	21.40	15060.0	37.44
GR	21.4	15066.0	37.44	15135.0	38.10	15140.0	37.00
GR	34.0	15754.0	33.80	15920.0	34.20	16103.0	35.10
GR	37.5	16573.0	38.90	16736.0	40.00	16882.0	

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X1	15.71	63	14820.0	15140.0	25.0	25.0	25.0
BT	8	14820.	38.3	38.3	14823	39.15	37.5
BT	14992	40.1	38.4	15052.	40.1	38.4	15066
BT	39.11	37.44	15140.	38.10	38.10		
GR	40.0	10000.0	39.00	10190.0	38.00	10363.0	36.40
GR	34.8	10877.0	34.60	11024.0	34.70	11210.0	34.70
GR	36.1	11635.0	37.50	11824.0	37.90	12029.0	37.90
GR	37.2	12351.0	36.50	12494.0	35.50	12645.0	35.00
GR	34.4	13056.0	34.20	13161.0	34.30	13256.0	33.90
GR	33.9	13649.0	33.90	13750.0	34.00	13926.0	34.20
GR	34.4	14423.0	35.90	14522.0	37.60	14678.0	38.30
GR	20.1	14843.0	9.50	14924.0	37.50	14924.0	37.50
GR	9.4	14937.0	10.20	14987.0	13.90	14992.0	38.40
GR	13.9	14996.0	18.40	15052.0	21.40	15060.0	37.44
GR	21.4	15066.0	37.44	15135.0	38.10	15140.0	37.00
GR	34.0	15754.0	33.80	15920.0	34.20	16103.0	35.10
GR	37.5	16573.0	38.90	16736.0	40.00	16882.0	

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR

*PROF 1

CCHV= .100 CEHV= .300
*SECNO 11.300

3265 DIVIDED FLOW

11.300	28.00	35.00	.00	35.00	35.01	.01	.00
8457.0	1055.3	5966.5	1435.3	12574.8	6824.8	13661.9	.0
.00	.08	.87	.11	.280	.045	.280	.000
.000009	5900.	6550.	4400.	0	0	0	.00

*SECNO 13.030

13.030	40.53	35.08	.00	.00	35.09	.01	.09
8457.0	1147.0	5115.1	2194.9	15698.9	4749.5	18588.8	5191.6
3.19	.07	1.08	.12	.280	.045	.280	.000
.000013	6100.	9130.	5400.	1	0	0	.00

*SECNO 14.080

14.080	24.67	35.17	.00	.00	35.19	.02	.09
8457.0	2233.2	5508.4	715.4	16934.2	4381.7	5414.0	9048.1
4.91	.13	1.26	.13	.280	.045	.280	.000
.000025	4700.	5540.	5500.	2	0	0	.00

*SECNO 15.080

15.080	28.78	35.30	.00	.00	35.32	.02	.13
8457.0	2083.4	6198.8	174.8	17286.8	5075.7	1786.0	12190.9
6.50	.12	1.22	.10	.280	.045	.280	.000
.000024	5700.	5280.	4000.	2	0	0	.00

*SECNO 15.660

3265 DIVIDED FLOW

15.660	25.16	35.38	.00	.00	35.39	.02	.07
8457.0	1413.0	5686.3	1357.7	16045.6	4647.6	10973.8	14199.4
7.50	.09	1.22	.12	.280	.045	.280	.000
.000023	3400.	3060.	2500.	0	0	0	.00

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR

CCHV= .300 CEHV= .500
*SECNO 15.700

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .50

3370 NORMAL BRIDGE, NRD= 8 MIN ELTRD= 38.10 MAX ELLC= 38.40

15.700	25.97	35.37	.00	.00	35.42	.05	.01
9192.0	152.2	8978.1	61.7	2597.8	5024.7	987.1	14291.9
7.53	.06	1.79	.06	.280	.045	.280	.000
.000107	200.	200.	200.	1	0	0	.00

*SECNO 15.710

3265 DIVIDED FLOW

3370 NORMAL BRIDGE, NRD= 8 MIN ELTRD= 38.10 MAX ELLC= 38.40

15.710	25.97	35.37	.00	.00	35.42	.05	.00
9192.0	151.2	8979.5	61.3	2585.8	5023.4	983.1	14296.8
7.54	.06	1.79	.06	.280	.045	.280	.000
.000107	25.	25.	25.	0	0	0	.00

Curtis Keen
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	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB
	11.300	35.00	.00	35.01	2503.92	1055.25	5966.48	1435.
	13.030	35.08	.00	35.09	3885.66	1147.01	5115.13	2194.
	14.080	35.17	.00	35.19	3059.64	2233.24	5508.36	715.
	15.080	35.30	.00	35.32	2484.11	2083.37	6198.85	174.
	15.660	35.38	.00	35.39	4569.40	1413.03	5686.27	1357.
*	15.700	35.37	.00	35.42	3863.22	152.20	8978.14	61.
	15.710	35.37	.00	35.42	3859.60	151.23	8979.46	61.

Curtis Kaen
4/14/05
EB#3761

FEDERAL EMERGENCY MANAGEMENT AGENCY
NATIONAL FLOOD INSURANCE PROGRAM

O.M.B. No. 3067-0077
Expires December 31, 2005

ELEVATION CERTIFICATE

Important: Read the instructions on pages 1 - 7.

SECTION A - PROPERTY OWNER INFORMATION

BUILDING OWNER'S NAME

Don Harris

For Insurance Company Use:

Policy Number

BUILDING STREET ADDRESS (Including Apt., Unit, Suite, and/or Bldg. No.) OR P.O. ROUTE AND BOX NO.

1108 SW Bluff Dr

Company NAIC Number

CITY

Ft. White

STATE

FL

ZIP CODE

32038

PROPERTY DESCRIPTION (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)

Lot 13 Cedar Spring Shores Unit 5

BUILDING USE (e.g., Residential, Non-residential, Addition, Accessory, etc. Use a Comments area, if necessary.)

Residential

LATITUDE/LONGITUDE (OPTIONAL)

(##° - ##' - ###" or #####)

HORIZONTAL DATUM:

☐ NAD 1927 ☐ NAD 1983

SOURCE: ☐ GPS (Type):

☐ USGS Quad Map

☐ Other: _____

SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP COMMUNITY NAME & COMMUNITY NUMBER

Columbia 120070

B2. COUNTY NAME

Columbia

B3. STATE

FL

B4. MAP AND PANEL

NUMBER
120070 0255

B5. SUFFIX
B

B6. FIRM INDEX DATE
6 Jan 1988

B7. FIRM PANEL
EFFECTIVE/REVISED DATE
6 Jan 1988

B8. FLOOD ZONE(S)
AE

B9. BASE FLOOD ELEVATION(S)
(Zone AO, use depth of flooding)
36.00

B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in B9.

☐ FIS Profile

☒ FIRM

☐ Community Determined

☐ Other (Describe): _____

B11. Indicate the elevation datum used for the BFE in B9: ☒ NGVD 1929

☐ NAVD 1988

☐ Other (Describe): _____

B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? ☐ Yes ☒ No Designation Date _____

SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: ☐ Construction Drawings* ☐ Building Under Construction* ☒ Finished Construction

*A new Elevation Certificate will be required when construction of the building is complete.

C2. Building Diagram Number 5 (Select the building diagram most similar to the building for which this certificate is being completed - see pages 6 and 7. If no diagram accurately represents the building, provide a sketch or photograph.)

C3. Elevations - Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO

Complete Items C3.-a-i below according to the building diagram specified in Item C2. State the datum used. If the datum is different from the datum used for the BFE in Section B, convert the datum to that used for the BFE. Show field measurements and datum conversion calculation. Use the space provided or the Comments area of Section D or Section G, as appropriate, to document the datum conversion.

Datum 29 Conversion/Comments N/A

Elevation reference mark used N/A Does the elevation reference mark used appear on the FIRM? ☐ Yes ☒ No

- o a) Top of bottom floor (including basement or enclosure) 40. 19 ft.(m)
- o b) Top of next higher floor N. A ft.(m)
- o c) Bottom of lowest horizontal structural member (V zones only) N. A ft.(m)
- o d) Attached garage (top of slab) N. A ft.(m)
- o e) Lowest elevation of machinery and/or equipment servicing the building (Describe in a Comments area) N. A ft.(m)
- o f) Lowest adjacent (finished) grade (LAG) 32. 5 ft.(m)
- o g) Highest adjacent (finished) grade (HAG) 34. 1 ft.(m)
- o h) No. of permanent openings (flood vents) within 1 ft. above adjacent grade N/A
- o i) Total area of all permanent openings (flood vents) in C3.h N/A sq. in. (sq. cm)

License Number, Embossed Seal, Signature, and Date



SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information.

I certify that the information in Sections A, B, and C on this certificate represents my best efforts to interpret the data available.

I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.

CERTIFIER'S NAME L. Scott Britt

LICENSE NUMBER PLS #5757

TITLE Chief Surveyor

COMPANY NAME Britt Surveying

ADDRESS

830 W. Duval St.

CITY

Lake City

STATE

FL

ZIP CODE

32055

SIGNATURE

DATE

12/02/04

TELEPHONE

386-752-7163

IMPORTANT: In these spaces, copy the corresponding information from Section A.			For Insurance Company Use:
BUILDING STREET ADDRESS (Including Apt., Unit, Suite, and/or Bldg. No.) OR P.O. ROUTE AND BOX NO. 1100 SW Bluff Dr.			Policy Number
CITY Ft. White	STATE FL	ZIP CODE 32038	Company NAIC Number

SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)

Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building owner.

COMMENTS
There is an elevated residence on this parcel at this time.

L-16284 ☐ Check here if attachments

SECTION E - BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)

- For Zone AO and Zone A (without BFE), complete items E1 through E4. If the Elevation Certificate is intended for use as supporting information for a LOMA or LOMR-F, Section C must be completed.
- E1. Building Diagram Number __ (Select the building diagram most similar to the building for which this certificate is being completed – see pages 6 and 7. If no diagram accurately represents the building, provide a sketch or photograph.)
- E2. The top of the bottom floor (including basement or enclosure) of the building is __ ft.(m) __ in.(cm) ☐ above or ☐ below (check one) the highest adjacent grade. (Use natural grade, if available).
- E3. For Building Diagrams 6-8 with openings (see page 7), the next higher floor or elevated floor (elevation b) of the building is __ ft.(m) __ in.(cm) above the highest adjacent grade. Complete items C3.h and C3.i on front of form.
- E4. The top of the platform of machinery and/or equipment servicing the building is __ ft.(m) __ in.(cm) ☐ above or ☐ below (check one) the highest adjacent grade. (Use natural grade, if available).
- E5. For Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance?
☐ Yes ☐ No ☐ Unknown. The local official must certify this information in Section G.

SECTION F - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections A, B, C (Items C3.h and C3.i only), and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. *The statements in Sections A, B, C, and E are correct to the best of my knowledge.*

PROPERTY OWNER'S OR OWNER'S AUTHORIZED REPRESENTATIVE'S NAME

ADDRESS	CITY	STATE	ZIP CODE
SIGNATURE	DATE	TELEPHONE	
COMMENTS			

☐ Check here if attachments

SECTION G - COMMUNITY INFORMATION (OPTIONAL)

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below.

- G1. ☐ The information in Section C was taken from other documentation that has been signed and embossed by a licensed surveyor, engineer, or architect who is authorized by state or local law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)
- G2. ☐ A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.
- G3. ☐ The following information (Items G4-G9) is provided for community floodplain management purposes.

G4. PERMIT NUMBER	G5. DATE PERMIT ISSUED	G6. DATE CERTIFICATE OF COMPLIANCE/OCCUPANCY ISSUED
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G7. This permit has been issued for: ☐ New Construction ☐ Substantial Improvement

G8. Elevation of as-built lowest floor (including basement) of the building is: _____ ft.(m) Datum: _____

G9. BFE or (in Zone AO) depth of flooding at the building site is: _____ ft.(m) Datum: _____

LOCAL OFFICIAL'S NAME	TITLE
COMMUNITY NAME	TELEPHONE
SIGNATURE	DATE
COMMENTS	

☐ Check here if attachments

BUILDING DIAGRAMS

The following eight diagrams illustrate various types of buildings. Compare the features of the building being certified with the features shown in the diagrams and select the diagram most applicable. Enter the diagram number in Item C2 and the elevations in Items C3a-C3g.

In A zones, the floor elevation is taken at the top finished surface of the floor indicated; in V zones, the floor elevation is taken at the bottom of the lowest horizontal structural member (see drawing in instructions for Section C).

DIAGRAM 1

All slab-on-grade single- and multiple-floor buildings (other than split-level) and high-rise buildings, either detached or row type (e.g., townhouses); with or without attached garage.

Distinguishing Feature - The bottom floor is at or above ground level (grade) on at least one side. *

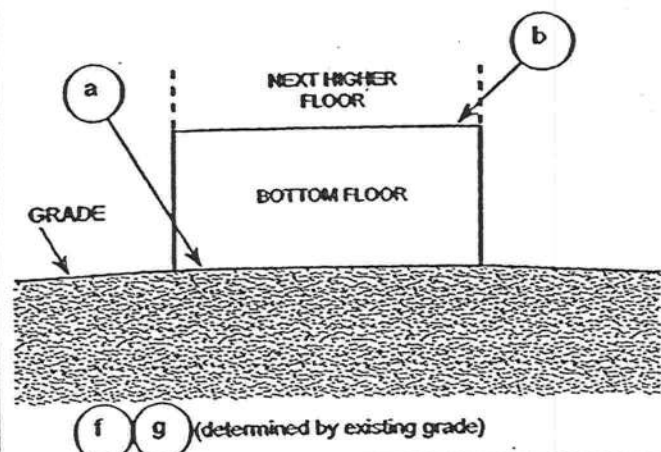


DIAGRAM 2

All single- and multiple-floor buildings with basement (other than split-level) and high-rise buildings with basement, either detached or row type (e.g., townhouses); with or without attached garage.

Distinguishing Feature - The bottom floor (basement or underground garage) is below ground level (grade) on all sides. Buildings constructed above crawl spaces that are below grade on all sides should also use this diagram. *

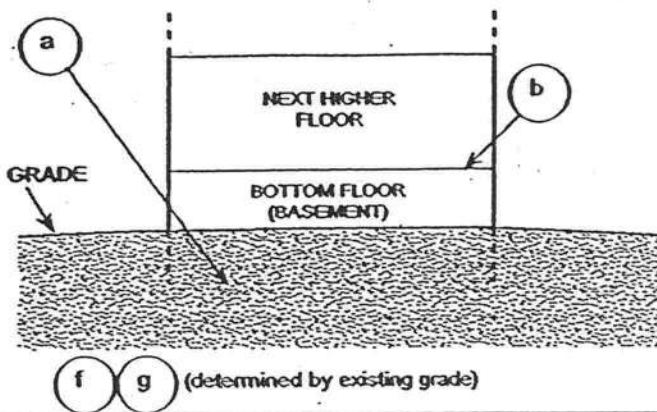


DIAGRAM 3

All split-level buildings that are slab-on-grade, either detached or row type (e.g., townhouses); with or without attached garage.

Distinguishing Feature - The bottom floor (excluding garage) is at or above ground level (grade) on at least one side. *

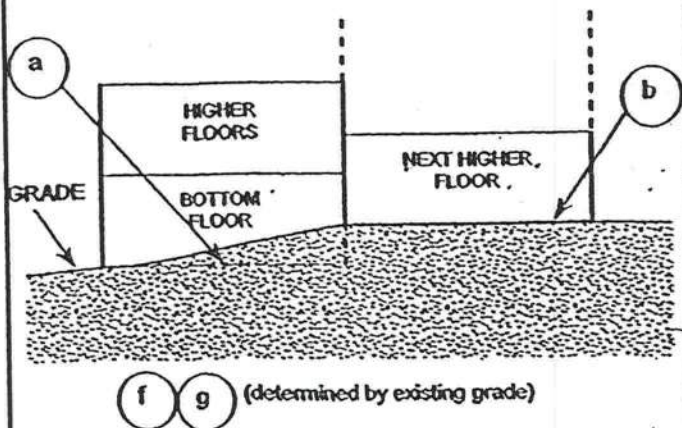
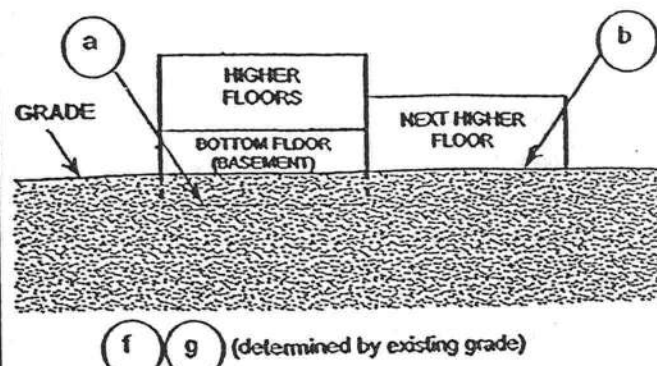


DIAGRAM 4

All split-level buildings (other than slab-on-grade), either detached or row type (e.g., townhouses); with or without attached garage.

Distinguishing Feature - The bottom floor (basement or underground garage) is below ground level (grade) on all sides. Buildings constructed above crawl spaces that are below grade on all sides should also use this diagram. *



* A floor that is below ground level (grade) on all sides is considered a basement even if the floor is used for living purposes, or as an office, garage, workshop, etc.

DIAGRAM 5

All buildings elevated on piers, posts, piles, columns, or parallel shear walls. No obstructions below the elevated floor.

Distinguishing Feature – For all zones, the area below the elevated floor is open, with no obstruction to flow of flood waters (open lattice work and/or readily removable insect screening is permissible).

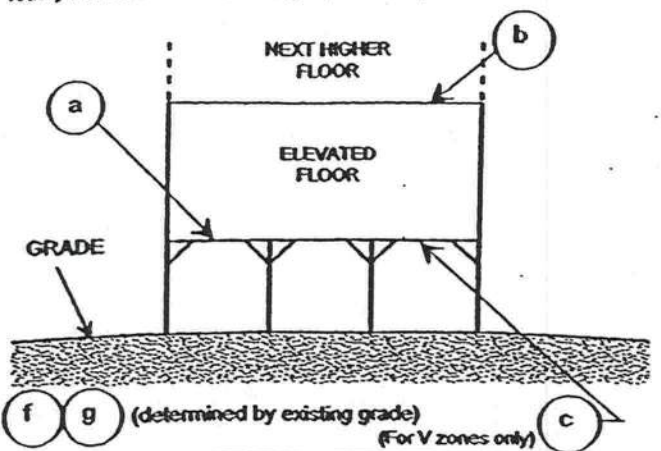


DIAGRAM 6

All buildings elevated on piers, posts, piles, columns, or parallel shear walls with full or partial enclosure below the elevated floor.

Distinguishing Feature – For all zones, the area below the elevated floor is enclosed, either partially or fully. In A Zones, the partially or fully enclosed area below the elevated floor is with or without openings^{***} present in the walls of the enclosure. Indicate information about openings in Section C, Building Elevation Information (Survey Required).

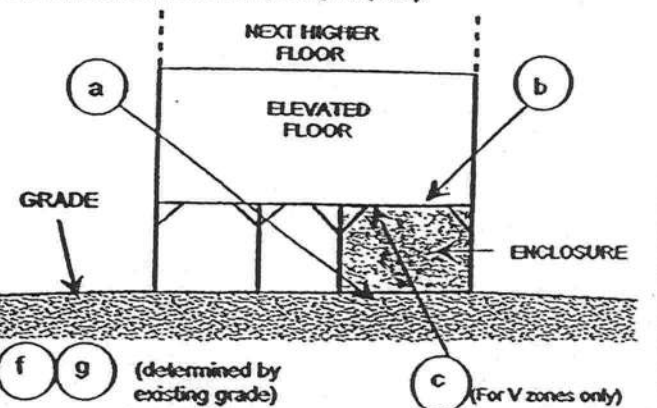


DIAGRAM 7

All buildings elevated on full-story foundation walls with a partially or fully enclosed area below the elevated floor. This includes walkout levels, where at least one side is at or above grade. The principal use of this building is located in the elevated floors of the building.

Distinguishing Feature – For all zones, the area below the elevated floor is enclosed, either partially or fully. In A Zones, the partially or fully enclosed area below the elevated floor is with or without openings^{***} present in the walls of the enclosure. Indicate information about openings in Section C, Building Elevation Information (Survey Required).

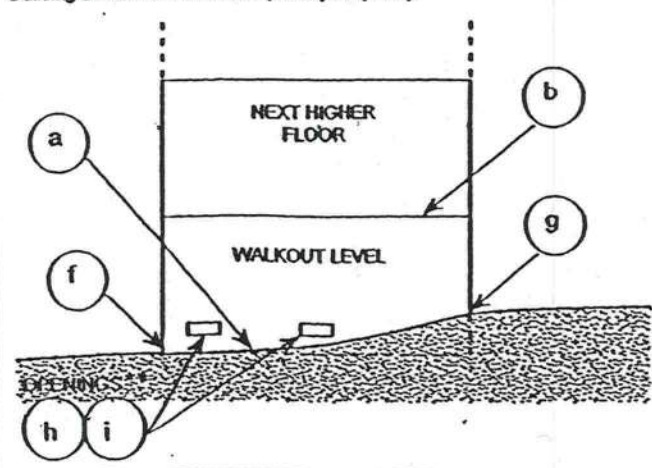
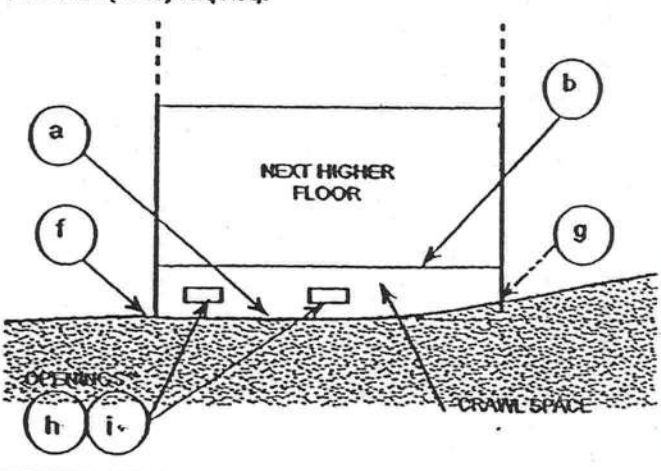


DIAGRAM 8

All buildings elevated on a crawl space with the floor of the crawl space at or above grade on at least one side.

Distinguishing Feature – For all zones, the area below the first floor is enclosed by solid or partial perimeter walls. In all A zones, the crawl space is with or without openings^{***} present in the walls of the crawl space. Indicate information about the openings in Section C, Building Elevation Information (Survey Required).



An "opening" (flood vent) is defined as a permanent opening in a wall that allows for the free passage of water automatically in both directions without human intervention. Under the NFIP, a minimum of two openings is required for enclosures or crawl spaces with a total net area of not less than one square inch for every square foot of area enclosed. Each opening must be on different sides of the enclosed area. If a building has more than one enclosed area, each area must have openings on exterior walls to allow floodwater to directly enter. The bottom of the openings must be no higher than one foot above the grade underneath the flood vents. Alternatively, you may submit a certification by a registered professional engineer or architect that the design will allow for the automatic equalization of hydrostatic flood forces on exterior walls. A window, a door, or a garage door is not considered an opening.

COLUMBIA COUNTY FLORIDA DEPARTMENT OF BUILDING AND ZONING

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 18-7S-16-04236-049

Building permit No. 000023048

Use Classification SFD, UTILITY

Fire: .00

Permit Holder EBE WALTER/PENNYWORTH HOMES

Waste: .00

Owner of Building DONALD HARRIS

Total: .00

Location: 1108 SW BLUFF DRIVE(CEDAR SPRINGS SHORES, LOT 13)

Date: 10/07/2005

Harry Dicks

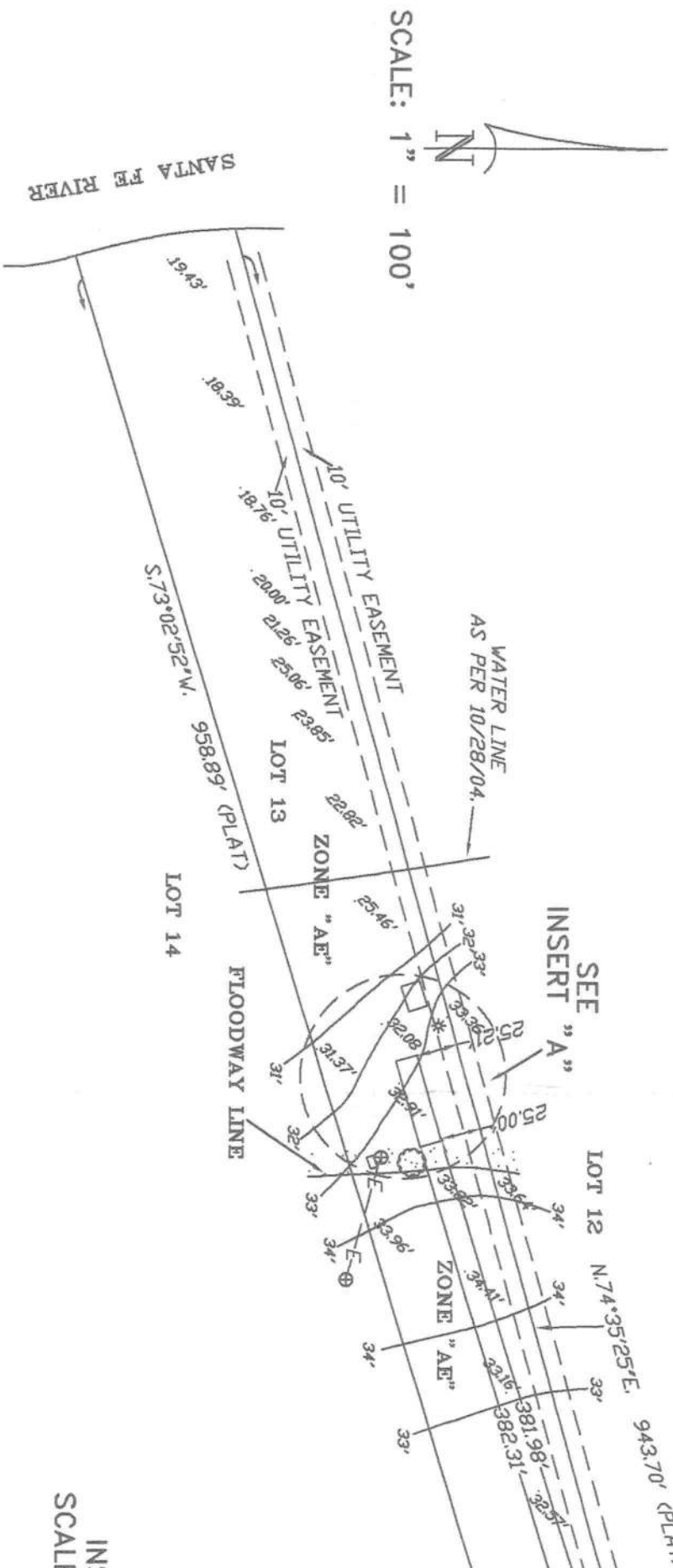
Building Inspector



POST IN A CONSPICUOUS PLACE
(Business Places Only)

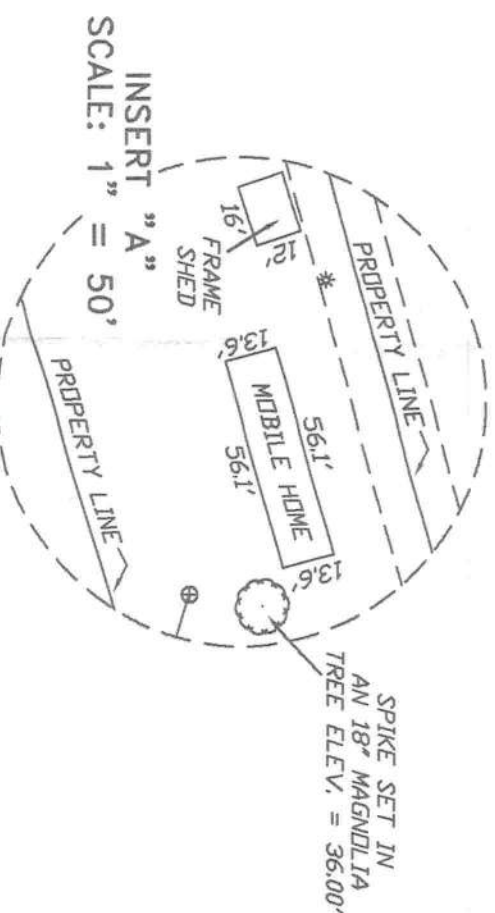
DESCRIPTION
LOT 13 OF CEDAR SPRINGS SHORES-UNIT NO. 5* AS PER PLAT THEREOF RECORDED IN PLAT BOOK 4, PAGES 5-5B OF THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA.

- SURVEYOR'S NOTES:
1. BOUNDARY BASED ON MONUMENTATION FOUND IN ACCORDANCE WITH THE RETRACEMENT OF THE ORIGINAL SURVEY FOR SAID PLAT OF RECORD.
 2. BEARINGS ARE BASED ON SAID PLAT OF RECORD.
 3. THIS PARCEL IS IN THE FLOODWAY OF ZONE "AE" AND IS SUBJECT TO FLOODING. A BASE FLOOD ELEVATION IS ESTABLISHED TO BE 35-36 FEET AS PER FLOOD INSURANCE RATE MAP, DATED 6 JAN. 1988 COMMUNITY PANEL NO. 120070 0255 B. HOWEVER, THE FLOOD INSURANCE RATE MAPS ARE SUBJECT TO CHANGE.
 4. THE IMPROVEMENTS, IF ANY, INDICATED ON THIS SURVEY DRAWING ARE AS LOCATED ON DATE OF FIELD SURVEY AS SHOWN HEREON.
 5. IF THEY EXIST, NO UNDERGROUND ENCROACHMENTS AND/OR UTILITIES WERE LOCATED FOR THIS SURVEY EXCEPT AS SHOWN HEREON.
 6. THIS SURVEY WAS COMPLETED WITHOUT THE BENEFIT OF A TITLE COMMITMENT OR A TITLE POLICY.
 7. FLOODWAY LINE IS BASED ON INFORMATION FROM SWARD AS SUPPLIED TO THIS OFFICE.



BOUNDARY SURVEY IN SECTION 18, TOWNSHIP 7 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA.

- SYMBOL LEGEND
- 4"x4" CONCRETE MONUMENT FOUND
 - 4"x4" CONCRETE MONUMENT SET
 - IRON PIPE FOUND
 - IRON PIN AND CAP SET
 - POWER POLE
 - WATER METER
 - CENTERLINE
 - WELL
 - SATELLITE DISH
 - TELEPHONE BOX
 - ELECTRIC LINES
 - WIRE FENCE
 - CHAIN LINK FENCE
 - WOODEN FENCE



CERTIFIED TO:

DONALD HARRIS

FIELD BOOK, SEE PAGE(S), FILE

LENDER
TITLE
INSURANCE

SURVEYOR'S CERTIFICATION

I HEREBY CERTIFY THAT THIS SURVEY WAS MADE UNDER MY RESPONSIBLE CHARGE AND MEETS THE MINIMUM TECHNICAL STANDARDS AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 60G17-6, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472027, FLORIDA STATUTES.

02/08/05

FIELD SURVEY DATE

02/17/05

DRAWING DATE

L. SCOTT BRITT, P.S.M.
CERTIFICATION # 5757
NOTE: UNLESS IT BEARS THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER THIS DRAWING, SKETCH, PLAT OR MAP IS FOR INFORMATIONAL PURPOSES ONLY AND IS NOT VALID.



BRITT SURVEYING

LAND SURVEYORS AND MAPPERS

830 WEST DUVAL STREET LAKE CITY, FLORIDA 32055
(386)752-7163 FAX (386)752-5573

WORK ORDER # L-15777