

DATE 05/13/2005

Columbia County Building Permit

PERMIT

This Permit Expires One Year From the Date of Issue

000023142

APPLICANT JOHN RIESSELMANN PHONE 454.1956
ADDRESS _____ FL _____
OWNER JOHN RIESSELMANN PHONE 454.1956
ADDRESS 298 SE ROBINHOOD PLACE HIGH SPRINGS FL 32643
CONTRACTOR JOHN RIESSELMANN PHONE 454.1956
LOCATION OF PROPERTY _____

TYPE DEVELOPMENT FAMILY ROOM ADDITION ESTIMATED COST OF CONSTRUCTION 24000.00
HEATED FLOOR AREA 1500.00 TOTAL AREA 1500.00 HEIGHT 12.00 STORIES 1
FOUNDATION CONC WALLS FRAMED ROOF PITCH 3'12 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. _____ FLOOD ZONE XPS DEVELOPMENT PERMIT NO. _____

PARCEL ID 10-7S-17-09973-027 SUBDIVISION SHERWOOD FOREST
LOT 27 BLOCK _____ PHASE _____ UNIT 1 TOTAL ACRES _____

Culvert Permit No. _____ Culvert Waiver _____ Contractor's License Number _____ Applicant/Owner/Contractor _____
EXISTING 80-566 JLW RTJ N
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: 1 FOOT ABOVE ROAD.

Check # or Cash 1208

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 \$ 120.00 CERTIFICATION FEE \$ 7.50 SURCHARGE FEE \$ 7.50
MISC. FEES \$.00 ZONING CERT. FEE \$ 50.00 FIRE FEE \$ _____ WASTE FEE \$ _____
FLOOD ZONE DEVELOPMENT FEE \$ _____ CULVERT FEE \$ _____ TOTAL FEE 185.00
INSPECTORS OFFICE _____ CLERKS OFFICE _____

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

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

This Permit Must Be Prominently Posted on Premises During Construction

PLEASE NOTIFY THE COLUMBIA COUNTY BUILDING DEPARTMENT AT LEAST 24 HOURS IN ADVANCE OF EACH INSPECTION, IN ORDER THAT IT MAY BE MADE WITHOUT DELAY OR 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

Revised 9-23-01

For Office Use Only Application # OSOS-56 Date Received 5/13/05 By JW Permit # 23142
Application Approved by - Zoning Official BLK Date 13.05.05 Plans Examiner _____ Date _____
Flood Zone XPS Development Permit N/A Zoning A-3 Land Use Plan Map Category A-3
Comments _____

Applicants Name John Riesselmann Phone 386-454-1956
Address 298 SE Robinhood Pl, High Springs, FL 32643
Owners Name John Riesselmann Phone 386-454-1956
911 Address 298 SE Robinhood Pl, High Springs, FL 32643
Contractors Name owner Phone _____
Address _____
Fee Simple Owner Name & Address _____
Bonding Co. Name & Address _____
Architect/Engineer Name & Address Freeman Design, 161 NW Madison St, San
Mortgage Lenders Name & Address None LAKE CITY, FL
Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Energy
Property ID Number R09973-027 Estimated Cost of Construction 9,000.00
Subdivision Name Sherwood Forest Lot 27 Block _____ Unit 1 Phase _____
Driving Directions 441 So to Robinhood Pl, East to Second
dwellling in 2nd
Brown Brick Siding
Type of Construction FRAME Number of Existing Dwellings on Property _____
Total Acreage 1.66 Lot Size 29x189 Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive
Actual Distance of Structure from Property Lines - Front 79' Side 52.8' Side 117' Rear 63'
Total Building Height 12' Number of Stories 1 Heated Floor Area 18480 Roof Pitch 3/12

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.

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John Riesselmann
Owner Builder or Agent (Including Contractor)

STATE OF FLORIDA
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me
this _____ day of _____ 20____.
Personally known _____ or Produced Identification _____

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

Notary Signature _____



Engineers • Planners

161 N.W. Madison St., Suite 102
Lake City, Florida 32055
Tel: 386-758-4209
Fax: 386-758-4290

Monday, May 9, 2005

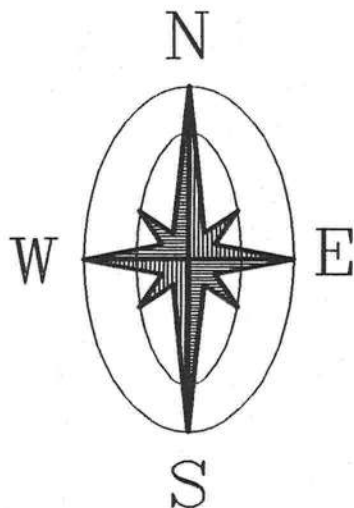
Columbia County Building Dept.
Lake City, FL. 32055

To Whom It May Concern;

I have inspected the structure for the Riesselmanns at 298 Robinhood Place. I have included as built drawings with my findings and I certify that this structure meets the Florida Building Code, 2001 edition. If you have any questions, please call me at (386) 758-4209.

Sincerely,

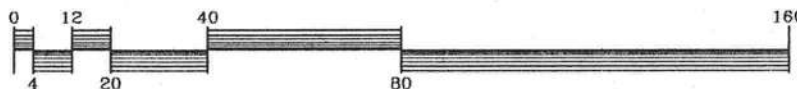
William H. Freeman, P.E.
President
Certificate of Authorization # 00008701



BOUNDARY SURVEY

LOT 27 OF SHERWOOD FOREST UNIT 1,
A SUBDIVISION AS PER PLAT THEREOF RECORDED IN
PLAT BOOK '4', PAGES 13 & 13A OF THE PUBLIC RECORDS OF
COLUMBIA COUNTY, FLORIDA

ADDRESS: 298 S.E. ROBINHOOD PLACE
HIGH SPRINGS, FL 32643



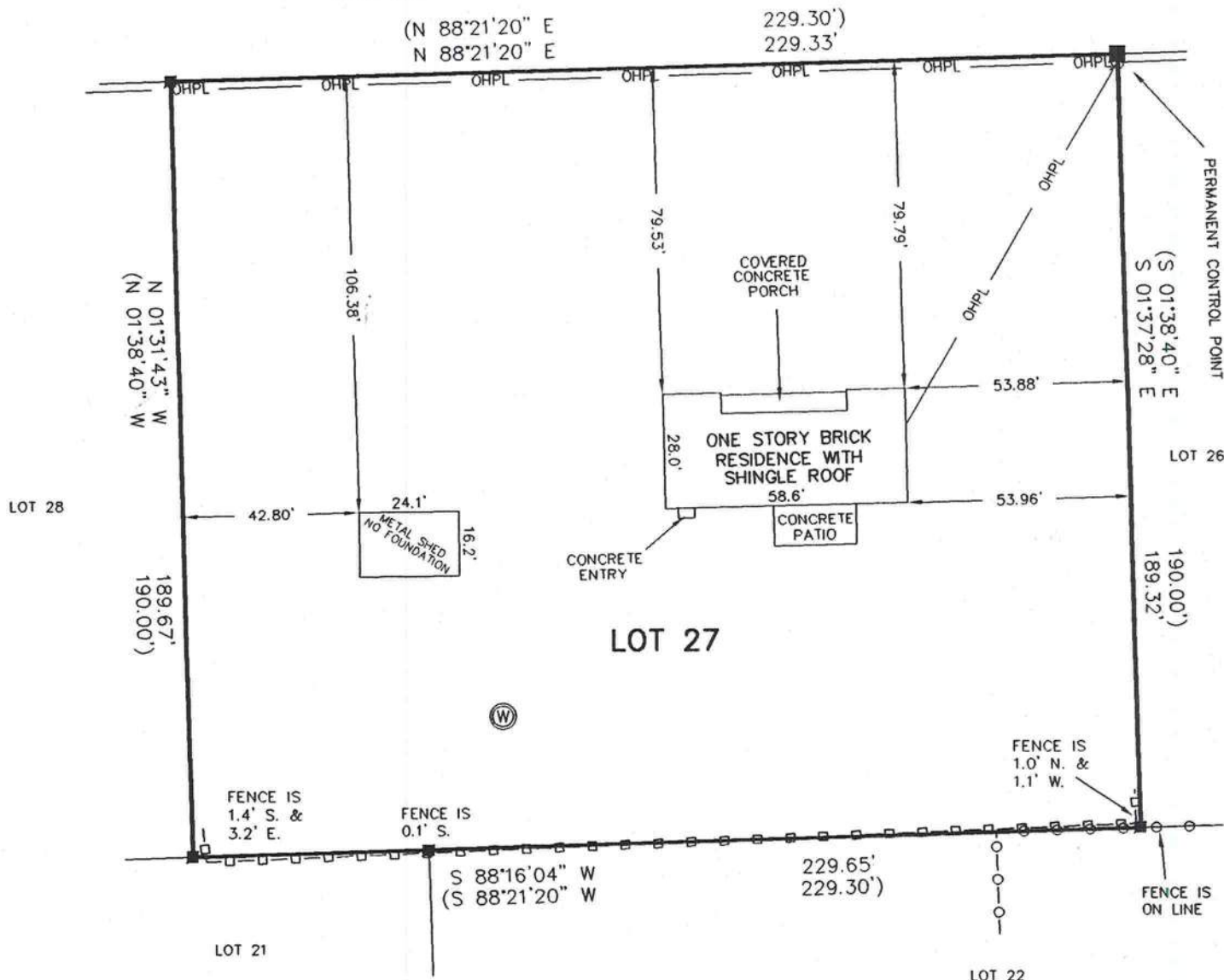
GRAPHIC SCALE: 1" = 40'

NOTE:
NO BUILDING SETBACK
LINES SHOWN ON SAID
RECORD PLAT

LEGEND

- (0.0) = RECORD PLAT BEARING & DISTANCE
- = FOUND 4" x 4" CONCRETE MONUMENT 'NO I.D.'
- = FOUND 4" x 4" CONCRETE MONUMENT 'PCP 753'
- ⊙ = POWER POLE
- OHPL = OVERHEAD POWER LINE
- x- = WIRE FENCE
- = WOOD FENCE
- = CHAIN LINK FENCE
- ⊙ = 4" WATER WELL

ROBINHOOD PLACE (60' RIGHT OF WAY)



FLOOD CERTIFICATION

THE LOT SHOWN HEREON LIES WITHIN ZONE 'X' AS DESIGNATED ON THE FLOOD
INSURANCE RATE MAP PANEL 120070-0280 B OF 600 FOR COLUMBIA COUNTY
FLORIDA. SAID MAP DESCRIBES ZONE 'X' AS BEING AREAS OUTSIDE 500-YEAR FLOOD.
EFFECTIVE DATE 1-6-1988

CERTIFIED TO: JOHN RIESSELMANN, SHARON L. RIESSELMANN,
TOUNDAS & KAUFMAN, P.A.,
ATTORNEYS' TITLE INSURANCE FUND, INC.

I HEREBY CERTIFY THAT A SURVEY OF THE HEREON DESCRIBED LAND WAS
MADE UNDER MY RESPONSIBLE DIRECTION AND THAT THIS IS A TRUE AND
CORRECT REPRESENTATION THEREOF TO THE BEST OF MY KNOWLEDGE AND
BELIEF AND FURTHER THAT THIS SURVEY MEETS THE MINIMUM TECHNICAL
STANDARDS AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL
SURVEYORS IN CHAPTER 61G17-6 FLORIDA ADMINISTRATIVE CODE,
PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

NOTES:

- BEARINGS BASED ON SAID RECORD PLAT DATUM FOR S.E. ROBINHOOD PLACE.
- NO UNDERGROUND INSTALLATIONS OR IMPROVEMENTS HAVE BEEN LOCATED EXCEPT AS NOTED.
- NO INSTRUMENTS OF RECORD REFLECTING EASEMENTS, RIGHTS OF WAY, AND OR OWNERSHIP WERE FURNISHED TO THIS SURVEYOR EXCEPT AS SHOWN.

TYPE SURVEY	FIELD WORK COMPLETED	DRAWING COMPLETED	PROJECT NO.	FIELD BOOK	PAGE
BOUNDARY SURVEY	05-10-04	05-12-04	04-118	63	69
FOUNDATION SURVEY					
FINAL SURVEY					

DAVID D. PARRISH LAND SURVEYING, INC.

12606 N.W. 142nd TERRACE, ALACHUA FL 32615 (386)462-5427
FAX (386)462-7789

DAVID D. PARRISH, P.L.S.

Registered Florida Land Surveyor No. 4789

05-12-04

Date Signed

REPRODUCTIONS OF THIS SURVEY ARE NOT VALID UNLESS SIGNED BY THE SURVEYOR AND SEALED WITH HIS EMBOSSED SURVEYOR'S SEAL, NUMBER 4789.

FLORIDA ENERGY EFFICIENCY CODE
FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

Project Name: Reisselmann Addition
Address:
City, State:
Owner:
Climate Zone: South
Builder:
Permitting Office: COZUMBA
Permit Number: 23142
Jurisdiction Number: 221000

1. New construction or existing New
2. Single family or multi-family Single family
3. Number of units, if multi-family 1
4. Number of Bedrooms 3
5. Is this a worst case? No
6. Conditioned floor area (ft²) 2040.8 ft²
7. Glass area & type Single Pane Double Pane
a. Clear glass, default U-factor 0.0 ft² 81.0 ft²
b. Default tint 0.0 ft² 0.0 ft²
c. Labeled U or SHGC 0.0 ft² 0.0 ft²
8. Floor types
a. Slab-On-Grade Edge Insulation R=0.0, 213.0(p) ft
b. N/A
c. N/A
9. Wall types
a. Frame, Wood, Exterior R=13.0, 1704.0 ft²
b. N/A
c. N/A
d. N/A
e. N/A
10. Ceiling types
a. Under Attic R=30.0, 2244.9 ft²
b. N/A
c. N/A
11. Ducts
a. Sup: Unc. Ret: Unc. AH: Garage Sup. R=6.0, 112.6 ft
b. N/A
12. Cooling systems
a. Central Unit Cap: 30.0 kBtu/hr SEER: 10.00
b. N/A
c. N/A
13. Heating systems
a. Electric Heat Pump Cap: 30.0 kBtu/hr HSPF: 7.00
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 (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating) PT, CF,

Glass/Floor Area: 0.04 Total as-built points: 26161 Total base points: 32232 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: 5/9/05
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:
[Seal of the State of Florida]

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

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	2040.8	32.50	11938.7	Double, Clear	N	1.5 6.0	45.0	31.93	0.94	1351.1		
				Double, Clear	E	1.5 6.0	30.0	68.60	0.92	1888.1		
				Double, Clear	E	1.5 4.0	6.0	68.60	0.83	340.1		
				As-Built Total:		81.0		3579.3				
WALL TYPES Area X BSPM = Points				Type	R-Value		Area X	SPM	= Points			
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior	13.0		1704.0	2.40	4089.6			
Exterior	1704.0	2.70	4600.8									
Base Total: 1704.0 4600.8				As-Built Total:		1704.0		4089.6				
DOOR TYPES Area X BSPM = Points				Type			Area X	SPM	= Points			
Adjacent	0.0	0.00	0.0	Exterior Wood			34.7	9.40	326.0			
Exterior	34.7	6.40	222.0									
Base Total: 34.7 222.0				As-Built Total:		34.7		326.0				
CEILING TYPES Area X BSPM = Points				Type	R-Value		Area X	SPM X SCM	= Points			
Under Attic	2040.8	2.80	5714.2	Under Attic	30.0		2244.9	2.77 X 1.00	6218.3			
Base Total: 2040.8 5714.2				As-Built Total:		2244.9		6218.3				
FLOOR TYPES Area X BSPM = Points				Type	R-Value		Area X	SPM	= Points			
Slab	213.0(p)	-20.0	-4260.0	Slab-On-Grade Edge Insulation	0.0		213.0(p)	-20.00	-4260.0			
Raised	0.0	0.00	0.0									
Base Total: -4260.0				As-Built Total:		213.0		-4260.0				
INFILTRATION Area X BSPM = Points				Area X SPM = Points								
2040.8 18.79 38346.6				2040.8 18.79 38346.6								
Summer Base Points: 56562.3				Summer As-Built Points: 48299.8								
Total Summer Points	X	System Multiplier	= Cooling Points	Total Component	X	Cap Ratio	X	Duct Multiplier	X	System Multiplier	X	Credit Multiplier = Cooling Points
				(DM x DSM x AHU)								
56562.3		0.4266	24129.5	48299.8	1.000	(1.073 x 1.165 x 1.00)	0.341	0.902			18581.2	
				48299.8	1.00	1.250	0.341	0.902			18581.2	

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

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	2040.8	2.36	866.9	Double, Clear	N	1.5	6.0	45.0	4.38	0.99	195.4
				Double, Clear	E	1.5	6.0	30.0	3.30	1.02	101.1
				Double, Clear	E	1.5	4.0	6.0	3.30	1.03	20.5
				As-Built Total:			81.0			317.0	
WALL TYPES Area X BWPM = Points				Type	R-Value			Area X WPM = Points			
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior	13.0			1704.0	0.60	1022.4	
Exterior	1704.0	0.60	1022.4								
Base Total: 1704.0 1022.4				As-Built Total:			1704.0 1022.4				
DOOR TYPES Area X BWPM = Points				Type	R-Value			Area X WPM = Points			
Adjacent	0.0	0.00	0.0	Exterior Wood				34.7	2.80	97.1	
Exterior	34.7	1.80	62.4								
Base Total: 34.7 62.4				As-Built Total:			34.7 97.1				
CEILING TYPES Area X BWPM = Points				Type	R-Value			Area X WPM X WCM = Points			
Under Attic	2040.8	0.10	204.1	Under Attic	30.0			2244.9	0.10 X 1.00		224.5
Base Total: 2040.8 204.1				As-Built Total:			2244.9 224.5				
FLOOR TYPES Area X BWPM = Points				Type	R-Value			Area X WPM = Points			
Slab	213.0(p)	-2.1	-447.3	Slab-On-Grade Edge Insulation	0.0			213.0(p)	-2.10	-447.3	
Raised	0.0	0.00	0.0								
Base Total: -447.3				As-Built Total:			213.0 -447.3				
INFILTRATION Area X BWPM = Points				Area X WPM = Points							
2040.8 -0.06 -122.4				2040.8 -0.06 -122.4							
Winter Base Points: 1586.1				Winter As-Built Points: 1091.2							
Total Winter Points	X System Multiplier	= Heating Points		Total Component	X Cap Ratio	X Duct Multiplier	X System Multiplier	X Credit Multiplier	= Heating Points		
				(DM x DSM x AHU)							
1586.1	0.6274	995.1		1091.2	1.000	(1.099 x 1.137 x 1.00)	0.487	0.950	631.0		
				1091.2	1.00	1.250	0.487	0.950	631.0		

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #:

BASE					AS-BUILT					
WATER HEATING										
Number of Bedrooms	X	Multiplier	=	Total	Tank Volume	EF	Number of Bedrooms	X	Tank X Ratio	Multiplier X Credit = Total Multiplier
3		2369.00		7107.0	50.0	0.90	3		1.00	2316.36 1.00 6949.1
					As-Built Total:					6949.1

CODE COMPLIANCE STATUS											
BASE						AS-BUILT					
Cooling Points	+	Heating Points	+	Hot Water Points	= Total Points	Cooling Points	+	Heating Points	+	Hot Water Points	= Total Points
24129		995		7107	32232	18581		631		6949	26161

PASS



Code Compliance Checklist
Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	612.1	Comply with efficiency requirements in Table 6-12. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	612.1	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%.	
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	604.1, 602.1	Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 86.6

The higher the score, the more efficient the home.

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 30.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 10.00
4. Number of Bedrooms	3	b. N/A	
5. Is this a worst case?	No	c. N/A	
6. Conditioned floor area (ft²)	2040.8 ft²		
7. Glass area & type	Single Pane Double Pane	13. Heating systems	
a. Clear - single pane	0.0 ft² 81.0 ft²	a. Electric Heat Pump	Cap: 30.0 kBtu/hr
b. Clear - double pane	0.0 ft² 0.0 ft²		HSPF: 7.00
c. Tint/other SHGC - single pane	0.0 ft² 0.0 ft²	b. N/A	
d. Tint/other SHGC - double pane		c. N/A	
8. Floor types		14. Hot water systems	
a. Slab-On-Grade Edge Insulation	R=0.0, 213.0(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, 1704.0 ft²	(HR-Heat recovery, Solar	
b. N/A		DHP-Dedicated heat pump)	
c. N/A		15. HVAC credits	PT, CF,
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, 2244.9 ft²	MZ-C-Multizone cooling,	
b. N/A		MZ-H-Multizone heating)	
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 112.6 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: _____ 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 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 352/468-1824.*

Energy Gauge v3.0 Version: FLRCPB v3.30)

Residential System Sizing Calculation

Summary

Project Title:
Reisselmann Addition

Code Only
Professional Version
Climate: South

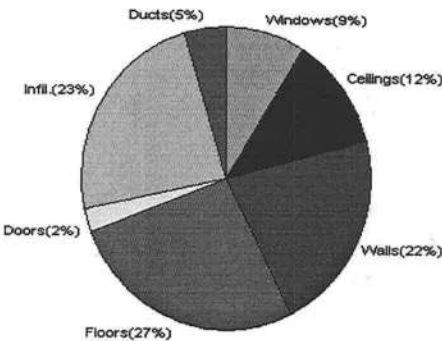
5/9/2005

Location for weather data: Orlando - User customized: Latitude(28) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(44gr.)			
Winter design temperature	38 F	Summer design temperature	98 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	32 F	Summer temperature difference	23 F
Total heating load calculation	20585 Btuh	Total cooling load calculation	22508 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	145.7 30000	Sensible (SHR = 0.5)	85.4 15000
Heat Pump + Auxiliary(0.0kW)	145.7 30000	Latent	303.1 15000
		Total (Electric Heat Pump)	133.3 30000

WINTER CALCULATIONS

Winter Heating Load (for 2041 sqft)

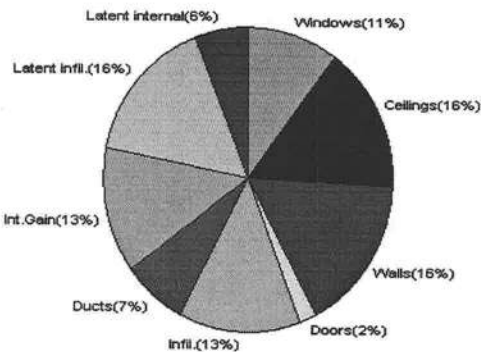
Load component		Load	
Window total	81 sqft	1879	Btuh
Wall total	1704 sqft	4430	Btuh
Door total	35 sqft	510	Btuh
Ceiling total	2245 sqft	2469	Btuh
Floor total	213 ft	5517	Btuh
Infiltration	136 cfm	4799	Btuh
Subtotal		19605	Btuh
Duct loss		980	Btuh
TOTAL HEAT LOSS		20585	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 2041 sqft)

Load component		Load	
Window total	81 sqft	2370	Btuh
Wall total	1704 sqft	3647	Btuh
Door total	35 sqft	426	Btuh
Ceiling total	2245 sqft	3502	Btuh
Floor total		0	Btuh
Infiltration	119 cfm	3018	Btuh
Internal gain		3000	Btuh
Subtotal(sensible)		15963	Btuh
Duct gain		1596	Btuh
Total sensible gain		17559	Btuh
Latent gain(infiltration)		3569	Btuh
Latent gain(internal)		1380	Btuh
Total latent gain		4949	Btuh
TOTAL HEAT GAIN		22508	Btuh



EnergyGauge® System Sizing based on ACCA Manual J.

PREPARED BY: John H. Free

DATE: 5/9/05

System Sizing Calculations - Winter

Residential Load - Component Details

Project Title:
Reisselmann Addition

Code Only
Professional Version
Climate: South

Reference City: Orlando (User customized) Winter Temperature Difference: 32.0 F

5/9/2005

Window	Panes/SHGC/Frame/U	Orientation	Area X	HTM=	Load
1	2, Clear, Metal, DEF	N	45.0	23.2	1044 Btuh
2	2, Clear, Metal, DEF	E	30.0	23.2	696 Btuh
3	2, Clear, Metal, DEF	E	6.0	23.2	139 Btuh
Window Total			81		1879 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Exterior	13.0	1704	2.6	4430 Btuh
Wall Total			1704		4430 Btuh
Doors	Type		Area X	HTM=	Load
1	Wood - Exter		35	14.7	510 Btuh
Door Total			35		510Btuh
Ceilings	Type	R-Value	Area X	HTM=	Load
1	Under Attic	30.0	2245	1.1	2469 Btuh
Ceiling Total			2245		2469Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab-On-Grade Edge Insul	0	213.0 ft(p)	25.9	5517 Btuh
Floor Total			213		5517 Btuh
Infiltration	Type	ACH X	Building Volume	CFM=	Load
	Natural	0.40	20408(sqft)	136	4799 Btuh
	Mechanical			0	0 Btuh
Infiltration Total				136	4799 Btuh

Totals for Heating	Subtotal	19605 Btuh
	Duct Loss(using duct multiplier of 0.05)	980 Btuh
	Total Btuh Loss	20585 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)

System Sizing Calculations - Summer

Residential Load - Component Details

Project Title:
Reisselmann Addition

Code Only
Professional Version
Climate: South

Reference City: Orlando (User customized) Summer Temperature Difference: 23.0 F 5/9/2005

Window	Type		Overhang		Window Area(sqft)			HTM		Load
	Panes/SHGC/U/InSh/ExSh Ornt		Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded	
1	2, Clear, DEF, B, N	N	1.5	6	45.0	0.0	45.0	17	17	765 Btuh
2	2, Clear, DEF, B, N	E	1.5	6	30.0	4.0	26.0	17	48	1317 Btuh
3	2, Clear, DEF, B, N	E	1.5	4	6.0	0.0	6.0	17	48	288 Btuh
Window Total					81					2370 Btuh
Walls 1	Type	R-Value			Area			HTM		Load
	Frame - Exterior	13.0			1704.0			2.1		3647 Btuh
Wall Total					1704.0					3647 Btuh
Doors 1	Type				Area			HTM		Load
	Wood - Exter				34.7			12.3		426 Btuh
Door Total					34.7					426 Btuh
Ceilings 1	Type/Color	R-Value			Area			HTM		Load
	Under Attic/Dark	30.0			2244.9			1.6		3502 Btuh
Ceiling Total					2244.9					3502 Btuh
Floors 1	Type	R-Value			Size			HTM		Load
	Slab-On-Grade Edge Insulation	0.0			213.0 ft(p)			0.0		0 Btuh
Floor Total					213.0					0 Btuh
Infiltration	Type	ACH			Volume			CFM=		Load
	Natural	0.35			20408			119.3		3018 Btuh
	Mechanical							0		0 Btuh
	Infiltration Total								119	

Internal gain	Occupants		Btuh/occupant		Appliance	Load
	6		X 300 +			
					1200	3000 Btuh

Totals for Cooling	Subtotal					15963 Btuh
	Duct gain(using duct multiplier of 0.10)					1596 Btuh
	Total sensible gain					17559 Btuh
	Latent infiltration gain (for 44 gr. humidity difference)					3569 Btuh
	Latent occupant gain (6 people @ 230 Btuh per person)					1380 Btuh
	Latent other gain					0 Btuh
	TOTAL GAIN					22508 Btuh

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