DATE 12/21/2006

Columbia County Building Permit

This Permit Expires One Year From the Date of Issue

PERMIT
000025336

APPLICANT RICKY MAYO PHONE 386.755.4913

ADDRESS 4790 NW LAKE JEFFERY ROAD LAKE CITY FL 32055

OWNER RICKY MAYO PHONE 386.755.4913

ADDRESS 4844 NW LAKE JEFFERY ROAD LAKE CITY FL 32055

CONTRACTOR OWNR BUILDER PHONE

LOCATION OF PROPERTY LAKE JEFFERY RD PAST JERUSALEM PRIMITIVE CHURCH AND IT'S THE 2ND. DRIVEWAY ON THE LEFT. (BEHIND SW/MH).

TYPE DEVELOPMENT SFD/UTILITY ESTIMATED COST OF CONSTRUCTION 146600.00

HEATED FLOOR AREA 2932.00 TOTAL AREA 3948.00 HEIGHT 18.00 STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 8'12 FLOOR CONC

LAND USE & ZONING A-3 MAX. HEIGHT 35

Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00

NO. EX.D.U. 1 FLOOD ZONE X DEVELOPMENT PERMIT NO.

PARCEL ID 15-3S-16-02134-000 SUBDIVISION

LOT BLOCK PHASE UNIT TOTAL ACRES 17.83

Culvert Permit No.	Culvert Waiver	Contractor's License Number	Ricky Mayo	Applicant/Owner/Contractor
EXISTING	06-1039N	BLK	JTH	N
Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident

COMMENTS: 1 FOOT ABOVE ROAD.(SW/MW WILL BE REMOVED ASAP)

Check # or Cash 10243

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 $ 735.00 CERTIFICATION FEE $ 19.74 SURCHARGE FEE $ 19.74

MISC. FEES $ 0.00 ZONING CERT. FEE $ 50.00 FIRE FEE $ 0.00 WASTE FEE $

FLOOD DEVELOPMENT FEE $ FLOOD ZONE FEE $ 25.00 CULVERT FEE $ **TOTAL FEE** 849.48

INSPECTORS OFFICE 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 INCONVIENCE, 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.

Columbia County Building Permit Application

For Office Use Only Application # 0612-53 Date Received 12/18 By JW Permit # 25336

Application Approved by - Zoning Official BLK Date 12.12.06 Plans Examiner OK JTH Date 12-21-06

Flood Zone X Development Permit N/A Zoning A-3 Land Use Plan Map Category A-3

Comments - NOC - - F

= CH# 10243 - RICKY

Applicants Name Ricky Mayo Phone 365-4919 or 623-5294

Address 4790 NW Lake Jeffery Road, LAKE CITY, FL 32055

Owners Name Ricky Mayo Phone 365-4919 or 623-5304

911 Address 4849 NW LAKE JEFFERY ROAD, LAKE CITY FL 32055

Contractors Name Owner Builders Phone —

Address —

Fee Simple Owner Name & Address Same as above

Bonding Co. Name & Address —

Architect/Engineer Name & Address William Meyers

Mortgage Lenders Name & Address CASH

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

Property ID Number 15-3S-16-02134-000 Estimated Cost of Construction 200,000

Subdivision Name — Lot ____ Block ____ Unit ____ Phase ____

Driving Directions LAKE JEFFERY RD PAST JUPYSALEM FURNITURE AND IT'S THE 2ND DRIVEWAY ON THE LEFT. CBH IND SIGN

Type of Construction Single Family Dwelling Number of Existing Dwellings on Property 1

Total Acreage 17.83 Lot Size ____ Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 400 Side 300 Side 300 Rear 375

Total Building Height 18' Number of Stories 1 Heated Floor Area 2932 TOTAL 3,948 Roof Pitch 8'12

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 COMMENCMENT 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.

Ricky Mayo
Owner Builder or Agent (including Contractor)

Ricky Mayo
Contractor Signature

Contractors License Number ____

Competency Card Number ____

STATE OF FLORIDA
COUNTY OF COLUMBIA

LAURIE HODSON
MY COMMISSION # DD 333503
EXPIRES: June 28, 2008
Bonded Thru Notary Public Underwriters

NOTARY STAMP/SEAL

Sworn to (or affirmed) and subscribed before me this 18 day of December 2006.

Personally known ____ or Produced Identification ✓

Notary Signature

October 5, 2006

To whom it may concern:

I Estella Mayo, give my son Ricky L. Mayo and wife Denise A. Mayo permission to build on the attached property description.

Sincerely

Estella Mayo

Estella Mayo

State: Florida
County: Columbia

Sign before me on this 13th day of October, 2006.

Rona L. Mizell
Notary

RONA L. MIZELL
MY COMMISSION # DD 383415
EXPIRES: April 8, 2009
Bonded Thru Notary Public Underwriters

NOTORIZED DISCLOSURE STATEMENT

FOR OWNER/BUILDER WHEN ACTING AS THER 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 **( ) Two-Family Residence**
( ) Farm Outbuilding **( ) Other_____**

NEW CONSTRUCTION OR IMPROVEMENT

(✓) New Construction **( ) Addition, Alteration, Modification or other Improvement**

I Ricky Mayo **, 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 _____**

Ricky Mayo 12-18-06
Owner Builder Signature **Date**

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

LAURIE HODSON
MY COMMISSION # DD 333503
EXPIRES: June 28, 2008
Bonded Thru Notary Public Underwriters

Notary Signature Laurie Hodson **Date** 12-18-06 **(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 12.18.06 **Building Official/Representative** David R. Williams

PARCEL_I	ADDRESS	NEWCITY	NE	NEWZI
02134-000	4844 NW LAKE JEFFERY RD	LAKE CITY	FL	32055

1 records selected.

COLUMBIA COUNTY
9-1-1 ADDRESSING
APPROVED

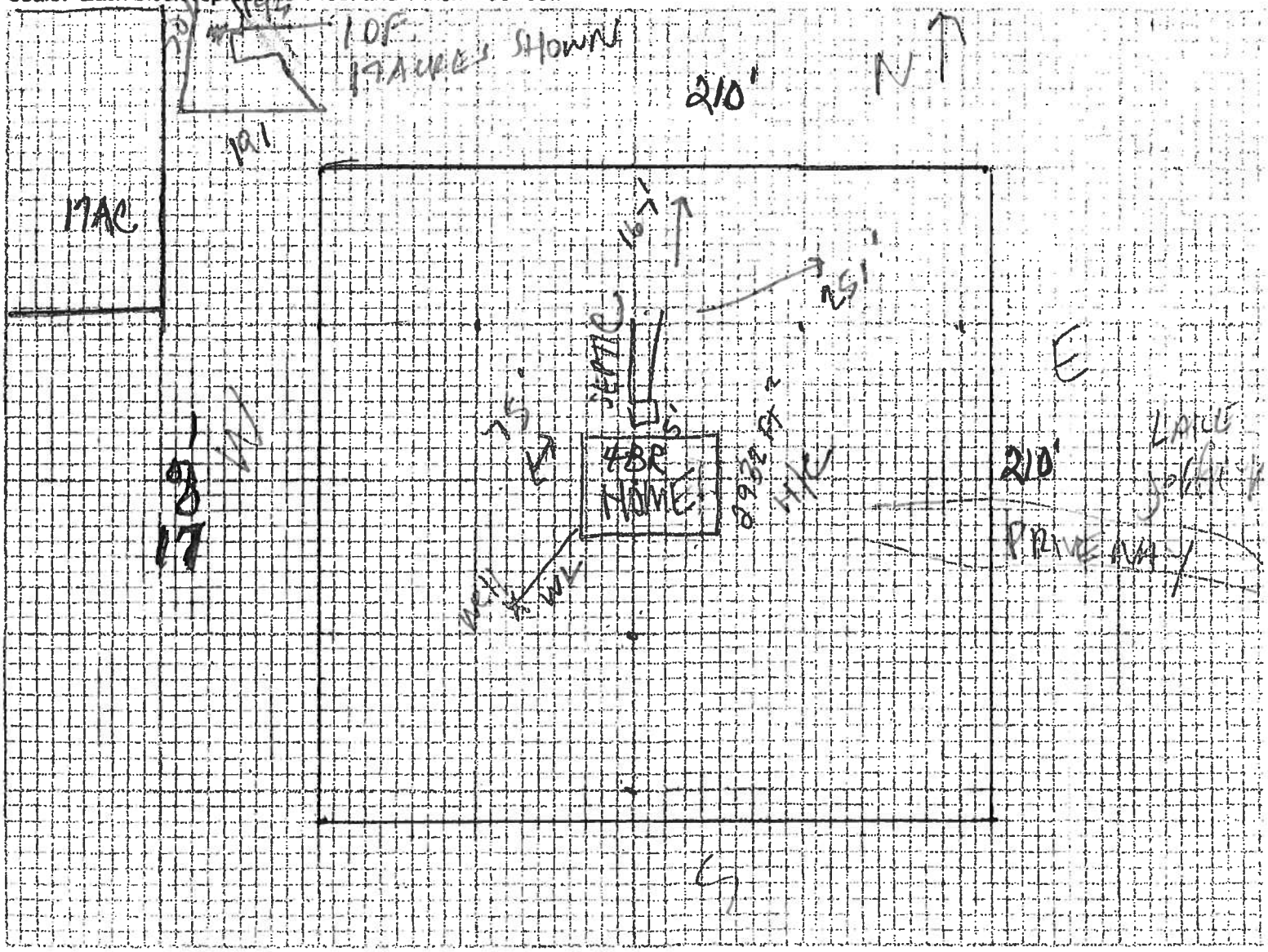
STATE OF FLORIDA
DEPARTMENT OF HEALTH

APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 06-1039N

PART II - SITE PLAN

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



Notes:

DRAWN BY SALLIE G.

Site Plan submitted by: Ricky Mang (Signature) OWNER (Title)

Plan Approved X Not Approved ____ Date 12-5-06

By Sallie Gaddy ES II Columbia CHD County Health Departme

LYNCH WELL DRILLING, INC.

173 SW Tustenuggee Ave
Lake City, FL. 32025
Phone 386-752-6677
Fax 386-752-1477

Building Permit #_____ Owner's Name Ricky Mays

Well Depth_____ Ft. Casing Depth _____Ft. Water Level _____Ft.

Casing Size 4 inch Steel Pump Installation: Deep Well Submersible

Pump Make Aermotor Pump Model S20-100 HP 1

System Pressure (PSI) _____On 30 Off 50 Average Pressure 40

Pumping System GPM at average pressure and pumping level 20 (GPM)

Tank Installation: Bladder /Galvanized Make Challenger
Model PC 244 Size 81

Tank Draw-down per cycle at system pressure 25.1 gallons

I HEREBY VERTIFY THAT THIS WATER WELL SYSTEM HAS BEEN INSTALLED AS PER THE ABOVE INFORMATION.

Linda Newcomb
Signature

Linda Newcomb
Print Name

2609
License Number

11-10-06
Date

From: The Columbia County Building & Zoning Department
Plan Review
135 NE Hernando Av.
P.O. Box 1529
Lake City Florida 32056-1529

Reference to a building permit application Number: 0612-53

Applicant: Ricky Mayo Owner/Builder Property ID 15-3s-02134-000
On the date of December 19, 2006 application 0612- 53 and plans for construction of single family dwelling were reviewed and the following information or alteration to the plans will be required to continue processing this application. If you should have any question please contact the above address, or contact phone number (386) 758-1163 or fax any information to (386) 754-7088.

Please include application number 0612-53 and when making reference to this application.

This is a plan review and subject to approval when in compliance with the following codes sections and all other requirements of the Florida Residential Code 2004 and doesn't make any consideration toward the land use and zoning requirements.

Over

1. The residential building code section 406.1.4 requires the following occupancy separation.

A. The private garage shall be separated from the dwelling unit and its attic area by means of a minimum ½-inch (12.7 mm) gypsum board applied to the garage side. Garages beneath habitable rooms shall be separated from all habitable rooms above by not less than 5/8-inch Type X gypsum board or equivalent. Door openings between a private garage and the dwelling unit shall be equipped with either solid wood doors or solid or honeycomb core steel doors not less than 13/8 inches (34.9 mm) thick, or doors in compliance with Sections 715.3.3. Openings from a private garage directly into a room used for sleeping purposes shall not be permitted.

B. Ducts in a private garage and ducts penetrating the walls or ceilings separating the dwelling unit from the garage shall be constructed of a minimum 0.019-inch (0.48 mm) sheet steel and shall have no openings into the garage.

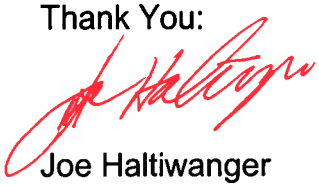
2. The 22"X54" attic access door shall meet the requirements of sections 715.3.3.Other openings between the garage and residence shall be equipped with solid wood doors not less than 13/8 inches (35 mm) in thickness, solid or honeycomb core steel doors not less than 13/8 inches (35 mm) thick, or 20-minute fire-rated doors.

3. On the electrical plans identify the electrical service overcurrent protection device for the main electrical service. This device shall be installed on the exterior of structures to serve as a disconnecting means for the utility company electrical service. Conductors used from the exterior disconnecting means to a panel or sub panel shall have four-wire conductors, of which one conductor shall be used as an equipment ground.

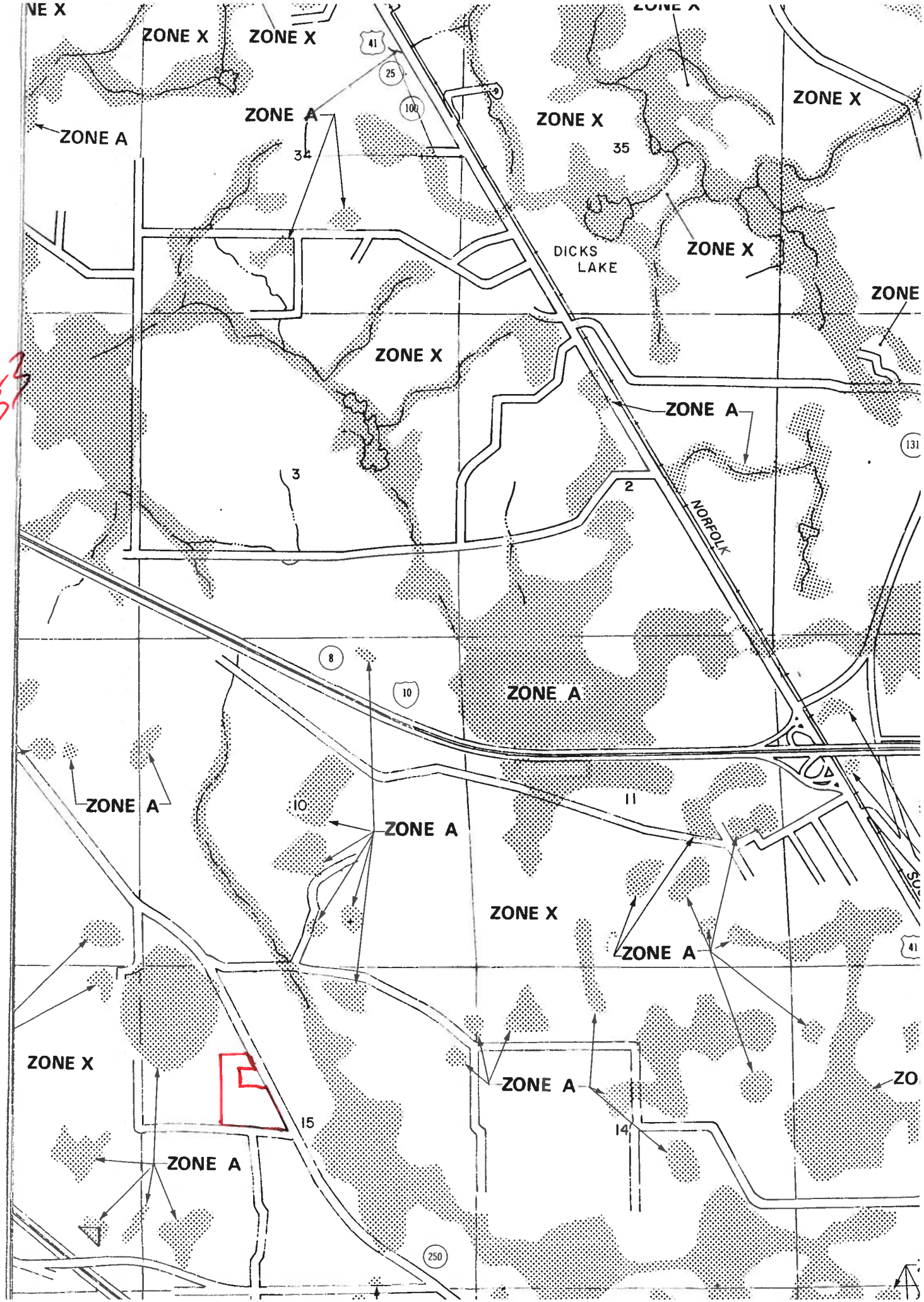
4. In each bedroom one window shall meet the requirement sections R310. Every sleeping room shall have at least one openable emergency escape and rescue opening. Where emergency escape and rescue openings are provided they shall have a sill height of not more than 44 inches (1118 mm) above the floor and Grade floor openings shall have a minimum net clear opening of 5 square feet (0.465 m2).The window shall comply with Section 310.3. The net clear opening dimensions required by this section shall be obtained by the normal operation of the emergency escape and rescue opening from the inside. Emergency escape and rescue openings with a finished sill height below the adjacent ground elevation shall be provided with a window well in accordance with Section R310.2. The emergency escape and rescue opening shall be permitted to open into a screen enclosure, open to the atmosphere, where a screen door is provided leading away from the residence.

5. The windows in the master bathroom shall meet the requirements of sections R308.4.5 Glazing in doors and enclosures for hot tubs, whirlpools, saunas, steam rooms, bathtubs and showers. Glazing in any part of a building wall enclosing these compartments where the bottom exposed edge of the glazing is less than 60 inches (1524 mm) measured vertically above any standing or walking surface. Each pane of glazing installed in hazardous locations as defined in Section R308.4 shall be provided with a manufacturer's or installer's label, designating the type and thickness of glass and the safety glazing standard with which it complies, which is visible in the final installation. The label shall be acid etched, sandblasted, ceramic-fired, embossed mark, or shall be of a type which once applied cannot be removed without being destroyed.

Thank You:



Joe Haltiwanger
Plan Examiner
Columbia County Building
Department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0612-53

25336

Notice of Treatment

Applicator: Florida Pest Control & Chemical Co. (www.flapest .com)
Address: 536 SE Baya Dr
City Lake City, Fl Phone 386-752-1703

Site Location: Subdivision _____
Lot # _____ Block# _____ Permit # 25336
Address 4844 NW LK Jeffery Rd L.C.

Product used	Active Ingredient	% Concentration
☐ Premise	Imidacloprid	0.1%
☐ Termidor	Fipronil	0.12%
☐ Bora-Care	Disodium Octaborate Tetrahydrate	23.0%

Type treatment: ☐ Soil ☐ Wood

Area Treated	Square feet	Linear feet	Gallons Applied
Main Body	3948	312	33

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 _____.

_____ Date _____ Time _____ Print Technician's Name

Remarks: _____

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

10/05 ©

Notice of Treatment

ADD to 12817

Applicator: Florida Pest Control & Chemical Co. (www.flapest .com)
Address: Baya Ave.
City Lake City Phone 752 1703

Site Location: Subdivision _____
Lot # _____ Block# _____ Permit # 25336
Address 4846 NW LK Jeffery RD

Product used	Active Ingredient	% Concentration
☐ Premise	Imidacloprid	0.1%
☐ Termidor	Fipronil	0.12% -06%
☐ Bora-Care	Disodium Octaborate Tetrahydrate	23.0%

Type treatment: ☐ Soil ☐ Wood

Area Treated	Square feet	Linear feet	Gallons Applied
Breeches (FRONT/BACK	434		50

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 _____.

12/14/07 Date | 1000 Time | FJSH GUAINV Print Technician's Name

Remarks: _____

Applicator - White Permit File - Canary Permit Holder - Pink

10/05 ©

FORM 600A-2004 Tested sealed ducts must be certified in this house. EnergyGauge® 4.1

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**Ricky & Denise Mayo**	Builder:	
Address:		Permitting Office:	**Columbia County**
City, State:	**Lake City, FL 32025-**	Permit Number:	25336
Owner:	**Mayo Residence**	Jurisdiction Number:	221000
Climate Zone:	**North**		

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 85.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 13.00
4. Number of Bedrooms	4	b. N/A	
5. Is this a worst case?	No		
6. Conditioned floor area (ft²)	2932 ft²	c. N/A	
7. Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)			
a. U-factor:	Description Area	13. Heating systems	
(or Single or Double DEFAULT)	7a (Sngle Default) 549.0 ft²	a. Electric Heat Pump	Cap: 85.0 kBtu/hr
b. SHGC:			HSPF: 7.20
(or Clear or Tint DEFAULT)	7b. (Clear) 549.0 ft²	b. N/A	
8. Floor types			
a. Slab-On-Grade Edge Insulation	R=0.0, 305.0(p) ft	c. N/A	
b. N/A			
c. N/A		14. Hot water systems	
9. Wall types		a. Electric Resistance	Cap: 80.0 gallons
a. Concrete, Ext Insul, Exterior	R=5.0, 2389.0 ft²		EF: 0.90
b. Frame, Wood, Adjacent	R=13.0, 220.0 ft²	b. Electric Resistance	Cap: 80.0 gallons
c. N/A			EF: 0.90
d. N/A		c. Conservation credits	
e. N/A		(HR-Heat recovery, Solar	
10. Ceiling types		DHP-Dedicated heat pump)	
a. Under Attic	R=30.0, 3100.0 ft²	15. HVAC credits	PT,
b. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
c. N/A		HF-Whole house fan,	
11. Ducts(Leak Free)		PT-Programmable Thermostat,	
a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 75.0 ft	MZ-C-Multizone cooling,	
b. N/A		MZ-H-Multizone heating)	

Glass/Floor Area: 0.19 Total as-built points: 40374 Total base points: 41734 **PASS**

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

PREPARED BY: _____

DATE: 12-21-06

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: , **Lake City, FL, 32025-** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF	= Points	
.18	2932.0	20.04	10576.3	Single, Clear	W	1.5	10.0	84.0	43.84	0.98	3604.9	
				Single, Clear	N	1.5	10.0	63.0	21.73	0.98	1344.0	
				Single, Clear	NE	8.5	10.0	33.3	33.55	0.62	689.7	
				Single, Clear	NW	15.5	10.0	24.0	29.42	0.57	403.8	
				Single, Clear	W	12.5	10.0	42.0	43.84	0.48	879.9	
				Single, Clear	W	12.5	10.0	60.0	43.84	0.48	1257.0	
				Single, Clear	W	1.5	8.0	40.0	43.84	0.96	1680.1	
				Single, Clear	N	1.5	8.0	20.0	21.73	0.97	420.3	
				Single, Clear	N	1.5	8.0	4.0	21.73	0.97	84.1	
				Single, Clear	N	1.5	8.0	2.7	21.73	0.97	56.7	
				Single, Clear	E	1.5	8.0	16.0	47.92	0.96	734.2	
				Single, Clear	E	1.5	10.0	60.0	47.92	0.98	2812.7	
				Single, Clear	E	9.5	13.0	40.0	47.92	0.60	1151.1	
				Single, Clear	S	1.5	8.0	60.0	40.81	0.92	2260.7	
				As-Built Total:				**549.0**			**17379.0**	

WALL TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Adjacent	220.0	0.70	154.0	Concrete, Ext Insul, Exterior	5.0	2389.0	0.50	1194.5
Exterior	2389.0	1.70	4061.3	Frame, Wood, Adjacent	13.0	220.0	0.60	132.0
Base Total:	**2609.0**		**4215.3**	**As-Built Total:**		**2609.0**		**1326.5**

DOOR TYPES	Area X	BSPM	= Points	Type	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:	**20.0**		**32.0**	**As-Built Total:**	**20.0**		**32.0**

CEILING TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM X SCM	= Points
Under Attic	2932.0	1.73	5072.4	Under Attic	30.0	3100.0	1.73 X 1.00	5363.0
Base Total:	**2932.0**		**5072.4**	**As-Built Total:**		**3100.0**		**5363.0**

FLOOR TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Slab	305.0(p)	-37.0	-11285.0	Slab-On-Grade Edge Insulation	0.0	305.0(p	-41.20	-12566.0
Raised	0.0	0.00	0.0					
Base Total:			**-11285.0**	**As-Built Total:**		**305.0**		**-12566.0**

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , Lake City, FL, 32025-	PERMIT #:

BASE				AS-BUILT						
INFILTRATION	Area X	BSPM	= Points		Area X	SPM	= Points			
	2932.0	10.21	29935.7		2932.0	10.21	29935.7			
Summer Base Points: 38546.7				**Summer As-Built Points:**						**41470.3**
Total Summer Points	X System Multiplier	= Cooling Points		Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points	
				(sys 1: Central Unit 85000 btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0(INS)						
				41470	1.00	(1.09 x 1.000 x 1.00)	0.263	0.950	11274.0	
38546.7	**0.4266**	**16444.0**		**41470.3**	**1.00**	**1.090**	**0.263**	**0.950**	**11274.0**	

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , **Lake City, FL, 32025-** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BWPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF	= Points	
.18	2932.0	12.74	6723.7	Single, Clear	W	1.5	10.0	84.0	28.84	1.01	2436.4	
				Single, Clear	N	1.5	10.0	63.0	33.22	1.00	2093.3	
				Single, Clear	NE	8.5	10.0	33.3	32.04	1.04	1110.0	
				Single, Clear	NW	15.5	10.0	24.0	32.93	1.03	814.5	
				Single, Clear	W	12.5	10.0	42.0	28.84	1.19	1442.3	
				Single, Clear	W	12.5	10.0	60.0	28.84	1.19	2060.4	
				Single, Clear	W	1.5	8.0	40.0	28.84	1.01	1166.4	
				Single, Clear	N	1.5	8.0	20.0	33.22	1.00	665.0	
				Single, Clear	N	1.5	8.0	4.0	33.22	1.00	133.0	
				Single, Clear	N	1.5	8.0	2.7	33.22	1.00	89.8	
				Single, Clear	E	1.5	8.0	16.0	26.41	1.02	430.9	
				Single, Clear	E	1.5	10.0	60.0	26.41	1.01	1604.7	
				Single, Clear	E	9.5	13.0	40.0	26.41	1.20	1272.7	
				Single, Clear	S	1.5	8.0	60.0	20.24	1.04	1264.3	
				As-Built Total:				**549.0**			**16583.6**	

WALL TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	= Points
Adjacent	220.0	3.60	792.0	Concrete, Ext Insul, Exterior	5.0	2389.0	4.30	10272.7
Exterior	2389.0	3.70	8839.3	Frame, Wood, Adjacent	13.0	220.0	3.30	726.0
Base Total:	**2609.0**		**9631.3**	**As-Built Total:**		**2609.0**		**10998.7**

DOOR TYPES	Area X	BWPM	= Points	Type	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	2932.0	2.05	6010.6	Under Attic	30.0	3100.0	2.05 X	1.00	6355.0
Base Total:	**2932.0**		**6010.6**	**As-Built Total:**		**3100.0**			**6355.0**

FLOOR TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	= Points
Slab	305.0(p)	8.9	2714.5	Slab-On-Grade Edge Insulation	0.0	305.0(p	18.80	5734.0
Raised	0.0	0.00	0.0					
Base Total:			**2714.5**	**As-Built Total:**		**305.0**		**5734.0**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , Lake City, FL, 32025-	PERMIT #:

BASE				AS-BUILT						
INFILTRATION	Area X	BWPM	= Points		Area X	WPM	= Points			
	2932.0	-0.59	-1729.9		2932.0	-0.59	-1729.9			
Winter Base Points:			**23510.2**	**Winter As-Built Points:**						**38101.5**
Total Winter Points	X System Multiplier	= Heating Points		Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points	
				(sys 1: Electric Heat Pump 85000 btuh ,EFF(7.2) Ducts:Unc(S),Unc(R),Gar(AH),R6.0						
				38101.5	1.000	(1.069 x 1.000 x 1.00)	0.474	0.950	18325.9	
23510.2	**0.6274**	**14750.3**		**38101.5**	**1.00**	**1.069**	**0.474**	**0.950**	**18325.9**	

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: , **Lake City, 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	
4		2635.00	10540.0	80.0	0.90	4	0.50	2693.56	1.00	5387.1	
				80.0	0.90	4	0.50	2693.56	1.00	5387.1	
				As-Built Total:						**10774.2**	

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points +	Heating Points +	Hot Water Points =	Total Points	Cooling Points +	Heating Points +	Hot Water Points =	Total Points
16444	**14750**	**10540**	**41734**	**11274**	**18326**	**10774**	**40374**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: , **Lake City, 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 cir 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* = 84.1

The higher the score, the more efficient the home.

Mayo Residence, , Lake City, FL, 32025-

1.	New construction or existing	New	12.	Cooling systems	
2.	Single family or multi-family	Single family		a. Central Unit	Cap: 85.0 kBtu/hr
3.	Number of units, if multi-family	1			SEER: 13.00
4.	Number of Bedrooms	4		b. N/A	
5.	Is this a worst case?	No			
6.	Conditioned floor area (ft²)	2932 ft²		c. N/A	
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)				
	a. U-factor:	Description Area	13.	Heating systems	
	(or Single or Double DEFAULT) 7a.	(Sngle Default) 549.0 ft²		a. Electric Heat Pump	Cap: 85.0 kBtu/hr
	b. SHGC:				HSPF: 7.20
	(or Clear or Tint DEFAULT) 7b.	(Clear) 549.0 ft²		b. N/A	
8.	Floor types				
	a. Slab-On-Grade Edge Insulation	R=0.0, 305.0(p) ft		c. N/A	
	b. N/A				
	c. N/A		14.	Hot water systems	
9.	Wall types			a. Electric Resistance	Cap: 80.0 gallons
	a. Concrete, Ext Insul, Exterior	R=5.0, 2389.0 ft²			EF: 0.90
	b. Frame, Wood, Adjacent	R=13.0, 220.0 ft²		b. Electric Resistance	Cap: 80.0 gallons
	c. N/A				EF: 0.90
	d. N/A			c. Conservation credits	
	e. N/A			(HR-Heat recovery, Solar	
10.	Ceiling types			DHP-Dedicated heat pump)	
	a. Under Attic	R=30.0, 3100.0 ft²	15.	HVAC credits	PT,
	b. N/A			(CF-Ceiling fan, CV-Cross ventilation,	
	c. N/A			HF-Whole house fan,	
11.	Ducts(Leak Free)			PT-Programmable Thermostat,	
	a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 75.0 ft		MZ-C-Multizone cooling,	
	b. N/A			MZ-H-Multizone heating)	

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

Builder Signature: _____ Date: _____

Address of New Home: _____ City/FL Zip: _____

**NOTE: The home's estimated energy performance score is only available through the FLA/RES computer program. This is not a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStar™ 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.

Energy Code Compliance

Duct System Performance Report

Project Name:	Ricky & Denise Mayo	Builder:	
Address:		Permitting Office:	Columbia County
City, State:	Lake City, FL 32025-	Permit Number:	
Owner:	Mayo Residence	Jurisdiction Number:	
Climate Zone:	North		

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) ☐ Receive credit if Q_n,tot≤ 0.03	Sum lines 1-4 _____ Divide by _____ (Total Conditioned Floor Area) = _____ (Q_n,out) ☐ 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.htp

BUILDING OFFICIAL: _____

DATE: _____

Residential System Sizing Calculation

Summary

Mayo Residence

Lake City, FL 32025-

Project Title:
Ricky & Denise Mayo

Code Only
Professional Version
Climate: North

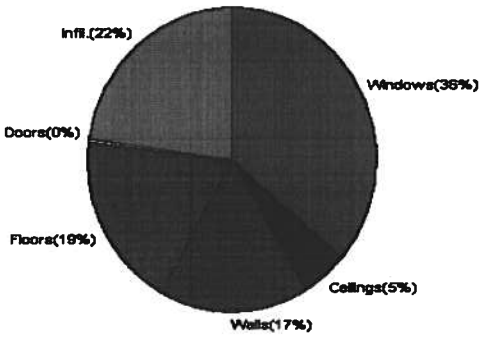
12/21/2006

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	**70960**	**Btuh**	**Total cooling load calculation**	**78670**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	119.8	85000	Sensible (SHR = 0.75)	98.7	63750
Heat Pump + Auxiliary(0.0kW)	119.8	85000	Latent	150.7	21250
			Total (Electric Heat Pump)	108.0	85000

WINTER CALCULATIONS

Winter Heating Load (for 2932 sqft)

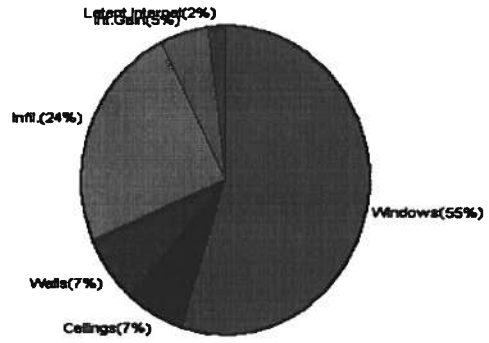
Load component			Load	
Window total	549	sqft	25798	Btuh
Wall total	2609	sqft	12099	Btuh
Door total	20	sqft	259	Btuh
Ceiling total	3100	sqft	3653	Btuh
Floor total	305	sqft	13316	Btuh
Infiltration	391	cfm	15835	Btuh
Duct loss			0	Btuh
Subtotal			**70960**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**70960**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 2932 sqft)

Load component			Load	
Window total	549	sqft	42982	Btuh
Wall total	2609	sqft	5651	Btuh
Door total	20	sqft	196	Btuh
Ceiling total	3100	sqft	5134	Btuh
Floor total			0	Btuh
Infiltration	342	cfm	6366	Btuh
Internal gain			4240	Btuh
Duct gain			0	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Total sensible gain			**64569**	**Btuh**
Latent gain(ducts)			0	Btuh
Latent gain(infiltration)			12501	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1600	Btuh
Total latent gain			**14101**	**Btuh**
TOTAL HEAT GAIN			**78670**	**Btuh**



For Florida residences only

EnergyGauge® System Sizing
PREPARED BY: Justin Morris
DATE: 12-21-06

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Mayo Residence
Lake City, FL 32025-

Project Title:
Ricky & Denise Mayo

Code Only
Professional Version
Climate: North

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

12/21/2006

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	1, Clear, Metal, 1.27	W	84.0	47.0	3947 Btuh
2	1, Clear, Metal, 1.27	N	63.0	47.0	2960 Btuh
3	1, Clear, Metal, 1.27	NE	33.3	47.0	1565 Btuh
4	1, Clear, Metal, 1.27	NW	24.0	47.0	1128 Btuh
5	1, Clear, Metal, 1.27	W	42.0	47.0	1974 Btuh
6	1, Clear, Metal, 1.27	W	60.0	47.0	2819 Btuh
7	1, Clear, Metal, 1.27	W	40.0	47.0	1880 Btuh
8	1, Clear, Metal, 1.27	N	20.0	47.0	940 Btuh
9	1, Clear, Metal, 1.27	N	4.0	47.0	188 Btuh
10	1, Clear, Metal, 1.27	N	2.7	47.0	127 Btuh
11	1, Clear, Metal, 1.27	E	16.0	47.0	752 Btuh
12	1, Clear, Metal, 1.27	E	60.0	47.0	2819 Btuh
13	1, Clear, Metal, 1.27	E	40.0	47.0	1880 Btuh
14	1, Clear, Metal, 1.27	S	60.0	47.0	2819 Btuh
	Window Total		549(sqft)		25798 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Concrete Blk,Hollow - Ext(0.13)	5.0	2389	4.8	11376 Btuh
2	Frame - Wood - Adj(0.09)	13.0	220	3.3	722 Btuh
	Wall Total		2609		12099 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	3100	1.2	3653 Btuh
	Ceiling Total		3100		3653Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	305.0 ft(p)	43.7	13316 Btuh
	Floor Total		305		13316 Btuh
			Zone Envelope Subtotal:		55124 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.80	29320	390.9	15835 Btuh
Ductload	Proposed leak free, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh
Zone #1			**Sensible Zone Subtotal**		**70960 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Mayo Residence

Lake City, FL 32025-

Project Title:
Ricky & Denise Mayo

Code Only
Professional Version
Climate: North

12/21/2006

WHOLE HOUSE TOTALS

	Subtotal Sensible	70960 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	70960 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 - ManualJ Heat Transfer Multiplier)

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

Approved by ACCA MANUAL J

For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Mayo Residence
Lake City, FL 32025-

Project Title:
Ricky & Denise Mayo

Code Only
Professional Version
Climate: North

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

12/21/2006

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	1, Clear, Metal, 1.27	W	84.0	47.0	3947 Btuh
2	1, Clear, Metal, 1.27	N	63.0	47.0	2960 Btuh
3	1, Clear, Metal, 1.27	NE	33.3	47.0	1565 Btuh
4	1, Clear, Metal, 1.27	NW	24.0	47.0	1128 Btuh
5	1, Clear, Metal, 1.27	W	42.0	47.0	1974 Btuh
6	1, Clear, Metal, 1.27	W	60.0	47.0	2819 Btuh
7	1, Clear, Metal, 1.27	W	40.0	47.0	1880 Btuh
8	1, Clear, Metal, 1.27	N	20.0	47.0	940 Btuh
9	1, Clear, Metal, 1.27	N	4.0	47.0	188 Btuh
10	1, Clear, Metal, 1.27	N	2.7	47.0	127 Btuh
11	1, Clear, Metal, 1.27	E	16.0	47.0	752 Btuh
12	1, Clear, Metal, 1.27	E	60.0	47.0	2819 Btuh
13	1, Clear, Metal, 1.27	E	40.0	47.0	1880 Btuh
14	1, Clear, Metal, 1.27	S	60.0	47.0	2819 Btuh
	Window Total		549(sqft)		25798 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Concrete Blk,Hollow - Ext(0.13)	5.0	2389	4.8	11376 Btuh
2	Frame - Wood - Adj(0.09)	13.0	220	3.3	722 Btuh
	Wall Total		2609		12099 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	3100	1.2	3653 Btuh
	Ceiling Total		3100		3653Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	305.0 ft(p)	43.7	13316 Btuh
	Floor Total		305		13316 Btuh
			Zone Envelope Subtotal:		55124 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.80	29320	390.9	15835 Btuh
Ductload	Proposed leak free, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh
Zone #1			**Sensible Zone Subtotal**		**70960 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Mayo Residence

Lake City, FL 32025-

Project Title:
Ricky & Denise Mayo

Code Only
Professional Version
Climate: North

12/21/2006

WHOLE HOUSE TOTALS

	Subtotal Sensible	70960 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	70960 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 - 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

Mayo Residence

Lake City, FL 32025-

Project Title:
Ricky & Denise Mayo

Code Only
Professional Version
Climate: North

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

12/21/2006

Component Loads for Whole House

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	1, Clear, 1.27, None,N,N	W	1.5ft	10ft.	84.0	0.0	84.0	37	94	7900 Btuh
2	1, Clear, 1.27, None,N,N	N	1.5ft	10ft.	63.0	0.0	63.0	37	37	2360 Btuh
3	1, Clear, 1.27, None,N,N	NE	8.5ft	10ft.	33.3	0.0	33.3	37	72	2406 Btuh
4	1, Clear, 1.27, None,N,N	NW	15.5f	10ft.	24.0	0.0	24.0	37	72	1734 Btuh
5	1, Clear, 1.27, None,N,N	W	12.5f	10ft.	42.0	42.0	0.0	37	94	1573 Btuh
6	1, Clear, 1.27, None,N,N	W	12.5f	10ft.	60.0	60.0	0.0	37	94	2247 Btuh
7	1, Clear, 1.27, None,N,N	W	1.5ft	8ft.	40.0	0.0	40.0	37	94	3762 Btuh
8	1, Clear, 1.27, None,N,N	N	1.5ft	8ft.	20.0	0.0	20.0	37	37	749 Btuh
9	1, Clear, 1.27, None,N,N	N	1.5ft	8ft.	4.0	0.0	4.0	37	37	150 Btuh
10	1, Clear, 1.27, None,N,N	N	1.5ft	8ft.	2.7	0.0	2.7	37	37	101 Btuh
11	1, Clear, 1.27, None,N,N	E	1.5ft	8ft.	16.0	0.0	16.0	37	94	1505 Btuh
12	1, Clear, 1.27, None,N,N	E	1.5ft	10ft.	60.0	0.0	60.0	37	94	5643 Btuh
13	1, Clear, 1.27, None,N,N	E	9.5ft	13ft.	40.0	9.3	30.7	37	94	3235 Btuh
14	1, Clear, 1.27, None,N,N	S	1.5ft	8ft.	60.0	60.0	0.0	37	43	2247 Btuh
	Excursion									7372 Btuh
	Window Total				549 (sqft)					42982 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Concrete Blk,Hollow - Ext	5.0/0.13	2389.0	2.2	5319 Btuh
2	Frame - Wood - Adj	13.0/0.09	220.0	1.5	332 Btuh
	Wall Total		2609 (sqft)		5651 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	3100.0	1.7	5134 Btuh
	Ceiling Total		3100 (sqft)		5134 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	305 (ft(p))	0.0	0 Btuh
	Floor Total		305.0 (sqft)		0 Btuh

			Zone Envelope Subtotal:		53963 Btuh
Infiltration	Type	ACH	Volume(cuft)	CFM=	Load
	SensibleNatural	0.70	29320	342.1	6366 Btuh
Internal gain		Occupants	Btuh/occupant	Appliance	Load
		8	X 230 +	2400	4240 Btuh
Duct load	Proposed leak free, R6.0, Supply(Attic), Return(Attic)			DGM = 0.00	0.0 Btuh
				Sensible Zone Load	**64569 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Mayo Residence

Lake City, FL 32025-

Project Title:
Ricky & Denise Mayo

Code Only
Professional Version
Climate: North

12/21/2006

WHOLE HOUSE TOTALS

	Sensible Envelope Load All Zones	**64569 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**64569 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
Whole House	**Total sensible gain**	**64569 Btuh**
Totals for Cooling	Latent infiltration gain (for 54 gr. humidity difference)	12501 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (8 people @ 200 Btuh per person)	1600 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**14101 Btuh**
	TOTAL GAIN	**78670 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

Mayo Residence
Lake City, FL 32025-

Project Title:
Ricky & Denise Mayo

Code Only
Professional Version
Climate: North

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

12/21/2006

Component Loads for Zone #1: Main

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	1, Clear, 1.27, None,N,N	W	1.5ft	10ft.	84.0	0.0	84.0	37	94	7900 Btuh
2	1, Clear, 1.27, None,N,N	N	1.5ft	10ft.	63.0	0.0	63.0	37	37	2360 Btuh
3	1, Clear, 1.27, None,N,N	NE	8.5ft	10ft.	33.3	0.0	33.3	37	72	2406 Btuh
4	1, Clear, 1.27, None,N,N	NW	15.5f	10ft.	24.0	0.0	24.0	37	72	1734 Btuh
5	1, Clear, 1.27, None,N,N	W	12.5f	10ft.	42.0	42.0	0.0	37	94	1573 Btuh
6	1, Clear, 1.27, None,N,N	W	12.5f	10ft.	60.0	60.0	0.0	37	94	2247 Btuh
7	1, Clear, 1.27, None,N,N	W	1.5ft	8ft.	40.0	0.0	40.0	37	94	3762 Btuh
8	1, Clear, 1.27, None,N,N	N	1.5ft	8ft.	20.0	0.0	20.0	37	37	749 Btuh
9	1, Clear, 1.27, None,N,N	N	1.5ft	8ft.	4.0	0.0	4.0	37	37	150 Btuh
10	1, Clear, 1.27, None,N,N	N	1.5ft	8ft.	2.7	0.0	2.7	37	37	101 Btuh
11	1, Clear, 1.27, None,N,N	E	1.5ft	8ft.	16.0	0.0	16.0	37	94	1505 Btuh
12	1, Clear, 1.27, None,N,N	E	1.5ft	10ft.	60.0	0.0	60.0	37	94	5643 Btuh
13	1, Clear, 1.27, None,N,N	E	9.5ft	13ft.	40.0	9.3	30.7	37	94	3235 Btuh
14	1, Clear, 1.27, None,N,N	S	1.5ft	8ft.	60.0	60.0	0.0	37	43	2247 Btuh
	Excursion									7372 Btuh
	Window Total				549 (sqft)					42982 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Concrete Blk,Hollow - Ext	5.0/0.13	2389.0	2.2	5319 Btuh
2	Frame - Wood - Adj	13.0/0.09	220.0	1.5	332 Btuh
	Wall Total		2609 (sqft)		5651 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	3100.0	1.7	5134 Btuh
	Ceiling Total		3100 (sqft)		5134 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	305 (ft(p))	0.0	0 Btuh
	Floor Total		305.0 (sqft)		0 Btuh

				Zone Envelope Subtotal:	53963 Btuh
Infiltration	Type	ACH	Volume(cuft)	CFM=	Load
	SensibleNatural	0.70	29320	342.1	6366 Btuh
Internal gain		Occupants	Btuh/occupant	Appliance	Load
		8	X 230 +	2400	4240 Btuh
Duct load	Proposed leak free, R6.0, Supply(Attic), Return(Attic)			DGM = 0.00	0.0 Btuh
				Sensible Zone Load	**64569 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Mayo Residence

Lake City, FL 32025-

Project Title:
Ricky & Denise Mayo

Code Only
Professional Version
Climate: North

12/21/2006

WHOLE HOUSE TOTALS

	Sensible Envelope Load All Zones	**64569 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**64569 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
Whole House	**Total sensible gain**	**64569 Btuh**
Totals for Cooling	Latent infiltration gain (for 54 gr. humidity difference)	12501 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (8 people @ 200 Btuh per person)	1600 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**14101 Btuh**
	TOTAL GAIN	**78670 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

Mayo Residence

Lake City, FL 32025-

Project Title:
Ricky & Denise Mayo

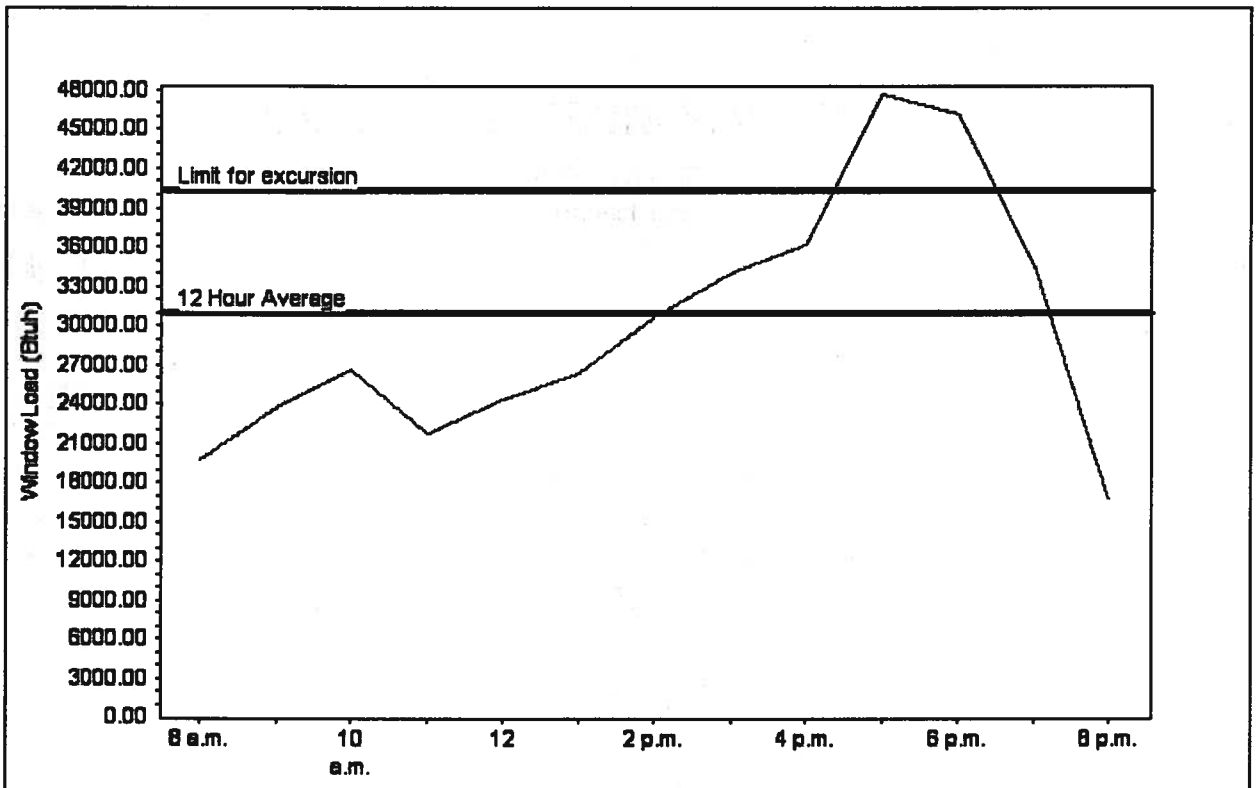
Code Only
Professional Version
Climate: North

12/21/2006

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	30991 Btu
Summer setpoint	75 F	Peak window load for July	47660 Btu
Summer temperature difference	17 F	Excusion limit(130% of Ave.)	40288 Btu
Latitude	29 North	Window excursion (July)	7372 Btuh

WINDOW Average and Peak Loads



Total July Window Load(Radiation and conduction)

This application has glass areas that produce large heat gains for part of the day. Variable air volume devices are required to overcome spikes in solar gain for one or more rooms. Install a zoned system or provide zone control for problem rooms. Single speed equipment may not be suitable for the application.

EnergyGauge® System Sizing for Florida residences only

PREPARED BY: _____

DATE: _____

July 16, 2008

To whom it may concern:

This is a request for an extension on building permit #00002536 for Ricky and Denise Mayo for an additional 90 days. Due to the time it took to gather all information needed for the bank to approve the loan for owner builder, this has interfered with the time to start and complete the building process, thus requiring an extension of the permit.

Sincerely,

Ricky and Denise Mayo

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.

Tax Parcel ID Number 15-35-16-02134-000 **PERMIT NUMBER** 000025336

1. **Description of property: (legal description of the property and street address or 911 address)**
4844 NW Lake Jeffery Rd - Lake city, Fl 32055
The 2nd driveway on Left past Jerusalem primitive Baptist Church

2. **General description of improvement:** _____

Inst:200712023277 Date:10/16/2007 Time:3:07 PM
DC,P.DeWitt Cason,Columbia County Page 1 of 1

3. **Owner Name & Address** Ricky & Denise Mayo 4790 NW Lake Jeffery Rd Lake city, Fl 32055 **Interest in Property** _____
4. **Name & Address of Fee Simple Owner (if other than owner):** None
5. **Contractor Name** [redacted] owner Builder Ricky Mayo **Phone Number** 386-755-4913
Address Same Above
6. **Surety Holders Name** _____ **Phone Number** _____
Address _____
Amount of Bond _____
7. **Lender Name** First Federal Bank **Phone Number** 386-755-0600
Address 4705 W Hwy 90
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 _____ **Phone Number** _____
Address _____
9. **In addition to himself/herself the owner designates** _____ **of** _____ **to receive a copy of the Lienor's 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)** _____

NOTICE AS PER CHAPTER 713, Florida Statutes:
The owner must sign the notice of commencement and no one else may be permitted to sign in his/her stead.

Ricky Mayo
Signature of Owner

Sworn to (or affirmed) and subscribed before day of October 16, **20** 07

NOTARY STAMP/SEAL

Lisa Huchingson
MY COMMISSION # DD607758
EXPIRES: October 23, 2010
(407)398-0163 FloridaNotaryService.com

Lisa Huchingson
Signature of Notary

December 17, 2007

To whom it may concern:

This is a request for an extension on building permit #00002 5336 for Ricky and Denise Mayo for an additional 90 days. Due to the time it took to gather all information needed for the bank to approve the loan for owner builder, this has interfered with the time to start and complete the building process, thus requiring an extension of the permit.

Sincerely,

Ricky Mayo Denise Mayo

Ricky and Denise Mayo

March 13, 2008

To whom it may concern:

This is a request for an extension on building permit #00002533 6 for Ricky and Denise Mayo for an additional 90 days. Due to the time it took to gather all information needed for the bank to approve the loan for owner builder, this has interfered with the time to start and complete the building process, thus requiring an extension of the permit.

Sincerely,

Ricky Mayo
Denise Mayo

Ricky and Denise Mayo

EXT DOORS -- FL18 -- RELIABILT
GARAGE DOORS -- FL697 -- HOLMES
SINGLE HUNG ALUM. WINDOWS -- FL663 -- BETTERBILT
VINYL SIDING -- FL1139 -- GEORGIA PACIFIC
VINYL SOFFIT -- FL1146 -- GEORGIA PACIFIC
HARDI BOARD SIDING -- FL889.5 -- JAMES HARDIE
SHINGLES -- FL673 -- OWENS CORNING
METAL ROOFING -- FL2287 -- UNION CORRUGATING COMPANY
SKYLIGHT -- FL2442 -- SUNTEX

RICKY & DENISE MAYO
HVAC LOAD ANALYSIS

for

RICKY MAYO

Prepared By:

DAVID HALL
DAVID HALL'S INC.
PO BOX 244
LAKE CITY FL 32056
386-755-9792
11/7/06

Miscellaneous Project Data

Project File Name: MAYO, RICKY

System Input Data

---System 1---	Outdoor Dry Bulb	Outdoor Wet Bulb	Indoor Rel.Hum.	Indoor Dry Bulb	Grains Difference
Winter:	31	N/A	N/A	72	N/A
Summer:	93	78	50%	75	57

External Overhangs

No.	Projection	Offset	No.	Projection	Offset
1	3	1	6	0	0
2	5	0	7	0	0
3	4	0.5	8	0	0
4	0	0	9	0	0
5	0	0	10	0	0

Duct Sizing Inputs

	Runouts		Main Trunk	
Duct Material:	Flexible Duct		Fiberglass Duct Board	
Roughness Factor:	0.010000		0.003000	
Pressure Drop:	0.1000	In.wg/100 Ft.	0.1000	In.wg/100 Ft.
Minimum Velocity:	450.0	Ft./Minute	650.0	Ft./Minute
Maximum Velocity:	750.0	Ft./Minute	900.0	Ft./Minute
Minimum Height:	0	Inches	0	Inches
Maximum Height:	0	Inches	0	Inches

Outside Air Data

	Winter		Summer	
Infiltration:	0.900	AC/Hr	0.400	AC/Hr
Volume of Conditioned Space:	X 30058	Cu.Ft.	X 30058	Cu.Ft.
	27,052	Cu.Ft./Hr	12,023	Cu.Ft./Hr
	X 0.0167		X 0.0167	
Total Building Infiltration:	450.87	CFM	200.3867	CFM
Total Building Ventilation:	0	CFM	0	CFM

---System 1---

Infiltration & Ventilation Sensible Gain Multiplier: 19.80 = (1.10 X 18.00 Summer Temp. Difference)
Infiltration & Ventilation Latent Gain Multiplier: 38.46 = (0.68 X 56.56 Grains Difference)
Infiltration & Ventilation Sensible Loss Multiplier: 45.10 = (1.10 X 41.00 Winter Temp. Difference)

Total Building Summary Loads

Component Description	Area Quan	Sen. Loss	Lat. Gain	Sen. Gain	Total Gain
3C Window Double Pane Clear Glass Metal Frame	397	11,800	0	18,371	18,371
9G French Door Double Clear Glass Wood Frame	84	1,798	0	1,864	1,864
10D Door Wood Solid Core	42	792	0	417	417
11C Door Metal Polystyrene Core	42	810	0	426	426
12C Wall R-11 + 1/2" Gypsum(R-0.5)	2,133	7,870	0	4,146	4,146
16G Ceiling R-30 Insulation	2,932	3,968	0	4,063	4,063
22A Slab on Grade No Edge Insulation	267	8,865	0	0	0
Subtotals for structure:	5,897	35,903	0	29,287	29,287
Active People:	6	0	1,380	1,800	3,180
Inactive People:	0	0	0	0	0
Appliances:	0	0	1,200	1,200	2,400
Lighting:	0	0		7,502	
Ductwork:	0	2,813	0	4,378	4,378
Infiltration: Winter CFM: 450.9, Summer CFM: 200.4	565	20,337	7,707	3,967	11,674
Ventilation: Winter CFM: 0.0, Summer CFM: 0.0	0	0	0	0	0
Sensible Gain Total:				48,134	
Temperature Swing Multiplier:				X1.00	
Building Load Totals:		59,053	10,287	48,134	58,421

Check Figures

Total Building Supply CFM:	2188	CFM per square foot:	0.746
Square feet of room area:	2,932	Square feet per ton:	562.839

Building Loads

Total heating required with outside air:	59,053 Btuh	59.053	MBH
Total sensible gain:	48,134 Btuh	82	%
Total latent gain:	10,287 Btuh	18	%
Total cooling required with outside air:	58,421 Btuh	4.868	Tons (based on sensible + latent)
		5.209	Tons (based on 77% sensible capacity)

Notes

Calculations are based on 7th edition of ACCA Manual J.
All computed results are estimates as building use and weather may vary.
Be sure to select a unit that meets both sensible and latent loads.

System #1 Summary Loads

Component Description	Area Quan	Sen. Loss	Lat. Gain	Sen. Gain	Total Gain
3C Window Double Pane Clear Glass Metal Frame	397	11,800	0	18,371	18,371
9G French Door Double Clear Glass Wood Frame	84	1,798	0	1,864	1,864
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Infiltration: Winter CFM: 450.9, Summer CFM: 200.4	565	20,337	7,707	3,967	11,674
Ventilation: Winter CFM: 0.0, Summer CFM: 0.0	0	0	0	0	0
Sensible Gain Total:				48,134	
Temperature Swing Multiplier:				X1.00	
System Load Totals:		59,053	10,287	48,134	58,421

Check Figures

Supply CFM:	2,188	CFM per square foot:	0.746
Square feet of room area:	2,932	Square feet per ton:	562.839

System Loads

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Notes

Calculations are based on 7th edition of ACCA Manual J.
All computed results are estimates as building use and weather may vary.
Be sure to select a unit that meets both sensible and latent loads.

Room Load Summary Reports

System #1 Room Load Summary

No	Room Name	Area SF	Htg Sens Btuh	Htg Nom CFM	Run Duct Size	Run Duct Vel	Clg Sens Btuh	Clg Lat Btuh	Clg Nom CFM	Zone Adj Fact	Clg Adj CFM	Air Sys CFM
	---Zone 1---											
1	Utility Room	120	1,955	25	1-4	569	1,092	286	50	1.00	50	50
2	Bedroom #3	205	3,395	44	1-6	540	2,331	435	106	1.00	106	106
3	Bath	83	501	7	1-3	571	617	0	28	1.00	28	28
4	Bedroom# 2	195	2,358	31	1-7	479	2,251	205	102	1.25	128	102
5	Kitchen	148	2,508	33	1-8	464	3,561	1,757	162	1.00	162	162
6	Family Room	560	19,418	252	2-12	644	17,804	3,217	809	1.25	1,012	809
7	Pantry	50	378	5	1-3	503	543	0	25	1.00	25	25
8	Great Room	192	6,553	85	1-8	460	3,530	1,146	160	1.00	160	160
9	Dining Room	214	3,398	44	1-7	558	2,786	639	127	1.18	149	127
10	Foyer	105	3,002	39	1-5	600	1,799	573	82	1.00	82	82
11	Bedroom# 4	226	3,159	41	1-8	457	2,702	639	123	1.30	160	123
12	Powder Room	70	1,679	22	1-4	501	961	286	44	1.00	44	44
13	Master Bedroom	300	5,600	73	2-5	580	3,482	776	158	1.00	158	158
14	Master Closet# 1	73	139	2	1-3	450	486	0	22	1.00	22	22
15	Master Closet# 2	82	974	13	1-4	527	1,012	55	46	1.00	46	46
16	Master Bath	231	3,856	50	2-5	454	2,307	273	105	1.18	124	105
17	Hall	32	80	1	1-3	393	424	0	19	1.00	19	19
18	Hall#2	46	100	1	1-3	413	446	0	20	1.00	20	20
System 1 Totals		2932	59,053	767			48,134	10,287	2,188		2,494	2,188

*Main Trunk Size: 20x16 in.
*Main Trunk velocity constraints were not met due to duct schedule limitations.
Main Trunk Air Velocity = 1052 Feet/Minute

System #1 Cooling System Summary

	Cooling Tons	Sensible/Latent Split	Sensible Btuh	Latent Btuh	Total Btuh
Net Required:	4.868	82%/18%	48,134	10,287	58,421
Recommended:	5.209	77%/23%	48,134	14,378	62,512

CERTIFICATE OF

OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

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

Parcel Number 15-3S-16-02134-000 **Building permit No.** 000025336

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

Permit Holder OWNER BUILDER **Waste:**

Owner of Building RICKY MAYO **Total:** 0.00

Location: 4844 NW LAKE JEFFERY RD, LAKE CITY, FL

Date: 09/12/2008

Wayne N. Rust

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)