

DATE 06/07/2007

Columbia County Building Permit

PERMIT

This Permit Expires One Year From the Date of Issue

000025899

APPLICANT JOHN BRENNAN PHONE 755-2208
ADDRESS 11824 N US HIGHWAY 441 LAKE CITY FL 32055
OWNER JOHN BRENNAN PHONE 755-2208
ADDRESS 11824 N US HIGHWAY 441 LAKE CITY FL 32055
CONTRACTOR OWNER BUILDER PHONE _____
LOCATION OF PROPERTY 441N, 10 MILES PAST I-10 ON THE LEFT JUST BEFORE THE
COMMUNITY CENTER
TYPE DEVELOPMENT ADD. TO SFD ESTIMATED COST OF CONSTRUCTION 30000.00
HEATED FLOOR AREA 289.00 TOTAL AREA 289.00 HEIGHT _____ STORIES _____
FOUNDATION _____ WALLS _____ ROOF PITCH _____ FLOOR _____
LAND USE & ZONING A-3 MAX. HEIGHT _____
Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00
NO. EX.D.U. 1 FLOOD ZONE X DEVELOPMENT PERMIT NO. _____

PARCEL ID 33-1S-17-04634-000 SUBDIVISION _____
LOT _____ BLOCK _____ PHASE _____ UNIT _____ TOTAL ACRES 4.00

Culvert Permit No. _____ Culvert Waiver _____ Contractor's License Number _____ Applicant/Owner/Contractor *John J. Brennan*
EXISTING 04-423 BK JH N
Driveway Connection _____ Septic Tank Number _____ LU & Zoning checked by _____ Approved for Issuance _____ New Resident _____

COMMENTS: ONE FOOT ABOVE THE ROAD

Check # or Cash 116

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power _____ Foundation _____ Monolithic _____
date/app. by _____ date/app. by _____ date/app. by _____
Under slab rough-in plumbing _____ Slab _____ Sheathing/Nailing _____
date/app. by _____ date/app. by _____ date/app. by _____
Framing _____ Rough-in plumbing above slab and below wood floor _____
date/app. by _____ date/app. by _____
Electrical rough-in _____ Heat & Air Duct _____ Peri. beam (Lintel) _____
date/app. by _____ date/app. by _____ date/app. by _____
Permanent power _____ C.O. Final _____ Culvert _____
date/app. by _____ date/app. by _____ date/app. by _____
M/H tie downs, blocking, electricity and plumbing _____ Pool _____
date/app. by _____ date/app. by _____
Reconnection _____ Pump pole _____ Utility Pole _____
date/app. by _____ date/app. by _____ date/app. by _____
M/H Pole _____ Travel Trailer _____ Re-roof _____
date/app. by _____ date/app. by _____ date/app. by _____

BUILDING PERMIT FEE \$ 150.00 CERTIFICATION FEE \$ 1.45 SURCHARGE FEE \$ 1.45
MISC. FEES \$ 0.00 ZONING CERT. FEE \$ 50.00 FIRE FEE \$ 0.00 WASTE FEE \$ _____
FLOOD DEVELOPMENT FEE \$ _____ FLOOD ZONE FEE \$ _____ CULVERT FEE \$ _____ TOTAL FEE 202.90
INSPECTORS OFFICE *John J. Brennan* CLERKS OFFICE *CH*

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

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

This Permit Must Be Prominently Posted on Premises During Construction

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

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

C# 116
Columbia County Building Permit Application

For Office Use Only Application # 0705-54 Date Received 5/22/07 By LH Permit # 25899
 Application Approved by - Zoning Official BLK Date 30.05.07 Plans Examiner OK JTH Date 5-22-07
 Flood Zone X Development Permit N/A Zoning A-3 Land Use Plan Map Category A-3
 Comments Section 2.3.1 Legal Abn. Conting. Lot of Record Existing well & SFD
☐ NOC ☒ EH ☐ Deed or PA ☒ Site Plan ☒ State Road Info ☐ Parent Parcel # ☐ Development Permit
 Name Authorized Person Signing Permit John Brennan Phone _____
 Address 11824 N US Hwy 441 Lake City FL 32056
 Owners Name SAME Phone 386-755-2208
 911 Address SAME
 Contractors Name Owner Phone _____
 Address _____
 Fee Simple Owner Name & Address _____
 Bonding Co. Name & Address N/A
 Architect/Engineer Name & Address William Myers PO Box 1513 Lake City FL 32056
 Mortgage Lenders Name & Address N/A
 Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Energy
 Property ID Number 33-15-17-04634-0000 HA Estimated Cost of Construction 30,000
 Subdivision Name N/A Lot _____ Block _____ Unit _____ Phase _____
 Driving Directions 441 N 10 miles from I-10 House just before Community Center on Left
 Type of Construction Add. Home SFD Number of Existing Dwellings on Property 1
 Total Acreage 4.0 AC Lot Size _____ Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive
 Actual Distance of Structure from Property Lines - Front 53' Side 116' Side 26' 4" + Rear 414.1' +
 Total Building Height 18' 8" Number of Stories 1 Heated Floor Area 289 Roof Pitch 7/12
 TOTAL 391

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.

John Brennan
 Owner Builder or Authorized Person by Notarized Letter

STATE OF FLORIDA
 COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me
 this 22 day of May 2007.
 Personally known _____ or Produced Identification ☒



Contractor Signature _____
 Contractors License Number _____
 Competency Card Number _____
 NOTARY STAMP/SEAL

Laurie Hodson
 Notary Signature

@ CAM112M01	S	CamaUSA Appraisal System		Columbia County
5/22/2007 12:06		Legal Description Maintenance	35200	Land 001 *
Year T Property		Sel		AG 000
2007 R 33-1S-17-04634-000			49989	Bldg 001
11824 US HWY 441 N LAKE CITY			2573	Xfea 002
HX BRENNAN JOHN J			87762	TOTAL B*

1	COMM SW COR OF N1/2 OF NW1/4	OF SE1/4, RUN S 470.78 FT, W	2
3	23.02 FT TO W R/W US-441 FOR	POB, CONT W 500 FT, S 348.48	4
5	FT, E 500 FT TO W R/W US-441,	N 348.48 FT TO POB.	6
7	ORB 443-452, 802-2093,	812-1147, 888-001 THRU 006,	8
9	WD 1075-739. WD 1081-2044.		10
11			12
13			14
15			16
17			18
19			20
21			22
23			24
25			26
27			28

Mnt 5/09/2006 THRESA

F1=Task F3=Exit F4=Prompt F10=GoTo PgUp/PgDn F24=More

25899

ADD TO
11593

Notice of Treatment

Applicator: Florida Pest Control & Chemical Co. (www.flapest.com)

Address: 556 SE Bay Ave

City LAKE CITY Phone 782-1703

Site Location: Subdivision Columbus County

Lot # Block# Permit # 25899

Address 11824 N US Hwy 44/20 L.C.

Product used	Active Ingredient	% Concentration
--------------	-------------------	-----------------

<input checked="" type="checkbox"/> Premise	Imidacloprid	0.1%
---	--------------	------

<input type="checkbox"/> Termidor	Fipronil	0.12%
-----------------------------------	----------	-------

<input type="checkbox"/> Bora-Care	Disodium Octaborate Tetrahydrate	23.0%
------------------------------------	----------------------------------	-------

Type treatment:

☒ Soil☐ Wood

Area Treated	Square feet	Linear feet	Gallons Applied
--------------	-------------	-------------	-----------------

Piers		60	20 gals

As per Florida Building Code 104.2.6 – If soil chemical barrier method for termite prevention is used, final exterior treatment shall be completed prior to final building approval.

If this notice is for the final exterior treatment, initial this line _____.

7-19-07

Date

10:20

Time

F299

Print Technician's Name

Remarks: _____

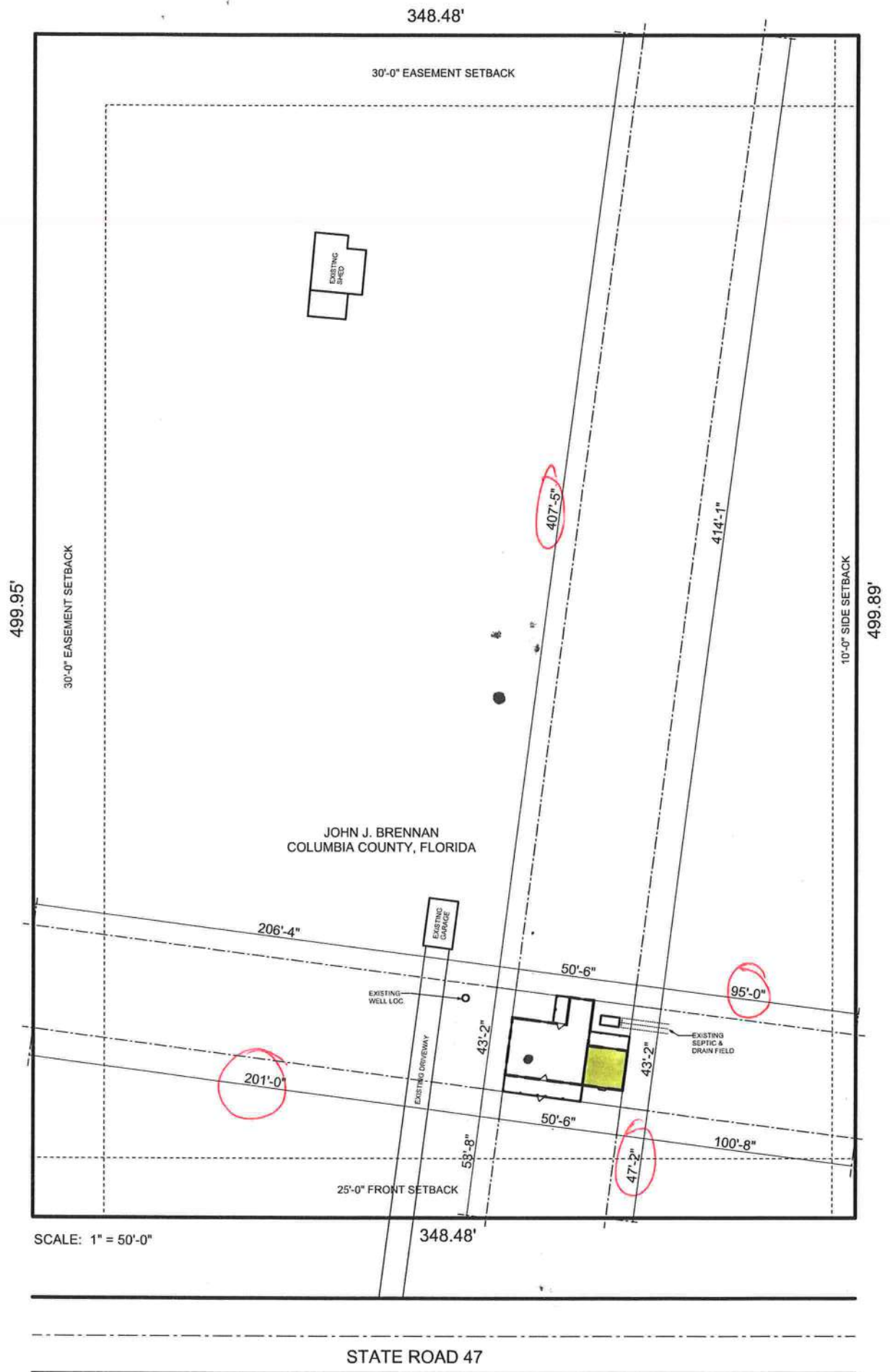
Applicator - White

Permit File - Canary

Permit Holder - Pink

10/05

©



NOTORIZED DISCLOSURE STATEMENT

FOR OWNER/BUILDER WHEN ACTING AS THEIR OWN CONTRACTOR AND CLAIMING EXEMPTION OF CONTRACTOR LICENSING REQUIREMENTS IN ACCORDANCE WITH FLORIDA STATUTES, ss. 489.103(7).

State law requires construction to be done by licensed contractors. You have applied for a permit under an exemption to that law. The exemption allows you, as the owner of your property, to act as your own contractor with certain restrictions even though you do not have a license. You must provide direct, onsite supervision of the construction yourself. You may build or improve a one-family or two-family residence or a farm outbuilding. You may also build or improve a commercial building, provided your costs do not exceed \$75,000. The building or residence must be for your own use or occupancy. It may not be built or substantially improved for sale or lease. If you sell or lease a building you have built or substantially improved yourself within 1 year after the construction is complete, the law will presume that you built or substantially improved it for sale or lease, which is a violation of this exemption. You may not hire an unlicensed person to act as your contractor or to supervise people working on your building. It is your responsibility to make sure that people employed by you have licenses required by state law and by county or municipal licensing ordinances. You may not delegate the responsibility for supervising work to a licensed contractor who is not licensed to perform the work being done. Any person working on your building who is not licensed must work under your direct supervision and must be employed by you, which means that you must deduct F.I.C.A. and withholding tax and provide workers' compensation for that employee, all as prescribed by law. Your construction must comply with all applicable laws, ordinances, building codes, and zoning regulations.

TYPE OF CONSTRUCTION

- ☒ Single Family Dwelling
☐ Farm Outbuilding

- ☐ Two-Family Residence
☒ Other Addition SPD

NEW CONSTRUCTION OR IMPROVEMENT

- ☐ New Construction

- ☐ Addition, Alteration, Modification or other Improvement

I John Brennan, have been advised of the above disclosure statement for exemption from contractor licensing as an owner/builder. I agree to comply with all requirements provided for in Florida Statutes ss.489.103(7) allowing this exception for the construction permitted by Columbia County Building Permit Number _____

John J. Brennan 5-22-07
Owner/Builder Signature Date

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



Notary Signature Laurie Hodson Date 5-22-07

(Stamp / Seal)

FOR BUILDING USE ONLY

I hereby certify that the above listed owner/builder has been notified of the disclosure statement in Florida Statutes ss 489.103(7).

Date _____ Building Official/Representative _____

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

BRENNAN/CR 06-3972

Existing mound

Occupied >75' to well

500'

5'

160' to road Swale @ road

115'

72' solid pipe

Waterline

Shed

House

Site 1

33'

Site 2

50'

Existing well

52'

No slope

Garage

Drive

Occupied >75' to well

Occupied >75' to well

210'

210'

1 inch = 40 feet

TBM is nail in 8" oak

North

Notes:

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

Project Name: **Ruben Thomas**
Address:
City, State: **Columbia, FL 32025-**
Owner: **remodel**
Climate Zone: **North**

Builder: **HTI Const. & Supervision**
Permitting Office: **Columbia**
Permit Number:
Jurisdiction Number: **221000**

1. New construction or existing Addition ☐
2. Single family or multi-family Single family ☐
3. Number of units, if multi-family 1 ☐
4. Number of Bedrooms 1 ☐
5. Is this a worst case? No ☐
6. Conditioned floor area (ft²) 289 ft² ☐
7. Glass type¹ and area: (Label reqd. by 13-104.4.5 if not default)
 - a. U-factor: Description Area
(or Single or Double DEFAULT) 7a(Sngle Default) 70.0 ft² ☐
 - b. SHGC:
(or Clear or Tint DEFAULT) 7b. (Clear) 70.0 ft² ☐
8. Floor types
 - a. Slab-On-Grade Edge Insulation R=5.0, 68.0(p) ft ☐
 - b. N/A ☐
 - c. N/A ☐
9. Wall types
 - a. Frame, Wood, Exterior R=13.0, 338.0 ft² ☐
 - b. Frame, Wood, Adjacent R=13.0, 116.0 ft² ☐
 - c. N/A ☐
 - d. N/A ☐
 - e. N/A ☐
10. Ceiling types
 - a. Under Attic R=30.0, 289.0 ft² ☐
 - b. N/A ☐
 - c. N/A ☐
11. Ducts(Leak Free)
 - a. Sup: Unc. Ret: Unc. AH: Attic Sup. R=6.0, 20.0 ft ☐
 - b. N/A ☐

12. Cooling systems
 - a. Central Unit Cap: 11.0 kBtu/hr
SEER: 12.00 ☐
 - b. N/A ☐
 - c. N/A ☐
13. Heating systems
 - a. Electric Heat Pump Cap: 11.0 kBtu/hr
HSPF: 12.00 ☐
 - b. N/A ☐
 - c. N/A ☐
14. Hot water systems
 - a. Electric Resistance Cap: 50.0 gallons
EF: 0.90 ☐
 - b. N/A ☐
 - c. Conservation credits
(HR-Heat recovery, Solar
DHP-Dedicated heat pump) ☐
15. HVAC credits PT, ☐

(CF-Ceiling fan, CV-Cross ventilation,
HF-Whole house fan,
PT-Programmable Thermostat,
MZ-C-Multizone cooling,
MZ-H-Multizone heating)

Glass/Floor Area: 0.24

Total as-built points: 5397

Total base points: 5979

PASS

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

PREPARED BY: *[Signature]*

DATE: 4-27-07

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

OWNER/AGENT: _____

DATE: _____

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

BUILDING OFFICIAL: _____

DATE: _____



¹ Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.

SUMMER CALCULATIONS**Residential Whole Building Performance Method A - Details**

ADDRESS: , Columbia, FL, 32025-

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	289.0	20.04	1042.5	Single, Clear	N	6.5	8.0	40.0	21.73	0.74	645.2		
				Single, Clear	E	1.5	8.0	30.0	47.92	0.96	1376.6		
				As-Built Total:			70.0			2021.8			
WALL TYPES Area X BSPM = Points				Type	R-Value		Area X SPM = Points						
Adjacent	116.0	0.70	81.2	Frame, Wood, Exterior	13.0		338.0	1.50	507.0				
Exterior	338.0	1.70	574.6	Frame, Wood, Adjacent	13.0		116.0	0.60	69.6				
Base Total:				As-Built Total:			454.0			576.6			
DOOR TYPES Area X BSPM = Points				Type	R-Value		Area X SPM = Points						
Adjacent	20.0	1.60	32.0	Adjacent Insulated			20.0	1.60	32.0				
Exterior	0.0	0.00	0.0										
Base Total:				As-Built Total:			20.0			32.0			
CEILING TYPES Area X BSPM = Points				Type	R-Value		Area X SPM X SCM = Points						
Under Attic	289.0	1.73	500.0	Under Attic	30.0		289.0	1.73 X 1.00	500.0				
Base Total:				As-Built Total:			289.0			500.0			
FLOOR TYPES Area X BSPM = Points				Type	R-Value		Area X SPM = Points						
Slab	68.0(p)	-37.0	-2516.0	Slab-On-Grade Edge Insulation	5.0		68.0(p)	-36.20	-2461.6				
Raised	0.0	0.00	0.0										
Base Total:				As-Built Total:			68.0			-2461.6			
INFILTRATION Area X BSPM = Points							Area X SPM = Points						
289.0 10.21 2950.7							289.0 10.21 2950.7						
Summer Base Points: 2664.9				Summer As-Built Points:			3619.4						
Total Summer Points	X	System Multiplier	= Cooling Points	Total Component (System - Points)	X	Cap Ratio (DM x DSM x AHU)	X	Duct Multiplier	X	System Multiplier	X	Credit Multiplier	= Cooling Points
2664.9		0.4266	1136.9	3619.4	1.00	(1.09 x 1.000 x 1.11)	0.284	0.950				1183.2	
				3619.4	1.00	1.210	0.284	0.950	1183.2				

WINTER CALCULATIONS**Residential Whole Building Performance Method A - Details**

ADDRESS: , Columbia, FL, 32025-

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	289.0	12.74	662.7	Single, Clear	N	6.5	8.0	40.0	33.22	1.02	1349.8
				Single, Clear	E	1.5	8.0	30.0	26.41	1.02	808.0
				As-Built Total:			70.0		2157.8		
WALL TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Adjacent	116.0	3.60	417.6	Frame, Wood, Exterior		13.0	338.0	3.40	1149.2		
Exterior	338.0	3.70	1250.6	Frame, Wood, Adjacent		13.0	116.0	3.30	382.8		
Base Total:				454.0		1668.2		As-Built Total:		454.0 1532.0	
DOOR TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Adjacent	20.0	8.00	160.0	Adjacent Insulated			20.0	8.00	160.0		
Exterior	0.0	0.00	0.0								
Base Total:				20.0		160.0		As-Built Total:		20.0 160.0	
CEILING TYPES Area X BWPM = Points				Type	R-Value		Area X WPM X WCM = Points				
Under Attic	289.0	2.05	592.5	Under Attic		30.0	289.0	2.05 X 1.00	592.5		
Base Total:				289.0		592.5		As-Built Total:		289.0 592.5	
FLOOR TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Slab	68.0(p)	8.9	605.2	Slab-On-Grade Edge Insulation		5.0	68.0(p)	7.60	516.8		
Raised	0.0	0.00	0.0								
Base Total:				605.2		516.8		As-Built Total:		68.0 516.8	
INFILTRATION Area X BWPM = Points								Area X WPM = Points			
289.0 -0.59 -170.5								289.0 -0.59 -170.5			
Winter Base Points: 3518.1				Winter As-Built Points: 4788.6							
Total Winter X System = Heating Points Multiplier Points				Total X Cap X Duct X System X Credit = Heating Component Ratio Multiplier Multiplier Multiplier Points (System - Points) (DM x DSM x AHU)							
3518.1 0.6274 2207.2				(sys 1: Electric Heat Pump 11000 btuh ,EFF(12.0) Ducts:Unc(S),Unc(R),Att(AH),R6.0 4788.6 1.000 (1.069 x 1.000 x 1.10) 0.284 0.950 1520.1 4788.6 1.00 1.176 0.284 0.950 1520.1							

WATER HEATING & CODE COMPLIANCE STATUS**Residential Whole Building Performance Method A - Details**

ADDRESS: , Columbia, FL, 32025-

PERMIT #:

BASE				AS-BUILT					
WATER HEATING									
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X Tank Ratio	X Multiplier	X Credit Multiplier = Total
1		2635.00	2635.0	50.0	0.90	1	1.00	2693.56	1.00 2693.6
				As-Built Total:					2693.6

CODE COMPLIANCE STATUS

BASE					AS-BUILT				
Cooling Points	+	Heating Points	+	Hot Water Points = Total Points	Cooling Points	+	Heating Points	+	Hot Water Points = Total Points
1137		2207		2635 5979	1183		1520		2694 5397

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: , Columbia, FL, 32025-

PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	606.1.ABC.1.1	Maximum: .3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	
Exterior & Adjacent Walls	606.1.ABC.1.2.1	Caulk, gasket, weatherstrip or seal between: windows/doors & frames, surrounding wall; foundation & wall sole or sill plate; joints between exterior wall panels at corners; utility penetrations; between wall panels & top/bottom plates; between walls and floor. EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate.	
Floors	606.1.ABC.1.2.2	Penetrations/openings >1/8" sealed unless backed by truss or joint members. EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.	
Ceilings	606.1.ABC.1.2.3	Between walls & ceilings; penetrations of ceiling plane of top floor; around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate; attic access. EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams.	
Recessed Lighting Fixtures	606.1.ABC.1.2.4	Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation; or Type IC rated with < 2.0 cfm from conditioned space, tested.	
Multi-story Houses	606.1.ABC.1.2.5	Air barrier on perimeter of floor cavity between floors.	
Additional Infiltration reqts	606.1.ABC.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	

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

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	612.1	Comply with efficiency requirements in Table 612.1.ABC.3.2. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	612.1	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%.	
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	604.1, 602.1	Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

Tested sealed ducts must be certified in this house.

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 85.0

The higher the score, the more efficient the home.

remodel, , Columbia, FL, 32025-

1. New construction or existing	Addition	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 11.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 12.00
4. Number of Bedrooms	1	b. N/A	
5. Is this a worst case?	No	c. N/A	
6. Conditioned floor area (ft ²)	289 ft ²		
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)		13. Heating systems	
a. U-factor:	Description Area	a. Electric Heat Pump	Cap: 11.0 kBtu/hr
(or Single or Double DEFAULT) 7a(Sngle Default)	70.0 ft ²		HSPF: 12.00
b. SHGC:		b. N/A	
(or Clear or Tint DEFAULT) 7b. (Clear)	70.0 ft ²	c. N/A	
8. Floor types		14. Hot water systems	
a. Slab-On-Grade Edge Insulation	R=5.0, 68.0(p) ft	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, 338.0 ft ²	(HR-Heat recovery, Solar	
b. Frame, Wood, Adjacent	R=13.0, 116.0 ft ²	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, 289.0 ft ²	MZ-C-Multizone cooling,	
b. N/A		MZ-H-Multizone heating)	
c. N/A			
11. Ducts(Leak Free)			
a. Sup: Unc. Ret: Unc. AH: Attic	Sup. R=6.0, 20.0 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: John J. Brown

Date: 5-22-07

Address of New Home: 11824 N. US 441

City/FL Zip: LAKE CITY FL 32055



*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.

¹ Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.
EnergyGauge® (Version: FLRCPB v4.1)

Energy Code Compliance

Duct System Performance Report

Project Name: Ruben Thomas Address: City, State: Columbia, FL 32025- Owner: remodel Climate Zone: North	Builder: HTI Const. & Supervision Permitting Office: Permit Number: Jurisdiction Number:
---	---

Total Duct System Leakage Test Results

CFM25 Total Duct Leakage Test Values			
Line	System	Duct Leakage Total	Duct Leakage to Outdoors
1	System1	_____ cfm25(tot)	_____ cfm25(out)
2	System2	_____ cfm25(tot)	_____ cfm25(out)
3	System3	_____ cfm25(tot)	_____ cfm25(out)
4	System4	_____ cfm25(tot)	_____ cfm25(out)
5	Total House Duct System Leakage	Sum lines 1-4 _____ Divide by _____ (Total Conditioned Floor Area) = _____ (Q _{n,tot}) <input type="checkbox"/> Receive credit if Q _{n,tot} ≤ 0.03	Sum lines 1-4 _____ Divide by _____ (Total Conditioned Floor Area) = _____ (Q _{n,out}) <input type="checkbox"/> Receive credit if Q _{n,out} ≤ 0.03 AND Q _{n,tot} ≤ 0.09

I hereby certify that the above duct testing performance results demonstrate compliance with the Florida Energy Code requirements in accordance with Section 610.1.A.1, Florida Building Code, Building Volume, Chapter 13 for leak free duct system credit.

Signature: _____
Printed Name: _____
Florida Rater Certification #: _____
DATE: _____

Florida Building Code requires that testing to confirm leak free duct systems be performed by a Class 1 Florida Energy Gauge Certified Energy Rater. Certified Florida Class 1 raters can be found at: <http://energygauge.com/search.htm>



BUILDING OFFICIAL: _____
DATE: _____

NOTICE OF COMMENCEMENT FORM
COLUMBIA COUNTY, FLORIDA

THIS DOCUMENT MUST BE RECORDED AT THE COUNTY
CLERKS OFFICE BEFORE YOUR FIRST INSPECTION

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

IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

Tax Parcel ID Number 33-15-17-04634-0000 ^{HX} Permit Number _____

1. Description of property: (legal description of the property and street address or 911 address)

Apartment of E 1/2 of SW 1/4 section 33 Township 1
South Range 17 East Columbia County Florida
11824 N US Hwy 441 Lake City FL 32055

2. General description of improvement: _____

3. Owner Name & Address John Brennan
Interest in Property _____

4. Name & Address of Fee Simple Owner (if other than owner): _____

5. Contractor Name Owner John Brennan Phone Number _____
Address _____

6. Surety Holders Name N/A Phone Number _____
Address _____

Amount of Bond N/A Inst: 2007011415 Date: 05/22/2007 Time: 12:25
DC, P. DeWitt Cason, Columbia County B: 1119 P: 2540

7. Lender Name N/A
Address _____

8. Persons within the State of Florida designated by the Owner upon whom notices or other documents may be served as provided by section 718.13 (1)(a) 7; Florida Statutes:

Name Ruben Thomas Phone Number 386-752-1586
Address PO Box 2454 Lake City FL 32055

9. In addition to himself/herself the owner designates _____ of _____
to receive a copy of the Lien Notice as provided in Section 713.13 (1) -

(a) 7. Phone Number of the designee _____

10. Expiration date of the Notice of Commencement (the expiration date is 1 (one) year from the date of recording, (Unless a different date is specified) _____

THE OWNER MUST SIGN THE NOTICE OF COMMENCEMENT AND NO ONE ELSE MAY BE PERMITTED TO SIGN IN HIS/HER STEAD.



John Brennan
Signature of Owner

Sworn to (or affirmed) and subscribed before day of 5-22, 2007.

Laurie Hodson
Signature of Notary NOTARY STAMP/SEAL

25897

COLUMBIA COUNTY BUILDING DEPARTMENT

Revised 10-01-05

RESIDENTIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST FOR FLORIDA BUILDING CODE 2004 and FLORIDA RESIDENTIAL CODE 2004 WITH AMENDMENTS ONE (1) AND TWO (2) FAMILY DWELLINGS

ALL REQUIREMENTS ARE SUBJECT TO CHANGE
EFFECTIVE OCTOBER 1, 2005

ALL BUILDING PLANS MUST INDICATE THE FOLLOWING ITEMS AND INDICATE COMPLIANCE WITH CHAPTER 16 OF THE FLORIDA BUILDING CODE 2004 BY PROVIDING CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION FOR ONE-AND-TWO FAMILY DWELLINGS. FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEED AS PER FIGURE 1609 SHALL BE USED.

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

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

APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

GENERAL REQUIREMENTS: Two (2) complete sets of plans containing the following:

Applicant	Plans Examiner	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	All drawings must be clear, concise and drawn to scale ("Optional " details that are not used shall be marked void or crossed off). Square footage of different areas shall be shown on plans.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Designers name and signature on document (FBC 106.1). If licensed architect or engineer, official seal shall be affixed.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Site Plan including: a) Dimensions of lot b) Dimensions of building set backs c) Location of all other buildings on lot, well and septic tank if applicable, and all utility easements. d) Provide a full legal description of property.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Wind-load Engineering Summary, calculations and any details required Plans or specifications must state compliance with FBC Section 1609. The following information must be shown as per section 1603.1.4 FBC a. Basic wind speed (3-second gust), miles per hour (km/hr). b. Wind importance factor, I_w , and building classification from Table 1604.5 or Table 6-1, ASCE 7 and building classification in Table 1-1, ASCE 7. c. Wind exposure, if more than one wind exposure is utilized, the wind exposure and applicable wind direction shall be indicated. d. The applicable enclosure classifications and, if designed with ASCE 7, internal pressure coefficient. e. Components and Cladding. The design wind pressures in terms of psf (kN/m ²) to be used for the design of exterior component and cladding materials not specifiably designed by the registered design professional.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Elevations including: a) All sides b) Roof pitch c) Overhang dimensions and detail with attic ventilation
<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	

- ☐ ☐
- ☐ ☐
- ☒ ☐
- ☒ ☐

- d) Location, size and height above roof of chimneys.
- e) Location and size of skylights
- f) Building height
- e) Number of stories

Floor Plan including:

- ☒ ☐
- ☒ ☐
- ☒ ☐

- a) Rooms labeled and dimensioned.
- b) Shear walls identified.
- c) Show product approval specification as required by Fla. Statute 553.842 and Fla. Administrative Code 9B-72 (see attach forms).
- d) Show safety glazing of glass, where required by code.
- e) Identify egress windows in bedrooms, and size.
- f) Fireplace (gas vented), (gas non-vented) or wood burning with hearth, (Please circle applicable type).

- ☐ ☐
- ☐ ☐
- ☐ ☐

- g) Stairs with dimensions (width, tread and riser) and details of guardrails and handrails.

- ☐ ☐

- h) Must show and identify accessibility requirements (accessible bathroom)

- ☐ ☐

Foundation Plan including:

- ☒ ☐

- a) Location of all load-bearing wall with required footings indicated as standard or monolithic and dimensions and reinforcing.

- ☒ ☐

- b) All posts and/or column footing including size and reinforcing

- ☐ ☐

- c) Any special support required by soil analysis such as piling

- ☐ ☐

- d) Location of any vertical steel.

Roof System:

- ☐ ☐

- a) Truss package including:

1. Truss layout and truss details signed and sealed by Fl. Pro. Eng.
2. Roof assembly (FBC 106.1.1.2) Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)

- ☒ ☐

- b) Conventional Framing Layout including:

1. Rafter size, species and spacing
2. Attachment to wall and uplift
3. Ridge beam sized and valley framing and support details
4. Roof assembly (FBC 106.1.1.2) Roofing systems, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)

Wall Sections including:

- ☒ ☐

- a) Masonry wall

1. All materials making up wall
2. Block size and mortar type with size and spacing of reinforcement
3. Lintel, tie-beam sizes and reinforcement
4. Gable ends with rake beams showing reinforcement or gable truss and wall bracing details
5. All required connectors with uplift rating and required number and size of fasteners for continuous tie from roof to foundation shall be designed by a Windload engineer using the engineered roof truss plans.
6. Roof assembly shown here or on roof system detail (FBC 106.1.1.2) Roofing system, materials, manufacturer, fastening requirements and product evaluation with resistance rating)
7. Fire resistant construction (if required)
8. Fireproofing requirements
9. Shoe type of termite treatment (termiteicide or alternative method)
10. Slab on grade
 - a. Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)
 - b. Must show control joints, synthetic fiber reinforcement or Welded fire fabric reinforcement and supports
11. Indicate where pressure treated wood will be placed
12. Provide insulation R value for the following:

- a. Attic space
- b. Exterior wall cavity
- c. Crawl space (if applicable)

☒

☐

b) Wood frame wall

1. All materials making up wall
2. Size and species of studs
3. Sheathing size, type and nailing schedule
4. Headers sized
5. Gable end showing balloon framing detail or gable truss and wall hinge bracing detail
6. All required fasteners for continuous tie from roof to foundation (truss anchors, straps, anchor bolts and washers) shall be designed by a Windload engineer using the engineered roof truss plans.
7. Roof assembly shown here or on roof system detail (FBC 106.1.1.2) Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)
8. Fire resistant construction (if applicable)
9. Fireproofing requirements
10. Show type of termite treatment (termiteicide or alternative method)
11. Slab on grade
 - a. Vapor retarder (6Mil. Polyethylene with joints lapped 6 inches and sealed
 - b. Must show control joints, synthetic fiber reinforcement or welded wire fabric reinforcement and supports
12. Indicate where pressure treated wood will be placed
13. Provide insulation R value for the following:
 - a. Attic space
 - b. Exterior wall cavity
 - c. Crawl space (if applicable)

☐

☐

c) Metal frame wall and roof (designed, signed and sealed by Florida Prof. Engineer or Architect)

Floor Framing System:

- a) Floor truss package including layout and details, signed and sealed by Florida Registered Professional Engineer
- b) Floor joist size and spacing
- c) Girder size and spacing
- d) Attachment of joist to girder
- e) Wind load requirements where applicable

Plumbing Fixture layout

Electrical layout including:

- a) Switches, outlets/receptacles, lighting and all required GFCI outlets identified
- b) Ceiling fans
- c) Smoke detectors
- d) Service panel and sub-panel size and location(s)
- e) Meter location with type of service entrance (overhead or underground)
- f) Appliances and HVAC equipment
- g) Arc Fault Circuits (AFCI) in bedrooms
- h) Exhaust fans in bathroom

HVAC information

- a) Energy Calculations (dimensions shall match plans)
- b) Manual J sizing equipment or equivalent computation
- c) Gas System Type (LP or Natural) Location and BTU demand of equipment

Disclosure Statement for Owner Builders

*****Notice Of Commencement Required Before Any Inspections Will Be Done Private Potable Water**

☒

☐

☒

☐

☒

☐

☒

☐

☒

☐

☒

☐

- a) Size of pump motor
- b) Size of pressure tank
- c) Cycle stop valve if used

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

1. **Building Permit Application:** A current Building Permit Application form is to be completed and submitted for all residential projects. ✓
2. **Parcel Number:** The parcel number (Tax ID number) from the Property Appraiser (386) 758-1084 is required. A copy of property deed is also requested. ✓
3. **Environmental Health Permit or Sewer Tap Approval:** A copy of the Environmental Health permit, existing septic approval or sewer tap approval is required before a building permit can be issued. (386) 758-1058 (Toilet facilities shall be provided for construction workers) ✓
4. **City Approval:** If the project is to be located within the city limits of the Town of Fort White, prior approval is required. The Town of Fort White approval letter is required to be submitted by the owner or contractor to this office when applying for a Building Permit. (386) 497-2321
5. **Flood Information:** All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting application to this office. Any project located within a flood zone where the base flood elevation (100 year flood) has been established shall meet the requirements of Section 8.8 of the Columbia County Land Development Regulations. Any project located within a flood zone where the base flood elevation has not been established (Zone A) shall meet the requirements of Section 8.7 of the Columbia County Land Development Regulations. **CERTIFIED FINISHED FLOOR ELEVATIONS WILL BE REQUIRED ON ANY PROJECT WHERE THE BASE FLOOD ELEVATION (100 YEAR FLOOD) HAS BEEN ESTABLISHED.**
A development permit will also be required. Development permit cost is \$50.00
6. **Driveway Connection:** If the property does not have an existing access to a public road, then an application for a culvert permit (\$25.00) must be made. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver (\$50.00). All culvert waivers are sent to the Columbia County Public Works Department for approval or denial. **If the project is to be located on a F.D.O.T. maintained road, than an F.D.O.T. access permit is required.**
7. **911 Address:** If the project is located in an area where the 911 address has been issued, then the proper paperwork from the 911 Addressing Department must be submitted. (386) 752-8787 ✓

ALL REQUIRED INFORMATION IS TO BE SUBMITTED FOR REVIEW. YOU WILL BE NOTIFIED WHEN YOUR APPLICATION AND PLANS ARE APPROVED AND READY TO PERMIT. PLEASE DO NOT EXPECT OR REQUEST THAT PERMIT APPLICATIONS BE REVIEWED OR APPROVED WHILE YOU ARE HERE – TIME WILL NOT ALLOW THIS – PLEASE DO NOT ASK

PRODUCT APPROVAL SPECIFICATION SHEET

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and approval numbers on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. Statewide approved products are listed online @ www.floridabuilding.org

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
1. EXTERIOR DOORS			
A. SWINGING			
B. SLIDING			
C. SECTIONAL/ROLL UP			
D. OTHER			
2. WINDOWS			
A. SINGLE/DOUBLE HUNG			
B. HORIZONTAL SLIDER			
C. CASEMENT			
D. FIXED			
E. MULLION			
F. SKYLIGHTS			
G. OTHER			
3. PANEL WALL			
A. SIDING			
B. SOFFITS			
C. STOREFRONTS			
D. GLASS BLOCK			
E. OTHER			
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES			
B. NON-STRUCT METAL			
C. ROOFING TILES			
D. SINGLE PLY ROOF			
E. OTHER			
5. STRUCT COMPONENTS			
A. WOOD CONNECTORS			
B. WOOD ANCHORS			
C. TRUSS PLATES			
D. INSULATION FORMS			
E. LINTELS			
F. OTHERS			
6. NEW EXTERIOR ENVELOPE PRODUCTS			
A.			

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


APPLICANT SIGNATURE

5-22-07
DATE



Columbia County 9-1-1 Addressing / GIS Department

P.O. Box 1787, Lake City, FL 32056

Telephone: (386) 758-1125 * Fax: (386) 758-1365 * E-mail: ron_croft@columbiacountyfla.com



9-1-1 Address Request Form

NOTE: ADDRESS ASSIGNMENT MAY REQUIRE UP TO 10 WORKING DAYS. IF THE ADDRESSING DEPARTMENT NEEDS TO CONDUCT ON SITE GPS LOCATION IDENTIFICATION, ADDITIONAL TIME MAY BE REQUIRED.

Date of Request: _____

Requester Last Name: _____

First Name: _____

Contact Telephone Number: _____

(Cell Phone Number if Provided): _____

Requested for Self: _____ or Requested for Company: _____
(check one)

If Address is Requested by a Company, Provide Name of Requesting Company:

Parcel Identification Number: _____ - _____ - _____ - _____

If in Subdivision, Provide Name Of Subdivision:

Phase or Unit Number (if any): _____ Block Number (if any): _____

Lot Number: _____

Attach Site Plan or you may use back of Request Form for Site Plan:

Requirements for Site Plan Are Listed on Back of Request From:
(NOTE: Site Plan Does NOT have to be a survey or to scale; FURTHER a Environmental Health Dept. Site Plan showing only a 210 by 210 cutout of a property will NOT suffice for Addressing Requirements.)

Addressing / GIS Department Use Only:

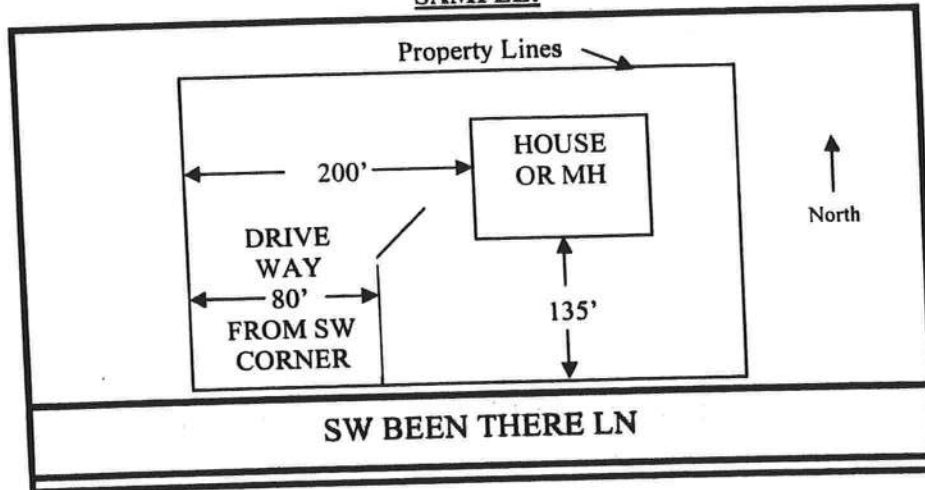
Date Received: _____

Date Assigned: _____

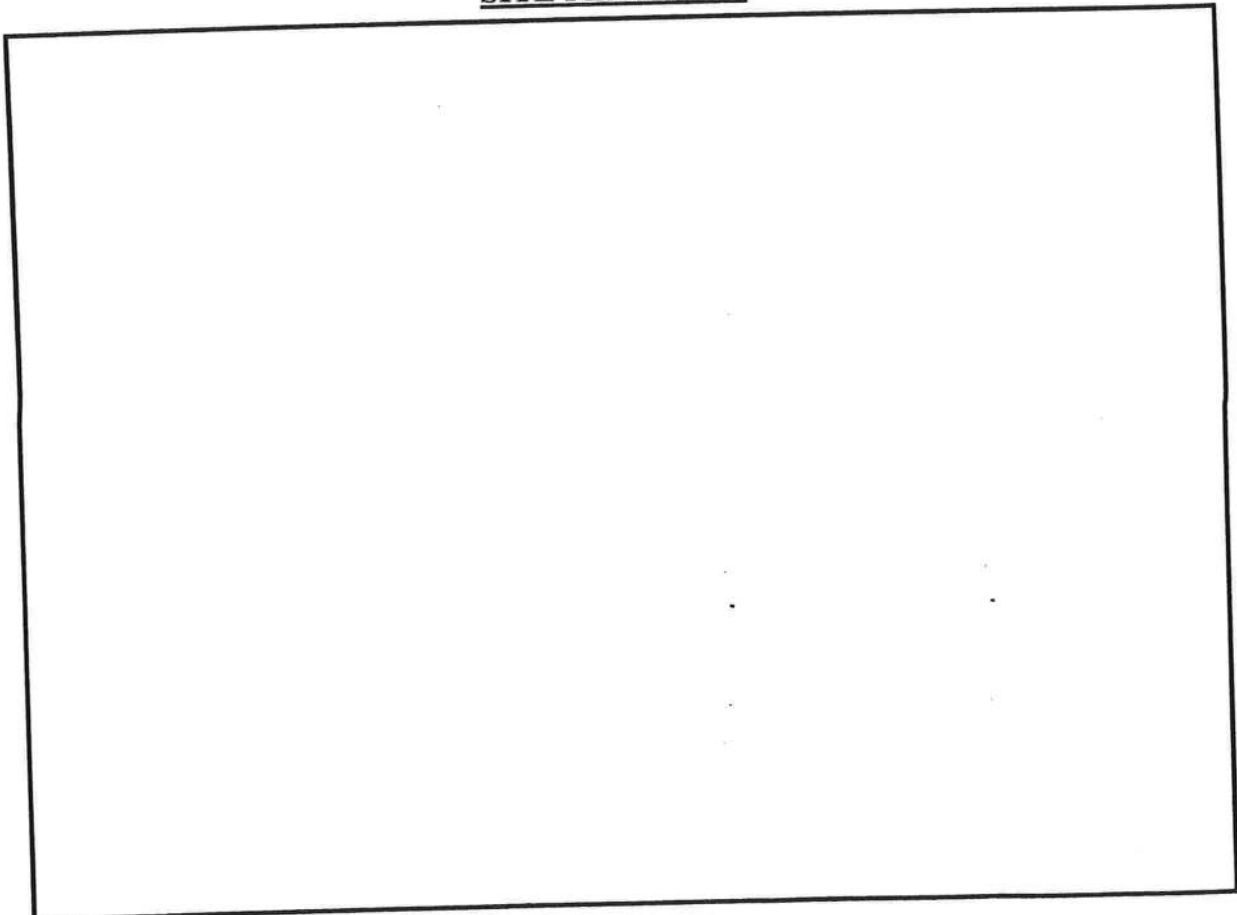
ID Number: _____

1. A PLAT, PLAN, OR DRAWING SHOWING THE PROPERTY LINES OF THE PARCEL.
2. LOCATION OF PLANNED RESIDENT OR BUSINESS STRUCTURE ON THE PROPERTY WITH DISTANCES FROM AT LEAST TWO OF THE PROPERTY LINES (SEE SAMPLE BELOW).
3. LOCATION OF THE ACCESS POINT (DRIVEWAY, ETC.) ON THE ROADWAY FROM WHICH LOCATION IS TO BE ADDRESSED WITH A DISTANCE FROM A PARALLEL PROPERTY LINE AND OR PROPERTY CORNER (SEE SAMPLE BELOW).
4. TRAVEL OF THE DRIVEWAY FROM THE ACCESS POINT TO THE STRUCTURE (SEE SAMPLE BELOW).

SAMPLE:



SITE PLAN BOX:



Residential System Sizing Calculation

Summary

remodel

Project Title:
Ruben Thomas

Columbia, FL 32025-

Code Only
Professional Version
Climate: North

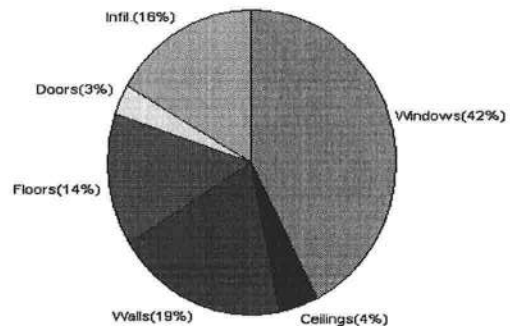
4/27/2007

Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)			
Winter design temperature	33 F	Summer design temperature	92 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	37 F	Summer temperature difference	17 F
Total heating load calculation	7741 Btuh	Total cooling load calculation	11091 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	142.1 11000	Sensible (SHR = 0.75)	85.0 8250
Heat Pump + Auxiliary(0.0kW)	142.1 11000	Latent	198.4 2750
		Total (Electric Heat Pump)	99.2 11000

WINTER CALCULATIONS

Winter Heating Load (for 289 sqft)

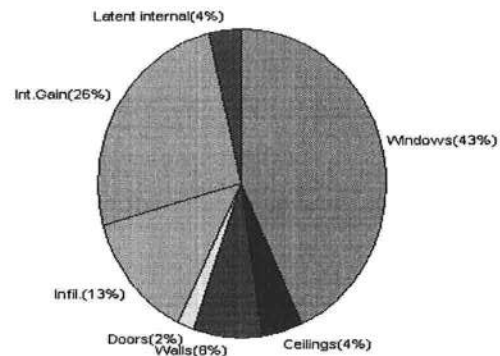
Load component	Load
Window total 70 sqft	3289 Btuh
Wall total 454 sqft	1491 Btuh
Door total 20 sqft	259 Btuh
Ceiling total 289 sqft	341 Btuh
Floor total 68 sqft	1112 Btuh
Infiltration 31 cfm	1249 Btuh
Duct loss	0 Btuh
Subtotal	7741 Btuh
Ventilation 0 cfm	0 Btuh
TOTAL HEAT LOSS	7741 Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 289 sqft)

Load component	Load
Window total 70 sqft	4788 Btuh
Wall total 454 sqft	880 Btuh
Door total 20 sqft	196 Btuh
Ceiling total 289 sqft	479 Btuh
Floor total	0 Btuh
Infiltration 27 cfm	502 Btuh
Internal gain	2860 Btuh
Duct gain	0 Btuh
Sens. Ventilation 0 cfm	0 Btuh
Total sensible gain	9705 Btuh
Latent gain(ducts)	0 Btuh
Latent gain(infiltration)	986 Btuh
Latent gain(ventilation)	0 Btuh
Latent gain(internal/occupants/other)	400 Btuh
Total latent gain	1386 Btuh
TOTAL HEAT GAIN	11091 Btuh



For Florida residences only

EnergyGauge® System Sizing

PREPARED BY:

DATE:

Ruben Thomas
4-27-07

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

remodel

Project Title:
Ruben Thomas

Code Only
Professional Version
Climate: North

Columbia, FL 32025-

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F

4/27/2007

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	1, Clear, Metal, 1.27	N	40.0	47.0	1880 Btuh
2	1, Clear, Metal, 1.27	E	30.0	47.0	1410 Btuh
	Window Total		70(sqft)		3289 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	338	3.3	1110 Btuh
2	Frame - Wood - Adj(0.09)	13.0	116	3.3	381 Btuh
	Wall Total		454		1491 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjacent		20	12.9	259 Btuh
	Door Total		20		259Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	289	1.2	341 Btuh
	Ceiling Total		289		341Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	5	68.0 ft(p)	16.4	1112 Btuh
	Floor Total		68		1112 Btuh
	Zone Envelope Subtotal:				6492 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.80	2312	30.8	1249 Btuh
Ductload	Proposed leak free, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)				0 Btuh
Zone #1	Sensible Zone Subtotal				7741 Btuh

WHOLE HOUSE TOTALS

	Subtotal Sensible	7741 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	7741 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

remodel

Project Title:
Ruben Thomas

Code Only
Professional Version
Climate: North

Columbia, FL 32025-

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear ()
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)

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



For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

remodel

Project Title:
Ruben Thomas

Code Only
Professional Version
Climate: North

Columbia, FL 32025-

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F

4/27/2007

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	1, Clear, Metal, 1.27	N	40.0		47.0	1880 Btuh
2	1, Clear, Metal, 1.27	E	30.0		47.0	1410 Btuh
	Window Total		70(sqft)			3289 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	338		3.3	1110 Btuh
2	Frame - Wood - Adj(0.09)	13.0	116		3.3	381 Btuh
	Wall Total		454			1491 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Adjacent		20		12.9	259 Btuh
	Door Total		20			259Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	289		1.2	341 Btuh
	Ceiling Total		289			341Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	5	68.0 ft(p)		16.4	1112 Btuh
	Floor Total		68			1112 Btuh
	Zone Envelope Subtotal:					6492 Btuh
Infiltration	Type	ACH	Zone Volume		CFM=	
	Natural	0.80	2312		30.8	1249 Btuh
Ductload	Proposed leak free, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)					0 Btuh
Zone #1	Sensible Zone Subtotal					7741 Btuh

WHOLE HOUSE TOTALS

	Subtotal Sensible	7741 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	7741 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

remodel

Project Title:
Ruben Thomas

Code Only
Professional Version
Climate: North

Columbia, FL 32025-

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear ()
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)

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



For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

remodel

Project Title:
Ruben Thomas

Code Only
Professional Version
Climate: North

Columbia, FL 32025-

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F

4/27/2007

Component Loads for Whole House

Window	Type*	Ornt	Overhang		Window Area(sqft)			HTM		Load	
	Pn/SHGC/U/InSh/ExSh/IS		Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	1, Clear, 1.27, None,N,N	N	6.5ft	8ft.	40.0	0.0	40.0	37	37	1498	Btuh
2	1, Clear, 1.27, None,N,N	E	1.5ft	8ft.	30.0	0.0	30.0	37	94	2821	Btuh
	Excursion									469	Btuh
	Window Total				70 (sqft)					4788	Btuh
Walls	Type		R-Value/U-Value		Area(sqft)		HTM		Load		
1	Frame - Wood - Ext		13.0/0.09		338.0		2.1		705 Btuh		
2	Frame - Wood - Adj		13.0/0.09		116.0		1.5		175 Btuh		
	Wall Total				454 (sqft)				880 Btuh		
Doors	Type				Area (sqft)		HTM		Load		
1	Insulated - Adjacent				20.0		9.8		196 Btuh		
	Door Total				20 (sqft)				196 Btuh		
Ceilings	Type/Color/Surface		R-Value		Area(sqft)		HTM		Load		
1	Vented Attic/DarkShingle		30.0		289.0		1.7		479 Btuh		
	Ceiling Total				289 (sqft)				479 Btuh		
Floors	Type		R-Value		Size		HTM		Load		
1	Slab On Grade		5.0		68 (ft(p))		0.0		0 Btuh		
	Floor Total				68.0 (sqft)				0 Btuh		
	Zone Envelope Subtotal:									6343 Btuh	
Infiltration	Type		ACH		Volume(cuft)		CFM=		Load		
	SensibleNatural		0.70		2312		27.0		502 Btuh		
Internal gain			Occupants		Btuh/occupant		Appliance		Load		
			2		X 230 +		2400		2860 Btuh		
Duct load	Proposed leak free, R6.0, Supply(Attic), Return(Attic) DGM = 0.00									0.0 Btuh	
	Sensible Zone Load									9705 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

remodel

Project Title:
Ruben Thomas

Code Only
Professional Version
Climate: North

Columbia, FL 32025-

4/27/2007

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	9705 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	9705 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	9705 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	986 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (2 people @ 200 Btuh per person)	400 Btuh
	Latent other gain	0 Btuh
	Latent total gain	1386 Btuh
	TOTAL GAIN	11091 Btuh

*Key: Window types (Pn - Number of panes of glass)
 (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(B), Draperies(D) or Roller Shades(R))
 (ExSh - Exterior shading device: none(N) or numerical value)
 (BS - Insect screen: none(N), Full(F) or Half(H))
 (Ornt - compass orientation)



For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

remodel

Project Title:
Ruben Thomas

Code Only
Professional Version
Climate: North

Columbia, FL 32025-

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F

4/27/2007

Component Loads for Zone #1: Main

Window	Type*	Ornt	Overhang		Window Area(sqft)			HTM		Load
	Pn/SHGC/U/InSh/ExSh/IS		Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded	
1	1, Clear, 1.27, None,N,N	N	6.5ft	8ft.	40.0	0.0	40.0	37	37	1498 Btuh
2	1, Clear, 1.27, None,N,N	E	1.5ft	8ft.	30.0	0.0	30.0	37	94	2821 Btuh
	Excursion									469 Btuh
	Window Total				70 (sqft)					4788 Btuh
Walls	Type		R-Value/U-Value		Area(sqft)		HTM		Load	
1	Frame - Wood - Ext		13.0/0.09		338.0		2.1		705 Btuh	
2	Frame - Wood - Adj		13.0/0.09		116.0		1.5		175 Btuh	
	Wall Total				454 (sqft)				880 Btuh	
Doors	Type				Area (sqft)		HTM		Load	
1	Insulated - Adjacent				20.0		9.8		196 Btuh	
	Door Total				20 (sqft)				196 Btuh	
Ceilings	Type/Color/Surface		R-Value		Area(sqft)		HTM		Load	
1	Vented Attic/DarkShingle		30.0		289.0		1.7		479 Btuh	
	Ceiling Total				289 (sqft)				479 Btuh	
Floors	Type		R-Value		Size		HTM		Load	
1	Slab On Grade		5.0		68 (ft(p))		0.0		0 Btuh	
	Floor Total				68.0 (sqft)				0 Btuh	
	Zone Envelope Subtotal:									6343 Btuh
Infiltration	Type		ACH		Volume(cuft)		CFM=		Load	
	SensibleNatural		0.70		2312		27.0		502 Btuh	
Internal gain			Occupants		Btuh/occupant		Appliance		Load	
			2		X 230 +		2400		2860 Btuh	
Duct load	Proposed leak free, R6.0, Supply(Attic), Return(Attic)							DGM = 0.00		0.0 Btuh
	Sensible Zone Load									9705 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

remodel

Project Title:
Ruben Thomas

Code Only
Professional Version
Climate: North

Columbia, FL 32025-

4/27/2007

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	9705 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	9705 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	9705 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	986 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (2 people @ 200 Btuh per person)	400 Btuh
	Latent other gain	0 Btuh
	Latent total gain	1386 Btuh
	TOTAL GAIN	11091 Btuh

*Key: Window types (Pn - Number of panes of glass)

(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(B), Draperies(D) or Roller Shades(R))

(ExSh - Exterior shading device: none(N) or numerical value)

(BS - Insect screen: none(N), Full(F) or Half(H))

(Ornt - compass orientation)



For Florida residences only

Residential Window Diversity

MidSummer

remodel

Project Title:
Ruben Thomas

Code Only
Professional Version
Climate: North

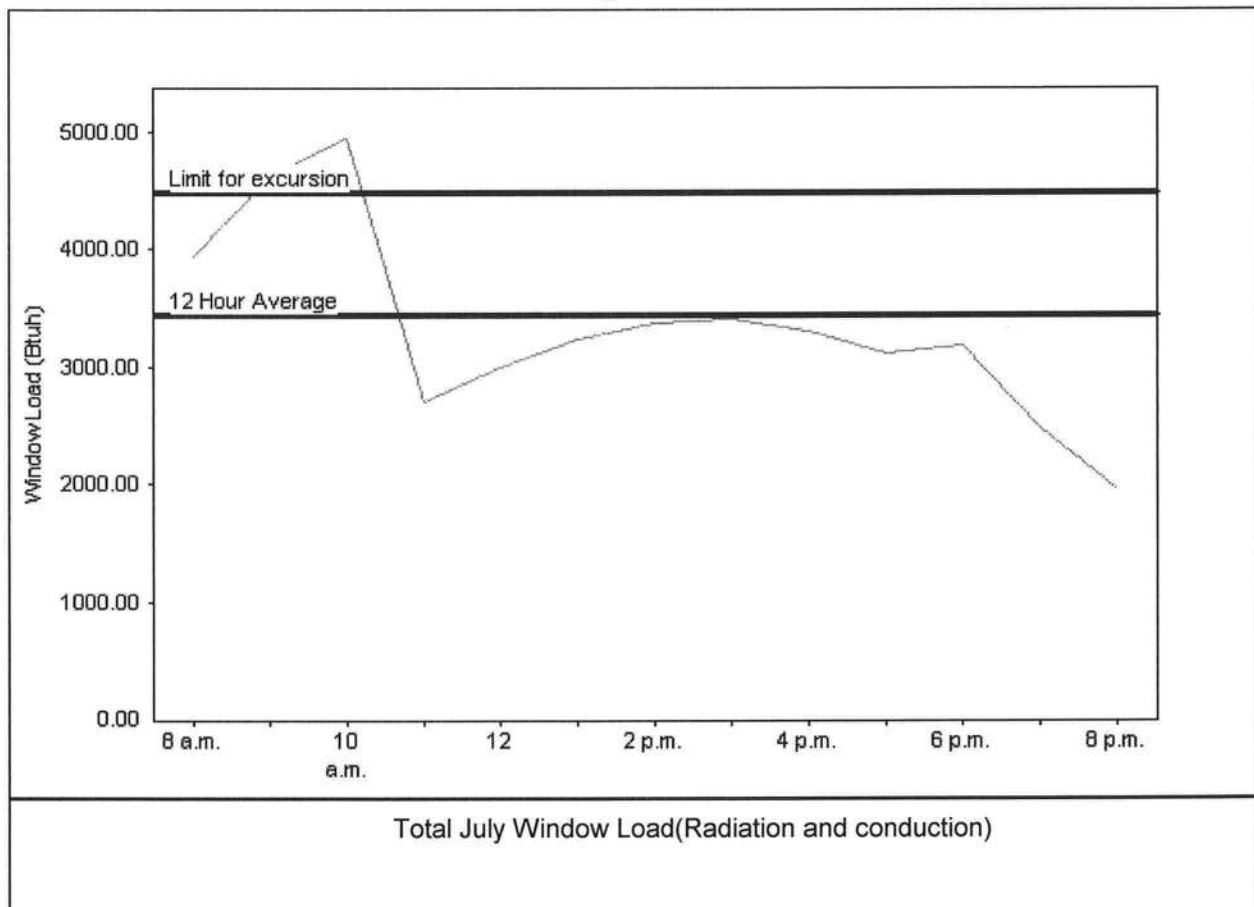
Columbia, FL 32025-

4/27/2007

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	3445 Btuh
Summer setpoint	75 F	Peak window load for July	4947 Btuh
Summer temperature difference	17 F	Excursion limit(130% of Ave.)	4478 Btuh
Latitude	29 North	Window excursion (July)	469 Btuh

WINDOW Average and Peak Loads



Warning: This application has glass areas that produce relatively large heat gains for part of the day. Variable air volume devices may be required to overcome spikes in solar gain for one or more rooms. A zoned system may be required or some rooms may require zone control.

EnergyGauge® System Sizing for Florida residences only

PREPARED BY: _____

DATE: _____



PRODUCT APPROVAL SPECIFICATION SHEET**Location:****Project Name:***Shirley Hilton*
365-1979

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

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
A. EXTERIOR DOORS			
1. Swinging	Johnson Entry	Steel Exterior Door	3026447A-001
2. Sliding			
3. Sectional			
4. Roll up			
5. Automatic			
6. Other			
B. WINDOWS			
1. Single hung	Capitol	Oriel - Aluminum windows	01-42963.01
2. Horizontal Slider	Capitol	Aluminum	01-41134.01
3. Casement	Capitol	Aluminum - Flange	01-48643.01
4. Double Hung	Cap-InSight	Cellular window	01-43343.01
5. Fixed	Cap-InSight	Cellular window	01-46201.01
6. Awning	Cap-InSight	Cellular window	01-45949.01
7. Pass-through Pw.	Capitol	Aluminum Pw	53437.01-122-47
8. Projected Horz Slider	Capitol	Aluminum - Fin (xo)	01-41134.01
9. Mullion Horz Slider	Capitol	Aluminum - Fin (xox)	01-47320.01
10. Wind Breaker			01-48643.01
11. Dual Action			
12. Other			
C. PANEL WALL			
1. Siding	Boise	Hardie-F1889/Weyer. - Cempanel F1889.2	
2. Soffits			
3. EIFS			
4. Storefronts			
5. Curtain walls			
6. Wall louver			
7. Glass block			
8. Membrane			
9. Greenhouse			
10. Other			
D. ROOFING PRODUCTS			
1. Asphalt Shingles	EIK	Arch Shingle	Astm D3462
2. Underlayments	Woodland	30# Roofing Felt	FL-1814
3. Roofing Fasteners	Senco		Rpm 3378
4. Non-structural Metal Rf	Whelley Corrugated	Centerdown 26ga Steel	FL 7518.1
5. Built-Up Roofing			
6. Modified Bitumen			
7. Single Ply Roofing Sys			
8. Roofing Tiles			
9. Roofing Insulation			
10. Waterproofing			
11. Wood shingles /shakes			
12. Roofing Slate			

PRODUCT APPROVAL SPECIFICATION SHEET*Shirley Wilson*
*365-1979***Location:****Project Name:**

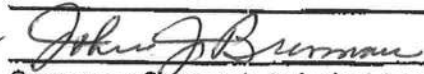
As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and the product approval number(s) on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit on or after April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

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
A. EXTERIOR DOORS	<i>Johnson</i>	<i>Steel Exterior Door</i>	<i>3026447A-001</i>
1. Swinging			
2. Sliding			
3. Sectional			
4. Roll up			
5. Automatic			
6. Other			
B. WINDOWS			
1. Single hung			
2. Horizontal Slider			
3. Casement			
4. Double Hung			
5. Fixed			
6. Awning			
7. Pass-through			
8. Projected			
9. Mullion			
10. Wind Breaker			
11. Dual Action			
12. Other			
C. PANEL WALL			
1. Siding			
2. Soffits			
3. EIFS			
4. Storefronts			
5. Curtain walls			
6. Wall louver			
7. Glass block			
8. Membrane			
9. Greenhouse			
10. Other			
D. ROOFING PRODUCTS			
1. Asphalt Shingles			
2. Underlayments			
3. Roofing Fasteners			
4. Non-structural Metal Rf			
5. Built-Up Roofing			
6. Modified Bitumen			
7. Single Ply Roofing Sys			
8. Roofing Tiles			
9. Roofing Insulation			
10. Waterproofing			
11. Wood shingles /shakes			
12. Roofing Slate			

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

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

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


Contractor or Contractor's Authorized Agent Signature

John J. Brennan
Print Name

5-22-07
Date

Location

Permit # (FOR STAFF USE ONLY)

FLORIDA DEPARTMENT OF
Community Affairs[BCIS Home](#) | [Log In](#) | [Hot Topics](#) | [Submit Surcharge](#) | [Stats & Facts](#) | [Publications](#) | [FBC Staff](#) | [B](#)**Product Approval**
USER: Public User[Product Approval Menu](#) > [Product or Application Search](#) > [Application List](#) > **Application Detail**

► COMMUNITY PLANNING

► HOUSING & COMMUNITY
DEVELOPMENT► EMERGENCY
MANAGEMENT► OFFICE OF THE
SECRETARY

FL #

FL7518

Application Type

New

Code Version

2004

Application Status

Approved

Comments

Archived



Product Manufacturer

Wheeling Corrugating Company

Address/Phone/Email

1134 Market Street
Wheeling, WV 26003

Authorized Signature

James L. Buckner, P.E. @ C-Buck, Inc
jimmy@cbuckinc.net

Technical Representative

David W. Boltz

Address/Phone/Email

1134 Market Street
Wheeling, WV 26003

boltzdw@wpsc.com

Quality Assurance Representative

Address/Phone/Email

Category

Roofing

Subcategory

Metal Roofing

Compliance Method

Evaluation Report from a Florida Regis
Licensed Florida Professional Engineer
☒ Evaluation Report - Hardcopy RecdFlorida Engineer or Architect Name
who developed the Evaluation Report

James L. Buckner@C-Buck Engineerin

Florida License	PE-31242
Quality Assurance Entity	Underwriters Laboratories Inc.
Validated By	Warren W. Schaefer, P.E.

Certificate of Independence	FL7518 R0 COI CertOfIndep.pdf
-----------------------------	---

Referenced Standard and Year (of Standard)	<u>Standard</u> UL580
--	---------------------------------

Equivalence of Product Standards
Certified By

Sections from the Code

Product Approval Method	Method 1 Option D
-------------------------	-------------------

Date Submitted	09/19/2006
Date Validated	09/21/2006
Date Pending FBC Approval	09/25/2006
Date Approved	10/11/2006

Summary of Products

FL #	Model, Number or Name	Description
7518.1	"Centurydrain"	Minimum 26 Gauge Steel, Attached to Wood Deck
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +n/a /-128.15 Other: The required design wind loads shall be determined for each project per FBC, 2004, Section 1603.1.4. Any rational analysis computations shall be prepared by a qualified design professional, as required by Florida Building Code, Section 105 or 106. The maximum fastener spacing listed herein shall not be exceeded. This product is not approved for use in the High Velocity Hurricane Zone.		Installation Instruction FL7518 R0 II FL7518.1-CD 26GaSteelOnWood_31 Verified By: James L. Buc #31242 Evaluation Reports FL7518 R0 AE FL7518.1-CD 26GaSteelOnWood_31

[Back](#)
[Next](#)

COLUMBIA COUNTY FLORIDA

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 33-1S-17-04634-000

Building permit No. 000025839

Use Classification ADD. TO SFD

Fire: 0.00

Permit Holder OWNER BUILDER

Waste:

Owner of Building JOHN BRENNAN

Total: 0.00

Location: 11824 N US HIGHWAY 441, LAKE CITY, FL

Date: 10/02/2007

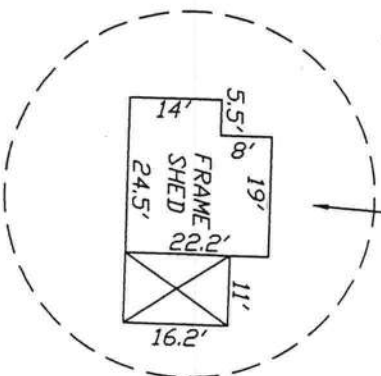




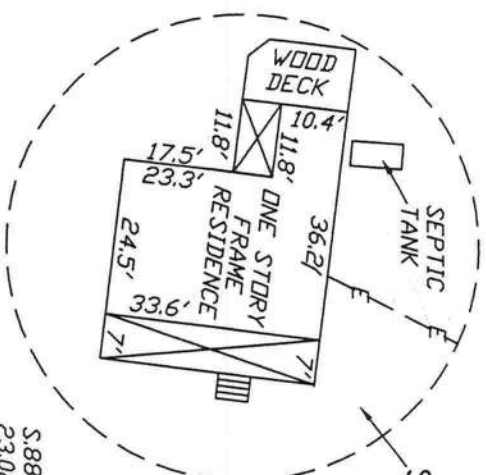
Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

INSERT "A"
SCALE: 1" = 30'



INSERT "B"
SCALE: 1" = 30'

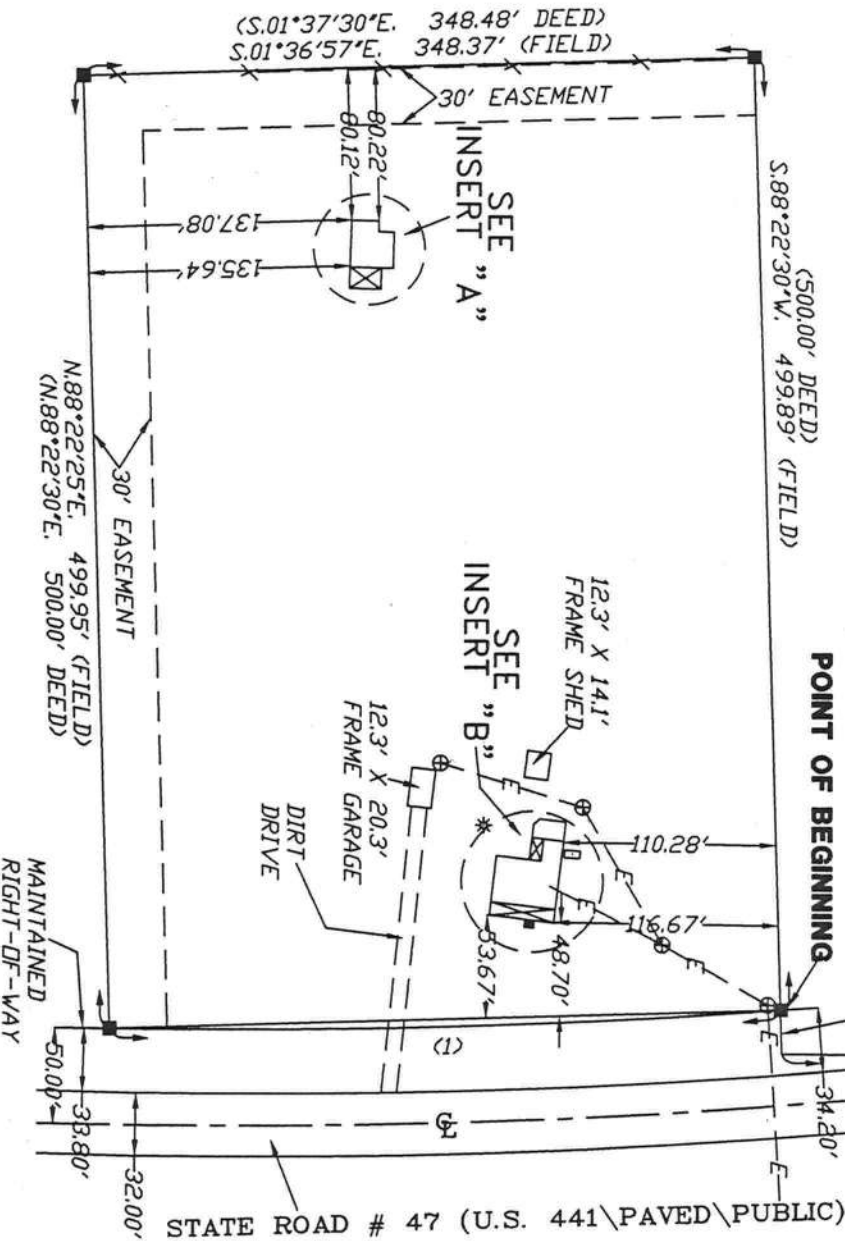


POINT OF COMMENCEMENT
SW CORNER OF N 1/2
OF NW 1/4 OF SE 1/4
OF SECTION 33, TOWNSHIP
1 SOUTH, RANGE 17 EAST

S.88°22'30"W,
23.02' (DEED)

S.00°22'56"W,
470.48' (DEED)

POINT OF BEGINNING



NOTE: ALL PROPERTY CORNERS LOCATED ARE IDENTIFIED AS W.C. HALE, P.L.S. 1519.

CURVE TABLE

NO.	RADIUS	DELTA	ARC	TANGENT	CHORD	CHORD BEARING
1	3769.72'	05°17'48"	348.49'	174.37'	348.36'	S.01°37'36"E.
PLAT	3769.72'				348.38'	S.01°37'30"E.

DESCRIPTION:
A PART OF THE E 1/2 OF SW 1/4, SECTION 33, TOWNSHIP 1 SOUTH, RANGE 17 EAST, COLUMBIA COUNTY, FLORIDA.
COMMENCE AT THE SOUTHWEST CORNER OF THE N 1/2 OF THE NW 1/4 OF THE SE 1/4 OF SECTION 33, TOWNSHIP 1 SOUTH, RANGE 17 EAST, COLUMBIA COUNTY, FLORIDA, AND RUN S.00°22'56"W, ALONG THE EAST LINE OF THE SW 1/4 OF SAID SECTION, 470.78 FEET; THENCE S.88°22'30"W, 23.02 FEET TO THE WEST RIGHT-OF-WAY LINE OF STATE ROAD NO. # 47 (U.S. 441) AND THE POINT OF BEGINNING; THENCE CONTINUE S.88°22'30"W, 500.00 FEET; THENCE S.01°37'30"E, 348.48 FEET; THENCE N.88°22'30"E, 500.00 FEET TO SAID WEST RIGHT-OF-WAY LINE, THENCE NORTHERLY ALONG A CURVE CONCAVE TO THE LEFT HAVING A RADIUS OF 3769.72 FEET ALONG A CHORD BEARING N.01°37'30"W, 348.48 FEET TO THE POINT OF BEGINNING, CONTAINING 4.0 ACRES MORE OR LESS.
SUBJECT TO A 30 FOOT EASEMENT OVER AND ACROSS THE SOUTH AND WEST LINE THEREOF.

- SURVEYOR'S NOTES:
1. BOUNDARY BASED ON MONUMENTATION FOUND.
 2. BEARINGS ARE BASED ON DEED OF RECORD.
 3. THIS PARCEL IS IN ZONE "X" AND IS DETERMINED TO BE OUTSIDE THE 500 YEAR FLOOD PLAIN AS PER FLOOD RATE MAP, DATED 6 JANUARY, 1988 COMMUNITY PANEL NUMBER 120070 0100 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.

CERTIFIED TO:

JOHN J. BRENNAN
ABSTRACT AND TITLE SERVICES, INC.
CHICAGO TITLE INSURANCE COMPANY

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 61G17-6, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.022, FLORIDA STATUTES.

02/08/06
FIELD SURVEY DATE

02/08/06
DRAWING DATE

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.

BOUNDARY SURVEY IN SECTION 33, TOWNSHIP 1 SOUTH, RANGE 17 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

BRITT

LAND SURVEYORS AND MAPPERS

830 WEST DUVAL STREET LAKE CITY, FLORIDA 32055

(386)752-7163 FAX (386)752-5573

WORK ORDER # **17012**