DATE 04/26/2018

Columbia County Building Permit

This Permit Must Be Prominently Posted on Premises During Construction

PERMIT
000036637

APPLICANT MAURICE PERKINS PHONE 386-208-2791

ADDRESS PO BOX 6141 LIVE OAK FL 32064

OWNER LEONARD & KYALA JOHNSON PHONE 386-867-0142

ADDRESS 871 SW Tustenuggee Ave LAKE CITY FL 32025

CONTRACTOR MAURICE PERKINS PHONE 386-208-2791

LOCATION OF PROPERTY 441 S, R TUSTENUGGEE AVE, .8 MILESON LEFT

TYPE DEVELOPMENT SFD, UTILITY ESTIMATED COST OF CONSTRUCTION 223900.00

HEATED FLOOR AREA 3663.00 TOTAL AREA 4478.00 HEIGHT STORIES 1

FOUNDATION CONCRETE WALLS FRAMED ROOF PITCH FLOOR SLAB

LAND USE & ZONING AG-3 MAX. HEIGHT 35

Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00

NO. EX.D.U. 0 FLOOD ZONE X DEVELOPMENT PERMIT NO.

PARCEL ID 20-4S-17-08579-004 SUBDIVISION

LOT BLOCK PHASE UNIT TOTAL ACRES 3.00

		CBC1251469	Maurice Perkins	
Culvert Permit No.	Culvert Waiver	Contractor's License Number	Applicant/Owner/Contractor	
EXISTING	18-0094	LN	TC	N
Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident

Time/STUP No.

COMMENTS: FLOOR ONE FOOT ABOVE THE ROAD, NOC ON FILE

Check # or Cash 1679

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power date/app. by Foundation date/app. by Monolithic date/app. by

Under slab rough-in plumbing date/app. by Slab date/app. by Sheathing/Nailing date/app. by

Framing date/app. by Insulation date/app. by

Rough-in plumbing above slab and below wood floor date/app. by Electrical rough-in date/app. by

Heat & Air Duct date/app. by Peri. beam (Lintel) date/app. by Pool date/app. by

Permanent power date/app. by C.O. Final date/app. by Culvert date/app. by

Pump pole date/app. by Utility Pole date/app. by M/H tie downs, blocking, electricity and plumbing date/app. by

Reconnection date/app. by RV date/app. by Re-roof date/app. by

BUILDING PERMIT FEE $ 1120.00 CERTIFICATION FEE $ 22.39 SURCHARGE FEE $ 22.39

MISC. FEES $ 0.00 ZONING CERT. FEE $ 50.00 FIRE FEE $ 0.00 WASTE FEE $

PLAN REVIEW FEE $ 280.00 DP & FLOOD ZONE FEE $ 25.00 CULVERT FEE $ **TOTAL FEE** 1519.78

INSPECTORS OFFICE CLERKS OFFICE

NOTICE: IN ADDITION TO THE REQUIREMENTS OF THIS PERMIT, THERE MAY BE ADDITIONAL RESTRICTIONS APPLICABLE TO THIS PROPERTY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY.

NOTICE: ALL OTHER APPLICABLE STATE OR FEDERAL PERMITS SHALL BE OBTAINED BEFORE COMMENCEMENT OF THIS PERMITTED DEVELOPMENT.

"WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT."

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 THE WORK IS COMMENCED. A VALID PERMIT RECIEVES AN APPROVED INSPECTION EVERY 180 DAYS. WORK SHALL BE CONSIDERED NOT SUSPENDED, ABANDONED OR INVALID WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS OT THE PREVIOUS INSPECTION.

The Issuance of this Permit Does Not Waive Compliance by Permittee with Deed Restrictions.

√? Not Sure About Energy Code forms $1519.78

DW/C Perkins

Columbia County New Building Permit Application

For Office Use Only Application # 1803-82 Date Received 3-26-18 By LH Permit # 36637

Zoning Official LH Date 4-16-18 Flood Zone X Land Use A Zoning A-3

FEMA Map # _____ Elevation _____ MFE 1' above road River _____ Plans Examiner T.C. Date 4-13-18

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 ☑ WC-FELKNO

☐ Owner Builder Disclosure Statement ☐ Land Owner Affidavit ☐ Ellisville Water ☑ App Fee Paid ☑ Sub VF Form

need signatures

Septic Permit No. 18-6094 City Water ☐ Fax _____

Applicant (Who will sign/pickup the permit) Maurice Perkins Phone 386-208-2791

Address P.O Box 6141 Live Oak FL 32064

Owners Name Leonard & Kyala Johnson Phone (386) 867-0142

911 Address 871 SW Tustenuggee Ave, Lake City FL 32025

Contractors Name Maurice PerKins Phone (386) 208-2791

Address P.O. Box 6141 Live Oak, FL 32064

Contractor Email meperkins62@yahoo.com/ ***Include to get updates on this job.

Fee Simple Owner Name & Address N/A Kyala82@gmail.com ★

Bonding Co. Name & Address N/A

Architect/Engineer Name & Address Marty Humphries 7932 240th St. O'Brien, FL 32071

Mortgage Lenders Name & Address _____

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

Property ID Number 20-4S-17-08579-004 Estimated Construction Cost $125,000

Subdivision Name _____ Lot ____ Block ____ Unit ____ Phase ____

Driving Directions from a Major Road Take US-41S to SW Tustenuggee Ave

Turn right onto Tustenugee Ave ; 0.8 miles on left

Construction of Home ____ Commercial OR ✓ Residential

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

Is the Building Fire Sprinkled? No If Yes, blueprints included ____ Or Explain _____

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

Actual Distance of Structure from Property Lines - Front 90' Side 130' Side 130' Rear 100+

Number of Stories 1 Heated Floor Area 3663 Total Floor Area 4478 Acreage 3

Zoning Applications applied for (Site & Development Plan, Special Exception, etc.) _____

LV sent email 4.17.18

LH- Spoke to Maurice 4-23-18

Columbia County Building Permit Application

CODE: Florida Building Code 2014 and the 2011 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.

Leonard Johnson
Kyala Johnson — Kyala Johnson

Print Owners Name **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.

Matthew E. Peek

Contractor's Signature

Contractor's License Number CBC1251469
Columbia County Competency Card Number 809 ~~46~~ ✓

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 24 **day of** March **20** 18.

Personally known____ **or Produced Identification** DL P625-545-62-449-0

Sharon M. Oliver

State of Florida Notary Signature (For the Contractor)

SEAL:

SHARON OLIVER
MY COMMISSION # FF 160914
EXPIRES: September 18, 2018
Bonded Thru Budget Notary Services

Prepared by and return to:
Ralph Robert Deas

The Law Office of Ralph R. Deas
227 SE Hernando Ave
Lake City, FL 32025
386-754-0771
File Number: **126**
Will Call No.:

Inst: 201812000591 Date: 01/10/2018 Time: 2:25PM
Page 1 of 2 B: 1351 P: 921, P.DeWitt Cason, Clerk of Court
Columbia, County, By: BD
Deputy ClerkDoc Stamp-Deed: 175.00

[Space Above This Line For Recording Data]

Warranty Deed

This Warranty Deed made this 30th day of **December, 2017** between **Randolph Jones and Barbara Ann Jones** whose post office address is **7002 Golden Oak Lane, Killeen, TX 76542**, grantor, and **Leonard Johnson and Kyala Johnson, husband and wife** whose post office address is **1986 SW Fallon Lane, Lake City, FL 32025**, grantee:

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

Witnesseth, that said grantor, for and in consideration of the sum of TWENTY FIVE THOUSAND AND NO/100 DOLLARS ($25,000.00) and other good and valuable considerations to said grantor in hand paid by said grantee, the receipt whereof is hereby acknowledged, has granted, bargained, and sold to the said grantee, and grantee's heirs and assigns forever, the following described land, situate, lying and being in **Columbia County, Florida** to-wit:

Commence at the Southwest corner of the SW ¼ of NE ¼, Section 20, Township 4 South, Range 17 East, Columbia County, Florida, and run thence N 88 degrees 36 minutes E along the South line of said SW ¼ of NE ¼, 25.00 feet to the East right-of-way line of County Road No. C-133 [N.B.: Should be 131]; thence N 1 degree 00 minutes 20 seconds W along said East right-of-way line, 299.62 feet to the POINT OF BEGINNING; thence continue N 1 degree 00 minutes 20 seconds W along said East right-of-way line, 52.50 feet; thence N 88 degrees 36 minutes E, 414.86 feet; thence S 1 degree 00 minutes 20 seconds E, 52.50 feet; thence S 88 degrees 36 minutes W, 414.86 feet to the POINT OF BEGINNING, containing 0.50 acres, more or less.
AND ALSO:
Commence at the Southwest corner of the SW ¼ of NE ¼, Section 20, Township 4 South, Range 17 East, Columbia County, Florida, and run N 88 degrees 36 minutes E along the South line of said SW ¼ of NE ¼, 25.00 feet to the East right-of-way line of State Road S-131, thence N 1 degree 00 minutes 20 seconds W along said East right-of-way line, 509.62 feet to the POINT OF BEGINNING; thence continue N 1 degree 00 minutes 20 seconds W along said right-of-way line 105.00 feet, thence N 88 degrees 36 minutes East, 414.86 feet; thence S 1 degree 00 minutes 20 seconds E, 105.00 feet; thence S 88 degrees 36 minutes W, 414.86 feet to the POINT OF BEGINNING, containing 1 acre, more or less.
AND ALSO:
Commence at the Southwest corner of the SW ¼ of NE ¼, Section 20, Township 4 South, Range 17 East, Columbia County, Florida, and run N 88 degrees 36 minutes E, along the South line of said SW ¼ of NE ¼, 25.00 feet to the East right-of-way line of State Road No. 131 (sic); thence N 1 degree 00 minutes 20 seconds W along said East right-of-way line, 404.62 feet to the POINT OF BEGINNING; thence continue N 1 degree 00 minutes 20 seconds W along said East right-of-way line, 105.00 feet; thence N 88 degrees 36 minutes E, 414.86 feet; thence S 1 degree 00 minutes 20 seconds E, 105.00 feet; thence S 88 degrees 36 minutes W, 414.86 feet to the POINT OF BEGINNING, containing 1.00 acre, more or less.
AND ALSO:
Commence at the Southwest corner of the SW ¼ of NE ¼, Section 20, Township 4 South, Range 17 East, Columbia County, Florida, and run N 88 degrees 36 minutes E along the South line of said SW ¼ of NE ¼, 25.00 feet to the East right-of-way line of County Road No. 131; thence N 1 degree 00 minutes 20 seconds W along said East right-of-way line, 352.12 feet to the POINT OF BEGINNING;

DoubleTimes

thence continue N 1 degree 00 minutes 20 seconds W along said East right-of-way line, 52.50 feet; thence N 89 degrees 36 minutes E, 414.86 feet; thence S 1 degree 00 minutes 20 seconds E, 52.50 feet; thence S 88 degrees 36 minutes W, 414.86 feet to the POINT OF BEGINNING, containing 0.50 acre more or less.

Parcel Identification Number: 20-4S-17-08579-004

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

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

And the grantor hereby covenants with said grantee that the grantor is lawfully seized of said land in fee simple; that the grantor has good right and lawful authority to sell and convey said land; that the grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances, except taxes accruing subsequent to **December 31, 2017**.

In Witness Whereof, grantor has hereunto set grantor's hand and seal the day and year first above written.

Signed, sealed and delivered in our presence:

Witness Name: Kayla White

Witness Name: Cordrica Johnson

Witness Name: Kayla White

Witness Name: Cordrica Johnson

Randolph Jones (Seal)

Barbara Ann Jones (Seal)

State of Texas
County of Bell

The foregoing instrument was acknowledged before me this 30 day of December, 2017 by Randolph Jones and Barbara Ann Jones, who [ ] are personally known or [X] have produced a driver's license as identification.

[Notary Seal]

JESSICA DAY
My Notary ID # 128095684
Expires October 29, 2021

Notary Public

Printed Name: Jessica Day

My Commission Expires: 10/29/21

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

BOARD OF COUNTY COMMISSIONERS • COLUMBIA COUNTY

Address Assignment and Maintenance Document

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

Date/Time Issued:	**2/7/2018 11:03:17 AM**
Address:	**871 SW TUSTENUGGEE Ave**
City:	**LAKE CITY**
State:	**FL**
Zip Code	**32025**
Parcel ID	**08579-004**

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

PAT LYNCH
LYNCH DRILLING CORP
P O Box 934
Branford, FL 32008
(386)935-1076

DATE 3-12-18

CUSTOMER Leonard Johnson

LOCATION 871 SW Tustenuggee Ave
Lake City, FL. 32025

WE WILL CONSTRUCT A 4" WATER WELL COMPLETE WITH 4" WATER WELL STEEL CASING, 1HP SUBMERSIBLE PUMP WITH 1 1/4" DROP PIPE, AND AN 85 GALLON CAPTIVE AIR TANK (21.9 GALLON DRAWDOWN).

WELL WILL BE COMPLETE AT THE WELL SITE, WE DO NOT INCLUDE ELECTRICAL NOR PLUMBING CONNECTIONS FROM THE WELL TO THE HOME AND/OR POWER POLE.

ANY VARIATIONS OF THE ABOVE ARE SUBJECT TO APPROVAL FROM THE CUSTOMER AND.OR CONTRACTOR PRIOR TO COMMENSMENT OF THE INDIVIDUAL JOB.

THANK YOU

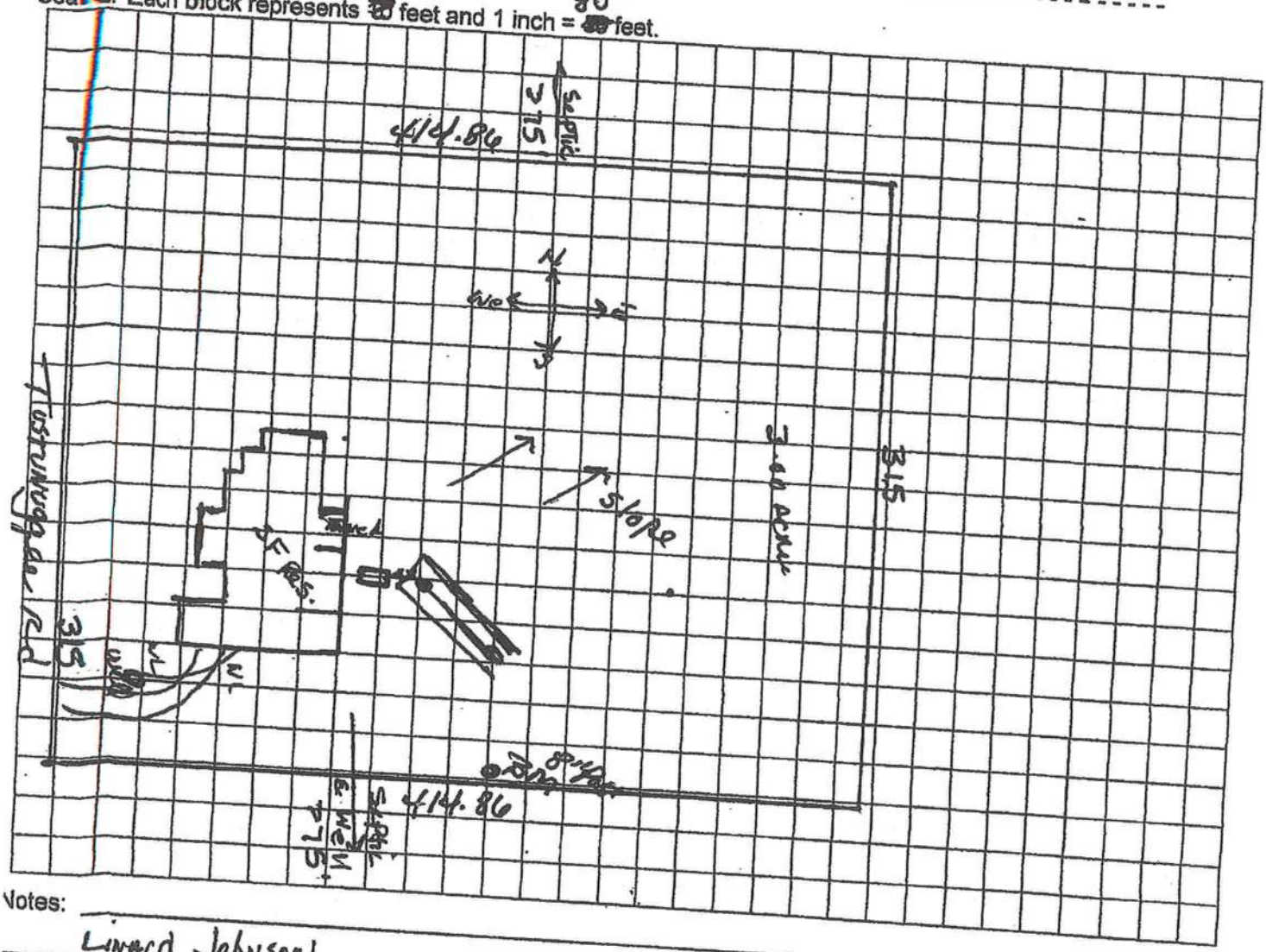
NOT RESPONSIBLE FOR THE QUALITY OF WATER

STATE OF FLORIDA
DEPARTMENT OF HEALTH
APPLICATION FOR CONSTRUCTION PERMIT

Permit Application Number 18-0094

PART II - SITEPLAN

Scale: Each block represents 20 feet and 1 inch = 80 feet.



Notes:

Linward Johnson

3.00 Acres

Site Plan submitted by: Robert W Jordan 2-5-18

Plan Approved XO Not Approved ____ Date 2/20/18

By _____ County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

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

SUBCONTRACTOR VERIFICATION

APPLICATION/PERMIT # 180382 JOB NAME JOHNSON

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.

		Need
ELECTRICAL ☑ CC# 1057	Print Name Felknor Electric Signature Company Name: Felknor Electric Inc License #: EC13003153 Phone #: 352-318-8797	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
MECHANICAL/ A/C B ☑ CC# 557	Print Name Fleming Air & Electric Signature Ervin Fleming Company Name: Irving Fleming License #: CAC 1814541 Phone #: 386-961-9770	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
PLUMBING/ GAS ☑ CC# 516	Print Name Maurice Perkins Signature Company Name: ME Perkins Construction & Plumbing Inc. License #: CFC.1426728. Phone #: (386) 208-2791	☐ Lic ☐ Liab ☑ W/C ☐ EX ☐ DE
ROOFING ☑ CC# 809	Print Name Maurice Perkins Signature Company Name: ME Perkins Construction & Plumbing Inc. License #: CBC.125169 Phone #: (386) 208-2791	☐ Lic ☐ Liab ☑ W/C ☐ EX ☐ DE
SHEET METAL ☐ CC#	Print Name Signature Company Name: License #: Phone #:	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
FIRE SYSTEM/ SPRINKLER ☐ CC#	Print Name Signature Company Name: License#: Phone #:	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
SOLAR ☐ CC#	Print Name Signature Company Name: License #: Phone #:	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
STATE SPECIALTY ☐ CC#	Print Name Signature Company Name: License #: Phone #:	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE

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

NOTICE OF COMMENCEMENT

Tax Parcel Identification Number:
20-4S-17-08579-004

Clerk's Office Stamp

Inst: 201812006067 Date: 03/26/2018 Time: 4:43PM
Page 1 of 1 B: 1356 P: 1736, P.DeWitt Cason, Clerk of Court
Columbia, County, By: BD
Deputy Clerk

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

1. Description of property *(legal description)*: Section 20, Township 4 South, Range 17 East
   a) Street *(Job)* Address: 871 SW Tuskenuggee Ave, Lake City, FL 32025
2. General description of improvements: New Construction
3. Owner Information or Lessee information if the Lessee contracted for the improvements:
   a) Name and address: Leonard + Kyala Johnson 1986 SW Fallon Ln Lake City, FL 32025
   b) Name and address of fee simple titleholder (if other than owner) _____
   c) Interest in property 100%
4. Contractor Information
   a) Name and address: Maurice Perkins P.O. Box 6141 Live Oak, FL 32064
   b) Telephone No.: (386) 208-2791
5. Surety Information (if applicable, a copy of the payment bond is attached):
   a) Name and address: N/A
   b) Amount of Bond: _____
   c) Telephone No.: _____
6. Lender
   a) Name and address: N/A
   b) Phone No. _____
7. Person within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1)(a)7., Florida Statutes:
   a) Name and address: N/A
   b) Telephone No.: _____
8. In addition to himself or herself, Owner designates the following person to receive a copy of the Lienor's Notice as provided in Section 713.13(l)(b), Florida Statutes:
   a) Name: N/A OF _____
   b) Telephone No.: _____
9. Expiration date of Notice of Commencement **(the expiration date will be 1 year from the date of recording unless a different date is specified)**: April 28, 2019

WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY; A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

STATE OF FLORIDA
COUNTY OF COLUMBIA

Kyala Johnson
Signature of Owner or Lessee, or Owner's or Lessee's Authorized Office/Director/Partner/Manager

Kyala Johnson Leonard Johnson
Printed Name and Signatory's Title/Office

The foregoing instrument was acknowledged before me, a Florida Notary, this 22nd day of March, 2018, by:

Kyala Johnson as Wife for Leonard Johnson.
(Name of Person) (Type of Authority) (name of party on behalf of whom instrument was executed)

Personally Known ✓ OR Produced Identification ____ Type _____

36637

Notary Signature _____ Notary Stamp or Seal:

NELLIE JHOMAS
MY COMMISSION # FF 162233
EXPIRES: September 22, 2018
Bonded Thru Budget Notary Services

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)*

FORM R405-2017

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name:	Johnson Residence	Builder Name:	
Street:	Tustenuggee Ave	Permit Office:	
City, State, Zip:	Lake City , FL , 32024	Permit Number:	
Owner:	Pete Johnson	Jurisdiction:	
Design Location:	FL, Gainesville	County::	columbia (Florida Climate Zone 2)

1. New construction or existing	New (From Plans)
2. Single family or multiple family	Single-family
3. Number of units, if multiple family	1
4. Number of Bedrooms	4
5. Is this a worst case?	No
6. Conditioned floor area above grade (ft²)	3663
Conditioned floor area below grade (ft²)	0

7. Windows(381.0 sqft.)	Description	Area
a. U-Factor:	Sgl, U=0.55	381.00 ft²
SHGC:	SHGC=0.50	
b. U-Factor:	N/A	ft²
SHGC:		
c. U-Factor:	N/A	ft²
SHGC:		
d. U-Factor:	N/A	ft²
SHGC:		
Area Weighted Average Overhang Depth:		0.000 ft.
Area Weighted Average SHGC:		0.500

8. Floor Types (3663.0 sqft.)	Insulation	Area
a. Slab-On-Grade Edge Insulation	R=0.0	3663.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

9. Wall Types (3100.0 sqft.)	Insulation	Area
a. Frame - Wood, Exterior	R=19.0	2840.00 ft²
b. Frame - Wood, Adjacent	R=19.0	260.00 ft²
c. N/A	R=	ft²
d. N/A	R=	ft²

10. Ceiling Types (3663.0 sqft.)	Insulation	Area
a. Under Attic (Vented)	R=30.0	3663.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

11. Ducts	R	ft²
a. Sup: Attic, Ret: Attic, AH: Main	6	732.6

12. Cooling systems	kBtu/hr	Efficiency
a. Central Unit	52.9	SEER:16.00

13. Heating systems	kBtu/hr	Efficiency
a. Electric Heat Pump	66.6	HSPF:9.50

14. Hot water systems	
a. Electric	Cap: 50 gallons
	EF: 0.950
b. Conservation features	
Heat Recovery Unit	
15. Credits	CF, CV, Pstat

Glass/Floor Area: 0.104

Total Proposed Modified Loads: 79.80

Total Baseline Loads: 87.12

PASS

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

PREPARED BY: _____

DATE: _____

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

OWNER/AGENT: _____

DATE: _____

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

BUILDING OFFICIAL: _____

DATE: _____

- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.3.2.1.

- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires an envelope leakage test report with envelope leakage no greater than 6.95 ACH50 (R402.4.1.2).

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PROJECT

Title:	Johnson Residence	Bedrooms:	4	Address Type:	Street Address
Building Type:	User	Conditioned Area:	3663	Lot #	
Owner Name:	Pete Johnson	Total Stories:	1	Block/Subdivision:	
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:		Rotate Angle:	0	Street:	Tustenuggee Ave
Permit Office:		Cross Ventilation:	Yes	County:	columbia
Jurisdiction:		Whole House Fan:	No	City, State, Zip:	Lake City , FL , 32024
Family Type:	Single-family				
New/Existing:	New (From Plans)				
Comment:					

CLIMATE

√	Design Location	TMY Site	Design Temp 97.5 %	Design Temp 2.5 %	Int Design Temp Winter	Int Design Temp 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	3663	36630

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	3663	36630	Yes	4	4	1	Yes	Yes	Yes

FLOORS

√	#	Floor Type	Space	Perimeter	R-Value	Area		Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulatio	Main	316 ft	0	3663 ft²	----	0.2	0.8	0

ROOF

√	#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
_____	1	Hip	Composition shingles	4403 ft²	0 ft²	Medium	0.96	No	0.9	No	0	33.7

ATTIC

√	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Vented	300	3663 ft²	N	N

CEILING

√	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	Main	30	Blown	3663 ft²	0.1	Wood

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WALLS

√	#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	Width In	Height Ft	Height In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%
____	1	N	Exterior	Frame - Wood	Main	19	89		10		890.0 ft²		0.23	0.75	0
____	2	W	Exterior	Frame - Wood	Main	19	66		10		660.0 ft²		0.23	0.75	0
____	3	S	Exterior	Frame - Wood	Main	19	89		10		890.0 ft²		0.23	0.75	0
____	4	E	Exterior	Frame - Wood	Main	19	40		10		400.0 ft²		0.23	0.75	0
____	5	E	Garage	Frame - Wood	Main	19	26		10		260.0 ft²		0.23	0.75	0

DOORS

√	#	Ornt	Door Type	Space	Storms	U-Value	Width Ft	Width In	Height Ft	Height In	Area
_____	1	N	Insulated	Main	None	.46	6		6	8	40 ft²
_____	2	N	Insulated	Main	None	.46	3		6	8	20 ft²
_____	3	E	Insulated	Main	None	.46	18		7		126 ft²
_____	4	E	Insulated	Main	None	.46	3		6	8	20 ft²

WINDOWS

Orientation shown is the entered, Proposed orientation.

√	#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area	Overhang Depth	Overhang Separation	Int Shade	Screening
_____	1	N	1	Vinyl	Low-E Single	Yes	0.55	0.5	N	180.0 ft²	0 ft 0 in	0 ft 0 in	Drapes/blinds	None
_____	2	W	2	Vinyl	Low-E Single	Yes	0.55	0.5	N	30.0 ft²	0 ft 0 in	0 ft 0 in	Drapes/blinds	None
_____	3	S	3	Vinyl	Low-E Single	Yes	0.55	0.5	N	126.0 ft²	0 ft 0 in	0 ft 0 in	Drapes/blinds	None
_____	4	E	4	Vinyl	Low-E Single	Yes	0.55	0.5	N	45.0 ft²	0 ft 0 in	0 ft 0 in	Drapes/blinds	None

GARAGE

√	#	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
_____	1	676 ft²	676 ft²	68 ft	10 ft	5

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH	.000442	4242.5	232.91	438.02	.34	6.9493

HEATING SYSTEM

√	#	System Type	Subtype	Efficiency	Capacity	Block	Ducts
_____	1	Electric Heat Pump/	None	HSPF:9.5	66.57 kBtu/hr	1	sys#1

COOLING SYSTEM

√	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
_____	1	Central Unit/	Small Duct High Velocity	SEER: 16	52.94 kBtu/hr	1590 cfm	0.75	1	sys#1

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HOT WATER SYSTEM

√	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
_____	1	Electric	None	Main	0.95	50 gal	70 gal	120 deg	Heat Recovery Unit

SOLAR HOT WATER SYSTEM

√	FSEC Cert #	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF
_____	None	None			ft²		

DUCTS

√	#	---- Supply ---- Location	R-Value	Area	---- Return ---- Location	Area	Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat	Cool
_____	1	Attic	6	732.6 ft	Attic	183.15	Default Leakage	Main	(Default)	(Default)			1	1

TEMPERATURES

Programable Thermostat: Y Ceiling Fans:

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Cooling	[ ]	[ ]	[ ]	[ ]	[ ]	[X]	[X]	[X]	[X]	[ ]	[ ]	[ ]
Heating	[X]	[X]	[X]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[X]	[X]
Venting	[ ]	[ ]	[X]	[X]	[ ]	[ ]	[ ]	[ ]	[ ]	[X]	[X]	[ ]

Thermostat Schedule: HERS 2006 Reference

Schedule Type		Hours 1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	AM	78	78	78	78	78	78	78	78	80	80	80	80
	PM	80	80	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66
Heating (WEH)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66

MECHANICAL VENTILATION

Type	Supply CFM	Exhaust CFM	Fan Watts	HRV	Heating System	Run Time	Cooling System
Runtime Vent	100	0	0	0	1 - Electric Heat Pump	%	1 - Central Unit

FORM R405-2017

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 92

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

Tustenuggee Ave, Lake City, FL, 32024

1. New construction or existing		New (From Plans)
2. Single family or multiple family		Single-family
3. Number of units, if multiple family		1
4. Number of Bedrooms		4
5. Is this a worst case?		No
6. Conditioned floor area (ft²)		3663
7. Windows**	Description	Area
a. U-Factor:	Sgl, U=0.55	381.00 ft²
SHGC:	SHGC=0.50	
b. U-Factor:	N/A	ft²
SHGC:		
c. U-Factor:	N/A	ft²
SHGC:		
d. U-Factor:	N/A	ft²
SHGC:		
Area Weighted Average Overhang Depth:		0.000 ft.
Area Weighted Average SHGC:		0.500

8. Floor Types	Insulation	Area
a. Slab-On-Grade Edge Insulation	R=0.0	3663.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

9. Wall Types	Insulation	Area
a. Frame - Wood, Exterior	R=19.0	2840.00 ft²
b. Frame - Wood, Adjacent	R=19.0	260.00 ft²
c. N/A	R=	ft²
d. N/A	R=	ft²

10. Ceiling Types	Insulation	Area
a. Under Attic (Vented)	R=30.0	3663.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

11. Ducts	R	ft²
a. Sup: Attic, Ret: Attic, AH: Main	6	732.6

12. Cooling systems	kBtu/hr	Efficiency
a. Central Unit	52.9	SEER:16.00

13. Heating systems	kBtu/hr	Efficiency
a. Electric Heat Pump	66.6	HSPF:9.50

14. Hot water systems	
a. Electric	Cap: 50 gallons EF: 0.95
b. Conservation features Heat Recovery Unit	
15. Credits	CF, CV, Pstat

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

Builder Signature: _____ Date: _____

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

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

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

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

ADDRESS:	Tustenuggee Ave Lake City , FL , 32024	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. When installed to function as a whole-house mechanical ventilation system, fans shall meet the efficacy requirements of Table R403.6.1.

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:	Johnson Residence	Builder Name:	
Street:	Tustenuggee Ave	Permit Office:	
City, State, Zip:	Lake City , FL , 32024	Permit Number:	
Owner:	Pete Johnson	Jurisdiction:	
Design Location:	FL, Gainesville		

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 walls.
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 extend behind piping and wiring.
Shower/tub on exterior wall	The air barrier installed at exterior walls adjacent to showers and tubs shall separate them from the showers and tubs.	Exterior walls adjacent to showers and tubs shall be insulated.
Electrical/phone box on exterior walls	The air barrier shall be installed behind electrical or communication boxes or air-sealed boxes shall be installed.	
HVAC register boots	HVAC register boots that penetrate building thermal envelope shall be sealed to the sub-floor or drywall.	
Concealed sprinklers	When required to be sealed, concealed fire sprinklers shall only be sealed in a manner that is recommended by the manufacturer. Caulking or other adhesive sealants shall not be used to fill voids between fire sprinkler cover plates and walls or ceilings.	

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

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Envelope Leakage Test Report
Performance Method

Project Name:	Johnson Residence	Builder Name:	
Street:	Tustenuggee Ave	Permit Office:	
City, State, Zip:	Lake City , FL , 32024	Permit Number:	
Design Location:	FL, Gainesville	Jurisdiction:	
Cond. Floor Area::	3663 sq.ft.	Cond. Volume:	36630 cu ft.

Envelope Leakage Test Results

Regression Data:

C: _____ n: _____ R: _____

Single or Multi Point Test Data

	HOUSE PRESSURE	FLOW:
1	Pa	cfm
2	Pa	cfm
3	Pa	cfm
4	Pa	cfm
5	Pa	cfm
6	Pa	cfm

Leakage Characteristics

Required ACH(50) from FORM R405-2017 : _____

Tested ACH(50) * : _____

*Tested leakage must be less than or equal to the required ACH(50) shown on Form R405-2017 for this building. If the tested ACH(50) is less than 3 the building must have a mechanical ventilation system.

R402.4.1.2 Testing. The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding 7 air changes per hour in Climate Zones 1 and 2 ... Testing shall be conducted with a blower door at a pressure of 0.2 inches 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, backdraft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures;
3. Interior doors, if installed at the time of the test, shall be open;
4. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed;
5. Heating and cooling systems, if installed at the time of the test, shall be turned off; and
6. Supply and return registers, if installed at the time of the test, shall be fully open.

I hereby certify that the above envelope leakage performance results demonstrate compliance with Florida Energy Code requirements in accordance with Section R402.4.1.2.

SIGNATURE: _____

PRINTED NAME: _____

DATE: _____

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 third party conducting the test and provided to the code official.

BUILDING OFFICIAL: _____

DATE: _____

wrightsoft

Load Short Form
Entire House
Glenn I. Jones, Inc.

Job:
Date: Mar 14, 2018
By:

552 NW Hilton Ave, Lake City, Fl 32055 Phone: 386-752-5389 Fax: 386-755-3401 Email: customercare@gijinc.com Web: www.GlennIJonesHomeServices.com License...

Project Information

For: Leonard Johnson
871 SW Tustenuggee Ave, Lake City, FL 32024

Design Information

	Htg	Clg
Outside db (°F)	33	92
Inside db (°F)	70	75
Design TD (°F)	37	17
Daily range	-	M
Inside humidity (%)	30	50
Moisture difference (gr/lb)	11	52

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	1 (Average)

HEATING EQUIPMENT

Make	n/a		
Trade	n/a		
Model	n/a		
AHRI ref	n/a		
Efficiency		n/a	
Heating input			
Heating output		0	Btuh
Temperature rise		0	°F
Actual air flow		0	cfm
Air flow factor		0	cfm/Btuh
Static pressure		0	in H2O
Space thermostat	n/a		

COOLING EQUIPMENT

Make	n/a		
Trade	n/a		
Cond	n/a		
Coil	n/a		
AHRI ref	n/a		
Efficiency		n/a	
Sensible cooling		0	Btuh
Latent cooling		0	Btuh
Total cooling		0	Btuh
Actual air flow		0	cfm
Air flow factor		0	cfm/Btuh
Static pressure		0	in H2O
Load sensible heat ratio		0	

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
AHU 1 d	2165	26803	22370	1153	1153
AHU 2 d	1663	18097	14053	780	780
Entire House d	3828	44901	36423	1933	1933
Other equip loads		0	0		
Equip. @ 0.97 RSM			35330		
Latent cooling			7583		
TOTALS	3828	44901	42913	1933	1933

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

wrightsoft

Load Short Form
AHU 1
Glenn I. Jones, Inc.

Job:
Date: Mar 14, 2018
By:

552 NW Hilton Ave, Lake City, Fl 32055 Phone: 386-752-5389 Fax: 386-755-3401 Email: customercare@gijinc.com Web: www.GlennIJonesHomeServices.com License...

Project Information

For: Leonard Johnson
871 SW Tustenuggee Ave, Lake City, FL 32024

Design Information

	Htg	Clg
Outside db (°F)	33	92
Inside db (°F)	70	75
Design TD (°F)	37	17
Daily range	-	M
Inside humidity (%)	30	50
Moisture difference (gr/lb)	11	52

Infiltration	
Method	Simplified
Construction quality	Average
Fireplaces	1 (Average)

HEATING EQUIPMENT

Make	Daikin
Trade	DAIKIN
Model	DZ16TC0361A*
AHRI ref	6545476

Efficiency	9.5 HSPF	
Heating input		
Heating output	34400	Btuh @ 47°F
Temperature rise	27	°F
Actual air flow	1153	cfm
Air flow factor	0.043	cfm/Btuh
Static pressure	0	in H2O
Space thermostat		

COOLING EQUIPMENT

Make	Daikin
Trade	DAIKIN
Cond	DZ16TC0361A*
Coil	AVPTC42D14A*
AHRI ref	6545476

Efficiency	12.5 EER, 16 SEER	
Sensible cooling	24220	Btuh
Latent cooling	10380	Btuh
Total cooling	34600	Btuh
Actual air flow	1153	cfm
Air flow factor	0.052	cfm/Btuh
Static pressure	0	in H2O
Load sensible heat ratio	0.82	

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
great rm	619	4317	5574	186	287
pwdr rm	59	1374	672	59	35
wic 2	80	2399	666	103	34
bed 2	229	2498	1312	107	68
mech 1	53	0	0	0	0
bath 2	148	2687	834	116	43
bed 3	230	4642	3437	200	177
foyer	89	1587	802	68	41
dining	182	3194	3045	137	157
keeping	228	3739	3951	161	204
kitchen	248	366	2078	16	107

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

AHU 1	d	2165	26803	22370	1153	1153
Other equip loads			0	0		
Equip. @ 0.97 RSM				21699		
Latent cooling				4949		
TOTALS		2165	26803	26648	1153	1153

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

wrightsoft

Load Short Form
AHU 2
Glenn I. Jones, Inc.

Job:
Date: Mar 14, 2018
By:

552 NW Hilton Ave, Lake City, Fl 32055 Phone: 386-752-5389 Fax: 386-755-3401 Email: customercare@gijinc.com Web: www.GlennIJonesHomeServices.com License...

Project Information

For: Leonard Johnson
871 SW Tustenuggee Ave, Lake City, FL 32024

Design Information

	Htg	Clg
Outside db (°F)	33	92
Inside db (°F)	70	75
Design TD (°F)	37	17
Daily range	-	M
Inside humidity (%)	30	50
Moisture difference (gr/lb)	11	52

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	1 (Average)

HEATING EQUIPMENT

Make	Daikin
Trade	DAIKIN
Model	DZ16TC0241A*
AHRI ref	6545434

Efficiency	8.5 HSPF	
Heating input		
Heating output	22400	Btuh @ 47°F
Temperature rise	26	°F
Actual air flow	780	cfm
Air flow factor	0.043	cfm/Btuh
Static pressure	0.50	in H2O
Space thermostat		

COOLING EQUIPMENT

Make	Daikin
Trade	DAIKIN
Cond	DZ16TC0241A*
Coil	DV30PTCC14A*
AHRI ref	6545434

Efficiency	11.8 EER, 15 SEER	
Sensible cooling	16380	Btuh
Latent cooling	7020	Btuh
Total cooling	23400	Btuh
Actual air flow	780	cfm
Air flow factor	0.056	cfm/Btuh
Static pressure	0.50	in H2O
Load sensible heat ratio	0.84	

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
bed 4	202	3172	2147	137	119
bath 3	72	150	238	6	13
rear vest	47	0	0	0	0
pantry	69	162	258	7	14
laundry	107	1789	1514	77	84
mstr bed	380	4685	4907	202	272
mstr bath	214	4610	3141	199	174
mstr wic	173	1430	668	62	37
hall1	53	0	0	0	0
mech 2	27	0	0	0	0
office	252	2099	1179	90	65
hall 2	67	0	0	0	0

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

AHU 2	d	1663	18097	14053	780	780
Other equip loads			0	0		
Equip. @ 0.97	RSM			13631		
Latent cooling				2634		
TOTALS		1663	18097	16265	780	780

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

wrightsoft® Load Multizone Summary Report

Job:
Date: Mar 14, 2018
By:

Glenn I. Jones, Inc.

552 NW Hilton Ave, Lake City, Fl 32055 Phone: 386-752-5389 Fax: 386-755-3401 Email: customercare@gijinc.com Web: www.GlennIJonesHomeServices.com License...

Infiltration Summary

ZONE NAME	Heating Volume ft³	Heating ACH	Heating AVF cfm	Heating HTM Btuh/ft²	Cooling Volume ft³	Cooling ACH	Cooling AVF cfm	Cooling HTM Btuh/ft²
AHU 1	21040	0.32	114	3.2	21040	0.16	55	0.7
AHU 2	15118	0.30	75	3.2	15118	0.14	36	0.7
Entire House	36159	0.31	189	3.2	36159	0.15	90	0.7

Load and AVF Summary

ROOM NAME	Area ft²	Htg load Btuh	Clg load Btuh	Htg AVF cfm	Clg AVF cfm
great rm	619	4317	5574	186	287
pwdr rm	59	1374	672	59	35
wic 2	80	2399	666	103	34
bed 2	229	2498	1312	107	68
mech 1	53	0	0	0	0
bath 2	148	2687	834	116	43
bed 3	230	4642	3437	200	177
foyer	89	1587	802	68	41
dining	182	3194	3045	137	157
keeping	228	3739	3951	161	204
kitchen	248	366	2078	16	107
AHU 1	2165	26803	22370	1153	1153
bed 4	202	3172	2147	137	119
bath 3	72	150	238	6	13
rear vest	47	0	0	0	0
pantry	69	162	258	7	14
laundry	107	1789	1514	77	84
mstr bed	380	4685	4907	202	272
mstr bath	214	4610	3141	199	174
mstr wic	173	1430	668	62	37
hall1	53	0	0	0	0
mech 2	27	0	0	0	0
office	252	2099	1179	90	65
hall 2	67	0	0	0	0
AHU 2	1663	18097	14053	780	780
Entire House	3828	44901	36423	1933	1933

wrightsoft

Loads for Multiple Orientations
Entire House
Glenn I. Jones, Inc.

Job:
Date: Mar 14, 2018
By:

552 NW Hilton Ave, Lake City, Fl 32055 Phone: 386-752-5389 Fax: 386-755-3401 Email: customercare@gijinc.com Web: www.GlennIJonesHomeServices.com License...

Project Information

For: Leonard Johnson
871 SW Tustenuggee Ave, Lake City, FL 32024

Design Conditions

Location:
Gainesville, FL, US
Elevation: 151 ft
Latitude: 30°N

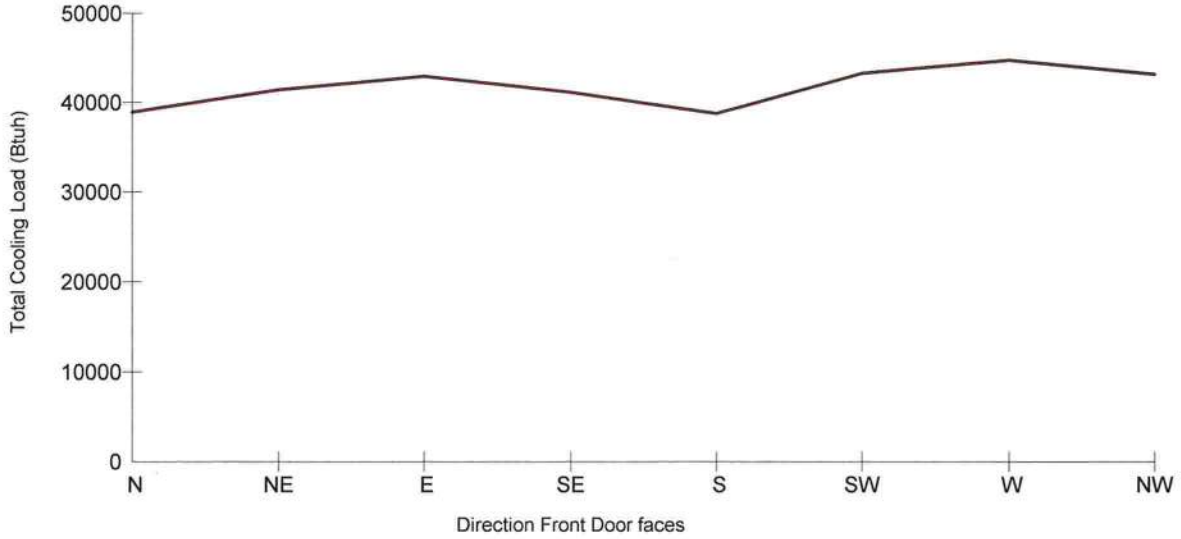
Outdoor:	**Heating**	**Cooling**
Dry bulb (°F)	33	92
Daily range (°F)	-	19 (M)
Wet bulb (°F)	-	77
Wind speed (mph)	15.0	7.5

Indoor:	**Heating**	**Cooling**
Indoor temperature (°F)	70	75
Design TD (°F)	37	17
Relative humidity (%)	30	50
Moisture difference (gr/lb)	10.6	52.0

Infiltration:

Front Door	North	Northeast	East	Southeast	South	Southwest	West	Northwest
Sensible Load (Btuh)	31366	33834	35330	33537	31177	35659	37117	35542
Latent Load (Btuh)	7583	7583	7583	7583	7583	7583	7583	7583
Total Load (Btuh)	38949	41417	42913	41120	38760	43242	44700	43125
Heating AVF (cfm)	1933	1933	1933	1933	1933	1933	1933	1933
Cooling AVF (cfm)	1933	1933	1933	1933	1933	1933	1933	1933

Building Orientation Cooling Load



Current Orientation: Front Door faces East
Highest Cooling Load: Front Door faces West

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

wrightsoft

Loads for Multiple Orientations
AHU 1
Glenn I. Jones, Inc.

Job:
Date: Mar 14, 2018
By:

552 NW Hilton Ave, Lake City, Fl 32055 Phone: 386-752-5389 Fax: 386-755-3401 Email: customercare@gijinc.com Web: www.GlennIJonesHomeServices.com License...

Project Information

For: Leonard Johnson
871 SW Tustenuggee Ave, Lake City, FL 32024

Design Conditions

Location:
Gainesville, FL, US
Elevation: 151 ft
Latitude: 30°N

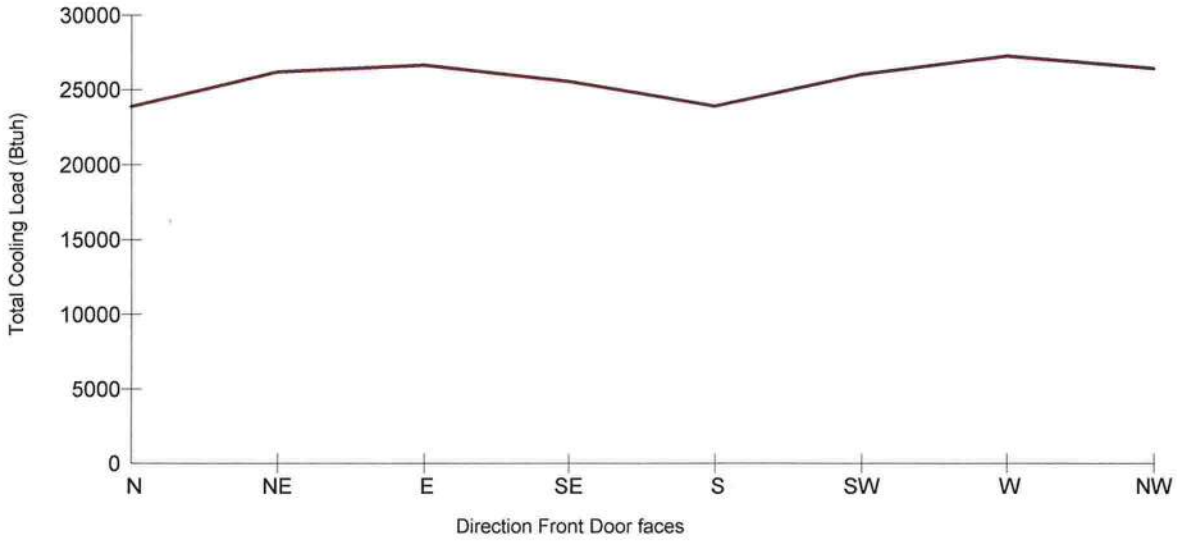
Outdoor:	Heating	Cooling
Dry bulb (°F)	33	92
Daily range (°F)	-	19 (M)
Wet bulb (°F)	-	77
Wind speed (mph)	15.0	7.5

Indoor:	Heating	Cooling
Indoor temperature (°F)	70	75
Design TD (°F)	37	17
Relative humidity (%)	30	50
Moisture difference (gr/lb)	10.6	52.0

Infiltration:

Front Door	North	Northeast	East	Southeast	South	Southwest	West	Northwest
Sensible Load (Btuh)	18946	21255	21699	20606	18944	21062	22312	21471
Latent Load (Btuh)	4949	4949	4949	4949	4949	4949	4949	4949
Total Load (Btuh)	23895	26204	26648	25556	23893	26011	27261	26420
Heating AVF (cfm)	1153	1153	1153	1153	1153	1153	1153	1153
Cooling AVF (cfm)	1153	1153	1153	1153	1153	1153	1153	1153

Building Orientation Cooling Load



Current Orientation: Front Door faces East
Highest Cooling Load: Front Door faces West

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

552 NW Hilton Ave, Lake City, Fl 32055 Phone: 386-752-5389 Fax: 386-755-3401 Email: customercare@gijinc.com Web: www.GlennIJonesHomeServices.com License...

Project Information

For: Leonard Johnson
871 SW Tustenuggee Ave, Lake City, FL 32024

Design Conditions

Location:
Gainesville, FL, US
Elevation: 151 ft
Latitude: 30°N

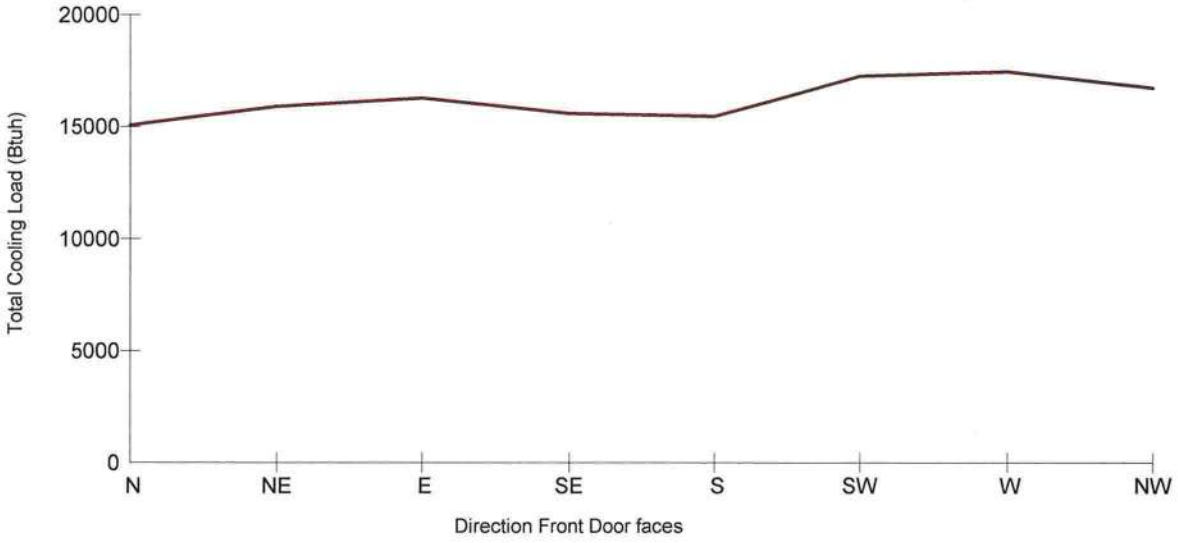
Outdoor:	**Heating**	**Cooling**
Dry bulb (°F)	33	92
Daily range (°F)	-	19 (M)
Wet bulb (°F)	-	77
Wind speed (mph)	15.0	7.5

Indoor:	**Heating**	**Cooling**
Indoor temperature (°F)	70	75
Design TD (°F)	37	17
Relative humidity (%)	30	50
Moisture difference (gr/lb)	10.6	52.0

Infiltration:

Front Door	North	Northeast	East	Southeast	South	Southwest	West	Northwest
Sensible Load (Btuh)	12423	13258	13631	12931	12811	14597	14805	14071
Latent Load (Btuh)	2634	2634	2634	2634	2634	2634	2634	2634
Total Load (Btuh)	15057	15892	16265	15565	15445	17231	17439	16705
Heating AVF (cfm)	780	780	780	780	780	780	780	780
Cooling AVF (cfm)	780	780	780	780	780	780	780	780

Building Orientation Cooling Load



Current Orientation: Front Door faces East
Highest Cooling Load: Front Door faces West

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

wrightsoft

Building Analysis
Entire House
Glenn I. Jones, Inc.

Job:
Date: Mar 14, 2018
By:

552 NW Hilton Ave, Lake City, Fl 32055 Phone: 386-752-5389 Fax: 386-755-3401 Email: customercare@gijinc.com Web: www.GlennIJonesHomeServices.com License...

Project Information

For: Leonard Johnson
871 SW Tustenuggee Ave, Lake City, FL 32024

Design Conditions

Location:
Gainesville, FL, US
Elevation: 151 ft
Latitude: 30°N

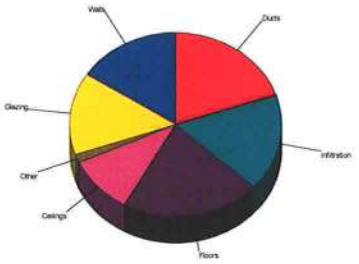
Outdoor:	**Heating**	**Cooling**
Dry bulb (°F)	33	92
Daily range (°F)	-	19 (M)
Wet bulb (°F)	-	77
Wind speed (mph)	15.0	7.5

Indoor:	**Heating**	**Cooling**
Indoor temperature (°F)	70	75
Design TD (°F)	37	17
Relative humidity (%)	30	50
Moisture difference (gr/lb)	10.6	52.0

Infiltration:	
Method	Simplified
Construction quality	Average
Fireplaces	1 (Average)

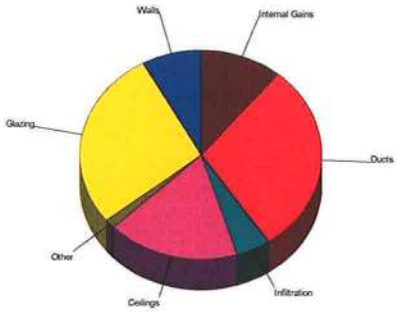
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	3.6	7108	15.8
Glazing	17.5	6491	14.5
Doors	10.7	676	1.5
Ceilings	1.2	4532	10.1
Floors	2.5	9563	21.3
Infiltration	3.2	7640	17.0
Ducts		8890	19.8
Piping		0	0
Humidification		0	0
Ventilation		0	0
Adjustments		0	
Total		**44901**	**100.0**



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	1.5	2949	8.1
Glazing	27.0	10046	27.6
Doors	8.5	533	1.5
Ceilings	1.7	6449	17.7
Floors	0	0	0
Infiltration	0.7	1681	4.6
Ducts		10765	29.6
Ventilation		0	0
Internal gains		4000	11.0
Blower		0	0
Adjustments		0	
Total		**36423**	**100.0**



Latent Cooling Load = 7583 Btuh
Overall U-value = 0.076 Btuh/ft²-°F

Data entries checked.

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Project Information

For: Leonard Johnson
871 SW Tustenuggee Ave, Lake City, FL 32024

Design Conditions

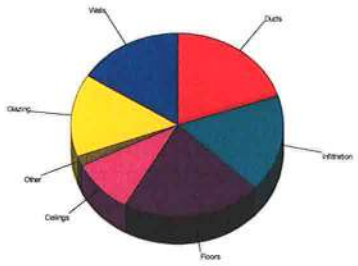
Location:
Gainesville, FL, US
Elevation: 151 ft
Latitude: 30°N

Outdoor:	**Heating**	**Cooling**
Dry bulb (°F)	33	92
Daily range (°F)	-	19 (M)
Wet bulb (°F)	-	77
Wind speed (mph)	15.0	7.5

Indoor:	**Heating**	**Cooling**
Indoor temperature (°F)	70	75
Design TD (°F)	37	17
Relative humidity (%)	30	50
Moisture difference (gr/lb)	10.6	52.0
Infiltration:		
Method	Simplified	
Construction quality	Average	
Fireplaces	1 (Average)	

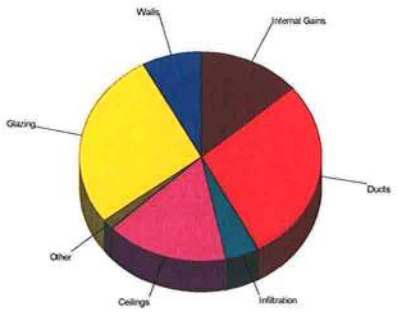
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	3.6	4280	16.0
Glazing	17.5	3918	14.6
Doors	10.7	451	1.7
Ceilings	1.2	2563	9.6
Floors	2.6	5672	21.2
Infiltration	3.2	4612	17.2
Ducts		5307	19.8
Piping		0	0
Humidification		0	0
Ventilation		0	0
Adjustments		0	
Total		**26803**	**100.0**



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	1.5	1776	7.9
Glazing	27.5	6142	27.5
Doors	8.5	355	1.6
Ceilings	1.7	3648	16.3
Floors	0	0	0
Infiltration	0.7	1015	4.5
Ducts		6395	28.6
Ventilation		0	0
Internal gains		3040	13.6
Blower		0	0
Adjustments		0	
Total		**22370**	**100.0**



Latent Cooling Load = 4949 Btuh
Overall U-value = 0.079 Btuh/ft²-°F

Data entries checked.

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Project Information

For: Leonard Johnson
871 SW Tustenuggee Ave, Lake City, FL 32024

Design Conditions

Location:
Gainesville, FL, US
Elevation: 151 ft
Latitude: 30°N

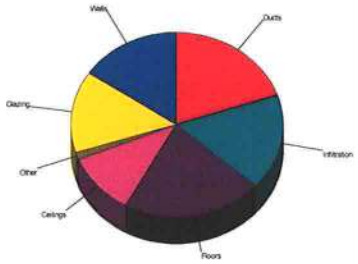
Outdoor:	**Heating**	**Cooling**
Dry bulb (°F)	33	92
Daily range (°F)	-	19 (M)
Wet bulb (°F)	-	77
Wind speed (mph)	15.0	7.5

Indoor:	**Heating**	**Cooling**
Indoor temperature (°F)	70	75
Design TD (°F)	37	17
Relative humidity (%)	30	50
Moisture difference (gr/lb)	10.6	52.0

Infiltration:	
Method	Simplified
Construction quality	Average
Fireplaces	1 (Average)

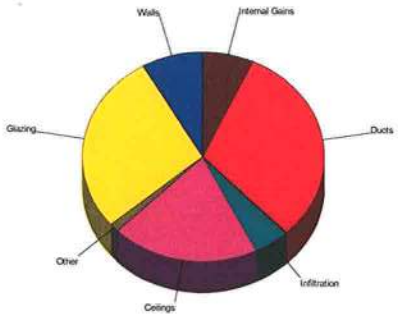
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	3.6	2828	15.6
Glazing	17.4	2574	14.2
Doors	10.7	225	1.2
Ceilings	1.2	1969	10.9
Floors	2.3	3891	21.5
Infiltration	3.2	3028	16.7
Ducts		3583	19.8
Piping		0	0
Humidification		0	0
Ventilation		0	0
Adjustments		0	
Total		**18097**	**100.0**



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	1.5	1173	8.3
Glazing	26.4	3904	27.8
Doors	8.5	178	1.3
Ceilings	1.7	2801	19.9
Floors	0	0	0
Infiltration	0.7	666	4.7
Ducts		4370	31.1
Ventilation		0	0
Internal gains		960	6.8
Blower		0	0
Adjustments		0	
Total		**14053**	**100.0**



Latent Cooling Load = 2634 Btuh
Overall U-value = 0.072 Btuh/ft²-°F

Data entries checked.

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Component Constructions
Entire House
Glenn I. Jones, Inc.

Job:
Date: Mar 14, 2018
By:

552 NW Hilton Ave, Lake City, Fl 32055 Phone: 386-752-5389 Fax: 386-755-3401 Email: customercare@gijinc.com Web: www.GlennIJonesHomeServices.com License...

Project Information

For: Leonard Johnson
871 SW Tustenuggee Ave, Lake City, FL 32024

Design Conditions

Location:
Gainesville, FL, US
Elevation: 151 ft
Latitude: 30°N

Outdoor:	Heating	Cooling
Dry bulb (°F)	33	92
Daily range (°F)	-	19 (M)
Wet bulb (°F)	-	77
Wind speed (mph)	15.0	7.5

Indoor:	Heating	Cooling
Indoor temperature (°F)	70	75
Design TD (°F)	37	17
Relative humidity (%)	30	50
Moisture difference (gr/lb)	10.6	52.0

Infiltration:

Method	Simplified
Construction quality	Average
Fireplaces	1 (Average)

Construction descriptions	Or	Area ft²	U-value Btuh/ft²-°F	Insul R ft²-°F/Btuh	Htg HTM Btuh/ft²	Loss Btuh	Clg HTM Btuh/ft²	Gain Btuh
Walls								
12B-0bw: Frm wall, brk 4" ext, 3/8" wood shth, r-11 cav ins, 1/2" gypsum board int fnsh, 2"x4" wood frm, 16" o.c. stud	n	504	0.097	11.0	3.59	1808	1.49	750
	e	632	0.097	11.0	3.59	2268	1.49	941
	s	363	0.097	11.0	3.59	1304	1.49	541
	w	482	0.097	11.0	3.59	1729	1.49	717
	all	1981	0.097	11.0	3.59	7108	1.49	2949
Partitions (none)								
Windows								
4A5-2ov: 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk; 50% outdoor insect screen; 2 ft overhang (5 ft window ht, 1 ft sep.); 6.67 ft head ht	n	30	0.470	0	17.4	522	13.0	390
	e	20	0.470	0	17.4	348	31.2	624
	s	15	0.470	0	17.4	261	13.0	195
	s	20	0.470	0	17.4	348	13.0	260
	w	15	0.470	0	17.4	261	31.2	468
	all	100	0.470	0	17.4	1739	19.4	1937
10D-v: 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk; 50% outdoor insect screen; 2 ft overhang (7 ft window ht, 1 ft sep.); 6.67 ft head ht	e	42	0.490	0	18.1	761	23.2	973
4A5-2ov: 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk; 50% outdoor insect screen; 2 ft overhang (3 ft window ht, 1 ft sep.); 6.67 ft head ht	e	8	0.470	0	17.4	130	29.4	220
	s	6	0.470	0	17.4	104	13.0	78
	all	14	0.470	0	17.4	235	22.1	298
4A5-2ov: 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk; 50% outdoor insect screen; 2 ft overhang (6 ft window ht, 1 ft sep.); 6.67 ft head ht	e	144	0.470	0	17.4	2504	31.7	4559
	w	72	0.470	0	17.4	1252	31.7	2280
	all	216	0.470	0	17.4	3756	31.7	6839
Doors								
11P0: Door, mtl pur core type	e	21	0.290	10.5	10.7	225	8.45	178
	w	42	0.290	10.5	10.7	451	8.45	355
	all	63	0.290	10.5	10.7	676	8.45	533
Ceilings								
16B-30ad: Attic ceiling, asphalt shingles roof mat, r-30 ceil ins, 1/2" gypsum board int fnsh		3828	0.032	30.0	1.18	4532	1.68	6449

Floors

22A-tpl: Bg floor, light dry soil, on grade depth	261	0.989	0	36.6	9563	0	0

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Project Information

For: Leonard Johnson
871 SW Tustenuggee Ave, Lake City, FL 32024

Design Conditions

Location:
Gainesville, FL, US
Elevation: 151 ft
Latitude: 30°N

Outdoor:	Heating	Cooling
Dry bulb (°F)	33	92
Daily range (°F)	-	19 (M)
Wet bulb (°F)	-	77
Wind speed (mph)	15.0	7.5

Indoor:	Heating	Cooling
Indoor temperature (°F)	70	75
Design TD (°F)	37	17
Relative humidity (%)	30	50
Moisture difference (gr/lb)	10.6	52.0

Infiltration:

Method	Simplified
Construction quality	Average
Fireplaces	1 (Average)

Construction descriptions	Or	Area ft²	U-value Btuh/ft²-°F	Insul R ft²-°F/Btuh	Htg HTM Btuh/ft²	Loss Btuh	Clg HTM Btuh/ft²	Gain Btuh
Walls								
12B-0bw: Frm wall, brk 4" ext, 3/8" wood shth, r-11 cav ins, 1/2" gypsum board int fnsh, 2"x4" wood frm, 16" o.c. stud	n	414	0.097	11.0	3.59	1486	1.49	616
	e	398	0.097	11.0	3.59	1429	1.49	593
	s	57	0.097	11.0	3.59	205	1.49	85
	w	323	0.097	11.0	3.59	1160	1.49	481
	all	1193	0.097	11.0	3.59	4280	1.49	1776
Partitions (none)								
Windows								
4A5-2ov: 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk; 50% outdoor insect screen; 2 ft overhang (5 ft window ht, 1 ft sep.); 6.67 ft head ht	n	30	0.470	0	17.4	522	13.0	390
10D-v: 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk; 50% outdoor insect screen; 2 ft overhang (7 ft window ht, 1 ft sep.); 6.67 ft head ht	e	42	0.490	0	18.1	761	23.2	973
4A5-2ov: 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk; 50% outdoor insect screen; 2 ft overhang (3 ft window ht, 1 ft sep.); 6.67 ft head ht	e	8	0.470	0	17.4	130	29.4	220
4A5-2ov: 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk; 50% outdoor insect screen; 2 ft overhang (6 ft window ht, 1 ft sep.); 6.67 ft head ht	e	72	0.470	0	17.4	1252	31.7	2280
	w	72	0.470	0	17.4	1252	31.7	2280
	all	144	0.470	0	17.4	2504	31.7	4559
Doors								
11P0: Door, mtl pur core type	w	42	0.290	10.5	10.7	451	8.45	355
Ceilings								
16B-30ad: Attic ceiling, asphalt shingles roof mat, r-30 ceil ins, 1/2" gypsum board int fnsh		2165	0.032	30.0	1.18	2563	1.68	3648
Floors								
22A-tpl: Bg floor, light dry soil, on grade depth		155	0.989	0	36.6	5672	0	0

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Project Information

For: Leonard Johnson
871 SW Tustenuggee Ave, Lake City, FL 32024

Design Conditions

Location:
Gainesville, FL, US
Elevation: 151 ft
Latitude: 30°N

Outdoor:	Heating	Cooling
Dry bulb (°F)	33	92
Daily range (°F)	-	19 (M)
Wet bulb (°F)	-	77
Wind speed (mph)	15.0	7.5

Indoor:	Heating	Cooling
Indoor temperature (°F)	70	75
Design TD (°F)	37	17
Relative humidity (%)	30	50
Moisture difference (gr/lb)	10.6	52.0

Infiltration:

Method	Simplified
Construction quality	Average
Fireplaces	1 (Average)

Construction descriptions	Or	Area ft²	U-value Btuh/ft²-°F	Insul R ft²-°F/Btuh	Htg HTM Btuh/ft²	Loss Btuh	Clg HTM Btuh/ft²	Gain Btuh
Walls								
12B-0bw: Frm wall, brk 4" ext, 3/8" wood shth, r-11 cav ins, 1/2" gypsum board int fnsh, 2"x4" wood frm, 16" o.c. stud	n	90	0.097	11.0	3.59	322	1.49	134
	e	234	0.097	11.0	3.59	839	1.49	348
	s	306	0.097	11.0	3.59	1099	1.49	456
	w	158	0.097	11.0	3.59	568	1.49	236
	all	788	0.097	11.0	3.59	2828	1.49	1173
Partitions								
(none)								
Windows								
4A5-2ov: 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk; 50% outdoor insect screen; 2 ft overhang (5 ft window ht, 1 ft sep.); 6.67 ft head ht	e	20	0.470	0	17.4	348	31.2	624
	s	15	0.470	0	17.4	261	13.0	195
	s	20	0.470	0	17.4	348	13.0	260
	w	15	0.470	0	17.4	261	31.2	468
	all	70	0.470	0	17.4	1217	22.1	1547
4A5-2ov: 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk; 50% outdoor insect screen; 2 ft overhang (3 ft window ht, 1 ft sep.); 6.67 ft head ht	s	6	0.470	0	17.4	104	13.0	78
4A5-2ov: 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk; 50% outdoor insect screen; 2 ft overhang (6 ft window ht, 1 ft sep.); 6.67 ft head ht	e	72	0.470	0	17.4	1252	31.7	2280
Doors								
11P0: Door, mtl pur core type	e	21	0.290	10.5	10.7	225	8.45	178
Ceilings								
16B-30ad: Attic ceiling, asphalt shingles roof mat, r-30 ceil ins, 1/2" gypsum board int fnsh		1663	0.032	30.0	1.18	1969	1.68	2801
Floors								
22A-tpl: Bg floor, light dry soil, on grade depth		106	0.989	0	36.6	3891	0	0

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Project Summary
Entire House
Glenn I. Jones, Inc.

Job:
Date: Mar 14, 2018
By:

552 NW Hilton Ave, Lake City, Fl 32055 Phone: 386-752-5389 Fax: 386-755-3401 Email: customercare@gijinc.com Web: www.GlennIJonesHomeServices.com License...

Project Information

For: Leonard Johnson
871 SW Tustenuggee Ave, Lake City, FL 32024

Notes: Contact is Leonard Jones @ 386-867-0142

Design Information

Weather: Gainesville, FL, US

Winter Design Conditions

Outside db	33	°F
Inside db	70	°F
Design TD	37	°F

Summer Design Conditions

Outside db	92	°F
Inside db	75	°F
Design TD	17	°F
Daily range	M	
Relative humidity	50	%
Moisture difference	52	gr/lb

Heating Summary

Structure	36010	Btuh
Ducts	8890	Btuh
Central vent (0 cfm)	0	Btuh
Humidification	0	Btuh
Piping	0	Btuh
Equipment load	44901	Btuh

Sensible Cooling Equipment Load Sizing

Structure	25658	Btuh
Ducts	10765	Btuh
Central vent (0 cfm)	0	Btuh
Blower	0	Btuh
Use manufacturer's data	n	
Rate/swing multiplier	0.97	
Equipment sensible load	35330	Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	1 (Average)

	Heating	Cooling
Area (ft²)	3828	3828
Volume (ft³)	36159	36159
Air changes/hour	0.31	0.15
Equiv. AVF (cfm)	189	90

Latent Cooling Equipment Load Sizing

Structure	5178	Btuh
Ducts	2405	Btuh
Central vent (0 cfm)	0	Btuh
Equipment latent load	7583	Btuh
Equipment total load	42913	Btuh
Req. total capacity at 0.70 SHR	4.2	ton

Heating Equipment Summary

Make	n/a
Trade	n/a
Model	n/a
AHRI ref	n/a
Efficiency	n/a
Heating input	
Heating output	0 Btuh
Temperature rise	0 °F
Actual air flow	0 cfm
Air flow factor	0 cfm/Btuh
Static pressure	0 in H2O
Space thermostat	n/a

Cooling Equipment Summary

Make	n/a
Trade	n/a
Cond	n/a
Coil	n/a
AHRI ref	n/a
Efficiency	n/a
Sensible cooling	0 Btuh
Latent cooling	0 Btuh
Total cooling	0 Btuh
Actual air flow	0 cfm
Air flow factor	0 cfm/Btuh
Static pressure	0 in H2O
Load sensible heat ratio	0

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

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Project Summary
AHU 1
Glenn I. Jones, Inc.

Job:
Date: Mar 14, 2018
By:

552 NW Hilton Ave, Lake City, Fl 32055 Phone: 386-752-5389 Fax: 386-755-3401 Email: customercare@gijinc.com Web: www.GlennIJonesHomeServices.com License...

Project Information

For: Leonard Johnson
871 SW Tustenuggee Ave, Lake City, FL 32024

Notes: Contact is Leonard Jones @ 386-867-0142

Design Information

Weather: Gainesville, FL, US

Winter Design Conditions

Outside db	33 °F
Inside db	70 °F
Design TD	37 °F

Summer Design Conditions

Outside db	92 °F
Inside db	75 °F
Design TD	17 °F
Daily range	M
Relative humidity	50 %
Moisture difference	52 gr/lb

Heating Summary

Structure	21496 Btuh
Ducts	5307 Btuh
Central vent (0 cfm)	0 Btuh
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	26803 Btuh

Sensible Cooling Equipment Load Sizing

Structure	15975 Btuh
Ducts	6395 Btuh
Central vent (0 cfm)	0 Btuh
Blower	0 Btuh
Use manufacturer's data	n
Rate/swing multiplier	0.97
Equipment sensible load	21699 Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	1 (Average)

	Heating	Cooling
Area (ft²)	2165	2165
Volume (ft³)	21040	21040
Air changes/hour	0.32	0.16
Equiv. AVF (cfm)	114	55

Latent Cooling Equipment Load Sizing

Structure	3519 Btuh
Ducts	1430 Btuh
Central vent (0 cfm)	0 Btuh
Equipment latent load	4949 Btuh
Equipment total load	26648 Btuh
Req. total capacity at 0.70 SHR	2.6 ton

Heating Equipment Summary

Make	Daikin
Trade	DAIKIN
Model	DZ16TC0361A*
AHRI ref	6545476
Efficiency	9.5 HSPF
Heating input	
Heating output	34400 Btuh @ 47°F
Temperature rise	27 °F
Actual air flow	1153 cfm
Air flow factor	0.043 cfm/Btuh
Static pressure	0 in H2O
Space thermostat	

Cooling Equipment Summary

Make	Daikin
Trade	DAIKIN
Cond	DZ16TC0361A*
Coil	AVPTC42D14A*
AHRI ref	6545476
Efficiency	12.5 EER, 16 SEER
Sensible cooling	24220 Btuh
Latent cooling	10380 Btuh
Total cooling	34600 Btuh
Actual air flow	1153 cfm
Air flow factor	0.052 cfm/Btuh
Static pressure	0 in H2O
Load sensible heat ratio	0.82

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

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Project Summary
AHU 2
Glenn I. Jones, Inc.

Job:
Date: Mar 14, 2018
By:

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Project Information

For: Leonard Johnson
871 SW Tustenuggee Ave, Lake City, FL 32024

Notes: Contact is Leonard Jones @ 386-867-0142

Design Information

Weather: Gainesville, FL, US

Winter Design Conditions

Outside db	33 °F
Inside db	70 °F
Design TD	37 °F

Summer Design Conditions

Outside db	92 °F
Inside db	75 °F
Design TD	17 °F
Daily range	M
Relative humidity	50 %
Moisture difference	52 gr/lb

Heating Summary

Structure	14514 Btuh
Ducts	3583 Btuh
Central vent (0 cfm)	0 Btuh
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	18097 Btuh

Sensible Cooling Equipment Load Sizing

Structure	9683 Btuh
Ducts	4370 Btuh
Central vent (0 cfm)	0 Btuh
Blower	0 Btuh
Use manufacturer's data	n
Rate/swing multiplier	0.97
Equipment sensible load	13631 Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	1 (Average)

	Heating	Cooling
Area (ft²)	1663	1663
Volume (ft³)	15118	15118
Air changes/hour	0.30	0.14
Equiv. AVF (cfm)	75	36

Latent Cooling Equipment Load Sizing

Structure	1659 Btuh
Ducts	975 Btuh
Central vent (0 cfm)	0 Btuh
Equipment latent load	2634 Btuh
Equipment total load	16265 Btuh
Req. total capacity at 0.70 SHR	1.6 ton

Heating Equipment Summary

Make	Daikin
Trade	DAIKIN
Model	DZ16TC0241A*
AHRI ref	6545434

Efficiency	8.5 HSPF
Heating input	
Heating output	22400 Btuh @ 47°F
Temperature rise	26 °F
Actual air flow	780 cfm
Air flow factor	0.043 cfm/Btuh
Static pressure	0.50 in H2O
Space thermostat	

Cooling Equipment Summary

Make	Daikin
Trade	DAIKIN
Cond	DZ16TC0241A*
Coil	DV30PTCC14A*
AHRI ref	6545434

Efficiency	11.8 EER, 15 SEER
Sensible cooling	16380 Btuh
Latent cooling	7020 Btuh
Total cooling	23400 Btuh
Actual air flow	780 cfm
Air flow factor	0.056 cfm/Btuh
Static pressure	0.50 in H2O
Load sensible heat ratio	0.84

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

wrightsoft

AED Assessment
Entire House
Glenn I. Jones, Inc.

Job:
Date: Mar 14, 2018
By:

552 NW Hilton Ave, Lake City, Fl 32055 Phone: 386-752-5389 Fax: 386-755-3401 Email: customercare@gijinc.com Web: www.GlennIJonesHomeServices.com License...

Project Information

For: Leonard Johnson
871 SW Tustenuggee Ave, Lake City, FL 32024

Design Conditions

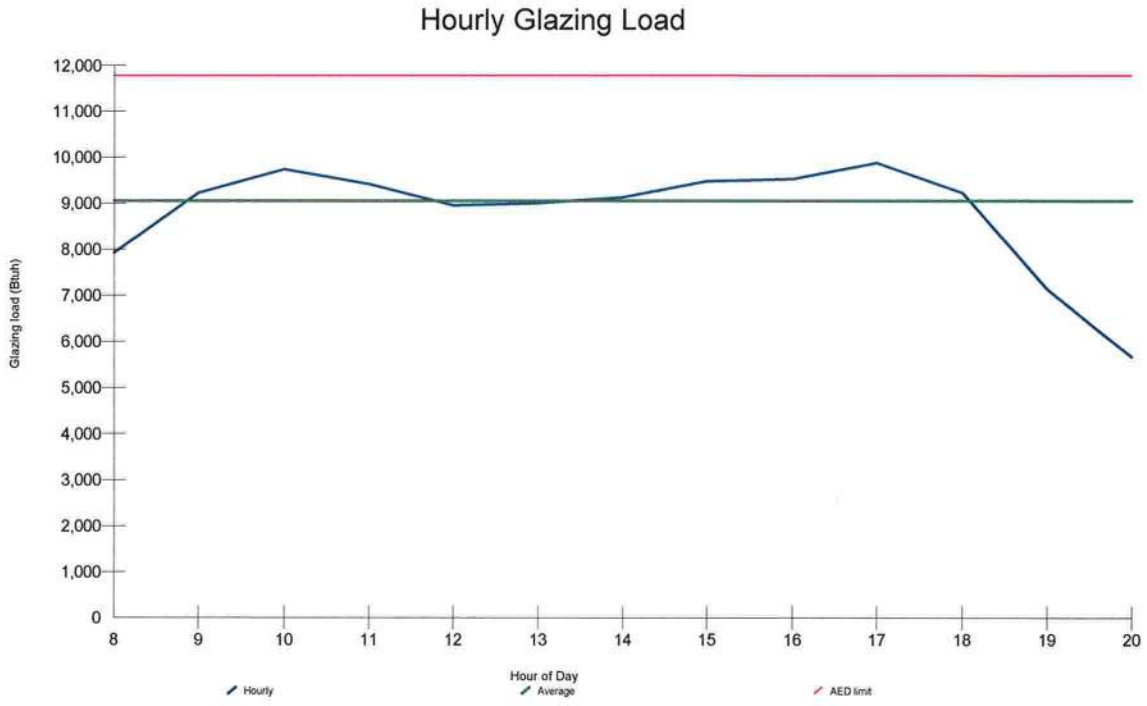
Location:
Gainesville, FL, US
Elevation: 151 ft
Latitude: 30°N

Outdoor:	Heating	Cooling
Dry bulb (°F)	33	92
Daily range (°F)	-	19 (M)
Wet bulb (°F)	-	77
Wind speed (mph)	15.0	7.5

Indoor:	Heating	Cooling
Indoor temperature (°F)	70	75
Design TD (°F)	37	17
Relative humidity (%)	30	50
Moisture difference (gr/lb)	10.6	52.0

Infiltration:

Test for Adequate Exposure Diversity



Maximum hourly glazing load exceeds average by 9.1%.

House has adequate exposure diversity (AED), based on AED limit of 30%.

AED excursion: 0 Btuh

AED Assessment
AHU 1
Glenn I. Jones, Inc.

Job:
Date: Mar 14, 2018
By:

552 NW Hilton Ave, Lake City, Fl 32055 Phone: 386-752-5389 Fax: 386-755-3401 Email: customercare@gijinc.com Web: www.GlennIJonesHomeServices.com License...

Project Information

For: Leonard Johnson
871 SW Tustenuggee Ave, Lake City, FL 32024

Design Conditions

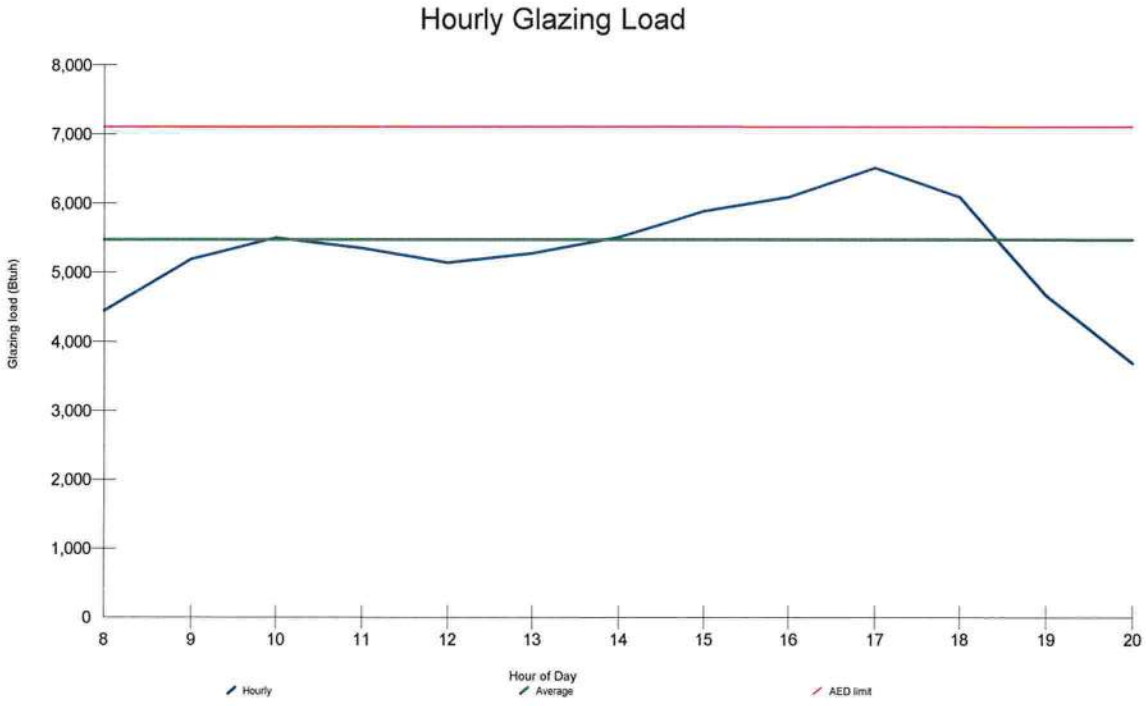
Location:
Gainesville, FL, US
Elevation: 151 ft
Latitude: 30°N

Outdoor:	Heating	Cooling
Dry bulb (°F)	33	92
Daily range (°F)	-	19 (M)
Wet bulb (°F)	-	77
Wind speed (mph)	15.0	7.5

Indoor:	Heating	Cooling
Indoor temperature (°F)	70	75
Design TD (°F)	37	17
Relative humidity (%)	30	50
Moisture difference (gr/lb)	10.6	52.0

Infiltration:

Test for Adequate Exposure Diversity



Maximum hourly glazing load exceeds average by 19.1%.

Zone has adequate exposure diversity (AED), based on AED limit of 30%.

AED excursion: 0 Btuh

AED Assessment
AHU 2
Glenn I. Jones, Inc.

Job:
Date: Mar 14, 2018
By:

552 NW Hilton Ave, Lake City, Fl 32055 Phone: 386-752-5389 Fax: 386-755-3401 Email: customercare@gijinc.com Web: www.GlennIJonesHomeServices.com License...

Project Information

For: Leonard Johnson
871 SW Tustenuggee Ave, Lake City, FL 32024

Design Conditions

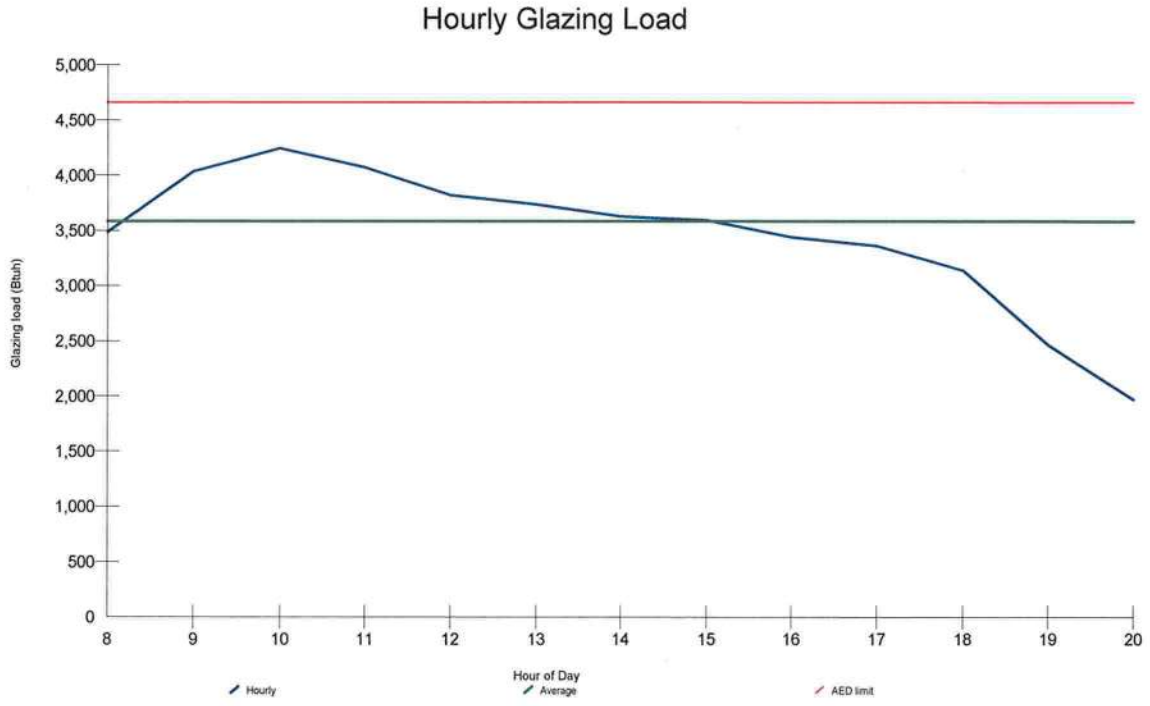
Location:
Gainesville, FL, US
Elevation: 151 ft
Latitude: 30°N

Outdoor:	Heating	Cooling
Dry bulb (°F)	33	92
Daily range (°F)	-	19 (M)
Wet bulb (°F)	-	77
Wind speed (mph)	15.0	7.5

Indoor:	Heating	Cooling
Indoor temperature (°F)	70	75
Design TD (°F)	37	17
Relative humidity (%)	30	50
Moisture difference (gr/lb)	10.6	52.0

Infiltration:

Test for Adequate Exposure Diversity



Maximum hourly glazing load exceeds average by 18.4%.

Zone has adequate exposure diversity (AED), based on AED limit of 30%.

AED excursion: 0 Btuh

wrightsoft

Right-J® Worksheet
Entire House
Glenn I. Jones, Inc.

Job:
Date: Mar 14, 2018
By:

552 NW Hilton Ave, Lake City, Fl 32055 Phone: 386-752-5389 Fax: 386-755-3401 Email: customercare@gijinc.com Web: www.GlennIJonesHomeServices.com License...

							Entire House 261.3 ft				AHU 1 155.0 ft			
1	Room name													
2	Exposed wall						9.4 ft		d		9.7 ft		d	
3	Room height													
4	Room dimensions													
5	Room area						3827.8 ft²				2165.0 ft²			
	Ty	Construction number	U-value (Btuh/ft²-°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	12B-0bw	0.097	n	3.59	1.49	534	504	1808	750	444	414	1486	616
.	G	4A5-2ov	0.470	n	17.39	13.00	30	0	522	390	30	0	522	390
.	W	12B-0bw	0.097	e	3.59	1.49	866	632	2268	941	520	398	1429	593
.	G	10D-v	0.490	e	18.13	23.17	42	8	761	973	42	8	761	973
11	G	4A5-2ov	0.470	e	17.39	29.35	8	3	130	220	8	3	130	220
	G	4A5-2ov	0.470	e	17.39	31.20	20	5	348	624	0	0	0	0
	G	4A5-2ov	0.470	e	17.39	31.66	144	32	2504	4559	72	16	1252	2280
	D	11P0	0.290	e	10.73	8.45	21	21	225	178	0	0	0	0
	W	12B-0bw	0.097	s	3.59	1.49	404	363	1304	541	57	57	205	85
	G	4A5-2ov	0.470	s	17.39	13.00	6	12	104	78	0	0	0	0
	G	4A5-2ov	0.470	s	17.39	13.00	15	30	261	195	0	0	0	0
	G	4A5-2ov	0.470	s	17.39	13.00	20	40	348	260	0	0	0	0
	W	12B-0bw	0.097	w	3.59	1.49	611	482	1729	717	437	323	1160	481
	G	4A5-2ov	0.470	w	17.39	31.20	15	4	261	468	0	0	0	0
	G	4A5-2ov	0.470	w	17.39	31.66	72	16	1252	2280	72	16	1252	2280
	D	11P0	0.290	w	10.73	8.45	42	42	451	355	42	42	451	355
	C	16B-30ad	0.032	-	1.18	1.68	3828	3828	4532	6449	2165	2165	2563	3648
	F	22A-tpl	0.989	-	36.59	0.00	3828	261	9563	0	2165	155	5672	0
6	c) AED excursion									0				0
	Envelope loss/gain								28371	19977			16884	11920
12	a) Infiltration								7640	1681			4612	1015
	b) Room ventilation								0	0			0	0
13	Internal gains:	Occupants @ 230					10			2300	8			1840
		Appliances/other								1700				1200
	Subtotal (lines 6 to 13)								36010	25658			21496	15975
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								36010	25658			21496	15975
15	Duct loads						25%	42%	8890	10765	25%	40%	5307	6395
	Total room load								44901	36423			26803	22370
	Air required (cfm)								1933	1933			1153	1153

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

wrightsoft

Right-J® Worksheet
Entire House
Glenn I. Jones, Inc.

Job:
Date: Mar 14, 2018
By:

552 NW Hilton Ave, Lake City, Fl 32055 Phone: 386-752-5389 Fax: 386-755-3401 Email: customercare@gijinc.com Web: www.GlennIJonesHomeServices.com License...

1	Room name						AHU 2							
2	Exposed wall						106.3 ft							
3	Room height						9.1 ft		d					
4	Room dimensions													
5	Room area						1662.8 ft²							
	Ty	Construction number	U-value (Btuh/ft²-°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area or perimeter		Load	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	12B-0bw	0.097	n	3.59	1.49	90	90	322	134				
.	└G	4A5-2ov	0.470	n	17.39	13.00	0	0	0	0				
.	W	12B-0bw	0.097	e	3.59	1.49	347	234	839	348				
.	├G	10D-v	0.490	e	18.13	23.17	0	0	0	0				
11	├G	4A5-2ov	0.470	e	17.39	29.35	0	0	0	0				
	├G	4A5-2ov	0.470	e	17.39	31.20	20	5	348	624				
	├G	4A5-2ov	0.470	e	17.39	31.66	72	16	1252	2280				
	└D	11P0	0.290	e	10.73	8.45	21	21	225	178				
	W	12B-0bw	0.097	s	3.59	1.49	347	306	1099	456				
	├G	4A5-2ov	0.470	s	17.39	13.00	6	12	104	78				
	├G	4A5-2ov	0.470	s	17.39	13.00	15	30	261	195				
	└G	4A5-2ov	0.470	s	17.39	13.00	20	40	348	260				
	W	12B-0bw	0.097	w	3.59	1.49	173	158	568	236				
	├G	4A5-2ov	0.470	w	17.39	31.20	15	4	261	468				
	├G	4A5-2ov	0.470	w	17.39	31.66	0	0	0	0				
	└D	11P0	0.290	w	10.73	8.45	0	0	0	0				
	C	16B-30ad	0.032	-	1.18	1.68	1663	1663	1969	2801				
	F	22A-tpl	0.989	-	36.59	0.00	1663	106	3891	0				
6	c) AED excursion									0				
	Envelope loss/gain								11487	8057				
12	a) Infiltration								3028	666				
	b) Room ventilation								0	0				
13	Internal gains:	Occupants @ 230					2			460				
		Appliances/other								500				
	Subtotal (lines 6 to 13)								14514	9683				
	Less external load								0	0				
	Less transfer								0	0				
	Redistribution								0	0				
14	Subtotal								14514	9683				
15	Duct loads						25%	45%	3583	4370				
	Total room load								18097	14053				
	Air required (cfm)								780	780				

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

wrightsoft

Right-J® Worksheet
AHU 1
Glenn I. Jones, Inc.

Job:
Date: Mar 14, 2018
By:

552 NW Hilton Ave, Lake City, Fl 32055 Phone: 386-752-5389 Fax: 386-755-3401 Email: customercare@gijinc.com Web: www.GlennIJonesHomeServices.com License...

1	Room name						AHU 1				great rm			
2	Exposed wall						155.0 ft				19.0 ft			
3	Room height						9.7 ft		d		11.0 ft		heat/cool	
4	Room dimensions										1.0	x 619.3 ft		
5	Room area						2165.0 ft²				619.3 ft²			
	Ty	Construction number	U-value (Btuh/ft²-°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	12B-0bw	0.097	n	3.59	1.49	444	414	1486	616	0	0	0	0
.	└G	4A5-2ov	0.470	n	17.39	13.00	30	0	522	390	0	0	0	0
.	W	12B-0bw	0.097	e	3.59	1.49	520	398	1429	593	209	167	599	249
.	├G	10D-v	0.490	e	18.13	23.17	42	8	761	973	42	4	761	973
11	├G	4A5-2ov	0.470	e	17.39	29.35	8	3	130	220	0	0	0	0
	├G	4A5-2ov	0.470	e	0.00	0.00	0	0	0	0	0	0	0	0
	├G	4A5-2ov	0.470	e	17.39	31.66	72	16	1252	2280	0	0	0	0
	└D	11P0	0.290	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	12B-0bw	0.097	s	3.59	1.49	57	57	205	85	0	0	0	0
	├G	4A5-2ov	0.470	s	0.00	0.00	0	0	0	0	0	0	0	0
	├G	4A5-2ov	0.470	s	0.00	0.00	0	0	0	0	0	0	0	0
	└G	4A5-2ov	0.470	s	0.00	0.00	0	0	0	0	0	0	0	0
	W	12B-0bw	0.097	w	3.59	1.49	437	323	1160	481	0	0	0	0
	├G	4A5-2ov	0.470	w	0.00	0.00	0	0	0	0	0	0	0	0
	├G	4A5-2ov	0.470	w	17.39	31.66	72	16	1252	2280	0	0	0	0
	└D	11P0	0.290	w	10.73	8.45	42	42	451	355	0	0	0	0
	C	16B-30ad	0.032	-	1.18	1.68	2165	2165	2563	3648	619	619	733	1043
	F	22A-tpl	0.989	-	36.59	0.00	2165	155	5672	0	619	19	695	0
6	c) AED excursion									0				-286
	Envelope loss/gain								16884	11920			2789	1980
12	a) Infiltration								4612	1015			661	145
	b) Room ventilation								0	0			0	0
13	Internal gains:	Occupants @ 230					8			1840	8			1840
		Appliances/other								1200				0
	Subtotal (lines 6 to 13)								21496	15975			3451	3965
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			12	15
14	Subtotal								21496	15975			3462	3981
15	Duct loads						25%	40%	5307	6395	25%	40%	855	1593
	Total room load								26803	22370			4317	5574
	Air required (cfm)								1153	1153			186	287

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

wrightsoft

Right-J® Worksheet
AHU 1
Glenn I. Jones, Inc.

Job:
Date: Mar 14, 2018
By:

552 NW Hilton Ave, Lake City, Fl 32055 Phone: 386-752-5389 Fax: 386-755-3401 Email: customercare@gijinc.com Web: www.GlennIJonesHomeServices.com License...

1	Room name						pwdr rm				wic 2			
2	Exposed wall						9.3 ft				18.7 ft			
3	Room height						9.0 ft		heat/cool		9.0 ft		heat/cool	
4	Room dimensions						9.3 x 6.3 ft				6.7 x 12.0 ft			
5	Room area						59.1 ft²				80.0 ft²			
	Ty	Construction number	U-value (Btuh/ft²-°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	12B-0bw	0.097	n	3.59	1.49	0	0	0	0	108	108	388	161
.	└G	4A5-2ov	0.470	n	17.39	13.00	0	0	0	0	0	0	0	0
.	W	12B-0bw	0.097	e	3.59	1.49	84	77	275	114	60	60	215	89
.	├G	10D-v	0.490	e	18.13	23.17	0	0	0	0	0	0	0	0
11	├G	4A5-2ov	0.470	e	17.39	29.35	8	2	130	220	0	0	0	0
	├G	4A5-2ov	0.470	e	0.00	0.00	0	0	0	0	0	0	0	0
	├G	4A5-2ov	0.470	e	17.39	31.66	0	0	0	0	0	0	0	0
	└D	11P0	0.290	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	12B-0bw	0.097	s	3.59	1.49	0	0	0	0	0	0	0	0
	├G	4A5-2ov	0.470	s	0.00	0.00	0	0	0	0	0	0	0	0
	├G	4A5-2ov	0.470	s	0.00	0.00	0	0	0	0	0	0	0	0
	└G	4A5-2ov	0.470	s	0.00	0.00	0	0	0	0	0	0	0	0
	W	12B-0bw	0.097	w	3.59	1.49	0	0	0	0	0	0	0	0
	├G	4A5-2ov	0.470	w	0.00	0.00	0	0	0	0	0	0	0	0
	├G	4A5-2ov	0.470	w	17.39	31.66	0	0	0	0	0	0	0	0
	└D	11P0	0.290	w	10.73	8.45	0	0	0	0	0	0	0	0
	C	16B-30ad	0.032	-	1.18	1.68	59	59	70	100	80	80	95	135
	F	22A-tpl	0.989	-	36.59	0.00	59	9	342	0	80	19	683	0
6	c) AED excursion									-38				-42
	Envelope loss/gain								817	396			1381	343
12	a) Infiltration								266	58			531	117
	b) Room ventilation								0	0			0	0
13	Internal gains:	Occupants @ 230					0			0	0			0
		Appliances/other								0				0
	Subtotal (lines 6 to 13)								1082	454			1912	460
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								19	25			12	15
14	Subtotal								1102	480			1924	476
15	Duct loads						25%	40%	272	192	25%	40%	475	190
	Total room load								1374	672			2399	666
	Air required (cfm)								59	35			103	34

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

wrightsoft

Right-J® Worksheet
AHU 1
Glenn I. Jones, Inc.

Job:
Date: Mar 14, 2018
By:

552 NW Hilton Ave, Lake City, Fl 32055 Phone: 386-752-5389 Fax: 386-755-3401 Email: customercare@gijinc.com Web: www.GlennIJonesHomeServices.com License...

1	Room name						bed 2				mech 1			
2	Exposed wall						13.3 ft				0 ft			
3	Room height						9.0 ft		heat/cool		9.0 ft		heat/cool	
4	Room dimensions						1.0	x 229.3 ft			9.3	x 5.7 ft		
5	Room area						229.3 ft²				52.9 ft²			
	Ty	Construction number	U-value (Btuh/ft²-°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	12B-0bw	0.097	n	3.59	1.49	120	90	323	134	0	0	0	0
.	└G	4A5-2ov	0.470	n	17.39	13.00	30	0	522	390	0	0	0	0
.	W	12B-0bw	0.097	e	3.59	1.49	0	0	0	0	0	0	0	0
.	├G	10D-v	0.490	e	18.13	23.17	0	0	0	0	0	0	0	0
11	├G	4A5-2ov	0.470	e	17.39	29.35	0	0	0	0	0	0	0	0
	├G	4A5-2ov	0.470	e	0.00	0.00	0	0	0	0	0	0	0	0
	├G	4A5-2ov	0.470	e	17.39	31.66	0	0	0	0	0	0	0	0
	└D	11P0	0.290	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	12B-0bw	0.097	s	3.59	1.49	0	0	0	0	0	0	0	0
	├G	4A5-2ov	0.470	s	0.00	0.00	0	0	0	0	0	0	0	0
	├G	4A5-2ov	0.470	s	0.00	0.00	0	0	0	0	0	0	0	0
	└G	4A5-2ov	0.470	s	0.00	0.00	0	0	0	0	0	0	0	0
	W	12B-0bw	0.097	w	3.59	1.49	0	0	0	0	0	0	0	0
	├G	4A5-2ov	0.470	w	0.00	0.00	0	0	0	0	0	0	0	0
	├G	4A5-2ov	0.470	w	17.39	31.66	0	0	0	0	0	0	0	0
	└D	11P0	0.290	w	10.73	8.45	0	0	0	0	0	0	0	0
	C	16B-30ad	0.032	-	1.18	1.68	229	229	272	386	53	53	63	89
	F	22A-tpl	0.989	-	36.59	0.00	229	13	488	0	53	0	0	0
6	c) AED excursion									-82				-7
	Envelope loss/gain								1604	828			63	82
12	a) Infiltration								380	84			0	0
	b) Room ventilation								0	0			0	0
13	Internal gains:	Occupants @ 230					0			0	0			0
		Appliances/other								0				0
	Subtotal (lines 6 to 13)								1984	912			63	82
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								19	25			-63	-82
14	Subtotal								2003	937			0	0
15	Duct loads						25%	40%	495	375	25%	40%	0	0
	Total room load								2498	1312			0	0
	Air required (cfm)								107	68			0	0

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

wrightsoft

Right-J® Worksheet
AHU 1
Glenn I. Jones, Inc.

Job:
Date: Mar 14, 2018
By:

552 NW Hilton Ave, Lake City, Fl 32055 Phone: 386-752-5389 Fax: 386-755-3401 Email: customercare@gijinc.com Web: www.GlennIJonesHomeServices.com License...

1	Room name						bath 2				bed 3				
2	Exposed wall						20.3 ft				30.3 ft				
3	Room height						9.0 ft		heat/cool		9.0 ft		heat/cool		
4	Room dimensions						1.0	x 148.0 ft			1.0	x 230.2 ft			
5	Room area						148.0 ft²				230.2 ft²				
	Ty	Construction number	U-value (Btuh/ft²-°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)		
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	
6	W	12B-0bw	0.097	n	3.59	1.49	123	123	441	183	60	60	215	89	
.	G	4A5-2ov	0.470	n	17.39	13.00	0	0	0	0	0	0	0	0	
.	W	12B-0bw	0.097	e	3.59	1.49	0	0	0	0	0	0	0	0	
.	G	10D-v	0.490	e	18.13	23.17	0	0	0	0	0	0	0	0	
11	G	4A5-2ov	0.470	e	17.39	29.35	0	0	0	0	0	0	0	0	
	G	4A5-2ov	0.470	e	0.00	0.00	0	0	0	0	0	0	0	0	
	G	4A5-2ov	0.470	e	17.39	31.66	0	0	0	0	0	0	0	0	
	D	11P0	0.290	e	0.00	0.00	0	0	0	0	0	0	0	0	
	W	12B-0bw	0.097	s	3.59	1.49	0	0	0	0	33	33	118	49	
	G	4A5-2ov	0.470	s	0.00	0.00	0	0	0	0	0	0	0	0	
	G	4A5-2ov	0.470	s	0.00	0.00	0	0	0	0	0	0	0	0	
	G	4A5-2ov	0.470	s	0.00	0.00	0	0	0	0	0	0	0	0	
	W	12B-0bw	0.097	w	3.59	1.49	60	60	215	89	180	144	517	214	
	G	4A5-2ov	0.470	w	0.00	0.00	0	0	0	0	0	0	0	0	
	G	4A5-2ov	0.470	w	17.39	31.66	0	0	0	0	36	4	626	1140	
	D	11P0	0.290	w	10.73	8.45	0	0	0	0	0	0	0	0	
	C	16B-30ad	0.032	-	1.18	1.68	148	148	175	249	230	230	273	388	
	F	22A-tpl	0.989	-	36.59	0.00	148	20	744	0	230	30	1110	0	
6	c) AED excursion									-54				384	
	Envelope loss/gain								1576	468			2859	2264	
12	a) Infiltration								579	127			864	190	
	b) Room ventilation								0	0			0	0	
13	Internal gains:	Occupants @ 230					0			0	0			0	
		Appliances/other								0				0	
	Subtotal (lines 6 to 13)								2155	595			3723	2454	
	Less external load								0	0			0	0	
	Less transfer								0	0			0	0	
	Redistribution								0	0			0	0	
14	Subtotal								2155	595			3723	2454	
15	Duct loads						25%	40%	532	238	25%	40%	919	982	
	Total room load								2687	834			4642	3437	
	Air required (cfm)								116	43			200	177	

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

wrightsoft

Right-J® Worksheet
AHU 1
Glenn I. Jones, Inc.

Job:
Date: Mar 14, 2018
By:

552 NW Hilton Ave, Lake City, Fl 32055 Phone: 386-752-5389 Fax: 386-755-3401 Email: customercare@gijinc.com Web: www.GlennIJonesHomeServices.com License...

1	Room name						foyer				dining			
2	Exposed wall						8.3 ft				19.0 ft			
3	Room height						10.0 ft		heat/cool		9.0 ft		heat/cool	
4	Room dimensions						8.3 x 10.7 ft				12.7 x 14.3 ft			
5	Room area						88.9 ft²				181.6 ft²			
	Ty	Construction number	U-value (Btuh/ft²-°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	12B-0bw	0.097	n	3.59	1.49	0	0	0	0	33	33	118	49
.	└G	4A5-2ov	0.470	n	17.39	13.00	0	0	0	0	0	0	0	0
.	W	12B-0bw	0.097	e	3.59	1.49	0	0	0	0	0	0	0	0
.	├G	10D-v	0.490	e	18.13	23.17	0	0	0	0	0	0	0	0
11	├G	4A5-2ov	0.470	e	17.39	29.35	0	0	0	0	0	0	0	0
	├G	4A5-2ov	0.470	e	0.00	0.00	0	0	0	0	0	0	0	0
	├G	4A5-2ov	0.470	e	17.39	31.66	0	0	0	0	0	0	0	0
	└D	11P0	0.290	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	12B-0bw	0.097	s	3.59	1.49	0	0	0	0	24	24	86	36
	├G	4A5-2ov	0.470	s	0.00	0.00	0	0	0	0	0	0	0	0
	├G	4A5-2ov	0.470	s	0.00	0.00	0	0	0	0	0	0	0	0
	└G	4A5-2ov	0.470	s	0.00	0.00	0	0	0	0	0	0	0	0
	W	12B-0bw	0.097	w	3.59	1.49	83	41	148	62	114	78	280	116
	├G	4A5-2ov	0.470	w	0.00	0.00	0	0	0	0	0	0	0	0
	├G	4A5-2ov	0.470	w	17.39	31.66	0	0	0	0	36	4	626	1140
	└D	11P0	0.290	w	10.73	8.45	42	42	451	355	0	0	0	0
	C	16B-30ad	0.032	-	1.18	1.68	89	89	105	150	182	182	215	306
	F	22A-tpl	0.989	-	36.59	0.00	89	8	305	0	182	19	695	0
6	c) AED excursion									-52				409
	Envelope loss/gain								1009	515			2021	2056
12	a) Infiltration								264	58			541	119
	b) Room ventilation								0	0			0	0
13	Internal gains:	Occupants @ 230					0			0	0			0
		Appliances/other								0				0
	Subtotal (lines 6 to 13)								1273	573			2562	2175
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								1273	573			2562	2175
15	Duct loads						25%	40%	314	229	25%	40%	632	871
	Total room load								1587	802			3194	3045
	Air required (cfm)								68	41			137	157

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

wrightsoft

Right-J® Worksheet
AHU 1
Glenn I. Jones, Inc.

Job:
Date: Mar 14, 2018
By:

552 NW Hilton Ave, Lake City, Fl 32055 Phone: 386-752-5389 Fax: 386-755-3401 Email: customercare@gijinc.com Web: www.GlennIJonesHomeServices.com License...

		keeping	kitchen
1	Room name	16.7 ft	0 ft
2	Exposed wall	10.0 ft	9.0 ft
3	Room height	heat/cool	heat/cool
4	Room dimensions	16.7 x 13.7 ft	1.0 x 247.9 ft
5	Room area	227.8 ft²	247.9 ft²

	Ty	Construction number	U-value (Btuh/ft²-°F)	Or	HTM (Btuh/ft²)		keeping Area (ft²) or perimeter (ft)		keeping Load (Btuh)		kitchen Area (ft²) or perimeter (ft)		kitchen Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	12B-0bw	0.097	n	3.59	1.49	0	0	0	0	0	0	0	0
.	G	4A5-2ov	0.470	n	17.39	13.00	0	0	0	0	0	0	0	0
.	W	12B-0bw	0.097	e	3.59	1.49	167	95	340	141	0	0	0	0
.	G	10D-v	0.490	e	18.13	23.17	0	0	0	0	0	0	0	0
11	G	4A5-2ov	0.470	e	17.39	29.35	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	e	17.39	31.66	72	8	1252	2280	0	0	0	0
	D	11P0	0.290	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	12B-0bw	0.097	s	3.59	1.49	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	s	0.00	0.00	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	s	0.00	0.00	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	s	0.00	0.00	0	0	0	0	0	0	0	0
	W	12B-0bw	0.097	w	3.59	1.49	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	w	0.00	0.00	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	w	17.39	31.66	0	0	0	0	0	0	0	0
	D	11P0	0.290	w	10.73	8.45	0	0	0	0	0	0	0	0
	C	16B-30ad	0.032	-	1.18	1.68	228	228	270	384	248	248	294	418
	F	22A-tpl	0.989	-	36.59	0.00	228	17	610	0	248	0	0	0
6	c) AED excursion									-99				-134
	Envelope loss/gain								2471	2705			294	284
12	a) Infiltration								527	116			0	0
	b) Room ventilation								0	0			0	0
13	Internal gains:	Occupants @ 230					0			0	0			0
		Appliances/other								0				1200
	Subtotal (lines 6 to 13)								2999	2821			294	1484
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								2999	2821			294	1484
15	Duct loads						25%	40%	740	1129	25%	40%	72	594
	Total room load								3739	3951			366	2078
	Air required (cfm)								161	204			16	107

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

wrightsoft

Right-J® Worksheet
AHU 2
Glenn I. Jones, Inc.

Job:
Date: Mar 14, 2018
By:

552 NW Hilton Ave, Lake City, Fl 32055 Phone: 386-752-5389 Fax: 386-755-3401 Email: customercare@gijinc.com Web: www.GlennIJonesHomeServices.com License...

1	Room name						AHU 2				bed 4			
2	Exposed wall						106.3 ft				19.7 ft			
3	Room height						9.1 ft		d		10.0 ft		heat/cool	
4	Room dimensions										1.0	x 201.7 ft		
5	Room area						1662.8 ft²				201.7 ft²			

	Ty	Construction number	U-value (Btuh/ft²-°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	12B-0bw	0.097	n	3.59	1.49	90	90	322	134	0	0	0	0
.	└G	4A5-2ov	0.470	n	0.00	0.00	0	0	0	0	0	0	0	0
.	W	12B-0bw	0.097	e	3.59	1.49	347	234	839	348	0	0	0	0
.	├G	10D-v	0.490	e	0.00	0.00	0	0	0	0	0	0	0	0
11	├G	4A5-2ov	0.470	e	0.00	0.00	0	0	0	0	0	0	0	0
	├G	4A5-2ov	0.470	e	17.39	31.20	20	5	348	624	0	0	0	0
	├G	4A5-2ov	0.470	e	17.39	31.66	72	16	1252	2280	0	0	0	0
	└D	11P0	0.290	e	10.73	8.45	21	21	225	178	0	0	0	0
	W	12B-0bw	0.097	s	3.59	1.49	347	306	1099	456	23	23	84	35
	├G	4A5-2ov	0.470	s	17.39	13.00	6	12	104	78	0	0	0	0
	├G	4A5-2ov	0.470	s	17.39	13.00	15	30	261	195	0	0	0	0
	└G	4A5-2ov	0.470	s	17.39	13.00	20	40	348	260	0	0	0	0
	W	12B-0bw	0.097	w	3.59	1.49	173	158	568	236	173	158	568	236
	├G	4A5-2ov	0.470	w	17.39	31.20	15	4	261	468	15	2	261	468
	├G	4A5-2ov	0.470	w	0.00	0.00	0	0	0	0	0	0	0	0
	└D	11P0	0.290	w	0.00	0.00	0	0	0	0	0	0	0	0
	C	16B-30ad	0.032	-	1.18	1.68	1663	1663	1969	2801	202	202	239	340
	F	22A-tpl	0.989	-	36.59	0.00	1663	106	3891	0	202	20	720	0

6	c) AED excursion					0				196
	Envelope loss/gain				11487	8057			1871	1274
12	a) Infiltration				3028	666			622	137
	b) Room ventilation				0	0			0	0
13	Internal gains:	Occupants @ 230	2			460	0			0
		Appliances/other				500				0
	Subtotal (lines 6 to 13)				14514	9683			2493	1411
	Less external load				0	0			0	0
	Less transfer				0	0			0	0
	Redistribution				0	0			50	69
14	Subtotal				14514	9683			2544	1479
15	Duct loads		25%	45%	3583	4370	25%	45%	628	668
	Total room load				18097	14053			3172	2147
	Air required (cfm)				780	780			137	119

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

wrightsoft

Right-J® Worksheet
AHU 2
Glenn I. Jones, Inc.

Job:
Date: Mar 14, 2018
By:

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1	Room name						bath 3				rear vest				
2	Exposed wall						0 ft				0 ft				
3	Room height						8.0 ft		heat/cool		8.0 ft		heat/cool		
4	Room dimensions						8.3 x 8.7 ft				8.3 x 5.7 ft				
5	Room area						72.2 ft²				47.2 ft²				
	Ty	Construction number	U-value (Btuh/ft²-°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)		
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	
6	W	12B-0bw	0.097	n	3.59	1.49	0	0	0	0	0	0	0	0	
.	└G	4A5-2ov	0.470	n	0.00	0.00	0	0	0	0	0	0	0	0	
.	W	12B-0bw	0.097	e	3.59	1.49	0	0	0	0	0	0	0	0	
.	├G	10D-v	0.490	e	0.00	0.00	0	0	0	0	0	0	0	0	
11	├G	4A5-2ov	0.470	e	0.00	0.00	0	0	0	0	0	0	0	0	
	├G	4A5-2ov	0.470	e	17.39	31.20	0	0	0	0	0	0	0	0	
	├G	4A5-2ov	0.470	e	17.39	31.66	0	0	0	0	0	0	0	0	
	└D	11P0	0.290	e	10.73	8.45	0	0	0	0	0	0	0	0	
	W	12B-0bw	0.097	s	3.59	1.49	0	0	0	0	0	0	0	0	
	├G	4A5-2ov	0.470	s	17.39	13.00	0	0	0	0	0	0	0	0	
	├G	4A5-2ov	0.470	s	17.39	13.00	0	0	0	0	0	0	0	0	
	└G	4A5-2ov	0.470	s	17.39	13.00	0	0	0	0	0	0	0	0	
	W	12B-0bw	0.097	w	3.59	1.49	0	0	0	0	0	0	0	0	
	├G	4A5-2ov	0.470	w	17.39	31.20	0	0	0	0	0	0	0	0	
	├G	4A5-2ov	0.470	w	0.00	0.00	0	0	0	0	0	0	0	0	
	└D	11P0	0.290	w	0.00	0.00	0	0	0	0	0	0	0	0	
	C	16B-30ad	0.032	-	1.18	1.68	72	72	86	122	47	47	56	80	
	F	22A-tpl	0.989	-	36.59	0.00	72	0	0	0	47	0	0	0	
6	c) AED excursion									-5				-3	
	Envelope loss/gain								86	117			56	76	
12	a) Infiltration								0	0			0	0	
	b) Room ventilation								0	0			0	0	
13	Internal gains:	Occupants @ 230					0			0	0			0	
		Appliances/other								0				0	
	Subtotal (lines 6 to 13)								86	117			56	76	
	Less external load								0	0			0	0	
	Less transfer								0	0			0	0	
	Redistribution								35	47			-56	-76	
14	Subtotal								120	164			0	0	
15	Duct loads						25%	45%	30	74	25%	45%	0	0	
	Total room load								150	238			0	0	
	Air required (cfm)								6	13			0	0	

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

wrightsoft

Right-J® Worksheet
AHU 2
Glenn I. Jones, Inc.

Job:
Date: Mar 14, 2018
By:

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		pantry	laundry
1	Room name		
2	Exposed wall	0 ft	11.7 ft
3	Room height	8.0 ft	9.0 ft
4	Room dimensions	6.7 x 10.3 ft	heat/cool 8.0 x 13.3 ft
5	Room area	68.9 ft²	106.7 ft²

	Ty	Construction number	U-value (Btuh/ft²-°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	12B-0bw	0.097	n	3.59	1.49	0	0	0	0	33	33	118	49
.	G	4A5-2ov	0.470	n	0.00	0.00	0	0	0	0	0	0	0	0
.	W	12B-0bw	0.097	e	3.59	1.49	0	0	0	0	72	51	183	76
.	G	10D-v	0.490	e	0.00	0.00	0	0	0	0	0	0	0	0
11	G	4A5-2ov	0.470	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	e	17.39	31.20	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	e	17.39	31.66	0	0	0	0	0	0	0	0
	D	11P0	0.290	e	10.73	8.45	0	0	0	0	21	21	225	178
	W	12B-0bw	0.097	s	3.59	1.49	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	s	17.39	13.00	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	s	17.39	13.00	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	s	17.39	13.00	0	0	0	0	0	0	0	0
	W	12B-0bw	0.097	w	3.59	1.49	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	w	17.39	31.20	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	w	0.00	0.00	0	0	0	0	0	0	0	0
	D	11P0	0.290	w	0.00	0.00	0	0	0	0	0	0	0	0
	C	16B-30ad	0.032	-	1.18	1.68	69	69	82	116	107	107	126	180
	F	22A-tpl	0.989	-	36.59	0.00	69	0	0	0	107	12	427	0
6	c) AED excursion									-5				-43
	Envelope loss/gain								82	111			1080	439
12	a) Infiltration								0	0			332	73
	b) Room ventilation								0	0			0	0
13	Internal gains:	Occupants @ 230					0			0	0			0
		Appliances/other								0				500
	Subtotal (lines 6 to 13)								82	111			1412	1012
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								49	66			23	31
14	Subtotal								130	178			1435	1043
15	Duct loads						25%	45%	32	80	25%	45%	354	471
	Total room load								162	258			1789	1514
	Air required (cfm)								7	14			77	84

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

wrightsoft

Right-J® Worksheet
AHU 2
Glenn I. Jones, Inc.

Job:
Date: Mar 14, 2018
By:

552 NW Hilton Ave, Lake City, Fl 32055 Phone: 386-752-5389 Fax: 386-755-3401 Email: customercare@gijinc.com Web: www.GlennIJonesHomeServices.com License...

		mstr bed 21.7 ft 10.0 ft heat/cool 1.0 x 380.0 ft 380.0 ft²	mstr bath 31.0 ft 8.0 ft heat/cool 1.0 x 214.2 ft 214.2 ft²
1	Room name		
2	Exposed wall		
3	Room height		
4	Room dimensions		
5	Room area		

	Ty	Construction number	U-value (Btuh/ft²-°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	12B-0bw	0.097	n	3.59	1.49	57	57	203	84	0	0	0	0
.	└G	4A5-2ov	0.470	n	0.00	0.00	0	0	0	0	0	0	0	0
.	W	12B-0bw	0.097	e	3.59	1.49	160	88	316	131	115	95	340	141
.	├G	10D-v	0.490	e	0.00	0.00	0	0	0	0	0	0	0	0
11	├G	4A5-2ov	0.470	e	0.00	0.00	0	0	0	0	0	0	0	0
	├G	4A5-2ov	0.470	e	17.39	31.20	0	0	0	0	20	3	348	624
	├G	4A5-2ov	0.470	e	17.39	31.66	72	8	1252	2280	0	0	0	0
	└D	11P0	0.290	e	10.73	8.45	0	0	0	0	0	0	0	0
	W	12B-0bw	0.097	s	3.59	1.49	0	0	0	0	133	107	385	160
	├G	4A5-2ov	0.470	s	17.39	13.00	0	0	0	0	6	6	104	78
	├G	4A5-2ov	0.470	s	17.39	13.00	0	0	0	0	0	0	0	0
	└G	4A5-2ov	0.470	s	17.39	13.00	0	0	0	0	20	20	348	260
	W	12B-0bw	0.097	w	3.59	1.49	0	0	0	0	0	0	0	0
	├G	4A5-2ov	0.470	w	17.39	31.20	0	0	0	0	0	0	0	0
	├G	4A5-2ov	0.470	w	0.00	0.00	0	0	0	0	0	0	0	0
	└D	11P0	0.290	w	0.00	0.00	0	0	0	0	0	0	0	0
	C	16B-30ad	0.032	-	1.18	1.68	380	380	450	640	214	214	254	361
	F	22A-tpl	0.989	-	36.59	0.00	380	22	793	0	214	31	1134	0
6	c) AED excursion									16				-92
	Envelope loss/gain								3014	3151			2913	1532
12	a) Infiltration								685	151			785	173
	b) Room ventilation								0	0			0	0
13	Internal gains:	Occupants @ 230					0			0	2			460
		Appliances/other								0				0
	Subtotal (lines 6 to 13)								3699	3302			3697	2164
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								58	80			0	0
14	Subtotal								3758	3381			3697	2164
15	Duct loads						25%	45%	928	1526	25%	45%	913	977
	Total room load								4685	4907			4610	3141
	Air required (cfm)								202	272			199	174

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

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Right-J® Worksheet
AHU 2
Glenn I. Jones, Inc.

Job:
Date: Mar 14, 2018
By:

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1	Room name						mstr wic				hall1				
2	Exposed wall						10.3 ft				0 ft				
3	Room height						8.0 ft		heat/cool		10.0 ft		heat/cool		
4	Room dimensions						1.0	x 172.8 ft			13.3	x 4.0 ft			
5	Room area						172.8 ft²				53.3 ft²				
	Ty	Construction number	U-value (Btuh/ft²-°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)		
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	
6	W	12B-0bw	0.097	n	3.59	1.49	0	0	0	0	0	0	0	0	
.	└G	4A5-2ov	0.470	n	0.00	0.00	0	0	0	0	0	0	0	0	
.	W	12B-0bw	0.097	e	3.59	1.49	0	0	0	0	0	0	0	0	
.	├G	10D-v	0.490	e	0.00	0.00	0	0	0	0	0	0	0	0	
11	├G	4A5-2ov	0.470	e	0.00	0.00	0	0	0	0	0	0	0	0	
	├G	4A5-2ov	0.470	e	17.39	31.20	0	0	0	0	0	0	0	0	
	├G	4A5-2ov	0.470	e	17.39	31.66	0	0	0	0	0	0	0	0	
	└D	11P0	0.290	e	10.73	8.45	0	0	0	0	0	0	0	0	
	W	12B-0bw	0.097	s	3.59	1.49	83	83	297	123	0	0	0	0	
	├G	4A5-2ov	0.470	s	17.39	13.00	0	0	0	0	0	0	0	0	
	├G	4A5-2ov	0.470	s	17.39	13.00	0	0	0	0	0	0	0	0	
	└G	4A5-2ov	0.470	s	17.39	13.00	0	0	0	0	0	0	0	0	
	W	12B-0bw	0.097	w	3.59	1.49	0	0	0	0	0	0	0	0	
	├G	4A5-2ov	0.470	w	17.39	31.20	0	0	0	0	0	0	0	0	
	├G	4A5-2ov	0.470	w	0.00	0.00	0	0	0	0	0	0	0	0	
	└D	11P0	0.290	w	0.00	0.00	0	0	0	0	0	0	0	0	
	C	16B-30ad	0.032	-	1.18	1.68	173	173	205	291	53	53	63	90	
	F	22A-tpl	0.989	-	36.59	0.00	173	10	378	0	53	0	0	0	
6	c) AED excursion									-19				-4	
	Envelope loss/gain								879	395			63	86	
12	a) Infiltration								262	58			0	0	
	b) Room ventilation								0	0			0	0	
13	Internal gains:	Occupants @ 230					0			0	0			0	
		Appliances/other								0				0	
	Subtotal (lines 6 to 13)								1141	452			63	86	
	Less external load								0	0			0	0	
	Less transfer								0	0			0	0	
	Redistribution								6	8			-63	-86	
14	Subtotal								1147	461			0	0	
15	Duct loads						25%	45%	283	208	25%	45%	0	0	
	Total room load								1430	668			0	0	
	Air required (cfm)								62	37			0	0	

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

wrightsoft

Right-J® Worksheet
AHU 2
Glenn I. Jones, Inc.

Job:
Date: Mar 14, 2018
By:

552 NW Hilton Ave, Lake City, Fl 32055 Phone: 386-752-5389 Fax: 386-755-3401 Email: customercare@gijinc.com Web: www.GlennIJonesHomeServices.com License...

1	Room name						mech 2					office			
2	Exposed wall						0 ft					12.0 ft			
3	Room height						10.0 ft		heat/cool			9.0 ft		heat/cool	
4	Room dimensions						6.7	x 4.0 ft				21.0	x 12.0 ft		
5	Room area						26.7 ft²					252.0 ft²			
	Ty	Construction number	U-value (Btuh/ft²-°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)			Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool		Gross	N/P/S	Heat	Cool
6	W	12B-0bw	0.097	n	3.59	1.49	0	0	0	0		0	0	0	0
.	G	4A5-2ov	0.470	n	0.00	0.00	0	0	0	0		0	0	0	0
.	W	12B-0bw	0.097	e	3.59	1.49	0	0	0	0		0	0	0	0
.	G	10D-v	0.490	e	0.00	0.00	0	0	0	0		0	0	0	0
11	G	4A5-2ov	0.470	e	0.00	0.00	0	0	0	0		0	0	0	0
	G	4A5-2ov	0.470	e	17.39	31.20	0	0	0	0		0	0	0	0
	G	4A5-2ov	0.470	e	17.39	31.66	0	0	0	0		0	0	0	0
	D	11P0	0.290	e	10.73	8.45	0	0	0	0		0	0	0	0
	W	12B-0bw	0.097	s	3.59	1.49	0	0	0	0		108	93	334	138
	G	4A5-2ov	0.470	s	17.39	13.00	0	0	0	0		0	0	0	0
	G	4A5-2ov	0.470	s	17.39	13.00	0	0	0	0		15	15	261	195
	G	4A5-2ov	0.470	s	17.39	13.00	0	0	0	0		0	0	0	0
	W	12B-0bw	0.097	w	3.59	1.49	0	0	0	0		0	0	0	0
	G	4A5-2ov	0.470	w	17.39	31.20	0	0	0	0		0	0	0	0
	G	4A5-2ov	0.470	w	0.00	0.00	0	0	0	0		0	0	0	0
	D	11P0	0.290	w	0.00	0.00	0	0	0	0		0	0	0	0
	C	16B-30ad	0.032	-	1.18	1.68	27	27	32	45		252	252	298	425
	F	22A-tpl	0.989	-	36.59	0.00	27	0	0	0		252	12	439	0
6	c) AED excursion									-2					-34
	Envelope loss/gain								32	43				1332	724
12	a) Infiltration								0	0				342	75
	b) Room ventilation								0	0				0	0
13	Internal gains:	Occupants @ 230					0			0		0			0
		Appliances/other								0					0
	Subtotal (lines 6 to 13)								32	43				1674	799
	Less external load								0	0				0	0
	Less transfer								0	0				0	0
	Redistribution								-32	-43				10	13
14	Subtotal								0	0				1684	813
15	Duct loads						25%	45%	0	0		25%	45%	416	367
	Total room load								0	0				2099	1179
	Air required (cfm)								0	0				90	65

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

wrightsoft

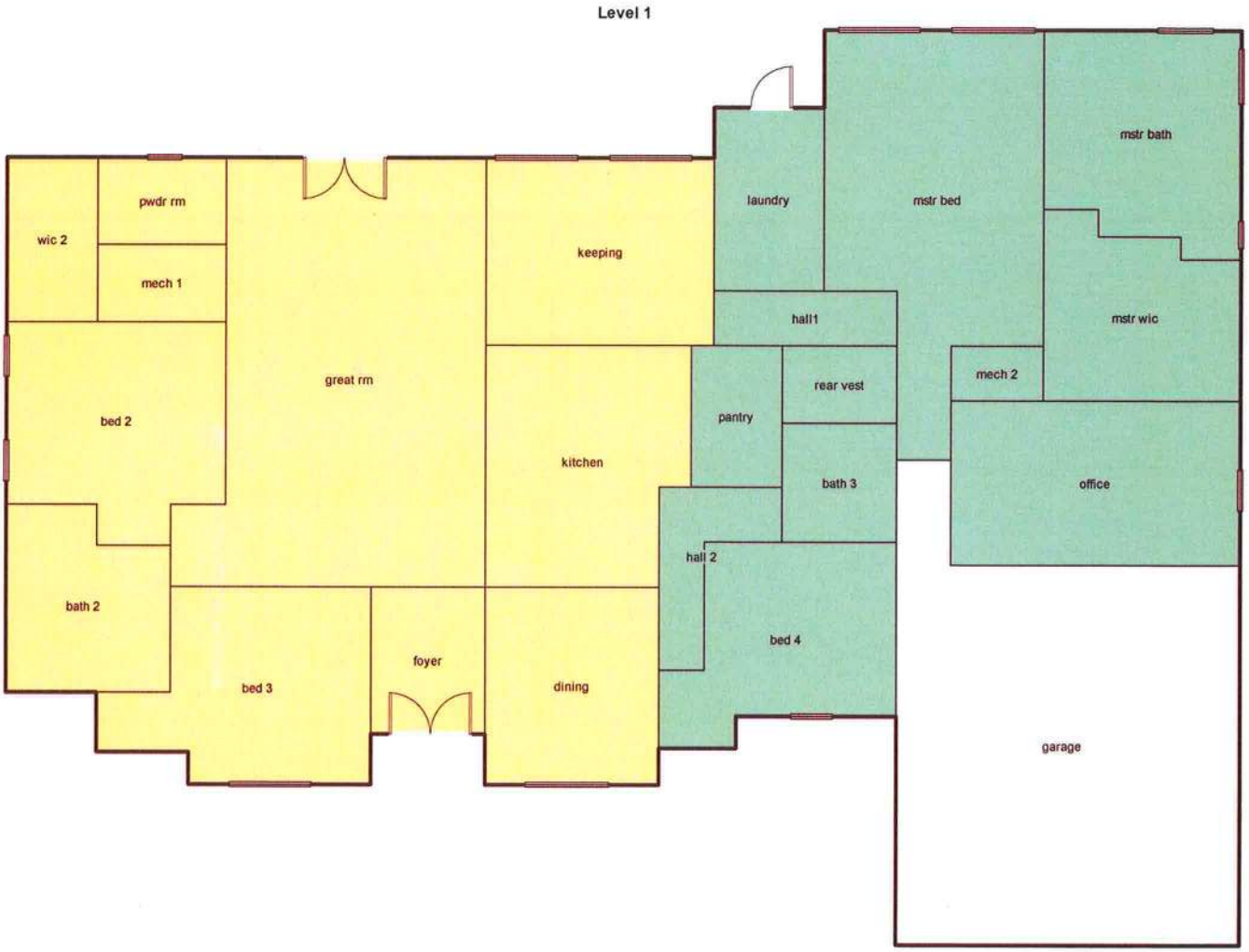
Right-J® Worksheet
AHU 2
Glenn I. Jones, Inc.

Job:
Date: Mar 14, 2018
By:

552 NW Hilton Ave, Lake City, Fl 32055 Phone: 386-752-5389 Fax: 386-755-3401 Email: customercare@gijinc.com Web: www.GlennIJonesHomeServices.com License...

1	Room name						hall 2							
2	Exposed wall						0 ft							
3	Room height						10.0 ft		heat/cool					
4	Room dimensions						1.0	x	67.1 ft					
5	Room area						67.1 ft²							
	Ty	Construction number	U-value (Btuh/ft²-°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area or perimeter		Load	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	12B-0bw	0.097	n	3.59	1.49	0	0	0	0				
.	└G	4A5-2ov	0.470	n	0.00	0.00	0	0	0	0				
.	W	12B-0bw	0.097	e	3.59	1.49	0	0	0	0				
.	├G	10D-v	0.490	e	0.00	0.00	0	0	0	0				
11	├G	4A5-2ov	0.470	e	0.00	0.00	0	0	0	0				
	├G	4A5-2ov	0.470	e	17.39	31.20	0	0	0	0				
	├G	4A5-2ov	0.470	e	17.39	31.66	0	0	0	0				
	└D	11P0	0.290	e	10.73	8.45	0	0	0	0				
	W	12B-0bw	0.097	s	3.59	1.49	0	0	0	0				
	├G	4A5-2ov	0.470	s	17.39	13.00	0	0	0	0				
	├G	4A5-2ov	0.470	s	17.39	13.00	0	0	0	0				
	└G	4A5-2ov	0.470	s	17.39	13.00	0	0	0	0				
	W	12B-0bw	0.097	w	3.59	1.49	0	0	0	0				
	├G	4A5-2ov	0.470	w	17.39	31.20	0	0	0	0				
	├G	4A5-2ov	0.470	w	0.00	0.00	0	0	0	0				
	└D	11P0	0.290	w	0.00	0.00	0	0	0	0				
	C	16B-30ad	0.032	-	1.18	1.68	67	67	79	113				
	F	22A-tpl	0.989	-	36.59	0.00	67	0	0	0				
6	c) AED excursion									-5				
	Envelope loss/gain								79	108				
12	a) Infiltration								0	0				
	b) Room ventilation								0	0				
13	Internal gains:	Occupants @ 230					0			0				
		Appliances/other								0				
	Subtotal (lines 6 to 13)								79	108				
	Less external load								0	0				
	Less transfer								0	0				
	Redistribution								-79	-108				
14	Subtotal								0	0				
15	Duct loads						25%	45%	0	0				
	Total room load								0	0				
	Air required (cfm)								0	0				

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



Job #: **Performed for:** Leonard Johnson 871 SW Tustenuggee Ave Lake City, FL 32024	**Glenn I. Jones, Inc.** 552 NW Hilton Ave Lake City, Fl 32055 Phone: 386-752-5389 Fax: 386-755-3401 www.GlennIJonesHomeServices.com customercare...	Scale: 1 : 157 Page 1 Right-Suite® Universal 2013 13.0.15 RSU01086 2018-Mar-16 08:38:29 ...nard residence\jones-johnson.rup

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

PERMIT NO. 28-1094
DATE PAID: 2/7/18
FEE PAID: 310.00
RECEIPT #: 1327446

APPLICATION FOR:
[X] New System [ ] Existing System [ ] Holding Tank [ ] Innovative
[ ] Repair [ ] Abandonment [ ] Temporary [ ] _____

APPLICANT: Randolf Jones (Linard Johnson)

AGENT: Robert Ford TELEPHONE: 386-755-6372

MAILING ADDRESS: 741 SE State Rd 100 Lake City Fla 32025

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: / BLOCK: / SUBDIVISION: 20-4S-17 PLATTED: _____

PROPERTY ID #: 08579-004 ZONING: SF I/M OR EQUIVALENT: [Y / (N)]

PROPERTY SIZE: 3.00 ACRES WATER SUPPLY: [X] PRIVATE PUBLIC [ ]<=2000GPD [ ]>2000GPD

IS SEWER AVAILABLE AS PER 381.0065, FS? [Y / (N)] DISTANCE TO SEWER: NA FT

PROPERTY ADDRESS: Tustunuggee Rd.

DIRECTIONS TO PROPERTY: Hwy 441 South TR on Tustunuggee 1½ miles on left to site

BUILDING INFORMATION [X] RESIDENTIAL [ ] COMMERCIAL

Unit No	Type of Establishment	No. of Bedrooms	Building Area Sqft	Commercial/Institutional System Design Table 1, Chapter 64E-6, FAC
1				
2	S/F Res.	4	3663	
3				
4				

[ ] Floor/Equipment Drains [ ] Other (Specify) _____

SIGNATURE: Robert W. Ford Jr DATE: 2-5-18

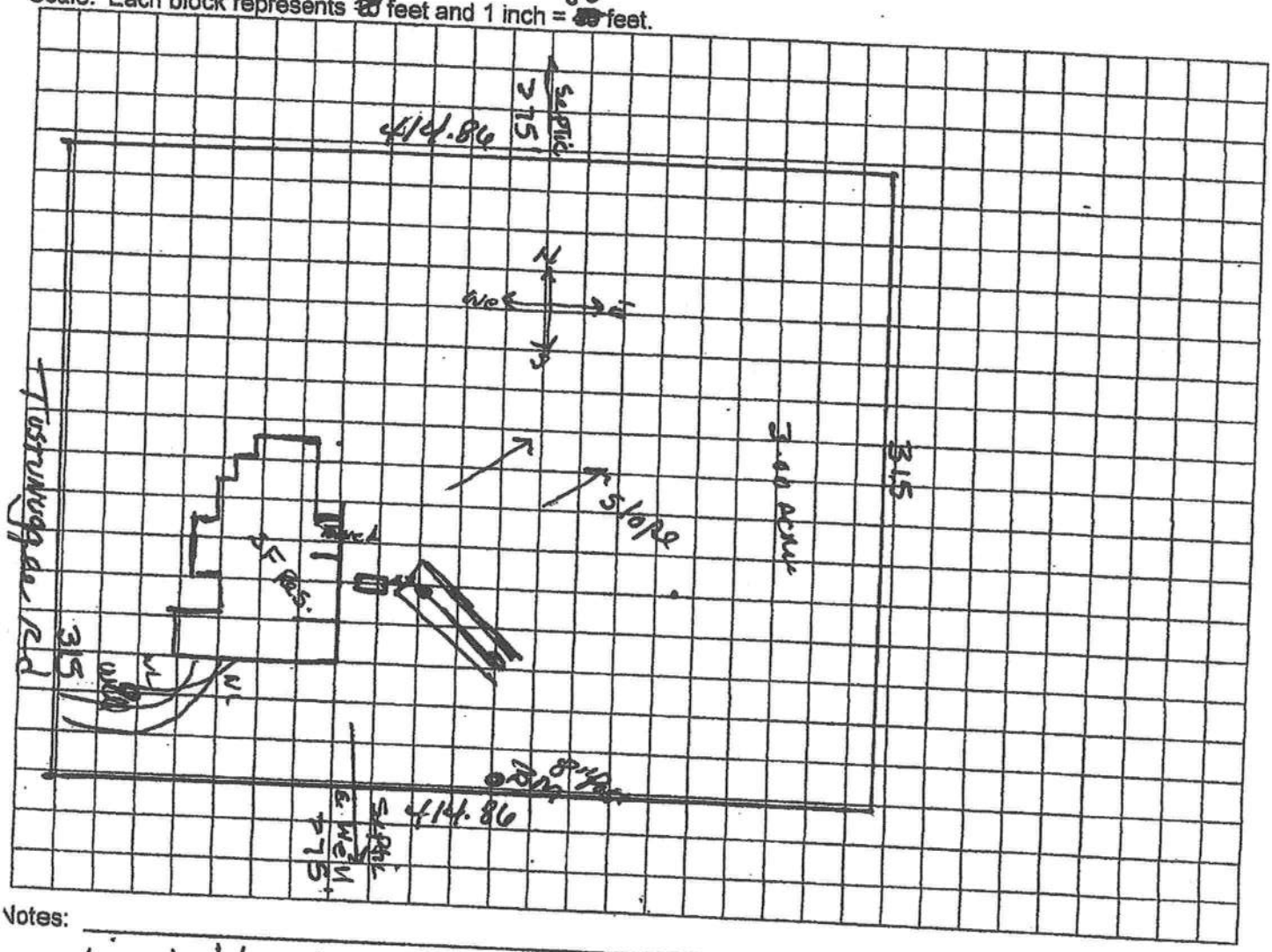
DH 4015, 08/09 (Obsoletes previous editions which may not be used)
Incorporated 64E-6.001, FAC

STATE OF FLORIDA
DEPARTMENT OF HEALTH
APPLICATION FOR CONSTRUCTION PERMIT

Permit Application Number 18-0594

---------- PART II - SITEPLAN ----------

Scale: Each block represents 20' feet and 1 inch = 80' feet.



Notes: Linard Johnson
3.00 Acres

Site Plan submitted by: Robert W Jordan 2-5-18

Plan Approved XO Not Approved ____ Date 2/20/18

By _____ Calhoun County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

JOHNSON RESIDENCE
STRUCTURAL PLANS
COLUMBIA COUNTY, FL

Plan Sheet Index:

Sheet No.	Description
1	title/index sheet
2	foundation plan
3	wall detail/strapping requirements
4	special details

COLUMBIA COUNTY BUILDING DEPARTMENT
REVIEWED FOR FIELD COPY
CODE COMPLIANCE
PLANS EXAMINER

See Highlights

Note: These plans are companion plans to the Johnson Residence plans prepared by Teena Ruffo and supercede those plans where applicable.

3-8-18

PLANS PREPARED BY:
MARTY J. HUMPHRIES P.E. # 51976
7932 240TH ST., O'BRIEN, FL 32071

JOHNSON RESIDENCE
STRUCTURAL PLANS
COLUMBIA COUNTY, FL

SHEET 1 OF 4

Interior Load Bearing Wall Locations (as required by truss package)

38'-11"
8'-0"
30'-11"
DETAIL B
DETAIL A
SLOPE PORCH FOR DRAINAGE
4'-0"
6'-0"
9 3/4"
3 1/2"
10'-7"
50'-1"
3" stepdown
3'-2"
3'-5"
12'-3 1/4"
DETAIL E
5'-0"
6'-4"
3'-10"
10'-11 3/4"
15'-0"
5'-4"
8'-4"
FIREPLACE FOUNDATION SHALL BE 12" DEEP WITH #5 REBAR MAT 8" O.C. EACH WAY. BEVEL 45 DEGREE TO NORMAL 4" SLAB DEPTH.
4" concrete slab with Welded Wire Mesh(WWM) 6x6(10 gage)(WWM placed on chairs 3' on center)on well compacted termite treated fill with 6 mil visqueen vapor barrier lapped 6" and sealed Note: fiber reinforced concrete may be used in place of WWM.
12'-5 1/4"
3'-5 3/4"
DETAIL D
6" stepdown +- (per owner)
8'-5 1/2"
39'-2"
65'-5 1/2"
37'-1"
2'-3 3/4"
11'-0 3/4"
35'-7 1/4"
10'-7 1/2"
4'-11 1/2"
7'-7 1/4"
6'-3 1/2"
8 1/4"
8'-0"
1'-6"
8'-3"
1 3/4"
9 3/4"
5'-11 3/4"
SLOPE PORCH FOR DRAINAGE
1'-6"
5'-0"
2'-0"
4'-6"
7'-0"
6'-0"
11'-0"
11'-0"
11'-0"
6'-0"
11'-1"
15'-10 1/2"
63'-1"
4'-0"
21'-7 1/2"
25'-7 1/2"
3 1/2"
SLOPE GARAGE FOR DRAINAGE
7'-1 1/2"
11'-0"
26'-3 1/2"
6'-6"
25'-11"

3 1/2" step-down
8"
8"
3 1/2" sunken area of slab for shower area thicken slab for 8" past depressed area

FOUNDATION PLAN

NOTE: DIMENSIONS ARE FROM OUTSIDE EDGE OF BLOCK/SLAB.

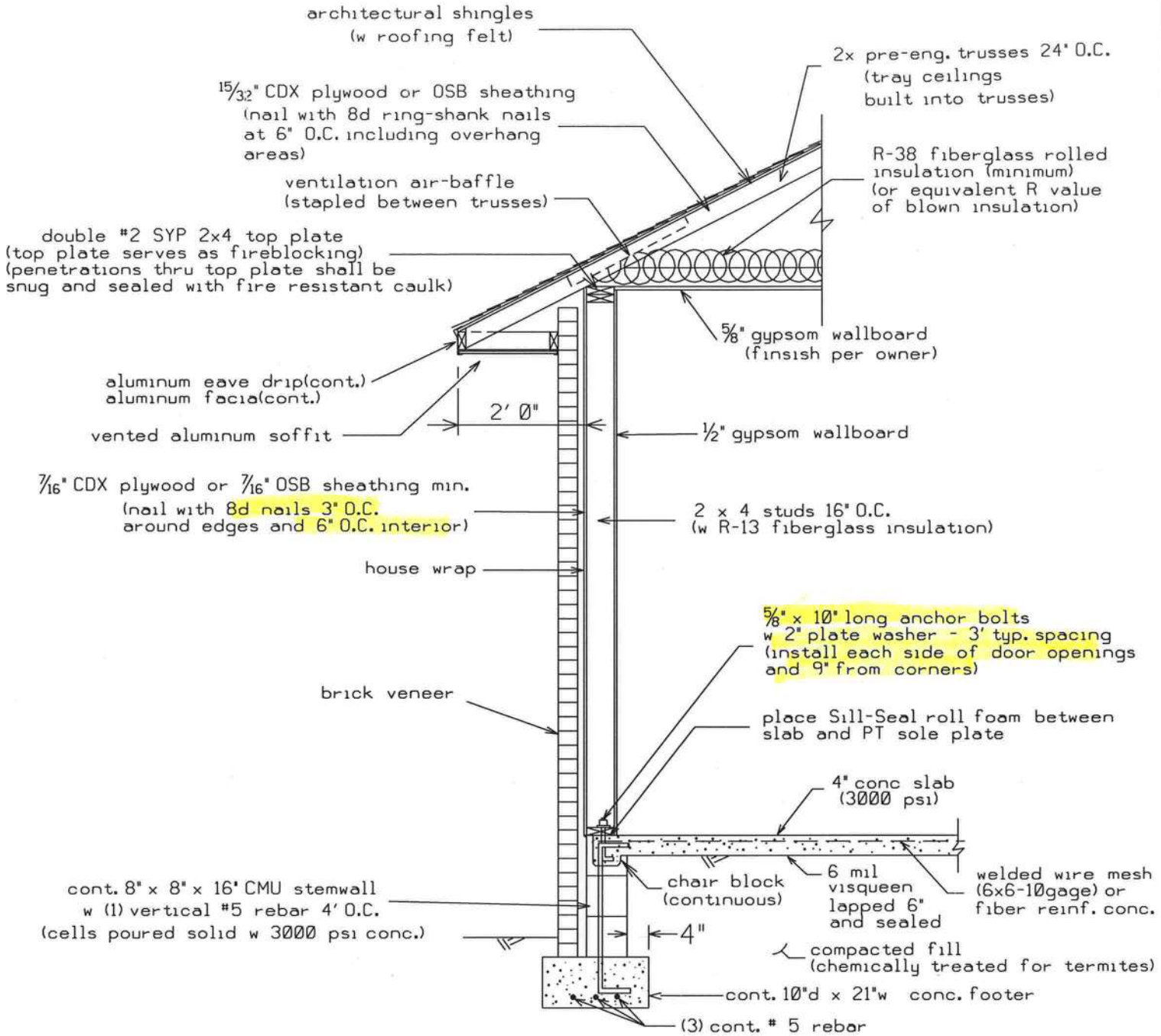
0 4' 8'
scale

3-8-18

PLANS PREPARED BY:
MARTY J. HUMPHRIES P.E. # 51976
7932 240TH ST., O'BRIEN, FL 32071

JOHNSON RESIDENCE
STRUCTURAL PLANS
COLUMBIA COUNTY, FL

SHEET 2 OF 4



DETAIL A - WALL TYPICAL(N.T.S.)

HEADER SIZES/MATERIAL SHALL BE AS FOLLOWS:

WINDOWS AND DOORS: 2 - #2 SYP 2X12's w 1/2" plywood or OSB beween nailed with 4 -12d nails 10" O.C.

GARAGE DOORS: 2 - #2 SYP 2X12's w 1/2" plywood or OSB beween nailed with 4 -12d nails 10" O.C.

INTERIOR LOAD BEARING WALLS: 2 - #2 SYP 2X12's w 1/2" plywood or OSB beween nailed with 4 -12d nails 10" O.C.

PORCHES: 2 - #2 SYP 2X10s w 1/2" plywood or OSB beween nailed with 4 -12d nails 10" O.C.

SYP = SOUTHERN YELLOW PINE

STRAPPING AND ANCHOR REQUIREMENTS

(Designed In accordance with the 2017 FBC):

WINDLOAD DATA AND EXPOSURE:

Basic Wind Speed = 130 mph Vult.
Importance Factor = 1.0
Exposure Category = B
Residential Occupancy = Group R3
Mean Roof Height = 18'
Height and Exposure Adjustment Coefficient = 1.0
Roof Cross Slope = 8:12
Wall Height = 9'
Risk Category = II
Component and Cladding Pressures = Roof(Zone 1=16.7,-18.0, Zone 2=16.7,-21.0, Zone 3=16.7,-21.0), Wall(Zone 4=18.2,-19.0, Zone 5=18.2,-24.0)(units are psf)

TRUSS ANCHORS/HANGERS:

At Truss to Exterior Wall, Porch Beam and interior load bearing wall Locations: install one Simpson model H10A anchor for all trusses. For Jack trusses under 10' in length install Simpson H2.5A clip. For double ply trusses install Simpson H10A-2 and one H2.5A clip. For hip trusses install Simpson HCP clip and one H3 clip. Install HTU26 hanger for truss to girder truss connection.

EXTERIOR WALL STRAPPING:

At top and bottom of exterior walls install one Simpson model SP4 at each side of each door and window 4' or less in width. At top and bottom of wall for windows and doors larger than 4' in width install two Simpson model SP4's each side of opening. At top and bottom of the wall on each side of the garage door openings install 2-Simpson SPH4's each side of opening. All other wall locations install one SP4 top and bottom of the wall 4' on center.

INTERIOR LOAD BEARING WALL STRAPPING:

Strap top and bottom of interior load bearing wall with Simpson SP4's 32" on center and each side of openings for openings 3' or less in width, for larger openings install two SP4's each side. Install 5/8" x 10" anchor bolts 3' on center and each side of door openings.

SHEATHING:

Wall sheathing shall be installed with long dimension vertical on exterior walls and full-depth blocking shall be required at horizontal joints in sheathing.

REAR PORCH COLUMN:

Install Simpson ABU44 and Simpson AC4EMax.

PORCH CEILINGS:

Install 1x4 SPF lathes 16" on center nailed to trusses with 2-8d nails or install 7/16" OSB sheathing nailed with 8d nails 6" on center and cover with solid aluminum or vinyl soffit material.

PORCH HEADER TO HOME CONNECTION:

Install Simpson model HUC410 hanger connecting porch header to wall of home.

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Equivalent capacity anchors may be substituted, installed in accordance with the manufacturers requirements.

PLANS PREPARED BY:
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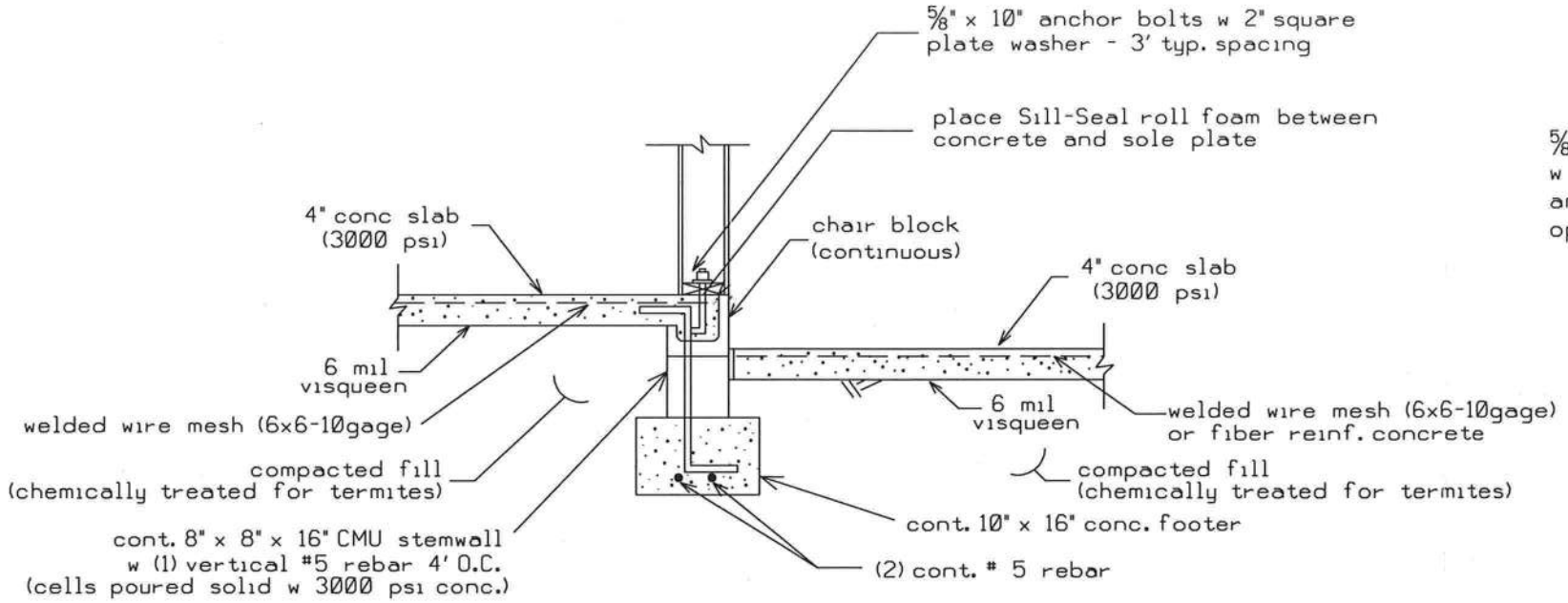
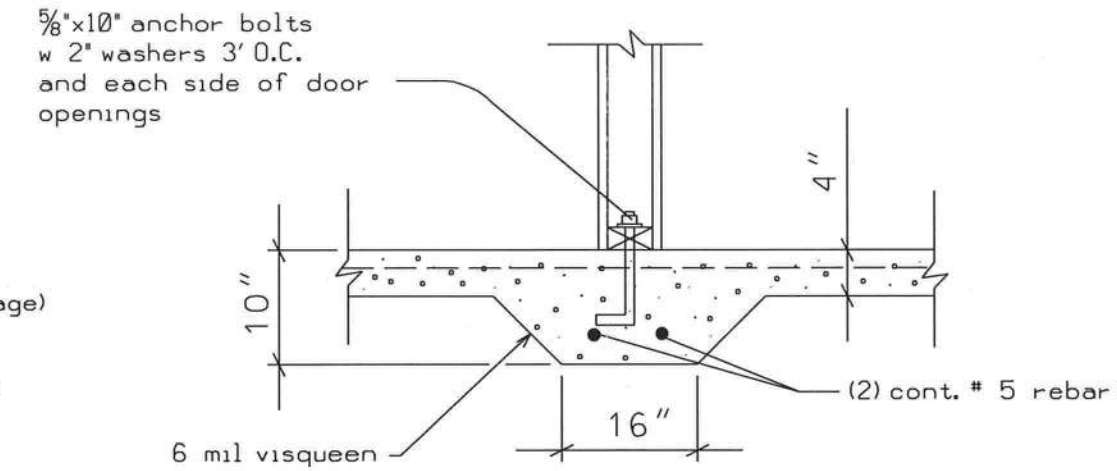
7932 240TH ST., O'BRIEN, FL 32071

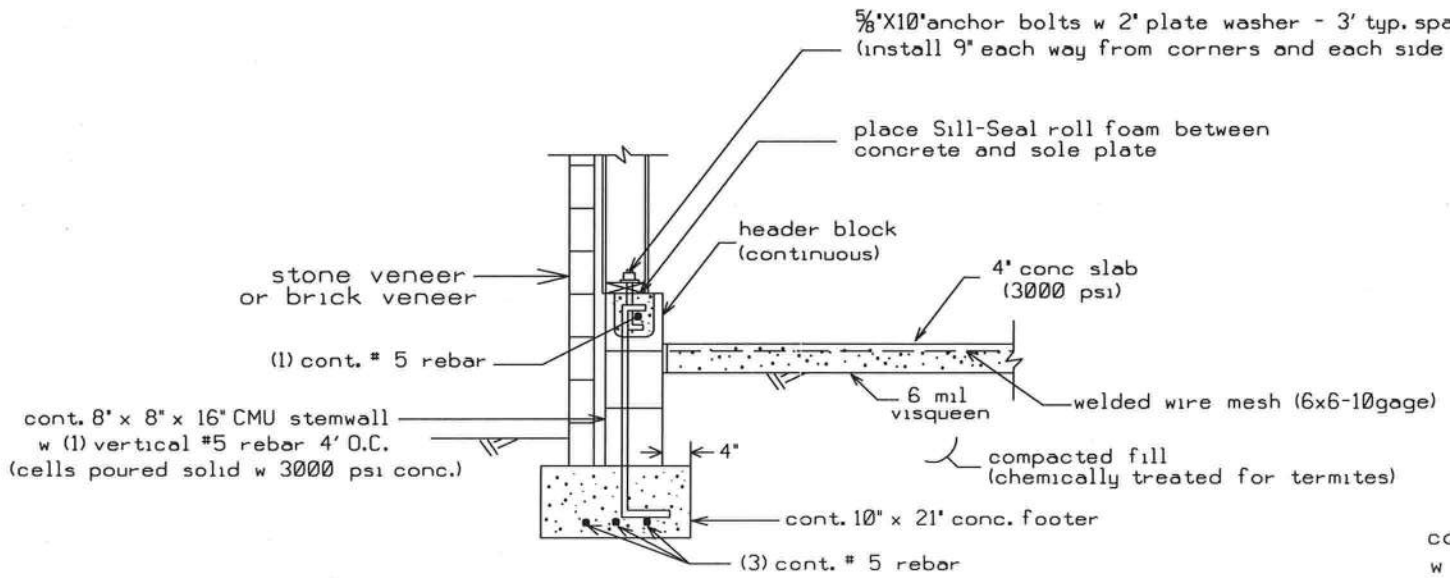
JOHNSON RESIDENCE
STRUCTURAL PLANS
COLUMBIA COUNTY, FL



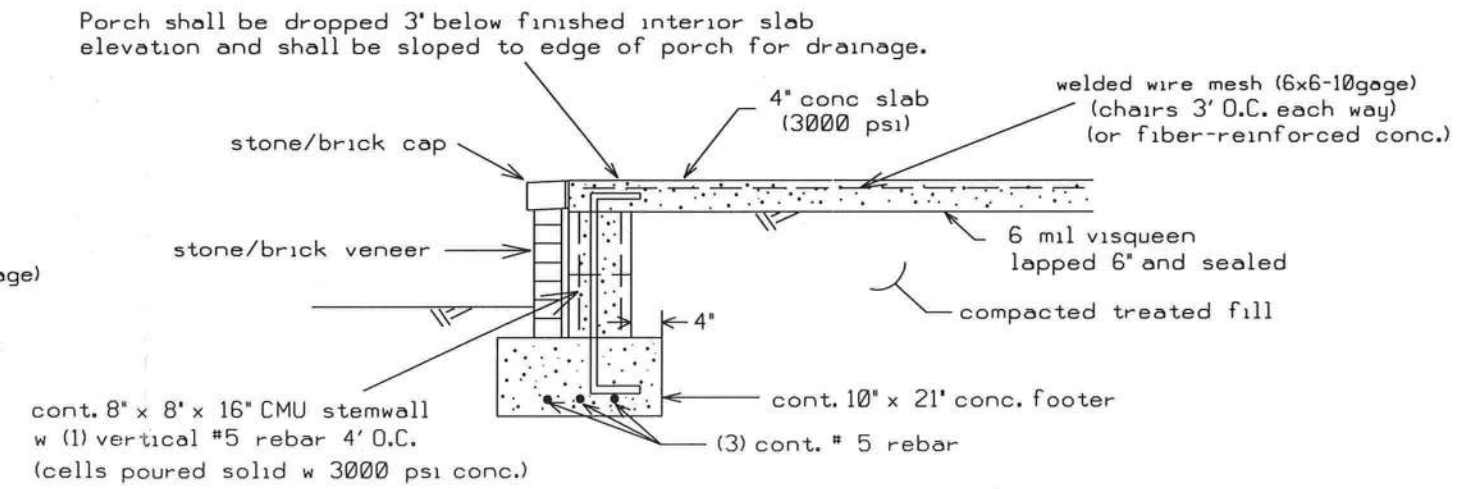
DETAIL "D"
INTERIOR GARAGE STEMWALL WITH FLOATING SLAB(N.T.S.)



DETAIL E - INTERRIOR MONOLITHIC FOOTER (N.T.S.)
(located as required by Truss Package)



DETAIL "C" - (AT STONE/BRICK VENEER LOCATIONS)
GARAGE STEMWALL WITH FLOATING SLAB(N.T.S.)



DETAIL "B" - PORCH FOUNDATION DETAIL (N.T.S.)

3-8-18

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SHEET
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