129 Jac

88,0488

**Columbia County New Building Permit Application** 

For Office Use Only Application # 43689 Date Received 10 2 By MG Permit # 3880 T
Zopling Official LW Date 10-4-19 Flood Zone X SP Land Use Aq Zoning A-3
FEMA Map # N/A Elevation MA MFE/ Above River N/A Plans Examiner 7.6 Date 10-15-19
comments MA to be sensed print to C.O. Floor 1' Above Ad. F. 30' Sides 25' Reus 25'
NOC LEH Deed or PA Site Plan   State Road Info   Well letter 911 Sheet   Parent Parcel #
Dev Permit # In Floodway Letter of Auth. from Contractor F W Comp. letter
Owner Builder Disclosure Statement Land Owner Affidavit Ellisville Water App Fee Paid Sub VF Form
Septic Permit No. 19-0745 OR City Water Fax
Applicant (Who will sign/pickup the permit) Mark Haddax Phone 386755 141
Address PO BOX 1755 Lake City, PC 32054
Owners Name Andy + Mary Mixon Phone 386 755 6618
Owners Name Andy + Mary Mixon Phone 386 755 6618  911 Address 1557 MNOGGEL Rd hake City 32055  Contractors Name Mark Haddax Phone 386 755 2411
Contractors Name Mark Haddex Phone 356 755 2411
Address PO BOX 1755 Lake City FL 32056
Contractor Email Mhaddex e bell south, net ***Include to get updates on this job.
Fee Simple Owner Name & Address
Bonding Co. Name & Address
Architect/Engineer Name & Address Mark Disusburg
Mortgage Lenders Name & Address
Circle the correct power company FL Power & Light Clay Elec. Suwannee Valley Elec. Duke Energy
Property ID Number 62/8/-603 (19-35-16) Estimated Construction Cost 70, 600, 60
Subdivision NameLotBlockUnitPhase
Driving Directions from a Major Road 90 West to CR 135 B
to properly on tight
Construction of France Residential Commercial OR X Residential
Proposed Use/Occupancy Residential Number of Existing Dwellings on Property
Is the Building Fire Sprinkled? If Yes, blueprints included Or Explain
Circle Proposed Culvert Permit or Quivert Waiver or D.O.T. Permit or Have an Existing Drive
Actual Distance of Structure from Property Lines - Front 450 Side 150 Side 400 Rear \$50
Number of Stories Heated Floor Area 1834 Total Floor Area 2001 Acreage 18,53
Zoning Applications applied for (Site & Development Plan, Special Exception, etc.)

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

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

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

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

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

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.

WARNING TO OWNER: 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 htigation and or fines.

encumbered by any restrictions or face	possible itigation and or fines.	
Print Owners Name	Owners Signature	**Property owners <u>must sign</u> here <u>before</u> any permit will be issued.
**If this is an Owner Builder Permit App	lication then, ONLY the owner ca	an sign the building permit when it is issued.
written statement to the owner of all this Building Permit including all app	the above written responsibiled it the above written responsibiled it to be a contractor columbia.  Competen	r's License Number <u>CRC 1329447</u> County cy Card Number <u>585</u> Dhibblity
Affirmed under penalty of perjury to by	the Contractor and subscribed be	efore me this day of Contour 20/7.
Personally known or Produced Ide	entification W	The final Party.
	SEAL:	
State of Florida Notary Signature (For th	ie Contractor)	

#### NOTICE OF COMMENCEMENT

Tax Parcel Identification Number:

19- 35-16-02181-003

Clerk's Office Stamp

Inst: 201912024615 Date: 10/23/2019 Time: 12:09PM Page 1 of 1 B: 1397 P: 204, 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): a) Street (job) Address: SST NOCS et Rd Lake City FL
2. General description of improvements: Construction
a) Name and address Audu + Mory Mixe. 150 Neegel Rd Loke C.+ b) Name and address of fee simple titleholder (if other than owner) c) Interest in property 0 w needed.
4 Contractor Information a) Name and address: Wood man Park Didy Po Bex 1751 Lake C-4-/ b) Telephone No: 386 755 2411
5. Surety Information (if applicable, a copy of the payment bond is attached):  a) Name and address:
h) Amount of Bond:
5 Lander
a) Name and address 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:
b) Telephone No :
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:  b) Telephone No:
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 Man John  Signature of Owner or Lessee's Authorized Office/Director/Partner/Manager
Printed Name and Signatory's Title/Office
The foregoing instrument was acknowledged before me, a Florida Notary, this 27th day of Sept. 20 19 by:
Personally Known OR Produced Identification Type
Notary Signature Council House Notary Stamp or Seal: Notary Public State of Florida Elaine P. Harden My Commission GG 148248 Expires 10/04/2021

#### SUBCONTRACTOR VERIFICATION

APPLICATION/PERMIT #	JOB NAME	
ALLECATION TERMINA	300 11 1112	

#### 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.

		,
ELECTRICAL	Print Name Marcus Matthews Signature Mull	Need Lic
V	Company Name: Matthews Electric LLC	I Liab I W/C
ے ما		I EX
CC#	License #: EC 1300 5459 Phone #: 386-399-2029	I DE
MECHANICAL/	Print Name Signature	Need Lic
	1	I Liab
A/C	Company Name:	I w/c
CC#	License #: Phone #:	I EX
		Need
PLUMBING/	Print Name Signature	I Lic
GAS	Company Name:	I w/c
664	Dhone #	I ex
CC#	License #:Phone #:	I DE Need
ROOFING	Print NameSignature	I Lic
		I Liab
	Company Name:	I ex
CC#	License #: Phone #:	I DE
SHEET METAL	Print NameSignature	Need
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	Company Name:	I w/c
CC#	License #: Phone #:	I EX
FIRE SYSTEM/	Print NameSignature	Need Lic
SPRINKLER	Company Name:	I Liab
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CC#	License#: Phone #:	I DE
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	Company Name:	I w/c
CC#	License #: Phone #:	I DE
		<u>Need</u>
STATE	Print NameSignature	_ Lic _ Liab
SPECIALTY	Company Name:	= w/c
CC#	License #: Phone #:	I EX

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

Halls Alc

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MECHANICAL/	Print Name DVICHOU Signature		Ne.	ed Lic
·			28	Liab
A/C			7	M/C
cc# <u>568</u>	License #: <u>CACO57434</u> Phone #	(386) 55-4 14d.	0 0	DE DE
PLUMBING/	Print Name Signature	2	Ne	<u>ed</u> Lic
CAS			Ξ	Liab
GAS	Company Name:		B)	W/C EX
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- L			12	EX
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SPRINKLER			1	Liab W/C
SPRINKLER	Company Name:		=	EX
CC#	License#: Phone #:		5	DE
COLAR	Print NameSignature		Nec	<u>ed</u> Lic
SOLAR	Print NameSignature		5	Liab
	Company Name:		Ξ	W/C
CC#	License #: Phone #: _		0	DE
			Ne	_
STATE	Print Name Signature		Ξ	Lic
			1	Liab W/C
SPECIALTY	Company Name:		_	EX
CC#	License #: Phone #:		=======================================	ĐE

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

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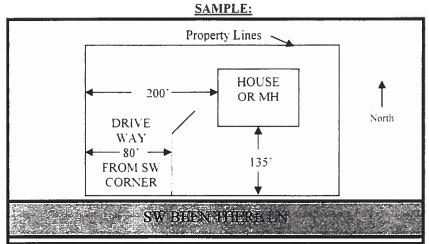
Violations will result in stop work orders and/or fines.

ELECTRICAL	Print Namo	Need
ELECTRICAL	Print NameSignature	— □ Liab
	Company Name:	□ w/c
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MECHANICAL/	Print Name Signature	
A/C	Company Names	□ Liab
A/C	Company Name:	□ w/c
CC#	License #: Phone #:	□ EX
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PLUMBING/	Print Name Signature	<u>Need</u> ☐ Lic
	_	□ Liab
GAS	Company Name:	□ w/c
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534 N	Company Name: SMININA TOSTNGNG INC	□ Liab □ W/C
CON 19TH	CC 122/182 11 201 200 -112/	B w/c
cc# AS ROLL	License #: CCC [376] 97	— DE
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SHEET METAL	Print Name Signature	🗆 Lic
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	company Name.	_ □ w/c
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CC#	License#: Phone #:	O EX
		— □ DE
SOLAR	Print Name Signature	Need Lic
		□ Liab
	Company Name:	_ 🖪 w/c
CC#	License #: Phone #:	□ EX
	Thorem.	— □ DE
STATE	Drint Name	Need
STATE	Print NameSignature	_ I Lic
SPECIALTY	Company Name:	_ I W/C
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CC#	License #: Phone #:	

LAND DESC ZONE AE CODE TOPO Y 000102 SFR/MH A-1 0002 N 006200 PASTURE 3 A-1 0002 N 009910 MKT.VAL.AG A-1 Y 009945 WELL/SEPT 00 0002	TOTAL 1736 1609 EXTRA FEATURES AE BN CODE DESC Y 0294 SHED WOOD/VI	01 UD-6 N/A UD-8 N/A UD-8 N/A UD-9 03 UD-9 -AREA & E-AREA 1560 100 1560 48 35 17 128 25 32	04 PLYWOOD N/A 14 CARPET 08 SHT VINYL 08 AIR DUCTED 03 CENTRAL 05 05 N/A N/A N/A N/A N/A N/A N/A N/A N/A	NG P WHI	BEG SE COR OF NE1/4 OF NW1/ RUN W 1345.48 FT, N 600 FT, 1345.97 FT, S 600 FT TO POB ORB 541-660
ROAD {UIII {UIII } {UI	1456	N/A N/A N/A N/A N/A SUB VALUE 14116 290	ZZZZZ	AE? Y 2.00 3	
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PRICE AC 12373.870 AC 240.000 AC 240.000 AC 4164.280 UT 3250.000	GRANTOR GRANTOR GRANTEE ADJ UT PR 400.000	NUMBER DESC	CD  =W44 OP19	I 3  K STR 19- 3S  K WKT AREA 01  (PUD1  AC  AC  NTCD  18.	8/14/2019 6/18/2018
ADJ UT PR 12373.87 240.00 4164.28 3250.00	SPCD % %GOOD AP 50.00 50.00	PERMITS SALE DATE /01/1984 U	72,93 103,33 34,53 34,53 003 003 BLDG TRAVERSE S26 E24 FOP1993=S6E8 1 93=N8 W16 S8 E16\$ W16	16 005000 30	Dia.
LAND VALUE 12,373 4,207AG 72,999MK 3,250	DD XFOB VALUE	AMT ISSUED PRICE PRICE 40000	. 9 0000 000	IMPROVED AG  14,560 BLDG  200 XFOB  15,623 LAND  4.207 CLAS	County 2019 R CARD 001 of 001 BY JEFF

#### Page 2, Site Plan for 9-1-1 Address Application From

- 1. A PLAT, PLAN, OR DRAWING SHOWING THE PROPERTY LINES OF THE PARCEL.
- 2. LOCATION OF PLANNED RESIDENT OR BUSINESS STRUCTURE ON THE PROPERTY WITH DISTANCES FROM AT LEAST TWO OF THE PROPERTY LINES TO THE STRUCTURE (SEE SAMPLE BELOW).
- 3. LOCATION OF THE ACCESS POINT (DRIVEWAY, ETC.) ON THE ROADWAY FROM WHICH LOCATION IS TO BE ADDRESSED WITH A DISTANCE FROM A PARALLEL PROPERTY LINE AND OR PROPERTY CORNER (SEE SAMPLE BELOW).
- 4. TRAVEL OF THE DRIVEWAY FROM THE ACCESS POINT TO THE STRUCTURE (SEE SAMPLE BELOW).



May 1 Hours will he removed when c/c

#### **Columbia County Property Appraiser**

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

Parcel: << 19-3S-16-02181-003 >>>

Owner & Pr	operty Info	Result: 1	Result: 16 of 33		
Owner	MIXON A L JR 1557 NW NOEGEL RD LAKE CITY, FL 320559529				
Site	1557 NOEGEL RD, LAKE CITY				
Description*	BEG SE COR OF NE1/4 OF NW1/4, RUN W 1345.48 FT, N 600 FT, E 1345.97 FT, S 600 FT TO POB. ORB 541-660				
Area	18.53 AC S/T/R 19-				
Use Code**	IMPROVED A (005000)	Tax District	3		

<sup>\*</sup>The Description above is not to be used as the Legal Description for this parcel in any legal transaction.

**Property & Assessment Values** 

Total

Taxable

Aerial Viewer



#### 2018 Certified Values 2019 Preliminary Certified \$15,623 Mkt Land (2) \$14,373 Mkt Land (2) \$4,207 Ag Land (1) \$4,207 Ag Land (1) Building (1) \$13,128 Building (1) \$14,560 XFOB (1) \$200 XFOB (1) \$200 \$103,382 Just \$100,700 Just Class \$31,908 Class \$34,590 Appraised \$31,908 Appraised \$34,590 SOH Cap [?] \$1,542 SOH Cap [?] \$3,727 Assessed \$30,366 Assessed \$30,863 Exempt HX H3 \$25,000 Exempt HX H3 \$25,000 county:\$5,366 county:\$5,863

city:\$5,366 Total

school:\$5,366

other:\$5,366 Taxable

▼ Sales History						
Sale Date	Sale Price	Book/Page	Deed	V/I	Quality (Codes)	RCode
6/1/1984	\$40,000	541/0660	WD	V	U	01

city:\$5,863

other:\$5,863

school:\$5,863

▼ Building Characteristics							
Bldg Sketch	Bldg Item	Bidg Desc*	Year Blt	Base SF	Actual SF	Bldg Value	
Sketch	1	MOBILE HME (000800)	1984	1560	1736	\$14,560	

\*Bldg Desc determinations are used by the Property Appraisers office solely for the purpose of determining a property's Just Value for ad valorem tax purposes and should not be used for any other purpose.

▼ Extra Features & Out Buildings (Codes)							
Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)	
0294	SHED WOOD/	0	\$200.00	1.000	0 x 0 x 0	AP (050.00)	

▼ Land Break	down				
Land Code	Desc	Units	Adjustments	Eff Rate	Land Value

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



# STATE OF FLORIDA

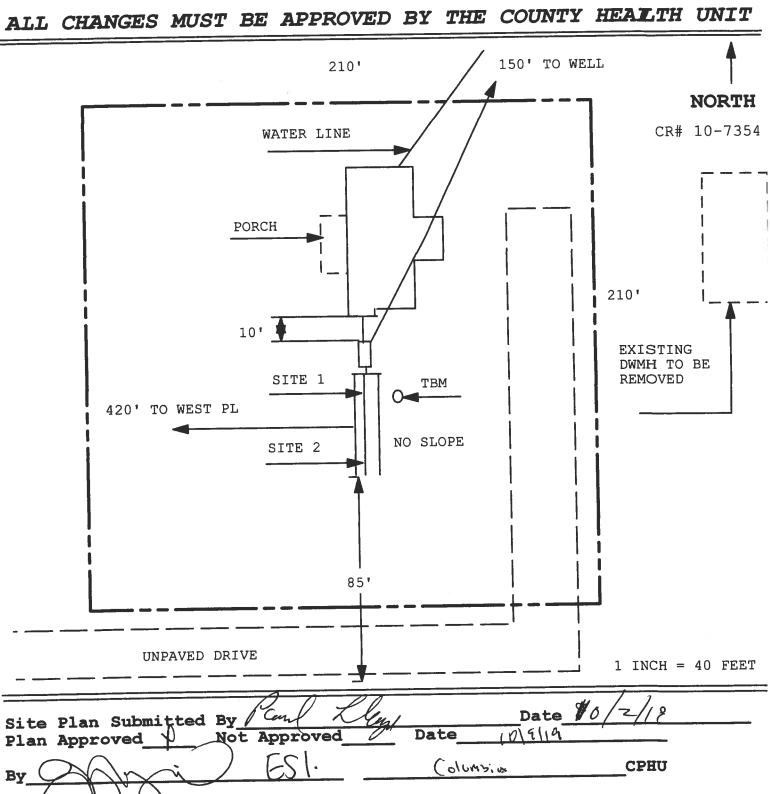
CR # 10-7354

PERMIT NO . 74 6

DEPARTMENT OF HEALTH ONSITE SEWAGE TREATMENT AND SYSTEM APPLICATION FOR CONSTRUCTION APPLICATION FOR:	RECEIPT # : 4 743
[X] New System [ ] Existing System [ ] Repair [ ] Abandonment	[ ] Holding Tank [ ] Imnovative [ ]
APPLICANT: A. L. MIXON, JR.	
AGENT: WOODMAN PARK BUILDERS	TELEPHONE: (3 86) 288-1764
MAILING ADDRESS: P.O. BOX 1755	LAKE CITY FL 32056
TO BE COMPLETED BY APPLICANT OR APPLICANT'S AUBY A PERSON LICENSED PURSUANT TO 489.105(3) (m) APPLICANT'S RESPONSIBILITY TO PROVIDE DOCUMENT PLATTED (MM/DD/YY) IF REQUESTING CONSIDERATION	OR 489.552, FLORIDA STATUTES. IT IS THE ATION OF THE DATE THE LOT WAS CREATED OR
PROPERTY INFORMATION	
LOT: N/A BLOCK: N/A SUBDIVISION: METES	S AND BOUNDS PLATTED:
PROPERTY ID #: 19-3S-16-02181-003 ZC	ONING: RES I/M OR EQUIVALENT: [ NO ]
PROPERTY SIZE: 18.530 ACRES WATER SUPPLY: [X	PRIVATE PUBLIC [ ]<=2000GPD [ ]>2000GPI
IS SEWER AVAILABLE AS PER 381.0065, FS? [ NO	DISTANCE TO SEWER: N/A FT
PROPERTY ADDRESS: 1557 NOEGEL AVENUE LAKE	CITY, FL 32055
ONTO LAKE JEFFERY ROA	N LEFT ONTO BASCOM NORRIS DR, TURN RIGHT D, TURN LEFT ONTO NASH ROAD, TURN RIGHT URN LEFT ONTO NOEGEL ROAD.
BUILDING INFORMATION [X] RESIDENTIAL [ ]	COMMERCIAL
Unit Type of No. of Building No. Establishment Bedrooms Area S	ng Commercial/Institutional System Design offt Table 1, Chapter 64E-6, FAC
1 HOUSE 3 1.	800
2	
3	
4	
[ ] Floor/Equipment Drains [ ] Other (Special	ify)
SIGNATURE: MM/M/M/	DATE: V(5-9,19

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

Application for Onsite Sewage Disposal System Construction Permit. Part II Site Plan Permit Application Number: 19-8745



Notes:

#### Legend

#### 2018Aerials

288

SectionTownshipAndRange

#### Roads

Roads

others

Dirt 💚

Interstate

Main

Other

Paved Private

Parcels

#### 2018 Flood Zones

0.2 PCT ANNUAL CHANCE

A

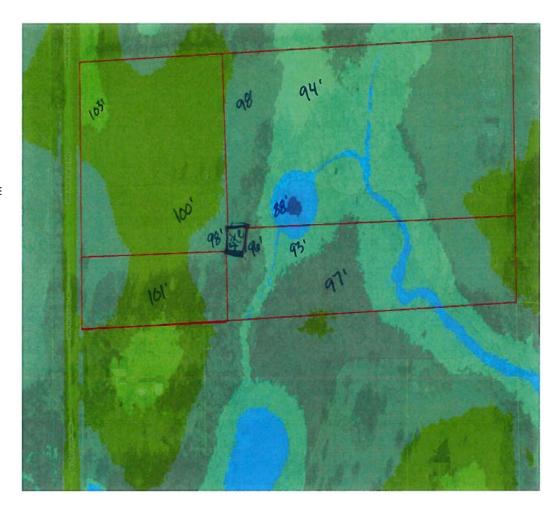
■ AE

AH .

LidarElevations

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

Printed: Fri Oct 04 2019 15:57:25 GMT-0400 (Eastern Daylight Time)



#### Parcel Information

Parcel No: 19-3S-16-02181-003

Owner: MIXON A L JR

Subdivision:

Lot:

Acres: 18.7804317 Deed Acres: 18.53 Ac

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

Flood Zones: A,

Official Zoning Atlas: A-3

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.



### 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:

APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

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

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

Items to Include-

Each Box shall be

Circled as

Applicable
Select From Drop down

V

1

	Condition space (Sq. Ft.) 10tal (Sq. Ft.) under root	161	.30	1.7.2
	signers name and signature shall be on all documents and a licensed architect or engineer, signature ar II be affixed to the plans and documents as per the FLORIDA BUILDING CODES RESIDENTIAL 1		embossed	l seal
	te Plan information including:			
4	Dimensions of lot or parcel of land	./		T
5	Dimensions of all building set backs	- V		<del> </del>
6	Location of all other structures (include square footage of structures) on parcel, existing or proposed			
D	well and septic tank and all utility easements.	- 1/		
7	Provide a full legal description of property.	. ~		
W	ind-load Engineering Summary, calculations and any details are required.  GENERAL REQUIREMENTS:	Itam	s to Inclu	uda.
	APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	1	Box shal	
	ATT DICATE - T DEADE CHECK ADD ATT DICADDD DONED DEFORD CODMITTING		ircled as	
			olicable	
8	Plans or specifications must show compliance with FBCR Chapter 3	Yes	No.	14
-	Trans of specifications must show compilance with 1 Dett enapter 5	Select Fro		down
9	Basic wind speed (3-second gust), miles per hour	. ~		T
10	(Wind exposure – if more than one wind exposure			
	is used, the wind exposure and applicable wind direction shall be indicated)	-1/		
11	Wind importance factor and nature of occupancy			
		-/		
12	The applicable internal pressure coefficient, Components and Cladding	- 1/		
	The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component,			
13	cladding materials not specifally designed by the registered design professional.	-/		
EI	evations Drawing including:			
14	All side views of the structure	- V		
15	Roof pitch	- V	1	
16	Overhang dimensions and detail with attic ventilation	- V.		
17	Location, size and height above roof of chimneys	- /		
18		- V		
19	Number of stories	- 1		
	Building height from the established grade to the roofs highest peak	- /		

	Floor Pl an Including:  Dimensioned area plan showing rooms, attached garage, breeze ways, covered porches,			
	deck, balconies	- V		
2	Raised floor surfaces located more than 30 inches above the floor or grade	- /		
3	All exterior and interior shear walls indicated	- V	/	
1	Shear wall opening shown (Windows, Doors and Garage doors)	- V		
5	Show compliance with Section FBCR 310 Emergency escape and rescue opening shown in each			
	bedroom (net clear opening shown) and Show compliance with Section FBC 1405.13.2 where the			
	opening of an operable window is located more than 72 inches above the finished grade or surface			-
	below, the lowest part of the clear opening of the window shall be a minimum of 24 inches above	-		i
	the finished floor of the room in which the window is located. Glazing between the floor and 24		/	1
	inches shall be fixed or have openings through which a 4-inch-diameter sphere cannot pass.		,	
5	Safety glazing of glass where needed	<i>V</i>		
7	Fireplaces types (gas appliance) (vented or non-vented) or wood burning with Hearth (see chapter 10 and chapter 24 of FBCR)			
1	(see chapter to and chapter 24 of PBCR)	· V		
3	Show stairs with dimensions (width, tread and riser and total run) details of guardrails, Handrails	U		
	Show stand with dimensions (within, wead and riser and total rull) details of guardrans, Halldrans	· v	10 0.00	
)	Identify accessibility of bathroom (see FBCR SECTION 320)	- /	/	
!-		V		
11	materials placed within opening or onto/into exterior walls, soffits or roofs shall	have l	Flori	la pro
DГ	roval number and mfg. installation information submitted with the plans			
	Florida product approval form)			
-	1/			
	GENERAL REQUIREMENTS:	Ite	ms to I	nclude-
	APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Fac	h Box	chall b
			Circle	d as
				d as
			Circle	d as
BO	R 403: Foundation Plans		Circle Applie	d as able
	R 403: Foundation Plans	Selec	Circle Applic	d as
	R 403: Foundation Plans  ocation of all load-bearing walls footings indicated as standard, monolithic, dimensions, size		Circle Applic	d as able
)	R 403: Foundation Plans  ocation of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.	Selec	Circle Applic	d as able
0	CR 403: Foundation Plans  Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.  All posts and/or column footing including size and reinforcing	Selec	Circle Applic	d as able
)	CR 403: Foundation Plans  Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.  All posts and/or column footing including size and reinforcing  Any special support required by soil analysis such as piling.	Selection - V	Circle Applic	d as able
1 2 3	CR 403: Foundation Plans  Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.  All posts and/or column footing including size and reinforcing  Any special support required by soil analysis such as piling.  Assumed load-bearing valve of soil Pound Per Square Foot	Selection - V	Circle Applic	d as able
1 2 3	CR 403: Foundation Plans  Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.  All posts and/or column footing including size and reinforcing  Any special support required by soil analysis such as piling.	Selection - V	Circle Applic	d as able
1 2 3 4	CR 403: Foundation Plans  Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.  All posts and/or column footing including size and reinforcing  Any special support required by soil analysis such as piling.  Assumed load-bearing valve of soil  Pound Per Square Foot  Location of horizontal and vertical steel, for foundation or walls (include # size and type) For structure.	Selection - V	Circle Applic	d as able
1 2 3	R 403: Foundation Plans  Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.  All posts and/or column footing including size and reinforcing  Any special support required by soil analysis such as piling.  Assumed load-bearing valve of soil  Location of horizontal and vertical steel, for foundation or walls (include # size and type) For structure with foundation which establish new electrical utility companies service connection a Concrete	Selection - V	Circle Applic	d as able
1 2 3	Cocation of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.  All posts and/or column footing including size and reinforcing.  Any special support required by soil analysis such as piling.  Assumed load-bearing valve of soil  Pound Per Square Foot  Location of horizontal and vertical steel, for foundation or walls (include # size and type) For structure with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an grounding electrode system.	Selection - V	Circle Applic	d as able
1 2 3	Cocation of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.  All posts and/or column footing including size and reinforcing.  Any special support required by soil analysis such as piling.  Assumed load-bearing valve of soil  Pound Per Square Foot  Location of horizontal and vertical steel, for foundation or walls (include # size and type) For structure with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an grounding electrode system. Per the National Electrical Code article 250.52.3	Selection - V	Circle Applic	d as able
1 2 3 4	CR 403: Foundation Plans  Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.  All posts and/or column footing including size and reinforcing  Any special support required by soil analysis such as piling.  Assumed load-bearing valve of soil Pound Per Square Foot  Location of horizontal and vertical steel, for foundation or walls (include # size and type) For structure with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an grounding electrode system. Per the National Electrical Code article 250.52.3	Selection - V	Circle Applic	d as able
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1 2 3 4	CR 403: Foundation Plans  Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.  All posts and/or column footing including size and reinforcing  Any special support required by soil analysis such as piling.  Assumed load-bearing valve of soil Pound Per Square Foot  Location of horizontal and vertical steel, for foundation or walls (include # size and type) For structure with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an grounding electrode system. Per the National Electrical Code article 250.52.3	Selection - V	Circle Applic	d as able
1 1 2 3 4	Cocation of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.  All posts and/or column footing including size and reinforcing  Any special support required by soil analysis such as piling.  Assumed load-bearing valve of soil  Pound Per Square Foot  Location of horizontal and vertical steel, for foundation or walls (include # size and type) For structure with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an grounding electrode system. Per the National Electrical Code article 250.52.3  CR 506: CONCRETE SLAB ON GRADE  Show Vapor retarder (6mil. Polyethylene with 'pints la \$\frac{1}{2}\$\$ 6 inches and sealed)  Show control; oints, synthetic fiber reinforcement or welded fire fabric reinforcement and S\frac{1}{2}\$\$ ports	Selection - V	Circle Applic	d as able
1 2 3 4 BC	CR 403: Foundation Plans  Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.  All posts and/or column footing including size and reinforcing  Any special support required by soil analysis such as piling.  Assumed load-bearing valve of soil  Pound Per Square Foot  Location of horizontal and vertical steel, for foundation or walls (include # size and type) For structure with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an grounding electrode system. Per the National Electrical Code article 250.52.3  CR 506: CONCRETE SLAB ON GRADE  Show Vapor retarder (6mil. Polyethylene with pints la ph 6 inches and sealed)  Show control j oints, synthetic fiber reinforcement or welded fire fabric reinforcement and Supprts	Selection - V	Circle Applic	d as able
1 2 3 4 4 5 6 1 BC	CR 403: Foundation Plans  Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.  All posts and/or column footing including size and reinforcing  Any special support required by soil analysis such as piling.  Assumed load-bearing valve of soil  Pound Per Square Foot  Location of horizontal and vertical steel, for foundation or walls (include # size and type) For structure with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an grounding electrode system. Per the National Electrical Code article 250.52.3  CR 506: CONCRETE SLAB ON GRADE  Show Vapor retarder (6mil. Polyethylene with 'pints la co 6 inches and sealed)  Show control; oints, synthetic fiber reinforcement or welded fire fabric reinforcement and Sports  R 318: PROTECTION AGAINST TERMITES  Indicate on the foundation plan if soil treatment is used for subterranean termite prevention or	Selection - V	Circle Applic	d as able
1 2 3 4 4 5 6 1 BC	CR 403: Foundation Plans  Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.  All posts and/or column footing including size and reinforcing  Any special support required by soil analysis such as piling.  Assumed load-bearing valve of soil  Pound Per Square Foot  Location of horizontal and vertical steel, for foundation or walls (include # size and type) For structure with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an grounding electrode system. Per the National Electrical Code article 250.52.3  CR 506: CONCRETE SLAB ON GRADE  Show Vapor retarder (6mil. Polyethylene with 'pints la \$\frac{1}{2}\$6 inches and sealed)  Show control; oints, synthetic fiber reinforcement or welded fire fabric reinforcement and Sports  R 318: PROTECTION AGAINST TERMITES  Indicate on the foundation plan if soil treatment is used for subterranean termite prevention or submit other approved termite protection methods. Protection shall be provided by registered	Selection - V	Circle Applic	d as able
BC	CR 403: Foundation Plans  Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.  All posts and/or column footing including size and reinforcing  Any special support required by soil analysis such as piling.  Assumed load-bearing valve of soil  Pound Per Square Foot  Location of horizontal and vertical steel, for foundation or walls (include # size and type) For structure with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an grounding electrode system. Per the National Electrical Code article 250.52.3  CR 506: CONCRETE SLAB ON GRADE  Show Vapor retarder (6mil. Polyethylene with 'pints la co 6 inches and sealed)  Show control; oints, synthetic fiber reinforcement or welded fire fabric reinforcement and Sports  R 318: PROTECTION AGAINST TERMITES  Indicate on the foundation plan if soil treatment is used for subterranean termite prevention or	Selection - V	Circle Applic	d as able
B(C)	CR 403: Foundation Plans  Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.  All posts and/or column footing including size and reinforcing  Any special support required by soil analysis such as piling.  Assumed load-bearing valve of soil Pound Per Square Foot  Location of horizontal and vertical steel, for foundation or walls (include # size and type) For structure with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an grounding electrode system. Per the National Electrical Code article 250.52.3  ER 506: CONCRETE SLAB ON GRADE  Show Vapor retarder (6mil. Polyethylene with 'pints la co 6 inches and sealed)  Show control j oints, synthetic fiber reinforcement or welded fire fabric reinforcement and Supprts  R 318: PROTECTION AGAINST TERMITES  Indicate on the foundation plan if soil treatment is used for subterranean termite prevention or submit other approved termite protection methods. Protection shall be provided by registered termiticides	Selection - V	Circle Applic	d as able
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B(6)	CR 403: Foundation Plans  Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.  All posts and/or column footing including size and reinforcing  Any special support required by soil analysis such as piling.  Assumed load-bearing valve of soil Pound Per Square Foot  Location of horizontal and vertical steel, for foundation or walls (include # size and type) For structure with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an grounding electrode system. Per the National Electrical Code article 250.52.3  ER 506: CONCRETE SLAB ON GRADE  Show Vapor retarder (6mil. Polyethylene with 'pints la co 6 inches and sealed)  Show control j oints, synthetic fiber reinforcement or welded fire fabric reinforcement and Supprts  R 318: PROTECTION AGAINST TERMITES  Indicate on the foundation plan if soil treatment is used for subterranean termite prevention or submit other approved termite protection methods. Protection shall be provided by registered termiticides	Selection - V	Circle Applic	d as able

Floor truss package shall including layout and details, signed and sealed by Florida Registered  Professional Engineer	
The state of the s	
Show conventional floor joist type, size, span, spacing and attachment to load bearing walls,	1
41 stem walls and/or priers	
42 Girder type, size and spacing to load bearing walls, stem wall and/or priers	
43 Attachment of joist to girder	
44 Wind load requirements where applicable	
45 Show required under-floor crawl space	
46 Show required amount of ventilation opening for under-floor spaces	
47 Show required covering of ventilation opening -	and the second s
48 Show the required access opening to access to under-floor spaces	
Show the sub-floor structural panel sheathing type, thickness and fastener schedule on the edges &	
49 intermediate of the areas structural panel sheathing	
50 Show Draftstopping, Fire caulking and Fire blocking	
51 Show fireproofing requirements for garages attached to living spaces, per FBCR section 302.6	
52 Provide live and dead load rating of floor framing systems (psf).	
FBCR CHAPTER 6 WOOD WALL FRAMING CONSTRUCTION	
	ns to Include-
the state of the s	h Box shall be
	Circled as
The state of the s	Applicable
	om Drop dowr
53 Stud type, grade, size, wall height and oc spacing for all load bearing or shear walls	
54 Fastener schedule for structural members per table FBC-R602.3.2 are to be shown - U	
Show wood structural panel's sheathing attachment to studs, joist, trusses, rafters and structural	
55   members, showing fastener schedule attachment on the edges & intermediate of the areas structural   - //	
panel sheathing	
Show all required connectors with a max uplift rating and required number of connectors and	
56 oc spacing for continuous connection of structural walls to foundation and roof trusses or	
rafter systems	
Show sizes, type, span lengths and required number of support jack studs, king studs for	
57 shear wall opening and girder or header per FBC-R602.7.	/-
58 Indicate where pressure treated wood will be placed - V	
Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural	/
59 panel sheathing edges & intermediate areas	,
60 A detail showing gable truss bracing, wall balloon framing details or/ and wall hinge bracing detail -	
FBCR :ROOF SYSTEMS:	**
61 Truss design drawing shall meet section FBC-R 802.10.1 Wood trusses	
62 Include a layout and truss details, signed and sealed by Florida Professional Engineer	
63 Show types of connector's assemblies' and resistance uplift rating for all trusses and rafters $-\nu$	
64 Show gable ends with rake beams showing reinforcement or gable truss and wall bracing details - 🛩	
65 Provide dead load rating of trusses - V	
FBCR 802:Conventional Roof Framing Layout	
66 Rafter and ridge beams sizes, span, species and spacing - L	
67 Connectors to wall assemblies' include assemblies' resistance to uplift rating	-
68 Valley framing and support details	
69 Provide dead load rating of rafter system	
FBCR 803 ROOF SHEATHING	
70 Include all materials which will make up the roof decking, identification of structural panel	
sheathing, grade, thickness	
71 Show fastener Size and schedule for structural panel sheathing on the edges & intermediate areas	-

. . . . .

72	Include all materials which will make up the roof assembles covering	- U		
73	Submit Florida Product Approval numbers for each component of the roof assembles covering	- /		
Res	BCR Chapter 11 Energy Efficiency Code for Residential Building idential construction shall comply with this code by using the following compliance methods in the l			
Con requ mee	dings compliance methods. Two of the required forms are to be submitted, N1100.1.1.1 As an alternate method A, the Alternate Residential Point System Method hand calculation, Alternate Formularements specific to this calculation are located in Sub-appendix C to Appendix G. Buildings comply at all mandatory requirements of this chapter, Computerized versions of the Alternate Residential Point Computerized for code compliance.	600A, may ing by this a	be used. Ilternati	. All ive shall
	GENERAL REQUIREMENTS: APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Each E	to Inclu Box shal reled as oplicable	ll be
		Select from	Drop	Down
74	THE RESIDENCE AND ADDRESS OF THE PERSON OF T	- 1/	4	
75		- V		
76	Exterior wall cavity	- V		
77	Crawl space	- V		
H 78	VAC information Submit two copies of a Manual J sizing equipment or equivalent computation study	-		
79				
1	20 cfm continuous required	1 0,		The second secon
80	Show clothes dryer route and total run of exhaust duct	1- IV	10 10 10 10 10 10 10 10 10 10 10 10 10 1	
Pl	umbing Fixture layout shown	The second secon		
	All fixtures waste water lines shall be shown on the foundation lan	- V	-	
82	Show the location of water heater	- /		1
	ivate Potable Water		grimman ar de a samual manare	
	Pump motor horse power	- V		
	Reservoir pressure tank gallon capacity	· ~		
85	Rating of cycle stop valve if used	-	1	
TE I	ectrical layout shown including			
86		1-	1	
87	Show all 120-volt, single phase, 15- and 20-ampere branch circuits outlets required to be protected			-
0,	by Ground-Fault Circuit Interrupter (GFCI) Article 210.8 A	- V		
88		- 1		
89	Show service panel, sub-panel, location(s) and total ampere ratings	- V		
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	-		
	For structures with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an Grounding electrode system. Per the National Electrical Code article 250.52.3	V		

91 Appliances and HVAC equipment and disconnects

92 Show all 120-volt, single phase, 15- and 20-ampere branch circuits supplying outlets installed in dwelling unit family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreation rooms, closets, hallways, or similar rooms or areas shall be protected by

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

#### Notice Of Commencement:

A notice of commencement form RECORDED in the Columbia County Clerk Office is required to be filed with the Building Department BEFORE ANY INSPECTIONS can be performed.

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable
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#### \*\*ITEMS 95, 96. & 98 Are Required After APPROVAL from the ZONING DEPT. Select from Drop down 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 95 Environmental Health Permit or Sewer Tap Approval A copy of a approved Columbia County Environmental Health (386) 758-1058 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 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. Flood Information: All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting a application to this office. Any project located within a flood zone where the base flood elevation (100 year flood) has been established shall meet the requirements of Section 8.5.2 of the Columbia County Land Development Regulations. Any project located within a flood zone where the base flood elevation has not been established (Zone A) shall meet the requirements of Section 8.5.3 of the Columbia County Land Development Regulations (Municode.com) CERTIFIED FINISHED FLOOR ELEVATIONS will be required on any project where the approved FIRM Flood Maps show the property is in a AE, Floodway, and AH flood zones. Additionally One Foot Rise letters are required for AE and AH zones. In the Floodway Flood zones a Zero Rise letter is required. A Flood development permit is also required for AE, Floodway & AH. Development permit cost is \$50.00 Driveway Connection: If the property does not have an existing access to a public road, then an application for a culvert permit (\$25.00) must be made. County Public Works Dept. determines the size and length of every culvert before instillation and completes a final inspection before permanent power is granted. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver (\$50.00) Separate Check when issued. If the project is to be located on an F.D.O.T. maintained road, then an F.D.O.T. access permit is required. 911 Address: An application for a 911 address must be applied for and received through the Columbia 103 County Emergency Management Office of 911 Addressing Department (386) 758-1125.

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

# FLORIDA PRODUCT APPROVALS

-		10-16-15	
p	Rogine Valley	Weod	FL-13137
Item:	Manufacturer	- Product Description:	Approval Number:
Exterior Doors:	Masonite	Inswing & Outswing Fiberglass	FL-8228-R7
	Masonite	Inswing & Outswing Steel	FL-4904-R7 WANS 22521.
	Plastpro	8'0" Inswing & Outswing Fiberglass	FL-15220-R1
	Plastpro 🛁	Inswing & Outswing Steel	FL-15962-R2
	Plastpro	6'8" Inswing & Outswing Fiberglass	FL-15215-R3, SH F flush blued insut
		6.8' fip-6/azed light	FL-17347 11-17
Windows:	MI	Aluiminum 185 Single Hung	FL-17499
		Aluiminum 185 Picture Window	FL-15349
	> 53"X50	) 1 3580 Hor. Stider	FL-13349.Z
Jul 653 (16	vers flavor	Vinyl 3540 Single Hung	FL-17676-RT R6
E FINKS.	AER 16500	Vinyl 3500 Picture Window	FL-18644
(	Atrium	150 160	FL-11834
	Magnolia	Vinyl 400 Single Hung	FL-16475-R3
		Vinyl 400 Picture Window	FL-16474-R2
5-16	63"X HUD"	400 Har Slider	FL 164761
Soffit:	Kaycan	Vinyl/PVC & Aluminum Soffit	FL-16503
		Vinyl Siding	FL-15867-R1
F (1)	LCIHW (WCL)	International Pola Code	ESR3774
Únderlayment:	Woodland	30# Felt	FL-17206-R3
	Interwrat	Rhino.	FL-15216
Roofing:	Certainteed	Asphalt Shingles	FL-5444
ł	GAF	Asphalt Shingles	FL-10124-R16 R20 11
Releatus SA.P.	Tamko	Asphalt Shingles	FL-18355
1654 RZ	o 3rtuntled	Flintlastic SBSUAL	FL-1670911
Siding:	Allura of Plycem	Cement board lap siding	FL-17482-R2
	James Hardie	Cement board lap siding	FL-13192-R4
Simpson		LSTA – MSTA, SPH4	FL-13872-R2
	GAF	Tiger Paw Underlayment	FL-15487-R5
Metal Roofing	2	5V Roofing Master Rib Roofing	FL-9555-R3 FL-9557-R3
	Hudie	Cenflanc	13192.1
	Unica	24 A temp.	
			•

1-7-16

#### **Melissa Garber**

From:

Melissa Garber

Sent:

Friday, October 18, 2019 9:58 AM

To:

'mhaddox@bellsouth.net'

Subject:

New Building Application

#### Good morning Mark,

Great news! Your application has completed the review process, however, we still need paperwork from EH to get this permit ready for issuance. We also need the recorded NOC prior to any inspections. Have a great weekend!

#### Thanks!

Melissa Garber Administrative Secretary Columbia County Building and Zoning 135 NE Hernando Ave, Suite B-21 Lake City, Florida 32055 Ph (386) 758-1008



#### 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 & grove exceptions provided in Section R403.7  Mandatory Requirements (five pages)
	Mandatory Requirements (five pages)
Req	uired 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)

FORM R405-2017

#### FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

	L		
Project Name: 191079 Mixon Street: 1557 Noegel Rd, City, State, Zip: Lake City, FL, 3205 Owner: Mixon Design Location: FL, Gainesville	;5	Builder Name: Permit Office: Permit Number: Jurisdiction: County: Columbia (Florida Clima	ite 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(182.0 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 1834 0 Area 182.00 ft² ft²	9. Wall Types (1573.3 sqft.) a. Frame - Wood, Exterior b. N/A c. N/A d. N/A 10. Ceiling Types (1890.0 sqft.) a. Under Attic (Vented) b. N/A c. N/A 11. Ducts a. Sup: Attic, Ret: Attic, AH: Main  12. Cooling systems a. Central Unit	Insulation Area R=13.0 1573.30 ft² R= ft² R= ft² R= ft² Insulation Area R=38.0 1890.00 ft² R= ft² R= ft² R= ft² R= ft² R= ft² R ft² C 366.8   kBtu/hr Efficiency S1.0 SEER:16.00
SHGC: Area Weighted Average Overhang Depth Area Weighted Average SHGC:  8. Floor Types (1834.0 sqft.) a. Slab-On-Grade Edge Insulation b. N/A c. N/A		14. Hot water systems  a. Electric  b. Conservation features  None  15. Credits	cap: 50 gallons EF: 0.950
Glass/Floor Area: 0.099	Total Proposed Modified Total Baseline		PASS
I hereby certify that the plans and specthis calculation are in compliance with Code.  PREPARED BY: Evan Beamsley DATE: 2019-09-25  I hereby certify that this building, as dewith the Florida Energy Code.  OWNER/AGENT:	the 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:	GREAT STATE OF THE
DATE:		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).

INPUT SUMMARY CHECKLIST REPORT FORM R405-2017 **PROJECT** Address Type: Street Address 3 191079 Mixon Bedrooms: Title: Lot# 1834 Conditioned Area: User **Building Type:** Block/Subdivision: **Total Stories:** Mixon Owner Name: PlatBook: Worst Case: Yes # of Units: 1 1557 Noegel Rd. Street: 135 Rotate Angle: Builder Name: Columbia County: Cross Ventilation: Permit Office: City, State, Zip: Lake City, Whole House Fan: Jurisdiction: 32055 FL, Single-family Family Type: New (From Plans) New/Existing: Comment: **CLIMATE** Design **Daily Temp** Int Design Temp Heating Design Temp Range Degree Days Moisture 2.5 % Winter Summer 97.5 % **TMY Site Design Location** 1305.5 51 Medium 70 75 92 FL\_GAINESVILLE\_REGI 32 FL, Gainesville **BLOCKS** Volume Area Name Number 15222.2 1834 Block1 1 **SPACES** Finished Cooled Heated Infil ID Kitchen Occupants Bedrooms Volume Area Number Name Yes Yes Yes 3 1 6 15222.2 Yes 1834 Main 1 **FLOORS** Wood Carpet Tile Perimeter R-Value Area Floor Type Space 0.3 0.4 0.3 196 ft 1834 ft<sup>2</sup> 1 Slab-On-Grade Edge Insulatio Main **ROOF** Pitch **Emitt Emitt** Deck SA Gable Roof Rad Solar Roof Tested Insul. (deg) Tested Absor. Barr Area Color Area Materials Type 26.6 0 No N 0.92 No 0.9Dark O ft<sup>2</sup> Composition shingles 2051 ft<sup>2</sup> Hip **ATTIC** IRCC RBS Vent Ratio (1 in) Area Ventilation # Туре

1

#

1

Full attic

Ceiling Type

Under Attic (Vented)

300

**CEILING** 

R-Value

38

Vented

Space

Main

Truss Type

Wood

N

Framing Frac

Ν

Area

1890 ft<sup>2</sup>

1834 ft<sup>2</sup>

Ins Type

Blown

FOR	М	R40	15-3	วก 1	7
1 011	IVI	177	J-J-4	_ \	

### INPUT SUMMARY CHECKLIST REPORT

					W	ALLS							
V #	Omt	Adjacent To V	Vall Type	Space	Cavity R-Valu		dth In	Height Ft In	A	Sheathing	Framing	Solar	Belov
1	N=>SE		Frame - Wood	Main	13	20	7	8	Area 164.7 ft		Fraction 0.23	—Absor. 0.75	_ Grade
2	E=>SW	Exterior F	Frame - Wood	Main	13	12	4	8	98.7 ft²		0.23	0.75	(
3	N=>SE	Exterior F	rame - Wood	Main	13	17		8	136.0 ft		0.23	0.75	(
4	E=>SW	Exterior F	Frame - Wood	Main	13	12	4	8	98.7 ft²		0.23	0.75	(
5	N=>SE	Exterior F	rame - Wood	Main	13	17	5	8	139.3 ft <sup>2</sup>		0.23	0.75	(
6	E=>SW	Exterior F	rame - Wood	Main	13	14		8	112.0 ft <sup>2</sup>		0.23	0.75	(
7	N=>SE	Exterior F	rame - Wood	Main	13	2		8	16.0 ft²		0.23	0.75	
8	E=>SW	Exterior F	rame - Wood	Main	13	15		8	120.0 ft²		0.23	0.75	0
9	S=>NW	Exterior F	rame - Wood	Main	13	14		8	112.0 ft²		0.23	0.75	
10	S=>NW	Exterior F	rame - Wood	Main	13	23	9	8 0	190.0 ft²		0.23	0.75	0
11	S=>NW	Exterior F	rame - Wood	Main	13	19	3	8	154.0 ft²		0.23	0.75	0
12	W=>NE	Exterior F	rame - Wood	Main	13	29		8	232.0 ft²		0.23	0.75	0
					DO	ORS							
$\sqrt{}$	#	Ornt	Door Type	Space			Storms	U-Va		Width	Height		Area
	1	N=>SE	Insulated	Main			None		F			<u>n</u>	
	2	E=>SW	Insulated	Main			None	.4	3				O ft²
	3	S=>NW	Insulated	Main								8 2	O ft²
							None	.4	3	1	6 8	В 2	O ft²
					WINE	ows					6 8	8 2	0 ft²
		N/oll		n shown is the	WINE entered orio	OWS entation					6 8	8 2	0 ft²
✓	# Orn	Wall t ID Fram	Orientatio	n shown is the	entered orio	entation	(=>) cha	anged to W	/orst Case. Over	thang			0 ft²
✓		t ID Fram	Orientatio e Panes	n shown is the	entered orion	entation SHGC	(=>) cha	anged to W	orst Case. Over Depth	rhang Separation	6 8		
✓ 	1 N=>S	t ID Fram E 1 Meta	Orientatio  e Panes  I Low-E Double	n shown is the  NFRC  Yes	U-Factor	SHGC 0.2	(=>) cha	Area 15.0 ft²	/orst Case. Over Depth 0 ft 20 in	rhang Separation 0 ft 6 in			
✓ —	1 N=>S 2 E=>S	t ID Fram E 1 Meta W 2 Meta	Orientatio  e Panes I Low-E Double I Low-E Double	NFRC Yes Yes	U-Factor 0.3 0.3	SHGC 0.2 0.2	(=>) cha Imp N N	Area 15.0 ft² 20.0 ft²	/orst Case.  Over Depth  0 ft 20 in	rhang Separation 0 ft 6 in 0 ft 6 in	Int Shad		creenin
✓ 	1 N=>S 2 E=>S 3 N=>S	t ID Fram EE 1 Meta W 2 Meta EE 3 Meta	Orientatio  e Panes  I Low-E Double  I Low-E Double  I Low-E Double	NFRC Yes Yes Yes	U-Factor 0.3 0.3 0.3	SHGC 0.2 0.2 0.2	(=>) cha	Area 15.0 ft <sup>2</sup> 20.0 ft <sup>2</sup> 32.0 ft <sup>2</sup>	Over Depth 0 ft 20 in 0 ft 20 in 0 ft 20 in	rhang Separation 0 ft 6 in 0 ft 6 in 0 ft 6 in	Int Shad	de S	creenin None
✓ —	1 N=>S 2 E=>S 3 N=>S 4 E=>S	t ID Fram EE 1 Meta W 2 Meta EE 3 Meta W 4 Meta	Orientatio  e Panes  I Low-E Double  I Low-E Double  I Low-E Double  I Low-E Double	NFRC Yes Yes Yes Yes Yes Yes	U-Factor 0.3 0.3 0.3 0.3	SHGC 0.2 0.2 0.2 0.2	(=>) cha Imp N N N	Area 15.0 ft² 20.0 ft² 32.0 ft² 24.0 ft²	Over Depth Oft 20 in	rhang Separation  0 ft 6 in 0 ft 6 in 0 ft 6 in 0 ft 6 in	Int Shad None None	de S	creenin None None
✓ 	1 N=>S 2 E=>S 3 N=>S 4 E=>S 5 N=>S	t ID Fram E 1 Meta W 2 Meta E 3 Meta W 4 Meta E 5 Meta	Orientatio  e Panes  I Low-E Double	NFRC Yes Yes Yes Yes Yes Yes Yes	U-Factor 0.3 0.3 0.3 0.3 0.3 0.3	SHGC 0.2 0.2 0.2 0.2 0.2	(=>) cha Imp N N N N	Area 15.0 ft² 20.0 ft² 32.0 ft² 24.0 ft² 4.0 ft²	Over Depth 0 ft 20 in	rhang Separation  0 ft 6 in	Int Shad None None None	de S	creenin None None None
✓ 	1 N=>S 2 E=>S 3 N=>S 4 E=>S' 5 N=>S 6 E=>S'	t ID Fram  E 1 Meta  W 2 Meta  E 3 Meta  W 4 Meta  E 5 Meta  W 8 Meta	Orientatio  e Panes  Low-E Double	NFRC Yes Yes Yes Yes Yes Yes Yes Yes Yes	U-Factor 0.3 0.3 0.3 0.3 0.3 0.3 0.3	SHGC 0.2 0.2 0.2 0.2 0.2 0.2	(=>) cha Imp N N N	Area 15.0 ft <sup>2</sup> 20.0 ft <sup>2</sup> 32.0 ft <sup>2</sup> 24.0 ft <sup>2</sup> 4.0 ft <sup>2</sup> 5.0 ft <sup>2</sup>	Over Depth  Oft 20 in	rhang Separation Oft 6 in	None None None None	de S	None None None None None
✓ 	1 N=>S 2 E=>S 3 N=>S 4 E=>S 5 N=>S 6 E=>S 7 S=>N	t ID Fram E 1 Meta W 2 Meta E 3 Meta W 4 Meta E 5 Meta W 8 Meta W 10 Metal	Orientatio  e Panes  Low-E Double	NFRC Yes	U-Factor  0.3  0.3  0.3  0.3  0.3  0.3  0.3  0.	SHGC 0.2 0.2 0.2 0.2 0.2 0.2 0.2	(=>) cha	Area 15.0 ft² 20.0 ft² 32.0 ft² 24.0 ft² 4.0 ft² 5.0 ft² 40.0 ft²	Over Depth  O ft 20 in  8 ft 6 in	rhang Separation  Oft 6 in	None None None None None	de Si	None None None None None None
✓ 	1 N=>S 2 E=>S 3 N=>S 4 E=>S' 5 N=>S 6 E=>SI 7 S=>NI 8 S=>NI	t ID Fram  E 1 Meta  W 2 Meta  E 3 Meta  W 4 Meta  E 5 Meta  W 8 Meta  W 10 Meta  W 11 Metal	Orientatio  e Panes  Low-E Double	NFRC Yes	U-Factor  0.3  0.3  0.3  0.3  0.3  0.3  0.3  0.	SHGC 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	(=>) cha	Area 15.0 ft² 20.0 ft² 32.0 ft² 24.0 ft² 4.0 ft² 4.0 ft² 40.0 ft² 20.0 ft²	Over Depth  Oft 20 in	rhang Separation  Oft 6 in	Int Shad None None None None	de S	None None None None None None
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\	1 N=>S 2 E=>S 3 N=>S 4 E=>S' 5 N=>S 6 E=>SI 7 S=>NI 8 S=>NI	t ID Fram  E 1 Meta  W 2 Meta  E 3 Meta  W 4 Meta  E 5 Meta  W 8 Meta  W 10 Meta  W 11 Meta  E 12 Meta	Orientatio  e Panes  Low-E Double	NFRC Yes	U-Factor  0.3  0.3  0.3  0.3  0.3  0.3  0.3  0.	SHGC 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	(=>) cha	Area 15.0 ft² 20.0 ft² 32.0 ft² 24.0 ft² 4.0 ft² 4.0 ft² 40.0 ft² 20.0 ft²	Over Depth  Oft 20 in  Oft 20 in	thang Separation Oft 6 in	None None None None None None None None	de Si	None None None None None None None None
✓ ————————————————————————————————————	1 N=>S 2 E=>S 3 N=>S 4 E=>S' 5 N=>S 6 E=>S' 7 S=>N' 8 S=>N' 9 W=>N	t ID Fram  E 1 Meta  W 2 Meta  E 3 Meta  W 4 Meta  E 5 Meta  W 8 Meta  W 10 Meta  W 11 Meta  E 12 Meta	Orientatio  Panes Low-E Double	NFRC Yes	U-Factor  0.3  0.3  0.3  0.3  0.3  0.3  0.3  0.	SHGC 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	(=>) cha	Area 15.0 ft <sup>2</sup> 20.0 ft <sup>2</sup> 32.0 ft <sup>2</sup> 24.0 ft <sup>2</sup> 4.0 ft <sup>2</sup> 40.0 ft <sup>2</sup> 20.0 ft <sup>2</sup>	Over Depth  Oft 20 in	thang Separation Oft 6 in	Int Shad None None None None None None None None	de Si	None None None None None None None None
	1 N=>S 2 E=>S 3 N=>S 4 E=>S' 5 N=>S 6 E=>S' 7 S=>N' 8 S=>N' 9 W=>N	t ID Fram  E 1 Meta  W 2 Meta  E 3 Meta  W 4 Meta  E 5 Meta  W 8 Meta  W 10 Meta  W 11 Meta  E 12 Meta	Orientatio  Panes Low-E Double	NFRC Yes	U-Factor  0.3  0.3  0.3  0.3  0.3  0.3  0.3  0.	SHGC 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	(=>) cha	Area 15.0 ft <sup>2</sup> 20.0 ft <sup>2</sup> 32.0 ft <sup>2</sup> 24.0 ft <sup>2</sup> 4.0 ft <sup>2</sup> 40.0 ft <sup>2</sup> 20.0 ft <sup>2</sup>	Over Depth  Oft 20 in	thang Separation Oft 6 in	Int Shad None None None None None None None	de Si	None None None None None None None None

FORM R405-2017	<b>INPUT SUMMARY</b>	CHECKLIST REPORT
		<del></del>

						HEAT	TING SYS	TEM						-
$\sqrt{}$	#	System Type		Sub	type			Efficiency	Ca	pacity			Block	Ducts
	1	Electric Heat Po	ump/	Nor	ne			HSPF:8.9	31 k	Btu/hr			1	sys#1
						COOL	ING SYS	TEM						<u> </u>
$\vee$	#	System Type		Sub	type			Efficiency	Capacity	Air i	low	SHR	Block	Ducts
	1	Central Unit/		Nor	ne			SEER: 16	31 kBtu/hi	930	cfm	0.75	1	sys#1
						нот w	ATER SY	STEM						·
$\vee$	#	System Type	SubType	L	ocation	EF	Ca	р	Use	SetPnt		Co	nservatio	n
	1	Electric	None	M	ain	0.95	50 (	gal	60 gal	120 deg			None	
_					SOL	AR HO	T WATER	SYSTE	M					
	FSEC		1			04	NA1 - 1 - H	0-	114544-		llector		_	
	Cert		lame			System	Model #		llector Mode	1#	Area	Volu	ıme	FEF
	None	None None									ft²			
							DUCTS							
$\checkmark$	#	Sup Location R	ply -Value Area	a 1	Ref	turn Area	l eaka	де Туре	Air Handler	CFM 25 TOT	CFM2		RLF	HVAC # Heat Coo
<u>.</u>	1	Attic	6 366.8		Attic	91.7 ft²		Leakage	Main	(Default)				1 1
					7 11112		PERATU			(======	(5-6-16	,		<u> </u>
Program	able Th	nermostat: Y			C	eiling Fans	 S:							
Cooling Heating Venting		Jan [ ] Feb Jan [ ] Feb Jan [ ] Feb	[ ] Mar [X] Mar [X] Mar		Apr Apr	May May May	[X] Jun [ ] Jun [ ] Jun	[X] Jul   Jul   Jul	[X] Aug [ ] Aug [ ] Aug	[X] Ser [ ] Ser [ ] Ser		Oct Oct X) Oct	[ ] Nov [X] Nov [X] Nov	Dec X Dec Dec
Thermosta		dule: HERS 20	06 Referenc					Но						
Schedule 1			1	2	3	4	5	6	7	8	9	10	11	12
Cooling (W	VD)	AM PM	78 80	78 80	78 78	78 78	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78
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	78 78
Heating (V	VD)	AM PM	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66
Heating (V	VEH)	AM PM	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66
		1 141			- 00		MASS					- 00	00	00_
Ma	ass Typ	e		Ar	ea		Thickness	F	Furniture Fra	ction		Space		
De	efault(8	lbs/sq.ft.		0	ft²		0 ft		0.3			Main		

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

#### **ESTIMATED ENERGY PERFORMANCE INDEX\* = 99**

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 Main
3. No. of units (if multiple-family)	31	c) And location wall
4. Number of bedrooms	43	13. Cooling system: Capacity 31.0 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.)	61834	d) Room unit/PTAC EER
<ul> <li>7. Windows, type and area</li> <li>a) U-factor:(weighted average)</li> <li>b) Solar Heat Gain Coefficient (SHGC)</li> <li>c) Area</li> </ul> 8. Skylights	7a. 0.300 7b. 0.200 7c. 182.0	14. Heating system: Capacity 31.0 a) Split system heat pump HSPF b) Single package heat pump HSPF
a) U-factor:(weighted average)     b) Solar Heat Gain Coefficient (SHGC)	8a. <u>NA</u> 8b. <u>NA</u>	c) Electric resistance COP d) Gas furnace, natural gas AFUE e) Gas furnace, LPG AFUE f) Other 8.90
<ul><li>9. Floor type, insulation level:</li><li>a) Slab-on-grade (R-value)</li><li>b) Wood, raised (R-value)</li><li>c) Concrete, raised (R-value)</li></ul>	9a. 0.0 9b. 9c. 9c.	15. Water heating system a) Electric resistance EF 0.95
<ul> <li>10. Wall type and insulation:</li> <li>A. Exterior:</li> <li>1. Wood frame (Insulation R-value)</li> <li>2. Masonry (Insulation R-value)</li> <li>B. Adjacent:</li> <li>1. Wood frame (Insulation R-value)</li> </ul>	10A113.0 10A2	b) Gas fired, natural gas
2. Masonry (Insulation R-value)  11. Ceiling type and insulation level a) Under attic b) Single assembly c) Knee walls/skylight walls d) Radiant barrier installed	11a. 38.0 11b. 11c. No	16. HVAC credits claimed (Performance Method) a) Ceiling fans b) Cross ventilation c) Whole house fan d) Multizone cooling credit e) Multizone heating credit f) Programmable thermostat
*Label required by Section R303.1.3 of the Flo	orida Building Code, Ener	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 instal	eded) in this home before	e final inspection. Otherwise, a new EPL
Builder Signature:		Date:
Address of New Home: 1557 Noegel Rd.		City/FL Zip: Lake City, FL 32055

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

AΠ	DRE	ESS:
$\sim$	DIV	_00.

Permit Number:

1557 Noegel Rd. Lake City , FL , 32055

MAN	NDATORY REQUIREMENTS See individual code sections for full details.
$\checkmark$	SECTION R401 GENERAL
	R401.3 Energy Performance Level (EPL) display card (Mandatory). The building official shall require that an energy performance level (EPL) display card be completed and certified by the builder to be accurate and correct before final approval of the building for occupancy. Florida law (Section 553.9085, Florida Statutes) requires the EPL display card to be included as an addendum to each sales contract for both presold and nonpresold residential buildings. The EPL display card contains information indicating the energy performance level and efficiencies of components installed in a dwelling unit. The building official shall verify that the EPL display card completed and signed by the builder accurately reflects the plans and specifications submitted to demonstrate code compliance for the building. A copy of the EPL display card can be found in Appendix RD.
	R402.4 Air leakage (Mandatory). The building thermal envelope shall be constructed to limit air leakage in accordance with the requirements of Sections R402.4.1 through R402.4.5.
	<b>Exception:</b> Dwelling units of R-2 Occupancies and multiple attached single family dwellings shall be permitted to comply with Section C402.5.
	R402.4.1 Building thermal envelope building thermal envelope shall comply with Sections R402.4.1.1 and R402.4.1.2. The sealing methods between dissimilar materials shall allow for differential expansion and contraction.
	<b>R402.4.1.1 Installation.</b> The components of the building thermal envelope as listed in Table R402.4.1.1 shall be installed in accordance with the manufacturer's instructions and the criteria listed in Table R402.4.1.1, as applicable to the method of construction. Where required by the code official, an approved third party shall inspect all components and verify compliance.
	R402.4.1.2 Testing. The building or dwelling unit shall be tested and verified as having an air leakage rate not exceeding seven air changes per hour in Climate Zones 1 and 2, and three air changes per hour in Climate Zones 3 through 8. 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 Statutes, 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.
	<b>Exception:</b> Testing is not required for additions, alterations, renovations, or repairs, of the building thermal envelope of existing buildings in which the new construction is less than 85 percent of the building thermal envelope.
	During testing:  1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures.  2. Dampers including exhaust, intake, makeup air, backdraft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures.  3. Interior doors, if installed at the time of the test, shall be open.  4. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed.  5. Heating and cooling systems, if installed at the time of the test, shall be turned off.  6. Supply and return registers, if installed at the time of the test, shall be fully open.
	<b>R402.4.2 Fireplaces.</b> New wood-burning fireplaces shall have tight-fitting flue dampers or doors, and outdoor combustion air. Where using tight-fitting doors on factory-built fireplaces listed and labeled in accordance with UL 127, the doors shall be tested and listed for the fireplace. Where using tight-fitting doors on masonry fireplaces, the doors shall be listed and labeled in accordance with UL 907.
	R402.4.3 Fenestration air leakage\( Vindows\), skylights and sliding glass doors shall have an air infiltration rate of no more than 0.3 cfm per square foot (1.5 L/s/m2), and swinging doors no more than 0.5 cfm per square foot (2.6 L/s/m2), when tested according to NFRC 400 or AAMA/ WDMA/CSA 101/I.S.2/A440 by an accredited, independent laboratory and listed and labeled by the manufacturer.
	Exception: Site-built windows, skylights and doors.

MAND	ATORY REQUIREMENTS - (Continued)
combusti room, iso R402.1.2 gasketed	Rooms containing fuel-burning appliances. In Climate Zones 3 through 8, where open combustion air ducts provide combustion air to open on fuel burning appliances, the appliances and combustion air opening shall be located outside the building thermal envelope or enclosed in a lated from inside the thermal envelope. Such rooms shall be sealed and insulated in accordance with the envelope requirements of Table, 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 and any water lines and ducts in the room insulated in accordance with Section R403. The combustion air duct shall be insulated where it be the rough conditioned space to a minimum of R-8.
	Exceptions:
	<ol> <li>Direct vent appliances with both intake and exhaust pipes installed continuous to the outside.</li> <li>Fireplaces and stoves complying with Section R402.4.2 and Section R1006 of the Florida Building Code, Residential.</li> </ol>
condition 2.0 cfm (0	Recessed lighting. Recessed luminaires installed in the building thermal envelope shall be sealed to limit air leakage between ed and unconditioned spaces. All recessed luminaires shall be IC-rated and labeled as having an air leakage rate not more than 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 the a gasket or caulk between the housing and the interior wall or ceiling covering.
R403.1 Cd	SECTION R403 SYSTEMS
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 at, except during defrost, prevent supplemental heat operation when the heat pump compressor can meet the heating load.
_	3.2 Sealing (Mandatory) 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.
П	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:
	14-03.3.3 Duct testing (mandatory). Ducts shall be pressure tested to determine all 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 malair handler enclosure if installed at the time of the test. All registers shall be taped or otherwise sealed during the test.
	<ol> <li>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.</li> </ol>
	Exceptions:
	<ol> <li>A duct air leakage test shall not be required where the ducts and air handlers are located entirely within the building thermal envelope.</li> </ol>
	<ol><li>Duct testing is not mandatory for buildings complying by Section 405 of this code.</li></ol>
	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 M below 55°	echanical system piping insulation (Mandatory). Mechanical system piping capable of carrying fluids above 105°F (41°C) or F (13°C) shall be insulated to a minimum of R-3.
	<b>R403.4.1 Protection of piping insulation.</b> 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.
ш ,	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.
	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 times when heated water is used in the occupancy.

M	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 Ta 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:
	<ol> <li>Be installed with a tilt angle between 10 degrees and 40 degrees of the horizontal; and</li> <li>Be installed at an orientation within 45 degrees of true south.</li> </ol>
	R403.6 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.
	<b>Exception:</b> 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:
	<ol> <li>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.</li> </ol>
	<ol> <li>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.</li> </ol>
	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 <sup>a</sup> (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	Апу

For SI: 1 cfm = 28.3 L/min.

When tested in accordance with HVI Standard 916

MΑ	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:
	<ol> <li>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.</li> </ol>
	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:
	1. A separate cooling or heating system is utilized to provide cooling or heating to the major entertainment areas.
	<ol> <li>A variable capacity system sized for optimum performance during base load periods is utilized.</li> </ol>
	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.
	<b>R403.10.2 Time switches.</b> 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 evaluatively from an after repowable generation.
	<ol><li>Where pumps are powered exclusively from on-site renewable generation.</li><li>R403.10.3 Covers. Outdoor heated swimming pools and outdoor permanent spas shall be equipped with a vapor-retardant cover on or at</li></ol>
	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.

	<b>R403.10.5</b> 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 (Mandator) e energy consumption of electric-powered portable spas shall be controlled by the requirements of APSP-14.
	SECTION R404
EI	LECTRICAL POWER AND LIGHTING SYSTEMS
	<b>R404.1 Lighting equipment (Mandatory).</b> 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

Project Name:

191079 Mixon

1557 Noegel Rd.

Builder Name:

Street: City, State, Zip:

Lake City , FL , 32055

Permit Office: Permit Number:

Owner:	Mixon Jurisdiction:		CHEC
Design Location:	FL, Gainesville		$\vdash$
COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA	
General requirements	A continuous air barrier shall be installed in the building envelope. The exterior thermal envelope contains a continuous air barrier. Breaks or joints in the air barrier shall be sealed.	Air-permeable insulation shall not be used as a sealing material.	
Ceiling/attic	The air barrier in any dropped ceiling/soffit shall be aligned with the insulation and any gaps in the air barrier shall be sealed.  Access openings, drop down stairs or knee wall doors to unconditioned attic spaces shall be sealed.	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 conditioned space	pes.	
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.	Exterior walls adjacent to showers and tubs shall be insulated.	
Electrical/phone box o exterior walls	The air barrier shall be installed behind electrical or communication boxes or air-sealed boxes shall be installed.		
HVAC register boots	HVAC register boots that penetrate building thermal envelope shall be sealed to the sub-floor or drywall.		
Concealed sprinklers	When required to be sealed, concealed fire sprinklers shall only be sealed in a manner that is recommended by the manufacturer.  Caulking or other adhesive sealants shall not be used to fill voids 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.

X

### **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	Information		
Buil	lder: Commu	nity: Lot: NA	
Add	dress: 1557 Noegel Rd.		
City	r: Lake City	State: FL Zip: 32055	
Air	Leakage Test Results Passing results I	must meet either the Performance, Prescriptive, or ERI Method	
С	PRESCRIPTIVE METHOD-The building or dwelling unit changes per hour at a pressure of 0.2 inch w.g. (50 Pas	it shall be tested and verified as having an air leakage rate of not exceeding 7 ai scals) in Climate Zones 1 and 2.	r
the	selected ACH(50) value, as shown on Form R405-2017 (F	elling unit shall be tested and verified as having an air leakage rate of not exceed Performance) or R406-2017 (ERI), section labeled as infiltration, sub-section AC 7-Energy Calc (Performance) or R406-2017 (ERI):  7.000	
	CFM(50) x 60 ÷ 15222 = A0  PASS	Method for calculating building volume:  CH(50)  Retrieved from architectural plans  Code software calculated	
	When ACH(50) is less than 3, Mechanical Venus be verified by building department.		
Tes 489	sting shall be conducted by either individuals as defined in \$0.105(3)(f), (g), or (i) or an approved third party. A written re	with ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 Pa Section 553.993(5) or (7), Florida Statues.or individuals licensed as set forth in Seport of the results of the test shall be signed by the party conducting the test and time after creation of all penetrations of the building thermal envelope.	Section
1. E	trol measures.	be closed, but not sealed, beyond the intended weatherstripping or other infiltra	
3. li 4. E 5. H	asures.  Interior doors, if installed at the time of the test, shall be ope  Exterior doors for continuous ventilation systems and heat re  Heating and cooling systems, if installed at the time of the test  Supply and return registers, if installed at the time of the test	en. recovery ventilators shall be closed and sealed. est, shall be turned off.	
Te	esting Company		
۱ħ	ompany Name:	n accordance with the 2017 6th Edition Florida Building Code	
	ignature of Tester:		
	rinted Name of Tester:		
		Issuing Authority:	

## **Residential System Sizing Calculation**

Summary Project Title:

Mixon 1557 Noegel Rd. Lake City, FL 32055 191079 Mixon

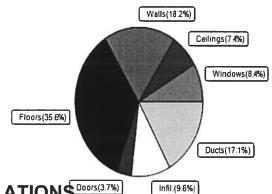
2019-09-25

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(TMY3 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	25976	Btuh	Total cooling load calculation	23438	Btuh		
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh		
Total (Electric Heat Pump)	119.3	31000	Sensible (SHR = 0.75)	118.1	23250		
Heat Pump + Auxiliary(0.0kW)	119.3	31000	Latent	206.9	7750		
			Total (Electric Heat Pump)	132.3	31000		

#### **WINTER CALCULATIONS**

Winter Heating Load (for 1834 sqft)

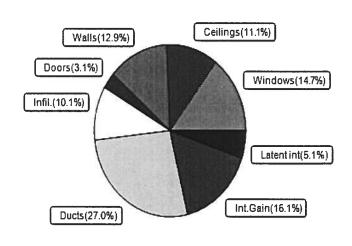
Transcription (10)	100104117			
Load component			Load	
Window total	182	sqft	2184	Btuh
Wall total	1331	sqft	4727	Btuh
Door total	60	sqft	960	Btuh
Ceiling total	1890	sqft	1919	Btuh
Floor total	1834	sqft	9251	Btuh
Infiltration	57	cfm	2506	Btuh
Duct loss			4430	Btuh
Subtotal			25976	Btuh
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			25976	Btuh



### SUMMER CALCULATIONS Doors (3.7%)

Summer Cooling Load (for 1834 sqft)

Load component			Load	
Window total	182	sqft	3444	Btuh
Wall total	1331	sqft	3013	Btuh
Door total	60	sqft	720	Btuh
Ceiling total	1890	sqft	2590	Btuh
Floor total			0	Btuh
Infiltration	43	cfm	893	Btuh
Internal gain			3780	Btuh
Duct gain			5251	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Blower Load			0	Btuh
Total sensible gain			19692	Btuh
Latent gain(ducts)			1065	Btuh
Latent gain(infiltration)			1481	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occup	1200	Btuh		
Total latent gain			3746	Btuh
TOTAL HEAT GAIN			23438	Btuh





EnergyGauge® System Sizing PREPARED BY: Evan Beamsley DATE: 2019-09-25

### **System Sizing Calculations - Winter**

### Residential Load - Whole House Component Details

Mixon 1557 Noegel Rd. Lake City, FL 32055 Project Title: 191079 Mixon Building Type: User

2019-09-25

Reference City: Gainesville, FL (Defaults) Winter Temperature Difference: 40.0 F (TMY3 99%) This calculation is for Worst Case. The house has been rotated 225 degrees.

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

Window	Panes/Type	Frame U	Orientation	Area(sqft) X	HTM=	Load
1	2, NFRC 0.20	Metal 0.30	SW	15.0	12.0	180 Btuh
2	2, NFRC 0.20	Metal 0.30	NW	20.0	12.0	240 Btuh
3	2, NFRC 0.20	Metal 0.30	SW	32.0	12.0	384 Btuh
4	2, NFRC 0.20	Metal 0.30	NW	24.0	12.0	288 Btuh
5	2, NFRC 0.20	Metal 0.30	SW	4.0	12.0	48 Btuh
6	2, NFRC 0.20	Metal 0.30	NW	5.0	12.0	60 Btuh
7	2, NFRC 0.20	Metal 0.30	NE	40.0	12.0	480 Btuh
8	2, NFRC 0.20	Metal 0.30	NE	20.0	12.0	240 Btuh
9	2, NFRC 0.20	Metal 0.30	SE	18.0	12.0	216 Btuh
10	2, NFRC 0.20	Metal 0.30	SE	4.0	12.0	48 Btuh
	Window Total			182.0(sqft)		2184 Btuh
Walls	Туре	Ornt. Ueff.	R-Value (Cav/Sh)	Area X	HTM=	Load
1	Frame - Wood	- Ext (0.089)	13.0/0.0	150	3.55	531 Btuh
2	Frame - Wood	- Ext (0.089)	13.0/0.0	79	3.55	279 Btuh
3	Frame - Wood	- Ext (0.089)	13.0/0.0	84	3.55	298 Btuh
4	Frame - Wood	- Ext (0.089)	13.0/0.0	75	3.55	265 Btuh
5	Frame - Wood	- Ext (0.089)	13.0/0.0	135	3.55	480 Btuh
6	Frame - Wood	- Ext (0.089)	13.0/0.0	92	3.55	327 Btuh
7	Frame - Wood	- Ext (0.089)	13.0/0.0	16	3.55	57 Btuh
8	Frame - Wood	- Ext (0.089)	13.0/0.0	115	3.55	408 Btuh
9	Frame - Wood	- Ext (0.089)	13.0/0.0	112	3.55	398 Btuh
10	Frame - Wood	- Ext (0.089)	13.0/0.0	130	3.55	462 Btuh
11	Frame - Wood	- Ext (0.089)	13.0/0.0	134	3.55	476 Btuh
12	Frame - Wood	- Ext (0.089)	13.0/0.0	210	3.55	746 Btuh
	Wall Total			1331(sqft)		4727 Btuh
Doors	Туре	Storm Ueff.		Area X	HTM=	Load
1	Insulated - Exter	ior, n (0.400)		20	16.0	320 Btuh
2	Insulated - Exter	ior, n (0.400)		20	16.0	320 Btuh
3	Insulated - Exter	ior, n (0.400)		20	16.0	320 Btuh
	Door Total			60(sqft)		960Btuh
Ceilings	Type/Color/Surfa		R-Value	Area X	HTM=	Load
1	Vented Attic/D/S	hing (0.025)	38.0/0.0	1890	1.0	1919 Btuh
	Ceiling Total			1890(sqft)_		1919Btuh
Floors	Type	Ueff.	R-Value	Size X	HTM=	Load
1	Slab On Grade	(1.180	) 0.0	196.0 ft(peri	m.) 47.2	9251 Btuh
	Floor Total			1834 sqft	<del></del>	9251 Btuh
				Envelope Subto	tal:	19041 Btuh

### **Manual J Winter Calculations**

Residential Load - Component Details (continued)
Project Title:

Mixon 1557 Noegel Rd. Lake City, FL 32055

191079 Mixon **Building Type: User** 

2019-09-25

All Zones		5	Sensible Subt	otal All Zon	es	25976 Btuh
Duct load	Average seal	ed, R6.0, Supply(Att), Re	eturn(Att)	(DLM of	0.206)	4430 Btuh
Infiltration	Type Natural	Wholehouse ACH 0.23	Volume(cuft) 15222	Wall Ratio 1.00	CFM= 57.2	2506 Btuh

#### WHOLE HOUSE TOTALS

#### **EQUIPMENT**

1. Electric Heat Pump	#	31000 Btuh

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

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



Version 8

### **System Sizing Calculations - Summer**

Residential Load - Whole House Component Details
Project Title:

Mixon 1557 Noegel Rd. Lake City, FL 32055 191079 Mixon

2019-09-25

Reference City: Gainesville, FL Temperature Difference: 19.0F(TMY3 99%) Humidity difference: 51gr. This calculation is for Worst Case. The house has been rotated 225 degrees.

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

	Type*	k			Over	hang	Wind	ow Area	a(sqft)	Н	TM	Load	
Window	Panes SHGC U		IS (	Ornt	Len	Hgt				Shaded	Unshaded		
1	2 NFRC 0.20, 0.30		No	SW	1.7ft.	0.5ft.	15.0	6.7	8.3	10	20	232	Btuh
2	2 NFRC 0.20, 0.30	No	No	NW	1.7ft.	0.5ft.	20.0	0.0	20.0	10	19	383	Btuh
3	2 NFRC 0.20, 0.30	No	No	SW	1.7ft.	0.5ft.	32.0	17.9	14.1	10	20	459	Btuh
4	2 NFRC 0.20, 0.30	No	No	NW	1.7ft.	0.5ft.	24.0	0.0	24.0	10	19	459	Btul
5	2 NFRC 0.20, 0.30	No	No	SW	1.7ft.	0.5ft.	4.0	4.0	0.0	10	20	40	Btul
6	2 NFRC 0.20, 0.30	No	No	NW	1.7ft.	0.5ft.	5.0	0.0	5.0	10	19	96	Btul
7	2 NFRC 0.20, 0.30		No	NE	8.5ft.	0.5ft.	40.0	0.0	40.0	10	19	766	Btul
8	2 NFRC 0.20, 0.30		No	NE		0.5ft.	20.0	0.0	20.0	10	19	383	Btut
9	2 NFRC 0.20, 0.30		No	SE	1.7ft.	0.5ft.	18.0	13.5	4.5	10	20	224	Btul
10	2 NFRC 0.20, 0.30	No	No	SE	1.7ft.	0.5ft.	4.0	4.0	0.0	10	20	40	Btul
	Excursion												Btul
	Window Total						182 (s	<u> </u>				3444	Btul
Walls	Туре			U	-Value	e R-V	/alue	Area(	(sqft)		HTM	Load	
						Cav/S	heath						
1	Frame - Wood - Ext			(	0.09	13.0	/0.0	149	9.7		2.3	339	Btul
2	Frame - Wood - Ext			(	0.09	13.0		78	.7		2.3	178	Btul
3	Frame - Wood - Ext			(	0.09	13.0	/0.0	84			2.3	190	Btul
4	Frame - Wood - Ext				0.09	13.0		74			2.3	169	Btul
5	Frame - Wood - Ext				0.09	13.0		135			2.3	306	Btul
6	Frame - Wood - Ext				0.09	13.0		92			2.3	208	Btul
7	Frame - Wood - Ext				0.09	13.0		16			2.3	36	Btul
8	Frame - Wood - Ext				0.09	13.0		115			2.3	260	Btul
9	Frame - Wood - Ext				0.09	13.0		112			2.3	253	Btul
10	Frame - Wood - Ext				0.09	13.0		130			2.3	294	Btul
11	Frame - Wood - Ext				0.09	13.0		134			2.3	303	
12	Frame - Wood - Ext			(	0.09	13.0	/0.0	210			2.3		Btul
<u> </u>	Wall Total								1 (sqft)			3013	Btul
Doors	Туре							Area	(sqft)		HTM	Load	
1	Insulated - Exterior							20	.0		12.0	240	Btul
2	Insulated - Exterior							20			12.0		Btul
3	Insulated - Exterior							20	0.0		12.0	240	Btul
	Door Total							6	0 (sqft)			720	Btul
Ceilings	Type/Color/Surfa	се		U.	-Value	•	R-Value	Area	(sqft)		HTM	Load	
1	Vented Attic/DarkShir	naie			0.025		38.0/0.0	189			1.37	2590	Btul
	Ceiling Total	<b>J</b>							0 (sqft)			2590	
Floors	Туре			-		R-V	/alue	Siz			НТМ	Load	
1	Slab On Grade					•	0.0		34 (ft-perir	neter)	0.0		Btul
'	Floor Total						0.0			neter)	0.0		
	FIUUI TUIAI							1034.	0 (sqft)			U	Btul
								Er	nvelope	Subtota	ı:	9768	Btuł

### **Manual J Summer Calculations**

Residential Load - Component Details (continued)

Project Title: Climate:FL\_GAINESVILLE\_REGIONAL\_A
191079 Mixon

Mixon 1557 Noegel Rd. Lake City, FL 32055

2019-09-25

			Se	nsib	le Load A	II Zones	19692	Btuh
Duct load	Average sealed, Supply	(R6.0-Attic), Return(R6.0-Attic	<b>;</b> )		(DGM of 0	).364)	5251	Btuh
				Sensi	ble Envel	ope Load:	14441	Btuh
gain		6		30	+	2400	3780	Btuh
Internal		Occupants	Btuh/o	CCUD	ant	Appliance	Load	
Infiltration	Type Natural	Average ACH 0.17	Volume(cu 1522	•	all Ratio 1	CFM= 42.9	Load 893	Btuh

### **Manual J Summer Calculations**

Residential Load - Component Details (continued)

Mixon 1557 Noegel Rd. Lake City, FL 32055

Project Title: 191079 Mixon Climate:FL\_GAINESVILLE\_REGIONAL\_A

2019-09-25

#### WHOLE HOUSE TOTALS

WHOLE HOUSE TOTALS			
ii ii	Sensible Envelope Load All Zones	14441	Btuh
	Sensible Duct Load	5251	Btuh
	Total Sensible Zone Loads	19692	Btuh
	Sensible ventilation	0	Btuh
	Blower	0	Btuh
Whole House	Total sensible gain	19692	Btuh
Totals for Cooling	Latent infiltration gain (for 51 gr. humidity difference)	1481	Btuh
	Latent ventilation gain	0	Btuh
	Latent duct gain	1065	Btuh
	Latent occupant gain (6.0 people @ 200 Btuh per person)	1200	Btuh
	Latent other gain	0	Btuh
	Latent total gain	3746	Btuh
	TOTAL GAIN	23438	Btuh

EQUIPMENT	NT CONTRACTOR OF THE PROPERTY			
1. Central Unit	#	31000 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))

(Omt - compass orientation)



Version 8

#### FLORIDA PRODUCT APPROVALS 10-16-15

1518 My

Item:	Manufacturer	Product Description:	Approval Number:
Exterior Doors:	Masonite	Inswing & Outswing Fiberglass	FL-8228-R7
	Masonite	Inswing & Outswing Steel	FL-4904-R7
	Plastpro	8'0" Inswing & Outswing Fiberglass	FL-15220-R1
	Plastpro	Inswing & Outswing Steel	FL-15962-R2
	Plastpro	6'8" Inswing & Outswing Fiberglass	FL-15215-R3 flush blued
		6'8' Fib- 61/12/cd Degr	FL-17347
Windows:	MI	Aluiminum 185 Single Hung	FL-17499
		Aluiminum 185 Picture Window	FL-15349
	> 53"X5	0" 3580 HCX.Stider	FL-13344.Z
Jin 853 (10)	vers flaving	Vinyl 3540 Single Hung	FL-17676-R1
& FINYS.	Per 16500	Vinyl 3500 Picture Window	FL-18644
	Atrium	150/160	FL-11834
	Magnolia	Vinyl 400 Single Hung	FL-16475-R3
		Vinyl 400 Picture Window	FL-16474-R2
5-16	63" X MLE"	400 Har's lider	FL 10476.1
Soffit:	Kaycan	Vinyl/PVC & Aluminum Soffit	FL-16503
		Vinyl Siding	FL-15867-R1
Underlayment:	Woodland	30# Felt	FL-17206-R3
Roofing:	Certainteed	Asphalt Shingles	FL-5444
	GAF	Asphalt Shingles	FL-10124-R16
	Tamko	Asphalt Shingles	FL-18355
	Certaintee	FINTLASTIC SBS & ALL	FL-16704,1
Siding:	Allura of Plycem	Cement board lap siding	FL-17482-R2
	James Hardie	Cement board lap siding	FL-13192-R4
Simpson		LSTA – MSTA, SPH4	FL-13872-R2
	GAF	Tiger Paw Underlayment	FL-15487-R5
Metal Roofing	3	5V Roofing Master Rib Roofing	FL-9555-R3 FL-9557-R3
90	Hudie	Canplank	13192.1

1-7-16