Columbia County New Building Permit Application

MWC Edgley			
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	EAW	(CUU	Lec

	Land Use
□ Owner Builder Disclosure Statement □ Land Owner Affidavit □	
Septic Permit No. 9-0432 OR City Water	Fax N/A
Applicant (Who will sign/pickup the permit) Kimmy Edgley	Phone 386-752-0580
Address 306 SW Main Blvd, Lake City, FI 32025	
Owners Name Sharon O'Quinn	Phone 352-339-0720
911 Address 370 NW Highpoint Dr, Lake City, FI 32055	
Contractors Name Douglas E Edgley	Phone 386-623-6654
Address 320 SW Elk Hunter Glen, Fort White FI 32038	3
Contractor Email kimmy@edgleyconstruction.com	***Include to get updates on this job.
Fee Simple Owner Name & Address Sharon O'Quinn	
Bonding Co. Name & Address N/A	
Architect/Engineer Name & Address Diana M. Higgins, P.E., 323	10th Ave W, Ste 103, Palmetto, FI 34221
Mortgage Lenders Name & Address N/A	
Circle the correct power company FL Power & Light Clay Elec	c. Suwannee Valley Elec. Duke Energy
Property ID Number 20-3S-16-02202-105 Estim	ated Construction Cost \$306,000.00
Subdivision Name High Pointe	Lot ⁵ Block Unit Phase
Driving Directions from a Major Road 90 W TR on Brown Rd, go a	
TR on NW High Point Dr, Site on Left.	
Construction of Residential Home	Commercial OR X Residential
	Number of Existing Dwellings on Property N/A
Proposed Use/Occupancy Single Family	
Is the Building Fire Sprinkled? If Yes, blueprints included	Or Explain
	D.O.T. Permit or Have an Existing Drive
• •	ide <u>781</u> Side <u>821</u> Rear <u>2931</u>
Number of Stories 1 Heated Floor Area 2384 Total	al Floor Area 3448 Acreage 2.68
Zoning Applications applied for (Site & Development Plan, Special)	Exception, etc.) SPUEW DUIC 7.5.19

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.

TIME LIMITATIONS 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 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.

FLORIDA'S CONSTRUCTION LIEN LAW: Protect Yourself and Your Investment: 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, even if you have paid your contractor in full. 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.

NOTICE TO OWNER: 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.

Sharp Signature **Property owners must sign here before 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.

SEAL:

Personally known or Produced Identification

ALIGE BURKE PEELER
Commission # GG 122000
Expires September 15, 2021
Bonded Thru Budget Natary Serecus

Legend

Parcels

raiceis

2018Aerials

Water Lines

- TALL CO
- ✓ Others
- ✓ CANAL/DITCH
- / CREEK
- ✓ STREAM / RIVER

Addresses

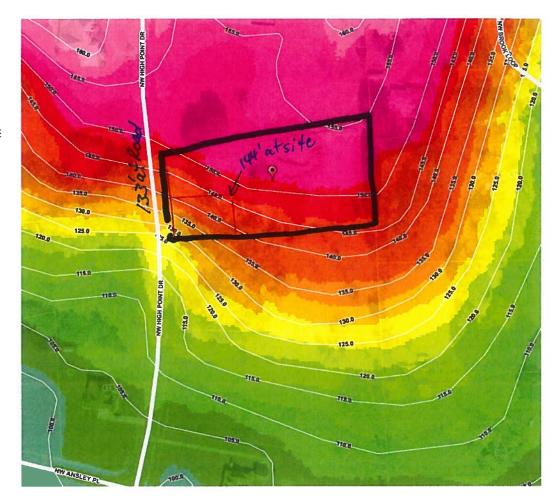
2018 Flood Zones

- 0.2 PCT ANNUAL CHANCE
- A
- AE
- AH 🎟

LidarElevations

Columbia County, FLA - Building & Zoning Property Map

Printed: Tue Jun 18 2019 12:35:35 GMT-0400 (Eastern Daylight Time)



Parcel Information

Parcel No: 20-3S-16-02202-105 Owner: OQUINN SHARON PATTON

Subdivision: HIGH POINTE

Lot:

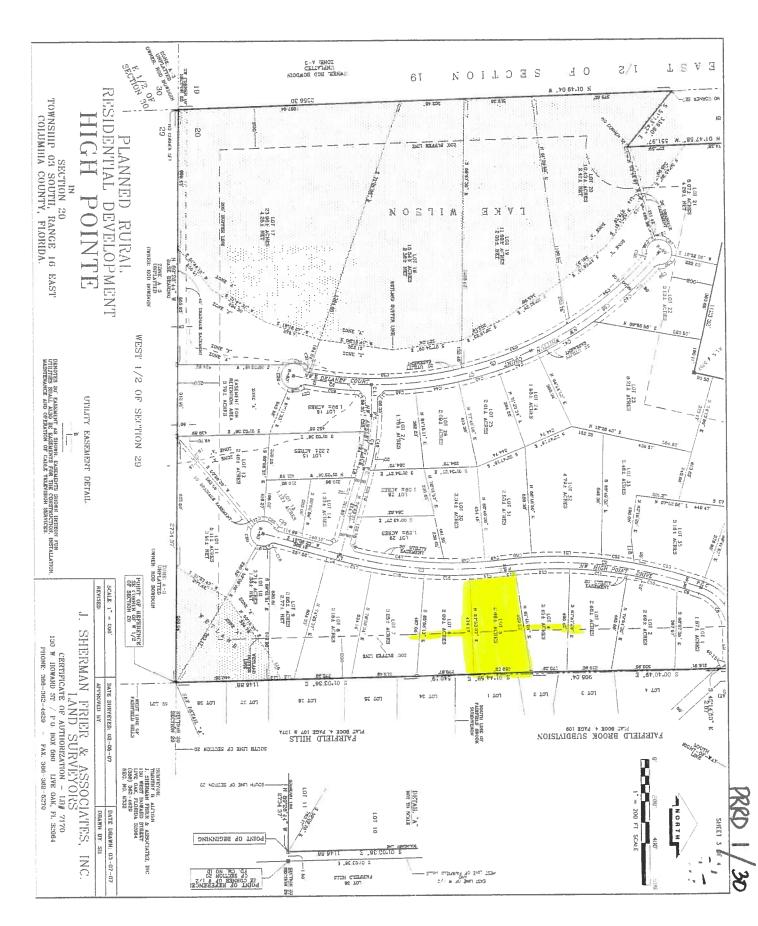
Acres: 2.67945957 Deed Acres: 2.68 Ac

District: District 3 Bucky Nash Future Land Uses: Agriculture - 3

Flood Zones:

Official Zoning Atlas: A-3, PRD

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.



SUBCONTRACTOR VERIFICATION

APPLICATION/PERMIT # 1906-27 JOB NAME OUINN

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 <u>REQUIRED</u> 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. Print Name Matthew H. Burns Signature Lic **ELECTRICAL** Liab Company Name: Matt Burns Electric Inc. w/c Phone #: 386-935-0444 License #: EC13006531 _{CC#}309 Need Print Name David E. Hall MECHANICAL/ Company Name: David Hall's A/C & Heating Svc. Inc. A/C W/C License #: CAC057424 Phone #: 386-755-9792 EX _{CC#}568 DE Need Print Name Don Bills PLUMBING/ Company Name: Hometown Plumbing Services LLQ Liab GAS W/C License #: CFC1428890 Phone #: 386-754-61 EX _{CC#} 298 DE Print Name Darin L. Summerlin Signature **ROOFING** \Box Lic Company Name: Summerlin Roofing Inc. Liab W/C _{CC#}534 License #: CCC1326192 Phone #: 386-288-5426 Signature **SHEET METAL** Print Name Lic Liab Company Name: W/C EX CC# Need FIRE SYSTEM/ Signature Print Name Lic Liab **SPRINKLER** Company Name: W/C Phone #:_____ CC# License#: DE Need Signature____ **SOLAR** Print Name Liab Company Name: W/C EX CC# Need Print Name STATE Liab Company Name: **SPECIALTY** W/C EΧ License #: _ CC#

NOTICE OF COMMENCEMENT

Tax Parcel Identification Number:

20-3S-16-02202-105

Clerk's Office Stamp

Inst: 201912012063 Date: 05/28/2019 Time: 11:58AM

Page 1 of 1 B: 1385 P: 902, P.DeWitt Cason, Clerk of Court Colum

County, By: BD Deputy Clerk

THE UNDERSIGNED hereby gives notice that improvements will be made to certain real property, and in accordance with Section 713.13 of the Florida Statutes, the following information is provided in this NOTICE OF COMMENCEMENT.

1. Description of property (legal description): Lot 5 High Pointe S/D WD 1189-1043, WD 1191-2293, WD 1250-1923, WD 1346-2254, WD 1358-478. a) Street (job) Address: 370 SW High Point Dr. Lake City, FI 32055
2. General description of improvements: Residential Home
3. Owner Information or Lessee information if the Lessee contracted for the improvements: a) Name and address; Sharon O'Quinn 739 NW Lona Loop, Lake City, FI 32055
b) Name and address of fee simple titleholder (if other than owner)
A 60 A 1 A 1 E 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
4. Contractor Information a) Name and address: Douglas Edgley, 306 SW Main Blvd, Lake City Fl 32025
b) Telephone No.: 388-752-0580
5. Surety Information (if applicable, a copy of the payment bond is attached):
a) Name and address: N/A
b) Amount of Bond:
c) Telephone No.:
6. Lender
a) Name and address: N/A b) Phone No
7. Person within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section
713.13(1)(a)7., Florida Statutes:
a) Name and address: Douglas Edgley, 320 SW Elk Hunter Glein
b) Telephone No.:386-752-0580
of receptore rough
8. In addition to himself or herself, Owner designates the following person to receive a copy of the Lienor's Notice as provided in Section 713.13(I)(b), Florida Statutes:
a) Name: Douglas Edglev OF Edgley Construction Co
b) Telephone No.: 386-752-0580
300-73Z-030U
9. Expiration date of Notice of Commencement (the expiration date will be 1 year from the date of recording unless a different date is specified):
WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR 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 YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.
STATE OF FLORIDA
COUNTY OF COLUMBIA 10. Sharow Swaw
Signature of Owner or Lessee, or Owner's or Lessee's Authorized Office/Director/Partner/Manager
Sharon O'Ouinn
Printed Name and Signatory's Title/Office
Fillited Name and Signatory's Thieroffice
The foregoing instrument was acknowledged before me, a Florida Notary, this 20th day of May 20 2015 by:
The foregoing instrument was acknowledged before me, a Florida Notary, this 20th day of 10th day of 10
Shoam D'Ouss
(Name of Person) as for Oron (Type of Authority) (name of party on behalf of whom instrument was executed)
(Name of Person) (Type of Authority) (name of party on behalf of whom instrument was executed)
Personally Known V OR Produced Identification Type
Notary Signature S I'N IN L. C. Superior Seal Notary Stamp or Seal Notary Public, State of Florida Commission No. GG257215

Prepared by: Branden L. Strickland, Esq. Strickland Law Firm, P.L. 283 NW Cole Terrace Lake City, FL 32055 386-752-0946

The preparer of this instrument has performed no title examination nor has the prepare issued any title insurance or furnished any opinion regarding the title, names, addresses, tax identification number and legal description furnished by parties

FILE# 18-0466

Inst: 201812007692 Dute: 04/19/2018 Time: 4:07PM Page 1 of 1 B: 1358 F: 47B, P.DeWitt Comm, Clerk of Court Columbia, County, By: BD Deputy ClerkDec Stomp-Deed: 245.00

WARRANTY DEED

THIS INDENTURE, Made the 11 day of April, 2018, by Edwin J. Higgins and His Wife, Andra P. Higgins, whose address is 739 NW Lona Loop, Lake City, FL 32055, hereinafter called the Grantor, to Sharon Patton Genm, whose post office address is: 739 NW Lona Loop, Lake City, FL 32055 hereinafter called the Granter.

(Wherever used herein the terms "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 corporation)

WITTNESSETH that the Grantor, for and in consideration of the sum of ten (\$10.00) dollars 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 Columbia County, Florida:

LOT 5, PLANNED RURAL RESIDENTIAL DEVELOPMENT HIGH POINTE, ACCORDING TO THE MAP OR PLAT THEREOF, AS RECORDED IN PRRD BOOK 1, PAGE(S) 28 THROUGH 31, OF THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA.

TOGETHER WITH all tenements, hereditaments and appurtenances hereto 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, and hereby warrants the title to the 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 the prior year;

IN WITNESS WHEREOF the said Grantor has hereunto set their hand and seal the day and hear first above written.

Signed, Sealed and Delivered in our presence:

Brandi Lynn Lee NOTARY PUBLIC

STATE OF FLORIDA Comm# GG052483 Expires 12/5/2020 Edwin L Higgins

Andra P. Higgins

STATE OF FLORIDA COUNTY OF COLUMBIA

I HEREBY CERTIFY that on this day, before me, an officer duly authorized in the State aforesaid and in the county aforesaid, to take acknowledgments, personally appeared, EDWIN J. HIGGINS AND HIS WIFE, ANDRA P. HIGGINS, to me known to be the person described in and who executed the foregoing instrument and acknowledged before me that they have executed the same.

WITNESS my hand and official seal in the County and State last aforesaid this day of April, 2018.

(SEAL)

My Commission Expires:

muza

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



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:

11/5/2018 3:15:08 PM

Address:

370 NW HIGH POINT Dr

City:

LAKE CITY

State:

FL

Zip Code

32055

Parcel ID

02202-105

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

Legend

Columbia County, FLA - Building & Zoning Property Map

Printed: Mon Jun 17 2019 08:48:21 GMT-0400 (Eastern Daylight Time)

Parcels Roads

Roads

Rudus

others

Dirt

Interstate

Main Other

Paved

Private

Addressing:2018 Base Flood Elevations Group
2018 Base Flood Elevations

DEFAULT

Base Flood Elevations

2018 Base Flood Elevation Zones

0.2 PCT ANNUAL CHANCE

O A

□ AE

AH.

2018 Flood Zones

0.2 PCT ANNUAL CHANCE

D A

AE AH

Contours

default(Contours.shp)

DEFAULT

DevZones1

O others

□ A-2

□ A-3

CG CHI

O CI

O CN

CSA CSA

□ ESA-2

0 [

□ ILW

MUD-I

PRD

PRRD

O RMF-1

RMF-2

RO RR

RSF-1

RSF-2

RSF-3

RSF/MH-1

□ RSF/MH-2

RSF/MH-3
DEFAULT

2018Aerials

8



Parcel Information

Parcel No: 20-3S-16-02202-105 Owner: OQUINN SHARON PATTON

Subdivision: HIGH POINTE

Lot:

Acres: 2.67945957 Deed Acres: 2.68 Ac

District: District 3 Bucky Nash Future Land Uses: Agriculture - 3

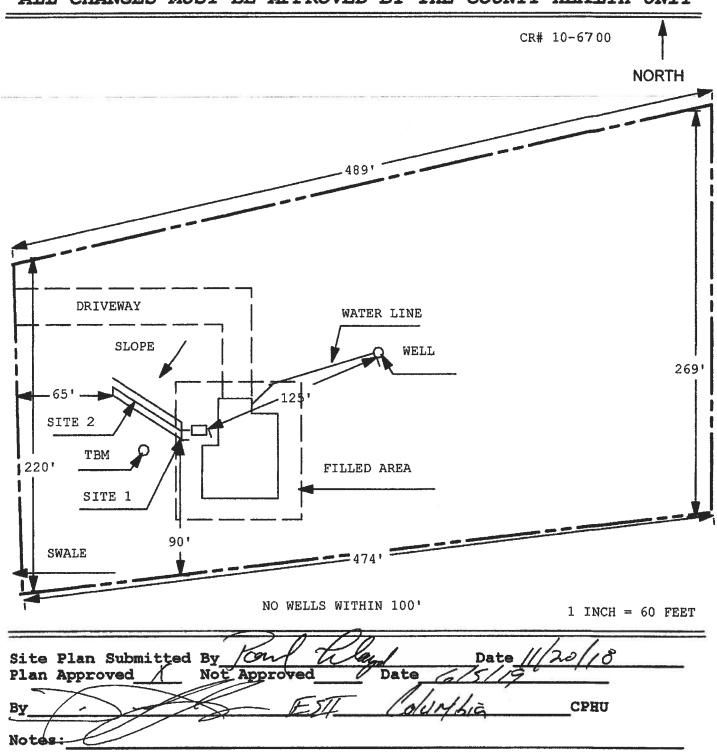
Flood Zones:

Official Zoning Atlas: A-3, PRD

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Application for Onsite Sewage Disposal System Construction Permit. Part II Site Plan Permit Application Number: 19-0432

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT





STATE OF FLORIDA DEPARTMENT OF HEALTH

CR # 10-	7000	
PERMIT NO.)	-00	L11
DATE PAID:	12	179
FEE PAID:	3/0	00
RECEIPT #:)	-16	9/-
	/	

ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM ONSITE SEWAGE TREATMENT AND DISPOSAL RECEIPT #: 14/169/3
APPLICATION FOR CONSTRUCTION PERMIT
APPLICATION FOR:
APPLICATION FOR: [X] New System [] Existing System [] Holding Tank [] Innovative [] Repair [] Abandonment [] Temporary []
APPLICANT: SHARON OQUINN
AGENT: EDGLEY CONSTRUCTION TELEPHONE: (386) 752-0580
MAILING ADDRESS: 306 SW MAIN BLVD. LAKE CITY FL 32024
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
LOT: 5 BLOCK: N/A SUBDIVISION: HIGH POINT S/D PLATTED:
PROPERTY ID #: 20-3S-16-02202-105 ZONING: RES I/M OR EQUIVALENT: [NO
PROPERTY SIZE: 2.680 ACRES WATER SUPPLY: [X] PRIVATE PUBLIC []<=2000GPD []>2000GPD
IS SEWER AVAILABLE AS PER 381.0065, FS? [NO] DISTANCE TO SEWER: N/A FT
PROPERTY ADDRESS: 370 NW HIGH POINT DR. LAKE CITY
DIRECTIONS TO PROPERTY: 90 WEST TURN RIGHT ON BROWN RD. GO AROUND CURVE TURN LEFT ON 2ED BROOK LOOP, TURN RIGHT ON NW HIGH POINT DR. SITE ON LEFT.
BUILDING INFORMATION [X] RESIDENTIAL [] COMMERCIAL
Unit Type of No. of Building Commercial/Institutional System Design
Unit Type of No. Establishment Bedrooms Area Sqft Table 1, Chapter 64E-6, FAC
2384
1 HOUSE 3 2,420
2
3
4
[] Floor/Equipment Drains t) Other (Specify)
SIGNATURE: Con Klaype DATE: 14/20/18



Items to Include-



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

Website: http://www.columbiacountyfla.com/BuildingandZoning.asp

	GENERAL REQUIREMENTS:		h Box sha Circled as	
	APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Applicable	
_	The state of the s	Select Fr		
1	Two (2) complete sets of plans containing the following:	TU	1	T T
2	All drawings must be clear, concise, drawn to scale, details that are not used shall be marked void		 	-
3	Condition space (Sq. Ft.) 2384 Total (Sq. Ft.) under roof 34418	Yes	No	NA NA
311	signers name and signature shall be on all documents and a licensed architect or engineer, signature a all be affixed to the plans and documents as per the FLORIDA BUILDING CODES RESIDENTIAL Interest in the Plan information including:	nd official 07.1.	embossed	i seal
4	Dimensions of lot or parcel of land	·		
	Dimensions of all building set backs	- 6		ļ
б	Ocation of all other structures (include revers 5-44-45)	- 6		
	Location of all other structures (include square footage of structures) on parcel, existing or proposed well and septic tank and all utility easements.	-6-		direct description of the contract of the cont
7	Provide a full legal description of property. Was sandie Deed	- bocco		
<u>W</u>	ind-load Engineering Summary, calculations and any details are required. GENERAL REQUIREMENTS:	Team	4- T-1	1
	APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		to Includ	
	DE ONE BODIVILLIAL	ŀ	Box shall	be
			ircled as blicable	
8	Plans or specifications must show compliance with FBCR Chapter 3	Yes	No	1 575
		Select Fro		NA
9	Basic wind speed (3-second gust), miles per hour	- /	IN DIOP	UOWII
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	L		
	The design wind pressure in terms of psf (kN/m ²), to be used for the design of exterior component	-		
13	cladding materials not specifally designed by the registered design professional.	-1	-	
E	evations Drawing including:			
14	All side views of the structure		T	
15	Roof pitch	- Grand	<u> </u>	
16	Overhang dimensions and detail with attic ventilation		I	
17	Location, size and height above roof of chimneys		-	+
18	Location and size of skylights with Florida Product Approval	-		+
19	Number of stories	1		6
20	Building height from the established grade to the roofs highest peak	1	-	
-	Prese to the look hear	- 6	E.	1

	uri and William Indiandiana.		
-	Floor Pl an Including: Dimensioned area plan showing rooms, attached garage, breeze ways, covered porches,	1	
21	deck, balconies	- 6	
	Raised floor surfaces located more than 30 inches above the floor or grade	- 1	
22	All exterior and interior shear walls indicated	-	
	Shear wall opening shown (Windows, Doors and Garage doors)	- 6000	
24	Show compliance with Section FBCR 310 Emergency escape and rescue opening shown in each		
25	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.		
26		6	
26	Fireplaces types (gas appliance) (vented or non-vented) or wood burning with Hearth	-	
27	(see chapter 10 and chapter 24 of FBCR)		
21	(see chapter to and chapter 24 of FBCR)	-	
28	Show stairs with dimensions (width, tread and riser and total run) details of guardrails, Handrails		
20	Silow states with difficustons (width, frend and riser and total run) details of guarantes, regionalis	-	
29	Identify accessibility of bathroom (see FBCR SECTION 320)	- 1	
129	Identity accessionity of bathroom (see F box obotton 320)		
A II	l materials placed within opening or onto/into exterior walls, soffits or roofs shal	l have Florida I	roduct
PAIL	proval number and mfg. installation information submitted with the plans		
(Se	ee Florida product approval form)		
	CONTRACT DECLIPEDEDITO.	Items to Inclu	do
	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Each Box shall	- 1
	APPLICANT - PLEASE CHECK ALL APPLICABLE BUARS DEPORE SUBMITTAL	Circled as	
		Applicable	
L		Applicable	-
2000			
FE	SCR 403: Foundation Plans	Select From Dr	on doum
30	Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size	Sciect From Dr	op down
30	and type of reinforcing.	- 6	
21		- Last	
31			-
32			
33			
34	Location of horizontal and vertical steel, for foundation or walls (include # size and type) For struct	ures	
	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		
וויבוני מויבוני	BCR 506: CONCRETE SLAB ON GRADE		
_			
35			
36	Show control j oints, synthetic fiber reinforcement or welded fire fabric reinforcement and Sports	1-1	
FE	CR 318: PROTECTION AGAINST TERMITES		
	Indicate on the foundation plan if soil treatment is used for subterranean termite prevention or	1.1	
37		-	
	termiticides Truat Soil		
F	BCR 606: Masonry Walls and Stem walls (load bearing & shear Walls)		
3	8 Show all materials making up walls, wall height, and Block size, mortar type	- 1	1
	Show all materials making up walls, wall height, and Block size, mortar type 9 Show all Lintel sizes, type, spans and tie-beam sizes and spacing of reinforcement 1000 d 1500 d		-
3	Show all materials making up walls, wall height, and Block size, mortar type Show all Lintel sizes, type, spans and tie-beam sizes and spacing of reinforcement wood Francetal frame shear wall and roof systems shall be designed, signed and sealed by Florida F		<u></u>

lo	or Framing System: First and/or second story Floor truss package shall including layout and details, signed and sealed by Florida Registered	-			4
	_ a + 1 T AT LIE	_			
0	Professional Engineer Show conventional floor joist type, size, span, spacing and attachment to load bearing walls,	-		1	1
1	etem wells and/or priers	-			L
2	Girder type, size and spacing to load bearing walls, stem wall and/or priers	-			L
3	Attachment of joist to girder	-		-	1
4	Wind load requirements where applicable				1
5	Show required under-floor crawl space			- 1	1
6	Show required amount of ventilation opening for under-floor spaces				1
7	Show required covering of ventilation opening				
8	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 &				2
19	intermediate of the areas structural panel sheathing	_			
50	Show Draftstopping, Fire caulking and Fire blocking	_			-4
51	Show fireproofing requirements for garages attached to living spaces, per FBCR section 302.6	-			- 6
52	Provide live and dead load rating of floor framing systems (psf).	-			-6
סוים	CR CHAPTER 6 WOOD WALL FRAMING CONSTRUCTION				
1, 10	CRCHAILERO WOOD WILDERING SO.			to Inclu	
	GENERAL REQUIREMENTS:		Each E	Box shall	be
	APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL			rcled as	
			Aŗ	plicable	;
	Se	elec	t from	n Droj	ob c
53	Stud type, grade, size, wall height and oc spacing for all load bearing or shear walls	-	-	ļ	
54	11 pp c p coo 2 0	-	1	pa-	
24	Show wood structural panel's sheathing attachment to studs, joist, trusses, rafters and structural				
55		-	6	+	
JJ]	
	panel sheathing Show all required connectors with a max uplift rating and required number of connectors and				
= -		_	1	-	
56					
	rafter systems Show sizes, type, span lengths and required number of support jack studs, king studs for		1		†
67	1	-	Comment		
57		-	Lor	-	
58	Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural		Acco		
59		-	Contract		
60		-	Contract of the last of the la		
UU	A detail showing gable truss bracing, wan bundon maining downer or and wan image bracing details	<u>. </u>			-
F	BCR :ROOF SYSTEMS:			1	
61		-			
62	Include a layout and truss details, signed and sealed by Florida Professional Engineer	-	1	1	ļ
63	Show types of connector's assemblies' and resistance uplift rating for all trusses and rafters	-	1		ļ
64		-			
65	Provide dead load rating of trusses	_	V		1
Ī	BCR 802:Conventional Roof Framing Layout				
	Rafter and ridge beams sizes, span, species and spacing	Τ-	L	1	I
65	Connectors to wall assemblies' include assemblies' resistance to uplift rating	-	س ا	121	1
		+-	Later	jan	-
	Valley framing and support details	+-	1_	-	†
05	Provide dead load rating of rafter system	1 -			
F	BCR 803 ROOF SHEATHING				
70		T	1	4	
		-			1
	sheathing, grade, thickness Show fastener Size and schedule for structural panel sheathing on the edges & intermediate areas				

	13			
R	OOF ASSEMBLIES FRC Chapter 9			
72	Include all materials which will make up the roof assembles covering	1	T	1
73	Submit Florida Product Approval numbers for each component of the roof assembles covering			+
_/3	The state of the rest of the r	1-	1	
Res bui Cos req me	BCR Chapter 11 Energy Efficiency Code for Residential Building sidential construction shall comply with this code by using the following compliance methods in the I dings compliance methods. Two of the required forms are to be submitted, N1100.1.1.1 As an altermpliance Method A, the Alternate Residential Point System Method hand calculation, Alternate Form uirements specific to this calculation are located in Sub appendix C to Appendix G. Buildings comply et all mandatory requirements of this chapter. Computerized versions of the Alternate Residential Point acceptable for code compliance.	rnative to the 600A, may ving by this	e comp be used alternal	uterized d. All ive shall
	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Each C	to Incl Box sha ircled a	all be s
		Select from		
74	Show the insulation R value for the following areas of the structure	Telect from	TO TOP	DUNIE
75	Attic space R-38		+	
76	Exterior wall cavity R-19	- 1	-	-
77	Crawl space Concrete Floor	-		-
	The state of the s	- - - -	1	
60	20 cfm continuous required Shoken an Slee Shirt (P . E 101)			
80	Show clothes dryer route and total run of exhaust duct	- 4		T .
PI	umbing Fixture layout shown			
81	All fixtures waste water lines shall be shown on the foundationplan	-	T	4
82	Show the location of water heater on Elec. Sheet (P. E 101)	- 4	†	
	ivate Potable Water			
	Pump motor horse power 14/2 FIP -	- bearing	Ĭ	
84	Reservoir pressure tank gallon capacity 86 641.	- lamen		
85	Rating of cycle stop valve if used 30 feet. per min.	- Constitution		
El	ectrical lavout shown including			
86	Show Switches, receptacles outlets, lighting fixtures and Ceiling fans	- Louis	1	
87	Show all 120-volt, single phase, 15- and 20-ampere branch circuits outlets required to be protected	Luce	<u> </u>	-
00	oy Ground-Pault Circuit Interrupter (GFCI) Article 210.8 A	-		
88	Show the location of smoke detectors & Carbon monoxide detectors	- 6		
89	Show service panel, sub-panel, location(s) and total ampere ratings 200 19mp.	- 6		
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.	- 4		

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

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

Grounding electrode system. Per the National Electrical Code article 250.52.3

a listed Combination arc-fault circuit interrupter, Protection device.

Appliances and HVAC equipment and disconnects

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	Items to Include- Each Box shall be Circled as Applicable
--	--

[FEMS 95, 96, & 98 Are Required After APPROVAL from the ZONING DEPT.		
		Select from	n Drop down
93	Building Permit Application 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	- 6	
95	Environmental Health Permit or Sewer Tap Approval A copy of a approved Columbia County Environmental Health (386) 758-1058	- 4	
96	City of Lake City A City Water and/or Sewer letter. Call 386-752-2031		
97	Toilet facilities shall be provided for all construction sites		. 6
98	Town of Fort White (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.		4
99	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 grant)	-	4
100	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 letters are required for AE and AH zones.	-	4
101	11 1 rood development permit is also required for AE. Floodway & AH. Development permit cost is \$50.00	-	Lane
102	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.		
103	911 Address: 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, 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

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	INSWING & OUTSWING STEEL	FL4904-5
B. SLIDING			
C. SECTIONAL/ROLL UP			
D. OTHER			
2. WINDOWS			
A. SINGLE/DOUBLE HUNG	MI	VINYL SINGLE HUNG INS	FL12250-R10
B. HORIZONTAL SLIDER			
C. CASEMENT			
D. FIXED			
E. MULLION			
F. SKYLIGHTS			
G. OTHER			
3. PANEL WALL			
A. SIDING	CERTAINTEED	FIBERCEMENT BOARD	FL3148-R4
B. SOFFITS	KAYCAN	ALUM	FL16503
C. STOREFRONTS			
D. GLASS BLOCK			
E. OTHER	RHINO	UNDERLAYMENT	FL15216
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES	CERTAINTEED	ARCH SHINGLES	FL5444
B. NON-STRUCTURAL METAL			
C. ROOFING TILES			
D. SINGLE PLY ROOF			
E. OTHER	WOODLAND	#30 ROOFING FELT	FL1814-R6
5. STRUCTURAL COMPONENTS			
A. WOOD CONNECTORS			
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.

Fronny Edily	6/6/19		
Contractor OR Agent Signature	Date	NOTES:	



Engineering

- Geotechnical
- Environmental Laboratories

Cal-Tech Testing, Inc.

P O Box 1625 - Lake City FL 32056-1525 - Tal(386)755-3533 - Fax(386)752-5456 7540 103rd St, Suite 215, Jacksonville, FL 32210 • Tel(904)381-8901 • Fax(904)381-8902

REPORT OF IN-PLACE DENSITY TEST

JOB NO.: 18-00874-01

DATE TESTED: 12/28/2019

DATE REPORTED:

1/8/2019

PROJECT:	O'Quinn Residence Lake City FL					
CLIENT:	Sharon O'Quinn 739 NW Lona Loop	Lake City FL 32055	F. Mr. No. (And Street Section 1)			
GENERAL CONTRACTOR:	Bartger Backhoe Service LLC		American constitution of the second state of t			
EARTHWORK CONTRACTOR:	Badger Backhoe Service LLC		Annual Company of the			
INSPECTOR:	K. Harris					
AS	STM METHOD	SOIL	USE			
(D-6938) Nuclear	♥	BUILDING FILL	•			
	SPECIFIED REQ	UIREMENTS: 95%				

TEST NO.	TEST LOCATION	TEST DEPTH	WET DENSITY (Ib/ft³)	MOISTURE PERCENT	DRY DENSITY (Ib/ft³)	PROCTOR TEST NO.	PROCTOR VALUE	% MAXIMUM DENSITY
1	10 ft South & 15 ft East, Northwest Corner of Pad	12"	1188	7.5	110 5	1	113.6	97%
2	12 ft North & 10 ft East, Southwest Comer of Pad	12"	126 8	91	1162	1	1136	102%
3	15 ft North & 12 ft. West, Southeast Corner of Pad	12"	118 2	83	109 1	1	1136	96%
4	12 ft. South & 12 ft. West, Northeast Corner of Pad	12"	124 6	106	112 7	1	1136	99%

REMARKS:

The Above Tests Meet Specified Requirements.

222222	PROCTORS			
PROCTOR NO.	SOIL DESCRIPTION	MAXIMUM DRY UNIT	OPT.	
NO		WEIGHT (Ib/ft ³)	MOIST	TYPE
1	Light Brown Silty Sand	1136	10.1	MODIFIED (ASTM D-1557)

Respectfully Submitted, CAL-TECH TESTING, INC.

Hinds M. Cremer

Linda M. Creamer President - CEO

No. 65550

STATE OF

The test results presented in this report are specific only to the samples tested at the time of testing. The tests were performed in accordance with generally specific finite standards. Since material conditions can vary between test locations and change with time, sound judgement should be exercised with regard to the use and intercept without prior approval of the author.



• Engineering PO Bo

- · Geotechnical
- Environmental

Cal-Tech Testing, Inc.

P O Box 1625 - Lake City, FL 32056-1625 - Fel(366)755-3633 - Fax(386)752-5456 7540 103rd Street, Suite 215, Jacksonville, FL 32210

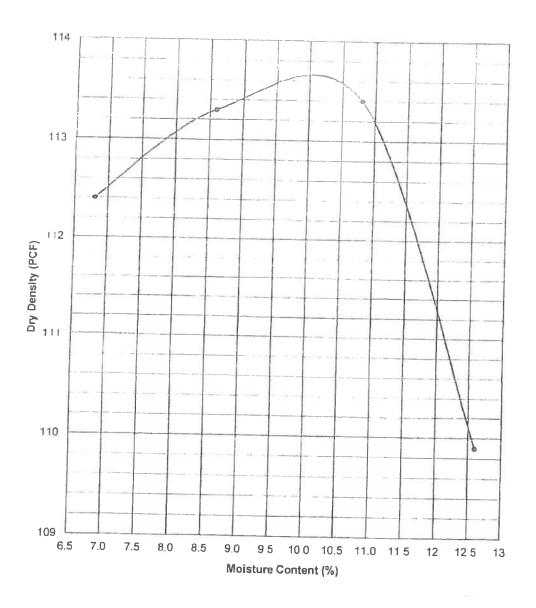
Laporator es

REPORT OF LABORATORY COMPACTION TEST

Client: Project Name: Project Location: Contractor:







PROCTOR DATA Proctor No Modified Proctor (ASTM D-1557) Standard Proctor (ASTM D-698) Maximum Dry Dens. Pcf: 1136 Optimum Moisture Percent: 10 1 Total -200 (%): 162 NA NP

The test results presented in this report are specific only to the samples tested at the time of testing. The tests were performed in accordance with generally accepted methods and standards. Since maturia conditions can vary between test locations and change with time, sound judgement should be exercised with regard to the use and interpretation of the data. This report shall not be reproduced without prior approval of the author.

 Sample Description:
 Light Brown Silty Sand

 Sample Location:
 On-Site

 Proposed Use:
 Building Fill

 Sampled By:
 K. Harris
 Date:
 12/28/2018

Date:

1/7/2019

Tested By: Remarks:

J Richter 1cc: Client 1cc: File

Linda M. Creamer President - CEO

No. 65550

Reviewed By: Date:

Licensed, Florida

GTATE OF

JGG



ENGINEERING & TESTING LABORATORY

P.O. Box 1625, Lake City, FL 32056-1625 450 SR. 13 N. Suite 206-308 · Jacksonville, FL 32259 Lake City • (386) 755-3633 Fax • (386) 752-5456

Jacksonville • (904) 381-8901 Fax • (904) 381-8902

JOB NO.: 18-874 DATE TESTED: 12/28/18

REPORT OF IN-PLACE DENSITY TEST

ASTM METHOD: (D-2922) Nucl	ear	([)-2937) Drive	e Cylinder		Other
PROJECT: Shason Daving Res (
CLIENT: Sharral OGGANN (SKP)	0601446	V-11100	com)			
GENERAL CONTRACTOR DAd GER DACK DE	EARTHW	ORK COM	NTRACTOR:_	BANKE	Darlih	೦೭
SOIL USE (SEE NOTE):	SPECIFIC	ATION R	EQUIREMEN	ITS	9	5
TECHNICIAN: K. HARRÍS		· · · · · · · · · · · · · · · · · · ·				
MODIFIED (ASTM D-1557):	STANDAR	D (ASTM	D-698)	- 47		
TEST TEST LOCATION	LIFT		WET DENS. LBS.CU.FT.	DRY DENS. LBS.CU.FT.		% MAX_DENS.
NO. LOCATION 1 H.L.). GRACK 10 5 4 15 EE	12"	1	11%.8	110.4	7.5	97
\$ 5.4 Charer, 12/2 × 10/2	12"	(126.8	116,2	9,7	105
3 S.F. CORNER 15 W 06 12 W	12"	1	118.2	169.1	8.3	94
4 W.E. Corne 1/2 \$ \$ 12 to	12"	1	174,6	112.6	10.6	99
REMARKS:PROCTOR						
NO. SOIL DESCRIPTION			PROCTO	R VALUE	<u>OP</u>	r. MOIST.
			113.1	-		
					-	
			Ļ			

NOTE: 1. Building Fill 2. Trench Backfill 3. Base Course 4. Subbase/Stabilized Subgrade 5. Embankment 6. Subgrade/Natural Soil 7. Other The test results presented in this report are specific only to the samples tested at the time of testing. The tests were performed in accordance with generally accepted methods and standards. Since material conditions can vary between test location and change with time, sound judgement should be exercised with regard to the use and interpretation of the data.

RESIDENTIAL ENERGY CONSERVATION CODE DOCUMENTATION CHECKLIST

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

Applications for compliance with the 2017 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 (one page) and an input summary checklist that can be used for field verification (usually four pages/may be greater). Energy Performance Level (EPL) Display Card (one page) HVAC system sizing and selection based on ACCA Manual S or per exceptions provided in Section R403.7 Mandatory Requirements (five pages) Required 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)

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: 190626 Oquinn Street: City, State, Zip: LAke City, FL, Owner: Oquinn Res Design Location: FL, Gainesville		Builder Name: Edgley Const. Permit Office: Permit Number: Jurisdiction: County: Columbia (Florida Clima	ate Zone 2)
1. New construction or existing 2. Single family or multiple family 3. Number of units, if multiple family 4. Number of Bedrooms 5. Is this a worst case? 6. Conditioned floor area above grade (ft²) Conditioned floor area below grade (ft²) 7. Windows(406.1 sqft.) Description a. U-Factor: Dbl, U=0.30 SHGC: SHGC=0.20 b. U-Factor: N/A SHGC: c. U-Factor: N/A SHGC: d. U-Factor: N/A	New (From Plans) Single-family 1 3 Yes 2384 0 Area 406.11 ft² ft² ft²	9. Wall Types (2685.8 sqft.) a. Frame - Wood, Exterior b. Frame - Wood, Adjacent c. N/A d. N/A 10. Ceiling Types (2384.0 sqft.) a. Roof Deck (Unvented) b. N/A c. N/A 11. Ducts a. Sup: Attic, Ret: Attic, AH: Garage 12. Cooling systems a. Central Unit 13. Heating systems a. Electric Heat Pump	Insulation Area R=19.0 2305.80 ft² R=19.0 380.00 ft² R= ft² R= ft² Insulation Area R=22.0 2384.00 ft² R= ft² R= ft² R ft² 6 476.8 kBtu/hr Efficiency 46.0 SEER:15.00
SHGC: Area Weighted Average Overhang Deptl Area Weighted Average SHGC: 8. Floor Types (2384.0 sqft.) a. Slab-On-Grade Edge Insulation b. N/A c. N/A	1: 6.894 ft. 0.200 Insulation Area R=0.0 2384.00 ft ² R= ft ² R= ft ²	14. Hot water systems a. Electric b. Conservation features None 15. Credits	46.0 HSPF:8.80 Cap: 50 gallons
Glass/Floor Area: 0.170	Total Proposed Modifie Total Baseline		PASS
I hereby certify that the plans and specthis calculation are in compliance with tode. PREPARED BY: Evan Beamsley DATE: 2019-06-14 I hereby certify that this building, as deswith the Florida Energy Code. OWNER/AGENT: DATE:	he Florida Energy	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 7.00 ACH50 (R402.4.1.2).

FORM R405-2017

INPUT SUMMARY CHECKLIST REPORT

				PROJEC	т							
Title: Building Type: Owner Name: # of Units: Builder Name: Permit Office: Jurisdiction: Family Type: New/Existing: Comment:	190626 Oquinn User Oquinn Res 1 Edgley Const. Single-family New (From Plan		Bedrooms: Conditione Total Storie Worst Case Rotate Ang Cross Veni Whole Hou	d Area: 2 es: 1 e: Y gle: 1 tilation:	384		Lot # Block PlatB Stree Coun	d/Subdivis Jook: et:	sion: F	ot Information digh Point Factorial Columbia Ake City,		
	· · · · · · · · · · · · · · · · · · ·			CLIMAT	E							
√ Des	ign Location	TMY Site		Des 97.5	ign Temp % 2.5 %		sign Tem r Summ		eating ree Day	Design /s Moisture		Temp inge
FL,	Gainesville	FL_GAINESVILLE	_REGI	32	92	70	75	1:	305.5	51	Ме	edium
				BLOCK	S							
Number	Name	Area	Volume									
1	Block1	2384	23840									
				SPACES	S							
Number	Name	Area	Volume F	Kitchen O	ccupants	Bedroor	ns li	nfil ID	Finishe	d Cool	ed	Heat
1	Main	2384	23840	Yes	6	3	1		Yes	Yes		Yes
				FLOOR	S							
√ #	Floor Type	Space	Perir	neter R	-Value	Area		-		Tile Wo	od Ca	rpet
1 Sla	b-On-Grade Edge	Insulatio Ma	ain 269	ft	0	2384 ft²				0.3 0.3	3 0).4
				ROOF		· · · ·	<u>-</u>					
√ #	Туре	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pito (de
1	Gable or shed	Metal	2666 ft²	596 ft²	Dark	N	0.9	No	0.9	No	22	26.
				ATTIC								
√ #	Туре	Ventila	ation	Vent Ratio (1 in)	Area	RBS	IRO	cc			
1	Full attic	Unve	nted	0		2384 ft²	N	١	1			
				CEILING								_
	Ceiling Type		Space	R-Value	Ins T	vne	Area	Fram	ning Fra	c Truss	Type	
V #	Celling Type		Оресс	11 10100	1110 1	7					. 7	

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						WA	LLS								
V #	Ornt	Adjace To	nt Wall	Type	Space	Cavity R-Value	Wic Ft	lth Jn	H	leight In	Area	Sheathing R-Value		Solar Absor	Below Grade%
1		Exterior		ne - Wood	Main	19	8	6	10	111	85.0 ft²	R-value	0.23	0.75	0
2	W=>NE	Exterior	Fran	ne - Wood	Main	19	6		10		60.0 ft²		0.23	0.75	0
3	N=>SE	Exterior	Fran	ne - Wood	Main	19	11		10		110.0 ft ²		0.23	0.75	0
4	E=>SW	Exterior	Fran	me - Wood	Main	19	38		10		380.0 ft²		0.23	0.75	0
5	S=>NW	Exterior	Fran	me - Wood	Main	19	13	10	10		138.3 ft²		0.23	0.75	0
6	E=>SW	Exterior	Fran	ne - Wood	Main	19	16	9	10		167.5 ft²		0.23	0.75	0
7	N=>SE	Exterior	Fran	ne - Wood	Main	19	4		10	0	40.0 ft ²		0.23	0.75	0
8	W=>NE	Exterior	Fran	ne - Wood	Main	19	15		10		150.0 ft²		0.23	0.75	0
9	S=>NW	Exterior	Fran	ne - Wood	Main	19	13	6	10		135.0 ft²		0.23	0.75	0
10	E=>SW	Exterior	Fran	ne - Wood	Main	19	2		10		20.0 ft ²		0.23	0.75	0
11	S=>NW	Exterior	Fran	ne - Wood	Main	19	6		10		60.0 ft ²		0.23	0.75	0
12	W=>NE			ne - Wood	Main	19	2		10		20.0 ft ²		0.23	0.75	0
	S=>NW		Fran	ne - Wood	Main	19	23	3	10		232.5 ft ²		0.23	0.75	0
	W=>NE			ne - Wood	Main	19	15		10		150.0 ft²		0.23	0.75	0
15				ne - Wood	Main	19	6		10		60.0 ft²		0.23	0.75	0
	W=>NE			ne - Wood	Main	19	16	9	10		167.5 ft²		0.23	0.75	0
17	S=>NW	Exterior	Fran	ne - Wood	Main	19	6		10		60.0 ft ²		0.23	0.75	0
18	W=>NE	Exterior	Fran	ne - Wood	Main	19	15		10		150.0 ft²		0.23	0.75	0
19	N=>SE			ne - Wood	Main	19	12		10		120.0 ft²		0.23	0.75	0
20	N=>SE			ne - Wood	Main	19	21		10		210.0 ft ²		0.23	0.75	0
21	W=>NE	_	Fran	me - Wood	Main	19	17		10		170.0 ft²		0.23	0.75	0
					· · · · · · · · · · · · · · · · · · ·	DO	ORS								
$\sqrt{}$	#	Ornt		Door Type	Space	 .		Storms	s	U-Valı	40	Width	Height		Area
								•••			Ft	<u>In</u>		ln .	
	1	N=>SE		Insulated	Main			None		.4	1		6	8	5.7 ft²
	2	E=>SV		Insulated	Main			None		.4	1		8		8 ft²
	3	S=>NV		Insulated	Main			None		.4	1		8		8 ft²
	4	E=>SV		Insulated	Main			None		.4	4		8		32 ft²
	5	W=>NI		Insulated	Main			None		.4	2		8		16 ft²
	6 7	W=>NI N=>SE		Insulated Insulated	Main Main			None None		.4 .4	2		7 6		14 ft² 20 ft²
	,	N-20	-	Ilisuiated	IVIAIII				-	.4				0	20 11-
				Orientation	shown is the	WIND entered orie			nang	ed to W	orst Case.				
/		Wall	_								Over	•	,		
V			Frame	Panes	NFRC	U-Factor		lm	•	Area		Separation	Int Sha		Screening
		SE 1	Metal	Low-E Double	Yes	0.3	0.2	N		13.3 ft²		2 ft 0 in	None		None
		SW 4	Metal	Low-E Double	Yes	0.3	0.2	N		40.0 ft ²		1 ft 6 in	None		None
		SW 4	Metal	Low-E Double	Yes	0.3	0.2	N		16.0 ft ²		1 ft 6 in	None		None
		NW 5	Metal	Low-E Double	Yes	0.3	0.2	N		16.0 ft ²	32 ft 9 in		None		None
		SW 6	Metal	Low-E Double	Yes	0.3	0.2	N			13 ft 10 in		None		None
		NE 8	Metal	Low-E Double	Yes	0.3	0.2	N		32.0 ft ²			None		None
	7 S=>	NW 9	Metal	Low-E Double	Yes	0.3	0.2	N		20.0 ft ²	1 ft 0 in	4 # 0 :	None		None

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				Orientati	ion shown is t		DOWS	:>) char	naed to W	orst Case.				
\checkmark	# C	Wall Ornt ID	Frame	Panes	NFRC	U-Factor	· · · · · · · · · · · · · · · · · · ·	Imp	Area	Ove	rhang Separatio	n Int Sha	de	Screenin
		>NW 11	Metal	Low-E Double		0.3	0.2	N	6.0 ft ²	1 ft 0 in	1 ft 6 in	None		None
		>NW 13	Metal	Low-E Double		0.3	0.2	N	17.3 ft²	1 ft 0 in	1 ft 6 in	None		None
		>NW 13	Metal	Low-E Double		0.3	0.2	N	6.0 ft²	1 ft 0 in	1 ft 6 in	None		None
		>NW 13	Metal	Low-E Double		0.3	0.2	N	12.7 ft²	1 ft 0 in	1 ft 6 in	None		None
		>NE 14	Metal	Low-E Double		0.3	0.2	N	39.1 ft²	1 ft 0 in	4 ft 0 in	None		None
	13 W=	>NE 16	Metal	Low-E Double	e Yes	0.3	0.2	N	28.0 ft ²	9 ft 0 in	3 ft 0 in	None)	None
	14 W=	>NE 16	Metal	Low-E Double	e Yes	0.3	0.2	N	18.0 ft ²	9 ft 0 in	1 ft 0 in	None	9	None
		>NE 18	Metal	Low-E Double		0.3	0.2	N	39.1 ft²	1 ft 0 in		None		None
		>SE 19	Metal	Low-E Double		0.3	0.2	N	12.7 ft²		1 ft 6 in	None		None
	17 E=	>SW 6	Metal	Low-E Double	e Yes	0.3	0.2	N	26.0 ft ²	13 ft 10 ir	1 ft 0 in	None)	None
<u> </u>	······································					GA	RAGE			-				
$\sqrt{}$	#	Floo	r Area	Cei	ling Area	Exposed	Wall Perim	eter	Avg. Wa	all Height	Ехро	sed Wall Ins	ulation	
	1	48	3 ft²	4	183 ft²		50 ft		10) ft		1		
						INFILT	RATION							
s	Scope	M	lethod		SLA	CFM 50	ELA	Eq	ıLA	ACH	A	CH 50		
Who	olehouse	Propo	sed AC	H(50)	.000445	2781.3	152.69	287	7.16	.183		7		
_				<u> </u>	· · · · · · · · · · · · · · · · · · ·	HEATIN	G SYSTE	М						
V	#	System T	уре		Subtype		Ef	ficiency	(Capacity		E	Block	Ducts
	1	Electric H	eat Pun	np/	None		H	SPF:8.8	46	6 kBtu/hr			1	sys#1
						COOLIN	G SYSTE	EM						
$\sqrt{}$	#	System T	ype		Subtype		Effi	ciency	Capaci	ity A	ir Flow	SHR E	Block	Ducts
	1	Central U	nit/		None		SE	ER: 15	46 kBtu	/hr 13	80 cfm	0.75	1	sys#1
	: -				1	HOT WAT	ER SYS	ГЕМ						
$\sqrt{}$	#	System	Туре	SubType	Location	EF	Сар		Use	SetPr	it	Conse	vation	
	1	Electric		None	Garage	0.95	50 gal		60 gal	120 de	g	No	ne	
					SOL	AR HOT V	VATER S	YSTE	М					
\vee	FSEC Cert		oany Na	me		System Mod	del#	Cn	llector Mo		Collector Area	Storage Volume		FEF
						2,0001111100						· oranic		

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1 01(1011(400-2017		OHEOMEIGH MEHOM

						DUCTS								
\checkmark	#		ıpply R-Value Area	Loca	Return tion Area	Leaka	ge Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HV/ Heat	AC # Cool
	1	Attic	6 476.8	ft Att	ic 119.2 f	t Default	Leakage	Garage	(Default)	(Default)			1	1
					TEM	PERATU	RES							
Programa	able Them	nostat: Y			Ceiling Fan	s:							· -	
Cooling Heating Venting	Jan X Jan Jan	[] Fel [X] Fel [] Fel	b IXI Mar	Apr Apr (X) Apr	[] May [] May [] May	[X] Jun Jun Jun	[X] Jul Jul Jul	[X] Aug [] Aug [] Aug	[X] Sep [] Sep [] Sep	[X] Oc	ct ct ct	Nov X Nov X Nov	$[\times]$	Dec Dec Dec
Thermostar Schedule T		: HERS 2	2006 Reference	2	3 4	5	Ho 6	urs 7	8	9	10	11	1	2
Cooling (W	D)	AM PM	78 80	78 80	78 78 78 78	78 78	78 78	78 78	78 78	80 78	80 78	80 78	8	30 '8
Cooling (W	EH)	AM PM	78 78	78 78	78 78 78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	7	'8 '8
Heating (W	'D)	AM PM	66 68	66 68	66 66 68 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	6	8 6
Heating (W	EH)	AM PM	66 68	66 68	66 66 68 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	6	8 6
			· · · · · · · ·			MASS								
Ма	ss Type			Area		Thickness	F	Furniture Fra	ction	Spa	ce			
De	fault(8 lbs/	/sq.ft.		0 ft²		0 ft		0.3		M	lain			

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 100

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. Single-family or multiple-family	2. Single-family	a) Supply ducts R 6.0 b) Return ducts R 6.0 c) AHU location Garage
3. No. of units (if multiple-family)	31	C) Al 10 location Galage
4. Number of bedrooms	43	13. Cooling system: Capacity 46.0 a) Split system SEER
5. Is this a worst case? (yes/no)	5. <u>Yes</u>	b) Single package SEER c) Ground/water source SEER/COP
6. Conditioned floor area (sq. ft.)	62384	d) Room unit/PTAC EER
7. Windows, type and areaa) U-factor:(weighted average)b) Solar Heat Gain Coefficient (SHGC)c) Area	7a. 0.300 7b. 0.200 7c. 406.1	14. Heating system: Capacity 46.0 a) Split system heat pump HSPF b) Single package heat pump HSPF
8. Skylights	9.0 NIA	c) Electric resistance COP
a) U-factor:(weighted average)b) Solar Heat Gain Coefficient (SHGC)	8a. <u>NA</u> 8b. <u>NA</u>	d) Gas furnace, natural gas AFUE e) Gas furnace, LPG AFUE f) Other 8.80
9. Floor type, insulation level:		,
a) Slab-on-grade (R-value)	9a0.0	45 141 4 17 17
b) Wood, raised (R-value)	9b	15. Water heating system
c) Concrete, raised (R-value)	9c	a) Electric resistance EF 0.95 b) Gas fired, natural gas EF
Wall type and insulation: A. Exterior:		c) Gas fired, LPG
Nood frame (Insulation R-value)	1001 100	e) Dedicated heat pump with tank EF
2. Masonry (Insulation R-value)	10A1. <u>19.0</u> 10A2	f) Heat recovery unit HeatRec%
B. Adjacent:	10A2	g) Other
Nood frame (Insulation R-value)	10B1. <u>19.0</u>	g) Other
Masonry (Insulation R-value)	10B2	
		16. HVAC credits claimed (Performance Method)
11. Ceiling type and insulation level		a) Ceiling fans
a) Under attic	11a0.0	b) Cross ventilation No
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>No</u>	e) Multizone heating credit
		f) Programmable thermostat Yes
*Label required by Section R303.1.3 of the Flo	rida Building Code, Enerç	gy Conservation, if not DEFAULT.
I certify that this home has complied with the F saving features which will be installed (or exce display card will be completed based on install	eded) in this home before	e final inspection. Otherwise, a new EPL
Builder Signature:		Date:
Address of New Home		City/FL Zin: Ake City FL

Florida Building Code, Energy Conservation, 6th Edition (2017) Mandatory Requirements for Residential Performance, Prescriptive and ERI Methods

ΑE	DDRESS:	Permit Number:
	LAke (City , FL ,
MAN	IDATORY REQ	UIREMENTS See individual code sections for full details.
\checkmark		SECTION R401 GENERAL
	card be completed and 553.9085, Florida State residential buildings. T dwelling unit. The build	mance Level (EPL) display card (Mandatory). The building official shall require that an energy performance level (EPL) display certified by the builder to be accurate and correct before final approval of the building for occupancy. Florida law (Section ites) requires the EPL display card to be included as an addendum to each sales contract for both presold and nonpresold he EPL display card contains information indicating the energy performance level and efficiencies of components installed in a ing official shall verify that the EPL display card completed and signed by the builder accurately reflects the plans and d to demonstrate code compliance for the building. A copy of the EPL display card can be found in Appendix RD.
	R402.4 Air leakage (M Sections R402.4.1	
		on: Dwelling units of R-2 Occupancies and multiple attached single family dwellings shall be permitted to with Section C402.5.
		ng thermal envelorms building thermal envelope shall comply with Sections R402.4.1.1 and R402.4.1.2. nods between dissimilar materials shall allow for differential expansion and contraction.
	the manufacture	llation. The components of the building thermal envelope as listed in Table R402.4.1.1 shall be installed in accordance with 's instructions and the criteria listed in Table R402.4.1.1, as applicable to the method of construction. Where required by the approved third party shall inspect all components and verify compliance.
	changes per hou accordance with individuals as de an approved thire	ng. The building or dwelling unit shall be tested and verified as having an air leakage rate not exceeding seven air r in Climate Zones 1 and 2, and three air changes per hour in Climate Zones 3 through 8. Testing shall be conducted in ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 pascals). Testing shall be conducted by either fined in Section 553.993(5) or (7), Florida Statutes, or individuals licensed as set forth in Section 489.105(3)(f), (g) or (i) or d party. A written report of the results of the test shall be signed by the party conducting the test and provided to the code hall be performed at any time after creation of all penetrations of the building thermal envelope.
		Testing is not required for additions, alterations, renovations, or repairs, of the building thermal envelope of existing in the new construction is less than 85 percent of the building thermal envelope.
	other infiltration of 2. Dampers incluinfiltration contro 3. Interior doors, 4. Exterior doors 5. Heating and c	ws and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or control measures. In measures. If installed at the time of the test, shall be open. If or continuous ventilation systems and heat recovery ventilators shall be closed and sealed. Sooling systems, if installed at the time of the test, shall be turned off. Sturn registers, if installed at the time of the test, shall be fully open.
	tight-fitting doors on fac	New wood-burning fireplaces shall have tight-fitting flue dampers or doors, and outdoor combustion air. Where using ctory-built fireplaces listed and labeled in accordance with UL 127, the doors shall be tested and listed for the tight-fitting doors on masonry fireplaces, the doors shall be listed and labeled in accordance with UL 907.
	square foot (1.5 L/s/m2	air leakageNindows, skylights and sliding glass doors shall have an air infiltration rate of no more than 0.3 cfm per (2), and swinging doors no more than 0.5 cfm per square foot (2.6 L/s/m2), when tested according to NFRC 400 or 11/1.S.2/A440 by an accredited, independent laboratory and listed and labeled by the manufacturer.
	Exception:	Site-built windows, skylights and doors.

MANDATORY REQUIREMENTS - (Continued) R402.4.4 Rooms containing fuel-burning appliances. In Climate Zones 3 through 8, where open combustion air ducts provide combustion air to open combustion fuel burning appliances, the appliances and combustion air opening shall be located outside the building thermal envelope or enclosed in a room, isolated from inside the thermal envelope. Such rooms shall be sealed and insulated in accordance with the envelope requirements of Table R402.1.2, where the walls, floors and ceilings shall meet not less than the basement wall R-value requirement. The door into the room shall be fully gasketed and any water lines and ducts in the room insulated in accordance with Section R403. The combustion air duct shall be insulated where it passes through conditioned space to a minimum of R-8. Exceptions: 1. Direct vent appliances with both intake and exhaust pipes installed continuous to the outside. Fireplaces and stoves complying with Section R402.4.2 and Section R1006 of the Florida Building Code, Residential. R402.4.5 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 E283 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. **SECTION R403 SYSTEMS** R403.1 Controls. 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. All ducts, air handlers, filter boxes and building cavities that form the primary air containment passageways for air distribution systems shall be considered ducts or plenum chambers, shall be constructed and sealed in accordance with Section C403.2.9.2 of the Commercial Provisions of this code and shall be shown to meet duct tightness criteria below. Duct tightness shall be verified by testing in accordance with ANSI/RESNET/ICC 380 by either individuals as defined in Section 553.993(5) or (7), Florida Statutes, or individuals licensed as set forth in Section 489.105(3)(f), (g) or (i), Florida Statutes, to be "substantially leak free" in accordance with Section R403.3.3. R403.3.2.1 Sealed air handler. Air handlers shall have a manufacturer's designation for an air leakage of no more than 2 percent of the design airflow rate when tested in accordance with ASHRAE 193. R403.3.3 Duct testing (Mandatory). Ducts shall be pressure tested to determine air leakage by one of the following methods: Rough-in test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the system, including the manufa air handler enclosure if installed at the time of the test. All registers shall be taped or otherwise sealed during the test. Postconstruction test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the entire system, including the manufacturer's air handler enclosure. Registers shall be taped or otherwise sealed during the test. **Exceptions:** 1. A duct air leakage test shall not be required where the ducts and air handlers are located entirely within the building thermal envelope. 2. Duct testing is not mandatory for buildings complying by Section 405 of this code. A written report of the results of the test shall be signed by the party conducting the test and provided to the code official. R403.3.5 Building cavities (Mandatory). Building framing cavities shall not be used as ducts or plenums. R403.4 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. R403.4.1 Protection of plping insulation. Piping insulation exposed to weather shall be protected from damage, including that caused by sunlight, moisture, equipment maintenance and wind, and shall provide shielding from solar radiation that can cause degradation of the material. Adhesive tape shall not be permitted. R403.5.1 Heated water circulation and temperature maintenance systems (Mandatory)Heated water circulation systems shall be in accordance with Section R403.5.1.1. Heat trace temperature maintenance systems shall be in accordance with Section R403.5.1.2. Automatic controls, temperature sensors and pumps shall be accessible. Manual controls shall be readily accessible. R403.5.1.1 Circulation systems. Heated water circulation systems shall be provided with a circulation pump. The system return pipe shall be a dedicated return pipe or a cold water supply pipe. Gravity and thermosiphon circulation systems shall be prohibited. Controls for circulating hot water system pumps shall start the pump based on the identification of a demand for hot water within the occupancy. The controls shall automatically turn off the pump when the water in the circulation loop is at the desired temperature and when there is no demand for hot water.

times when heated water is used in the occupancy.

R403.5.1.2 Heat trace systems. Electric heat trace systems shall comply with IEEE 515.1 or UL 515. Controls for such systems shall automatically adjust the energy input to the heat tracing to maintain the desired water temperature in the piping in accordance with the

MA	ANDATORY REQUIREMENTS - (Continued)
	R403.5.5 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.
	R403.5.6 Water heater efficiencies (Mandatory).
	R403.5.6.1.1 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).
	R403.5.6.1.2 Shut down. A separate switch or a clearly marked circuit breaker shall be provided to permit the power supplied to electric service systems to be turned off. A separate valve shall be provided to permit the energy supplied to the main burner(s) of combustion types of service water-heating systems to be turned off.
	R403.5.6.2 Water-heating equipment. Water-heating equipment installed in residential units shall meet the minimum efficiencies of Table C404.2 in Chapter 4 of the Florida Building Code, Energy Conservation, Commercial Provisions, for the type of equipment installed. Equipment used to provide heating functions as part of a combination system shall satisfy all stated requirements for the appropriate water-heating category. Solar water heaters shall meet the criteria of Section R403.5.6.2.1.
	R403.5.6.2.1 Solar water-heating systems. Solar systems for domestic hot water production are rated by the annual solar energy factor of the system. The solar energy factor of a system shall be determined from the Florida Solar Energy Center Directory of Certified Solar Systems. Solar collectors shall be tested in accordance with ISO Standard 9806, Test Methods for Solar Collectors, and SRCC Standard TM-1, Solar Domestic Hot Water System and Component Test Protocol. Collectors in installed solar water-heating systems should meet the following criteria:
	 Be installed with a tilt angle between 10 degrees and 40 degrees of the horizontal; and Be installed at an orientation within 45 degrees of true south.
	R403.6 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 including: Natural, Infiltration or Mechanical means. Outdoor air intakes and exhausts shall have automatic or gravity dampers that close when the ventilation system is not operating.
	R403.6.1 Whole-house mechanical ventilation system fan efficacy. When installed to function as a whole-house mechanical ventilation system, fans shall meet the efficacy requirements of Table R403.6.1.
	Exception: Where whole-house mechanical ventilation fans are integral to tested and listed HVAC equipment, they shall be powered by an electronically commutated motor.
	R403.6.2 Ventilation air. Residential buildings designed to be operated at a positive indoor pressure or for mechanical ventilation shall meet the following criteria:
	 The design air change per hour minimums for residential buildings in ASHRAE 62.2, Ventilation for Acceptable Indoor Air Quality, shall be the maximum rates allowed for residential applications.
	 No ventilation or air-conditioning system make-up air shall be provided to conditioned space from attics, crawlspaces, attached enclosed garages or outdoor spaces adjacent to swimming pools or spas.
	If ventilation air is drawn from enclosed space(s), then the walls of the space(s) from which air is drawn shall be insulated to a minimum of R-11 and the ceiling shall be insulated to a minimum of R-19, space permitting, or R-10 otherwise.
	R403.7 Heating and cooling equipment (Mandatory). R403.7.1 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 that affect equipment sizing. System sizing calculations shall not include loads created by local intermittent mechanical ventilation such as standard kitchen and bathroom exhaust systems. New or replacement heating and cooling equipment shall have an efficiency rating equal to or greater than the minimum required by federal law for the geographic location where the equipment is installed.

TABLE R403.6.1 WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM FAN EFFICACY

FAN LOCATION	AIRFLOW RATE MINIMUM (CFM)	MINIMUM EFFICACY ^a (CFM/WATT)	AIRFLOW RATE MAXIMUM (CFM)
Range hoods	Any	2.8 cfm/watt	Any
In-line fan	Any	2.8 cfm/watt	Any
Bathroom, utility room	10	1.4 cfm/watt	<90
Bathroom, utility room	90	2.8 cfm/watt	Any

For SI: 1 cfm = 28.3 L/min.

a. When tested in accordance with HVI Standard 916

	NDATODY DECUMPENTO (Continued)
MA	NDATORY REQUIREMENTS - (Continued)
	R403.7.1.1 Cooling equipment capacity. Cooling only equipment shall be selected so that its total capacity is not less than the calculated total load but not more than 1.15 times greater than the total load calculated according to the procedure selected in Section 403.7, or the closest available size provided by the manufacturer's product lines. The corresponding latent capacity of the equipment shall not be less than the calculated latent load.
	The published value for AHRI total capacity is a nominal, rating-test value and shall not be used for equipment sizing. Manufacturer's expanded performance data 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 temperatures 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 multiple-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 multiple-family units, the capacity of equipment may be sized in accordance with good design practice.
	R403.7.1.2 Heating equipment capacity.
	R403.7.1.2.1 Heat pumps. Heat pump sizing shall be based on the cooling requirements as calculated according to Section R403.7.1.1, and the heat pump total cooling capacity shall not be more than 1.15 times greater than the design cooling load even if the design heating load is 1.15 times greater than the design cooling load.
	R403.7.1.2.2 Electric resistance furnaces. Electric resistance furnaces shall be sized within 4 kW of the design requirements calculated according to the procedure selected in Section R403.7.1.
	R403.7.1.2.3 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 R403.7.1.
	R403.7.1.3 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.
	R403.8 Systems serving multiple dwelling units (Mandatory). Systems serving multiple dwelling units shall comply with Sections C403 and C404 of the IECC—Commercial Provisions in lieu of Section R403.
	R403.9 Snow melt and ice 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 50°F (10°C), and no precipitation is falling and an automatic or manual control that will allow shutoff when the outdoor temperature is above 40°F (4.8°C).
	R403.10 Pools and permanent spa energy consumption (Mandatory). be in accordance with Sections R403.10.1 through R403.10.5. The energy consumption of pools and permanent spas shall
	R403.10.1 Heaters. The electric power to heaters shall be controlled by a readily accessible on-off switch that is an integral part of the heater mounted on the exterior of the heater, or external to and within 3 feet (914 mm) of the heater. Operation of such switch shall not change the setting of the heater thermostat. Such switches shall be in addition to a circuit breaker for the power to the heater. Gas-fired heaters shall not be equipped with continuously burning ignition pilots.
	R403.10.2 Time switches. Time switches or other control methods that can automatically turn off and on according to a preset schedule shall be installed for heaters and pump motors. Heaters and pump motors that have built-in time switches shall be in compliance with this section.
	Exceptions:
	 Where public health standards require 24-hour pump operation. Pumps that operate solar- and waste-heat-recovery pool heating systems. Where pumps are powered exclusively from on-site renewable generation.
	R403.10.3 Covers. Outdoor heated swimming pools and outdoor permanent spas shall be equipped with a vapor-retardant cover on or at
Ш	the water surface or a liquid cover or other means proven to reduce heat loss.
	Exception: Where more than 70 percent of the energy for heating, computed over an operation season, is from site-recovered energy, such as from a heat pump or solar energy source, covers or other vapor-retardant means shall not be required. R403.10.4 Gas- and oil-fired pool and spa heaters. All gas- and oil-fired pool and spa 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 or LP gas shall not have continuously burning pilot lights.

	R403.10.5 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.
	R403.11 Portable spas (Mandatory) e energy consumption of electric-powered portable spas shall be controlled by the requirements of APSP-14.
	SECTION R404
El	LECTRICAL POWER AND LIGHTING SYSTEMS
	R404.1 Lighting equipment (Mandatory). Not less than 75 percent of the lamps in permanently installed lighting fixtures shall be high-efficacy lamps or not less than 75 percent of the permanently installed lighting fixtures shall contain only high-efficacy lamps.
	Exception: Low-voltage lighting.

R404.1.1 Lighting equipment (Mandatory)Fuel gas lighting systems shall not have continuously burning pilot lights.

2017 - AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

TABLE 402.4.1.1 AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

	AIR BARRIER AND INSULATION INSPECTIO	TO COMPONENT CRITERIA	
Owner:	LAke City , FL , Permi	er Name: Edgley Const. t Office: t Number: liction:	CHECK
COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA	l
General requirements	A continuous air barrier shall be installed in the building envelop The exterior thermal envelope contains a continuous air barrier. Breaks or joints in the air barrier shall be sealed.	e. 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 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.	the The insulation in any dropped ceiling/soffit shall be aligned with the air barrier.	
Walls	The junction of the foundation and sill plate shall be sealed. The junction of the top plate and the top of exterior walls shall be sealed. Knee walls shall be sealed.	Cavities within corners and headers of frame walls shall be insulated by completely filling the cavity with a material having a thermal resistance of R-3 per inch minimum. Exterior thermal envelope insulation for framed walls shall be installed in substantial contact and continuous alignment with the air barrier.	
Windows, skylights and doors	The space between window/door jambs and framing, and skylights and framing shall be sealed.		
Rim joists	Rim joists shall include the air barrier.	Rim joists shall be insulated.	
Floors (including above-garage and cantilevered floors)	The air barrier shall be installed at any exposed edge of insulation.	Floor framing cavity insulation shall be installed to maintain permanent contact with the underside of subfloor decking, or floor framing cavity insulation shall be permitted to be in contact with the top side of sheathing, or continuous insulation installed on the underside of floor framing and extends from the bottom to the top of all perimeter floor framing members.	
Crawl space walls	Exposed earth in unvented crawl spaces shall be covered with a Class I vapor retarder with overlapping joints taped.	Where provided instead of floor insulation, insulation shall be permanently attached to the crawlspace	
Shafts, penetrations	Duct shafts, utility penetrations, and flue shafts opening 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 conditione	ed spaces.	
Recessed lighting	Recessed light fixtures installed in the building thermal envelope shall be sealed to the drywall.	Recessed light fixtures installed in the building thermal envelope shall be air tight and IC rated.	
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	The air barrier installed at exterior walls adjacent to showers and tubs shall separate them from the showers and tubs.		
Electrical/phone box or exterior walls	The air barrier shall be installed behind electrical or communicat boxes or air-sealed boxes shall be installed.	ion	
HVAC register boots	HVAC register boots that penetrate building thermal envelope sl be sealed to the sub-floor or drywall.	nall	
Concealed sprinklers	When required to be sealed, concealed fire sprinklers shall only sealed in a manner that is recommended by the manufacturer. Caulking or other adhesive sealants shall not be used to fill void between fire sprinkler cover plates and walls or ceilings.		

between fire sprinkler cover plates and walls or ceilings.

a. In addition, inspection of log walls shall be in accordance with the provisions of ICC-400.

Envelope Leakage Test Report (Blower Door Test)

Residential Prescriptive, Performance or ERI Method Compliance 2017 Florida Building Code, Energy Conservation, 6th Edition

	Jurisdiction:	Permit #:							
Job	Job Information								
Bui	lder: Edgley Const. Community:	Lot: 5							
Add	dress:								
City	r: LAke City Sta	te: FL Zip:							
Aiı	Air Leakage Test Results Passing results must meet either the Performance, Prescriptive, or ERI Method								
	PRESCRIPTIVE METHOD-The building or dwelling unit shall be to changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in C	ested and verified as having an air leakage rate of not exceeding 7 air limate Zones 1 and 2.							
the	PERFORMANCE or ERI METHOD-The building or dwelling unit so selected ACH(50) value, as shown on Form R405-2017 (Performant ACH(50) specified on Form R405-2017-Energy C	shall be tested and verified as having an air leakage rate of not exceeding ce) or R406-2017 (ERI), section labeled as infiltration, sub-section ACH50. Calc (Performance) or R406-2017 (ERI): 7.000							
x 60 ÷ 23840 = Method for calculating building vo CFM(50) Building Volume ACH(50) Retrieved from architectural pl Code software calculated									
	When ACH(50) is less than 3, Mechanical Ventilation installation Field measured and calculated must be verified by building department.								
Te:	R402.4.1.2 Testing. Testing shall be conducted in accordance with ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 Pascals). Testing shall be conducted by either individuals as defined in Section 553.993(5) or (7), Florida Statues.or individuals licensed as set forth in Section 489.105(3)(f), (g), or (i) or 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.								
1. coi 2.	ntrol measures. Dampers including exhaust, intake, makeup air, back draft and flue da	I, but not sealed, beyond the intended weatherstripping or other infiltration ampers shall be closed, but not sealed beyond intended infiltration control							
3. 4. 5.	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. 6. Supply and return registers, if installed at the time of the test, shall be fully open.								
Т	Testing Company								
C	Company Name: Phone: Phone:								
	I hereby verify that the above Air Leakage results are in accordance with the 2017 6th Edition Florida Building Code Energy Conservation requirements according to the compliance method selected above.								
s	ignature of Tester:	Date of Test:							
F	Printed Name of Tester:								
L	License/Certification #: Issuing Authority:								

Residential System Sizing Calculation

Summary

Oquinn Res

Project Title: 190626 Oquinn

LAke City, FL

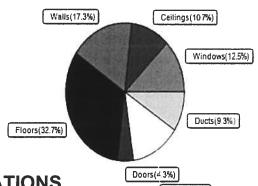
2019-06-14

Location for weather data: Gainesville, FL - Defaults: Latitude(29.7) Altitude(152 ft.) Temp Range(M)							
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(51gr.)							
Winter design temperature(TMY3	99%) 30	F	Summer design temperature(TMY	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	38834	Btuh	Total cooling load calculation	29406	Btuh		
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh		
Total (Electric Heat Pump)	118.5	46000	Sensible (SHR = 0.75)	144.8	34500		
Heat Pump + Auxiliary(0.0kW)	118.5	46000	Latent	205.9	11500		
			Total (Electric Heat Pump)	156.4	46000		

WINTER CALCULATIONS

Winter Heating Load (for 2384 sqft)

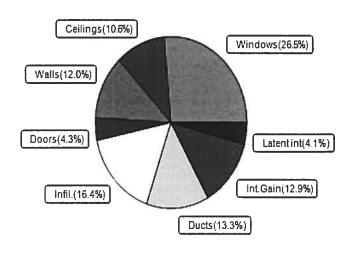
Load component			Load	
Window total	406	sqft	4873	Btuh
Wall total	2175	sqft	6723	Btuh
Door total	105	sqft	1675	Btuh
Ceiling total	2384	sqft	4164	Btuh
Floor total	2384	sqft	12697	Btuh
Infiltration	116	cfm	5094	Btuh
Duct loss			3609	Btuh
Subtotal			38834	Btuh
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			38834	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 2384 sqft)

Load component			Load	
Window total	406	sqft	7789	Btuh
Wall total	2175	sqft	3530	Btuh
Door total	105	sqft	1256	Btuh
Ceiling total	2384	sqft	3123	Btuh
Floor total			0	Btuh
Infiltration	87	cfm	1815	Btuh
Internal gain			3780	Btuh
Duct gain			2529	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Blower Load			0	Btuh
Total sensible gain			23821	Btuh
Latent gain(ducts)			1374	Btuh
Latent gain(infiltration)			3011	Btuh
Latent gain(ventilation)	0	Btuh		
Latent gain(internal/occup	1200	Btuh		
Total latent gain			5585	Btuh
TOTAL HEAT GAIN			29406	Btuh





EnergyGauge® System Sizing
PREPARED BY: Evan Beamsley
DATE: 2019-06-14

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Oquinn Res

LAke City, FL

Project Title: 190626 Oquinn Building Type: User

2019-06-14

Reference City: Gainesville, FL (Defaults) Winter Temperature Difference: 40.0 F (TMY3 99%) This calculation is for Worst Case. The house has been rotated 45 degrees.

Component Loads for Whole House

Window	Panes/Type	Frame U	Orientation A	Area(sqft) X	HTM=	Load
1	2, NFRC 0.20	Metal 0.30	NE	13.3	12.0	160 Btuh
2	2, NFRC 0.20	Metal 0.30	SE	40.0	12.0	480 Btuh
3	2, NFRC 0.20	Metal 0.30	SE	16.0	12.0	192 Btuh
4	2, NFRC 0.20	Metal 0.30	SW	16.0	12.0	192 Btuh
5	2, NFRC 0.20	Metal 0.30	SE	64.0	12.0	768 Btuh
6	2, NFRC 0.20	Metal 0.30	NW	32.0	12.0	384 Btuh
7	2, NFRC 0.20	Metal 0.30	SW	20.0	12.0	240 Btuh
8	2, NFRC 0.20	Metal 0.30	SW	6.0	12.0	72 Btuh
9	2, NFRC 0.20	Metal 0.30	SW	17.3	12.0	208 Btuh
10	2, NFRC 0.20	Metal 0.30	SW	6.0	12.0	72 Btuh
11	2, NFRC 0.20	Metal 0.30	SW	12.7	12.0	152 Btuh
12	2, NFRC 0.20	Metal 0.30	NW	39.1	12.0	469 Btuh
13	2, NFRC 0.20	Metal 0.30	NW	28.0	12.0	336 Btuh
14	2, NFRC 0.20	Metal 0.30	NW	18.0	12.0	216 Btuh
15	2, NFRC 0.20	Metal 0.30	NW	39.1	12.0	469 Btuh
16	2, NFRC 0.20	Metal 0.30	NE	12.7	12.0	152 Btuh
17	2, NFRC 0.20	Metal 0.30	SE	26.0	12.0	312 Btuh
	Window Total			406.1(sqft)		4873 Btuh
Walls	Туре	Ornt. Ueff.	R-Value	Area X	HTM=	Load
	_ ,,, ,	E . (0.077)	(Cav/Sh)	0.5	0.00	004.01.1
1	Frame - Wood	- Ext (0.077)	19.0/0.0	65	3.09	201 Btuh
2	Frame - Wood	- Ext (0.077)	19.0/0.0	60	3.09	185 Btuh
3	Frame - Wood	- Ext (0.077)	19.0/0.0	110	3.09	340 Btuh
4	Frame - Wood	- Ext (0.077)	19.0/0.0	316	3.09	977 Btuh
5	Frame - Wood	- Ext (0.077)	19.0/0.0	114	3.09	353 Btuh
6 7	Frame - Wood	- Ext (0.077)	19.0/0.0	46	3.09	141 Btuh
	Frame - Wood	- Ext (0.077)	19.0/0.0	40 102	3.09	124 Btuh
8 9	Frame - Wood	- Ext (0.077)	19.0/0.0	115	3.09	315 Btuh
10	Frame - Wood Frame - Wood	- Ext (0.077) - Ext (0.077)	19.0/0.0 19.0/0.0	20	3.09 3.09	355 Btuh 62 Btuh
11	Frame - Wood	- Ext (0.077) - Ext (0.077)	19.0/0.0	54	3.09	167 Btuh
12	Frame - Wood	- Ext (0.077)	19.0/0.0	20	3.09	62 Btuh
13	Frame - Wood	- Ext (0.077)	19.0/0.0	197	3.09	607 Btuh
14	Frame - Wood	- Ext (0.077)	19.0/0.0	111	3.09	343 Btuh
15	Frame - Wood	- Ext (0.077)	19.0/0.0	60	3.09	185 Btuh
16	Frame - Wood	- Ext (0.077)	19.0/0.0	108	3.09	332 Btuh
17	Frame - Wood	- Ext (0.077)	19.0/0.0	60	3.09	185 Btuh
17	Frame - Wood	- Ext (0.077)	19.0/0.0	111	3.09	343 Btuh
19	Frame - Wood	- Ext (0.077)	19.0/0.0	107	3.09	343 Btull
20	Frame - Wood	- Ext (0.077) - Adj (0.077)	19.0/0.0	190	3.09	587 Btuh
21	Frame - Wood	- Adj (0.077)	19.0/0.0	170	3.09	507 Bluff 525 Btuh
۷۱	Wall Total	- Auj (0.077)	13.0/0.0	2175(sqft)	3.08	6723 Btuh
	I vvali 10tai			2175(Sqlt)		0123 Bluff

Manual J Winter Calculations

Residential Load - Component Details (continued) Project Title:

Oquinn Res

LAke City, FL

Project Title: 190626 Oquinn Building Type: User

2019-06-14

Doors	Type Storm Ueff.	А	rea X	HTM=	Load
1	Insulated - Exterior, n (0.400)		7	16.0	107 Btuh
2	Insulated - Exterior, n (0.400)		8	16.0	128 Btuh
3	Insulated - Exterior, n (0.400)		8	16.0	128 Btuh
4	Insulated - Exterior, n (0.400)		32	16.0	512 Btuh
5	Insulated - Exterior, n (0.400)		16	16.0	256 Btuh
6	Insulated - Exterior, n (0.400)		14	16.0	224 Btuh
7	Insulated - Garage, n (0.400)		20	16.0	320 Btuh
	Door Total		105(sqft)		1675Btuh
Ceilings	Type/Color/Surface Ueff.	R-Value A	rea X	HTM=	Load
1	Unvent Attic/D/Metal (0.044)	0.0/22.0	2384	1.7	4164 Btuh
	Ceiling Total		2384(sqft)		4164Btuh
Floors	Type Ueff.		Size X	HTM=	Load
1	Slab On Grade (1.180)	0.0	269.0 ft(perim	.) 47.2	12697 Btuh
	Floor Total		2384 sqft		12697 Btuh
		Env	elope Subtota	ıl:	30132 Btuh
Infiltration	Type Wholehouse At	CH Volume(cuft)	Wall Ratio	CFM=	
	Natural 0.	29 23840	1.00	116.3	5094 Btuh
Duct load	Average sealed, R6.0, Supply(Att)	, Return(Att)	(DLM o	f 0.102)	3609 Btuh
All Zones		Sensible Sul	btotal All Zor	nes	38834 Btuh

ı						
1	WHO		110	LICE	TOT	410
ı	vv = (: i	-			4 4 3 8	$\Delta I \sim$

Totals for Heating Ventilation Sensible Heat Loss 0 Btuh Total Heat Loss 38834 Btuh

EQUIPMENT

1. Electric Heat Pump	#	46000 Btuh
1. Liedilic Heat Fullip	π	40000 Bluii

Manual J Winter Calculations

Residential Load - Component Details (continued) Project Title:

Oquinn Res

LAke City, FL

Project Title: 190626 Oquinn Building Type: User

2019-06-14

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

System Sizing Calculations - Summer

Residential Load - Whole House Component Details Project Title:

Oquinn Res

190626 Oquinn

LAke City, FL

2019-06-14

Temperature Difference: 19.0F(TMY3 99%) Humidity difference: 51gr. Reference City: Gainesville, FL This calculation is for Worst Case. The house has been rotated 45 degrees.

Component Loads for Whole House

		Туре	*			Over	hang	Window Area(sqft)		нтм		Load		
Window	Panes	SHGC U	InSh	IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1		0.20, 0.30	No	No	NE	7.0ft.	2.0ft.	13.3	0.0	13.3	10	19	255	Btuh
2	2 NFRC	0.20, 0.30	No	No	SE	1.0ft.	1.5ft.	40.0	1.2	38.8	10	20	789	Btuh
3	2 NFRC	0.20, 0.30	No	No	SE	1.0ft.	1.5ft.	16.0	0.3	15.7	10	20	318	Btuh
4	2 NFRC	0.20, 0.30	No	No	SW	32.8f	1.0ft.	16.0	16.0	0.0	10	20	159	Btuh
5	2 NFRC	0.20, 0.30	No	No	SE	13.8f	4.0ft.	64.0	64.0	0.0	10	20	634	Btuh
6	2 NFRC	0.20, 0.30	No	No	NW	9.8ft.	1.0ft.	32.0	0.0	32.0	10	19	612	Btuh
7	2 NFRC	0.20, 0.30	No	No	SW	1.0ft.	1.5ft.	20.0	0.6	19.4	10	20	395	Btul
8	2 NFRC	0.20, 0.30	No	No	SW	1.0ft.	1.5ft.	6.0	0.4	5.6	10	20	116	Btul
9	2 NFRC	0.20, 0.30	No	No	SW	1.0ft.	1.5ft.	17.3	0.6	16.7	10	20	341	Btul
10	2 NFRC	0.20, 0.30	No	No	SW	1.0ft.	1.5ft.	6.0	0.4	5.6	10	20	116	Btul
11	2 NFRC	0.20, 0.30	No	No	SW	1.0ft.	1.5ft.	12.7	0.9	11.7	10	20	244	Btul
12	2 NFRC	0.20, 0.30	No	No	NW	1.0ft.	4.0ft.	39.1	0.0	39.1	10	19	748	Btul
13	2 NFRC	0.20, 0.30	No	No	NW	9.0ft.	3.0ft.	28.0	0.0	28.0	10	19	536	Btul
14	2 NFRC	0.20, 0.30	No	No	NW	9.0ft.	1.0ft.	18.0	0.0	18.0	10	19	345	Btul
15	2 NFRC	0.20, 0.30	No	No	NW	1.0ft.	4.0ft.	39.1	0.0	39.1	10	19	748	Btul
16	2 NFRC	0.20, 0.30	No	No	NE	1.0ft.	1.5ft.	12.7	0.0	12.7	10	19	242	Btul
17	2 NFRC	0.20, 0.30	No	No	SE	13.8f	1.0ft.	26.0	26.0	0.0	10	20	258	Btul
	Excursion	n											935	Btul
	Window	v Total				,		406 (sqft)				7789	Btul
Walls	Туре				U	-Valu	e R-∖	/alue	Area	(sqft)		HTM	Load	
							Cav/S	heath						
1	Frame - \	Wood - Ext			(80.0	19.0	/0.0	65			1.7	107	Btul
2	Frame - \	Wood - Ext			(80.0	19.0	/0.0	60	0.0		1.7	99	Btul
3	Frame - \	Wood - Ext			(80.0	19.0	/0.0	110	0.0		1.7	182	Btui
4	Frame - \	Wood - Ext			(80.0	19.0	/0.0	310	6.0		1.7	523	Btul
5	Frame - \	Wood - Ext			(80.0	19.0	/0.0	114	4.3		1.7	189	Btul
6	Frame - \	Wood - Ext			(80.0	19.0	/0.0	45			1.7	75	Btul
7	Frame - \	Wood - Ext			(80.0	19.0	/0.0	40	0.0		1.7	66	Btul
8	Frame - \	Wood - Ext			(80.0	19.0	/0.0	103	2.0		1.7	169	Btul
9	Frame - \	Wood - Ext				80.0	19.0			5.0		1.7	190	Btul
10	Frame - \	Wood - Ext			(80.0	19.0		20			1.7	33	Btul
11	Frame - \	Wood - Ext			(80.0	19.0		54			1.7	89	Btul
12	Frame - \	Wood - Ext				80.0	19.0		20			1.7	33	Btul
13	Frame - \	Wood - Ext			1	80.0	19.0	/0.0		6.5		1.7	325	Btul
14	Frame - \	Wood - Ext				80.0		/0.0	110			1.7	183	Btul
15	Frame - \	Wood - Ext			1	80.0	19.0	/0.0	60			1.7	99	Btul
16	Frame - \	Wood - Ext				80.0	19.0	/0.0	10			1.7	178	Btul
17	Frame - \	Wood - Ext			1	80.0		/0.0	60	0.0		1.7	99	Btul
18	Frame - \	Wood - Ext				80.0	19.0	/0.0		0.9		1.7	183	Btul
19	Frame - \	Wood - Ext			1	0.08	19.0	/0.0	10	7.3		1.7	177	Btul
20	Frame - \	Wood - Adj			1	80.0	19.0	0.0	19	0.0		1.5	279	Btul
21	Frame - \	Wood - Adj			1	80.0	19.0	/0.0	17	0.0		1.5	250	Btul
	Wall To	otal							217	5 (sqft)			3530	Btul

Manual J Summer Calculations

Residential Load - Component Details (continued)

Project Title: Climate:FL_GAINESVILLE_REGIONAL_A
190626 Oquinn

Oquinn Res

LAke City, FL

2019-06-14

Doors	Туре			Area (sqft)	HTM	Load	
1	Insulated - Exterior			6.7	12.0	80	Btuh
2	Insulated - Exterior			8.0	12.0	96	Btuh
3	Insulated - Exterior			8.0	12.0	96	Btuh
4	Insulated - Exterior			32.0	12.0	384	
5	Insulated - Exterior			16.0	12.0	192	
6	Insulated - Exterior			14.0	12.0	168	Btuh
7	Insulated - Garage			20.0	12.0	240	
	Door Total			105 (sqft)		1256	Btuh
Ceilings	Type/Color/Surface	U-Value	R-Value	Area(sqft)	HTM	Load	
1	Unvented Attic/DarkMetal	0.044	0.0/22.0	2384.0	1.31	3123	Btuh
	Ceiling Total			2384 (sqft)		3123	Btuh
Floors	Туре	F	R-Value	Size	HTM	Load	
1	Slab On Grade		0.0	2384 (ft-perimete	er) 0.0	0	Btuh
	Floor Total			2384.0 (sqft)		0	Btuh
				Envelope Su	btotal:	15698	Btuh
Infiltration	Туре	Average ACH	Volum	ne(cuft) Wall Ratio	o CFM=	Load	
	Natural	0.2		23840 1	87.2	1815	Btuh
Internal		Occupant	s B	tuh/occupant	Appliance	Load	
gain		•	6 X	230 +	2400	3780	Btuh
				Sensible Env	elope Load:	21292	Btuh
Duct load	Average sealed, Supply(R6.0	-Attic), Return(R6.0	-Attic)	(DGM c	of 0.119)	2529	Btuh
			Sensible Load All Zones			Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Project Title: Climate:FL_GAINESVILLE_REGIONAL_A
190626 Oquinn

Oquinn Res

LAke City, FL

WHOLE HOUSE TOTALS

2019-06-14

	Sensible Envelope Load All Zones Sensible Duct Load	21292 2529	
	Total Sensible Zone Loads	23821	Btuh
	Sensible ventilation	0	Btuh
	Blower	0	Btuh
Whole House	Total sensible gain	23821	Btuh
Totals for Cooling	Latent infiltration gain (for 51 gr. humidity difference)	3011	Btuh
	Latent ventilation gain	0	Btuh
	Latent duct gain	1374	Btuh
	Latent occupant gain (6.0 people @ 200 Btuh per person)	1200	Btuh
	Latent other gain	0	Btuh
	Latent total gain	5585	Btuh
	TOTAL GAIN	29406	Btuh

EQUIPMENT		
1. Central Unit	#	46000 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