District No. 1 - Ronald Williams District No. 2 - Rusty DePratter District No. 3 - Bucky Nash District No. 4 - Everett Phillips District No. 5 - Tim Murphy

# BUILDING AND ZONING DEPARTMENT



BOARD OF COUNTY COMMISSIONERS • COLUMBIA COUNTY

July 20, 2017

James L Hair II 275 NW Stephen Foster Dr. White Springs, FL 32096

RE: 1611-58 - Expired Application

This permit application has expired and is being returned to the contractor of record on the application. If you wish to continue with the project, you may re-apply at your convenience.

Be aware our permit applications have been updated and you may be required to provide additional documentation. See applications at <a href="http://www.columbiacountyfla.com/BuildingandZoning.asp">http://www.columbiacountyfla.com/BuildingandZoning.asp</a>.

Contact the Building Department at 386-758-1008 or email: <a href="mailto:laurie-hodson@columbiacountyfla.com">laurie-hodson@columbiacountyfla.com</a>, For any assistance or questions regarding this returned application or your new submittal.

Sincerely,

Laurie Hodson, Office Manager Columbia County Building Department laurie hodson@columbiacountyfla.com

PH: 386-758-1007 FX: 386-758-2160



### COLUMBIA COUNTY BUILDING DEPARTMENT RESIDENTIAL CHECK LIST

MINIMUM PLAN REQUIREMENTS: FLORIDA BUILDING CODE RESIDENTIAL 2014 EFFECTIVE 1 JULY 2015 AND THE NATIONAL ELECTRICAL 2011 EFFECTIVE 1 JULY 2015

#### ALL REQUIREMENTS ARE SUBJECT TO CHANGE

ALL BUILDING PLANS MUST INDICATE COMPLIANCE WITH THE CURRENT 2014 FLORIDA BUILDING CODES RESIDENTIAL, EFFECTIVE 1 JULY 2015. NATIONAL ELECTRICAL CODE 2011 EFFECTIVE 1 JULY 2015. ALL PLANS OR DRAWINGS SHALL PROVIDE 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 SPEEDS ARE PER FLORIDA BUILDING CODE FIGURE 1609-A
THROUGH 1609-C ULTIMATE DESIGN WIND SPEEDS FOR RISK CATEGORY AND BUILDINGS AND OTHER STRUCTURES
Revised 7/1/15

Total (Sq. Ft.) under roof

Designers name and signature shall be on all documents and a licensed architect or engineer, signature and official embossed seal shall

**GENERAL REQUIREMENTS:** 

All drawings must be clear, concise, drawn to scale, details that are not used shall be marked void

be affixed to the plans and documents as per the FLORIDA BUILDING CODES RESIDENTIAL R101.2.1

APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

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

Condition space (Sq. Ft.)

Si	te Plan information including:			
4	Dimensions of lot or parcel of land	V		
	Dimensions of all building set backs	/		
6	Location of all other structures (include square footage of structures) on parcel, existing or proposed well and septic tank and all utility easements.	V		
7	Provide a full legal description of property.	V		
Wi	ind-load Engineering Summary, calculations and any details are required.			
	GENERAL REQUIREMENTS:		s to Inclu	
	APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	C	Box shal ircled as plicable	l be
8	Plans or specifications must show compliance with FBCR Chapter 3	ШШ	ШП	ШШ
		YES	NO	N/A
9	Basic wind speed (3-second gust), miles per hour	/		
10	(Wind exposure – if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated)	/		
11	Wind importance factor and nature of occupancy	<b>V</b>		
12	The applicable internal pressure coefficient, Components and Cladding	1		
13	The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component, cladding materials not specifally designed by the registered design professional.	<b>✓</b>		
Ele	evations Drawing including:	,		
14	All side views of the structure	1		
15	Roof pitch	V		
16	Overhang dimensions and detail with attic ventilation	1		
17	Location, size and height above roof of chimneys	1	1 4	
18	Location and size of skylights with Florida Product Approval	1		
18	Number of stories	1		
20A	Building height from the established grade to the roofs highest peak	V		

Items to Include-Each Box shall be

Circled as

Applicable

No

ШШП

N/A

ШШ

Yes

ШШП

Fle	oor Plan including:			
	Dimensioned area plan showing rooms, attached garage, breeze ways, covered porches, deck,	/		T
20	balconies	V/		
21	Raised floor surfaces located more than 30 inches above the floor or grade	1		
22	All exterior and interior shear walls indicated	1		
23	Shear wall opening shown (Windows, Doors and Garage doors)	V		
24	Show compliance with Section FBCR 310 Emergency escape and rescue opening shown in each			
	bedroom (net clear opening shown) and Show compliance with Section FBC 1405.13.2 where the	/		
	opening of an operable window is located more than 72 inches above the finished grade or surface	V		
	below, the lowest part of the clear opening of the window shall be a minimum of 24 inches above			
	the finished floor of the room in which the window is located. Glazing between the floor and 24 inches shall be fixed or have openings through which a 4-inch-diameter sphere cannot pass.			
25	Safety glazing of glass where needed	1	-	-
23	Fireplaces types (gas appliance) (vented or non-vented) or wood burning with Hearth	· /	-	_
26	(see chapter 10 and chapter 24 of FBCR)	/		
20	(see chapter to and chapter 24 of 1 Bert)			
27	Show stairs with dimensions (width, tread and riser and total run) details of guardrails, Handrails	1		
	Show stands with a market and rises and real run, details of guardrans, fluidans	*/		
28	Identify accessibility of bathroom (see FBCR SECTION 320)			
Al	materials placed within opening or onto/into exterior walls, soffits or roofs shall	have F	lorida	produc
	proval number and mfg. installation information submitted with the plans			p = 0 = = = =
	e Florida product approval form)			
(50	e i fortai product approvai form)			
1870	GENERAL REQUIREMENTS:	Item	s to Incl	ude-
	APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Box sha	
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	CR 403: Foundation Plans	(	Circled a	S
<u>FB</u>	CR 403: Foundation Plans  Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size	A	Circled a	s le
29	CR 403: Foundation Plans  Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.	A	Circled a	s le
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29 30 31 32 33 FB 34 35 FB 36	CR 403: Foundation Plans  Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.  All posts and/or column footing including size and reinforcing Any special support required by soil analysis such as piling.  Assumed load-bearing valve of soil Pound Per Square Foot Location of horizontal and vertical steel, for foundation or walls (include # size and type) For structure with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an grounding electrode system. Per the National Electrical Code article 250.52.3  CR 506: CONCRETE SLAB ON GRADE Show Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed) Show control joints, synthetic fiber reinforcement or welded fire fabric reinforcement and Supports  CR 318: PROTECTION AGAINST TERMITES Indicate on the foundation plan if soil treatment is used for subterranean termite prevention or Submit other approved termite protection methods. Protection shall be provided by registered termiticides  CR 606: Masonry Walls and Stem walls (load bearing & shear Walls)	YES	Circled a	s le

Metal frame shear wall and roof systems shall be designed, signed and sealed by Florida Prof. Engineer or Architect

Floor Framing System: First and/or second story Floor truss package shall including layout and details, signed and sealed by Florida Registered 39 Professional Engineer Show conventional floor joist type, size, span, spacing and attachment to load bearing walls, stem walls and/or priers 41 Girder type, size and spacing to load bearing walls, stem wall and/or priers Attachment of joist to girder 42 Wind load requirements where applicable 43 Show required under-floor crawl space Show required amount of ventilation opening for under-floor spaces 45 46 Show required covering of ventilation opening Show the required access opening to access to under-floor spaces 47 Show the sub-floor structural panel sheathing type, thickness and fastener schedule on the edges & intermediate of the areas structural panel sheathing 48 Show Draftstopping, Fire caulking and Fire blocking 49 Show fireproofing requirements for garages attached to living spaces, per FBCR section 302.6 Provide live and dead load rating of floor framing systems (psf). FBCR CHAPTER 6 WOOD WALL FRAMING CONSTRUCTION Items to Include-GENERAL REQUIREMENTS: Each Box shall be APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL Circled as Applicable YES NO N/A Stud type, grade, size, wall height and oc spacing for all load bearing or shear walls Fastener schedule for structural members per table IRC 602.3 are to be shown Show Wood structural panel's sheathing attachment to studs, joist, trusses, rafters and structural members, showing fastener schedule attachment on the edges & intermediate of the areas structural panel sheathing Show all required connectors with a max uplift rating and required number of connectors and oc spacing for continuous connection of structural walls to foundation and roof trusses or Show sizes, type, span lengths and required number of support jack studs, king studs for shear wall opening and girder or header per FBCB 2308.9.5 Indicate where pressure treated wood will be placed Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing edges & intermediate areas A detail showing gable truss bracing, wall balloon framing details or/ and wall hinge bracing detail FBCR :ROOF SYSTEMS: 60 Truss design drawing shall meet section FBCR 802.1.7.1 Wood trusses 61 Include a layout and truss details, signed and sealed by Florida Professional Engineer Show types of connector's assemblies' and resistance uplift rating for all trusses and rafters Show gable ends with rake beams showing reinforcement or gable truss and wall bracing details Provide dead load rating of trusses FBCR 802: Conventional Roof Framing Layout 65 Rafter and ridge beams sizes, span, species and spacing 66 Connectors to wall assemblies' include assemblies' resistance to uplift rating 67 Valley framing and support details 68 Provide dead load rating of rafter system FBCR 803 ROOF SHEATHING Include all materials which will make up the roof decking, identification of structural panel sheathing, grade, thickness

Show fastener Size and schedule for structural panel sheathing on the edges & intermediate areas

RO	ROOF ASSEMBLIES FRC Chapter 9				
71	Include all materials which will make up the roof assembles covering	V	-		
72	Submit Florida Product Approval numbers for each component of the roof assembles covering	7			

### FBCR Energy Conservation R.401

Residential construction shall comply with this code by using the following compliance methods in the Residential buildings compliance methods. **Two of the required forms are to be submitted**, R 402-2014 As an alternative to the computerized Compliance Method A, the Alternate Residential Point System Method hand calculation, Alternate Form R 402-2014, may be used. All requirements specific to this calculation are located in Sub appendix C to Appendix G. Buildings complying by this alternative shall meet all mandatory requirements of this chapter. Computerized versions of the Alternate Residential Point System Method shall not be acceptable for code compliance.

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Each E	to Includ Box shall reled as plicable	l be
MV== No.		YES	NO	N/A
73	Show the insulation R value for the following areas of the structure	/		
74	Attic space	1		
75	Exterior wall cavity	1		
76	Crawl space	1		
н	VAC information			
77	Submit two copies of a Manual J sizing equipment or equivalent computation study			
78	Exhaust fans shown in bathrooms Mechanical exhaust capacity of 50 cfm intermittent or			
/0	20 cfm continuous required	V /		
79	Show clothes dryer route and total run of exhaust duct			
Plu	umbing Fixture layout shown	/		
	All fixtures waste water lines shall be shown on the foundation plan	1		
81	Show the location of water heater	/		
Pr	ivate Potable Water	/		
82	Pump motor horse power	1	T	
		1/		
	Rating of cycle stop valve if used	/		
	ectrical layout shown including			
85	Show Switches, receptacles outlets, lighting fixtures and Ceiling fans	1		
86	Show all 120-volt, single phase, 15- and 20-ampere branch circuits outlets required to be protected	1		
	by Ground-Fault Circuit Interrupter (GFCI) Article 210.8 A			
87	Show the location of smoke detectors & Carbon monoxide detectors	1		
88	Show service panel, sub-panel, location(s) and total ampere ratings	1/		
89	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. Indicate if the utility company service entrance cable will be of the overhead or underground type.	1		
90 91	For structures with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an Grounding electrode system. Per the National Electrical Code article 250.52.3  Appliances and HVAC equipment and disconnects  Show all 120-volt, single phase, 15- and 20-ampere branch circuits supplying outlets installed in dwelling unit family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreation rooms, closets, hallways, or similar rooms or areas shall be protected by	<b>/</b>		

# GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

Items to Include-Each Box shall be Circled as Applicable

### THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

		YES	NO	N/A
92	<b>Building Permit Application</b> A current Building Permit Application is to be completed, by following the Checklist all supporting documents must be submitted.  There is a \$15.00 application fee. The completed application with attached documents and application fee can be mailed.	~		
93	Parcel Number The parcel number (Tax ID number) from the Property Appraisers Office (386) 758-1083 is required. A copy of property deed is also required. <a href="https://www.columbiacountyfla.com">www.columbiacountyfla.com</a>	/		
94	Environmental Health Permit or Sewer Tap Approval A copy of a approved Columbia County Environmental Health (386) 758-1058	/		
95	City of Lake City A City Water and/or Sewer letter. Call 386-752-2031	nyx		
96	Toilet facilities shall be provided for all construction sites	/		
97	<b>Town of Fort White</b> (386) 497-2321 If the parcel in the application for building permit is within the Corporate city limits of Fort White, an approval land use development letter issued by the Town of Fort is required to be submitted with the application for a building permit.	2/2		
98	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 a 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 8.5.2 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 8.5.3 of the Columbia County Land Development Regulations	1		
99	<b>CERTIFIED FINISHED FLOOR ELEVATIONS</b> will be required on any project where the approved FIRM Flood Maps show the property is in a AE, Floodway, and AH flood zones. Additionally One Foot Rise letters are required for AE and AH zones. In the Floodway Flood zones a Zero Rise letter is required.	1		
100	A Flood development permit is also required for AE, Floodway & AH. Development permit cost is \$50.00	1		
101	<b>Driveway Connection:</b> 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. County Public Works Dept. determines the size and length of every culvert before instillation and completes a final inspection before permanent power is granted. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver (\$50.00) Separate Check when issued. If the project is to be located on an F.D.O.T. maintained road, then an F.D.O.T. access permit is required.	/		
102	<b>911 Address:</b> An application for a 911address must be applied for and <b>received</b> through the Columbia County Emergency Management Office of 911 Addressing Department (386) 758-1125.	/		

<u>Disclosure Statement for Owner Builders</u> If you as the applicant will be acting as an owner/builder under section 489.103(7) of the Florida Statutes, submit the required owner builder disclosure statement form.

### **Notice Of Commencement**

A notice of commencement form **recorded** in the Columbia County Clerk Office is required to be filed with the building department Before Any Inspections can be preformed.

Section R101.2.1 of the Florida Building Code Residential:

The provisions of Chapter 1, Florida Building Code shall govern the administration and enforcement of the Florida Building Code, Residential.

Section 105 of the Florida Building Code defines the:

### Time limitation of application.

An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application has been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated.

#### Single-family residential dwelling.

Section 105.3.4 A building permit for a single-family residential dwelling must be issued within 30 working days of application therefor unless unusual circumstances require a longer time for processing the application or unless the permit application fails to satisfy the Florida Building Code or the enforcing agency's laws or ordinances.

#### Permit intent.

Section 105.4.1: A permit issued shall be constructed to be a license to proceed with the work and not as authority to violate, cancel, alter or set aside any of the provisions of the technical codes, nor shall issuance of a permit prevent the building official from thereafter requiring a correction of errors in plans, construction or violations of this code. Every permit issued shall become invalid unless the work authorized by such permit is commenced within six months after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of six months after the time the work is commenced.

### If work has commenced.

Section 105.4.1.1: If work has commenced and the permit is revoked, becomes null and void, or expires because of lack of progress or abandonment, a new permit covering the proposed construction shall be obtained before proceeding with the work.

### New Permit.

Section 105.4.1.2: If a new permit is not obtained within 180 days from the date the initial permit became null and void, the building official is authorized to require that any work which has been commenced or completed be removed from the building site. Alternately, a new permit may be issued on application, providing the work in place and required to complete the structure meets all applicable regulations in effect at the time the initial permit became null and void and any regulations which may have become effective between the date of expiration and the date if issuance of the new permit.

#### Work Shall Be:

Section 105.4.1.3: Work shall be considered to be in active progress when the permit has received an approved inspection within 180 days. This provision shall not be applicable in case of civil commotion or strike or when the building work is halted due directly to judicial injunction, order or similar process.

#### The Fee:

Section 105.4.1.4: The fee for renewal reissuance and extension of a permit shall be set forth by the administrative authority.

### **Notification:**

When the application is approved for permitting the applicant will be notified by phone as to the status by the Columbia County Building & Zoning Department.

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			λ			
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						
	in the second se					
6. NEW EXTERIOR						
ENVELOPE PRODUCTS						
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.						
Contractor OR Agent Signature	Date	NOTES:				

# **Project Summary**



Job: 1

Date: Jan 09, 2017

DL Williams Heating & C... By:

Plan: 1

# **Project Information**

For:

Suwannee River Campfire Ministries Columbia County, FI

Notes:



EXAMINE

# **Design Information**

Weather:

Gainesville Regional AP, FL, US

## Winter Design Conditions

Summer	Design	Conditions
--------	--------	------------

Outside db Inside db	33 68	°F °F	Outside db Inside db	92 75	°F °F
Design TD	35	°F	Design TD	17	۰F
			Daily range	M	
			Relative humidity	50	%
			Moisture difference	47	ar/lb

### **Heating Summary**

## Sensible Cooling Equipment Load Sizing

Structure Ducts Central vent (0 cfm) Humidification Piping	20878 9068 0 0	Btuh Btuh Btuh Btuh Btuh	Structure Ducts Central vent (0 cfm) Blower	21929 Btuh 11345 Btuh 0 Btuh 0 Btuh
Equipment load Infil	29946 tration	Btuh	Use manufacturer's data Rate/swing multiplier Equipment sensible load	n 0.97 32276 Btuh

#### Infiltration

Latent Cooling	Equipment Load	Sizing
----------------	----------------	--------

Construction quality		Average	Latent Cooling Equipm	ent Load	d Sizi
Fireplaces		Ō	Structure	2658	Btuh
			Ducts	2438	Btuh
700	Heating	Cooling	Central vent (0 cfm)	0	Btuh
Area (ft²) Volume (ft³)	2223 21744	2223 21744	Equipment latent load	5097	Btuh
Air changes/hour	0.32	0.16	Equipment total load	37373	Btuh
Equiv. AVF (cfm)	116	58	Req. total capacity at 0.70 SHR	3.8	ton

### **Heating Equipment Summary**

### **Cooling Equipment Summary**

Make	Generic			Make	Generic			
Trade				Trade				
Model	SEER 7.0, HSPF 5.8			Cond	SEER 7.0, HS	SPF 5.8		
AHRI ref				Coil				
F.C.:			HODE	AHRI ref				
Efficiency		5.8	HSPF	Efficiency		7.9 EER,	7 SEEF	3
Heating inp	out			Sensible c	ooling		30708	Btuh
Heating out	tput	43650	Btuh @ 47°F	Latent coo			13160	
Temperatu		27	°F	Total cooli			43868	
Actual air fl	ow	1462	cfm	Actual air f			1462	
Air flow fac		0.049		Air flow fac			0.044	The state of the s
Static press			in H2O					
Coope there	Suite	0.50	III HZU	Static pres				in H2O
Space then	mostat			Load sens	ible heat ratio		0.87	

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



2017-Jan-10 12:01:08

# **Load Short Form**



Job: 1

Date: Jan 09, 2017

DL Williams Heating & C...

Plan: 1

# **Project Information**

For:

Suwannee River Campfire Ministries

Columbia County, FI

		Desig	n Information		
	Htg	Clg		Infiltration	
Outside db (°F)	33	92	Method	Simplified	
Inside db (°F)	68	75	Construction quality	Average	
Design TD (°F)	35	17	Fireplaces	Wordgo	
Daily range		M			
Inside humidity (%)	30	50			
Moisture difference (gr/lb)	8	47			

### **HEATING EQUIPMENT**

### **COOLING EQUIPMENT**

Make	Generic			Make	Generic	
Trade				Trade		
Model	SEER 7.0, HSPF 5.8			Cond	SEER 7.0, H	ISPF 5.8
AHRI ref				Coil		
				AHRI ref		
Efficiency		5.8 HSPF		Efficiency		7.9 EER, 7 SEER
Heating inp				Sensible co	ooling	30708 Btuh
Heating out		43650	Btuh @ 47°F	Latent cool	ling	13160 Btuh
Temperatur		27	°F	Total coolir	•	43868 Btuh
Actual air flo		1462	- 10 Marie 10	Actual air f		1462 cfm
Air flow fact		0.049		Air flow fac	tor	0.044 cfm/Btuh
Static press		0.50	in H2O	Static pres		0.50 in H2O
Space therr	mostat			Load sensi	ble heat ratio	0.87

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
master bed liv/kit family loft loft stair1	480 858 624 240 21	8786 11842 4749 3112 1457	8648 13542 7841 2378 866	429 578 232 152 71	380 595 345 104 38
Entire House Other equip loads Equip. @ 0.97 RSM Latent cooling	2223	29946 0	33275 0 32276 5097	1462	1462
TOTALS	2223	29946	37373	1462	1462

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



# FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Mr and Mr	rs Hair	Builder Name:	
Street: City, State, Zip: Lake City	, FL , 32055	Permit Office: Columbia	
Owner:	,12,32033	Permit Number: Jurisdiction:	
Design Location: FL, Gaine	sville	County:: Columbia (Florida Climate	Zone 2)
New construction or existing	New (From Plans)	9. Wall Types (2446.0 sqft.)	Insulation Area
2. Single family or multiple famil		a. Frame - Wood, Exterior	R=19.0 2446.00 ft <sup>2</sup>
3. Number of units, if multiple fa		b. N/A	R= ft²
4. Number of Bedrooms	3	c. N/A d. N/A	R= ft²
5. Is this a worst case?	No	10. Ceiling Types (1321.0 sqft.)	R= ft² Insulation Area
Conditioned floor area above		a. Under Attic (Vented)	R=30.0 787.00 ft <sup>2</sup>
	TO 100 TO	b. Cathedral/Single Assembly (Vented) c. N/A	
Conditioned floor area below	grade (ft²) 0	11. Ducts	R= ft² R ft²
	escription Area	a. Sup: 1st Floor, Ret: 1st Floor, AH: 1st	t Floor 6 264.2
	U=0.40 167.00 ft <sup>2</sup> C=0.25	b. Sup: Loft, Ret: Loft, AH: Loft	6 210.8
b. U-Factor: N/A	ft²	12. Cooling systems	kBtu/hr Efficiency
SHGC:	:	a. Central Unit	13.5 SEER:15.00
c. U-Factor: N/A	ft²	b. Central Unit	6.2 SEER:15.00
SHGC: d. U-Factor: N/A		13. Heating systems	kBtu/hr Efficiency
d. U-Factor: N/A SHGC:	ft²	a. Electric Heat Pump	14.4 HSPF:8.20
Area Weighted Average Overh	ang Depth: 1.000 ft.	b. Electric Heat Pump	6.8 HSPF:8.20
Area Weighted Average SHG		14. Hot water systems	
8. Floor Types (2108.0 sqft.)	Insulation Area	a. Electric	Cap: 50 gallons
a. Crawlspace	R=19.0 1321.00 ft <sup>2</sup>	b. Conservation features	EF: 0.920
<ul> <li>b. Floor Over Other Space</li> <li>c. N/A</li> </ul>	R=0.0 787.00 ft <sup>2</sup> R= ft <sup>2</sup>	None	
	R= ft²	15. Credits	CF
Glass/Floor Area: 0.079	<b>Total Proposed Modifie</b>	ed Loads: 54.52	DACC
0.010	Total Baseline	Loads: 59.78	PASS
I hereby certify that the plans a	and enecifications sourced by	B :	
this calculation are in compliar	and specifications covered by	Review of the plans and specifications covered by this	OF THE STATE
Code.		calculation indicates compliance	3 2
DDEDARED DV	SA. MALIONE	with the Florida Energy Code.	2 5
PREPARED BY: JG	AR7005	Before construction is completed	GREAT CONTROL OF CONTR
V 19	dan 2017	this building will be inspected for	5
I hereby certify that this building	g, as designed, is in compliance	compliance with Section 553.908 Florida Statutes.	1. 30
with the Florida Energy Code.	g, as assigned, is in compliance		CONTRUS
			OD WE THE
DATE:		BUILDING OFFICIAL:	
		DATE:	
- Compliance requires certifi	cation by the air handler unit manu	afacturer that the air handler enclosure qu	ualifica es
Joining Idoloi 4-3caled III a	CCOLONICH WITH MAILS 2 2 7		171.
- Compliance requires an Air	Barrier and Insulation Inspection C	Checklist in accordance with R402.4.1.1 a	nd an envelope leakage
with accordance with	11.702.4.1.2.	to to	
		FILE	2
		0	01 3
		Code	
W 494800140 to the residence of the re-		Complian	nce
1/19/2017 9:47 AM	FnerryGaure® LISA - FlaPos2014	Section R405.4.1 Compliant Software	WALES

t				PROJECT							
Title: Building Type: Owner: # of Units: Builder Name: Permit Office: Jurisdiction: Family Type: New/Existing: Comment:	Mr and Mrs Hair User  1  Columbia  Single-family New (From Plans	)	Bedrooms: Conditioned Total Storie Worst Case Rotate Angl Cross Venti Whole Hous	s: 2 e: No le: 0 lation: No	08		Address Lot # Block/St PlatBool Street: County: City, Sta	ubDivision: k:	Columb Lake Ci FL,	oia	
				CLIMATE			7				
V Desi	ign Location	TMY Site	IEC0 Zone		7 Temp 2.5 %		gn Temp Summer	Heating Degree Da		esign oisture	Daily Temp Range
FL,	Gainesville F	L_GAINESVILLE	_REGI 2	32	92	70	75	1305.5		51	Medium
				BLOCKS							
Number	Name	Area	Volume								
1	Main	1321	10568								
2	2nd Floor	787	6296								
				SPACES							1, 1.
Number	Name	Area	Volume Kit	tchen Occ	upants	Bedrooms	Infil I	D Finish	ed	Cooled	Heate
	1st Floor	1321	10568	Yes	4	1	1	Yes		Yes	Yes
2	Loft	787	6296	No	2	2	1	Yes		Yes	Yes
			-	FLOORS							
	Floor Type	Space		eter Perimeter	R-Value	Area	Joist R-	Value	Tile	Wood	Carpet
1 Crav	wispace	1st F	loor 182 ft	0		1321 ft²	19		0	0	1
2 Floo	r Over Other Space	Lo	ft		-	787 ft²	0		0	0	1
				ROOF	Wall Company						
√ #	Туре	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Dec	
1	Gable or shed	Metal	2200 ft²	880 ft²	Medium	0.96	No	0.9	No	0	53.1
			Haraca Assessment Carlo	ATTIC							
	The second second				No. of Concession,	Market Committee					WWW.
V #	Туре	Ventilat	ion V	ent Ratio (1 in	1)	Area	RBS	IRCC			

	ē	·					CE	ILING							
/	#	Ceil	ing T	уре		Space	R-V	/alue	Ins	Туре	Area	Framing	Frac	Truss Typ	e
	1	Cati	hedra	al/Sing	le Assembly (Vent	ed) Loft	31	0	Ва	att	534 ft²	0.1	1	Wood	
_	2	Und	ler At	ttic (Ve	ented)	Loft	3	0	В	att	787 ft²	0.1	1	Wood	
					*		W	ALLS						Allesso Section 1994	
/ #	Ornt	Adj	acen	it Wali	Туре	Space	Cavity R-Value	Wid	lth In	Height Ft In	Area	Sheathin	g Framing		Below Grade <sup>9</sup>
1	N	Exte			me - Wood	1st Floor		55	1	8	440.7 ft		0.23	0.75	Grade:
2	E	Exte	rior	Fran	me - Wood	1st Floor	19	15	1	16	241.3 ft		0.23	0.75	0
_ 3	S	Exte	rior	Fran	me - Wood	1st Floor	19	30		8	240.0 ft	1	0.23	0.75	0
4	E	Exte	rior	Fran	me - Wood	1st Floor	19	15		8	120.0 ft	•	0.23	0.75	. 0
5	S	Exter	rior	Fran	me - Wood	1st Floor	19	25	1	16	401.3 ft	į	0.23	0.75	0
6	W	Exter	rior	Fran	me - Wood	1st Floor	19	30	1	8	240.7 ft	l <sub>e</sub>	0.23	0.75	0
7	N	Exter	rior	Fran	me - Wood	Loft	19	55	1	8	440.7 ft <sup>2</sup>		0.23	0.75	0
8	E	Exter	rior	Fran	me - Wood	Loft	19	15	1	8	120.7 ft <sup>2</sup>		0.23	0.75	0
9	S	Exter	rior	Fran	me - Wood	Loft	19	25	1	8	200.7 ft <sup>2</sup>	į.	0.23	0.75	0
N I I I I	dennie denn						DO	ORS							-
	#	C	rnt		Door Type	Space			Storms	U-Va		Width t In	Heigl Ft	nt In	Area
	1		N		Insulated	1st Floor			None	.46		6	6	8 4	10 ft²
_	2		N		Insulated	1st Floor			None	.46		6	6	8 4	10 ft²
_	3		N		Insulated	1st Floor			None	.46		3	6	8 4	IO ft²
_	4		W		Insulated	1st Floor			None	.46		3	6	8 2	20 ft²
					Orie	entation show		DOWS	Propose	d orientatio	n.				
	No Picture	W	all								Control Control	rhang			
	# (	Ornt II	F	rame	Panes	NFRC	U-Factor	SHGC		Area		Separation	Int Sh	ade S	creening
	1	N 1	١	Vinyl	Low-E Double	Yes	0.4	0.25		12.0 ft <sup>2</sup>	1 ft 0 in	1 ft 0 in	Drapes/	blinds	None
	2	E 2	١ ١	Vînyl	Low-E Double	Yes	0.4	0.25		12.0 ft <sup>2</sup>	1 ft 0 in	1 ft 0 in	Drapes/	blinds	None
_	3	S 3	١ ١	Vinyl	Low-E Double	Yes	0.4	0.25		30.0 ft <sup>2</sup>	1 ft 0 in	1 ft 0 in	Drapes/	blinds	None
_	4	E 4	١.	Vinyl	Low-E Double	Yes	0.4	0.25		15.0 ft²	1 ft 0 in	1 ft 0 in	Drapes/	blinds	None
_	5	S 5	١,	Vinyl	Low-E Double	Yes	0.4	0.25		2.0 ft <sup>2</sup>	1 ft 0 in	1 ft 0 in	Drapes/	blinds	None
_	6	W 6	١,	Vinyl	Low-E Double	Yes	0.4	0.25		20.0 ft <sup>2</sup>	1 ft 0 in	1 ft 0 in	Drapes/	blinds	None
_	7	N 7	١	Vinyl	Low-E Double	Yes	0.4	0.25		30.0 ft <sup>2</sup>	1 ft 0 in	1 ft 0 in	Drapes/	blinds	None
-	8	E 8	١	∕inyl	Low-E Double	Yes	0.4	0.25		16.0 ft <sup>2</sup>	1 ft 0 in	1 ft 0 in	Drapes/	blinds	None
	9	S 9	١.	√inyl	Low-E Double	Yes	0.4	0.25		30.0 ft <sup>2</sup>	1 ft 0 in	1 ft 0 in	Drapes/	blinde	None

					INFI	LTRATIO	ON .						<del>prinsan</del> men		
#	Scope	Method		SLA	CFM 50	ELA	Ed	ĮLΑ	A	СН	ACH	1 50			
1	Wholehouse	Best Guess		.0003	1658.8	91.07	17	1.26	.2	844	5.90	)18			
					HEAT	NG SYS	TEM								
V	#	System Type	THE STREET, MAN	Subtype		A0 22-11-02-2-1	Efficiency		Cap	acity			Block	Du	ucts
	1	Electric Heat Pu	mp	None			HSPF:8.2	!	14.36 l	Btu/hr			1	sy	s#1
	2	Electric Heat Pu	mp	None			HSPF:8.2	!	6.83 k	Btu/hr			2	sy	s#2
					COOL	ING SYS	TEM								
V	/ #	System Type		Subtype			Efficiency	Ca	pacity	Air F	low S	HR	Block	Du	ucts
	1	Central Unit		None		3	SEER: 15	13.54	kBtu/h	r 420	cfm 0.	.75	1	sy	s#1
	2	Central Unit		None			SEER: 15	6.2	kBtu/hr	180	cfm 0.	.75	2	sy	s#2
					HOT W	ATER SY	STEM			-					
V	/ #	System Type	SubType	Location	EF	Ca	ip	Use		SetPnt		Co	nservatio	1	
	1	Electric	None	1st Floor	0.92	50 (	jal	60 gal	1	120 deg			None		
		ALONDO AND		SOI	AR HOT	WATER	SYSTE	N					*		
V	FSEC Cert :		ame		System I	Model#	Co	ollecto	r Model	25/2005	ollector Area	Stor	rage ume	FEF	
	None	None									ft²				
-	arayes (file to the control of					DUCTS									
V	/ #	Supp Location R-	oly Value Area	Re Location	turn Area	Leaka	де Туре	Н	Air landler	CFM 25 TOT	CFM25 OUT	QN	RLF	HV/ Heat	AC #
	1	1st Floor	6 264.2 ft	1st Floor	66.05 ft	Default	Leakage	1st	Floor	(Default)	(Default)			1	1
	2	Loft	6 210.8 ft	Loft	52.7 ft²	Default	Leakage	L	oft	(Default)	(Default)			2	2
					TEMP	PERATU	RES						W4-11-20		
Pr	ogramable Th	nermostat: None		C	eiling Fans	:									
Cod	oling X	lan [] Feb lan [X] Feb lan [] Feb	[ ] Mar [X] Mar [X] Mar	Apr Apr X Apr	May May	X Jun Jun Jun	X Jul Jul Jul	px	Aug Aug Aug	[X] Ser Ser Ser		ct	X Nov X Nov X Nov	×	Dec Dec

### FORM R405-2014

Thermostat Schedule:	<b>HERS 200</b>	6 Referer	nce				Ho	urs					
Schedule Type		_1_	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	AM	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	68	68	68	68	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68
Heating (WEH)	AM	68	68	68	68	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68

# ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

# ESTIMATED ENERGY PERFORMANCE INDEX\* = 91

The lower the EnergyPerformance Index, the more efficient the home.

, Lake City, FL, 32055

•	<ol> <li>New construction or ex</li> </ol>	isting	New	(From Plans)	9. Wall Types	l==:.l=#:-		er -
2	<ol><li>Single family or multiple</li></ol>	e family	Sing	e-family	a Frame Mand F. L.	Insulation R=19.0	· ·	Area
	B. Number of units, if mul	0.74	1		b. N/A	R=	2440	6.00 ft <sup>2</sup>
4	<ul> <li>Number of Bedrooms</li> </ul>		3		A AVA	R= R=		ft²
	. Is this a worst case?		No		10. Ceiling Types	nsulation	n A	π² \rea
6	. Conditioned floor area	ft²)	2108	2	h Cothodoni/Cii- A	R=30.0		.00 ft²
7	. Windows**	Description		Area	c. N/A	R=30.0 R=	534	.00 ft² ft²
	a. U-Factor: SHGC:	Dbl, U=0.40 SHGC=0.25		167.00 ft²	<ol> <li>Ducts</li> <li>Sup: 1st Floor, Ret: 1st Floor, AH: 1st Floor</li> </ol>	oor	6 R	ft² 264.2
	b. U-Factor: SHGC:	N/A		ft²	b. Sup: Loft, Ret: Loft, AH: Loft		6	210.8
	c. U-Factor: SHGC:	N/A		ft²	12. Cooling systems a. Central Unit b. Central Unit	kBtu/hr 13.5	SEER:	ency 15.00
	d. U-Factor: SHGC:	N/A		ft²	12 Hosting and		SEER:	
	Area Weighted Average Area Weighted Average	Overhang Depth SHGC:	<b>n:</b>	1.000 ft. 0.250	a. Electric Heat Pump b. Electric Heat Pump	kBtu/hr 14.4 6.8	HSPF HSPF	:8.20
8.	Floor Types a. Crawlspace		Insulation	Area	14. Hot water systems	0	50	
	b. Floor Over Other Space	<b>Y</b>	R=19.0 R=0.0	1321.00 ft²	a. Electric	Cap	o: 50 ga	
	c. N/A	~	R=0.0	787.00 ft <sup>2</sup> ft <sup>2</sup>	b. Conservation features		Er:	0.92
			.,-	IL.	None			
					15. Credits			CF

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: This is not a Building Energy Rating. If your Index is below 70, your home may qualify for energy efficient mortgage (EEM) incentives if you obtain a Florida EnergyGauge Rating. Contact the EnergyGauge Hotline at (321) 638-1492 or see the EnergyGauge web site at energygauge.com for information and a list of certified Raters. For information about the Florida Building Code, Energy Conservation, contact the Florida Building Commission's support

\*\*Label required by Section R303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.

					PROJ	ECT					
Title: Building	Туре:	Mr and Mrs I User	Hair	Bedroom Bathroor	ns:	3 0		L	Address Type: Lot #	Street Addres	ss
Owner: # of Unit:		1		Total Sto		2108 sq.ft. 2		F	PlatBook:		
Builder N Permit O		Columbia		Worst Ca Rotate A		No 0			Street: County:	Columbia	
Jurisdicti		o o ramana			entilation:	No			City, State, Zip:	Lake City,	
Family T		Single-family			ouse Fan:	No				FL, 3205	5
New/Exis Year Cor		New (From F 2016	Plans)	Terrain: Shielding	10	Suburban Suburban					
Commer		2010		Omerany	<b>j</b> .	Cabarban					
					CLIM	ATE					
	Design ocation		Tmy Site		Design 97.5 %	Temp 2.5 %	Int Design Winter			Design Moisture	Daily Tem Range
FL,	Gainesv	ille FL	_GAINESVILLE_REG	IONAL_AP	32	92	70	75	1305.5	51	Medium
					UTILITY	RATES					
Fuel		Unit	Utility Name				4-5-1010	Mon	thly Fixed Cost	\$/Ui	nit
Electricit	у	kWh	Florida Average						0	0.11	
Natural (	Gas	Therm	Florida Average						0	1.80	
Fuel Oil		Gallon Gallon	Florida Default Florida Default						0	3.4 4.5	
Propane		Gallon	Tionua Belauk		SURROU	NDINGS	10.25			7.0	
					BORROO	NDING5	-				
Ornt	Туре		Shade T He	rees ight	Width	Distance	Exi	ist	Adjacent Bu Height	uildings Width	Distance
N	None		0		O ft	O ft			O ft	O ft	0 ft
NE	None		0		Oft	O ft			O ft	0 ft	O ft
E	None		0		Oft Oft	Oft Oft			Oft Oft	Oft Oft	Oft Oft
SE S	None None		0		Oft	Oft			Oft	Oft	O ft
sw	None		0		O ft	O ft			O ft	O ft	O ft
W	None		0		O ft	O ft			O ft	Oft	Oft
NW	None		0	ft	O ft	0 ft			0 ft	O ft	O ft
					BLO	CKS					
Numbe	er	Name	Area	Volum	е				*		
1		Main	1321	10568							
2		2nd Floor	787	6296		1940 p./ 2 a 2 d	A 7 1 - 1 - 1				
					SPAC	CES					
	er	Name	Area	Volume	Kitchen	Occupants	Bedro	ooms	Finished	Cooled	Heated
Numbe											
Number 1		1st Floor	1321	10568	Yes	4	1		Yes	Yes	Yes

						FLO	ORS					(Tota	al Expo	sed Are	ea = 132	21 sq.ft
#	Floor	Туре		Space	Perimete	r P	erimete	r R-Va	alue	Area	Joi	st R-Va	lue	Tile	Wood	Carpe
1	Crawlsp	ace		1st Floor	182	ft		0		1321 ft²		19		0	0	1
2	Floor Ov	er Other Space	•	Loft						787 ft²		0		0	0	1
			*		1280	RO	OF							- Charles		
#	Туре			Materials	Ro	of	Gable		Roof		Solar bsor.	SA Tested	Emi			
1	Gable or	chad		Metal										Teste	70 111170	•
-	Gable of	sned		Metal	220	ΑT	880 ft <sup>2</sup>		Mediur	n	0.96	No	0.9	No	0	53
#	Typo			Ventilation		Vant D	atia (4	(m)	۸	_	DDC		IDOO		-	
	Туре				Water Liberton	Vent R		in)	Are		RBS		IRCC			
1	Full ca	thedral ceiling		Vented		- Keisen	300		1321	ft²	N	<b>/</b> T .	N		400	
						CEIL	ING			West of the second		(Tota	II Expo	sed Are	a = 132	21 sq.ft
#	Ceiling				pace	R-Va	lue I	ns. Ty	ре	Area		ming F	raction		Truss T	уре
1		dral/Single Asse	embly ()		_oft	30		Batt		534 f		0.1			Wood	i
2	Under	Attic ()		l l	.oft	30		Batt		787 f	t <sup>2</sup>	0.1	1		Wood	1
		Wall oriental	tion below is	as entered. Act	ual orient	WAI ation is		d by r	otate a	angle sh	own in "F				a = 244	6 sq.ft
#	Ornt	Adjacent	ІІ Туре	Spa	00	Cavity -Value	Wid Ft		or it solves	eight In	Area	She	athing	Framing Fraction	Solar Absor.	Belov
1	N	Exterior Fran	me - Wood	1st I	loor	19	55	1	8		440.7 ft²			0.23	0.75	(
2	E	Exterior Fran	me - Wood	1st F	loor	19	15	1	16		241.3 ft²			0.23	0.75	
3	S	Exterior Fran	me - Wood	1st F	loor	19	30		8		240.0 ft <sup>2</sup>			0.23	0.75	= )
4	E	Exterior Fran	me - Wood	1st F	loor	19	15		8		120.0 ft <sup>2</sup>			0.23	0.75	1
5	S	Exterior Fran	me - Wood	1st F	loor	19	25	1	16		401.3 ft <sup>2</sup>			0.23	0.75	
6	W	Exterior Fran	me - Wood	1st F	loor	19	30	1	8		240.7 ft²			0.23	0.75	
7	N	Exterior Fran	me - Wood	Lo	oft	19	55	1	8		440.7 ft²			0.23	0.75	
8	E	Exterior Fran	ne - Wood	Lo	ft	19	15	1	8		120.7 ft <sup>2</sup>			0.23	0.75	(
9	S	Exterior Fran	ne - Wood	Lo	ft	19	25	1	8		200.7 ft²			0.23	0.75	
otal E	xposed Gr	ross Wall Area:	2446 sq. ft	. Total Wind	low Area:	167 s	q. ft.	То	tal Do	or Area	140 s	q. ft.	Net V	Vall Area	21:	39 sq. 1
						DOC	RS					(Tota	I Expo	sed Are	a = 140	) sq.ft.
#	Ornt	Adjacent to	Door Type	Spa	ce		Storm	s		U-Valu	e F	Width t	In	Height Ft		Area
1	N	Exterior	Insulated	1st F	loor		None			.46	6	3		6	8 4	IO ft²
2	N	Exterior	Insulated	1st F	loor		None			.46	6	<b>i</b>		6	8 4	Oft2
3	N	Exterior	Insulated	1st F	loor		None			.46	6	5		6	8 4	IO ft²
	W	Exterior	Insulated	1st F	2		None									0 ft²

							WIND	ows			(Total E	xpose	d Are	a = 167	sq.it.)
#	Ornt	Wall	Frame	Panes	NFRC	U-Factor	SHGC	Storm	Area		erhang Separation	Interior	Shad	e Scre	ening
<u> </u>	N	1	Vinyl	Low-E Double	Yes	0.4	0.25	N	12.0 ft²	1 ft 0 in	1 ft 0 in	Drapes	/blind	s N	one
2	E	2	Vinyl	Low-E Double	Yes	0.4	0.25	N	12.0 ft <sup>2</sup>	1 ft 0 in	1 ft 0 in	Drapes	/blind	s N	lone
3	s	3	Vinyl	Low-E Double	Yes	0.4	0.25	N	30.0 ft <sup>2</sup>	1 ft 0 in	1 ft 0 in	Drapes	/blind	s N	lone
1	E	4	Vinyl	Low-E Double	Yes	0.4	0.25	N	15.0 ft²	1 ft 0 in	1 ft 0 in	Drapes	/blind	s N	lone
;	s	5	Vinyl	Low-E Double	Yes	0.4	0.25	N	2.0 ft <sup>2</sup>	1 ft 0 in	1 ft 0 in	Drapes	/blind	s N	lone
3	w	6	Vinyl	Low-E Double	Yes	0.4	0.25	N	20.0 ft <sup>2</sup>	1 ft 0 in	1 ft 0 in	Drapes	/blind	s N	lone
7	N	7	Vinyl	Low-E Double	Yes	0.4	0.25	N	30.0 ft <sup>2</sup>	1 ft 0 in	1 ft 0 in	Drapes	/blind	s N	lone
3	E	8	Vinyl	Low-E Double	Yes	0.4	0.25	N	16.0 ft²	1 ft 0 in	1 ft 0 in	Drapes	s/blind	s N	lone
9	s	9	Vinyl	Low-E Double	Yes	0.4	0.25	N	30.0 ft²	1 ft 0 in	1 ft 0 in	Drapes	/blind	s N	lone
_						l	INFILTI	RATION	ı						
‡	Sco	ре		Method	SLA	CFM 50	EL	A I	EqLA	ACH /	ACH 50		Sp	ace(s)	
1	Whole	house	Bes	t Guess	.0003	1658.8	91.0	07 1	71.26	.2844	5.9018			All	
							MA	SS							
	Mas	з Тур	е		Area			kness	Fur	niture Fraction	on	Space			
	No	Adde	d Mass		O ft²		(	) ft		0.3		1st Flo			
	No	Adde	d Mass	describeration and the	O ft²		THE PERSON NAMED IN COLUMN	) ft		0.3		Loft			
esente						HE	ATING	SYSTI	EM					e a qua les Sadua	
#	Sys	tem 1	Гуре	Sub	type		Eff	ficiency	Capacity	G Entr	eothermal He y Power	atPump Volt.	Curr	Ducts	Block
1	Ele	ctric F	leat Pum	p Non	е		HS	PF:8.2	14.36 kBtu	/hr	0	0	0	sys#1	1
2	Ele	ctric F	leat Pur	p Non	е		HS	PF:8.2	6.83 kBtu/	'hr	0	0	0	sys#2	2
	- William	V	Zolovilla Na			CC	OLING	SYST	EM ————						
#	Sys	tem 1	уре	Sub	type		Eff	ficiency	Сар	acity	Air Flow	SHR		Ducts	Block
1	Cer	ntral U	Init	Non	е		SE	ER:15	13.54	kBtu/hr	420 cfm	0.75		sys#1	1
2	Cer	ntral U	Init	Non	е		AND DESCRIPTION OF THE PARTY OF	ER:15		Btu/hr	180 cfm	0.75	With the	sys#2	2
		-	W-102-1-102			HOT		R SYS							
#		tem 7	уре	SubType	Location		EF	Сар	Use	SetPnt	Fixture Flov		-	Pipe le	
1	Red	ctric circula Syste	ation m	None Recirc Control Type	1st Floor		0.92 Branch length	50 gal Pump power	60 gal DWHR	120 deg Facilities Connected	Standard Equal Flow	Nor DWI Ef	-IR	Other C	
				2.1				3611 F DECEMBER			0.00.00.000	-			

						SOLAF	N TOH	VATER						
Collector T	Гуре	C	ollector Tilt A	szimuth	Surface Area	Loss Coef.	Absorp. Prod.	Trans Corr.	Tank Volume	Tank U-Value	Tank Surf Area	Heat Exch Eff	PV Pumpe	Pump d Energy
							DUCTS							
DUCT #	Location	Supply R-Value	Area	Location	Return -		Leaka	де Туре	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF H	HVAC# leat Cool
1 2	1st Floor Loft	6	264.2 ft² 210.8 ft²	1st Floor Loft	6	66.05 ft <sup>2</sup> 52.7 ft <sup>2</sup>		Leakage Leakage	1st Floor Loft		(Default) (Default)			1 1
-	LUIL					TEM	PERATI	JRES						
Program	nable Therm	ostat: Nor	ne			Ceiling Fan	s: N							
Cooling Heating Venting	Jan X Jan Jan	X Fe		Mar (X	Apr Apr Apr	[ ] May [ ] May [ ] May	[X] Jun Jun Jun	[X] Jul [ ] Jul [ ] Jul	[X] Aug   Aug   Aug	[X] Se   Se   Se	p N	Oct Doct Doct D	Nov Nov Nov	X Dec Dec
Thermost	at Schedule:	HERS 2	2006 Refe	rence				100	lours					40
Schedule			1	2	3	4	5	6	7	8	9	10	11	12
Cooling (V	ND)	AN PM		78 78	7	8 78 8 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78
Cooling (V	NEH)	AN	78 78	78 78	7	8 78 8 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78
Heating (\	WD)	AN PN	68 68	68 68	6	8 68 8 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68
Heating (	WEH)	AN PN	68 68	68 68	6	8 68 8 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68

				AP	PLIANO	CES & L	IGHTING	1					15
Appliance Schedule: HE	RS 2006			andre we	92			Hours	72				
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
Ceiling Fans (Summer)	AM	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.33	0.33	0.33	0.33	0.33
% Released: 100	PM	0.33	0.33	0.33	0.33	0.33	1	0.9	0.9	0.9	0.9	0.9	0.65
Annual Use: 0 kWh/Yr			Peak	Value: 0	Watts								
Clothes Washer	AM	0.105	0.081	0.046	0.046	0.081	0.128	0.256	0.57	0.849	1	0.977	0.872
% Released: 60	PM	0.779	0.698	0.605	0.57	0.581	0.57	0.57	0.57	0.57	0.488	0.43	0.198
Annual Use: 0 kWh/Yr			Peak	Value: 0	Watts								
Dishwasher	AM	0.139	0.05	0.028	0.024	0.029	0.09	0.169	0.303	0.541	0.594	0.502	0.443
% Released: 60	PM	0.377	0.396	0.335	0.323	0.344	0.448	0.791	1	8.0	0.597	0.383	0.281
Annual Use: 0 kWh/Yr			Peak	Value: 0	Watts								
Dryer	AM	0.2	0.1	0.05	0.05	0.05	0.075	0.2	0.375	0.5	8.0	0.95	1
% Released: 10	PM	0.875	0.85	8.0	0.625	0.625	0.6	0.575	0.55	0.625	0.7	0.65	0.375
Annual Use: 0 kWh/Yr			Peak	Value: 0	Watts								
Lighting	AM	0.16	0.15	0.16	0.18	0.23	0.45	0.4	0.26	0.19	0.16	0.12	0.11
% Released: 90	PM	0.16	0.17	0.25	0.27	0.34	0.55	0.55	88.0	1	0.86	0.51	0.28
Annual Use: 455 kWh/	Υr		Peak	Value: 1	49 Watts								
Miscellaneous	AM	0.48	0.47	0.47	0.47	0.47	0.47	0.64	0.71	0.67	0.61	0.55	0.53
% Released: 90	PM	0.52	0.5	0.5	0.5	0.59	0.73	0.79	0.99	1	0.96	0.77	0.55
Annual Use: 0 kWh/Yr			Peak	Value: 0	Watts								
Pool Pump	AM	0	0	0	0	0	0	0	0	0	1	1	1
% Released: 0	PM	1	1	1	1	0	0	0	0	0	0	0	0
Annual Use: 0 kWh/Yr			Peak	Value: 0	Watts								
Range	AM	0.057	0.057	0.057	0.057	0.057	0.114	0.171	0.286	0.343	0.343	0.343	0.4
% Released: 100	PM	0.457	0.343	0.286	0.4	0.571	1	0.857	0.429	0.286	0.229	0.171	0.114
Annual Use: 0 kWh/Yr			Peak	Value: 0	Watts								
Refrigeration	AM	0.85	0.78	0.75	0.73	0.73	0.73	0.75	0.75	0.8	0.8	8.0	8.0
% Released: 100	PM	0.88	0.85	0.85	0.83	0.88	0.95	1	0.98	0.95	0.93	0.9	0.85
Annual Use: 775 kWh/	Yr		Peak	Value: 1	40 Watts								
Well Pump	AM	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.1	0.1	0.1
% Released: 0	PM	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Annual Use: 0 kWh/Yr			Peak	Value: 0	Watts						1250 - 100 A	- A strimon till	-
				H	ARD W	RED LI	GHTING						
ID Type	Scree	n	Locat	ion	Total# (	Qualify#	Comp FI	All Othe	r FL txtB	ulbtype	Schedule	Watts	per bulb
1 Hard-Wir	Defau	lt	Exteri	or	20 2	2	0	2	Incan	des	HERS201	60	
				MIS	C ELE	CTRICA	L LOAD	S					
ID Type	Scree	n	Iten	n	Quantity	Cata	gory	Operatir	ng Loc	ation	Schedule	Off S	tandby
1 Misc Elec	Cimpl	e Default			1			1	Main		HERS2011	1	

Appliance Schedu	A: HED	2014	NAME AND ADDRESS OF					H	lours					
Appliance Scriedu Schedule Type	ie. HER	32014	1	2	3	4	5	6	7	8	9	10	11	12
Occupancy peak:	400 Rtu	AM	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.98	0.46	0.27	0.27	0.27
% Released:	100 %	PM	0.27	0.27	0.27	0.27	0.33	0.61	1	1	0.93	0.93	0.93	0.93
refrig peak:	0 W	AM	0.824	0.804	0.784	0.764	0.744	0.734	0.744	0.754	0.764	0.794	0.814	0.854
% Released:	100 %	PM	0.854	0.864	0.884	0.904	0.925	0.945	0.925	0.915	0.904	0.894	0.874	0.854
cWash peak:	o W	AM	0.2	0.1	0.05	0.05	0.05	0.075	0.2	0.375	0.5	0.8	0.95	1
% Released:	30 %	PM	0.875	0.85	0.8	0.625	0.625	0.6	0.575	0.55	0.625	0.7	0.65	0.375
E-cDry peak:	0 W	AM	0.2	0.1	0.05	0.05	0.05	0.075	0.2	0.375	0.5	8.0	0.95	1
% Released:	15 %	PM	0.875	0.85	8.0	0.625	0.625	0.6	0.575	0.55	0.625	0.7	0.65	0.375
dWash peak:	o w	AM	0.139	0.05	0.028	0.024	0.029	0.09	0.169	0.303	0.541	0.594	0.502	0.443
% Released:	60 %	PM	0.376	0.396	0.334	0.323	0.344	0.448	0.791	1	0.8	0.597	0.383	0.281
E-rOven peak:	0 W	AM	0.057	0.057	0.057	0.057	0.057	0.114	0.171	0.286	0.343	0.343	0.343	0.4
% Released:	80 %	PM	0.457	0.343	0.286	0.4	0.571	1	0.857	0.429	0.286	0.229	0.171	0.114
TVs peak:	226 W	AM	0.1	0.05	0.05	0.05	0.1	0.2	0.4	0.45	0.4	0.2	0.1	0.1
% Released:	100 %	PM	0.05	0.05	0.15	0.45	0.85	1	0.95	0.8	0.5	0.25	0.15	0.1
cFan peak:	0 W	AM	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.25	0.25	0.25	0.25	0.25
% Released:	100 %	PM	0.25	0.25	0.25	0.25	0.25	0.25	0.55	0.6	0.6	0.6	0.6	0.6
lgts-in peak:	0 W	AM	0.16	0.15	0.16	0.18	0.23	0.45	0.42	0.26	0.19	0.16	0.12	0.11
% Released:	100 %	PM	0.16	0.17	0.25	0.27	0.34	0.55	0.6	0.88	1	0.88	0.51	0.28
lgts-out peak:	55 W	AM	1	1	1	1	1	0.75	0.75	0	0	0	0	0
% Released:	0 %	PM	ò	o	0	0	0	0	0	0.5	0.75	0.75	0.75	1
lgts-gar peak:	0 W	AM	0	0	0	0	0	0.5	0.75	1	0.75	0.5	0	0
% Released:	0 %	PM	o	0	0.5	0.5	0.75	1	0.75	0.5	0	0	0	0
MEL peak:	0 W	AM	0.5	0.5	0.5	0.75	0.75	0.85	1	1	1	1	0.9	0.9
% Released:	90 %	PM	0.9	0.9	1	1	1	1	1	1	1	0.85	0.75	0.75

# **Manual J Summer Calculations**

Residential Load - Component Details (continued)

Project Title: Mr and Mrs Hair Climate:FL\_GAINESVILLE\_REGIONAL\_A

Lake City, FL 32055

1/19/2017

WHOLE HOUSE TOTALS			
	Sensible Envelope Load All Zones	14242	Btuh
	Sensible Duct Load	0	Btuh
	Total Sensible Zone Loads	14242	Btuh
	Sensible ventilation	0	Btuh
	Blower	0	Btuh
Whole House	Total sensible gain	14242	Btuh
Totals for Cooling	Latent infiltration gain (for 47 gr. humidity difference)	3050	Btuh
	Latent ventilation gain	0	Btuh
	Latent duct gain	0	Btuh
	Latent occupant gain (6.0 people @ 200 Btuh per person)	1200	Btuh
	Latent other gain	0	Btuh
	Latent total gain	4250	Btuh
	TOTAL GAIN	18492	Btuh

1. Central Unit	#	13541 Btuh
2. Central Unit	#	6198 Btuh

\*Key: Window types (Panes - Number and type of panes of glass)

(SHGC - Shading coefficient of glass as SHGC numerical value) (U - Window U-Factor)

(InSh - Interior shading device: none(No), Blinds(B), Draperies(D) or Roller Shades(R))

- For Blinds: Assume medium color, half closed

For Draperies: Assume medium weave, half closed

For Roller shades: Assume translucent, half closed

(IS - Insect screen: none(N), Full(F) or Half(%))

(Ornt - compass orientation)



Version 8

# System Sizing Calculations - Summer

# Residential Load - Whole House Component Details

Mr and Mrs Hair

Lake City, FL 32055

1/19/2017

Reference City: Gainesville Reg, FL

Temperature Difference: 17.0F(MJ8 99%)

Humidity difference: 47gr.

## **Component Loads for Whole House**

		Туре	*	-		Overl	nang	Wind	ow Area	a(sqft)	Н	ITM	Load	
Window	Panes	SHGC U		IS	Ornt	Len	Hgt	241752112411322			Shaded	Unshaded		
1		0.25, 0.40	B-L	No	N	1.0ft	1.0ft	12.0	0.0	12.0	9	9	111	Btuh
2		0.25, 0.40	B-L	No	E	1.0ft	1.0ft	12.0	0.0	12.0	9	23	270	Btuh
3		0.25, 0.40	B-L	No	S	1.0ft	1.0ft	30.0	26.4	3.6	9	11	284	Btuh
4		0.25, 0.40	B-L	No	E	1.0ft	1.0ft	15.0	0.0	15.0	9	23	338	Btuh
5		0.25, 0.40	100000	No	S	1.Oft	1.0ft	2.0	2.0	0.0	9	11	19	Btuh
5 6		0.25, 0.40	No	No	W	1.0ft	1.0ft	20.0	0.0	20.0	12	31	618	Btuh
7		0.25, 0.40	B-L	No	N	1.0ft	1.0ft	30.0	0.0	30.0	9	9	278	Btuh
8		0.25, 0.40	B-L	No	E	1.0ft	1.0ft	16.0	0.0	16.0	9	23	360	Btuh
9	2 NFRC	0.25, 0.40	B-L	No	S	1.0ft	1.0ft	30.0	26.4	3.6	9	11	284	Btuh
	Windo					167 (so							2562	Btul
Walls	Туре				U	-Value	R-\	/alue	Area	(sqft)		HTM	Load	
							Cav/S	heath				1		
1		Wood - Ext				80.0		0.0\0		8.7		1.5	463	Btuh
2	Frame -	Wood - Ext				80.0		0.0\0	229.3			1.5	344	Btuh
3	Frame -	Wood - Ext				80.0		0.0\0	210.0			1.5	315	Btuh
4	Frame -	Wood - Ext				80.0		0.0\0		5.0		1.5	157	Btuh
5	Frame -	Wood - Ext				80.0		0.0\0	0.000	9.3		1.5	599	Btuh
5 6	Frame -	Wood - Ext				80.0		0.0\0		0.7		1.5	301	Btuh
7		Wood - Ext				80.0		0.0\0		0.7		1.5	616	
8		Wood - Ext						0.0\0		4.7		1.5	157	
9	Frame - Wood - Ext			0.08 19.0/0.0 170.7					1.5	256				
	Wall T	otal								39 (sqft)	1		3207	Btul
Doors	Type									(sqft)		HTM	Load	
1	Insulated	d - Exterior								0.0		12.9	515	
2	Insulate	d - Exterior								0.0		12.9	515	
3	Insulate	d - Exterior								0.0		12.9	515	
4	Insulate	d - Exterior								0.0		12.9		Btuh
	Door T	otal								40 (sqft)			1803	Btul
Ceilings	Type/C	Color/Surf	ace		U	-Value	)	R-Value	e Area	(sqft)		HTM	Load	
1	Cath/Sn	gl Assem/Li	ight/Me	etal		0.032		30.0/0.0		34.0		0.72		Btul
2	Vented /	Attic/Light/N	letal			0.032		30.0/0.0	78	37.0		1.34	0.777.7	Btul
	Ceiling	Comment of the second of the second							132	21 (sqft)			1436	Btul
Floors	Type			otowe h			R-\	/alue	Si	ize		HTM	Load	
1		awlsp(Carp	et)(v)					19.0	13	321 (sqft)		0.7	869	Btul
2	Interior	P(-w/P	- 7(.)					0.0		87 (sqft)		0.0	0	Btul
_	Floor 7	Total								.0 (sqft)			869	Btul
										invelope	Subtota	ıl:	9877	' Btul

# **Manual J Summer Calculations**

Residential Load - Component Details (continued)

Project Title: Climate:FL\_GAINESVILLE\_REGIONAL\_A
Mr and Mrs Hair

Lake City, FL 32055

1/19/2017

Infiltration	Type Natural	Average ACH 0.34		e(cuft) \ 6864	Wall Ratio	CFM= 95.9	Load 1785	Btuh
Internal gain	Tutturui	Occupants 6	Bto X	uh/occu 230	upant +	Appliance 1200	Load 2580	Btuh
				Sen	sible Envel	ope Load:	14242	Btuh
Duct load	Average sealed, Supply	(R6.0-Condi), Return(R6.0-Co	ondi)		(DGM of	0.000)	0	Btuh
		Sensible Load All Zones						Btuh

# **System Sizing Calculations - Winter**

# Residential Load - Whole House Component Details

Project Title: Mr and Mrs Hair Building Type: User

Lake City, FL 32055

1/19/2017

Reference City: Gainesville Reg, FL (Defaults) Winter Temperature Difference: 37.0 F (MJ8 99%)

	TES
omponent Loads for Whole House	
Milpotlent Loads for American	

Window	Panes/Type	Frame	e U	Orientation	Area(sqft) X	HTM=	Load
	2, NFRC 0.25	Vinyl	0.40	N	12.0	14.8	178 Btuh
1 2	2, NFRC 0.25	Vinyl	0.40	E	12.0	14.8	178 Btuh
3	2, NFRC 0.25	Vinyl	0.40	S	30.0	14.8	444 Btuh
4	2, NFRC 0.25	Vinyl	0.40	E	15.0	14.8	222 Btuh
5	2, NFRC 0.25	Vinyl	0.40	s	2.0	14.8	30 Btuh
6	2, NFRC 0.25	Vinyl	0.40	W	20.0	14.8	296 Btuh
7	2, NFRC 0.25	Vinyl	0.40	N	30.0	14.8	444 Btuh
8	2, NFRC 0.25	Vinyl	0.40	Ē	16.0	14.8	237 Btuh
9	2, NFRC 0.25	Vinyl		s	30.0	14.8	444 Btuh
9	Window Total	Villy	0.10	7	167.0(sqft)		2472 Btuh
Walls		Ornt.	Leff	R-Value	Area X	HTM=	Load
vvaiis	Туре	Offic.	oon.	(Cav/Sh)	A. W. S.		
	Frame - Wood	- Ext	(0.077)	19.0/0.0	309	2.86	883 Btuh
1	Frame - Wood		(0.077)	19.0/0.0		2.86	656 Btuh
2	Frame - Wood		(0.077)	19.0/0.0		2.86	600 Btuh
3 4	Frame - Wood		(0.077)	19.0/0.0		2.86	300 Btuh
4	Frame - Wood		(0.077)	19.0/0.0		2.86	1142 Btuh
5 6	Frame - Wood		(0.077)	19.0/0.0		2.86	574 Btuh
9	Frame - Wood		(0.077)	19.0/0.0		2.86	1174 Btuh
7 8	Frame - Wood	- Ext		19.0/0.0		2.86	299 Btuh
9	Frame - Wood		(0.077)	19.0/0.0		2.86	488 Btuh
9	Wall Total	- LXI	(0.011)	10.0/0.0	2139(sqft)		6116 Btuh
Doors	Type	Storn	n Ueff.		Area X	HTM=	Load
	Insulated - Exte		(0.460)		40	17.0	681 Btuh
1	Insulated - Exte	and Section 1971	(0.460)		40	17.0	681 Btuh
2 3	Insulated - Exte	and the second	(0.460)		40	17.0	681 Btuh
4	Insulated - Exte		(0.460)		20	17.0	340 Btuh
4	Door Total	1101, 11	(0.400)		140(sqft)	3.3.35	2383Btuh
Ceilings	Type/Color/Surf	ace	Ueff.	R-Value	Area X	HTM=	Load
	Cathedral/L/Met		).032)	30.0/0.0	534	1.2	639 Btuh
1 2	Vented Attic/L/N	- / ·	).032)	30.0/0.0	787	1.2	927 Btuh
2	Ceiling Total	notal (e	,		1321(sqft)		1567Btuh
Floors	Type		Ueff.	R-Value	Size X	HTM=	Load
	Stem/Crawlsp(0	Carnet)(v			1321.0 sqft	1.4	1881 Btuh
1 2	Interior	Juipot/(v	(0.049		787.0 sqft	0.0	0 Btuh
2	Floor Total		(0.040	, 3.0	2108 sqft		1881 Btuh
	1 1001 Total				Envelope Subt	total:	14418 Btuh
Infiltration	Type Natural	Who	lehouse	ACH Volum 0.46 168	(67))		5179 Btul

# **Manual J Winter Calculations**

# Residential Load - Component Details (continued) Project Title:

Lake City, FL 32055

Mr and Mrs Hair Building Type: User

1/19/2017

Duct load	(DLM of 0.000)	0 Btuh
All Zones	Sensible Subtotal All Zones	19597 Btuh
WHOLE HOUSE TOTALS		

Ventilation Sensible Heat Loss Total Heat Loss	0 Btuh 19597 Btuh
	Ventilation Sensible Heat Loss

### **EQUIPMENT**

1. Electric Heat Pump	#	14360 Btuh
2. Electric Heat Pump	#	6826 Btuh

Key: Window types - NFRC (Requires U-Factor and Shading coefficient(SHGC) of glass as numerical values) or - Glass as 'Clear' or 'Tint' (Uses U-Factor and SHGC defaults)

U - (Window U-Factor) HTM - (ManualJ Heat Transfer Multiplier)



Version 8

# Residential System Sizing Calculation

# Summary Project Title:

Mr and Mrs Hair

Lake City, FL 32055

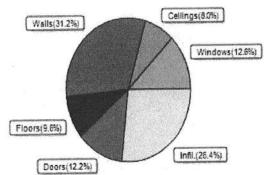
1/19/2017

Location for weather data: Gaines	sville Reg, l	FL - Defaul	ts: Latitude(30) Altitude(164 ft.) Temp	Range(	M)
Humidity data: Interior RH (50%	) Outdoor	wet bulb (7	6F) Humidity difference(4/gl.)		
Winter design temperature(MJ8 9	9%) 33		Summer design temperature(MJ8 99%	75	
Winter setpoint	70		Summer setpoint	17	500
Winter temperature difference	37		Summer temperature difference		
Total heating load calculation	19597	Btuh	Total cooling load calculation	18492	
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity %	of calc	
Total (Electric Heat Pump)		21187	Sensible (SHR = 0.75)	103.9	14804
		21187	Latent	116.1	4935
Heat Pump + Auxiliary(0.0kW)	100.1	21107	Total (Electric Heat Pump)	106.7	19739

# WINTER CALCULATIONS

Winter Heating Load (for 2108 sqft)

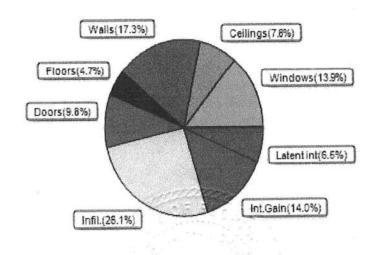
Load component			Load	
Window total	167	sqft	2472	Btuh
Wall total	2139	sqft	6116	Btuh
Door total	140	sqft	2383	Btuh
Ceiling total	1321	sqft	1567	Btuh
Floor total	See detail rep	oort	1881	Btuh
Infiltration	128	cfm	5179	Btuh
Duct loss			0	Btuh
Subtotal			19597	Btuh
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LO	SS		19597	Btuh



# **SUMMER CALCULATIONS**

Summer Cooling Load (for 2108 sqft)

Load component		-	Load	
Window total	167	sqft	2562	Btuh
Wall total	2139	sqft	3207	Btuh
Door total	140	sqft	1803	Btuh
Ceiling total	1321	sqft	1436	Btuh
Floor total			869	Btuh
Infiltration	96	cfm	1785	Btuh
Internal gain		- 1	2580	Btuh
Duct gain			0	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Blower Load		1	0	Btuh
Total sensible gain			14242	Btuh
Latent gain(ducts)			0	Btuh
Latent gain(infiltration)			3050	Btuh
Latent gain(ventilation)		1	0	Btuh
Latent gain(internal/occu	pants/othe	er)	1200	Btuh
Total latent gain	60		4250	Btuh
TOTAL HEAT GAIN			18492	Btuh





EnergyGauge® System dizir AR 7005 PREPARED BY: DATE:

### FORM R405-2014

# MANDATORY REQUIREMENTS - (Continued)

R403.6.1.1 Cooling equipment capacity. (continued) The published value for AHRI total capacity is a nominal, rating-test value and shall not be used for equipment sizing. Manufacture's expanded performance data shall be used to select cooling-only equipment. This selection shall be used to select cooling-only equipment. This selection shall be based on the outdoor design dry bulb temperature for the load calculation (or entering water temperature for water-source equipment), the blower cfm provided by the expanded performance data, the design value for entering wet bulb temperature and the design value for entering dry bulb temperature.

Design values for entering wet bulb and dry bulb temperature shall be for the indoor dry bulb and relative humidity used for the load calculation and shall be adjusted for return side gains if the return duct(s) is installed in an unconditioned space.

#### Exceptions:

- Attached single- and multi-family residential equipment sizing may be selected so that its cooling capacity is less than the calculated total sensible load but not less than 80 percent of that load.
- When signed and sealed by a Florida-registered engineer, in attached single- and multi-family units, the capacity of equipment may be sized in accordance with good design practice.

#### O R403.6.1.2 Heating equipment capacity

- R403.6.1.2.1 Heat pumps. Heat pumps sizing shall be based on the cooling requirements as calculated according to Section R403.6.1.1 and the heat pump total cooling capacity shall not be more than 1.15 times greater than the design cooling load.
- R403.6.1.2.2 Electric resistance furnaces. Electric resistance furnaces shall be sized within 4 kW of the design requirements calculated according to the procedure selected in Section R403.6.1.
- R403.6.1.2.3 Fossil fuel heating equipment. The capacity of fossil fuel heating equipment with natural draft atmospheric burners shall not be less than the design load calculated in accordance with Section R403.6.1.
- O R403.6.1.3 Extra capacity required for special occasions. Residences requiring excess cooling or heating equipment capacity on an intermittent basis, such as anticipated additional loads caused by major entertainment events, shall have equipment sized or controlled to prevent continuous space cooling or heating within that space by one or more of the following options:
  - A separate cooling or heating system is utilized to provide cooling or heating to the major entertainment areas.
  - A variable capacity system sized for optimum performance during base load periods is utilized.
- R403.7 Systems serving multiple dwelling units (Mandatory). Systems serving multiple dwelling units shall comply with Sections C403 and C404 of the Commercial Provisions in lieu of Section R403.
- R403.8 Snow melt system controls (Mandatory). Snow and ice-melting systems, supplied through energy service to the building, shall include automatic controls capable of shutting off the system when the pavement temperature is above 55°F, and no precipitation is falling and an automatic or manual control that will allow shutoff when the outdoor temperature is above 40°F.
  - R403.9 Swimming pools, inground spas and portable spas (Mandatory). The energy requirements for residential pools and inground spas shall be as specified in Sections R403.9.1 through R403.9.3 and in accordance with ANSI/APSP-15. The energy requirements for portable spas shall be in accordance with ANSI/APSP-14.
    - R403.9.1 Pool and spa heaters. All pool heaters shall be equipped with a readily accessible on-off switch that is mounted outside the heater to allow shutting off the heater without adjusting the thermostat setting.
      - R403.9.1.1 Gas and oil-fired pool and spa heaters. All gas- and oil-fired pool and space heaters shall have a minimum thermal efficiency of 82 percent for heaters manufactured on or after April 16, 2013 when tested in accordance with ANSI Z 21.56. Pool heaters fired by natural gas or LP gas shall not have continuously burning pilot lights.
      - R403.9.1.2 Heat pump pool heaters. Heat pump pool heaters shall have a minimum COP of 4.0 when tested in accordance with AHRI 1160, Table 2, Standard Rating Conditions-Low Air Temperature. A test report from an independent laboratory is required to verify procedure compliance. Geothermal swimming pool heat pumps are not required to meet this standard.
    - O R403.9.2 Time switches. Time switches or other control method that can automatically turn off and on heaters and pumps according to a preset schedule shall be installed on all heaters and pumps. Heaters, pumps and motors that have built in timers shall be deemed in compliance with this equipment.

#### **Exceptions:**

- Where public health standards require 24-hour pump operations.
  - Where pumps are required to operate solar- and waste-heat-recovery pool heating systems.
  - 3. Where pumps are powered exclusively from on-site renewable generation.
- O R403.9.3 Covers. Heated swimming pools and inground permanently installed spas shall be equipped with a vapor-retardant cover on or at the water surface or a liquid cover or other means proven to reduce heat loss.
  - Exception: Outdoor pools deriving over 70 percent of the energy for heating from site-recovered energy, such as a heat pump or solar energy source computed over an operating season.
- RR404.1 Lighting equipment (Mandatory). A minimum of 75 percent of the lamps in permanently installed lighting fixtures shall be high-efficacy lamps or a minimum of 75 percent of permanently installed lighting fixtures shall contain only high efficacy lamps.

Exception: Low-voltage lighting shall not be required to utilize high-efficacy lamps.

- O R404.1.1 Lighting equipment (Mandatory). Fuel gas lighting systems shall not have continuously burning pilot lights
- R405.2 Performance ONLY. All ducts not entirely inside the building thermal envelope shall be insulated to a minimum of R-6.

  O R405.2.1 Performance ONLY. Ceilings shall have minimum insulation of R-19. Where single assembly of the exposed deck and beam type or concrete deck roofs do not have sufficent space, R-10 is allowed.

# **MANDATORY REQUIREMENTS - (Continued)**

R403.2.3 Building Cavities (Mandatory). Building framing cavities shall not be used as ducts or plenums.	
R403.3 Mechanical system piping insulation (Mandatory). Mechanical system piping capable of carrying fluids above 105°F (41°C) or below 55°F (13°C) shall be insulated to a minimum of R-3.,	
R403.3.1 Protection of piping insulation.	
R403.4.1 Circulating hot water systems (Mandatory). Circulating hot water systems shall be provided with an automatic or readily accessible manual switch that can turn off the hot-water circulating pump when the system is not in use.	
R403.4.3 Heat traps (Mandatory). Storage water heaters not equipped with integral heat traps and having vertical pipe risers shall have heat traps installed on both the inlets and outlets. External heat traps shall consist of either a commercially available heat trap or a downward and upward bend of at least 3 ½ inches (89 mm) in the hot water distribution line and cold water line located as close as possible to the storage tank.	
R403.4.4 Water heater efficiencies (Mandatory).  O R403.4.4.1 Storage water heater temperature controls	
<ul> <li>R403.4.4.1.1 Automatic controls. Service water heating systems shall be equipped with automatic temperature controls capable of adjustment from the lowest to the highest acceptable temperature settings for the intended use. The minimum temperature setting range shall be from 100°F to 140°F (38°C to 60°C).</li> </ul>	
<ul> <li>R403.4.4.1.2 Shut down. A separate switch or a clearly marked circuit breaker shall be provided to permit the power supplet to electric service systems to be turned off. A separate valve shall be provided to permit the energy supplied to the main bur of combustion types of service water heating systems to be turned off.</li> </ul>	ied ier(s)
O R403.4.4.2 Water heating equipment. Water heating equipment installed in residential units shall meet the minimum efficience. Table C404.2 in Chapter 4 of the Florida Building Code, Energy Conservation, Commercial Provisions, for the type of equipment in Equipment used to provide heating functions as part of a combination system shall satisfy all stated requirements for the appropriate heating category. Solar water heaters shall met the criteria Section R403.4.4.2.1.	stalle
R403.4.4.2.1 Solar water heating systems. Solar systems for domestic hot water production are rated by the annual solar factor of the system. The solar energy factor of a system shall be determined from the Florida Solar Energy Center Directory Certified Solar Systems. Solar collectors shall be tested in accordance with ISO Standard 9806, Test Methods for Solar Coll and SRCC Standard TM-1, Solar Domestic Hot Water System and Component Test Protocol, Collectors in installed solar water the following criteria:	of ectors
<ol> <li>Be installed with a tilt angle between 10 degrees and 40 degrees of the horizontal; and</li> <li>Be installed at an orientation within 45 degrees of true south.</li> </ol>	
R403.5 Mechanical ventilation (Mandatory). The building shall be provided with ventilation that meets the requirements of the Florida Building Code, Residential or Florida Building Code, Mechanical, as applicable, or with other approved means of ventilation. Outdoor air intakes and exhausts shall have automatic or gravity dampers that close when the ventilation system is not operating.	
R403.6 Heating and cooling equipment (Mandatory). The following sections are mandatory for cooling and heating equipment.	
R403.6.1 Equipment sizing. Heating and cooling equipment shall be sized in accordance with ACCA Manual S based on the equipment loads calculated in accordance with ACCA Manual J or other approved heating and cooling calculation methodologies, based on building loads for the directional orientation of the building. The manufacturer and model number of the outdoor and indoor units (if split system) shall be submitted along with the sensible and total cooling capacities at the design conditions described in Section R302.1. This code does not allow designer safety factors, provisions for future expansion or other factors which affect equipment sizing. System sizing calculations shall not include loads created by local intermittent mechanical ventilations such as standard kitchen and bathroom exhaust systems.	n -
<ul> <li>R403.6.1.1 Cooling equipment capacity. Cooling only equipment shall be selected so that its total capacity is not less to calculated total load, but not more than 1.15 times greater than the total load calculated according to the procedure selected Section 403.6, or the closest available size provided by the manufacturer's product lines. The corresponding latent capacity equipment shall not be less than the calculated latent load.</li> </ul>	in

FORM R405-2014

# Florida Department of Business and Professional Regulations Residential Whole Building Performance and Prescriptive Methods

THE RESERVE AND ADDRESS OF THE PARTY.			
ADDRESS:		Permit Number:	
	Lake City, FL, 32055		

MANDATORY REQUIREMENTS See individu	al code sections for full details.
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- 401.3 Energy Performance Level (EPL) display card (Mandatory). The building official shall require that an energy performance level (EPL) display card be completed and certified by the builder to be accurate and correct before final approval of the building for occupancy. Florida law [Section 553.9085, Florida Statues] requires the EPL display card to be included as an addendum to each sales contract for both presold and nonpresold residential buildings. The EPL display card contains information indicating the energy performance level and efficiencies of components installed in a dwelling unit. The building official shall verify that the EPL display card completed and signed by the builder accurately reflects the plans and specifications submitted to demonstrate compliance for the building. A copy of the EPL display card can be found in Appendix C.
- R402.4 Air leakage (Mandatory). The building thermal envelope shall be constructed to limit air leakage in accordance with the requirements of Sections R402.1 through R402.4.4.
  - R402.4.1 Building thermal envelope. The building thermal envelope shall comply with Sections R402.4.1.1 and R402.4.1.2. The sealing methods between dissimilar materials shall allow for differential expansion and contraction.
    - R402.4.1.1 Installation. The components of the building thermal envelope as listed in Table R402.4.1.1 shall be installed in accordance with the manufacturer's instructions and the criteria listed in Table 402.4.1.1, as applicable to the method of construction. Where required by the code official, an approved third party shall inspect all components and verify compliance.
    - R402.4.1.2 Testing. The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding 5 air changes per hour in Climate Zones 1 and 2, and 3 air changes per hour in Climate Zones 3 through 8. Testing shall be conducted with a blower door at a pressure of 0.2 inches w.g. (50 Pascals). Where required by the code official, testing shall be conducted by an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the code official. Testing shall be performed at any time after creation of all penetrations of the building thermal envelope.

**During testing:** 

- 1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures;
- 2. Dampers including exhaust, intake, makeup air, backdraft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures;
- 3. Interior doors, if installed at the time of the test, shall be open;
- 4. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed;
- 5. Heating and cooling systems, if installed at the time of the test, shall be turned off; and
- 6. Supply and return registers, if installed at the time of the test, shall be fully open.
- O R402.4.2 Fireplaces. New wood-burning fireplaces shall have tight-fitting flue dampers and outdoor combustion air.
- O R402.4.3 Fenestration air leakage. Windows, skylights and sliding glass doors shall have an air infiltration rate of no more than 0.3 cfm per square foot (1.5 L/s/m2), and swinging doors no more than 0.5 cfm per square foot (2.6 L/s/m2), when tested according to NFRC 400 or AAMA/WDMA/CSA 101/I.S.2/A440 by an accredited, independent laboratory and listed and labeled by the manufacturer.

Exception: Site-built windows, skylights and doors.

- O R402.4.4 Recessed lighting. Recessed luminaires installed in the building thermal envelope shall be sealed to limit air leakage between conditioned and unconditioned spaces. All recessed luminaires shall be IC-rated and labeled as having an air leakage rate not more than 2.0 cfm (0.944 L/s) when tested in accordance with ASTM E 283 at a 1.57 psf (75 Pa) pressure differential. All recessed luminaires shall be sealed with a gasket or caulk between the housing and the interior wall or ceiling covering.
- R403.1.1 Thermostat provision (Mandatory). At least one thermostat shall be provided for each separate heating and cooling system.
  - R403.1.3 Heat pump supplementary heat (Mandatory). Heat pumps having supplementary electric-resistance heat shall have controls that, except during defrost, prevent supplemental heat operation when the heat pump compressor can meet the heating load.
  - R403.2.2 Sealing (Mandatory)All ducts, air handlers, and filter boxes and building cavities that form the primary air containment passageways for air distribution systems shall be considered ducts and plenum chambers, shall be constructed and sealed in accordance with Section C403.2.7.2 of the Commercial Provisions of this code and shall be shown to meet duct tightness criteria by post-construction or rough-in testing below.

Duct tightness shall be verified by testing to Section 803 of the RESNET Standards by either an energy rater certified in accordance with Section 553.99. Florida Statutes, or as authorized by Florida Statutes, to be "substantially leak free" by either of the following:

- Post-construction test: Total leakage shall be less than or equal to 4 cfm (113 L/min) per 100 square feet (9.29 m2) of conditioned floor area
  when tested at a pressure differential of 0.1 inches w.g. (25 Pa) across the entire system, including the manufacturer's air handler enclosure. All
  register boots shall be taped or otherwise sealed during the test.
- 2. Rough-in test: Total leakage shall be less than or equal to 4 cfm (113 L/min) per 100 square feet (9.29 m2) of conditioned floor area when tested at a pressure differential of 0.1 inches w.g. (25Pa) across the system, including the manufacturer's air handler enclosure. All registers shall be taped or otherwise sealed during the test. If the air handler is not installed at the time of the test, total leakage shall be less than or equal to 3 cfm (85 L/min) per 100 square feet (9.29 m2) of conditioned floor area.

#### Exceptions:

- 1. The total leakage test is not required for ducts and air handlers located entirely within the building envelope.
- 2. Duct testing is not mandatory for buildings complying by Section R405 of this code.

# RESIDENTIAL ENERGY CONSERVATION CODE DOCUMENTATION CHECKLIST

# Florida Department of Business and Professional Regulation Simulated Performance Alternative (Performance) Method

Applications for compliance with the 2014 Florida Building Code, Energy Conservation via the residential Simulated Performance method shall include

	This checklist
	A Form R405 report that documents that the Proposed Design complies with Section R405.3 of the Florida Energy Code. This form shall include a summary page indicating home address, e-ratio and the pass or fail status along with summary areas and types of components, whether the home was simulated as a worst-case orientation, name and version of the compliance software tool, name of individual completing the compliance report (1 page) and an input summary checklist that can be used for field verification (usually 4 pages/may be greater).
	Energy Performance Level (EPL) Display Card (one page)
	Mandatory Requirements(three pages)
Red	quired prior to CO for the Performance Method:
	Air Barrier and Insulation Inspection Component Criteria checklist (Table R402.4.1.1 - one page)
	A completed Envelope Leakage Test Report(usually one page)
	If Form R405 duct leakage type indicates anything other than "default leakage", then a completed Form R405 Duct Leakage Test Report (usually one page)

### **TABLE 402.4.1.1**

# AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

Project Name: Street:

Mr and Mrs Hair

Permit Office: Columbia

City, State, Zip: Owner:

Lake City, FL, 32055

Permit Number: Jurisdiction:

**Builder Name:** 

Design Location:

FL, Gainesville

COMPONENT	CRITERIA	CHECK
Air barrier and thermal barrier	A continuous air barrier shall be installed in the building envelope.  Exterior thermal envelope contains a continuous barrier.  Breaks or joints in the air barrier shall be sealed.  Air-permeable insulation shall not be used as a sealing material.	
Ceiling/attic	The air barrier in any dropped ceiling/soffit shall be aligned with the insulation and any gaps in the air barrier shall be sealed.  Access openings, drop down stairs or knee wall doors to unconditioned attic spaces shall be sealed.	
Walls	Corners and headers shall be insulated and the junction of the foundation and sill plate shall be sealed.  The junction of the top plate and the top or exterior walls shall be sealed. Exterior thermal envelope insulation for framed walls shall be installed in substantial contact and continuous alignment with the air barrier. Knee walls shall be sealed.	
Windows, skylights and doors	The space between window/door jambs and framing and skylights and framing shall be sealed.	
Rim joists	Rim joists are insulated and include an air barrier.	
Floors (including above-garage and cantilevered floors)  Insulation shall be installed to maintain permanent contact with undersi of subfloor decking.  The air barrier shall be installed at any exposed edge of insulation.		
Crawl space walls  Where provided in lieu of floor insulation, insulation shall be permane attached to the crawlspace walls.  Exposed earth in unvented crawl spaces shall be covered with a Class vapor retarder with overlapping joints taped.		
Shafts, penetrations	Duct shafts, utility penetrations, and flue shaft openings to exterior or unconditioned space shall be sealed.	
Narrow cavities	Batts in narrow cavities shall be cut to fit, or narrow cavities shall be filled by insulation that on installation readily conforms to the available cavity spaces.	
Garage separation	Air sealing shall be provided between the garage and conditioned spaces.	
Recessed lighting	Recessed light fixtures installed in the building thermal envelope shall be air tight, IC rated, and sealed to the drywall.	
Plumbing and wiring  Batt insulation shall be cut neatly to fit around wiring and plumbing in exterior walls, or insulation that on installation readily conforms to available space shall extend behind piping and wiring.		
Shower/tub on exterior wall  Exterior walls adjacent to showers and tubs shall be insulated and the air barrier installed separating them from the showers and tubs.		
Electrical/phone box on  The air barrier shall be installed behind electrical or communication boxes or air sealed boxes shall be installed.		
HVAC register boots	HVAC register boots that penetrate building thermal envelope shall be sealed to the sub-floor or drywall.	
Fireplace An air barrier shall be installed on fireplace walls. Fireplaces shall have gasketed doors		

# FLORIDA PRODUCT APPROVALS 10-16-15

Item:	Manufacturer	Product Description:	Approval Number:
Exterior Doors:	Masonite	Inswing & Outswing Fiberglass	FL-8228-R7
	Masonite	Inswing & Outswing Steel	FL-4904-R7
	Plastpro	8'0" Inswing & Outswing Fiberglass	FL-15220-R1
	Plastpro	Inswing & Outswing Steel	FL-15962-R2
	Plastpro	6'8" Inswing & Outswing Fiberglass	FL-15215-R3
Windows:	MI	Aluiminum 185 Single Hung	FL-17499
		Aluiminum 185 Picture Window	FL-15349
		Vinyl 3540 Single Hung	FL-17676-R1
		Vinyl 3500 Picture Window	FL-18644
	Magnolia	Vinyl 400 Single Hung	FL-16475-R3
	ı.	Vinyl 400 Picture Window	FL-16474-R2
Soffit:	Kaycan	Vinyl/PVC & Aluminum Soffit	FL-16503
		Vinyl Siding	FL-15867-R1
Underlayment:	Woodland	30# Felt	FL-17206-R3
Roofing:	Certainteed	Asphalt Shingles	FL-5444
	GAF	Asphalt Shingles	FL-10124-R16
	Tamko	Asphalt Shingles	FL-18355
Siding:	Allura of Plycem	Cement board lap siding	FL-17482-R2
	James Hardie	Cement board lap siding	FL-13192-R4
Simpson		LSTA – MSTA, SPH4	FL-13872-R2
	GAF	Tiger Paw Underlayment	FL-15487-R5
Metal Roofing		5V Roofing Master Rib Roofing	FL-9555-R3 FL-9557-R3



# Product Evaluation Report TRI COUNTY METALS

29 Ga. Ultra-Rib Roof Panel over 1x4 Wood Purlins over 15/32" Plywood

# Florida Product Approval # 4595.9 R3

Florida Building Code 2014 Per Rule 61G20-3 Method: 1 –D

Category: Roofing
Subcategory: Metal Roofing
Compliance Method: 61G20-3.005(1)(d)
NON HVHZ

### **Product Manufacturer:**

Tri County Metals 301 SE 16<sup>th</sup> Street Trenton, Florida 32693

## **Engineer Evaluator:**

Terrence E. Wolfe, P.E. # 44923 Florida Evaluation ANE ID: 1920

#### Validator:

Locke Bowden, P.E., FL #49704 9450 Alysbury Place Montgomery, AL 36117

#### Contents:

Evaluation Report Pages 1-4

No. 44923

No. 44923

State of Floats

South of Floats

S

April 9, 2015



**Compliance Statement:** 

The product as described in this report has demonstrated compliance with the

Florida Building Code 2014, Sections 1504.3.2, 1504.7.

**Product Description:** 

Ultra-Rib Roof Panel, Min. 29 Ga. Steel, 36" Wide, through fastened roof panel over 1x4 wood purlins over 15/32" APA Plywood decking. Non-structural

Application.

Panel Material/Standards:

Material: Min. 29 Ga. Steel conforming to Florida Building Code 2014 Section

1507.4.3.

Yield Strength: Min. 80.0 ksi

Corrosion Resistance: Panel Material shall comply with Florida Building Code

2014, Section 1507.4.3.

Panel Dimension(s):

Thickness:

0.014" min.

Width:

36" maximum coverage

Rib Height:

¾" major rib at 9" O.C.

**Panel Fastener:** 

#9-15 x 1-1/2" HWH Woodgrip with sealing washing or approved equal

1/4" minimum penetration through plywood

Corrosion Resistance: Per Florida Building Code 2014, Section 1506.6, 1507.4.4

**Substrate Description:** 

Min. 1x4 No. 2 SYP wood purlins over min. 15/32" thick, APA Rated plywood over supports at maximum 24" O.C. The 1x4 wood purlins shall be fastened through the plywood into the wood rafters with minimum (2) 8x3" Deck screw at a maximum of 24" O.C. Design of 1x4 wood purlins, plywood and plywood supports are outside the scope of this evaluation. Substrate must be designed in

accordance w/ Florida Building Code 2014.

**Design Uplift Pressures:** 

Table "A"

Tunio A	Tubio 7			
Maximum Total Uplift Design Pressure:	93.5 psf	138.5 psf		
Fastener Pattern:	9"-9"-9"-9"	6"-3"-6"-3"-6"-3"-6"		
Fastener Spacing:	24" O.C.	24" O.C.		

<sup>\*</sup>Design Pressure includes a Safety Factor = 2.0.





**Code Compliance:** 

The product described herein has demonstrated compliance with The Florida Building Code 2014, Section 1504.3.2, 1504.7.

**Evaluation Report Scope:** 

The product evaluation is limited to compliance with the structural wind load requirements of the Florida Building Code 2014, as relates to Rule 61G20-3.

Performance Standards:

The product described herein has demonstrated compliance with:

- UL 580-06 Test for Uplift Resistance of Roof Assemblies
- UL 1897-04 Uplift Test for Roof Covering Systems
- FM 4471-92 Foot Traffic Resistance Test

Reference Data:

- UL 580-94 / 1897-98 Uplift Test
   Force Engineering & Testing, Inc. (FBC Organization # TST-5328)
   Report No. 136-0408T-09A, B, Dated 11/18/2009
- FM 4471-10, Section 4.4 Foot Traffic Resistance Test Force Engineering & Testing, Inc. (FBC Organization # TST-5328) Report No. 136-0027T-12C, Dated 02/16/2012
- Certificate of Independence By Terrence E. Wolfe, P.E. (No. 44923) @ Force Engineering & Testing, Inc. (FBC Organization # ANE ID: 1920)

**Test Standard Equivalency:** 

- 1. The UL 580-94 test standard is equivalent to the UL 580-06 test standard.
- 2. The UL 1897-98 test standard is equivalent to the UL 1897-04 test standard.
- The FM 4471-10, Foot Traffic Resistance test standard is equivalent to the FM 4471-92, Foot Traffic Resistance test standard

**Quality Assurance Entity:** 

The manufacturer has established compliance of roof panel products in accordance with the Florida Building Code and Rule 61G20-3.005 (3) for manufacturing under a quality assurance program audited by an approved quality assurance entity.

Minimum Slope Range:

Minimum Slope shall comply with Florida Building Code 2014, including Section 1507.4.2 and in accordance with Manufacturers recommendations. For slopes less than 3:12, lap sealant must be used in the panel side laps.

Installation:

Install per manufacturer's recommended details.

**Underlayment:** 

Per Manufacturer's installation guidelines per Florida Building Code 2014.

No. 44923

No. 44923

STATE OF

Seen of Tunida

OOA

SOUND

April 9, 2015



**Roof Panel Fire Classification:** 

Fire classification is not part of this acceptance.

Shear Diaphragm:

Shear diaphragm values are outside the scope of this report.

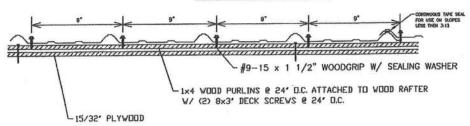
**Design Procedure:** 

Based on the dimensions of the structure, appropriate wind loads are determined using Chapter 16 of the Florida Building Code 2014 for roof cladding wind loads. These component wind loads for roof cladding are compared to the allowable pressure listed above. The design professional shall select the appropriate erection details to reference in his drawings for proper fastener attachment to his structure and analyze the panel fasteners for pullout and pullover. Support framing must be in compliance with Florida Building Code 2014 Chapter 22 for steel, Chapter 23 for wood and Chapter 16 for structural loading.

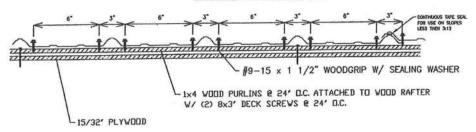


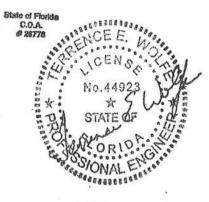
# MIN. 29 GA. ULTRA-RIB PANEL OVER 1X4 WOOD PURLINS

### TYPE 1 FASTENER PATTERN AT 24" O.C.



### TYPE 2 FASTENER PATTERN AT 24" O.C.





APR 09 2015

# Business & Professional Regulation





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Product Approval Menu > Application Detail

FL7347-R5 Application Type Revision 2014 Code Version **Application Status** Approved

Comments Archived

Product Manufacturer Address/Phone/Email Therma-Tru Corporation 118 Industrial Drive Edgerton, OH 43517 (419) 298-1740 rickw@rwbldgconsultants.com

Authorized Signature

Rick Wright

rickw@rwbldgconsultants.com

Technical Representative Address/Phone/Email

Quality Assurance Representative Address/Phone/Email

Category Subcategory **Exterior Doors** 

Swinging Exterior Door Assemblies

Compliance Method

Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer

Evaluation Report - Hardcopy Received

Florida Engineer or Architect Name who developed

the Evaluation Report

Florida License

Quality Assurance Entity

Quality Assurance Contract Expiration Date

Validated By

Lyndon F. Schmidt, P.E.

PE-43409

National Accreditation and Management Institute

12/31/2018 Ryan J. King, P.E.

Validation Checklist - Hardcopy Received

Certificate of Independence

FL7347 R5 COI Certificate Of Independence.pdf

Referenced Standard and Year (of Standard)

Standard Year ANSI/AAMA/NWWDA 101/I.S.2/A440 2005 **ASTM E1886** 2002 **ASTM E1996** 2002 ASTM E330 2002 1994 TAS 201, 202, 203

Equivalence of Product Standards Certified By

Sections from the Code

**Product Approval Method** 

Method 1 Option D

Date Submitted 01/31/2015 Date Validated 02/02/2015 Date Pending FBC Approval 02/06/2015 04/15/2015 Date Approved

FL#	Model, Number or Name	Description							
7347.1	a. "FiberClassic", "SmoothStar", "ClassicCraft" or "ClassicCraft Rustic"	3'0 x 6'8 "Impact" Glazed Fiberglass Single Door (X) - Inswing or Outswing							
Impact Resistar Design Pressure Other: See INST	e outside HVHZ: Yes nt: Yes e: N/A 7347.1 for Design Pressure Ratings by d for any other additional use limitations	Installation Instructions FL7347 R5 II Inst 7347.1.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL7347 R5 AE EVAL 7347.1.pdf Created by Independent Third Party: Yes							
7347.2	b. "FiberClassic", "SmoothStar", "ClassicCraft" or "ClassicCraft Rustic"	3'0 x 6'8 "Impact" Glazed Fiberglass Single Door with Sidelite (OX or XO) - Inswing or Outswing							
Impact Resistar Design Pressure Other: See INST	e outside HVHZ: Yes nt: Yes e: N/A 7347.2 for Design Pressure Ratings by d for any other additional use limitations	Installation Instructions FL7347 R5 II Inst 7347.2.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL7347 R5 AE EVAL 7347.2.pdf Created by Independent Third Party: Yes							
7347.3	c. "FiberClassic", "SmoothStar", "ClassicCraft" or "ClassicCraft Rustic"	3'0 x 6'8 "Impact" Glazed Fiberglass Single Door with Sidelites (OXO) - Inswing or Outswing							
Impact Resistar Design Pressure Other: See INST	e outside HVHZ: Yes nt: Yes e: N/A 7347.3 for Design Pressure Ratings by d for any other additional use limitations	Installation Instructions FL7347 R5 II Inst 7347.3.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL7347 R5 AE EVAL 7347.3.pdf Created by Independent Third Party: Yes							
7347.4	d. "FiberClassic", "SmoothStar", "ClassicCraft" or "ClassicCraft Rustic"	6'0 x 6'8 "Impact" Glazed Fiberglass Double Door (XX) - Inswing or Outswing							
Impact Resistar Design Pressure Other: See INST	e outside HVHZ: Yes nt: Yes : N/A 7347.4 for Design Pressure Ratings by If for any other additional use limitations	Installation Instructions FL7347 R5 II Inst 7347.4.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL7347 R5 AE EVAL 7347.4.pdf Created by Independent Third Party: Yes							
7347.5	e. "FiberClassic", "SmoothStar", "ClassicCraft" or "ClassicCraft Rustic"	6'0 x 6'8 "Impact" Glazed Fiberglass Double Door with Sidelites (OXXO) - Inswing or Outswing							
Impact Resistar Design Pressure Other: See INST	e outside HVHZ: Yes nt: Yes a: N/A 7347.5 for Design Pressure Ratings by If for any other additional use limitations	Installation Instructions FL7347 R5 II Inst 7347.5.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL7347 R5 AE EVAL 7347.5.pdf Created by Independent Third Party: Yes							



4 4 2

Contact Us :: 2601 Blair Stone Road, Tallahassee FL 32399 Phone: 850-487-1824

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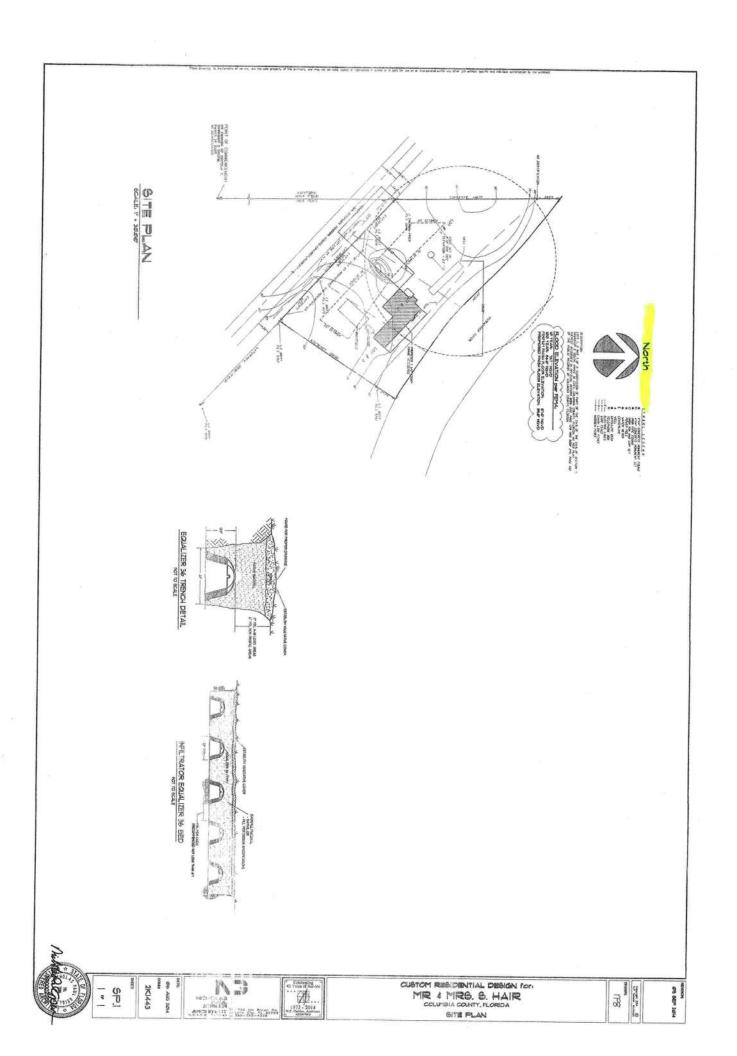
**Product Approval Accepts:** 

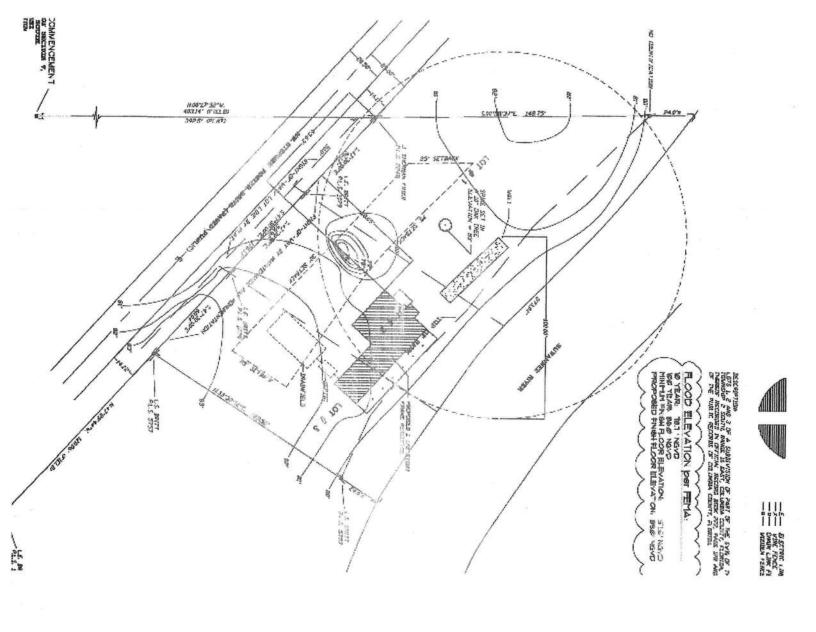
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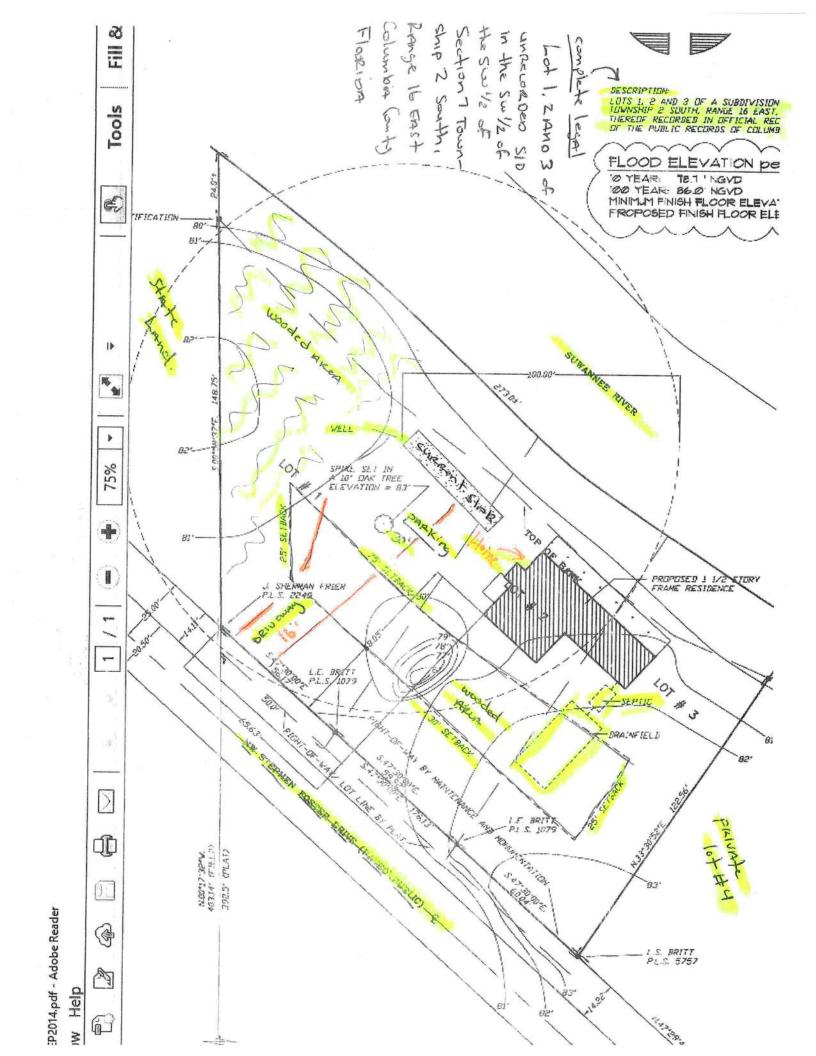
Credit Card Safe securitymetrics





Site plan A. James L. Hair II white springs: columbon County

Ú



RETURN TO JAMES L. HAIR, II 275 NW Stephen Forest Drive White Springs, Florida 32096

Inst: 201612009538 Date: 06/08/2016 Time: 1:09PM Page 1 of 1 B: 1316 P: 1046, P.DeWitt Cason, Clerk of Court Columbia, County, By: BD Deputy ClerkDoc Stamp-Deed: 0.70

### General Warranty Doed

Made this FEBRUARY 13, 2014 A.D.

BY JUDY L. HAIR, , whose address is: 16387 188th Street, O'Brien, Florida 32071, hereinafter called the grantor, As sole Trustee of the Sudy L. Wair Living Trust valed appli 16th 2008 TO JAMES L. HAIR, II AND CRYSTAL N. HAIR, husband and wife, whose post office address is: 275 NW Stephen Forest Drive, White Springs, Florida 32096, hereinafter called the grantee:

(Whenever used herein the term "granter" and "grantee" include all the parties to this instrument and the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporations)

Witnesseth, that the grantor, for and in consideration of the sum of Ten Dollars, (\$10.00) and other valuable considerations, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, aliens, remises, releases, conveys and confirms unto the grantee, all that certain land situate in Suwannee County, Florida, viz:

All of the Grantor's undivided 1/2 Interest in the following described property:

LOT 1, 2 and 3 of GOVT, LOT 9, arrecorded subdivious in Section 7, Township 2 South, Range 16 East, as per that certain map or plat recorded in Official Record Book 241 page 102 of the public records of COLUMBIA COUNTY, FLORIDA.

NB: Being the same lands as shown in Official Record Book 1194 page 2019

Parcel ID Number: 01574-000 & 001373-000

Together with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

To Have and to Hold, the same in fee simple forever.

And the grantor hereby covenants with said grantee that the grantor is lawfully seized of said land in fee simple; that the grantor has good right and lawful authority to sell and convey said land; that the grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances except taxes accruing subsequent to December 31, 2013.

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

Signed, sealed and delivered in our presence:

JUDY L. HAIR as sole trustee of the JUDY L. HAIR LIVING TRUST, dated April 16, 2008

(Seal)

Witness Printed Name

State of FLORIDA County of COLUMBIA

The foregoing instrument was acknowledged before me this February 13, 2014, by Judy L. Hair as sole Trustee of the Judy L. Hair Tide Tout dated A will TE 2000 . the inference of the longuage to

(Whenever used herein the term "grantor" and "grantee" include all the parties to this instrument and the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporations)

Witnesseth, that the grantor, for and in consideration of the sum of Ten Dollars, (\$10.00) and other valuable considerations, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, aliens, remises, releases, conveys and confirms unto the grantee, all that certain land situate in Suwannee County, Florida, viz:

All of the Grantor's undivided 1/2 Interest in the following described property:

LOT 1, 2 and 3 of GOVT. LOT 9, unrecorded subdivision in Section 7, Township 2 South, Range 16 East, as per that certain map or plat recorded in Official Record Book 241 page 102 of the public records of COLUMBIA COUNTY, FLORIDA.

NB: Being the same lands as shown in Official Record Book 1194 page 2029

Parcel ID Number: 01574-000 & 001573-000

Together with all the tenoments, hereditaments and appurtenances thereto belonging or in anywise appertaining.

To Have and to Hold, the same in fee simple forever.

And the grantor hereby covenants with said grantee that the grantor is lawfully seized of said land in fee simple; that the grantor has good right and lawful authority to sell and convey said land; that the grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances except taxes accruing subsequent to December 31, 2013.

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

State of FLORIDA County of COLUMBIA

The foregoing instrument was acknowledged before me this February 13, 2014, by Judy L. Hair as sole Trustee of the Judy L. Hair Living Trust dated April 16, 2008., who is/are personally known to me or who has produced \_\_\_\_\_\_as identification.

Brint Name: 11110

My Contralision Expires:

MICHEL GREENWALD
MY COMMISSION # EE 875335
EXPIRES: June 15, 2017
Bonded Thru Notary Public Underwriters

### SUWANNEE RIVER WATER MANAGEMENT DISTRICT

No. 13-0005

IN RE:			
James Hair,			
	Petitioner,		ORDER
v.			
SUWANNEE F	RIVER WATER NT DISTRICT,		
	Respondent.		

### FINAL ORDER GRANTING VARIANCE

The Suwannee River Water Management District ("District") received a petition on September 27, 2013, from James Hair ("Petitioner"), seeking a variance from Florida

Administrative Code ("Fla. Admin. Code") rule 40B-4.3030(13). Petitioner seeks this variance within a Work of the District in Township 2 South, Range 16 East, Section 07, Columbia County.

Parcel Number 07-2S-16-01574-000 and 07-2S-16-01573-000.

### PROCEDURE AND ALLEGATIONS

- Pursuant to Fla. Stat. § 120.542, Petitioner seeks a variance from Fla. Admin.
   Code rule 40B-4.3030(13) for file number ERP06-0497IM. A true copy of the original Petition for
   Variance is attached to this Order as Exhibit "A".
- 2. The District caused a notice to be published in the Florida Administrative

  Register ("FAR") on October 9, 2013, informing the public that the District had received a

  Petition for Variance which provided an opportunity for comment or objection within fourteen

days of the date of publication in the FAR. A true copy of the notice is attached to this Order as Exhibit "B". The District received no comments or objections to the petition.

3. Petitioner's address is 275 NW Stephen Foster Drive, White Springs, FL 32096, and the property affected by this order is described as follows: 275 NW Stephen Foster Drive, White Springs Florida 32096; Lot 1, 2 and 3 of a subdivision of part of the SW  $\frac{1}{4}$  of the SW  $\frac{1}{4}$  of section 7, township 2 south, range 16 east, Columbia county, Florida, as per plat thereof recorded in official record book 222, page 128 and book 24L, page 102 of the public records of Columbia county, Florida, tax parcel identification number 07-2S-16-01574-000 and 07-2S-16-01573-000.

### As to Location Requirements

4. Petitioner seeks to obtain a variance to Fla. Admin. Code 408-4.3030(13) for construction within the 75 foot setback from the top of the river bank. Petitioner alleges the variance will permit them to build in the only location available to allow them to comply with all the other agency's requirements for protecting the river.

### APPLICABLE LAW

The variance is requested pursuant to Fla. Stat. § 120.542, which provides that:

Variances and waivers shall be granted when the person subject to the rule demonstrates that the purpose of the inderlying statute will be or has been achieved by other means by the person and when application of a rule would create a substantial hardship or would violate principles of fairness. For purposes of this section, "substantial hardship" means a demonstrated economic, technological, legal, or other type of hardship to the person requesting the variance or waiver.

- 6. Petitioner is required to demonstrate that (1) the application of Fla. Admin. Code rule 40B-4.3030(13) would create a substantial hardship or would violate the principles of fairness.
- 7. The purpose of Chapter 373 of the Florida Statutes is to prevent harm to the water resources of the state. To achieve this purpose, District is authorized to require permits for the construction of structures within a Work of the District. To obtain a permit under Chapter 373, an applicant must provide reasonable assurance that the construction will not obstruct the free flow of waters of rivers and streams within the District. See, Fla. Stat. § 373.086 (Providing for works of the district).
- Florida Admin. Code rule 40B-4.3030 became effective as District rule on
   September 25, 1985, and the most recent amendment became effective on October 1, 2013.

### FINDINGS OF FACT AND CONCLUSIONS OF LAW

- 9. Petitioner demonstrated a substantial economic hardship would be created by requiring Petitioner to comply with Fla. Admin. Code 408-4.3030(13) because the lots are not large enough to allow for construction outside the 75 feet satback within the property; therefore, Petitioner has met the requirements for a variance to Fla. Admin. Code 408-4.3030(13) under Fla. Stat. § 120.542. Petitioner has demonstrated that the underlying statute could not be achieved by other means.
- District concludes that the request for variance from Fla. Admin. Code
   40B-4.3030(13) should be granted.

IT IS HEREBY ORDERED:

- The Petition for Variance from Fla. Admin. Code 40B-4.3030(13) is GRANTED with a permanent duration.
  - A copy of this order shall be recorded in the public records of Columbia County.

DONE AND ORDERED this 10 day of December 2013.

SUWANNEE RIVER WATER

Evertine Dicertor

RENDERED on this 10th day of December 2013.

Tim Sagui District Clerk

Copies furnished to:

ERP06-0497M Lindsey Lander James Hair Suzanne Printy, JAPC October 1, 2013

Suwannee River Water Management District 9225 CR 49 Live Oak, FL 32060

# (a) Petition for variance from Ch 40B-4 and 40B-400, Florida Administrative Code

Subject: James Hair WOD Project, ERP06-0497M, Columbia County

- (b) Petitioner: James L. Hair II
  275 NW Stephen Foster Dr.
  White Springs, FL 32096
- (c) Agent: Not Applicable.
- (d) The applicable portion of the rule:The portion of the rule in which the variance is requested is Ch.40B-4.3030(12)(b).
- (e) The citation to the statue the rule is implementing:
  The citation of the statue the rule is implementing is rule Ch. 40B-4.3030(12)(b)
  (No construction, additions or reconstruction shall occur in the front 75 feet of an area immediately adjacent to and including the normally recognized bank of a water).

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SEP 27 2013

COPES TO

### (f) Type of variance requested:

The type of action requested is for a variance from rule Ch. 40B-4.3030(12)(b). This would allow us to have the area needed to build our home on the property for our living needs, store our RV and allow us to use the existing slab of concrete (that was located on the property when we purchased it) as a porch. No land clearing is required to use the slab of concrete. The house will be constructed above the 100 year flood plain as required by the Suwannee River Water Management District.

### (g) Facts that demonstrate hardship:

The lots we have are 110 ft to 122 ft from top of the bank to the right of way on Stephen Foster Drive. The required setback of Columbia County from the road right of way is 30 ft and the required setback of the Suwannee River Water Management District is 75 ft from the top of the bank. This leaves a small area of a maximum of 17 ft and a minimum of 5 ft to build a home. The septic system and the well must be 75 ft apart. The septic system is on the far right of the property and the well is on the far left of the property. The only location to place our home is in the center, which will leave us enough room for parking on the left side. This variance will permit us to build our home in the only location available to allow us to comply with all the other agency's requirements for protecting our river.

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SEP 27 2013

COME TO THE ERPOB-04977

(h) The reason the variance or waiver requested would serve the purpose of the underlying statute:

Building a home in this property within the 75' top of bank set-back is not possible due to the size of the lot, the location of the septic system, the location of the well and Columbia County building set-backs. However, granting the variance or waiver requested would serve the purpose of the underlying statute by not obstructing flows to the river. Also, by building above the 100 year flood plain the requirements of Columbia County Building Department and Suwannee River Water Management District will be satisfied. The house will also be designed and constructed to meet all current building codes. Due to the restraints the property faces, we cannot completely comply with Florida Administrative Code, however with the variance request approved, we can and will meet as much of the rule as possible.

### (i) Permanent waiver/variance requested

It is our wish that a permanent waiver or variance be granted for the following:

1.) Ch. 40B-4.3030(12)(b) (No construction, additions or reconstruction shall occur in the front 75 feet of an area immediately adjacent to and including the normally recognized bank of a water). Thus, a permanent variance is requested to build a home within the 75 ft setback area, above the 100 year flood plain.

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SEP 27 2013

ORIGINAL TO FILE <u>E12POL-0497 m</u> COPIES TO Please take into consideration the above request for variance. Approval of the request would allow for the construction of our future home, build to current building codes and prevent future negative impacts on the flow of the Suwannee River during flood stage.

Thank you for your consideration.

Sincerely,

James L Hone IF

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SEP 27 2013

ORIGINAL TO THE ERPOL-0497M

recreational harvest and possession of red grouper, black grouper, yellowfin grouper, yellowmouth grouper, rock hind, red hind or scamp shall be from February 1 through March 31, each year.

(1)(2)(a) through (b) No change.

(2)(3) In all state waters of the Atlantic Ocean, including all waters of Monroe County, the closed season for the recreational harvest and possession of gag grouper, black grouper, red grouper, yellowfin grouper, yellowmouth grouper, rock hind, red hind, scamp, coney, graysby, and tiger grouper shall be from January 1 through April 30 each year. Rulemaking Authority Art. IV, Sec. 9, Fla. Const. Law Implemented Art. IV, Sec. 9, Fla. Const. History-New 1-6-09, Amended 8-27-09, 1-19-10, 6-17-11, 3-23-12, 5-9-13,

# Section III Notice of Changes, Corrections and Withdrawals

### DEPARTMENT OF FINANCIAL SERVICES

Division of Co	onsumer Services
RULE NOS.:	RULE TITLES:
69J-8.001	Purpose
69J-8.002	Definitions
69J-8.003	Neutral Evaluator Coarse Approval
69J-8.004	Qualification and Certification of Neutral Evaluators
69J-8.005	Maintenance of a List of Neutral Evaluators
69J-8.006	Notice of Program
69J-8.007	Request for Evaluation
69J-8.008	Selection of Neutral Evaluator
69J-8.009	Evaluation Process
<b>69J-8.</b> 010	Appointment of Department Employee for Consultation for Policyholder Not Represented by an Attorney
69J-8.011	Neutral Evaluator's Report NOTICE OF CORRECTION

Notice is hereby given that the following correction has been made to the proposed rule in Volt 39, No. 174, September 6, 2013 issue of the Florida Administrative Register.

This notice is to correct the following date that was incorrectly printed in the notice. The proposed rule should have read as follows:

DATE NOTICE OF PROPOSED RULE DEVELOPMENT PUBLISHED IN FAR: Merch 20, 2013

### Section IV Emergency Rules

### MONE

# Section V Petitions and Dispositions Regarding Rule Variance or Waiver

WATER MANAGEMENT DISTRICTS

Suwannee River Water Management District

RULE NO .: RULE TITLE:

40B-4.3030 Conditions for Issuance of Works of the District Permits

MOTICE IS HEREEY GIVEN that on September 27, 2013, the Suwannee River Water Management District, received a petition for variance from James L. Hair, II, 275 NW Stephen Foster Dr., White Springs, FL 32096, pursuant to Section 120.542, F.S. Petitioner is seeking a variance from paragraph 40B-4.3030(12)(b), F.A.C., as to no construction, additions or reconstruction shall occur in the front 75-feet of an area immediately adjacent to and including the normally recognized bank of a water. Petitioner proposes to construct a residence within the 75-foot set-back due to the size of lot, in Columbia County, in Township 2 South, Range 16 East, Section 07. These rules are intended to set forth criteria for development activities within a Works of the District. The petition has been assigned ERP Number 06-0497M, James Hair District Floodway Project Modification.

A copy of the Petition for Variance or Waiver may be obtained by contacting: Tilda Musgrove, Business Resource Specialist, Suwannee River Water Management District, 9225 CR 49, Live Oak, FL 32060, (386)362-1001 or 1(800)226-1066 in Florida only.

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

Tivision of Fictols and Restaurants

BULE NO .: RULE TITLE:

61C-5.001 Safety Standards

The Department of Business and Professional Regulation, Division of Hotels and Restaurants, Bureau of Elevator Safety hereby gives notice: on October 7, 2013, the Division issued an order. The Final Order was in response to a Petition for an emergency Variance from Universal Studios-Project 722, filed September 10, 2013, and advertised on September 16, 2013 in Vol. 39, No. 180, or the Florida Administrative Register. No comments were received in response to the petition. The Final Order on the Petition for Variance grants the Petitioner a variance from Rule 2.20.4, 2.18.5.1, 8.11.2.1(cc)(1)&(3) ASME A17.1b, 2009 edition, as 2.20.4, 2.18.5.1 and 8.11.2.1.3(cc)(1) & (3) as adopted by paragraph 61C-1.001(1)(a), Florida Administrative Code that requires steel topes of a minimum diameter of 9.5 mm which poses a



GTC Design Group, LLC P.O. Box 187 Live Oak, FL 32064 (Phone) 386.362.3678 (Fax) 386.362.6133 ggill@gtcdesigngroup.com

September 11, 2006

# Zero 14 se Certification

Client / Owner:

James L. Hair II

Property Description:

Lot 2 of unrecorded S/D in the SW 1/2 of the SW 1/2 of

Section 7, Township 2 South, Range 16 East

Columbia County, FL

Structure in Floodway:

Single Family Dwelling

River Mile:

169.5

Elevation of 100 yr flood: 87

Community Panel:

120070 0105 B

I hereby certify that construction of the proposed residence will not increase flood elevations of the Upper Suwannee River.

Chadwick-Williams, PE

September 11, 2006

# Custom River House Design for: Mr. & Mrs. S. Hair Columbia County, Florida

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CUSTOM RESIDENTIAL DESIGN FOR: MR & MRS. S. HAIR COLUMBIA CONTY, FLORIDA COVER SHEET

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NOTICE TO HOMEOWNER

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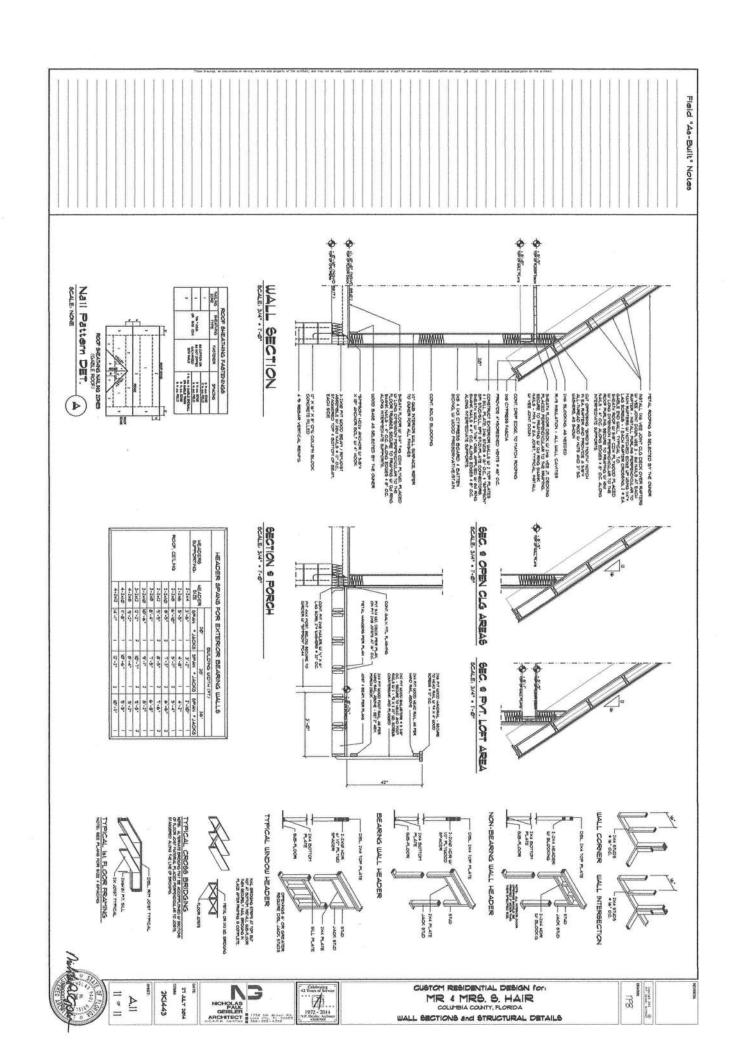
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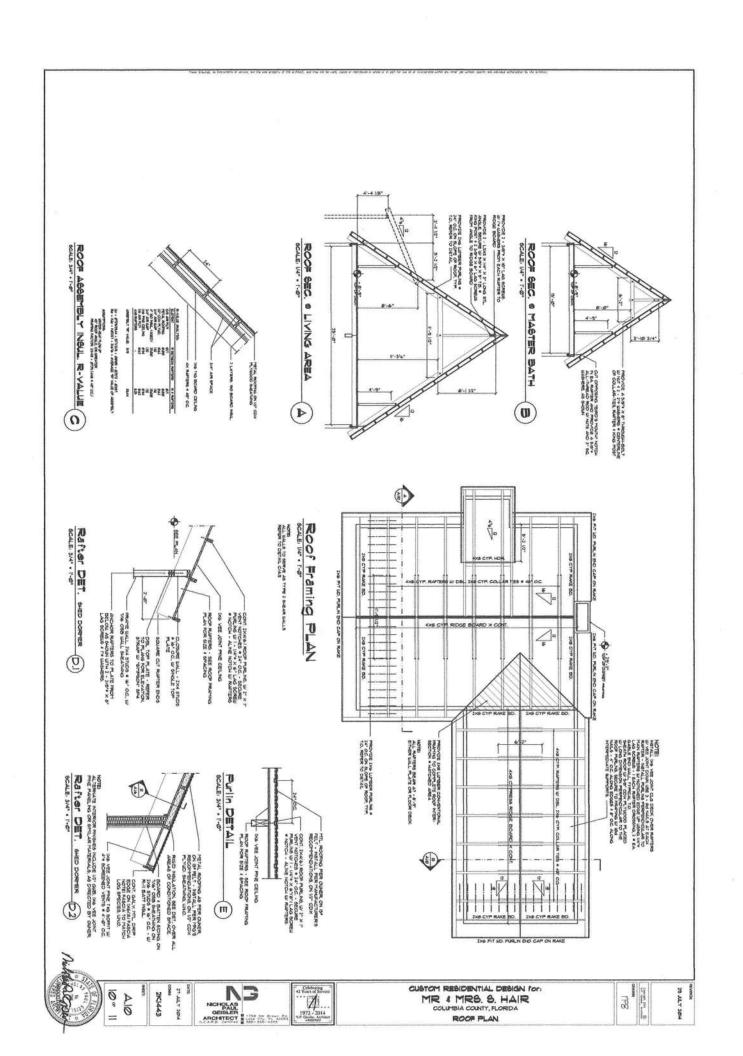
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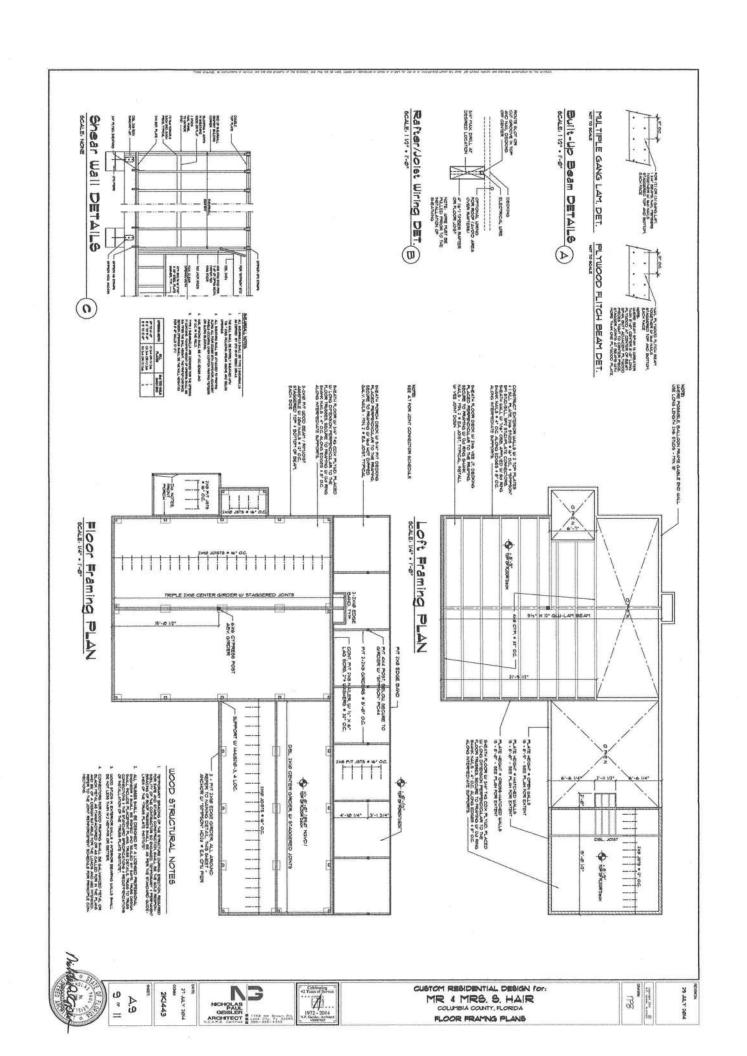
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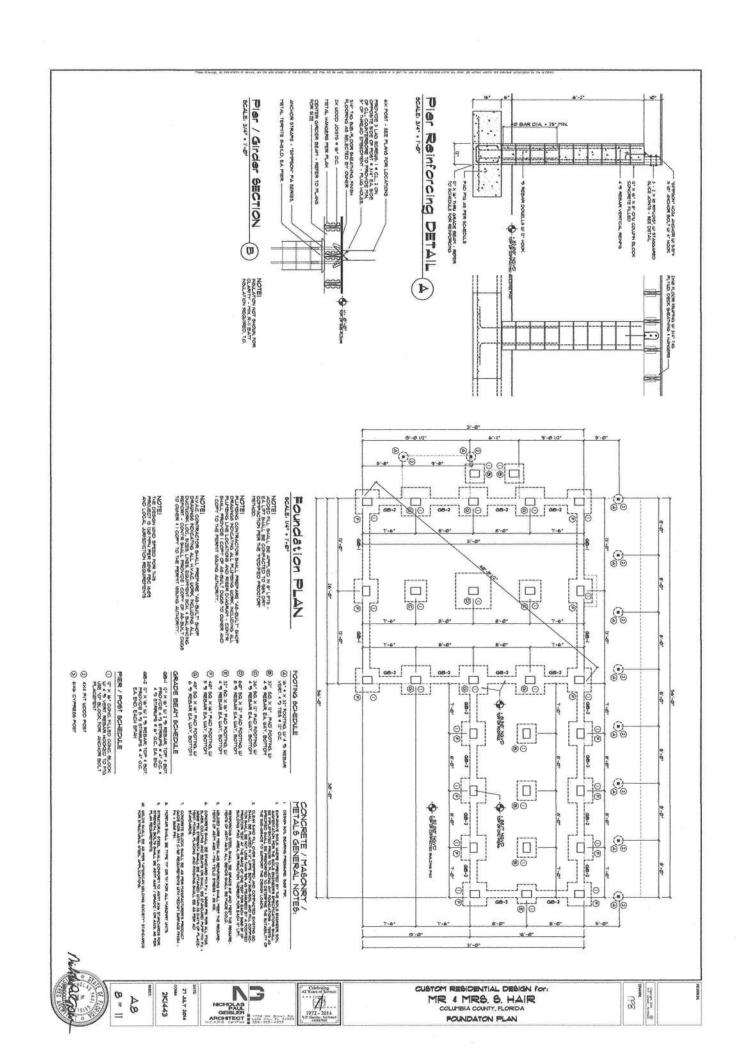
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GENERAL INFORMATION & NOTES









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> CUSTOM RESIDENTIAL DESIGN FOR: MR 4 MRS. S. HAIR COLUMBIA COUNTY, FLORIDA STRUCTURAL INFORMATION

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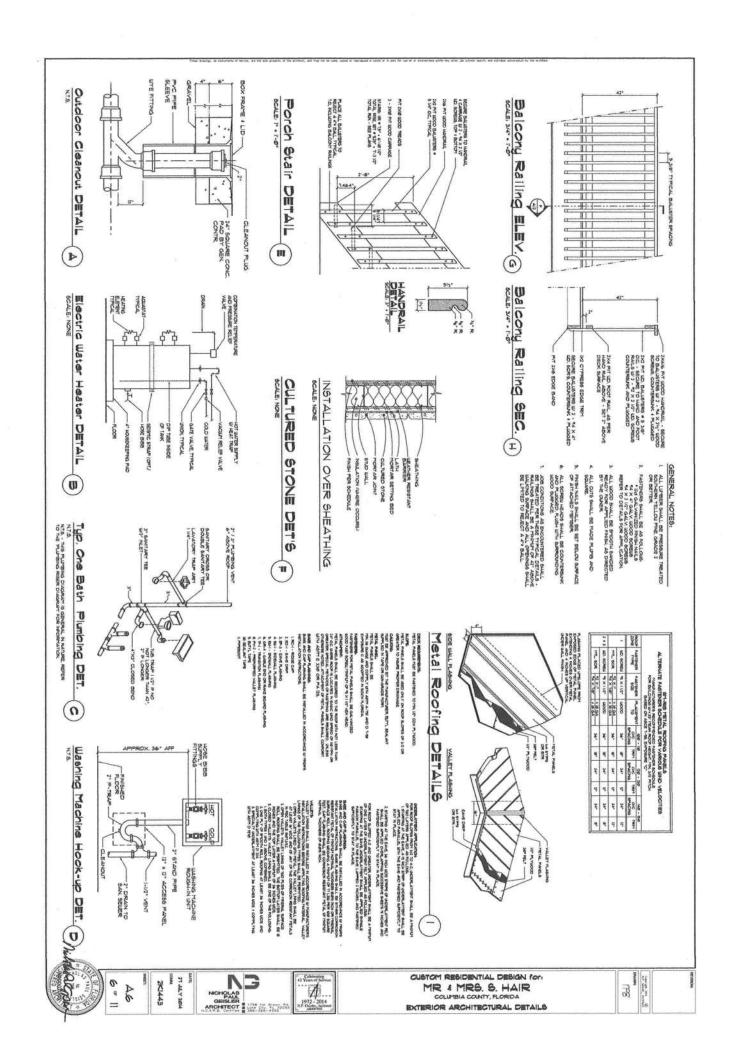
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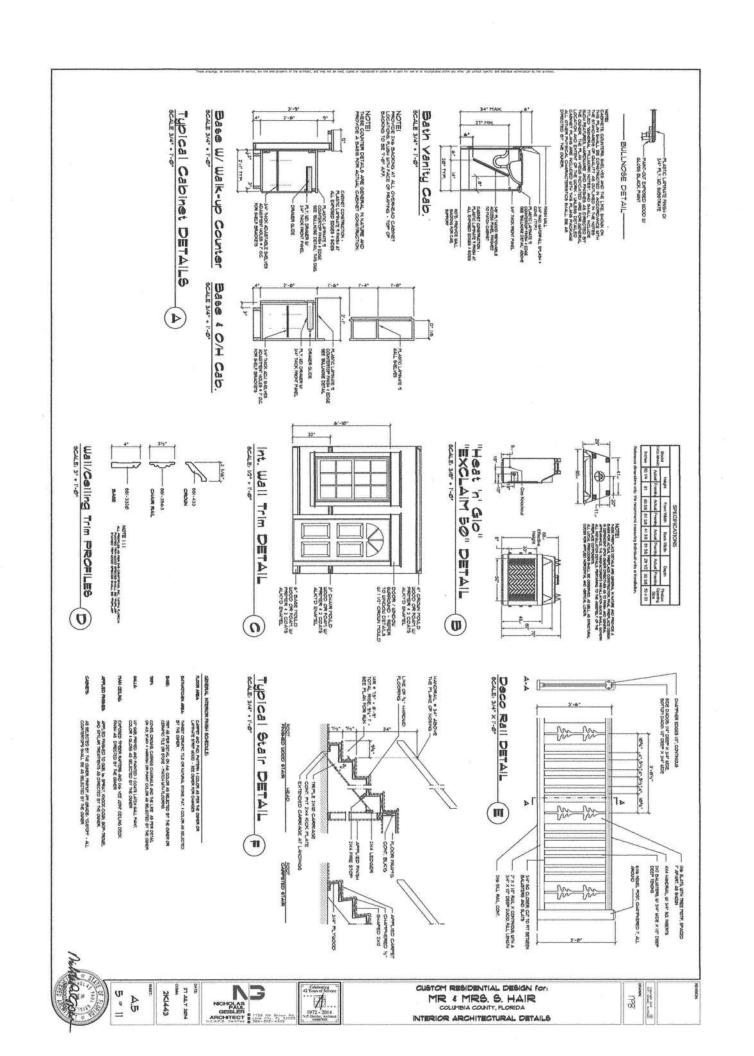
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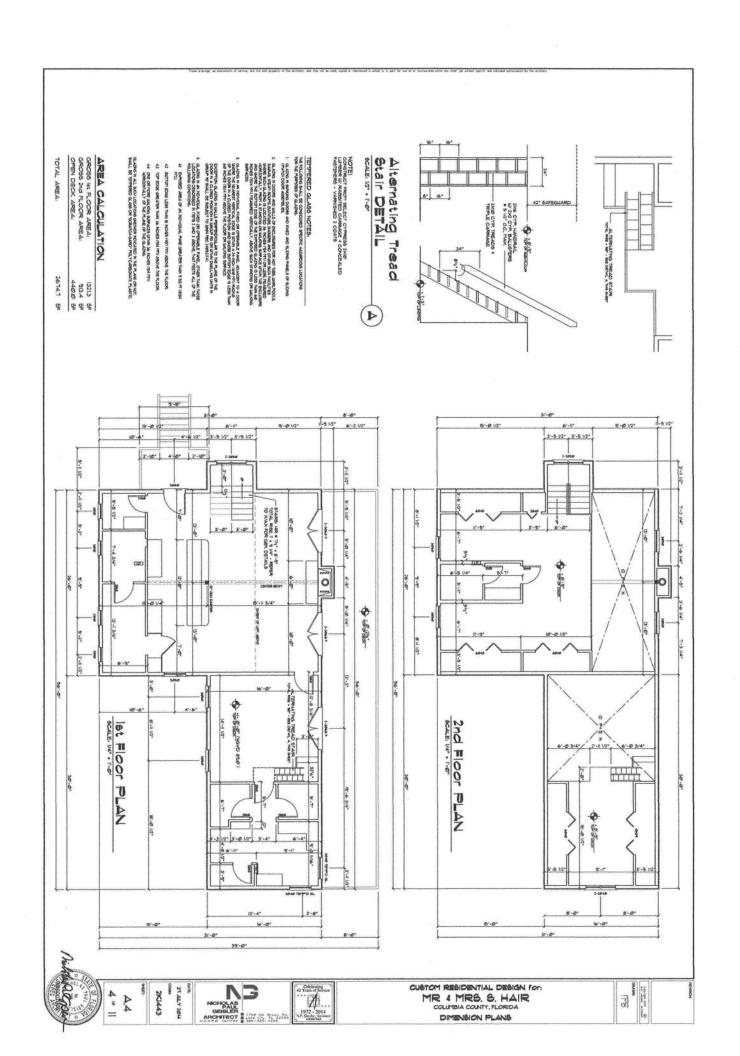
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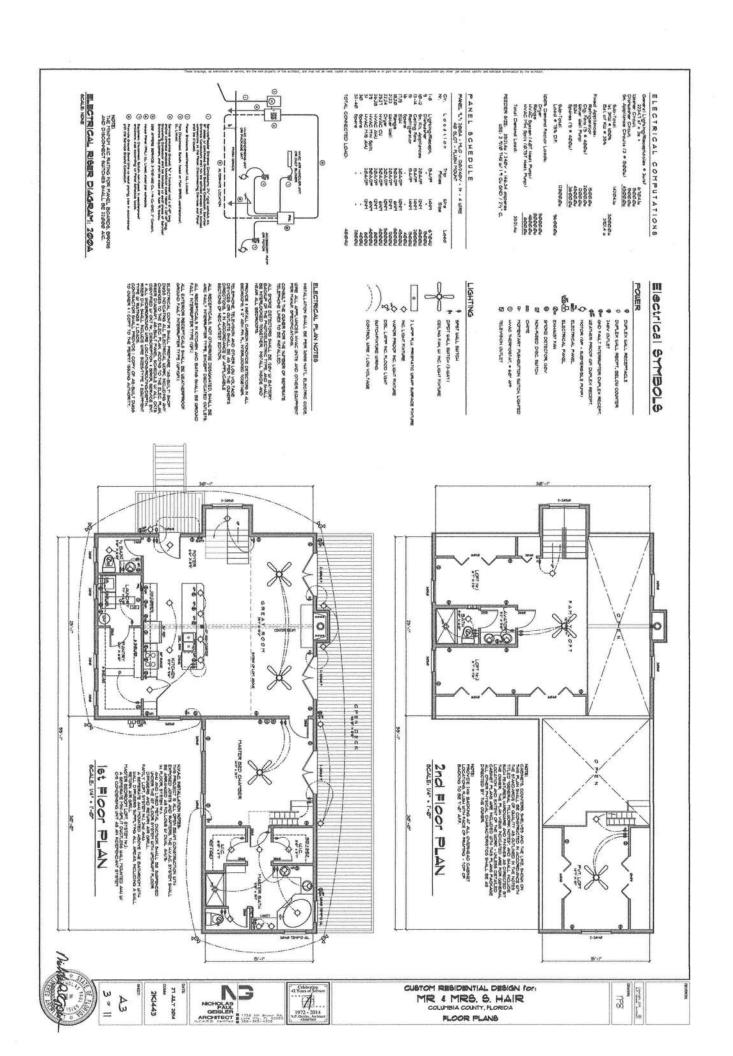
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Trans. at 10 8









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CUSTOM RESIDENTIAL DESIGN FOR: MR 4 MRS. S. HAIR COLUMBIA COUNTY, FLORIDA GENERAL INFORMATION 4 NOTES

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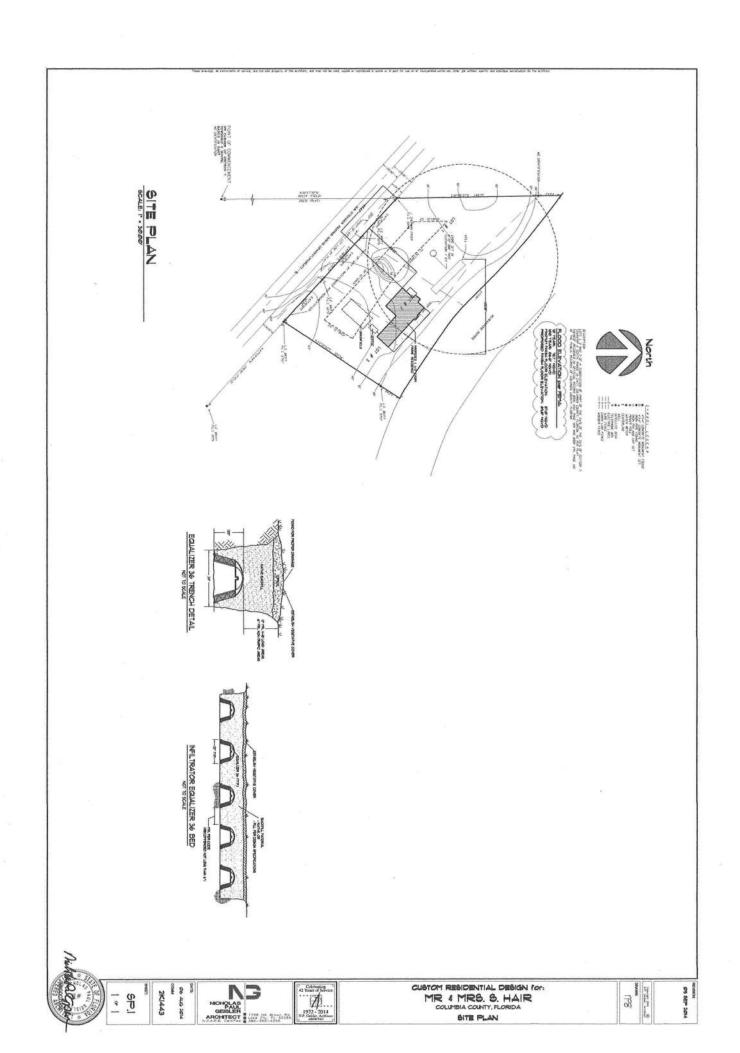
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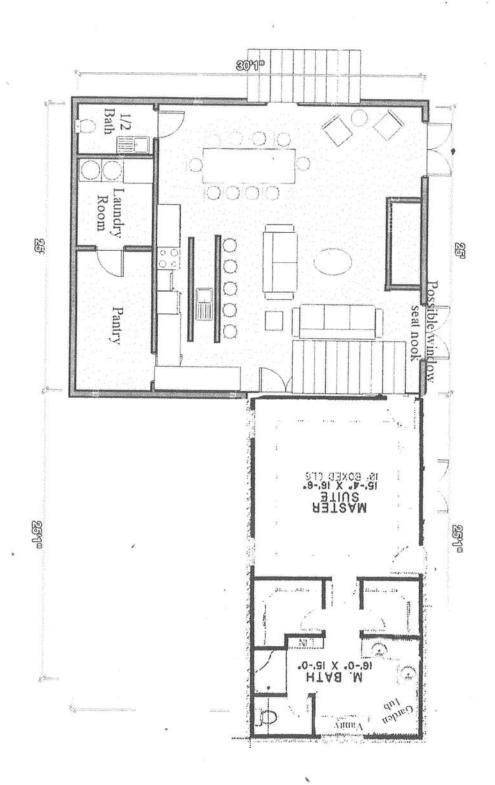
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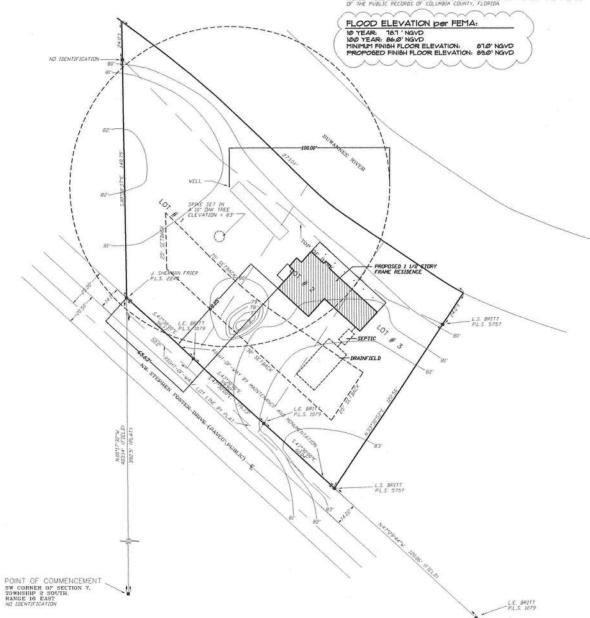




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(DTS 1 2 AND 2 OF A SUBDIVISION OF PART OF THE SVM, OF THE SVM, OF SECTION 7, TOWNSHIP 2 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA, AS PER PLAT THEREOF RECORRED IN OFFICIAL RECORD BOOK 202, PAGE 208 AND BOOK 241, PAGE 102 OF THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA.





SCALE: I" = 30.00"