APP# 43769

Columbia County New Building Permit Application 50001

For Office Use Only Application # 1909-94 Date Received 9/27/18 By Uth Permit # 3881
Zoning Official W Date 0-2-19 Flood Zone X Land Use LLO Zoning V5F-2
FEMA Map # N/A Elevation N/A MFE / Above River N/A Plans Examiner Date
Comments 1' above road Front 25' Sides 10' hear 15'
NOC FEH Deed of PA Site Plan - State Road Info - Well letter - 911 Sheet - Parent Parcel #
Dev Permit # In Floodway Letter of Auth. from Contractor F W Comp. letter
Owner Builder Disclosure Statement    Land Owner Affidavit    Ellisville Water    App Fee Paid    Sub VF Form
Septic Permit No. 19-0777 OR City Water Fax
Applicant (Who will sign/pickup the permit) KEVIN BEDENBOUGH Phone 365-5264
Address 232 NW Chaoley CW Lake Cty, FC 32055
Owners Name Michael WOOD Phone 586-438-4281
911 Address 1448 NW OLD MILL DRIVE, Lake City, FC 32055
Contractors Name Kevin BEDENSAUGH Phone 3655264
Address 232 NW Chaoley CW, Cake Cty, FC 32055
Contractor Email Runs level Construction @ Gusil - ***Include to get updates on this job.
Fee Simple Owner Name & Address
Bonding Co. Name & Address
Architect/Engineer Name & Address Will Myers 426 5N Commerce Dr. 57. 130 GC
Mortgage Lenders Name & Address
Circle the correct power company FL Power & Light Clay Elec. Suwannee Valley Elec. Duke Energy
Property ID Number 27-35-16 62310 - 010 Estimated Construction Cost 575,000
Subdivision NameLotBlockUnitPhase
Driving Directions from a Major Road Lake Jeffey Hay, Left on OCD MILL RD.  Follow All The way Down on the Right.
Follow All The way Down on The Roght.
Construction of SF Residential Commercial OR Residential
Proposed Use/Occupancy SF Residence Number of Existing Dwellings on Property O
Is the Building Fire Sprinkled? NO If Yes, blueprints included Or Explain
Circle Proposed Culvert Permit or Culvert Waiver or D.O.T. Permit or Have an Existing Drive
Actual Distance of Structure from Property Lines - Front 574 Side 25 Side 25 Rear 363  Number of Stories 1 Heated Floor Area 7700 Acreage 368 4.
Number of Stories Heated Floor Area 700 Acreage 565 9.
Zoning Applications applied for (Site & Development Plan, Special Exception, etc.)
Ut - Emailed Kevin (0/10/19 Page 1 of 2 (Both Pages must be submitted together.) Revised 7-1-15

#### **Columbia County Building Permit Application**

#### CODE: Florida Building Code 2017 and the 2014 National Electrical Code.

Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work be performed to meet the standards of all laws regulating construction in this jurisdiction.

<u>TIME LIMITATIONS OF APPLICATION</u>: An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless pursued in good faith or a permit has been issued.

<u>TIME LIMITATIONS OF PERMITS:</u> Every permit issued shall become invalid unless the work authorized by such permit is commenced within 180 days after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of 180 days after the time work is commenced. A valid permit receives an approved inspection every 180 days. Work shall be considered not suspended, abandoned or invalid when the permit has received an approved inspection within 180 days of the previous approved inspection.

<u>FLORIDA'S CONSTRUCTION LIEN LAW: Protect Yourself and Your Investment:</u> According to Florida Law, those who work on your property or provide materials, and are not paid-in-full, have a right to enforce their claim for payment against your property. This claim is known as a construction lien. If your contractor fails to pay subcontractors or material suppliers or neglects to make other legally required payments, the people who are owed money may look to your property for payment, <u>even if you have paid your contractor in full</u>. This means if a lien is filed against your property, it could be sold against your will to pay for labor, materials or other services which your contractor may have failed to pay.

NOTICE OF RESPONSIBILITY TO CONTRACTOR AND AGENT: YOU ARE HEREBY NOTIFIED as the recipient of a building permit from Columbia County, Florida, you will be held responsible to the County for any damage to sidewalks and/or road curbs and gutters, concrete features and structures, together with damage to drainage facilities, removal of sod, major changes to lot grades that result in ponding of water, or other damage to roadway and other public infrastructure facilities caused by you or your contractor, subcontractors, agents or representatives in the construction and/or improvement of the building and lot for which this permit is issued. No certificate of occupancy will be issued until all corrective work to these public infrastructures and facilities has been corrected.

<u>WARNING TO OWNER:</u> YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

OWNERS CERTIFICATION: I CERTIFY THAT ALL THE FOREGOING INFORMATION IS ACCURATE AND THAT ALL WORK WILL BE DONE IN COMPLIANCE WITH ALL APPLICABLE LAWS REGULATING CONSTRUCTION AND ZONING.

<u>NOTICE TO OWNER:</u> There are some properties that may have deed restrictions recorded upon them. These restrictions may limit or prohibit the work applied for in your building permit. You must verify if your property is encumbered by any restrictions or face possible litigation and or fines.

\*\*Property owners <u>must sign</u> here <u>before</u> any permit will be issued.

\*\*If this is an Owner Builder Permit Application then, ONLY the owner can sign the building permit when it is issued.

<u>CONTRACTORS AFFIDAVIT:</u> By my signature I understand and agree that I have informed and provided this written statement to the owner of all the above written responsibilities in Columbia County for obtaining this Building Permit including all application and permit time limitations.

Contractor's License Number CGC 1516092

Contractor's Signature

Columbia County
Competency Card Number 377

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 7 day of 50 for Produced Identification

Personally known or Produced Identification

SEAL:

State of Florida Notary Signature (For the Contractor)

Contractor's License Number CGC 1516092

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 7 day of 50 for Day 10 for Produced Identification

LAURIE HODSON
MY COMMISSION # FF 976102

EXPIRES: July 14, 2020

Bended Thru Notary Public Underwriters

### SUBCONTRACTOR VERIFICATION

APPLICATION/PERMIT #	JOB NAME WOD
----------------------	--------------

## THIS FORM MUST BE SUBMITTED BEFORE A PERMIT WILL BE ISSUED

Columbia County issues combination permits. One permit will cover all trades doing work at the permitted site. It is <a href="REQUIRED">REQUIRED</a> that we have records of the subcontractors who actually did the trade specific work under the general contractors permit.

**NOTE:** It shall be the responsibility of the general contractor to make sure that all of the subcontractors are licensed with the Columbia County Building Department.

Use website to confirm licenses: http://www.columbiacountyfla.com/PermitSearch/ContractorSearch.aspx

**NOTE:** If this should change prior to completion of the project, it is your responsibility to have a corrected form submitted to our office, before that work has begun.

Violations will result in stop work orders and/or fines.

ELECTRICAL	Print Name RYAN BEVILLE Signature Ryk Benle	Need 5 Lic
	Company Name: R.B.T ELECTRICAL CONTRACTIVE LLC	Liab W/C
cc# 811	License #: EC 1300 4234 Phone #: 352 - 339 - 0369	□ EX
MECHANICAL	Print Name Tim Shatto Signature Tim Shaffer	Need
A/C B	Company Name: SHATED HEATING & AIR FOR	□ Lic □ Liab
cc# 770	License #: <u>CAC 057875</u> Phone #: <u>386 - 496 - 8 224</u>	— □ W/C □ EX — □ DE
PLUMBING/	Print Name MARIC GANSKOP Signature Mark But	Need
GAS V	Company Name: Express flumba	□ Lic
cc# 623	License #: <u>CFC 1428040</u> Phone #: <u>867 - 0269</u>	— □ w/c □ Ex — □ DE
ROOFING	Print Name Kevin BEDENBAUGH Signature	Need
V	Company Name: Plums Level Construction	– ⊡ Lic ⊡ Liab
cc#/056	License #:	- □ w/c □ Ex
SHEET METAL		- □ DE
	Print NameSignature	Need □ Lic
CC#	Company Name:	□ Liab □ W/C
CC#	License #:Phone #:	□ EX □ DE
FIRE SYSTEM/	Print NameSignature	Need
SPRINKLER	Company Name:	□ Lic □ Liab
CC#	License#:Phone #:	□ W/C
SOLAR	Print NameSignature	DE Need
	Company Name:	Ū Lic □ Liab
CC#	License #: Phone #:	□ W/C □ EX
STATE		□ DE Need
SPECIALTY	Signature	☐ Lic
1	Company Name:	☐ Liab ☐ W/C
CC#	License #: Phone #:	☐ EX ☐ DE
1-4- F.C. 440 400		

Ref: F.S. 440.103; ORD. 2016-30

### **Columbia County Property Appraiser**

Jeff Hampton

Parcel: << 27-3\$-16-02310-010 >>>

# 2019 Preliminary Certified Values updated: 8/14/2019

Google Maps

Aerial Viewer

Pictometery

Owner & Pr	operty Info	Result	: 3 of 6	
Owner	WOOD MICHAI 328 W HOWAR LIVE OAK, FL 3	D ST		
Site	,			
Description*	BEG AT NE COR OF SEC, RUN S 1031.64 FT TO N R/W OF SCL RR, N 73 DG W			
Area	4.95 AC S/T/R 27-3S-16			
Use Code**	SINGLE FAM (000100)	Tax District	2	

<sup>\*</sup>The Description above is not to be used as the Legal Description for this

parcel in any legal transaction.

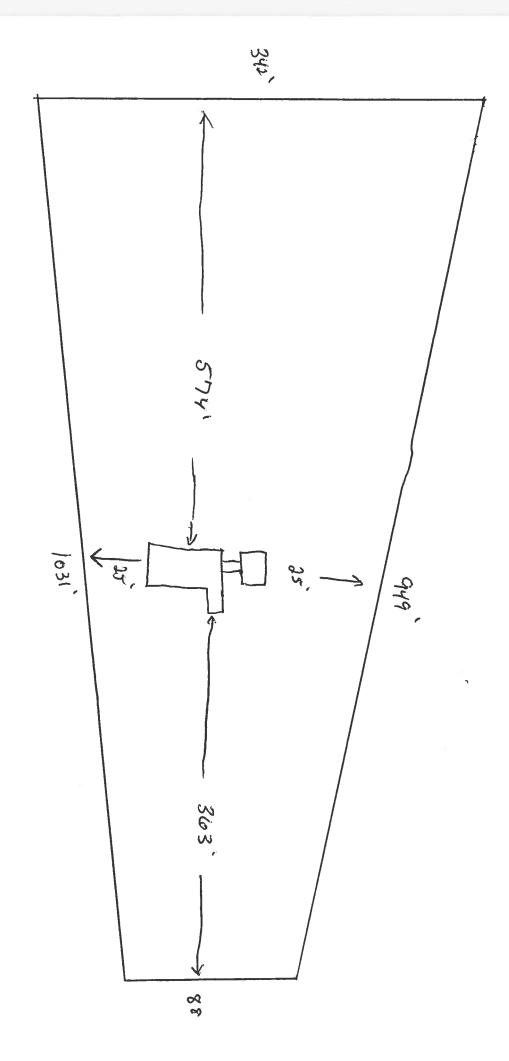
\*\*The <u>Use Code</u> is a FL Dept. of Revenue (DOR) code and is not maintained by the Property Appraiser's office. Please contact your city or county Planning & Zoning office for specific zoning information.

	Vellai Alemei	Pictornetery	Google Map	5
		3 3	A CONTRACTOR	C Salle
_		100		Take of
_				
-			9	
5				
	THE INTERSTATE	e e		15-
fied				
30,0				
,69 ),00				IN WHAT!
5,77				C W
5,77			1110	
5,77			11/1	15
92				1200
.77	25.00	1	march 1	

Property &	Assessment V	alues	
2018 Cer	tified Values	2019 Prelim	inary Certific
Mkt Land (1)	\$170,081	Mkt Land (1)	\$170,0
Ag Land (0)	\$0	Ag Land (0)	
Building (1)	\$53,028	Building (1)	\$55,
XFOB (1)	\$10,000	XFOB (1)	\$10,0
Just	\$233,109	Just	\$235,7
Class	\$0	Class	
Appraised	\$233,109	Appraised	\$235,7
SOH Cap [?]	\$0	SOH Cap [?]	
Assessed	\$233,109	Assessed	\$235,7
Exempt	\$0	Exempt	
	county:\$195,388		county:\$214,\$
Total	city:\$195,388	Total	city:\$214,\$
Taxable	other:\$195,388	Taxable	other:\$214,\$
	school:\$233,109		school:\$235,7

Sale Date	Sale Price	Book/Page	Deed	V/I	Quality (Codes)	RCode
6/23/2015	\$172,000	1297/0118	WD	ı	Q	01
4/2/2012	\$100	1232/1196	WD	1	U	11
9/30/2011	\$133,000	1222/0768	WD	1	U	12
6/3/2011	\$145,000	1215/2270	WD	1	U	12
11/3/2005	\$400,000	1065/0495	WD	1	Q	
8/5/1988	\$60,000	658/0678	WD	V	Q	
4/1/1986	\$1	591/0197	WD	V	U	01

▼ Building Characteristics								
Bldg Sketch	Bldg Item	Bldg Desc*	Year Blt	Base SF	Actual SF	Bldg Value		



#### Legend

#### Parcels

#### 2018Aerials



SectionTownshipAndRange

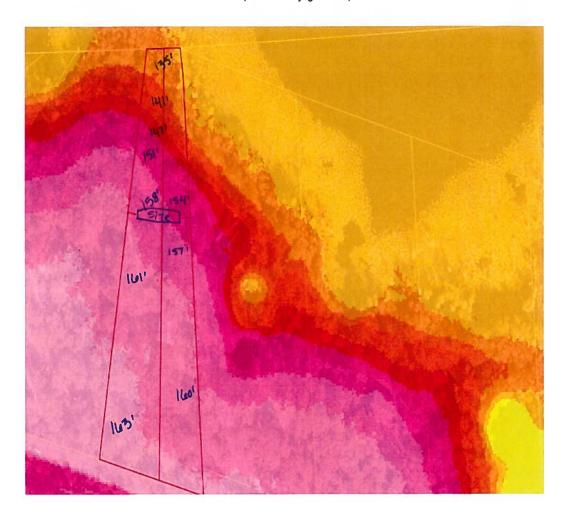
#### Roads

- Roads
- others
- Dirt 🍭
- Interstate
- Main
- Other
- Paved
- Private

LidarElevations

### Columbia County, FLA - Building & Zoning Property Map

Printed: Wed Oct 02 2019 13:30:01 GMT-0400 (Eastern Daylight Time)



#### Parcel Information

Parcel No: 27-3S-16-02310-010 Owner: WOOD MICHAEL W

Subdivision:

Lot

Acres: 4.839492 Deed Acres: 4.95 Ac

District: District 3 Bucky Nash Future Land Uses: Residential - Low

Flood Zones: A,

Official Zoning Atlas: RSF-2

All data, information, and maps are provided as is without warranty or any representation of accuracy, timeliness of completeness. Columbia County, FL makes no warranties, express or implied, as to the use of the information obtained here. There are no implies warranties of merchantability or fitness for a particular purpose. The requester acknowledges and accepts all limitations, including the fact that the data, information, and maps are dynamic and in a constant state of maintenance, and update.

Inst. Number: 201512011149 Book: 1297 Page: 118 Date: 6/26/2015 Time: 10:48:00 AM Page 1 of 3

Doc Deed: 1204.00 P.DeWitt Cason Clerk of Courts, Columbia County, Florida

This instrument was prepared by: GAIL E. STEVENS, P.A. 412 N.E. 4TH STREET FT. LAUDERDALE, FLORIDA 33301 Tax I.D.: 27-3S-16-02310-010

Inst:201512011149 Date:6/26/2015 Time:10:48 AM Dog Stamp-Deed:1204:00 DC:P.DeWitt Cason,Columbia County Page 1 of 3 B:1297 P:118

#### **WARRANTY DEED**

This Indenture, Made this 23 day of JUNE, 2015, Between

SALVATORE ANNINO, a single man. 327 Coconut Isle, Ft. Lauderdale, Florida 33301 of the State of FLORIDA, Grantor, to

MICHAEL W. WOOD, a married man 328 W. Howard Street, Live Oak, Florida 32064

of the State of FLORIDA, Grantee,

WITNESSETH, That said grantor, for and in consideration of the sum of TEN AND NO/100 Dollars, and other good and valuable considerations to said grantor in hand paid by said grantee, the receipt whereof is hereby acknowledged, has granted, bargained and sold to the said grantee, and grantee's heirs and assigns forever, the following described land, situate, lying and being in COLUMBIA County, Florida, to wit:

SEE LEGAL DESCRIPTION ATTACHED HERETO AS EXHIBIT "A".

SUBJECT TO: 1) land use designation, zoning restrictions, prohibitions and other requirements imposed by governmental authority; 2) Restrictions, covenants and easements of record; 3) public utility easements of record, provided this shall not serve to reimpose any of the foregoing. 4) Taxes for the year 2015 and subsequent years.

And said grantor does hereby fully warrant the title to said land, and will defend the same against the lawful claims of all persons whomsoever.

IN WITNESS WHEREOF, Grantor has hereunto set his hand and seal the day and year first above written.

Signed, sealed and delivered in the presence of:

Witness #1 Signature

Witness #2 Signature

ephen M. Blitchburn

SAL WATORE ANNING

Inst. Number: 201512011149 Book: 1297 Page: 119 Date: 6/26/2015 Time: 10:48:00 AM Page 2 of 3 Doc Deed: 1204.00 P.DeWitt Cason Clerk of Courts, Columbia County, Florida

#### STATE OF FLORIDA **COUNTY OF BROWARD**

THE FOREGOING instrument was acknowledged before me this 23 day of JUNE, 2015 by SALVATORE ANNINO who IS/ARE \_\_\_\_ personally known to me, OR, who has produced \_\_\_ Drivers Licenses other:\_ identification.

**Notary Public** 



Inst. Number: 201512011149 Book: 1297 Page: 120 Date: 6/26/2015 Time: 10:48:00 AM Page 3 of 3

Doc Deed: 1204.00 P.DeWitt Cason Clerk of Courts, Columbia County, Florida

# EXHIBIT A (Legal Description)

A parcel of land lying, being and situate in the NE 1/4 of the NE 1/4 of Section 27, Township 3 South, Range 16 East, Columbia County, Florida, more particularly described as follows:

Begin at the NE corner of said Section 27; thence run S 02 degrees 16 minutes 07 seconds E, along the East line of said Section 27, a distance of 1031.64 feet to the Northerly right of way line of the Seaboard Coastline Railroad; thence run N 73 degrees 24 minutes 13 seconds W, along said Northerly right of way line, a distance of 342.00 feet; thence run N 10 degrees 44 minutes 01 seconds E, a distance of 949.92 feet to the North line of said Section 27; thence run S 89 degrees 55 minutes 22 seconds E, along said North line of Section 27, a distance of 110.00 feet to the Point of Beginning.

TOGETHER WITH a non-exclusive perpetual easement for roadway purposes as described in OR Book 827, Page 5, of the Public Records of Columbia County, Florida.

LESS AND EXCEPT that part of the above parcels lying within the right of way of Seaboard Coastline Railroad.

TOGETHER WITH a non-exclusive perpetual easement over and across the following described property:

Section 22, Township 3 South, Range 16 East: A part of Lot 38, of "WOODBOROUGH PHASE 1" as per Plat thereof recorded in Plat Book 5, Pages 114 and 114A of the Public Records of Columbia County, Florida being more particularly described as follows:

Begin at the SE corner of said Lot 38, also being the SE corner of Section 22, Township 3 South, Range 16 East, and run N 00 degrees 41 minutes 46 seconds E, along the East line of said Lot 38, 122.57 feet to the NE corner of said Lot 38; thence N 90 degrees 00 minutes 00 seconds W, along the North line of said Lot 38, 88.13 feet; thence S 10 degrees 49 minutes 09 seconds W. 124.46 feet to the South line of said Lot 38; thence S 89 degrees 50 minutes 14 seconds E, along said South line, 110.00 feet to the Point of Beginning.



District No. 1 - Ronald Williams District No. 2 - Rocky Ford District No. 3 - Bucky Nash District No. 4 - Toby Witt District No. 5 - Tim Murphy



#### BOARD OF COUNTY COMMISSIONERS • COLUMBIA COUNTY

#### **Address Assignment and Maintenance Document**

To maintain the county wide Addressing Policy you must make application for a 9-1-1 Address at the time you apply for a building permit. The established standards for addressing and posting numbers to all principal buildings, dwellings, businesses and industries are contained in Columbia County Ordinance 2001-9. The addressing system is to enable Emergency Services Agencies to locate you in an emergency, and to assist the United States Postal Service and the public in the timely and efficient provision of services to residents and businesses of Columbia County

Date/Time Issued:

9/26/2019 7:44:37 PM

Address:

1448 NW OLD MILL Dr

City:

LAKE CITY

State:

FL

Zip Code

32055

Parcel ID

02310-010

REMARKS: Address for proposed structure on parcel.

NOTICE: THIS ADDRESS WAS ISSUED BASED ON LOCATION AND ACCESS INFORMATION RECEIVED FROM THE REQUESTER. SHOULD, AT A LATER DATE, THE LOCATION AND/OR ACCESS INFORMATION BE FOUND TO BE IN ERROR OR CHANGED, THIS ADDRESS IS SUBJECT TO CHANGE.

Address Issued By:

Signed:/ Matt Crews

Columbia County GIS/911 Addressing Coordinator

COLUMBIA COUNTY
911 ADDRESSING / GIS DEPARTMENT

263 NW Lake City Ave., Lake City, FL 32055 Telephone: (386) 758-1125 Email: gis@columbiacountyfla.com



SIGNATURE:

STATE OF FLORIDA DEPARTMENT OF HEALTH ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM APPLICATION FOR CONSTRUCTION PERMIT

PERMIT NO. DATE PAID: FEE PAID: RECEIPT #: 12 170419838

APPLICATION FOR: [ ] Existing System [ ] Holding Tank [ ] Innovative [ ] Abandonment [ ] Temporary [ ] [X] New System [ ] Repair APPLICANT: Michael Wood TELEPHONE: 386-497-2311 AGENT: ROCKY FORD, A & B CONSTRUCTION MAILING ADDRESS: 546 SW Dortch Street, FT. WHITE, FL, 32038 TO BE COMPLETED BY APPLICANT OR APPLICANT'S AUTHORIZED AGENT. SYSTEMS MUST BE CONSTRUCTED BY A PERSON LICENSED PURSUANT TO 489.105(3)(m) OR 489.552, FLORIDA STATUTES. IT IS THE APPLICANT'S RESPONSIBILITY TO PROVIDE DOCUMENTATION OF THE DATE THE LOT WAS CREATED OR PLATTED (MM/DD/YY) IF REQUESTING CONSIDERATION OF STATUTORY GRANDFATHER PROVISIONS. \_\_\_\_ PROPERTY INFORMATION PLATTED: LOT: NA BLOCK: NA SUB: NA PROPERTY ID #: 27-3s-16-02310-010 ZONING: I/M OR EQUIVALENT: [ Y N ] PROPERTY SIZE: 4.95 ACRES WATER SUPPLY: [X] PRIVATE PUBLIC [ ]<=2000GPD [ ]>2000GPD DISTANCE TO SEWER: NH FT IS SEWER AVAILABLE AS PER 381.0065, FS? [ Y /(N)] PROPERTY ADDRESS: 1448 NW Old Mill Drive, Lake City DIRECTIONS TO PROPERTY: [ N RESIDENTIAL [ ] COMMERCIAL BUILDING INFORMATION Building Commercial/Institutional System Design No. of Unit Type of Area Sqft Table 1, Chapter 64E-6, FAC Bedrooms Establishment No SF Residential 2 [ ] Floor/Equipment Drains [ ] Other (Specify) DATE: 10/14/2019

DH 4015, 08/09 (Obsoletes previous editions which may not be used) Incorporated 64E-6.001, FAC

Page 1 of 4

110 1 inch = 100ft. NA Wood 10-14-19 19-0772 NW old mill OR.

# STATE OF FLORIDA DEPARTMENT OF HEALTH

	DEI MITIMENT OF FICALITY	
	APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT	
	Permit Application Number 19-8775	1
	M. Wood PART II - SITEPLAN	
Scale:	100 1 inch = 40 feet.	

Seland

Notes:	
Site Blee exhausted Revision Co	
Plan Approved	MASTER CONTRACTOR Date 10-14-19
By Chupin	County Health Department
ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALT	(ις ΓΗ DEPARTMENT

DH 4015, 08/09 (Obsoletes previous editions which may not be used) Incorporated: 64E-6.001, FAC (Stock Number: 5744-002-4015-6)

Page 2 of 4



#### COLUMBIA COUNTY BUILDING DEPARTMENT RESIDENTIAL CHECK LIST

MINIMUM PLAN REQUIREMENTS: FLORIDA BUILDING CODE RESIDENTIAL 2017 EFFECTIVE 1 JANUARY 2018 AND THE NATIONAL ELECTRICAL 2014 EFFECTIVE 1 JANUARY 2018

#### ALL REQUIREMENTS ARE SUBJECT TO CHANGE

ALL BUILDING PLANS MUST INDICATE COMPLIANCE WITH THE CURRENT FLORIDA BUILDING CODES RESIDENTIAL AND THE NATIONAL ELECTRICAL CODE. 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, FBC 1609.3.1 THRU 1609.3.3.** 

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 7/1/18** 

		GENERAL REQUI	yfla.com/BuildingandZo REMENTS: CABLE BOXES BEFORE SU		Eacl	ns to Inclu n Box shal Circled as Applicable om Drop	l be
1	Two (2) complete sets of pla	ns containing the follow	wing:				
2	All drawings must be clear, of	concise, drawn to scale,	, details that are not used shall be	e marked void			
3	Condition space (Sq. Ft.)		Total (Sq. Ft.) under roof	7100	Yes	No	NA

Designers name and signature shall be on all documents and a licensed architect or engineer, signature and official embossed seal shall be affixed to the plans and documents as per the FLORIDA BUILDING CODES RESIDENTIAL 107.1.

Site Plan information including:

4	Dimensions of lot or parcel of land	_	/	
5	Dimensions of all building set backs		/	
6	Location of all other structures (include square footage of structures) on parcel, existing or proposed		/	
1	well and septic tank and all utility easements.			
7	Provide a full legal description of property.			

#### Wind-load Engineering Summary, calculations and any details are required.

	GENERAL REQUIREMENTS:	Items	to Inclu	de-
	APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Each	Box shal	l be
		C	rcled as	
		App	licable	
8	Plans or specifications must show compliance with FBCR Chapter 3	Yes	No	NA
		Select Fro	m Drop	down
9	Basic wind speed (3-second gust), miles per hour	- V	,	
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	- /		
			,	-
12	The applicable internal pressure coefficient, Components and Cladding	_ ~ /		
	The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component,			
13	cladding materials not specifally designed by the registered design professional.	-		
Ele	evations Drawing including:			
14	All side views of the structure	- 1		
15	Roof pitch	- V		
16	Overhang dimensions and detail with attic ventilation	- V	-	
17	Location, size and height above roof of chimneys	- /		
18	Location and size of skylights with Florida Product Approval	- /		~
19	Number of stories	- V	1	
20	Building height from the established grade to the roofs highest peak	- 0		

Fl oor Pl an Including: Dimensioned area plan showing rooms, attached garage, breeze ways, covered porches, 21 deck, balconies Raised floor surfaces located more than 30 inches above the floor or grade All exterior and interior shear walls indicated Shear wall opening shown (Windows, Doors and Garage doors) 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 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. Safety glazing of glass where needed 26 Fireplaces types (gas appliance) (vented or non-vented) or wood burning with Hearth (see chapter 10 and chapter 24 of FBCR) 27 Show stairs with dimensions (width, tread and riser and total run) details of guardrails, Handrails 28 Identify accessibility of bathroom (see FBCR SECTION 320) 29 All materials placed within opening or onto/into exterior walls, soffits or roofs shall have Florida product approval number and mfg. installation information submitted with the plans (see Florida product approval form) GENERAL REQUIREMENTS: Items to Include-APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL Each Box shall be Circled as Applicable FBCR 403: Foundation Plans Select From Drop down 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 31 32 Any special support required by soil analysis such as piling. 33 Assumed load-bearing valve of soil /500 Pound Per Square Foot 34 Location of horizontal and vertical steel, for foundation or walls (include # size and type) 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 FBCR 506: CONCRETE SLAB ON GRADE 35 Show Varor retarder (6mil. Polyethylene with 'pints la con 6 inches and sealed) 36 Show control j oints, synthetic fiber reinforcement or welded fire fabric reinforcement and Sports **FBCR 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 FBCR 606: Masonry Walls and Stem walls (load bearing & shear Walls)

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

Show all materials making up walls, wall height, and Block size, mortar typeShow all Lintel sizes, type, spans and tie-beam sizes and spacing of reinforcement

	por Framing System: First and/or second story  Floor truss package shall including layout and details, signed and sealed by Florida Registered			
40	Professional Engineer	- L		
40	Show conventional floor joist type, size, span, spacing and attachment to load bearing walls,	_		<del> </del>
41		-		1/
41	stem walls and/or priers	<del>-  </del> -		
42	Girder type, size and spacing to load bearing walls, stem wall and/or priers			
43	Attachment of joist to girder			
44	Wind load requirements where applicable	- V		
45	Show required under-floor crawl space			
46	Show required amount of ventilation opening for under-floor spaces	-		
47	Show required covering of ventilation opening	-		
48	Show the required access opening to access to under-floor spaces	-		-
	Show the sub-floor structural panel sheathing type, thickness and fastener schedule on the edges &			1
49	intermediate of the areas structural panel sheathing	-		ļ
50	Show Draftstopping, Fire caulking and Fire blocking	-		
51	Show fireproofing requirements for garages attached to living spaces, per FBCR section 302.6	-		
52	Provide live and dead load rating of floor framing systems (psf).	-		
FB	CR CHAPTER 6 WOOD WALL FRAMING CONSTRUCTION	,		
		Items	to Inclu	de-
	GENERAL REQUIREMENTS:	Each B	ox shal	l be
	APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Cin	rcled as	
		Ap	plicable	
	S	elect fron	n Droi	o do
53	Stud type, grade, size, wall height and oc spacing for all load bearing or shear walls	- 0		
54	Fastener schedule for structural members per table FBC-R602.3.2 are to be shown			
34				<del>                                     </del>
	Show wood structural panel's sheathing attachment to studs, joist, trusses, rafters and structural			
55	members, showing fastener schedule attachment on the edges & intermediate of the areas structural	- /		
	panel sheathing			<u> </u>
	Show all required connectors with a max uplift rating and required number of connectors and			
<b>56</b>	oc spacing for continuous connection of structural walls to foundation and roof trusses or	- 🗸		ļ
	rafter systems			
	Show sizes, type, span lengths and required number of support jack studs, king studs for	_ /		
57	shear wall opening and girder or header per FBC-R602.7.			
58	Indicate where pressure treated wood will be placed	- /		
	Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural	/		
59	panel sheathing edges & intermediate areas	-		
60	A detail showing gable truss bracing, wall balloon framing details or/ and wall hinge bracing detail	- /		
00	11 dotain showing gazio it and bracong, wan outlook it animing actuals on and well make a status			
F	BCR :ROOF SYSTEMS:			
61	Truss design drawing shall meet section FBC-R 802.10. I Wood trusses			
62	Include a layout and truss details, signed and sealed by Florida Professional Engineer	- 6		-
63	Show types of connector's assemblies' and resistance uplift rating for all trusses and rafters	- V		ļ
64	Show gable ends with rake beams showing reinforcement or gable truss and wall bracing details			
65	Provide dead load rating of trusses			
F	BCR 802:Conventional Roof Framing Layout			
66	Rafter and ridge beams sizes, span, species and spacing	-		1
67	Connectors to wall assemblies' include assemblies' resistance to uplift rating	-		
68	Valley framing and support details	-		V
<del>69</del>	Provide dead load rating of rafter system	-		V
ソ	I TO A INC. OCAN TOWN TATION SYSTEM		-	
ri	2CD on 2 DOOF SHEATHING			
-	BCR 803 ROOF SHEATHING		·	
70	Include all materials which will make up the roof decking, identification of structural panel	- V		
, 0				E .
71	sheathing, grade, thickness  Show fastener Size and schedule for structural panel sheathing on the edges & intermediate areas			-

**ROOF ASSEMBLIES FRC Chapter 9** 

72	Include all materials which will make up the roof assembles covering	-			
	Submit Florida Product Approval numbers for each component of the roof assembles covering	-	V		

#### FBCR Chapter 11 Energy Efficiency Code for Residential Building

Residential construction shall comply with this code by using the following compliance methods in the FBCR Chapter 11 Residential buildings compliance methods. Two of the required forms are to be submitted, N1100.1.1.1 As an alternative to the computerized Compliance Method A, the Alternate Residential Point System Method hand calculation, Alternate Form 600A, 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 Inclu Box shal rcled as	l be
				plicable	
L		S	elect from	<u> </u>	
	74		- 1/		
t		Attic space	- /		
Ì		Exterior wall cavity	- /		
Ì	77	Crawl space	-		
	HV	AC information			
1	78	Submit two copies of a Manual J sizing equipment or equivalent computation study	- /		
	79	Exhaust fans shown in bathrooms Mechanical exhaust capacity of 50 cfm intermittent or 20 cfm continuous required	- /		
t	80	Show clothes dryer route and total run of exhaust duct	- /		
1			-		
		mbing Fixture layout shown			
ſ		All fixtures waste water lines shall be shown on the foundationplan	- V/		
	82	Show the location of water heater	- /		
5	<u>Pri</u>	vate Potable Water			
	83	Pump motor horse power	-		
ſ	84	Reservoir pressure tank gallon capacity	-		
	85	Rating of cycle stop valve if used	-		
	Ele	ectrical layout shown including			
r	86	Show Switches, receptacles outlets, lighting fixtures and Ceiling fans	- 1		
ľ	87	Show all 120-volt, single phase, 15- and 20-ampere branch circuits outlets required to be protected			
		by Ground-Fault Circuit Interrupter (GFCI) Article 210.8 A	- /		
	88	Show the location of smoke detectors & Carbon monoxide detectors	- /		
	89	Show service panel, sub-panel, location(s) and total ampere ratings			
	90	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.	-		
		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			
L	91	Appliances and HVAC equipment and disconnects	- V		
	92	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 a listed Combination arc-fault circuit interrupter, Protection device.	_		

#### **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 performed.

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

**[]	TEMS 95, 96, & 98 Are Required After APPROVAL from the ZONING DEPT.**	elect from	Drop	dow
93	<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.	- ~		
94	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. www.columbiacountyfla.com			
95	Environmental Health Permit or Sewer Tap Approval A copy of a approved Columbia County Environmental Health (386) 758-1058	- 1		
96	City of Lake City A City Water and/or Sewer letter. Call 386-752-2031	-	_	V
97	Toilet facilities shall be provided for all construction sites	~		
98	<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.	-		1
9	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 (Municode.com)			V
00		-		V
01	A Flood development permit is also required for AE, Floodway & AH. Development permit cost is \$50.00			V
02	<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.	-		V
03	<b>911 Address:</b> An application for a 911 address must be applied for and received through the Columbia County Emergency Management Office of 911 Addressing Department (386) 758-1125.	- /		

Ordinance Sec. 90-75. - Construction debris. (e) It shall be unlawful for any person to dispose of or discard solid waste, including construction or demolition debris at any place within the county other than on an authorized disposal site or at the county's solid waste facilities. The temporary storage, not to exceed seven days of solid waste (excluding construction and demolition debris) on the premises where generated or vegetative trash pending disposition as authorized by law or ordinance, shall not be deemed a violation of this section. The temporary storage of construction and demolition debris on the premises where generated or vegetative trash pending disposition as authorized by law or ordinance shall not be deemed in violation of this section; provided, however, such construction and demolition debris must be disposed of in accordance with this article prior to the county's issuance of a certificate of occupancy for the premises. The burning of lumber from a construction or demolition project or vegetative trash when done so with legal and proper permits from the authorized agencies and in accordance with such agencies' rules and regulations, shall not be deemed a violation of this section. No person shall bury, throw, place, or deposit, or cause to be buried, thrown, placed, or deposited, any solid waste, special waste, or debris of any kind into or on any of the public streets, road right-of-way, highways, bridges, alleys, lanes, thoroughfares, waters, canals, or vacant lots or lands within the county. No person shall bury any vegetative trash on any of the public streets, road right-of-way, highways, bridges, lanes, thoroughfares, waters, canals, or lots less than ten acres in size within the county.

#### **Disclosure Statement for Owner Builders:**

If you as the Applicant will be acting as your own contractor or owner/builder under section 489.103(7) Florida Statutes, you must submit the required notarized Owner Builder Disclosure Statement form.

\*\*This form can be printed from the Columbia County Website on the Building and Zoning page under Documents. Web address is - http://www.columbiacountyfla.com/BuildingandZoning.asp

#### 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 MASONITE & Dutsway Fibershy INSWING FL 8228-R7 B. SLIDING C. SECTIONAL/ROLL UP D. OTHER 2. WINDOWS A. SINGLE/DOUBLE HUNG MAGNOLA 400 Single Hung VIAMI PL 16475-R3 B. HORIZONTAL SLIDER C. CASEMENT D. FIXED E. MULLION F. SKYLIGHTS G. OTHER 3. PANEL WALL A. SIDING Allura of Plycem Coment BOORD Lap SIDING Vinyl /Prc & Aluminum Soffit **B. SOFFITS** KAYCAN C. STOREFRONTS D. GLASS BLOCK E. OTHER 4. ROOFING PRODUCTS A. ASPHALT SHINGLES Certanteed ASPHOLT Shingles FL-5444 **B. NON-STRUCTURAL METAL** C. ROOFING TILES D. SINGLE PLY ROOF E. OTHER 5. STRUCTURAL COMPONENTS A. WOOD CONNECTORS Simpson LSTA / MSTA / SPH4 FL 13872 -RS **B. WOOD ANCHORS** C. TRUSS PLATES D. INSULATION FORMS E. LINTELS F. OTHERS 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.

630	9-27-19	
Contractor OR Agent Signature	Date	NOTES:

FORM R405-2017

### FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Wood Residence **Builder Name:** Street: NW Old Mill Road Permit Office: Columbia County City, State, Zip: Lake City, FL, 32055 Permit Number: Owner: Mike & Angela Wood Jurisdiction: Design Location: FL, Gainesville County: Columbia (Florida Climate Zone 2) 1. New construction or existing New (From Plans) 9. Wall Types (3159.8 sqft.) Insulation Area a. Frame - Wood, Exterior R=13.0 2829.00 ft<sup>2</sup> 2. Single family or multiple family Single-family b. Frame - Wood, Exterior R=19.0 330.75 ft<sup>2</sup> 3. Number of units, if multiple family c. N/A R= ft2 d. N/A 4. Number of Bedrooms R= ft2 10. Ceiling Types (4467.0 sqft.) Insulation Area 5. Is this a worst case? No a. Under Attic (Vented) R=38.0 4467.00 ft<sup>2</sup> 6. Conditioned floor area above grade (ft²) 4061 b. N/A ft2 R= c. N/A R= ft² Conditioned floor area below grade (ft²) n 11. Ducts ft² 7. Windows (773.0 sqft.) Description Area a. Sup: Attic, Ret: Attic, AH: Main 1015.2 Dbl, U=0.36 a. U-Factor: 773.00 ft<sup>2</sup> SHGC: SHGC=0.25 12. Cooling systems kBtu/hr Efficiency b. U-Factor: N/A ft2 COUNTY BU a. Central Unit 43.9 SEER:18.00 SHGC: c. U-Factor: N/A ft² SHGC: 13. Heating systems kBtu/hr Efficiency d. U-Factor: N/A ft² a. Electric Heat Pump 58.7 HSPF:8.20 SHGC: 14. Hot water systems of a language of the lan Area Weighted Average Overhang Depth: 10.864 ft. Area Weighted Average SHGC: 0.250 Cap: 100 gallons 8. Floor Types (4061.0 sqft.) Insulation Area EF: 0.920 a. Slab-On-Grade Edge Insulation R=0.0 4061.00 ft<sup>2</sup> b. Conservation features b. N/A R= ft2 None c. N/A R= 15. Credits CV, Pstat Total Proposed Modified Loads: 91.93 **PASS** Glass/Floor Area: 0.190 Total Baseline Loads: 93.48

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

PREPARED BY: DATE:

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

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

BUILDING OFFICIAL: DATE:



- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.3.2.1.
- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires an envelope leakage test report with envelope leakage no greater than 5.00 ACH50 (R402.4.1.2).

FORM R405-2017

**INPUT SUMMARY CHECKLIST REPORT** 

_				PROJ	ECT							
Title: Building T Owner Na # of Units: Builder Na Permit Off Jurisdictio Family Typ New/Exist Comments	me: Mike & Angela 1 ime: ice: Columbia Cour n: pe: Single-family ing: New (From Pla	Wood	Bedrooms Condition Total Stori Worst Cas Rotate An Cross Ver Whole Ho	ed Area: les: se: gle: ntilation:	3 4061 1 No 0 Yes No		Lot# Block Plate Stree Cour	k/Subdiv 3ook: et:	vision: NV Co	V Old Mill olumbia ke City , , 3205	Road	
		<del> </del>	•	CLIMA	TE						_	
<b>√</b>	Design Location	TMY Site		97	esign Temp .5 % 2.5 %	Winte		ner De	Heating gree Days			/ Temp
	FL, Gainesville	FL_GAINESVILLI	E_REGI		32 92	70	75		1305.5	51	М	edium
	-			BLOC	KS ———				<u></u>			
Number	Name	Area	Volume									
1	Block1	4061	36549									
				SPAC	ES							
Number	Name	Area	Volume	Kitchen	Occupants	Bedroo	oms I	nfil ID	Finished	Cool	ed	Heat
1	Main	4061	36549	Yes	8	3	1	l	Yes	Yes		Yes
				FLOO	RS							
v	# Floor Type	Space	e Per	imeter	R-Value	Area			•	Tile Woo	od Ca	rpet
	1 Slab-On-Grade Edge	Insulation N	/lain 360	.6 ft	0	4061 ft²				0 0		1
				ROO	F							
<b>√</b>	# Type	Materials	Roof Area	Gabio Area		Rad Barr	Solar Absor.	SA Tested	Emitt i	Emitt Tested	Deck Insul.	Pitc (deg
	1 Hip	Compositionshing	gles 4881 ft <sup>2</sup>	0 ft²	Medium	Y	0.96	No	0.9	No	0	33.
				ATTI	С							
<b>√</b>	# Type	Venti	ilation	Vent Rati	o (1 in)	Area	RBS	IR	RCC			
	1 Full attic	Ver	nted	300	) 4	061 ft²	Y		N			
				CEILI	NG							
$\sqrt{}$	# Ceiling Type		Space	R-Value	e Ins Ty	ре	Area	Frai	ming Frac	Truss '	Гуре	
	1 Under Attic (Ve	nted)	Main	38	Double B	att	4467 ft²		0.11	Woo	nd	

		D 40	- 0	147
FU	KM.	R40	5-21	17 /

### **INPUT SUMMARY CHECKLIST REPORT**

. /	<del></del>	Adja	cent		<u> </u>	Cavity	Wid	th.	Height		Shoothin	Framina	Colo-	Delair
V #	_Ornt_	To_	Wal	I_Type	Space	R-Value	Ft.	ln	Ft_In_	Area	Sheathing R-Value	Fraction	Solar —Absor	Below Grade
_ 1	S	Exteri		ame - Wood	Main	13	16		9	144.0 ft²		0.23	0.75	0
2	E	Exterio		ame - Wood	Main	13	10	8	9	96.0 ft²		0.23	0.75	0
_ 3	S	Exterio		ame - Wood	Main	13	11		9	99.0 ft²		0.23	0.75	0
4	S	Exterio		ame - Wood	Main	19	31	6	10 6	330.8 ft²		0.23	0.75	0
5	W	Exterio		ame - Wood	Main	13	5		9	45.0 ft²		0.23	0.75	0
6	S	Exterio		ame - Wood	Main	13	22	8	9	204.0 ft <sup>2</sup>		0.23	0.75	0
— <u>′</u>	E	Exterio		ame - Wood	Main	13	48		9	432.0 ft <sup>2</sup>		0.23	0.75	0
8	N	Exterio		ime - Wood	Main	13	22	8	9	204.0 ft <sup>2</sup>		0.23	0.75	0
_ <sup>9</sup>	W	Exterio		ime - Wood	Main	13	5	4	9	48.0 ft²		0.23	0.75	0
10	N	Exterio		ime - Wood	Main	13	22	8	9	204.0 ft <sup>2</sup>		0.23	0.75	0
11	Ε	Exterio		ime - Wood	Main	13	11	0	9	99.0 ft²		0.23	0.75	0
12	N	Exterio		ime - Wood	Main	13	15	4	9	138.0 ft²		0.23	0.75	0
13	E	Exterio		ime - Wood	Main	13	28	4	9	255.0 ft <sup>2</sup>		0.23	0.75	0
14	N	Exterio		ime - Wood	Main	13	12		9	114.0 ft²		0.23	0.75	0
15 	W	Exterio	r Fra	me - Wood	Main	13	83		9	747.0 ft²		0.23	0.75	0
						DO	ORS							
$\sqrt{}$	#	On	nt	Door Type	Space			Storms	U-Val	ue F	Width t In	Height Ft I	n	Area
												1 ( )	111	
	1	W		Insulated	Main			None	.46	3	}	6	8 :	20 ft²
	1	W					oows			3	3	6	8	20 ft²
	1				Main Prientation sho							6	8	20 ft²
		Wali Dmt ID		0			ntered, Pr	oposed		Ove	rhang			
		Wali		0	rientationsho	wn is the e	ntered, Pr		orientation	Ove	rhang Separation	Int Sha	de S	Screenin
	# (	Wali Ornt ID	Frame	Panes	rientation sho	wn is the e	SHGC	oposed Imp	orientation Area	Ove Depth	rhang	Int Sha None	de s	Screening None
✓ ✓	# (	Wall Ornt ID S 1	Frame Vinyl	Panes Low-E Double	NFRC Yes	U-Factor 0.36	SHGC 0.25	oposed Imp N	orientation Area 15.0 ft²	Ove Depth 1 ft 0 in 9 ft 6 in	rhang Separation 5 ft 0 in	Int Sha None	de (	Screening None None
\/	# (1 2	Wali Omt ID S 1 S 4	Frame Vinyl Vinyl	Panes Low-E Double Low-E Double	NFRC Yes Yes	U-Factor 0.36 0.36	SHGC 0.25 0.25	oposed Imp N N	Area 15.0 ft² 72.0 ft²	Ove Depth 1 ft 0 in	rhang Separation 5 ft 0 in 0 ft 6 in	Int Sha None	de :	Screenin None None None
/ 	# (1 2 3	Wall   Drnt   ID   S   1   S   4   S   4	Frame Vinyl Vinyl Vinyl Vinyl	Panes  Low-E Double  Low-E Double  Low-E Double	NFRC Yes Yes Yes	U-Factor 0.36 0.36 0.36 0.36	SHGC 0.25 0.25 0.25 0.25	Imp N N N	orientation  Area  15.0 ft²  72.0 ft²  48.0 ft²  15.0 ft²	Ove Depth 1 ft 0 in 9 ft 6 in 9 ft 6 in 1 ft 6 in	rhang Separation 5 ft 0 in 0 ft 6 in 0 ft 6 in 0 ft 6 in	Int Sha None None None	de (	Screenin None None None None
/	# (1 2 3	Wall   Drnt   ID   S	Frame Vinyl Vinyl Vinyl Vinyl	Panes Low-E Double Low-E Double Low-E Double Low-E Double	NFRC Yes Yes Yes Yes Yes Yes	U-Factor 0.36 0.36 0.36	SHGC 0.25 0.25 0.25	oposed Imp N N	orientation  Area  15.0 ft²  72.0 ft²  48.0 ft²	Ove Depth 1 ft 0 in 9 ft 6 in	rhang Separation 5 ft 0 in 0 ft 6 in 0 ft 6 in 0 ft 6 in 1 ft 0 in	Int Sha None None None None	de :	Screenin None None None None
/	# 0 1 2 3 4 5	Wall   Drnt   ID   S   1   S   4   S   6   S   3	Frame Vinyl Vinyl Vinyl Vinyl Vinyl	Panes  Low-E Double  Low-E Double  Low-E Double  Low-E Double  Low-E Double	NFRC Yes Yes Yes Yes Yes Yes Yes Yes	U-Factor 0.36 0.36 0.36 0.36 0.36 0.36	SHGC 0.25 0.25 0.25 0.25 0.25 0.25	Imp N N N N	orientation  Area  15.0 ft²  72.0 ft²  48.0 ft²  15.0 ft²  15.0 ft²	Ove Depth 1 ft 0 in 9 ft 6 in 1 ft 6 in 1 ft 6 in	rhang Separation 5 ft 0 in 0 ft 6 in 0 ft 6 in 1 ft 0 in 0 ft 3 in	Int Sha None None None None None	de	Screenin None None None None None
/	# (1 1 2 3 4 5 6	Wall   Drnt   ID   S   1   S   4   S   6   S   3   S   6	Frame Vinyl Vinyl Vinyl Vinyl Vinyl Vinyl Vinyl	Panes  Low-E Double  Low-E Double  Low-E Double  Low-E Double  Low-E Double	NFRC Yes	U-Factor 0.36 0.36 0.36 0.36 0.36 0.36 0.36	SHGC 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	Imp N N N N N N N N N N N N N N N N N N N	Area 15.0 ft² 72.0 ft² 48.0 ft² 15.0 ft² 15.0 ft² 3.0 ft² 6.0 ft²	Ove Depth 1 ft 0 in 9 ft 6 in 1 ft 6 in 1 ft 6 in 1 ft 6 in	rhang Separation 5 ft 0 in 0 ft 6 in 0 ft 6 in 1 ft 0 in 0 ft 3 in 3 ft 0 in	Int Sha None None None None None	de (	Screenin None None None None None
/	# 0 1 2 3 4 5 6 7 8	Wall Drnt ID S 1 S 4 S 4 S 6 S 3 S 6 E 7	Frame Vinyl Vinyl Vinyl Vinyl Vinyl Vinyl Vinyl Vinyl	Panes  Low-E Double  Low-E Double  Low-E Double  Low-E Double  Low-E Double  Low-E Double	NFRC Yes	U-Factor 0.36 0.36 0.36 0.36 0.36 0.36 0.36 0.36	SHGC 0.25 0.25 0.25 0.25 0.25 0.25	oposed Imp N N N N N N N N N N N N N N N N N N N	orientation  Area  15.0 ft²  72.0 ft²  48.0 ft²  15.0 ft²  15.0 ft²  3.0 ft²  6.0 ft²  30.0 ft²	Ove Depth 1 ft 0 in 9 ft 6 in 1 ft 6 in 1 ft 6 in 1 ft 6 in 1 ft 6 in	rhang Separation 5 ft 0 in 0 ft 6 in 0 ft 6 in 1 ft 0 in 0 ft 3 in 3 ft 0 in 6 ft 0 in	Int Sha None None None None None None	de	Screenin None None None None None None
/ / 	# 0 1 2 3 4 5 6 7 8	Wall Drnt ID S 1 S 4 S 6 S 3 S 6 E 7 E 7	Frame Vinyl	Panes  Low-E Double	NFRC Yes	U-Factor 0.36 0.36 0.36 0.36 0.36 0.36 0.36 0.36	SHGC 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	Imp N N N N N N N N N N N N N N N N N N N	orientation  Area  15.0 ft²  72.0 ft²  48.0 ft²  15.0 ft²  3.0 ft²  3.0 ft²  30.0 ft²  3.0 ft²	Ove Depth 1 ft 0 in 9 ft 6 in 1 ft 6 in	rhang Separation 5 ft 0 in 0 ft 6 in 0 ft 6 in 1 ft 0 in 0 ft 3 in 3 ft 0 in 6 ft 0 in	Int Sha None None None None None None None None	de	Screenin None None None None None None None Non
	# 0 1 2 3 4 5 6 7 8 9 10	Wall Drnt ID S 1 S 4 S 6 S 3 S 6 E 7 E 7 N 8	Frame Vinyl	Panes  Low-E Double	NFRC Yes	U-Factor 0.36 0.36 0.36 0.36 0.36 0.36 0.36 0.36	SHGC 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	oposed Imp N N N N N N N N N N N N N N N N N N N	Area 15.0 ft² 72.0 ft² 48.0 ft² 15.0 ft² 15.0 ft² 3.0 ft² 3.0 ft² 3.0 ft² 3.0 ft² 24.0 ft²	Ove Depth 1 ft 0 in 9 ft 6 in 1 ft 6 in	rhang Separation 5 ft 0 in 0 ft 6 in 0 ft 6 in 1 ft 0 in 3 ft 0 in 6 ft 0 in 1 ft 0 in	Int Sha None None None None None None None None	de	Screenin None None None None None None None Non
	# 0 1 2 3 4 5 6 7 8 9 10 11	Wall S 1 S 4 S 6 S 3 S 6 E 7 N 8 N 8	Frame Vinyl	Panes  Low-E Double	NFRC Yes	U-Factor 0.36 0.36 0.36 0.36 0.36 0.36 0.36 0.36	SHGC 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	oposed Imp N N N N N N N N N N N N N N N N N N N	orientation  Area  15.0 ft²  72.0 ft²  48.0 ft²  15.0 ft²  15.0 ft²  3.0 ft²  3.0 ft²  3.0 ft²  24.0 ft²  24.0 ft²  36.0 ft²	Ove Depth 1 ft 0 in 9 ft 6 in 1 ft 6 in 15 ft 6 in	rhang Separation 5 ft 0 in 0 ft 6 in 0 ft 6 in 1 ft 0 in 3 ft 0 in 6 ft 0 in 1 ft 0 in 1 ft 0 in	Int Sha None None None None None None None None	de	Screenin None None None None None None None Non
	# (1 2 3 4 5 6 7 8 9 10 11 12	Wall Drnt ID S 1 S 4 S 6 S 3 S 6 E 7 E 7 N 8 N 8	Frame Vinyl	Panes  Low-E Double	NFRC Yes	U-Factor 0.36 0.36 0.36 0.36 0.36 0.36 0.36 0.36	SHGC 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	oposed Imp N N N N N N N N N N N N N N N N N N N	orientation  Area  15.0 ft²  72.0 ft²  48.0 ft²  15.0 ft²  15.0 ft²  3.0 ft²  3.0 ft²  3.0 ft²  24.0 ft²  24.0 ft²  24.0 ft²	Ove Depth 1 ft 0 in 9 ft 6 in 1 ft 6 in 15 ft 6 in 15 ft 6 in	rhang Separation 5 ft 0 in 0 ft 6 in 0 ft 6 in 1 ft 0 in 0 ft 3 in 3 ft 0 in 6 ft 0 in 1 ft 0 in 1 ft 0 in 1 ft 0 in	Int Sha None None None None None None None None	de	Screenin None None None None None None None Non
<del></del>	# 0 1 2 3 4 5 6 7 8 9 10 11 12 13	Wall Drnt ID S 1 S 4 S 6 S 3 S 6 E 7 R 7 N 8 N 8 W 9	Frame Vinyl	Panes  Low-E Double	NFRC Yes	U-Factor 0.36 0.36 0.36 0.36 0.36 0.36 0.36 0.36	SHGC 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	oposed Imp N N N N N N N N N N N N N N N N N N N	orientation  Area  15.0 ft²  72.0 ft²  48.0 ft²  15.0 ft²  15.0 ft²  3.0 ft²  3.0 ft²  3.0 ft²  24.0 ft²  24.0 ft²  24.0 ft²  24.0 ft²  128.0 ft²	Ove Depth 1 ft 0 in 9 ft 6 in 1 ft 6 in 15 ft 6 in 15 ft 6 in 15 ft 6 in	rhang Separation 5 ft 0 in 0 ft 6 in 0 ft 6 in 1 ft 0 in 3 ft 0 in 6 ft 0 in 1 ft 0 in	Int Sha None None None None None None None None	de	Screenin None None None None None None None Non
	# (1 2 3 4 5 6 7 8 9 10 11 12 13 14	Wall Drnt ID S 1 S 4 S 6 S 3 S 6 E 7 E 7 N 8 N 8 N 8 W 9 N 10	Frame Vinyl Metal	Panes  Low-E Double	NFRC Yes	U-Factor 0.36 0.36 0.36 0.36 0.36 0.36 0.36 0.36	SHGC 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	oposed Imp N N N N N N N N N N N N N N N N N N N	orientation  Area  15.0 ft²  72.0 ft²  48.0 ft²  15.0 ft²  3.0 ft²  3.0 ft²  3.0 ft²  24.0 ft²  24.0 ft²  24.0 ft²  128.0 ft²  84.0 ft²	Ove Depth 1 ft 0 in 9 ft 6 in 9 ft 6 in 1 ft 6 in 1 ft 6 in 1 ft 6 in 15 ft 6 in 15 ft 6 in 15 ft 6 in 10 ft 0 in	rhang Separation 5 ft 0 in 0 ft 6 in 0 ft 6 in 1 ft 0 in 0 ft 3 in 3 ft 0 in 6 ft 0 in 1 ft 0 in	Int Sha  None None None None None None None Non	de	Screenin None None None None None None None Non
	# 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14	Wali Drnt ID S 1 S 4 S 6 S 3 S 6 E 7 N 8 N 8 W 9 N 10 E 11 N 12	Frame Vinyl Metal	Panes  Low-E Double	NFRC Yes	U-Factor 0.36 0.36 0.36 0.36 0.36 0.36 0.36 0.36	SHGC 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	oposed Imp NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN	orientation  Area  15.0 ft²  72.0 ft²  48.0 ft²  15.0 ft²  3.0 ft²  3.0 ft²  3.0 ft²  24.0 ft²  24.0 ft²  24.0 ft²  48.0 ft²  48.0 ft²  48.0 ft²  48.0 ft²	Ove Depth 1 ft 0 in 9 ft 6 in 1 ft 6 in 1 ft 6 in 1 ft 6 in 1 ft 6 in 15 ft 6 in 15 ft 6 in 15 ft 6 in 10 ft 0 in	rhang Separation 5 ft 0 in 0 ft 6 in 0 ft 6 in 1 ft 0 in 0 ft 3 in 3 ft 0 in 6 ft 0 in 1 ft 0 in	Int Sha None None None None None None None None	de	Screenin None None None None None None None Non
	# 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Wali Drnt ID S 1 S 4 S 6 S 3 S 6 E 7 N 8 N 8 W 9 N 10 E 11 N 12	Frame Vinyl	Panes  Low-E Double	NFRC Yes	U-Factor 0.36 0.36 0.36 0.36 0.36 0.36 0.36 0.36	SHGC 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	oposed Imp N N N N N N N N N N N N N N N N N N N	orientation  Area  15.0 ft²  72.0 ft²  48.0 ft²  15.0 ft²  3.0 ft²  3.0 ft²  3.0 ft²  24.0 ft²  24.0 ft²  24.0 ft²  128.0 ft²  84.0 ft²	Ove Depth 1 ft 0 in 9 ft 6 in 9 ft 6 in 1 ft 6 in 1 ft 6 in 1 ft 6 in 15 ft 6 in 15 ft 6 in 15 ft 6 in 10 ft 0 in	rhang Separation  5 ft 0 in 0 ft 6 in 0 ft 6 in 1 ft 0 in 0 ft 3 in 3 ft 0 in 6 ft 0 in 1 ft 0 in	Int Sha  None None None None None None None Non	de	Screenin None None None None None None None Non

					INFI	LTRATIO	N					_		
# S	cope	Method		SLA	CFM 50	ELA	EqL	.A .	ACH	ACH	50			
1 Who	lehouse	Proposed A	CH(50)	.000286	3045.8	167.21	314.	46 .	1128	5				
				<del>.</del>	HEATI	NG SYST	EM							
$\vee$	# :	System Type		Subtype			Efficiency	Ca	pacity			Block	Du	ıcts
	1	Electric Heat Pu	mp/	None		1	HSPF:8.2	58.7	kBtu/hr			1	sys	s#1
		·			COOLI	NG SYS1	EM							
$\sqrt{}$	# :	System Type		Subtype		E	fficiency	Capacity	Air I	low Sh	HR.	Block	Du	ıcts
	1 (	Central Unit/		None		S	EER: 18 4	3.86 kBtu/	nr 1320	cfm 0	.7	1	sys	s#1
					HOT WA	TER SYS	STEM							
V	#	System Type	SubType	Location	EF	Сар		Use	SetPnt		Cons	ervatio	n	
	1	Electric	None	Main	0.92	100 g	al 4	0 gal	120 deg		N	one		
				SOL	AR HOT	WATER	SYSTEM	И					<u> </u>	
$\checkmark$	FSEC Cert #	Company N	ame		System M	lodel#	Call	ector Model		ollector Area	Storage		FEF	
	None	None			- Cystell IV			ector Moder	π .		Volume			
						UCTS								
$\checkmark$	#	Sup Location R	ply -Value Area	Ref	turn Area	Leakage	еТуре	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVA Heat	
	1	Attic	6 1015.25	Attic	203.05 f	Default L	eakage	Main	(Default)	c(Default) c			1	1
-				3.62	TEMP	ERATUR	ES							
Program	nableThe	rmostat: Y		C	eiling Fans:	<sup>-</sup>		-						
riografi														

FORM R405-2017	INPUT SUMMARY CHECKLIST REPORT
----------------	--------------------------------

Thermostat Schedule:	HERS 2006 Reference Hours												
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	80	80	80	80
	PM	80	80	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	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66
Heating (WEH)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66

#### MASS

Mass Type	Area	Thickness	Furniture Fraction	Space	
Default(8 lbs/sq.ft.	0 ft²	0 ft	0.3	Main	

### **ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD**

#### **ESTIMATED ENERGY PERFORMANCE INDEX\* = 98**

The lower the Energy Performance Index, the more efficient the home.

1. New home or, addition	1. New (From Plans)	12. Ducts, location & insulation level
2. Cincle femily on model to female.	0.01.1.5.11	a) Supply ducts R 6.0
Single-family or multiple-family	2. Single-family	b) Return ducts R 6.0
3. No. of units (if multiple-family)	3 1	c) AHU location Main
•		
4. Number of bedrooms	43	13. Cooling system: Capacity 43.9
5. Is this a worst case? (yes/no)	5. No	a) Split system SEER b) Single package SEER
o. Io tillo a World Gado. (yearlio)	o. <u>140</u>	c) Ground/water source SEER/COP
6. Conditioned floor area (sq. ft.)	6 4061	d) Room unit/PTAC EER
	<del></del>	e) Other <u>18.0</u>
7. Windows, type and area		8
a) U-factor:(weighted average)	7a. <u>0.360</u>	
b) Solar Heat Gain Coefficient (SHGC)	7b. <u>0.250</u>	14. Heating system: Capacity 58.7
c) Area	7c. <u>773.0</u>	a) Split system heat pump HSPF
		b) Single package heat pump HSPF
8. Skylights		c) Electric resistance COP
a) U-factor:(weighted average)	8a <u>NA</u> _	d) Gas furnace, natural gas AFUE
b) Solar Heat Gain Coefficient (SHGC)	8bNA	e) Gas furnace, LPG AFUE
O. Eleanting insulation totals		f) Other 8.20
Floor type, insulation level:     a) Slab-on-grade (R-value)	0-	
b) Wood, raised (R-value)	9a0.0_	AE Materia de estir el estado
c) Concrete, raised (R-value)	9b	15. Water heating system
c) Concrete, raised (N-value)	9c	a) Electric resistance EF 0.92 b) Gas fired, natural gas EF
10. Wall type and insulation:		c) Gas fired, LPG EF
A. Exterior:		d) Solar system with tank
Wood frame (Insulation R-value)	10A1. varies	e) Dedicated heat pump with tank EF
Masonry (Insulation R-value)	10A2	f) Heat recovery unit HeatRec%
B. Adjacent:	10712	g) Other
Wood frame (Insulation R-value)	10B1	g) Other
2. Masonry (Insulation R-value)	10B2.	
, (		16. HVAC credits claimed (Performance Method)
11. Ceiling type and insulation level		a) Ceiling fans
a) Under attic	11a. 38.0	b) Cross ventilation Yes
b) Single assembly	11b	c) Whole house fan No
c) Knee walls/skylight walls	11c	d) Multizone cooling credit
d) Radiant barrier installed	11d. <u>Yes</u>	e) Multizone heating credit
		f) Programmable thermostat Yes
*Label required by Section R303.1.3 of the F	lorida Building Code, Ene	ergy Conservation, if not DEFAULT.
I sould that this house has a soull of other	FIGURE OF F	
recruity that this name has complied with the	Florida Building Code, Er	nergy Conservation, through the above energy
saving features which will be installed (or exc display card will be completed based on install	ceeded) in this nome beto alled code compliant featu	re final inspection. Otherwise, a new EPL
and the post of th	anos code compliant reatu	
1	-3	7
Builder Signature:		Date: 9-27-15
Address of New Home: NW Old Mill Road		City/FL Zip: Lake City, FL 32055

# **Residential System Sizing Calculation**

**Summary** 

Mike & Angela Wood NW Old Mill Road Lake City, FL 32055 Project Title: Wood Residence

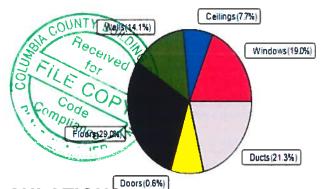
6/5/2019

Location for weather data: Gainesville, FL - Defaults: Latitude(29.7) Altitude(152 ft.) Temp Range(M)									
Humidity data: Interior RH (50%	6) Outdooi	r wet bulb (?	77F) Humidity difference(51gr.)						
Winter design temperature(TMY3	399%) 30	F	Summer design temperature(TMY	<b>'</b> 3 99%) 94	F				
Winter setpoint	70	F	Summer setpoint	75	F				
Winter temperature difference	40	F	Summer temperature difference	19	F				
Total heating load calculation	58705	Btuh	Total cooling load calculation	43858	Btuh				
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh				
Total (Electric Heat Pump)	100.0	58705	Sensible (SHR = 0.70)	84.4	30701				
Heat Pump + Auxiliary(0.0kW)	100.0	58705	Latent	176.0	13157				
			Total (Electric Heat Pump)	100.0	43858				

### WINTER CALCULATIONS

Winter Heating Load (for 4061 sqft)

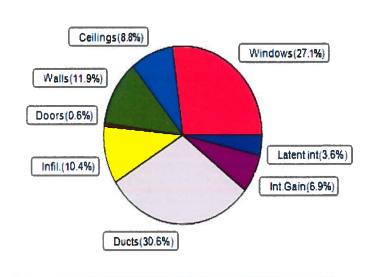
Load component			Load	
Window total	773	sqft	11131	Btuh
Wall total	2367	sqft	8306	Btuh
Door total	20	sqft	368	Btuh
Ceiling total	4467	sqft	4535	Btuh
Floor total	4061	sqft	17020	Btuh
Infiltration	110	cfm	4813	Btuh
Duct loss			12532	Btuh
Subtotal			58705	Btuh
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			58705	Btuh



### SUMMER CALCULATIONS Infil (8 244)

Summer Cooling Load (for 4061 sqft)

Load component			Load	
Window total	773	sqft	11888	Btuh
Wall total	2367	sqft	5228	Btuh
Door total	20	sqft	276	Btuh
Ceiling total	4467	sqft	3855	Btuh
Floor total			0	Btuh
Infiltration	82	cfm	1715	Btuh
Internal gain			3040	Btuh
Duct gain			10381	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Blower Load			0	Btuh
Total sensible gain			36383	Btuh
Latent gain(ducts)			3030	Btuh
Latent gain(infiltration)			2845	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupa	ants/othe	er)	1600	Btuh
Total latent gain			7476	Btuh
TOTAL HEAT GAIN			43858	Btuh





EnergyGauge® System Sizing
PREPARED BY:
DATE: 49/5/2019

# **System Sizing Calculations - Winter**

## Residential Load - Whole House Component Details

Mike & Angela Wood NW Old Mill Road Lake City, FL 32055 Project Title: Wood Residence Building Type: User

6/5/2019

Reference City: Gainesville, FL (Defaults) Winter Temperature Difference: 40.0 F (TMY3 99%)

#### **Component Loads for Whole House**

Window	Panes/Type	Frame U	Orientation	Area(sqft) X	HTM=	Load
1	2, NFRC 0.25	Vinyl 0.36	S	15.0	14.4	216 Btuh
2	2, NFRC 0.25	Vinyl 0.36	S	72.0	14.4	1037 Btuh
3	2, NFRC 0.25	Vinyl 0.36	S	48.0	14.4	691 Btuh
4	2, NFRC 0.25	Vinyl 0.36	S	15.0	14.4	216 Btuh
5	2, NFRC 0.25	Vinyl 0.36	S	15.0	14.4	216 Btuh
6	2, NFRC 0.25	Vinyl 0.36	S	3.0	14.4	43 Btuh
7	2, NFRC 0.25	Vinyl 0.36	E	6.0	14.4	86 Btuh
8	2, NFRC 0.25	Vinyl 0.36	E	30.0	14.4	432 Btuh
9	2, NFRC 0.25	Vinyl 0.36	N	3.0	14.4	43 Btuh
10	2, NFRC 0.25	Vinyl 0.36	N	24.0	14.4	346 Btuh
11	2, NFRC 0.25	Vinyl 0.36	N	36.0	14.4	518 Btuh
12	2, NFRC 0.25	Vinyl 0.36	W	24.0	14.4	346 Btuh
13	2, NFRC 0.25	Metal 0.36	N	128.0	14.4	1843 Btuh
14	2, NFRC 0.25	Metal 0.36	E	84.0	14.4	1210 Btuh
15	2, NFRC 0.25	Vinyl 0.36	N	84.0	14.4	1210 Btuh
16	2, NFRC 0.25	Vinyl 0.36	E	48.0	14.4	691 Btuh
17	2, NFRC 0.25	Vinyl 0.36	N	48.0	14.4	691 Btuh
18	2, NFRC 0.25	Vinyl 0.36	W	90.0	14.4	1296 Btuh
	Window Total			773.0(sqft)		11131 Btuh
Walls	Туре	Ornt. Ueff.	R-Value	Area X	HTM=	Load
			(Cav/Sh)			
] 1	Frame - Wood	- Ext (0.089)	13.0/0.0	129	3.55	458 Btuh
2 3	Frame - Wood	- Ext (0.089)	13.0/0.0	96	3.55	341 Btuh
3	Frame - Wood	- Ext (0.089)	13.0/0.0	84	3.55	298 Btuh
4	Frame - Wood	- Ext (0.077)	19.0/0.0	211	3.09	651 Btuh
5 6	Frame - Wood	- Ext (0.089)	13.0/0.0	45	3.55	160 Btuh
6	Frame - Wood	- Ext (0.089)	13.0/0.0	186	3.55	660 Btuh
7	Frame - Wood	- Ext (0.089)	13.0/0.0	396	3.55	1406 Btuh
8	Frame - Wood	- Ext (0.089)	13.0/0.0	141	3.55	501 Btuh
9	Frame - Wood	- Ext (0.089)	13.0/0.0	24	3.55	85 Btuh
10	Frame - Wood	- Ext (0.089)	13.0/0.0	76	3.55	270 Btuh
11	Frame - Wood	- Ext (0.089)	13.0/0.0	15	3.55	53 Btuh
12	Frame - Wood	- Ext (0.089)	13.0/0.0	54	3.55	192 Btuh
13	Frame - Wood	- Ext (0.089)	13.0/0.0	207	3.55	735 Btuh
14	Frame - Wood	- Ext (0.089)	13.0/0.0	66	3.55	234 Btuh
15	1	- Ext (0.089)	13.0/0.0	637	3.55	2262 Btuh
	Wall Total			2367(sqft)		8306 Btuh
Doors	Туре	Storm Ueff.		Area X	HTM=	Load
1	Insulated - Exter	for, n (0.460)		20	18.4	368 Btuh
	Door Total			20(sqft)		368Btuh
Ceilings	Type/Color/Surfa		R-Value	Area X	HTM=	Load
1	Vented Attic/L/S	hing (0.025)	38.0/0.0	4467	1.0	4535 Btuh
	Ceiling Total			4467(sqft)		4535Btuh

## **Manual J Winter Calculations**

Residential Load - Component Details (continued)

Mike & Angela Wood NW Old Mill Road Lake City, FL 32055 Project Title: Wood Residence Building Type: User

6/5/2019

Floors	Туре	Ueff.	R-Value	Size X		HTM=	Load
1	Slab On Grade	(1.180)	0.0	360.6	ft(perim	.) 47.2	17020 Btuh
	Floor Total			4061	sqft		17020 Btuh
				Envelope	Subtota	l:	41360 Btuh
Infiltration	Type Natural	Wholehouse AC 0.		` '	III Ratio 1.00	CFM= 109.9	4813 Btuh
Duct load	Average sealed, R6.0, Supply(Att), Return(Att) (DLM of 0.271)						12532 Btuh
All Zones	Sensible Subtotal All Zones						58705 Btuh

#### WHOLE HOUSE TOTALS

#### **EQUIPMENT**

Electric Heat Pump	#	58705 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)



# System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Wood Project Title:

Wood Residence

Mike & Angela Wood NW Old Mill Road Lake City, FL 32055

6/5/2019

Reference City: Gainesville, FL

Temperature Difference: 19.0F(TMY3 99%) Humidity difference: 51gr.

#### **Component Loads for Whole House**

	Туре	<del>3</del> *			Over	hang	Wind	low Area	(sqft)	Н	ITM	Load	
Window	Panes SHGC U	InSh	IS	Ornt	Len	Hgt	Gross	Shaded i	Unshaded	Shaded	Unshaded		
1	2 NFRC 0.25, 0.36	No	No	S	1.0ft.	5.0ft.	15.0	3.4	11.6	12	14	204	Btu
2	2 NFRC 0.25, 0.36	No	No	S	9.5ft.	0.5ft.	72.0	72.0	0.0	12	14	871	Btu
3	2 NFRC 0.25, 0.36	No	No	S	9.5ft.	0.5ft.	48.0	48.0	0.0	12	14	581	Btu
4	2 NFRC 0.25, 0.36	No	No	S	1.5ft.	0.5ft.	15.0	15.0	0.0	12	14	181	Btu
5	2 NFRC 0.25, 0.36	No	No	S	1.5ft.	1.0ft.	15.0	15.0	0.0	12	14	181	Btu
6	2 NFRC 0.25, 0.36	No	No	S	1.5ft.	0.3ft.	3.0	3.0	0.0	12	14	36	Btu
7	2 NFRC 0.25, 0.36	No	No	Е	1.5ft.	3.0ft.	6.0	0.0	6.0	12	31	186	Btu
8	2 NFRC 0.25, 0.36	No	No	Е	1.5ft.	6.0ft.	30.0	0.0	30.0	12	31	928	Btu
9	2 NFRC 0.25, 0.36	No	No	N	15.5f	1.0ft.	3.0	0.0	3.0	12	12	36	Btu
10	2 NFRC 0.25, 0.36	No	No	N	15.5f	1.0ft.	24.0	0.0	24.0	12	12	290	Btu
11	2 NFRC 0.25, 0.36	No	No	N	15.5f	1.0ft.	36.0	0.0	36.0	12	12	436	Btu
12	2 NFRC 0.25, 0.36	No	No	W	15.5f	1.0ft.	24.0	24.0	0.0	12	31	290	Btu
13	2 NFRC 0.25, 0.36	No	No	N	20.0f	1.0ft.	128.0	0.0	128.0	12	12	1549	Btu
14	2 NFRC 0.25, 0.36	No	No	Ε	10.0f	1.0ft.	84.0	76.6	7.4	12	31	1155	Btu
15	2 NFRC 0.25, 0.36	No	No	N		1.0ft.	84.0	0.0	84.0	12	12	1016	Btu
16	2 NFRC 0.25, 0.36	No	No	E		1.0ft.	48.0	48.0	0.0	12	31	581	Btu
17	2 NFRC 0.25, 0.36	No	No	N		1.0ft.	48.0	0.0	48.0	12	12	581	Btu
18	2 NFRC 0.25, 0.36	No	No	W	1.5ft.		90.0	0.0	90.0	12	31	2785	
	Window Total			••	710111	0.0	773 (		00.0		0.	11888	
Walls	Type			- 11	-Value	, D /			ooft)		LITAA		Dlu
Walls	Type			U	-value			Area(	sqit)		нтм	Load	
						Cav/S							
1	Frame - Wood - Ext				0.09	13.0		129			2.3	292	Btu
2	Frame - Wood - Ext				0.09	13.0		96.			2.3	217	Btul
3	Frame - Wood - Ext				0.09	13.0		84.			2.3	190	Btul
4	Frame - Wood - Ext				0.08	19.0		210			1.7	349	Btu
5	Frame - Wood - Ext			(	0.09	13.0		45.	.0		2.3	102	Btul
6	Frame - Wood - Ext			(	0.09	13.0	/0.0	186			2.3	421	Btul
7	Frame - Wood - Ext				0.09	13.0	/0.0	396			2.3	896	Btul
8	Frame - Wood - Ext			(	0.09	13.0	/0.0	141	.0		2.3	319	Btul
9	Frame - Wood - Ext			(	0.09	13.0	/0.0	24.	.0		2.3	54	Btul
10	Frame - Wood - Ext			(	0.09	13.0	/0.0	76.	.0		2.3	172	Btul
11	Frame - Wood - Ext			(	0.09	13.0	/0.0	15.	.0		2.3	34	Btul
12	Frame - Wood - Ext			(	0.09	13.0	/0.0	54.	.0		2.3	122	Btul
13	Frame - Wood - Ext			(	0.09	13.0	/0.0	207	'.0		2.3	469	Btul
14	Frame - Wood - Ext			(	0.09	13.0	/0.0	66.	.0		2.3	149	Btul
15	Frame - Wood - Ext			(	0.09	09 13.0/0.0 637.0				2.3	1442	Btul	
	Wall Total							236	7 (sqft)			5228	Btul
Doors	Туре							Area (	· · ·		НТМ	Load	
1	Insulated - Exterior							20.			13.8	276	Dtut
•	Door Total										13.0		
<b></b>									0 (sqft)			276	Btu
Ceilings	Type/Color/Surfa				·Value	)	K-Value	Area(	sqft)		HTM	Load	
1	Vented Attic/Light/Sh	ingle/F	RB		0.025	3	38.0/0.0	4467	7.0		0.86	3855	Btul
	Ceiling Total							4467	7 (sqft)			3855	
Floors	Туре					R-V	'alue	Siz			нтм	Load	
1	Slab On Grade					v	0.0		.C 31 (ft-perim	otor)			D41
•							0.0			iclei)	0.0		Btul
	Floor Total					_		4061.0	0 (sqft)		-	0	Btu
								En	velope \$	2		21247	D4

# **Manual J Summer Calculations**

Residential Load - Component Details (continued)

Project Title: Climate:FL\_GAINESVILLE\_REGIONAL\_A

Wood Residence

Mike & Angela Wood NW Old Mill Road Lake City, FL 32055

6/5/2019

Infiltration	Type Natural	Average ACH 0.14		(cuft) V 6549	Vall Ratio 1	CFM= 82.4	Load 1715	Btuh
Internal gain		Occupants 8	Btu X	uh/occu 230	ıpant +	Appliance 1200	Load	
				Sen	sible Envel	ope Load:	26001	Btuh
Duct load	Average sealed,Supp	oly(R6.0-Attic), Return(R6.0-Attic)			(DGM of (	0.399)	10381	Btuh
				Sensi	ble Load A	All Zones	36383	Btuh

## **Manual J Summer Calculations**

Residential Load - Component Details (continued)

Project Title: Climate:FL\_GAINESVILLE\_REGIONAL\_A

Mike & Angela Wood NW Old Mill Road Lake City, FL 32055

Wood Residence

6/5/2019

#### WHOLE HOUSE TOTALS

	Sensible Envelope Load All Zones	26001	Btuh		
	Sensible Duct Load	10381	Btuh		
	Total Sensible Zone Loads	36383	Btuh		
	Sensible ventilation				
	Blower				
Whole House	Total sensible gain	36383	Btuh		
Totals for Cooling	Latent infiltration gain (for 51 gr. humidity difference)	2845	Btuh		
	Latent ventilation gain	0	Btuh		
	Latent duct gain	3030	Btuh		
	Latent occupant gain (8.0 people @ 200 Btuh per person)	1600	Btuh		
	Latent other gain	0	Btuh		
	Latent total gain	7476	Btuh		
	TOTAL GAIN	43858	Btuh		

EQUIPMENT				
1. Central Unit	#	ŧ		43858 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(1/2))

(Ornt - compass orientation)



Version 8