

Need
2 permits
Detached
Garage

2 APPS

Storage Bldg
44742

Scan Plans to both
Permits

Columbia County New Building Permit Application

For Office Use Only Application # 44304 Date Received 3/2 By MG Permit # SFD 39507 / Warren 39508
Zoning Official LW Date 3-6-20 Flood Zone X Land Use Ag Zoning A-3
FEMA Map # _____ Elevation _____ MFE _____ River _____ Plans Examiner TC Date 3-16-20
Comments _____
☐ NOC ☒ EH ☐ 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 VP Form

Detached
Garage
3950

Septic Permit No. 20-0206 OR City Water ☐ Fax _____

Applicant (Who will sign/pickup the permit) Mark Haddox Phone 386 755-2411
Address PO Box 1255 Lake City, FL 32052
Owners Name Michael Stonepainter Phone 386 188 6366
911 Address 120 SW Louis Gln, Lake City 32024
Contractors Name Mark Haddox Phone _____
Address PO Box 1255 Lake City FL 32052
Contractor Email mhaddox@bellsouth.net ***Include to get updates on this job.

Fee Simple Owner Name & Address _____
Bonding Co. Name & Address _____

Architect/Engineer Name & Address Mark Disosway PE 53915
Mortgage Lenders Name & Address 163 SW Midtown Place 103 LC, FL 32025

Circle the correct power company ☒ FL Power & Light ☐ Clay Elec. ☐ Suwannee Valley Elec. ☐ Duke Energy

Property ID Number 08-45-16-02816-005 Estimated Construction Cost \$40,000 House 20,000 garage

Subdivision Name Hobbs Heights Lot 3 Block 7 Unit 1 Phase _____

Driving Directions from a Major Road go W to Pine Mount (left)
to Berwick (left) to Louis Gln (Rt)
to property on left

Construction of Residential Home Commercial OR ☒ Residential

Proposed Use/Occupancy _____ Number of Existing Dwellings on Property 0

Is the Building Fire Sprinkled? ☒ If Yes, blueprints included _____ Or Explain _____

Circle Proposed ☐ Culvert Permit or ☒ Culvert Waiver or ☐ D.O.T. Permit or ☐ Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 104' Side 88' Side 162' Rear 516'

Number of Stories 1 Heated Floor Area 864 Total Floor Area 1440 Acreage 4.65

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.

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

TIME LIMITATIONS OF PERMITS: 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 litigation and or fines.

Michael Stonpaister
Print Owners Name

[Signature]
Owners Signature

****Property owners must sign here before any permit will be issued.**

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

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

[Signature]
Contractor's Signature

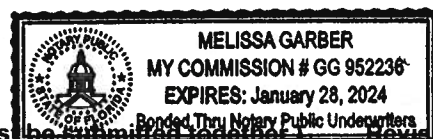
Contractor's License Number CR 1329841
Columbia County
Competency Card Number _____

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 2nd day of March 2020

Personally Known ☐ or Produced Identification FDL

[Signature]
State of Florida Notary Signature (For the Contractor)

SEAL:



Legend

Roads

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

Parcels

2018 Flood Zones

- 0.2 PCT ANNUAL CHANCE
- A
- AE
- AH

2018 Aerials

Lidar Elevations

Columbia County, FLA - Building & Zoning Property Map

Printed: Fri Mar 06 2020 09:39:08 GMT-0500 (Eastern Standard Time)



Parcel Information

Parcel No: 08-4S-16-02816-005

Owner: STONEPAINTER MICHAEL W

Subdivision: HOBBS HEIGHTS

Lot: 3

Acres: 4.65382576

Deed Acres: 4.65 Ac

District: District 2 Rocky Ford

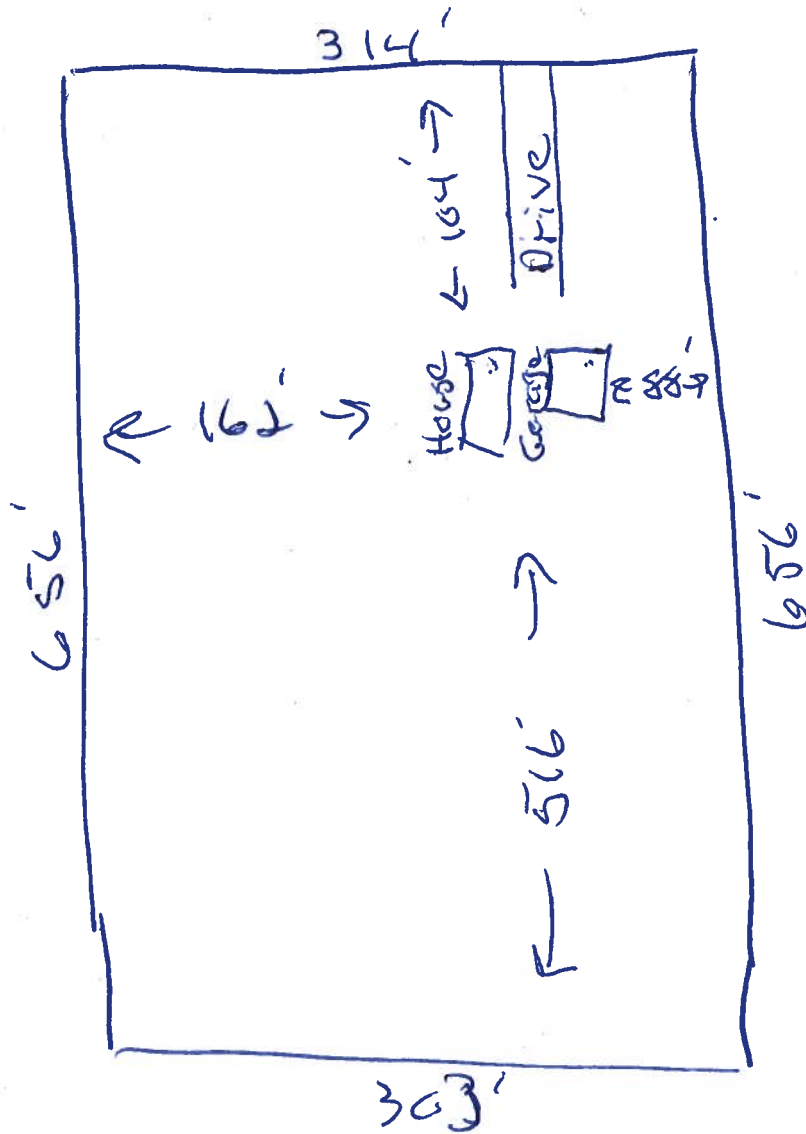
Future Land Uses: Agriculture - 3

Flood Zones:

Official Zoning Atlas: A-3

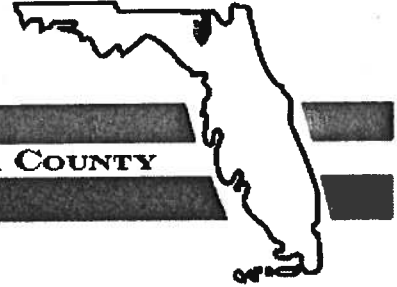
All data, information, and maps are provided "as is" without warranty or any representation of accuracy, timeliness of completeness. Columbia County, FL makes no warranties, express or implied, as to the use of the information obtained here. There are no implied warranties of merchantability or fitness 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.

Louis Gln



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

BOARD OF COUNTY COMMISSIONERS • COLUMBIA COUNTY



Address Assignment and Maintenance Document

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

Date/Time Issued: **1/9/2020 4:36:23 PM**

Address: **120 SW LOUIS Gln**

City: **LAKE CITY**

State: **FL**

Zip Code **32024**

Parcel ID **02816-005**

REMARKS: Address for proposed structure on parcel.

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

Address Issued By: **Signed:/ Matt Crews**

Columbia County GIS/911 Addressing Coordinator

**COLUMBIA COUNTY
911 ADDRESSING / GIS DEPARTMENT**

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

SUBCONTRACTOR VERIFICATION

APPLICATION/PERMIT #

44631/44742

JOB NAME

Stoneparker

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 **REQUIRED** 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 <input type="checkbox"/>	Print Name _____ Signature _____ Company Name: _____ CC# _____ License #: _____ Phone #: _____	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
MECHANICAL/A/C <input type="checkbox"/>	Print Name _____ Signature _____ Company Name: _____ CC# _____ License #: _____ Phone #: _____	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
PLUMBING/GAS <input checked="" type="checkbox"/>	Print Name <u>DAN Mossburg</u> Signature <u>[Signature]</u> Company Name: <u>LIVE OAK Plumbing</u> CC# <u>1429</u> License #: <u>CFC 1427438</u> Phone #: <u>(386) 362-1767</u>	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
ROOFING <input checked="" type="checkbox"/>	Print Name <u>Mark Holly</u> Signature <u>[Signature]</u> Company Name: <u>Woodman T-RK</u> CC# <u>585</u> License #: <u>CRS 1319441</u> Phone #: <u>386-755-244</u>	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
SHEET METAL <input type="checkbox"/>	Print Name _____ Signature _____ Company Name: _____ CC# _____ License #: _____ Phone #: _____	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
FIRE SYSTEM/SPRINKLER <input type="checkbox"/>	Print Name _____ Signature _____ Company Name: _____ CC# _____ License #: _____ Phone #: _____	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
SOLAR <input type="checkbox"/>	Print Name _____ Signature _____ Company Name: _____ CC# _____ License #: _____ Phone #: _____	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
STATE SPECIALTY <input type="checkbox"/>	Print Name _____ Signature _____ Company Name: _____ CC# _____ License #: _____ Phone #: _____	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE

Woodman Park Bldgs
Mick Stonepainter

SUBCONTRACTOR VERIFICATION

APPLICATION/PERMIT #

44631

JOB NAME

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<p>ELECTRICAL</p> <p><input checked="" type="checkbox"/> 535</p> <p>CC#</p>	<p>Print Name <u>THOMAS S. THOMAS</u> Signature <u>T. Thomas</u></p> <p>Company Name: <u>Stone Thomas Electric, LLC</u></p> <p>License #: <u>EC0001121</u> Phone #: <u>386-752-5125</u></p>	<p>Need</p> <p><input type="checkbox"/> Lic</p> <p><input type="checkbox"/> Liab</p> <p><input type="checkbox"/> W/C</p> <p><input type="checkbox"/> EX</p> <p><input type="checkbox"/> DE</p>
<p>MECHANICAL/A/C</p> <p><input type="checkbox"/></p> <p>CC#</p>	<p>Print Name _____ Signature _____</p> <p>Company Name: _____</p> <p>License #: _____ Phone #: _____</p>	<p>Need</p> <p><input type="checkbox"/> Lic</p> <p><input type="checkbox"/> Liab</p> <p><input type="checkbox"/> W/C</p> <p><input type="checkbox"/> EX</p> <p><input type="checkbox"/> DE</p>
<p>PLUMBING/GAS</p> <p><input type="checkbox"/></p> <p>CC#</p>	<p>Print Name _____ Signature _____</p> <p>Company Name: _____</p> <p>License #: _____ Phone #: _____</p>	<p>Need</p> <p><input type="checkbox"/> Lic</p> <p><input type="checkbox"/> Liab</p> <p><input type="checkbox"/> W/C</p> <p><input type="checkbox"/> EX</p> <p><input type="checkbox"/> DE</p>
<p>ROOFING</p> <p><input type="checkbox"/></p> <p>CC#</p>	<p>Print Name _____ Signature _____</p> <p>Company Name: _____</p> <p>License #: _____ Phone #: _____</p>	<p>Need</p> <p><input type="checkbox"/> Lic</p> <p><input type="checkbox"/> Liab</p> <p><input type="checkbox"/> W/C</p> <p><input type="checkbox"/> EX</p> <p><input type="checkbox"/> DE</p>
<p>SHEET METAL</p> <p><input type="checkbox"/></p> <p>CC#</p>	<p>Print Name _____ Signature _____</p> <p>Company Name: _____</p> <p>License #: _____ Phone #: _____</p>	<p>Need</p> <p><input type="checkbox"/> Lic</p> <p><input type="checkbox"/> Liab</p> <p><input type="checkbox"/> W/C</p> <p><input type="checkbox"/> EX</p> <p><input type="checkbox"/> DE</p>
<p>FIRE SYSTEM/SPRINKLER</p> <p><input type="checkbox"/></p> <p>CC#</p>	<p>Print Name _____ Signature _____</p> <p>Company Name: _____</p> <p>License #: _____ Phone #: _____</p>	<p>Need</p> <p><input type="checkbox"/> Lic</p> <p><input type="checkbox"/> Liab</p> <p><input type="checkbox"/> W/C</p> <p><input type="checkbox"/> EX</p> <p><input type="checkbox"/> DE</p>
<p>SOLAR</p> <p><input type="checkbox"/></p> <p>CC#</p>	<p>Print Name _____ Signature _____</p> <p>Company Name: _____</p> <p>License #: _____ Phone #: _____</p>	<p>Need</p> <p><input type="checkbox"/> Lic</p> <p><input type="checkbox"/> Liab</p> <p><input type="checkbox"/> W/C</p> <p><input type="checkbox"/> EX</p> <p><input type="checkbox"/> DE</p>
<p>STATE SPECIALTY</p> <p><input type="checkbox"/></p> <p>CC#</p>	<p>Print Name _____ Signature _____</p> <p>Company Name: _____</p> <p>License #: _____ Phone #: _____</p>	<p>Need</p> <p><input type="checkbox"/> Lic</p> <p><input type="checkbox"/> Liab</p> <p><input type="checkbox"/> W/C</p> <p><input type="checkbox"/> EX</p> <p><input type="checkbox"/> DE</p>

SUBCONTRACTOR VERIFICATION

APPLICATION/PERMIT # _____ JOB NAME _____

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ELECTRICAL <input type="checkbox"/> CC# _____	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
MECHANICAL/A/C <input checked="" type="checkbox"/> CC# 000653	Print Name <u>Jeremiah J Cook</u> Signature <u>Jeremiah Cook</u> Company Name: <u>Cook's Heat & Air Conditioning, Inc.</u> License #: <u>CAC1813212</u> Phone #: <u>(386) 623-3806</u>	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
PLUMBING/GAS <input type="checkbox"/> CC# _____	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
ROOFING <input type="checkbox"/> CC# _____	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
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FIRE SYSTEM/SPRINKLER <input type="checkbox"/> CC# _____	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
SOLAR <input type="checkbox"/> CC# _____	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
STATE SPECIALTY <input type="checkbox"/> CC# _____	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE



STATE OF FLORIDA
DEPARTMENT OF HEALTH
ONSITE SEWAGE TREATMENT AND DISPOSAL
SYSTEM

APPLICATION FOR CONSTRUCTION PERMIT

CR # 10-7519

PERMIT NO. 20-0206
DATE PAID: 5/13/20
FEE PAID: 310.00
RECEIPT #: 1473368

APPLICATION FOR:

☒ New System ☐ Existing System ☐ Holding Tank ☐ Innovative
☐ Repair ☐ Abandonment ☐ Temporary ☐

APPLICANT: MICHAEL STONEPAINTER

AGENT: WOODMAN PARK BUILDERS

TELEPHONE: (386) 755-2411

MAILING ADDRESS: P.O. BOX 1755

LAKE CITY

FL 32056

TO BE COMPLETED BY APPLICANT OR APPLICANT'S AUTHORIZED AGENT. SYSTEMS MUST BE CONSTRUCTED BY A PERSON LICENSED PURSUANT TO 489.105(3)(m) OR 489.552, FLORIDA STATUTES. IT IS THE APPLICANT'S RESPONSIBILITY TO PROVIDE DOCUMENTATION OF THE DATE THE LOT WAS CREATED OR PLATTED (MM/DD/YY) IF REQUESTING CONSIDERATION OF STATUTORY GRANDFATHER PROVISIONS.

PROPERTY INFORMATION

LOT: 3 BLOCK: N/A SUBDIVISION: HOBBS HEIGHTS S/D PLATTED: _____

PROPERTY ID #: 08-4S-16-02816-005 ZONING: RES I/M OR EQUIVALENT: ☐ NO ☐

PROPERTY SIZE: 4.650 ACRES WATER SUPPLY: ☒ PRIVATE PUBLIC ☐ ≤ 2000 GPD ☐ > 2000 GPD

IS SEWER AVAILABLE AS PER 381.0065, FS? ☐ NO ☐ DISTANCE TO SEWER: N/A FT

PROPERTY ADDRESS: 120 SW LOUIS GLEN LAKE CITY, FL

DIRECTIONS TO PROPERTY:

TAKE HWY 90 WEST PAST I-75, TURN LEFT ON PINE MOUNT ROAD, TURN LEFT ON BARWICK STREET, TURN RIGHT ON LOUIS GLEN, SITE IS FIRST ON THE LEFT.

BUILDING INFORMATION ☒ RESIDENTIAL ☐ COMMERCIAL

Unit No.	Type of Establishment	No. of Bedrooms	Building Area Sqft	Commercial/Institutional System Design Table 1, Chapter 64E-6, FAC
1	<u>HOUSE</u>	<u>2</u>	<u>864</u>	
2				
3				
4				

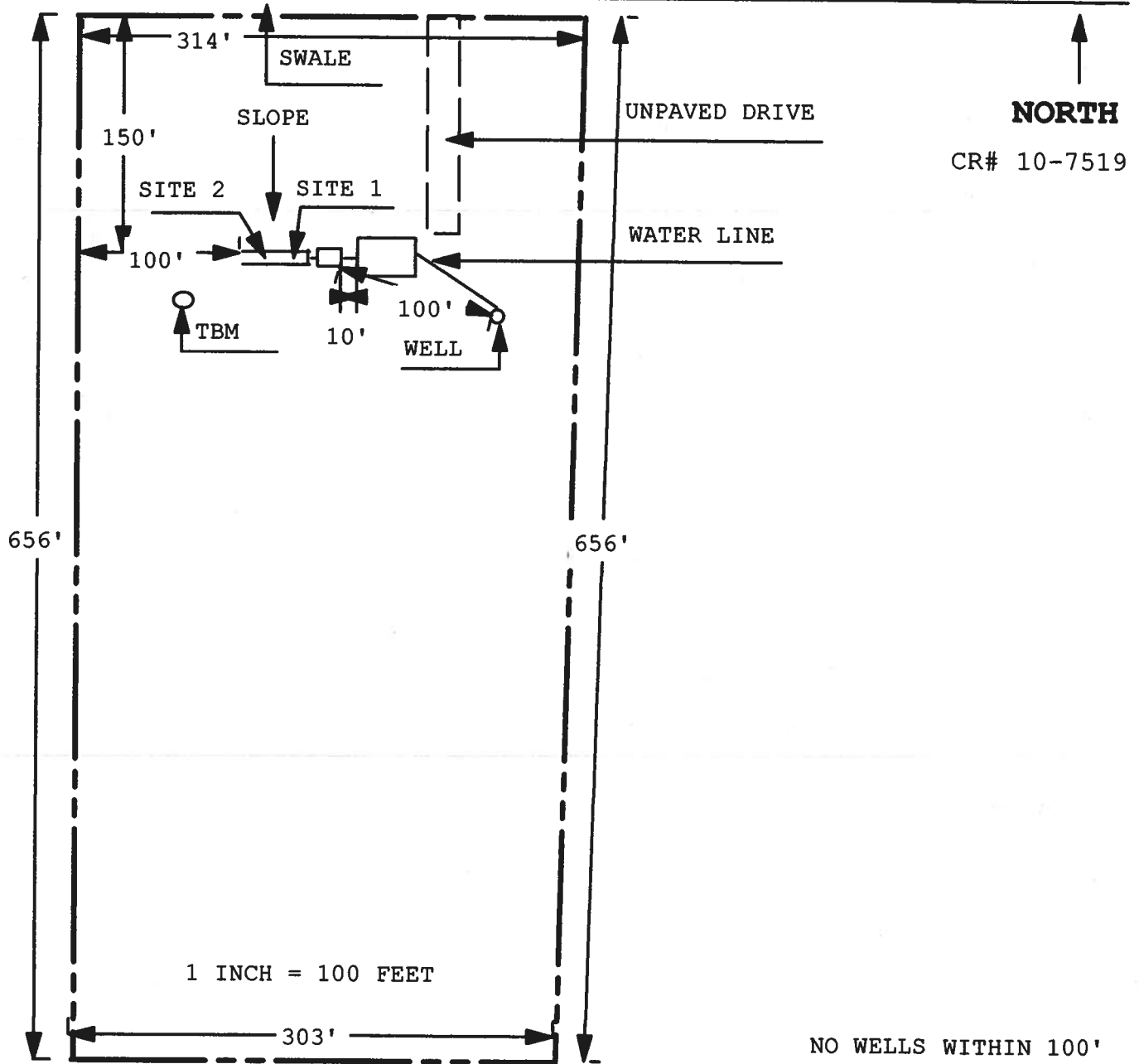
☐ Floor/Equipment Drains ☐ Other (Specify) _____

SIGNATURE: [Signature]

DATE: 3-12-20

**Application for Onsite Sewage Disposal System
Construction Permit. Part II Site Plan**
Permit Application Number: 20-0206

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT



Site Plan Submitted By Paul Lloyd Date 2/7/20
Plan Approved A Not Approved _____ Date 3/16/20
By [Signature] Columbiana CPHU

Notes: _____

A&B Well Drilling, Inc.

5673 NW Lake Jeffery Road
Lake City, FL 32055
Telephone: (386) 758-3409
Cell: (386) 623-3151
Fax: (386) 758-3410
Owner: Bruce Park

March 10, 2020

To: Columbia County Building Department

Description of Well to be installed for Customer __Woodman Park Builders____

Located @ Address: ____120 SW Louise GI

1 HP 20 GPM submersible pump, 1 1/4" drop pipe, 85 gallon captive tank, and backflow prevention.
With SRWMD permit.

*Bruce Park*_____

Sincerely,
Bruce N. Park
President

This Instrument Prepared by & return to:
Name: **TRISH LANG, an employee of
Integrity Title Services, LLC**
Address: **343 NW Cole Terrace, #101
Lake City, FL 32055
File No. 19-04019TL**

Inst: 201912009209 Date: 04/18/2019 Time: 4:40PM
Page 1 of 2 B: 1382 P: 2470, P.DeWitt Cason, Clerk of Court
Columbia, County, By: BD
Deputy ClerkDoc Stamp-Deed: 252.00

Parcel I.D. #: **R02816-005**

SPACE ABOVE THIS LINE FOR PROCESSING DATA

SPACE ABOVE THIS LINE FOR RECORDING DATA

THIS WARRANTY DEED Made the **18th** day of **April**, A.D. 2019, by **THERESA T. HOLLINGSWORTH** and **BARBARA MCLENDON**, CONVEYING NON-HOMESTEAD PROPERTY, hereinafter called the grantors, to **MICHAEL W. STONEPAINTER**, whose post office address is **2655 SW PINEMOUNT ROAD, LAKE CITY, FL 32024**, hereinafter called the grantee:

(Wherever used herein the terms "grantors" and "grantee" include all the parties to this instrument, singular and plural, the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporations, wherever the context so admits or requires.)

Witnesseth: That the grantors, for and in consideration of the sum of \$10.00 and other valuable consideration, receipt whereof is hereby acknowledged, do hereby grant, bargain, sell, alien, remise, release, convey and confirm unto the grantee all that certain land situate in **Columbia County, State of Florida**, viz:

See Exhibit "A"


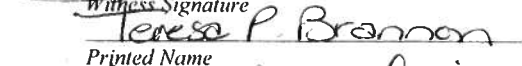
Together with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

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

And the grantors hereby covenant with said grantee that they are lawfully seized of said land in fee simple; that they have good right and lawful authority to sell and convey said land, and hereby fully warrant the title to said land and will defend the same against the lawful claims of all persons whomsoever, and that said land is free of all encumbrances, except taxes accruing subsequent to December 31, 2019.


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

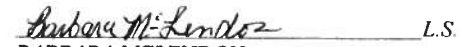
Signed, sealed and delivered in the presence of:


Witness Signature

Printed Name


Witness Signature

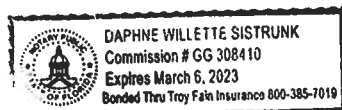
Printed Name


L.S.
THERESA T. HOLLINGSWORTH
Address:
**3447 JOHN HANCOCK DRIVE, TALLAHASSEE,
FL 32312**


L.S.
BARBARA MCLENDON
Address:
**206A FOURTH STREET SE, UNIT 1, FORT
WALTON BEACH, FL 32548**

STATE OF FLORIDA
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this **18th** day of **April**, 2019, by **THERESA T. HOLLINGSWORTH** and **BARBARA MCLENDON**, who are known to me or who have produced **FL Drivers License** as identification.




Notary Public
My commission expires **March 6, 2023**

Exhibit "A"

Lot 3, HOBBS HEIGHTS SUBDIVISION, a subdivision according to the Plat thereof as recorded in Plat Book 4, Page 25A of the Public Records of Columbia County, Florida.

Columbia County Property Appraiser

updated: 3/9/2020

2020 Working Values

Parcel: 08-4S-16-02816-005

Tax Collector

Tax Estimator

Property Card

Parcel List Generator

<< Next Lower Parcel Next Higher Parcel >>

2019 TRIM (pdf)

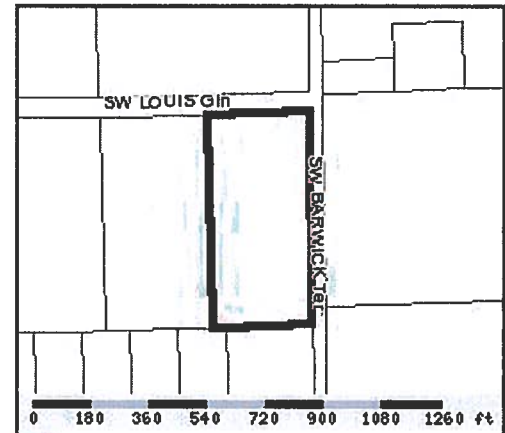
Interactive GIS Map

Print

Owner & Property Info

Search Result: 1 of 1

Owner's Name	STONEPAINTER MICHAEL W		
Mailing Address	2655 SW PINEMOUNT RD LAKE CITY, FL 32024		
Site Address	120 SW LOUIS GLN		
Use Desc. (code)	VACANT (000000)		
Tax District	3 (County)	Neighborhood	8416
Land Area	4.650 ACRES	Market Area	01
Description	NOTE: This description is not to be used as the Legal Description for this parcel in any legal transaction.		
LOT 3 HOBBS HEIGHTS S/D. 360-26, 612-792, WD 1049-747, WD 1075-467, WD 1200-2331, PB 1365-1124, WD 1382-2470,			



Property & Assessment Values

2019 Certified Values		
Mkt Land Value	cnt: (0)	\$22,721.00
Ag Land Value	cnt: (1)	\$0.00
Building Value	cnt: (0)	\$0.00
XFOB Value	cnt: (0)	\$0.00
Total Appraised Value		\$22,721.00
Just Value		\$22,721.00
Class Value		\$0.00
Assessed Value		\$22,721.00
Exempt Value		\$0.00
Total Taxable Value	Cnty: \$22,721 Other: \$22,721 Schl: \$22,721	

2020 Working Values			(...Hide Values)
Mkt Land Value	cnt: (0)	\$22,721.00	
Ag Land Value	cnt: (1)	\$0.00	
Building Value	cnt: (0)	\$0.00	
XFOB Value	cnt: (0)	\$0.00	
Total Appraised Value		\$22,721.00	
Just Value		\$22,721.00	
Class Value		\$0.00	
Assessed Value		\$22,721.00	
Exempt Value		\$0.00	
Total Taxable Value	Cnty: \$22,721 Other: \$22,721 Schl: \$22,721		

NOTE: 2020 Working Values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.

Sales History

Show Similar Sales within 1/2 mile

Sale Date	OR Book/Page	OR Code	Vacant / Improved	Qualified Sale	Sale RCode	Sale Price
4/18/2019	1382/2470	WD	V	Q	01	\$36,000.00
7/23/2018	1365/1124	PB	V	U	18	\$0.00
9/7/2010	1200/2331	WD	V	U	15	\$100.00
2/22/2006	1075/466	WD	V	U	01	\$100.00
2/22/2006	1075/467	WD	V	U	09	\$85,000.00
6/16/2005	1049/747	WD	V	Q		\$88,000.00
1/1/1987	612/792	WD	V	U	01	\$4,300.00

Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
NONE						

Extra Features & Out Buildings

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
NONE						

Land Breakdown

Lnd Code	Desc	Units	Adjustments	Eff Rate	Lnd Value
000000	VAC RES (MKT)	1 LT - (0000004.650AC)	1.00/1.00/1.00/1.00	\$22,721.10	\$22,721.00

RESIDENTIAL ENERGY CONSERVATION CODE DOCUMENTATION CHECKLIST

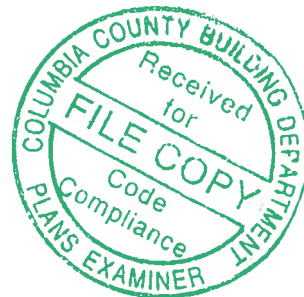
Florida Department of Business and Professional Regulation Simulated Performance Alternative (Performance) Method

Applications for compliance with the 2017 Florida Building Code, Energy Conservation via the residential Simulated Performance Method shall include:

- ☐ This checklist
- ☐ A Form R405 report that documents that the Proposed Design complies with Section R405.3 of the Florida Energy Code. This form shall include a summary page indicating home address, e-ratio and the pass or fail status along with summary areas and types of components, whether the home was simulated as a worst-case orientation, name and version of the compliance software tool, name of individual completing the compliance report (one page) and an input summary checklist that can be used for field verification (usually four pages/may be greater).
- ☐ Energy Performance Level (EPL) Display Card (one page)
- ☐ HVAC system sizing and selection based on ACCA Manual S or per exceptions provided in Section R403.7
- ☐ Mandatory Requirements (five pages)

Required prior to CO for the Performance Method:

- ☐ Air Barrier and Insulation Inspection Component Criteria checklist (Table R402.4.1.1 - one page)
- ☐ A completed Envelope Leakage Test Report (usually one page)
- ☐ If Form R405 duct leakage type indicates anything other than "default leakage", then a completed Form R405 Duct Leakage Test Report (usually one page)



INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	200233 Stonepainter	Bedrooms:	2	Address Type:	Street Address
Building Type:	User	Conditioned Area:	864	Lot #	
Owner Name:	Mick Stonepainter	Total Stories:	1	Block/Subdivision:	
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:		Rotate Angle:	180	Street:	
Permit Office:		Cross Ventilation:		County:	Columbia
Jurisdiction:		Whole House Fan:		City, State, Zip:	Lake City , FL ,
Family Type:	Single-family				
New/Existing:	New (From Plans)				
Comment:					

CLIMATE

✓	Design Location	TMY Site	Design Temp 97.5 %	2.5 %	Int Design Temp Winter	Summer	Heating Degree Days	Design Moisture	Daily Temp Range
_____	FL, Gainesville	FL_GAINESVILLE_REGI	32	92	70	75	1305.5	51	Medium

BLOCKS

Number	Name	Area	Volume
1	Block1	864	6912

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	864	6912	Yes	4	2	1	Yes	Yes	Yes

FLOORS

✓	#	Floor Type	Space	Perimeter	R-Value	Area		Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulatio	Main	120 ft	0	864 ft²	----	0	1	0

ROOF

✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt Tested	Emitt Tested	Deck Insul.	Pitch (deg)
_____	1	Gable or shed	Composition shingles	911 ft²	144 ft²	Dark	N	0.92	No	0.9	No	0	18.4

ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Vented	300	864 ft²	N	N

CEILING

✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	Main	38	Blown	864 ft²	0	Wood

INPUT SUMMARY CHECKLIST REPORT

WALLS

✓ #	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%
1	N=>S	Exterior	Frame - Wood	Main	13	24		8		192.0 ft²		0.23	0.75	0
2	E=>W	Exterior	Frame - Wood	Main	13	36		8		288.0 ft²		0.23	0.75	0
3	S=>N	Exterior	Frame - Wood	Main	13	24		8		192.0 ft²		0.23	0.75	0
4	W=>E	Exterior	Frame - Wood	Main	13	36		8		288.0 ft²		0.23	0.75	0

DOORS

✓ #	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
1	N=>S	Insulated	Main	None	.4	3		6	8	20 ft²
2	E=>W	Insulated	Main	None	.4	2	8	6	8	17.8 ft²
3	S=>N	Insulated	Main	None	.4	3		6	8	20 ft²
4	W=>E	Insulated	Main	None	.4	3		6	8	20 ft²

WINDOWS

Orientation shown is the entered orientation (=>) changed to As Built (rotated 180 degrees).

✓ #	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area	Overhang Depth	Separation	Int Shade	Screening
1	N=>S	1	Metal	Low-E Double	Yes	0.3	0.2	N	6.0 ft²	2 ft 0 in	5 ft 0 in	None	None
2	E=>W	2	Metal	Low-E Double	Yes	0.3	0.2	N	6.0 ft²	2 ft 0 in	0 ft 6 in	None	None
3	E=>W	2	Metal	Low-E Double	Yes	0.3	0.2	N	8.0 ft²	2 ft 0 in	0 ft 6 in	None	None
4	S=>N	3	Metal	Low-E Double	Yes	0.3	0.2	N	18.7 ft²	2 ft 0 in	4 ft 0 in	None	None
5	S=>N	3	Metal	Low-E Double	Yes	0.3	0.2	N	14.0 ft²	2 ft 0 in	4 ft 0 in	None	None
6	W=>E	4	Metal	Low-E Double	Yes	0.3	0.2	N	8.2 ft²	2 ft 0 in	0 ft 6 in	None	None
7	W=>E	4	Metal	Low-E Double	Yes	0.3	0.2	N	8.0 ft²	2 ft 0 in	0 ft 6 in	None	None

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000356	806.4	44.27	83.26	.1339	7

HEATING SYSTEM

✓ #	System Type	Subtype	Efficiency	Capacity	Block	Ducts
1	Electric Heat Pump/	None	HSPF:9.2	17 kBtu/hr	1	sys#1

COOLING SYSTEM

✓ #	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
1	Central Unit/	None	SEER: 17	17 kBtu/hr	510 cfm	0.75	1	sys#1

INPUT SUMMARY CHECKLIST REPORT

HOT WATER SYSTEM												
✓	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation			
✓	1	Electric	None	Main	0.9	50 gal	50 gal	120 deg	None			

SOLAR HOT WATER SYSTEM							
✓	FSEC Cert #	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF
✓	None	None			ft²		

DUCTS														
✓	#	--- Supply ---			--- Return ---		Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC #	
		Location	R-Value	Area	Location	Area							Heat	Cool
✓	1	Attic	6	172.8 ft	Attic	43.2 ft²	Default Leakage	Main	(Default)	(Default)			1	1

TEMPERATURES														
Programable Thermostat: Y					Ceiling Fans:									
Cooling	<input type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec		
Heating	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec		
Venting	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec		
Thermostat Schedule: HERS 2006 Reference														
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12	
Cooling (WD)	AM	78	78	78	78	78	78	78	78	78	80	80	80	80
	PM	80	80	80	80	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	80	80	80	80
	PM	80	80	80	80	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	65	65	65	65	65	65	65	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68	68
Heating (WEH)	AM	65	65	65	65	65	65	65	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68	68

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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 100

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

1. New home or, addition	1. <u>New (From Plans)</u>	12. Ducts, location & insulation level
2. Single-family or multiple-family	2. <u>Single-family</u>	a) Supply ducts R <u>6.0</u>
3. No. of units (if multiple-family)	3. <u>1</u>	b) Return ducts R <u>6.0</u>
4. Number of bedrooms	4. <u>2</u>	c) AHU location <u>Main</u>
5. Is this a worst case? (yes/no)	5. <u>No</u>	13. Cooling system: Capacity <u>17.0</u>
6. Conditioned floor area (sq. ft.)	6. <u>864</u>	a) Split system SEER <u> </u>
7. Windows, type and area		b) Single package SEER <u> </u>
a) U-factor:(weighted average)	7a. <u>0.300</u>	c) Ground/water source SEER/COP <u> </u>
b) Solar Heat Gain Coefficient (SHGC)	7b. <u>0.200</u>	d) Room unit/PTAC EER <u> </u>
c) Area	7c. <u>68.8</u>	e) Other <u>17.0</u>
8. Skylights		14. Heating system: Capacity <u>17.0</u>
a) U-factor:(weighted average)	8a. <u>NA</u>	a) Split system heat pump HSPF <u> </u>
b) Solar Heat Gain Coefficient (SHGC)	8b. <u>NA</u>	b) Single package heat pump HSPF <u> </u>
9. Floor type, insulation level:		c) Electric resistance COP <u> </u>
a) Slab-on-grade (R-value)	9a. <u>0.0</u>	d) Gas furnace, natural gas AFUE <u> </u>
b) Wood, raised (R-value)	9b. <u> </u>	e) Gas furnace, LPG AFUE <u> </u>
c) Concrete, raised (R-value)	9c. <u> </u>	f) Other <u>9.20</u>
10. Wall type and insulation:		15. Water heating system
A. Exterior:		a) Electric resistance EF <u>0.90</u>
1. Wood frame (Insulation R-value)	10A1. <u>13.0</u>	b) Gas fired, natural gas EF <u> </u>
2. Masonry (Insulation R-value)	10A2. <u> </u>	c) Gas fired, LPG EF <u> </u>
B. Adjacent:		d) Solar system with tank EF <u> </u>
1. Wood frame (Insulation R-value)	10B1. <u> </u>	e) Dedicated heat pump with tank EF <u> </u>
2. Masonry (Insulation R-value)	10B2. <u> </u>	f) Heat recovery unit HeatRec% <u> </u>
11. Ceiling type and insulation level		g) Other <u> </u>
a) Under attic	11a. <u>38.0</u>	16. HVAC credits claimed (Performance Method)
b) Single assembly	11b. <u> </u>	a) Ceiling fans <u> </u>
c) Knee walls/skylight walls	11c. <u> </u>	b) Cross ventilation <u>No</u>
d) Radiant barrier installed	11d. <u>No</u>	c) Whole house fan <u>No</u>
		d) Multizone cooling credit <u> </u>
		e) Multizone heating credit <u> </u>
		f) Programmable thermostat <u>Yes</u>

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

I certify that this home has complied with the Florida Building Code, Energy Conservation, through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL display card will be completed based on installed code compliant features.

Builder Signature: _____ Date: _____

Address of New Home: _____ City/FL Zip: Lake City, FL

Florida Building Code, Energy Conservation, 6th Edition (2017)

Mandatory Requirements for Residential Performance, Prescriptive and ERI Methods

ADDRESS:

Lake City, FL

Permit Number:

MANDATORY REQUIREMENTS See individual code sections for full details.



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.

Exception: 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. The building thermal envelope shall comply with Sections R402.4.1.1 and R402.4.1.2. The sealing methods between dissimilar materials shall allow for differential expansion and contraction.



R402.4.1.1 Installation. The components of the building thermal envelope as listed in Table R402.4.1.1 shall be installed in accordance with the manufacturer's instructions and the criteria listed in Table 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.

Exception: 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.



R402.4.2 Fireplaces. 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. Windows, skylights and sliding glass doors shall have an air infiltration rate of no more than 0.3 cfm per square foot (1.5 L/s/m²), and swinging doors no more than 0.5 cfm per square foot (2.6 L/s/m²), when tested according to NFRC 400 or AAMA/WDMA/CSA 101/I.S.2/A440 by an accredited, independent laboratory and listed and labeled by the manufacturer.

Exception: Site-built windows, skylights and doors.

MANDATORY REQUIREMENTS - (Continued)

- ☐ **R402.4.4 Rooms containing fuel-burning appliances.** In Climate Zones 3 through 8, where open combustion air ducts provide combustion air to open combustion fuel burning appliances, the appliances and combustion air opening shall be located outside the building thermal envelope or enclosed in a room, isolated from inside the thermal envelope. Such rooms shall be sealed and insulated in accordance with the envelope requirements of Table R402.1.2, where the walls, floors and ceilings shall meet not less than the basement wall R-value requirement. The door into the room shall be fully gasketed and any water lines and ducts in the room insulated in accordance with Section R403. The combustion air duct shall be insulated where it passes through conditioned space to a minimum of R-8.

Exceptions:

1. Direct vent appliances with both intake and exhaust pipes installed continuous to the outside.
2. Fireplaces and stoves complying with Section R402.4.2 and Section R1006 of the Florida Building Code, Residential.

- ☐ **R402.4.5 Recessed lighting.** Recessed luminaires installed in the building thermal envelope shall be sealed to limit air leakage between conditioned and unconditioned spaces. All recessed luminaires shall be IC-rated and labeled as having an air leakage rate not more than 2.0 cfm (0.944 L/s) when tested in accordance with ASTM E283 at a 1.57 psf (75 Pa) pressure differential. All recessed luminaires shall be sealed with a gasket or caulk between the housing and the interior wall or ceiling covering.

SECTION R403 SYSTEMS

R403.1 Controls.

- ☐ **R403.1.1 Thermostat provision (Mandatory).** At least one thermostat shall be provided for each separate heating and cooling system.

- ☐ **R403.1.3 Heat pump supplementary heat (Mandatory).** Heat pumps having supplementary electric-resistance heat shall have controls that, except during defrost, prevent supplemental heat operation when the heat pump compressor can meet the heating load.

- ☐ **R403.3.2 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.

- ☐ **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:

1. 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 manufacturer's air handler enclosure if installed at the time of the test. All registers shall be taped or otherwise sealed during the test.
2. Postconstruction test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the entire system, including the manufacturer's air handler enclosure. Registers shall be taped or otherwise sealed during the test.

Exceptions:

1. A duct air leakage test shall not be required where the ducts and air handlers are located entirely within the building thermal envelope.
2. Duct testing is not mandatory for buildings complying by Section 405 of this code.

A written report of the results of the test shall be signed by the party conducting the test and provided to the code official.

- ☐ **R403.3.5 Building cavities (Mandatory).** Building framing cavities shall not be used as ducts or plenums.

- ☐ **R403.4 Mechanical system piping insulation (Mandatory).** Mechanical system piping capable of carrying fluids above 105°F (41°C) or below 55°F (13°C) shall be insulated to a minimum of R-3.

- ☐ **R403.4.1 Protection of piping insulation.** Piping insulation exposed to weather shall be protected from damage, including that caused by sunlight, moisture, equipment maintenance and wind, and shall provide shielding from solar radiation that can cause degradation of the material. Adhesive tape shall not be permitted.

- ☐ **R403.5.1 Heated water circulation and temperature maintenance systems (Mandatory)** Heated water circulation systems shall be in accordance with Section R403.5.1.1. Heat trace temperature maintenance systems shall be in accordance with Section R403.5.1.2. Automatic controls, temperature sensors and pumps shall be accessible. Manual controls shall be readily accessible.

- ☐ **R403.5.1.1 Circulation systems.** Heated water circulation systems shall be provided with a circulation pump. The system return pipe shall be a dedicated return pipe or a cold water supply pipe. Gravity and thermosiphon circulation systems shall be prohibited. Controls for circulating hot water system pumps shall start the pump based on the identification of a demand for hot water within the occupancy. The controls shall automatically turn off the pump when the water in the circulation loop is at the desired temperature and when there is no demand for hot water.

- ☐ **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.

MANDATORY REQUIREMENTS - (Continued)

- ☐ **R403.5.5 Heat traps (Mandatory).** Storage water heaters not equipped with integral heat traps and having vertical pipe risers shall have heat traps installed on both the inlets and outlets. External heat traps shall consist of either a commercially available heat trap or a downward and upward bend of at least 3 ½ inches (89 mm) in the hot water distribution line and cold water line located as close as possible to the storage tank.
- R403.5.6 Water heater efficiencies (Mandatory).**
- ☐ **R403.5.6.1.1 Automatic controls.** Service water-heating systems shall be equipped with automatic temperature controls capable of adjustment from the lowest to the highest acceptable temperature settings for the intended use. The minimum temperature setting range shall be from 100°F to 140°F (38°C to 60°C).
- ☐ **R403.5.6.1.2 Shut down.** A separate switch or a clearly marked circuit breaker shall be provided to permit the power supplied to electric service systems to be turned off. A separate valve shall be provided to permit the energy supplied to the main burner(s) of combustion types of service water-heating systems to be turned off.
- ☐ **R403.5.6.2 Water-heating equipment.** Water-heating equipment installed in residential units shall meet the minimum efficiencies of Table C404.2 in Chapter 4 of the Florida Building Code, Energy Conservation, Commercial Provisions, for the type of equipment installed. Equipment used to provide heating functions as part of a combination system shall satisfy all stated requirements for the appropriate water-heating category. Solar water heaters shall meet the criteria of Section R403.5.6.2.1.
- ☐ **R403.5.6.2.1 Solar water-heating systems.** Solar systems for domestic hot water production are rated by the annual solar energy factor of the system. The solar energy factor of a system shall be determined from the Florida Solar Energy Center Directory of Certified Solar Systems. Solar collectors shall be tested in accordance with ISO Standard 9806, Test Methods for Solar Collectors, and SRCC Standard TM-1, Solar Domestic Hot Water System and Component Test Protocol. Collectors in installed solar water-heating systems should meet the following criteria:
1. Be installed with a tilt angle between 10 degrees and 40 degrees of the horizontal; and
 2. Be installed at an orientation within 45 degrees of true south.
- ☐ **R403.6 Mechanical ventilation (Mandatory).** The building shall be provided with ventilation that meets the requirements of the Florida Building Code, Residential, or Florida Building Code, Mechanical, as applicable, or with other approved means of ventilation including: Natural, Infiltration or Mechanical means. Outdoor air intakes and exhausts shall have automatic or gravity dampers that close when the ventilation system is not operating.
- ☐ **R403.6.1 Whole-house mechanical ventilation system fan efficacy.** When installed to function as a whole-house mechanical ventilation system, fans shall meet the efficacy requirements of Table R403.6.1.
- Exception:** Where whole-house mechanical ventilation fans are integral to tested and listed HVAC equipment, they shall be powered by an electronically commutated motor.
- ☐ **R403.6.2 Ventilation air.** Residential buildings designed to be operated at a positive indoor pressure or for mechanical ventilation shall meet the following criteria:
1. 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.
 2. 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.
 3. If ventilation air is drawn from enclosed space(s), then the walls of the space(s) from which air is drawn shall be insulated to a minimum of R-11 and the ceiling shall be insulated to a minimum of R-19, space permitting, or R-10 otherwise.
- R403.7 Heating and cooling equipment (Mandatory).**
- ☐ **R403.7.1 Equipment sizing.** Heating and cooling equipment shall be sized in accordance with ACCA Manual S based on the equipment loads calculated in accordance with ACCA Manual J or other approved heating and cooling calculation methodologies, based on building loads for the directional orientation of the building. The manufacturer and model number of the outdoor and indoor units (if split system) shall be submitted along with the sensible and total cooling capacities at the design conditions described in Section R302.1. This Code does not allow designer safety factors, provisions for future expansion or other factors that affect equipment sizing. System sizing calculations shall not include loads created by local intermittent mechanical ventilation such as standard kitchen and bathroom exhaust systems. New or replacement heating and cooling equipment shall have an efficiency rating equal to or greater than the minimum required by federal law for the geographic location where the equipment is installed.

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

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

For SI: 1 cfm = 28.3 L/min.

a. When tested in accordance with HVI Standard 916

MANDATORY 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:

1. 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.
2. 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.
 2. A variable capacity system sized for optimum performance during base load periods is utilized.

- ☐ **R403.8 Systems serving multiple dwelling units (Mandatory).** Systems serving multiple dwelling units shall comply with Sections C403 and C404 of the IECC—Commercial Provisions in lieu of Section R403.

- ☐ **R403.9 Snow melt and ice system controls (Mandatory)** Snow- and ice-melting systems, supplied through energy service to the building, shall include automatic controls capable of shutting off the system when the pavement temperature is above 50°F (10°C), and no precipitation is falling and an automatic or manual control that will allow shutoff when the outdoor temperature is above 40°F (4.8°C).

- ☐ **R403.10 Pools and permanent spa energy consumption (Mandatory).** The energy consumption of pools and permanent spas shall be in accordance with Sections R403.10.1 through R403.10.5.

- ☐ **R403.10.1 Heaters.** The electric power to heaters shall be controlled by a readily accessible on-off switch that is an integral part of the heater mounted on the exterior of the heater, or external to and within 3 feet (914 mm) of the heater. Operation of such switch shall not change the setting of the heater thermostat. Such switches shall be in addition to a circuit breaker for the power to the heater. Gas-fired heaters shall not be equipped with continuously burning ignition pilots.

- ☐ **R403.10.2 Time switches.** Time switches or other control methods that can automatically turn off and on according to a preset schedule shall be installed for heaters and pump motors. Heaters and pump motors that have built-in time switches shall be in compliance with this section.

Exceptions:

1. Where public health standards require 24-hour pump operation.
2. Pumps that operate solar- and waste-heat-recovery pool heating systems.
3. Where pumps are powered exclusively from on-site renewable generation.

- ☐ **R403.10.3 Covers.** Outdoor heated swimming pools and outdoor permanent spas shall be equipped with a vapor-retardant cover on or at the water surface or a liquid cover or other means proven to reduce heat loss.

Exception: Where more than 70 percent of the energy for heating, computed over an operation season, is from site-recovered energy, such as from a heat pump or solar energy source, covers or other vapor-retardant means shall not be required.

- ☐ **R403.10.4 Gas- and oil-fired pool and spa heaters.** All gas- and oil-fired pool and spa heaters shall have a minimum thermal efficiency of 82 percent for heaters manufactured on or after April 16, 2013, when tested in accordance with ANSI Z 21.56. Pool heaters fired by natural or LP gas shall not have continuously burning pilot lights.

- ☐ **R403.10.5 Heat pump pool heaters.** Heat pump pool heaters shall have a minimum COP of 4.0 when tested in accordance with AHRI 1160, Table 2, Standard Rating Conditions-Low Air Temperature. A test report from an independent laboratory is required to verify procedure compliance. Geothermal swimming pool heat pumps are not required to meet this standard.
- ☐ **R403.11 Portable spas (Mandatory).** The energy consumption of electric-powered portable spas shall be controlled by the requirements of APSP-14.

SECTION R404

ELECTRICAL POWER AND LIGHTING SYSTEMS

- ☐ **R404.1 Lighting equipment (Mandatory).** Not less than 75 percent of the lamps in permanently installed lighting fixtures shall be high-efficacy lamps or not less than 75 percent of the permanently installed lighting fixtures shall contain only high-efficacy lamps.
Exception: Low-voltage lighting.
- R404.1.1 Lighting equipment (Mandatory)** Fuel gas lighting systems shall not have continuously burning pilot lights.

2017 - AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

**TABLE 402.4.1.1
AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA**

Project Name: 200233 Stonepainter Street: City, State, Zip: Lake City , FL , Owner: Mick Stonepainter Design Location: FL, Gainesville		Builder Name: Permit Office: Permit Number: Jurisdiction:	CHECK
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 spaces.		
Recessed lighting	Recessed light fixtures installed in the building thermal envelope shall be sealed to the drywall.	Recessed light fixtures installed in the building thermal envelope shall be air tight and IC rated.	
Plumbing and wiring		Batt insulation shall be cut neatly to fit around wiring and plumbing in exterior walls, or insulation that on installation readily conforms to available space shall <u>extend behind piping and wiring.</u>	
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 or 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 <u>between fire sprinkler cover plates and walls or ceilings.</u>		

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

Envelope Leakage Test Report (Blower Door Test)

Residential Prescriptive, Performance or ERI Method Compliance

2017 Florida Building Code, Energy Conservation, 6th Edition

Jurisdiction:	Permit #:
---------------	-----------

Job Information

Builder:	Community:	Lot: NA
Address:		
City: Lake City	State: FL	Zip:

Air Leakage Test Results *Passing results must meet either the Performance, Prescriptive, or ERI Method*

☐ **PRESCRIPTIVE METHOD**-The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding 7 air changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Climate Zones 1 and 2.

☐ **PERFORMANCE or ERI METHOD**-The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding the selected ACH(50) value, as shown on Form R405-2017 (Performance) or R406-2017 (ERI), section labeled as infiltration, sub-section ACH50.
ACH(50) specified on Form R405-2017-Energy Calc (Performance) or R406-2017 (ERI): 7.000

$\frac{\text{CFM}(50)}{\text{Building Volume}} \times 60 \div \frac{6912}{\text{ACH}(50)} = \text{PASS}$ <div style="border: 1px solid black; width: 40px; height: 40px; margin: 10px auto; display: flex; align-items: center; justify-content: center;"> <div style="width: 10px; height: 10px; background-color: black;"></div> </div> <p><input type="checkbox"/> When ACH(50) is less than 3, Mechanical Ventilation installation must be verified by building department.</p>	<p><u>Method for calculating building volume:</u></p> <p><input type="radio"/> Retrieved from architectural plans</p> <p><input checked="" type="radio"/> Code software calculated</p> <p><input type="radio"/> Field measured and calculated</p>
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R402.4.1.2 Testing. Testing shall be conducted in accordance with ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 Pascals). Testing shall be conducted by either individuals as defined in Section 553.993(5) or (7), *Florida 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.

- 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, back draft 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.

Testing Company

Company Name: _____ Phone: _____

I hereby verify that the above Air Leakage results are in accordance with the 2017 6th Edition Florida Building Code Energy Conservation requirements according to the compliance method selected above.

Signature of Tester: _____ Date of Test: _____

Printed Name of Tester: _____

License/Certification #: _____ Issuing Authority: _____

Residential System Sizing Calculation

Summary

Mick Stonepainter

Project Title:
200233 Stonepainter

Lake City, FL

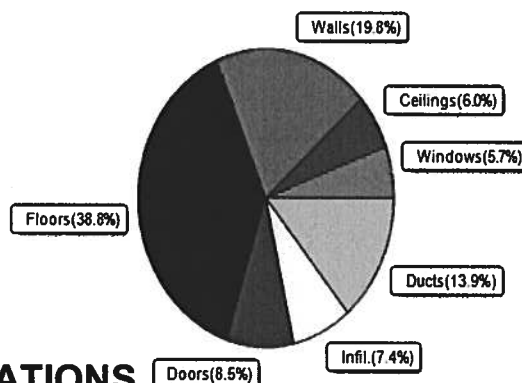
2020-02-21

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	14616	Btuh	Total cooling load calculation	11918	Btuh
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	116.3	17000	Sensible (SHR = 0.75)	128.1	12750
Heat Pump + Auxiliary(0.0kW)	116.3	17000	Latent	215.9	4250
			Total (Electric Heat Pump)	142.6	17000

WINTER CALCULATIONS

Winter Heating Load (for 864 sqft)

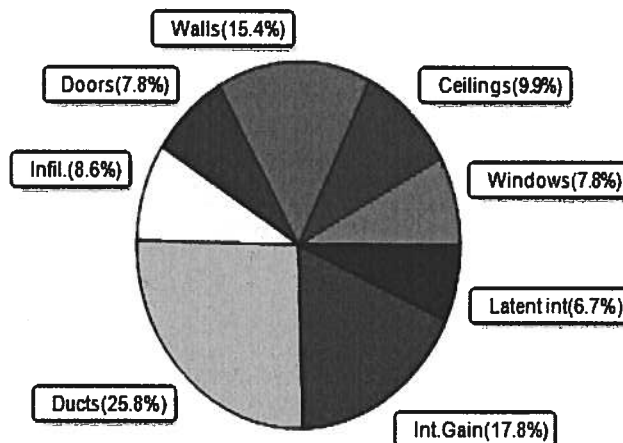
Load component			Load	
Window total	69	sqft	826	Btuh
Wall total	813	sqft	2888	Btuh
Door total	78	sqft	1244	Btuh
Ceiling total	864	sqft	877	Btuh
Floor total	864	sqft	5664	Btuh
Infiltration	25	cfm	1081	Btuh
Duct loss			2036	Btuh
Subtotal			14616	Btuh
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			14616	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 864 sqft)

Load component			Load	
Window total	69	sqft	935	Btuh
Wall total	813	sqft	1841	Btuh
Door total	78	sqft	933	Btuh
Ceiling total	864	sqft	1184	Btuh
Floor total			0	Btuh
Infiltration	19	cfm	385	Btuh
Internal gain			2120	Btuh
Duct gain			2551	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Blower Load			0	Btuh
Total sensible gain			9950	Btuh
Latent gain(ducts)			530	Btuh
Latent gain(infiltration)			639	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			800	Btuh
Total latent gain			1968	Btuh
TOTAL HEAT GAIN			11918	Btuh



8th Edition

EnergyGauge® System Sizing
PREPARED BY: Evan Beamsley
DATE: 2020-02-21

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Mick Stonepainter

Project Title:
200233 Stonepainter
Building Type: User

Lake City, FL

2020-02-21

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

Component Loads for Whole House

Window	Panes/Type	Frame	U	Orientation	Area(sqft)	X	HTM=	Load
1	2, NFRC 0.20	Metal	0.30	S	6.0		12.0	72 Btuh
2	2, NFRC 0.20	Metal	0.30	W	6.0		12.0	72 Btuh
3	2, NFRC 0.20	Metal	0.30	W	8.0		12.0	96 Btuh
4	2, NFRC 0.20	Metal	0.30	N	18.7		12.0	224 Btuh
5	2, NFRC 0.20	Metal	0.30	N	14.0		12.0	168 Btuh
6	2, NFRC 0.20	Metal	0.30	E	8.2		12.0	98 Btuh
7	2, NFRC 0.20	Metal	0.30	E	8.0		12.0	96 Btuh
	Window Total				68.8(sqft)			826 Btuh
Walls	Type	Ornt.	Ueff.	R-Value (Cav/Sh)	Area	X	HTM=	Load
1	Frame - Wood	- Ext	(0.089)	13.0/0.0	166		3.55	589 Btuh
2	Frame - Wood	- Ext	(0.089)	13.0/0.0	256		3.55	910 Btuh
3	Frame - Wood	- Ext	(0.089)	13.0/0.0	139		3.55	495 Btuh
4	Frame - Wood	- Ext	(0.089)	13.0/0.0	252		3.55	894 Btuh
	Wall Total				813(sqft)			2888 Btuh
Doors	Type	Storm	Ueff.		Area	X	HTM=	Load
1	Insulated - Exterior, n		(0.400)		20		16.0	320 Btuh
2	Insulated - Exterior, n		(0.400)		18		16.0	284 Btuh
3	Insulated - Exterior, n		(0.400)		20		16.0	320 Btuh
4	Insulated - Exterior, n		(0.400)		20		16.0	320 Btuh
	Door Total				78(sqft)			1244Btuh
Ceilings	Type/Color/Surface		Ueff.	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shing		(0.025)	38.0/0.0	864		1.0	877 Btuh
	Ceiling Total				864(sqft)			877Btuh
Floors	Type		Ueff.	R-Value	Size	X	HTM=	Load
1	Slab On Grade		(1.180)	0.0	120.0 ft(perim.)		47.2	5664 Btuh
	Floor Total				864 sqft			5664 Btuh
Envelope Subtotal:								11499 Btuh
Infiltration	Type	Wholehouse	ACH	Volume(cuft)	Wall Ratio	CFM=		Load
	Natural		0.21	6912	1.00	24.7		1081 Btuh
Duct load	Average sealed, R6.0, Supply(Att), Return(Att) (DLM of 0.162)							2036 Btuh
All Zones	Sensible Subtotal All Zones							14616 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Mick Stonepainter

Project Title:
200233 Stonepainter
Building Type: User

Lake City, FL

2020-02-21

WHOLE HOUSE TOTALS

Totals for Heating	Subtotal Sensible Heat Loss	14616 Btuh
	Ventilation Sensible Heat Loss	0 Btuh
	Total Heat Loss	14616 Btuh

EQUIPMENT

1. Electric Heat Pump	#	17000 Btuh
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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

Mick Stonepainter

Project Title:
200233 Stonepainter

Lake City, FL

2020-02-21

Reference City: Gainesville, FL

Temperature Difference: 19.0F(TMY3 99%)

Humidity difference: 51gr.

Component Loads for Whole House

Window	Type*						Overhang		Window Area(sqft)			HTM		Load	
	Panes	SHGC	U	InSh	IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2 NFRC	0.20, 0.30	No	No	S		2.0ft	5.0ft	6.0	6.0	0.0	10	11	59	Btuh
2	2 NFRC	0.20, 0.30	No	No	W		2.0ft	0.5ft	6.0	2.3	3.7	10	25	115	Btuh
3	2 NFRC	0.20, 0.30	No	No	W		2.0ft	0.5ft	8.0	4.6	3.4	10	25	130	Btuh
4	2 NFRC	0.20, 0.30	No	No	N		2.0ft	4.0ft	18.7	0.0	18.7	10	10	185	Btuh
5	2 NFRC	0.20, 0.30	No	No	N		2.0ft	4.0ft	14.0	0.0	14.0	10	10	139	Btuh
6	2 NFRC	0.20, 0.30	No	No	E		2.0ft	0.5ft	8.2	2.7	5.5	10	25	163	Btuh
7	2 NFRC	0.20, 0.30	No	No	E		2.0ft	0.5ft	8.0	4.6	3.4	10	25	130	Btuh
	Excursion													14	Btuh
	Window Total								69 (sqft)					935 Btuh	
Walls	Type					U-Value	R-Value	Area(sqft)			HTM		Load		
							Cav/Sheath								
1	Frame - Wood - Ext					0.09	13.0/0.0	166.0			2.3		376 Btuh		
2	Frame - Wood - Ext					0.09	13.0/0.0	256.2			2.3		580 Btuh		
3	Frame - Wood - Ext					0.09	13.0/0.0	139.3			2.3		315 Btuh		
4	Frame - Wood - Ext					0.09	13.0/0.0	251.8			2.3		570 Btuh		
	Wall Total								813 (sqft)					1841 Btuh	
Doors	Type							Area (sqft)			HTM		Load		
1	Insulated - Exterior							20.0			12.0		240 Btuh		
2	Insulated - Exterior							17.8			12.0		213 Btuh		
3	Insulated - Exterior							20.0			12.0		240 Btuh		
4	Insulated - Exterior							20.0			12.0		240 Btuh		
	Door Total								78 (sqft)					933 Btuh	
Ceilings	Type/Color/Surface					U-Value	R-Value	Area(sqft)			HTM		Load		
1	Vented Attic/DarkShingle					0.025	38.0/0.0	864.0			1.37		1184 Btuh		
	Ceiling Total								864 (sqft)					1184 Btuh	
Floors	Type						R-Value	Size			HTM		Load		
1	Slab On Grade						0.0	864 (ft-perimeter)			0.0		0 Btuh		
	Floor Total								864.0 (sqft)					0 Btuh	
	Envelope Subtotal:													4894 Btuh	
Infiltration	Type					Average ACH		Volume(cuft)	Wall Ratio		CFM=	Load			
	Natural					0.16		6912	1		18.5	385 Btuh			
Internal gain						Occupants		Btuh/occupant		Appliance		Load			
						4		X 230	+	1200		2120 Btuh			
	Sensible Envelope Load:													7399 Btuh	
Duct load	Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic) (DGM of 0.345)													2551 Btuh	
	Sensible Load All Zones													9950 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Mick Stonepainter

Project Title:
200233 Stonepainter

Climate:FL_GAINESVILLE_REGIONAL_A

Lake City, FL

2020-02-21

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	7399 Btuh
	Sensible Duct Load	2551 Btuh
	Total Sensible Zone Loads	9950 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	9950 Btuh
	Latent infiltration gain (for 51 gr. humidity difference)	639 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	530 Btuh
	Latent occupant gain (4.0 people @ 200 Btuh per person)	800 Btuh
	Latent other gain	0 Btuh
	Latent total gain	1968 Btuh
	TOTAL GAIN	11918 Btuh

EQUIPMENT

1. Central Unit	#	17000 Btuh
-----------------	---	------------

*Key: Window types (Panels - 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

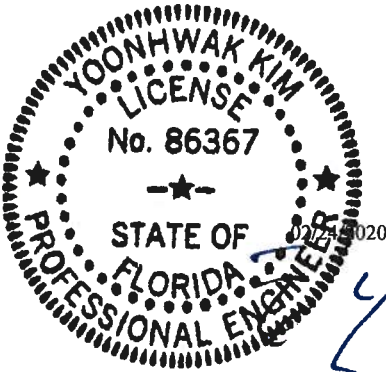
For Roller shades: Assume translucent, half closed

(IS - Insect screen: none(N), Full(F) or Half(½))

(Omt - compass orientation)



Version 8



This document has been electronically signed and sealed using a Digital Signature. Printed copies without an original signature must be verified using the original electronic version.



FL REG# 278, Yoonhwak Kim, FL PE #86367

Alpine, an ITW Company
6750 Forum Drive, Suite 305
Orlando, FL 32821
Phone: (800)755-6001
www.alpineitw.com

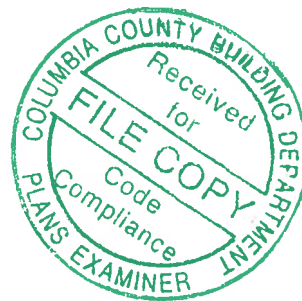
Site Information:	Page 1:
Customer: W. B. Howland Company, Inc.	Job Number: 20-3957
Job Description: Mickey Stonepainter /OWNER BUILDER	
Address: LAKE CITY, FL	

Job Engineering Criteria:			
Design Code: FBC 2017 RES		IntelliVIEW Version: 18.02.01B	
		JRef #: 1WT12150006	
Wind Standard: ASCE 7-10	Wind Speed (mph): 130	Roof Load (psf): 20.00-10.00- 0.00-10.00	
Building Type: Closed		Floor Load (psf): None	

This package contains general notes pages, 2 truss drawing(s) and 2 detail(s).

Item	Drawing Number	Truss
1	055.20.1527.55997	A01
3	A14015ENC101014	

Item	Drawing Number	Truss
2	055.20.1527.58037	A02
4	GBLLETIN0118	



General Notes (continued)

Key to Terms:

Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.

BCLL = Bottom Chord standard design Live Load in pounds per square foot.

CL = Certified lumber.

Des Ld = total of TCDL, TCDL, BCLL and BCDL Design Load in pounds per square foot.

FRT = Fire Retardant Treated lumber.

FRT-DB = D-Blaze Fire Retardant Treated lumber.

FRT-DC = Dricon Fire Retardant Treated lumber.

FRT-FP = FirePRO Fire Retardant Treated lumber.

FRT-FL = FlamePRO Fire Retardant Treated lumber.

FRT-FT = FlameTech Fire Retardant Treated lumber.

FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.

g = green lumber.

HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.

HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.

HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.

Ic = Incised lumber.

FJ = Finger Jointed lumber.

L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.

L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.

Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.

Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.

Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.

Max Web CSI = Maximum bending and axial Combined Stress Index for Webs for of all load cases.

NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.

PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.

PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds

PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.

PP = Panel Point.

R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).

Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).

TCDL = Top Chord standard design Dead Load in pounds per square foot.

TCLL = Top Chord standard design Live Load in pounds per square foot.

U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.

VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.

VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.

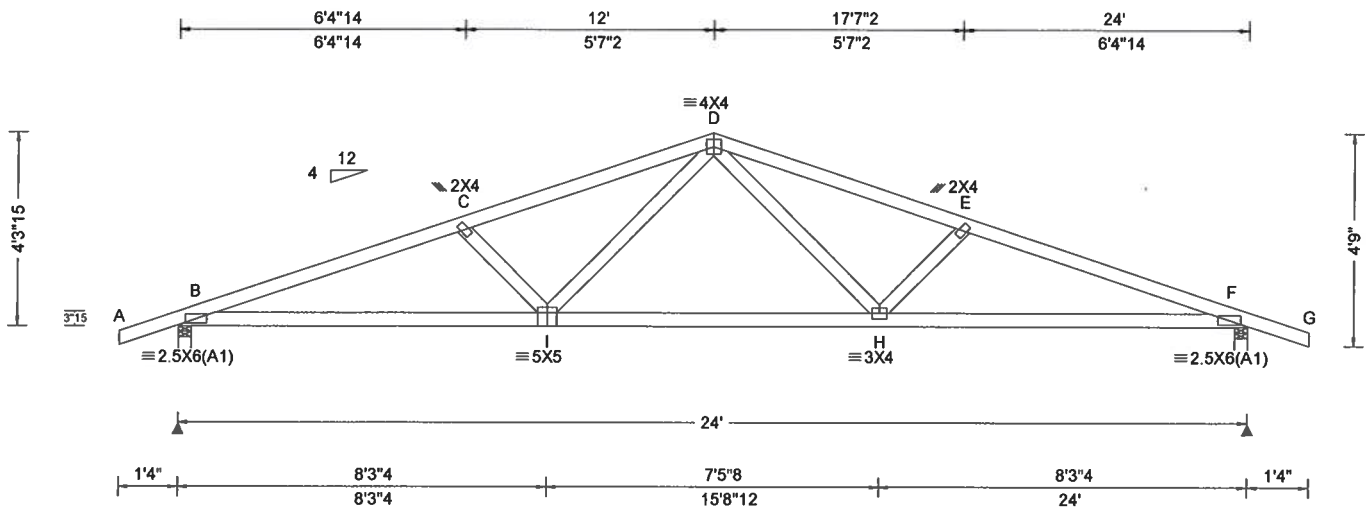
VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.

W = Width of non-hanger bearing, in inches.

Refer to ASCE-7 for Wind and Seismic abbreviations.

Uppercase Acronyms not explained above are as defined in TPI 1.

SEQN: 320240 FROM: CDM	COMN Ply: 1 Qty: 28	Job Number: 20-3957 /Mickey Stonepainter /OWNER BUILDER Truss Label: A01	Cust: R 215 JRef: 1WT12150006 T1 DrwNo: 055.20.1527.55997 / YK 02/24/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.115 D 999 480 VERT(CL): 0.228 D 999 360 HORZ(LL): 0.035 H - - HORZ(TL): 0.070 H - - Creep Factor: 2.0 Max TC CSI: 0.387 Max BC CSI: 0.793 Max Web CSI: 0.229 VIEW Ver: 18.02.01B.0321.08	Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL B 1060 /- /- /617 /201 /109 F 1060 /- /- /617 /201 /- Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 F Brg Width = 3.5 Min Req = 1.5 Bearings B & F are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 1020 -2237 D - E 934 -1981 C - D 934 -1980 E - F 1020 -2238

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Wind

Wind loads based on MWFRS with additional C&C member design.

Additional Notes

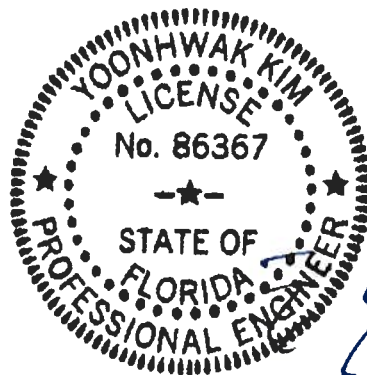
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 4'-3-15.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - I	2076 -880	H - F	2077 -889
I - H	1417 -551		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - I	266 -378	D - H	602 -237
I - D	600 -238	H - E	267 -377



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/24/2020

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

Gable Stud Reinforcement Detail

ASCE 7-10: 140 mph Wind Speed, 15' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Or 120 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00

Or 120 mph Wind Speed, 15' Mean Height, Enclosed, Exposure D, Kzt = 1.00

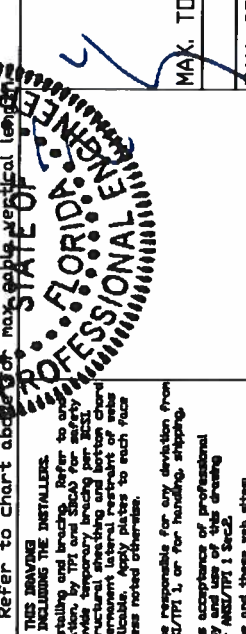
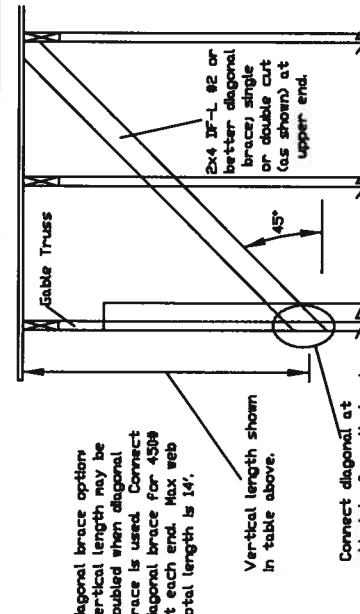
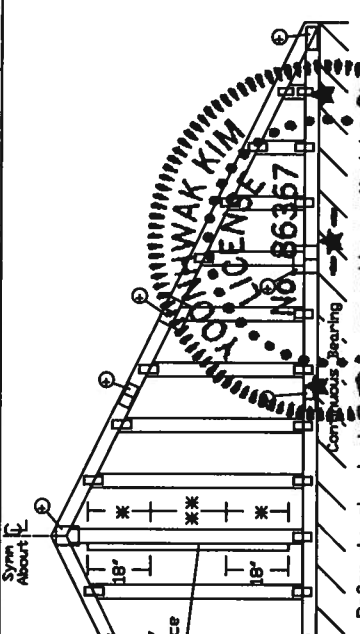
Or 100 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

Max Gable Vertical Length	Gable Vertical Spacing	Brace Grade	2x4 'L' Brace		1x4 'L' Brace		2x4 'L' Brace		2x6 'L' Brace		2x6 'L' Brace	
			Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
12" o.c.	SPF	#1 / #2	4' 3"	7' 3"	7' 3"	8' 7"	8' 11"	10' 3"	10' 8"	13' 6"	14' 0"	14' 0"
	HF	#3	4' 1"	6' 7"	7' 1"	8' 6"	8' 10"	10' 6"	10' 6"	13' 4"	14' 0"	14' 0"
	Standard	Stud	4' 1"	6' 7"	7' 0"	8' 6"	8' 10"	10' 6"	10' 6"	13' 4"	14' 0"	14' 0"
	SP	#1	4' 1"	5' 8"	6' 0"	7' 7"	8' 1"	10' 1"	10' 6"	13' 4"	14' 0"	14' 0"
24" o.c.	SP	#2	4' 3"	7' 3"	7' 7"	8' 7"	8' 11"	10' 3"	10' 8"	13' 6"	14' 0"	14' 0"
	DFL	#3	4' 2"	6' 0"	6' 4"	7' 11"	8' 6"	10' 2"	10' 7"	12' 5"	14' 0"	14' 0"
	Standard	Stud	4' 2"	6' 0"	6' 4"	7' 11"	8' 6"	10' 2"	10' 7"	12' 5"	14' 0"	14' 0"
	SPF	#1 / #2	4' 0"	5' 3"	5' 7"	7' 0"	7' 6"	9' 6"	10' 2"	11' 0"	14' 0"	14' 0"
16" o.c.	HF	#3	4' 11"	8' 4"	8' 8"	9' 10"	10' 3"	11' 7"	12' 2"	14' 0"	14' 0"	14' 0"
	Standard	Stud	4' 8"	8' 1"	8' 6"	9' 8"	10' 1"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"
	SP	#1	5' 1"	8' 5"	8' 9"	9' 11"	10' 4"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"
	DFL	#2	4' 11"	8' 4"	8' 8"	9' 10"	10' 3"	11' 7"	12' 2"	14' 0"	14' 0"	14' 0"
12" o.c.	SPF	#1 / #2	4' 3"	7' 3"	7' 7"	8' 7"	8' 11"	10' 3"	10' 8"	13' 6"	14' 0"	14' 0"
	HF	#3	4' 1"	6' 7"	7' 1"	8' 6"	8' 10"	10' 6"	10' 6"	13' 4"	14' 0"	14' 0"
	Standard	Stud	4' 1"	6' 7"	7' 0"	8' 6"	8' 10"	10' 6"	10' 6"	13' 4"	14' 0"	14' 0"
	SP	#1	4' 1"	5' 8"	6' 0"	7' 7"	8' 1"	10' 1"	10' 6"	13' 4"	14' 0"	14' 0"

Bracing Group Species and Grades			
Group A:		Group B:	
Service Pine-Fir	42 / 48	Service Pine-Fir	42 / 48
Standard	Stud	Standard	Stud
Douglas Fir-Larch	43	Douglas Fir-Larch	43
Standard	Stud	Standard	Stud
Southern Pine	43	Southern Pine	43
Standard	Stud	Standard	Stud
Group C:		Group D:	
Douglas Fir-Larch	41 & 42	Douglas Fir-Larch	41 & 42
Standard	Stud	Standard	Stud
Southern Pine	41	Southern Pine	41
Standard	Stud	Standard	Stud

1x4 Braces shall be SPS (Stress-Rated Board), or 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:
Wind Load deflection criterion is L/240.
Provide uplift connections for 55 psf over continuous bearing (3 psf 1C Dead Load).
Gable end supports load from 4' 0" overhangs with 2' 0" overhang, or 12" plywood overhang.



IMPORTANT: READ AND FILL IN ALL NOTES IN THIS DRAWING
Trusses require extreme care in handling, shipping, installing and bracing. Refer to one of the following sources for detailed instructions: Trussing by the Trussing Company, Inc. (www.trussing.com), Trussing by the Trussing Company, Inc. (www.trussing.com), Trussing by the Trussing Company, Inc. (www.trussing.com).
Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs of truss and purlins shall be used as shown. This is not applicable to all trusses. Refer to drawings 100A-2 for standard plate positions.
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation or bracing of trusses.
The user of this drawing is responsible for obtaining the necessary engineering and professional engineering responsibility solely for the design shown. The liability of the professional engineer for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see this job's general notes page and these web sites:
ALPINE: www.alpineinc.com TPI: www.tpi.org SPS: www.spsinc.com

REF	ASCE 7-10-GAB14015
DATE	10/01/14
DRWG	A14015ENC101014
MAX. TOT. LD.	60 PSF
MAX. SPACING	24.0"

Refer to chart above for max gable vertical length

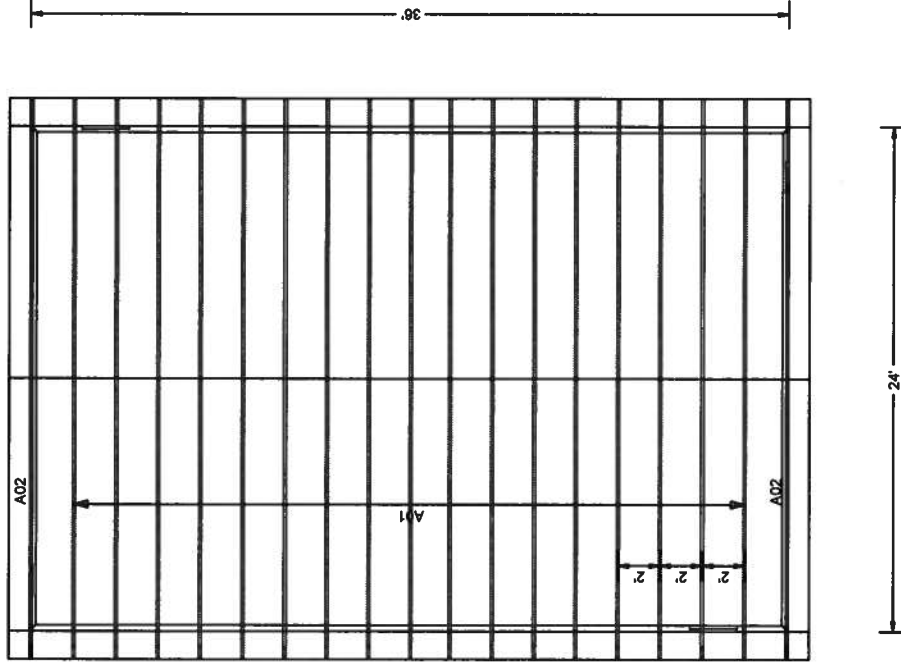
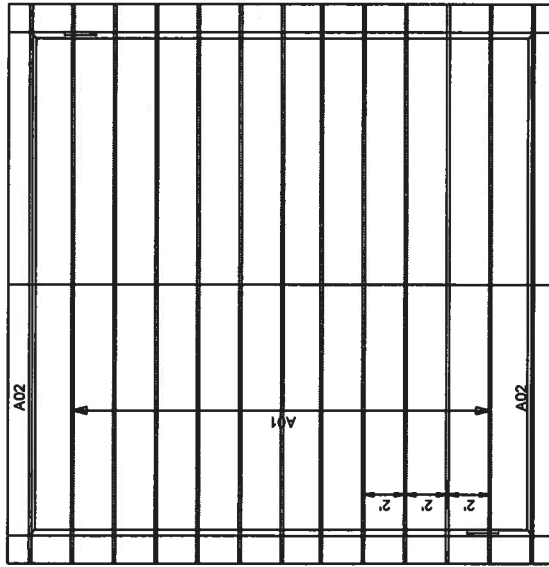
13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

Yoonhwak Kim, FL PE #86367

Total Truss Quantity = 32.

W.B. Howland Truss Co.
610 11th St. SW
Live Oak, FL 32064
(386) 362-1235
(386) 362-7124 (Fax)
howlandtruss@gmail.com

ROOF PITCH: 4/12
OVERHANG: 16" Plumb
CEILING: FLAT
EXT. WALLS: 2 X 4 X
LOADING: 40 PSF
WIND LOAD: 130 MPH
EXPOSURE: C
DATE: 2/25/20



JOB #: 20-3957

Job Name: Mickey Stonepainter
Customer: OWNER BUILDER
Designer: Bob Glover
ADDRESS:
SALESMAN: HOUSE
: <Not Found>

JOB NO:
20-3957

PAGE NO:
1 OF 1

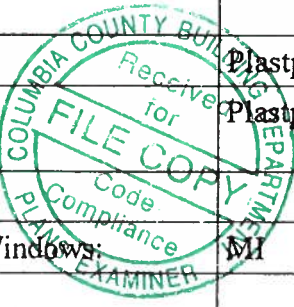
FLORIDA PRODUCT APPROVALS

10-16-15

Rogue Valley Wood

FL-13137

Item:	Manufacturer	Product Description:	Approval Number:
Exterior Doors:	Masonite	Inswing & Outswing Fiberglass	FL-8228-R7
	Masonite	Inswing & Outswing Steel	FL-4904-R7 ^{22513.6}
	Plastpro	8'0" Inswing & Outswing Fiberglass	FL-15220-R1 ^{W/ 22521}
	Plastpro	Inswing & Outswing Steel	FL-15962-R2
	Plastpro	6'8" Inswing & Outswing Fiberglass	FL-15215-R3 ^{flush glazed}
		6'8" Fiberglass	FL-17347 ^{11.17}
Windows:	Aluiminum 185	Single Hung	FL-17499
	Aluiminum 185	Picture Window	FL-15349
	* 53" x 50"	3540 Hg. Slider	FL-13349-2
	Jinless covers flange & fins for JASON	Vinyl 3540 Single Hung	FL-17676-R1 R6 ^{11.17}
		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 44"	400 Hg. Slider	FL-16476-1
Soffit:	Kaycan	Vinyl/PVC & Aluminum Soffit	FL-16503
		Vinyl Siding	FL-15867-R1
	LCIHW (House wrap)	International Bdy Code	ESR-3774
Underlayment:	Woodland	30# Felt	FL-17206-R3
	Interwrap	Rhino	FL-15216
Roofing:	Certainteed	Asphalt Shingles	FL-5444
	GAF	Asphalt Shingles	FL-10124-R16 R20 ^{11.17}
	Tamko	Asphalt Shingles	FL-18355
	Certainteed	Flintlastic SBS & APP	FL-16709-1
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		SV Roofing	FL-9555-R3
		Master Rib Roofing	FL-9557-R3



1-7-16

Hardie Union

CemPlanck

13192.1



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>

Items to Include-
Each Box shall be
Circled as
Applicable

GENERAL REQUIREMENTS:

APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

Select From Drop down

1	Two (2) complete sets of plans containing the following:	<input checked="" type="checkbox"/>		
2	All drawings must be clear, concise, drawn to scale, details that are not used shall be marked void	<input checked="" type="checkbox"/>		
3	Condition space (Sq. Ft.)		Total (Sq. Ft.) under roof	
		Yes	No	NA

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

Site Plan information including:

4	Dimensions of lot or parcel of land	- <input checked="" type="checkbox"/>		
5	Dimensions of all building set backs	- <input checked="" type="checkbox"/>		
6	Location of all other structures (include square footage of structures) on parcel, existing or proposed well and septic tank and all utility easements.	- <input checked="" type="checkbox"/>		
7	Provide a full legal description of property.	- <input checked="" type="checkbox"/>		

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

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Items to Include- Each Box shall be Circled as Applicable		
8	Plans or specifications must show compliance with FBCR Chapter 3	Yes	No	NA
		Select From Drop down		
9	Basic wind speed (3-second gust), miles per hour	- <input checked="" type="checkbox"/>		
10	(Wind exposure – if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated)	- <input checked="" type="checkbox"/>		
11	Wind importance factor and nature of occupancy	- <input checked="" type="checkbox"/>		
12	The applicable internal pressure coefficient, Components and Cladding	- <input checked="" type="checkbox"/>		
13	The design wind pressure in terms of psf (kN/m ²), to be used for the design of exterior component, cladding materials not specifi ally designed by the registered design professional.	- <input checked="" type="checkbox"/>		

Elevations Drawing including:

14	All side views of the structure	- <input checked="" type="checkbox"/>		
15	Roof pitch	- <input checked="" type="checkbox"/>		
16	Overhang dimensions and detail with attic ventilation	- <input checked="" type="checkbox"/>		
17	Location, size and height above roof of chimneys	- <input checked="" type="checkbox"/>		
18	Location and size of skylights with Florida Product Approval	- <input checked="" type="checkbox"/>		
19	Number of stories	- <input checked="" type="checkbox"/>		
20	Building height from the established grade to the roofs highest peak	- <input checked="" type="checkbox"/>		

Floor Plan Including:

21	Dimensioned area plan showing rooms, attached garage, breeze ways, covered porches, deck, balconies	- ✓		
22	Raised floor surfaces located more than 30 inches above the floor or grade	- ✓		
23	All exterior and interior shear walls indicated	- ✓		
24	Shear wall opening shown (Windows, Doors and Garage doors)	- ✓		
25	Show compliance with Section FBCR 310 Emergency escape and rescue opening shown in each bedroom (net clear opening shown) and Show compliance with Section FBC 1405.13.2 where the opening of an operable window is located more than 72 inches above the finished grade or surface below, the lowest part of the clear opening of the window shall be a minimum of 24 inches above the finished floor of the room in which the window is located. Glazing between the floor and 24 inches shall be fixed or have openings through which a 4-inch-diameter sphere cannot pass.	- ✓		
26	Safety glazing of glass where needed	- ✓		
27	Fireplaces types (gas appliance) (vented or non-vented) or wood burning with Hearth (see chapter 10 and chapter 24 of FBCR)	- ✓		
28	Show stairs with dimensions (width, tread and riser and total run) details of guardrails, Handrails	- ✓		
29	Identify accessibility of bathroom (see FBCR SECTION 320)	- ✓		

All materials placed within opening or onto/into exterior walls, soffits or roofs shall have Florida product approval number and mfg. installation information submitted with the plans (see Florida product approval form)

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Items to Include- Each Box shall be Circled as Applicable
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FBCR 403: Foundation Plans

		Select From Drop down		
30	Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.	- ✓		
31	All posts and/or column footing including size and reinforcing	- ✓		
32	Any special support required by soil analysis such as piling.	- ✓		
33	Assumed load-bearing value of soil _____ Pound Per Square Foot	- ✓		
34	Location of horizontal and vertical steel, for foundation or walls (include # size and type) For structures with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an grounding electrode system. Per the National Electrical Code article 250.52.3	- ✓		

FBCR 506: CONCRETE SLAB ON GRADE

35	Show Vapor retarder (6mil. Polyethylene with joints taped 6 inches and sealed)	- ✓		
36	Show control joints, synthetic fiber reinforcement or welded wire fabric reinforcement and Supports	- ✓		

FBCR 318: PROTECTION AGAINST TERMITES

37	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	- ✓		
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FBCR 606: Masonry Walls and Stem walls (load bearing & shear Walls)

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

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

Floor Framing System: First and/or second story

40	Floor truss package shall including layout and details, signed and sealed by Florida Registered Professional Engineer	-			
41	Show conventional floor joist type, size, span, spacing and attachment to load bearing walls, stem walls and/or piers	-			
42	Girder type, size and spacing to load bearing walls, stem wall and/or piers	-			
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	-			
48	Show the required access opening to access to under-floor spaces	-			
49	Show the sub-floor structural panel sheathing type, thickness and fastener schedule on the edges & 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

GENERAL REQUIREMENTS: APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Items to Include- Each Box shall be Circled as Applicable			
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Select from Drop down

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	-	✓		
55	Show wood structural panel's sheathing attachment to studs, joist, trusses, rafters and structural members, showing fastener schedule attachment on the edges & intermediate of the areas structural panel sheathing	-	✓		
56	Show all required connectors with a max uplift rating and required number of connectors and oc spacing for continuous connection of structural walls to foundation and roof trusses or rafter systems	-	✓		
57	Show sizes, type, span lengths and required number of support jack studs, king studs for shear wall opening and girder or header per FBC-R602.7.	-	✓		
58	Indicate where pressure treated wood will be placed	-	✓		
59	Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural 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	-	✓		
64	Show gable ends with rake beams showing reinforcement or gable truss and wall bracing details	-	✓		
65	Provide dead load rating of trusses	-	✓		

FBCR 802:Conventional Roof Framing Layout

66	Rafter and ridge beams sizes, span, species and spacing	-	✓		
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	-	✓		

ROOF ASSEMBLIES FRC Chapter 9

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

FBCR Chapter 11 Energy Efficiency Code for Residential Building

Residential construction shall comply with this code by using the following compliance methods in the FBCR Chapter 11 Residential buildings compliance methods. **Two of the required forms are to be submitted, N1100.1.1.1 As an alternative to the computerized Compliance Method A, the Alternate Residential Point System Method hand calculation, Alternate Form 600A, may be used. All requirements specific to this calculation are located in Sub appendix C to Appendix G. Buildings complying by this alternative shall meet all mandatory requirements of this chapter. Computerized versions of the Alternate Residential Point System Method shall not be acceptable for code compliance.**

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Items to Include- Each Box shall be Circled as Applicable		
Select from Drop Down				
74	Show the insulation R value for the following areas of the structure	-	✓	
75	Attic space	-	✓	
76	Exterior wall cavity	-	✓	
77	Crawl space	-	✓	

HVAC information

78	Submit two copies of a Manual J sizing equipment or equivalent computation study	-	✓		
79	Exhaust fans shown in bathrooms Mechanical exhaust capacity of 50 cfm intermittent or 20 cfm continuous required	-	✓		
80	Show clothes dryer route and total run of exhaust duct	-	✓		

Plumbing Fixture layout shown

81	All fixtures waste water lines shall be shown on the foundation plan	-			
82	Show the location of water heater	-			

Private Potable Water

83	Pump motor horse power	-			
84	Reservoir pressure tank gallon capacity	-			
85	Rating of cycle stop valve if used	-			

Electrical layout shown including

86	Show Switches, receptacles outlets, lighting fixtures and Ceiling fans	-	✓		
87	Show all 120-volt, single phase, 15- and 20-ampere branch circuits outlets required to be protected by Ground-Fault Circuit Interrupter (GFCI) Article 210.8 A	-	✓		
88	Show the location of smoke detectors & Carbon monoxide detectors	-	✓		
89	Show service panel, sub-panel, location(s) and total ampere ratings	-	✓		
90	On the electrical plans identify the electrical service overcurrent protection device for the main electrical service. This device shall be installed on the exterior of structures to serve as a disconnecting means for the utility company electrical service. Conductors used from the exterior disconnecting means to a panel or sub panel shall have four-wire conductors, of which one conductor shall be used as an equipment ground. Indicate if the utility company service entrance cable will be of the overhead or underground type. For structures with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an Grounding electrode system. Per the National Electrical Code article 250.52.3	-	✓		
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

93	Building Permit Application A current Building Permit Application is to be completed, by following the Checklist all supporting documents must be submitted. There is a \$15.00 application fee. The completed application with attached documents and application fee can be mailed.	- ✓		
94	Parcel Number The parcel number (Tax ID number) from the Property Appraisers Office (386) 758-1083 is required. A copy of property deed is also required. www.columbiacountyfla.com	- ✓		
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.	- ✓		
99	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)	- ✓		
100	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.	-		
101	A Flood development permit is also required for AE, Floodway & AH. Development permit cost is \$50.00	-		
102	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.	-		
103	911 Address: An application for a 911 address must be applied for and received through the Columbia County Emergency Management Office of 911 Addressing Department (386) 758-1125.	- ✓		

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