

DATE 02/27/2013

**Columbia County Building Permit**  
This Permit Must Be Prominently Posted on Premises During Construction**PERMIT**  
**000030809**

APPLICANT KEVIN L. BEDENBAUGH, JR. PHONE 386.365.5264  
ADDRESS 232 NW CHADLEY LN LAKE CITY FL 32055  
OWNER ARTHUR MCQUILLAN PHONE 386.965.4300  
ADDRESS 280 NW ZACK DRIVE LAKE CITY FL 32055  
CONTRACTOR KEVIN L. BEDENBAUGH, JR. PHONE 386.365.5264  
LOCATION OF PROPERTY 90-W TO BROWN, TR TO EMERALD LAKES, TL TO ZACK, TR AND ITS @  
CORNER OF ZACK & KELLY LAKE COURT.  
TYPE DEVELOPMENT SFD/UTILITY ESTIMATED COST OF CONSTRUCTION 132000.00  
HEATED FLOOR AREA 1909.00 TOTAL AREA 2640.00 HEIGHT 22.00 STORIES 1  
FOUNDATION CONC WALLS FRAMED ROOF PITCH 6'12 FLOOR CONC  
LAND USE & ZONING RSF-2 MAX. HEIGHT 35  
Minimum Set Back Requirments: STREET-FRONT 25.00 REAR 15.00 SIDE 10.00  
NO. EX.D.U. 0 FLOOD ZONE X DEVELOPMENT PERMIT NO. \_\_\_\_\_

PARCEL ID 28-3S-16-02372-454 SUBDIVISION EMERALD LAKES  
LOT 154 BLOCK \_\_\_\_\_ PHASE 4 UNIT \_\_\_\_\_ TOTAL ACRES 0.50

000001993 \_\_\_\_\_ CGC1516042 ✓ Kepe  
Culvert Permit No. \_\_\_\_\_ Culvert Waiver \_\_\_\_\_ Contractor's License Number \_\_\_\_\_ Applicant/Owner/Contractor \_\_\_\_\_  
PWD 13-0079 BLK TC N  
Driveway Connection \_\_\_\_\_ Septic Tank Number \_\_\_\_\_ LU & Zoning checked by \_\_\_\_\_ Approved for Issuance \_\_\_\_\_ New Resident \_\_\_\_\_

COMMENTS: ELEVATION DETERMINATION LETTER. 1' ABOVE EXISTING GRADE. SILT FENCE TO  
BE PLACED ON SOUTH PROPERTY LINE. NOC ON FILE.

Check # or Cash 5380**FOR BUILDING & ZONING DEPARTMENT ONLY**

(footer/Slab)

Temporary Power \_\_\_\_\_ Foundation \_\_\_\_\_ Monolithic \_\_\_\_\_  
date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_  
Under slab rough-in plumbing \_\_\_\_\_ Slab \_\_\_\_\_ Sheathing/Nailing \_\_\_\_\_  
date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_  
Framing \_\_\_\_\_ Insulation \_\_\_\_\_  
date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_  
Rough-in plumbing above slab and below wood floor \_\_\_\_\_ Electrical rough-in \_\_\_\_\_  
date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_  
Heat & Air Duct \_\_\_\_\_ Peri. beam (Lintel) \_\_\_\_\_ Pool \_\_\_\_\_  
date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_  
Permanent power \_\_\_\_\_ C.O. Final \_\_\_\_\_ Culvert \_\_\_\_\_  
date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_  
Pump pole \_\_\_\_\_ Utility Pole \_\_\_\_\_ M/H tie downs, blocking, electricity and plumbing \_\_\_\_\_  
date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_  
Reconnection \_\_\_\_\_ RV \_\_\_\_\_ Re-roof \_\_\_\_\_  
date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_

BUILDING PERMIT FEE \$ 660.00 CERTIFICATION FEE \$ 13.20 SURCHARGE FEE \$ 13.20  
MISC. FEES \$ 0.00 ZONING CERT. FEE \$ 50.00 FIRE FEE \$ 0.00 WASTE FEE \$ \_\_\_\_\_  
FLOOD DEVELOPMENT FEE \$ \_\_\_\_\_ FLOOD ZONE FEE \$ 25.00 CULVERT FEE \$ 25.00 **TOTAL FEE** 786.40  
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.**



## Notice of Treatment

Applicator: Florida Pest Control & Chemical Co. (www.flapest.com)

Address: 536 N. SE Baya Dr.

City: Jake City Phone: 752-1703

Site Location: Subdivision \_\_\_\_\_

Lot # \_\_\_\_\_ Block # \_\_\_\_\_ Permit # 30809

Address: 280 NW Jack Dr.

Product used Active Ingredient % Concentration

☒ Premise Imidacloprid 0.1%

☐ Termitor Fipronil 0.12%

☐ \_\_\_\_\_

Type treatment: ☒ Soil

Area Treated	Square feet	Linear feet	Gallons Applied
<u>Worm Burdy</u>	<u>2640</u>	<u>212</u>	<u>209</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

As per Florida Building Code 104.2.6 - If soil chemical barrier method for termite prevention is used, final exterior treatment shall be completed prior to final building approval.

If this notice is for the final exterior treatment, initial this line \_\_\_\_\_.

3-19-13 1-15 B. HENDERICKS  
Date Time Print Technician's Name

Remarks: \_\_\_\_\_

Applicator - White Permit File - Canary Permit Holder - Pink



## Columbia County Building Permit Application

C# 5380

For Office Use Only Application # 1302-26 Date Received 2/20/13 By LH Permit # 1993/30809  
Zoning Official BLK Date 26 FEB 2013 Flood Zone X Land Use RES. Low Density Zoning RSF-2  
FEMA Map # N/A Elevation N/A MFE A River N/A Plans Examiner T.C. Date 2-25-13  
Comments Elevation Determination Letter - 1' above existing grade S. 1st Fence to be placed South  
☒ 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  
IMPACT FEES: EMS \_\_\_\_\_ Fire \_\_\_\_\_ Corr \_\_\_\_\_ Sub VF Form 1057 - w/c  
Road/Code \_\_\_\_\_ School \_\_\_\_\_ = TOTAL (Suspended) ☒ Ellisville Water ☒ App Fee Paid 663 - Exempt

Septic Permit No. 13-0079

Fax \_\_\_\_\_

Name Authorized Person Signing Permit KEVIN BEDENBAUGHPhone 386-365-5264Address 232 NW CHADLEY LN LAKE CITY, FL 32055Owners Name ARTHUR McQUILLANPhone 386-965-4300(1) 911 Address 240 NW HARWELL LAKE CITY, FL 32055Contractors Name PLUMB LEVEL CONSTRUCTION CO. LLCPhone 386-365-5264Address 232 NW CHADLEY LN LAKE CITY, FL 32055

Fee Simple Owner Name &amp; Address \_\_\_\_\_

Bonding Co. Name &amp; Address \_\_\_\_\_

Architect/Engineer Name & Address NICHOLAS GEISLER 1758 NW BROWN Rd Lake City, 32055

Mortgage Lenders Name &amp; Address \_\_\_\_\_

Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progress EnergyProperty ID Number 28-35-16-02372-454Estimated Cost of Construction 150,000Subdivision Name EMERALD LAKESLot 154 Block \_\_\_\_\_ Unit \_\_\_\_\_ Phase 4Driving Directions 90 W TURN (R) ON BROWN, 4th Rd ON (L) EMERALD LAKES, 1st (R) ZACK R. ON CORNER OF ZACK & KELLY LAKENumber of Existing Dwellings on Property 0Construction of SINGLE FAMILYTotal Acreage .5 Lot Size \_\_\_\_\_Do you need a Culvert Permit or Culvert Waiver or Have an Existing DriveTotal Building Height 22'Actual Distance of Structure from Property Lines - Front 25 Side 27 Side 20 Rear 132Number of Stories 1 Heated Floor Area 1909 Total Floor Area 2640 Roof Pitch 9/12

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. **CODE:** Florida Building Code 2010 and the 2008 National Electrical Code.

Spoke to Kevin Jr 3-26-13  
Responed by Kevin Jr. 2-27-13 - complete



**Columbia County Building Permit Application**

**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 such application has been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated.

**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 BUILDING PERMITEE:** **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.



(Owners Must Sign All Applications Before Permit Issuance.)

Owners Signature

**\*\*OWNER BUILDERS MUST PERSONALLY APPEAR AND SIGN THE BUILDING PERMIT.**

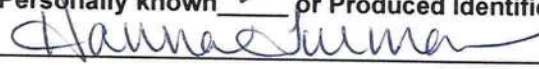
**CONTRACTORS AFFIDAVIT:** By my signature I understand and agree that I have informed and provided this written statement to the owner of all the above written responsibilities in Columbia County for obtaining this Building Permit including all application and permit time limitations.

  
Contractor's Signature (Permitee)

Contractor's License Number CGC1516042  
Columbia County  
Competency Card Number 377 d/c

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 20 day of February 2013.

Personally known ☒ or Produced Identification ☐

  
State of Florida Notary Signature (For the Contractor)

SEAL:





30809

## SUBCONTRACTOR VERIFICATION FORM

APPLICATION NUMBER 1302-26 CONTRACTOR Kevin Bedenbaugh PHONE 365-5264  
 THIS FORM MUST BE SUBMITTED PRIOR TO THE ISSUANCE OF A PERMIT

In Columbia County 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 permit. Per Florida Statute 440 and Ordinance 89-6, a contractor shall require all subcontractors to provide evidence of workers' compensation or exemption, general liability insurance and a valid Certificate of Competency license in Columbia County.

**Any changes, the permitted contractor is responsible for the corrected form being submitted to this office prior to the start of that subcontractor beginning any work. Violations will result in stop work orders and/or fines.**

<b>ELECTRICAL</b>	Print Name <u>Marcus Matthews</u> License #: <u>ER-0014352</u>	Signature <u>[Signature]</u> Phone #: <u>386-344-2029</u>
<b>MECHANICAL/ A/C</b>	Print Name _____ License #: _____	Signature _____ Phone #: _____
<b>PLUMBING/ GAS</b>	Print Name _____ License #: _____	Signature _____ Phone #: _____
<b>ROOFING</b>	Print Name _____ License #: _____	Signature _____ Phone #: _____
<b>SHEET METAL</b>	Print Name _____ License #: _____	Signature _____ Phone #: _____
<b>FIRE SYSTEM/ SPRINKLER</b>	Print Name _____ License #: _____	Signature _____ Phone #: _____
<b>SOLAR</b>	Print Name _____ License #: _____	Signature _____ Phone #: _____

Specialty License	License Number	Sub-Contractors Printed Name	Sub-Contractors Signature
MASON			
CONCRETE FINISHER			
FRAMING			
INSULATION			
STUCCO			
DRYWALL			
PLASTER			
CABINET INSTALLER			
PAINTING			
ACOUSTICAL CEILING			
GLASS			
CERAMIC TILE			
FLOOR COVERING			
ALUM/VINYL SIDING			
GARAGE DOOR			
METAL BLDG ERECTOR			

**F. S. 440.103 Building permits; identification of minimum premium policy.**--Every employer shall, as a condition to applying for and receiving a building permit, show proof and certify to the permit issuer that it has secured compensation for its employees under this chapter as provided in ss. 440.10 and 440.38, and shall be presented each time the employer applies for a building permit.



13-092 American Title

Permit Number: \_\_\_\_\_  
Tax Folio Number: 02372-454 & 02372-455

State of: **Florida**  
County of: **Columbia**

File Number: 13-092

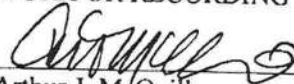
13-09212002308 Date: 2/14/2013 Time: 9:36 AM  
DC, P. DeWitt Cason, Columbia County Page 1 of 1 B. 1249 P. 1495

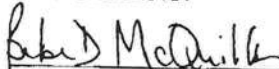
### NOTICE OF COMMENCEMENT

The undersigned hereby gives notice that improvement will be made to certain real property, and, in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.

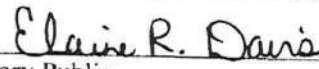
1. Description of Property:  
**LOTS 154 and 155 of EMERALD LAKES PHASE 4**, according to the Plat thereof, as recorded in Plat Book 6, at Pages 151 through 152, of the Public Records of COLUMBIA COUNTY, FLORIDA.
2. General Description of Improvements: **RESIDENTIAL**
3. Owner Information: **ARTHUR J. and BEBE D. MCQUILLAN**
  - a. Name and Address: 240 NW Harwell Court, Lake City, Florida 32055
  - b. Interest in property: Fee Simple
  - c. Names and address of fee simple title holder (if other than owner):
4. Contractor: **PLUMB LEVEL CONSTRUCTION**  
232 NW Chadley Lane, Lake City, Florida 32055
5. Surety: N / A
6. Lender: **PEOPLES STATE BANK**, 350 SW Main Blvd., Lake City, Florida 32025
7. Persons 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.
8. In addition to himself, Owner designates the following persons to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes.
9. Expiration date of Notice of Commencement (the expiration date is 1 year from date of recording unless a different date is specified): **FEBRUARY 12, 2014.**

**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 WITH YOUR LENDER OR ANY ATTORNEY BEFORE CONSTRUCTION WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.**

  
Arthur J. McQuillan

  
Bebe D. McQuillan

Sworn to and subscribed before me February 12, 2013 by who is personally known to me or who did provide Known as identification.

  
Notary Public





**SUBCONTRACTOR VERIFICATION FORM**

APPLICATION NUMBER 1302-26 CONTRACTOR PLUMB LEVEL PHONE 386-365-5264

**THIS FORM MUST BE SUBMITTED PRIOR TO THE ISSUANCE OF A PERMIT**

In Columbia County 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 permit. Per Florida Statute 440 and Ordinance 89-6, a contractor shall require all subcontractors to provide evidence of workers' compensation or exemption, general liability insurance and a valid Certificate of Competency license in Columbia County.

**Any changes, the permitted contractor is responsible for the corrected form being submitted to this office prior to the start of that subcontractor beginning any work. Violations will result in stop work orders and/or fines.**

<b>ELECTRICAL</b> 1057	Print Name <u>Ryan Felkner</u> License #: <u>EC13003153</u>	Signature <u>Ryan Felkner</u> Phone #: <u>208-3244</u>	<u>W/C &amp; Lieb</u>
<b>MECHANICAL/A/C</b> B 13	Print Name <u>Darrick Williams</u> License #: <u>CAC1816913</u>	Signature <u>[Signature]</u> Phone #: <u>754-1987</u>	
<b>PLUMBING/GAS</b>	Print Name <u>Joe Davis</u> License #: <u>CFC057304</u>	Signature <u>[Signature]</u> Phone #: <u>623-3487</u>	
<b>ROOFING</b> 1056	Print Name <u>KEVIN BEDENBAUGH / PLUMB LEVEL</u> License #: <u>CCC1329482</u>	Signature <u>[Signature]</u> Phone #: <u>386-365-5264</u>	
<b>SHEET METAL</b>	Print Name _____ License #: _____	Signature _____ Phone #: _____	
<b>FIRE SYSTEM/SPRINKLER</b>	Print Name _____ License #: _____	Signature _____ Phone #: _____	
<b>SOLAR</b>	Print Name _____ License #: _____	Signature _____ Phone #: _____	

Specialty License	License Number	Sub-Contractors Printed Name	Sub-Contractors Signature
MASON	000097	Kenny Louder Massey	Kenny Louder
CONCRETE FINISHER	000063	Darrell Spradley	Darrell Spradley
FRAMING 377	CGC1516042	KEVIN BEDENBAUGH	[Signature]
INSULATION 377	CGC1516042	Kevin Bedenbaugh	[Signature]
STUCCO	N/A		
DRYWALL	001177	Joseph Ambros	Joe Ambros
PLASTER	N/A		
CABINET INSTALLER 377	CGC1516042	Kevin Bedenbaugh	[Signature]
PAINTING	000632	John Bispham	John Bispham
ACOUSTICAL CEILING	N/A		
GLASS	600618	Carl Bullard	Carl Bullard
CERAMIC TILE	000876	RYAN HARDIN	[Signature]
FLOOR COVERING	000546	RYAN HARDIN	[Signature]
ALUM/VINYL SIDING 377	CGC1516042	Kevin Bedenbaugh	[Signature]
GARAGE DOOR	600619	CARL BULLARD	Carl Bullard
METAL BLDG ERECTOR	N/A		

**F. S. 440.103 Building permits; identification of minimum premium policy.**--Every employer shall, as a condition to applying for and receiving a building permit, show proof and certify to the permit issuer that it has secured compensation for its employees under this chapter as provided in ss. 440.10 and 440.38, and shall be presented each time the employer applies for a building permit.





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

CR # 10-5482

PERMIT NO. 13-0099  
DATE PAID: 2/13/13  
FEE PAID: 31000  
RECEIPT #: 1097297

## APPLICATION FOR:

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

APPLICANT: ARTHUR & BEBE MCQUILLANAGENT: ARTHUR MCQUILLANTELEPHONE: (386) 965-4300MAILING ADDRESS: 240 NW HARWELLLAKE CITYFL 32055

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: 154 BLOCK: N/A SUBDIVISION: EMERALD LAKES PH 4 PLATTED: \_\_\_\_\_PROPERTY ID #: 28-3S-16-02372-454 ZONING: RES I/M OR EQUIVALENT: ☐ NO ☐PROPERTY SIZE: 0.500 ACRES WATER SUPPLY: ☒ PRIVATE PUBLIC ☐ ≤2000GPD ☐ >2000GPDIS SEWER AVAILABLE AS PER 381.0065, FS? ☐ NO ☐ DISTANCE TO SEWER: N/A FTPROPERTY ADDRESS: ZACK DRIVEDIRECTIONS TO PROPERTY: 90 WEST TURN RIGHT ON BROWN RD. TURN LEFT ON EMERALD, TURN RIGHT ON ZACK, 8TH ON LEFT.BUILDING INFORMATION ☒ RESIDENTIAL ☐ COMMERCIAL

Unit No.	Type of Establishment	No. of Bedrooms	Building Area Sqft	Commercial/Institutional System Design Table 1, Chapter 64E-6, FAC
1	HOUSE	3	2128	
2				
3				
4				

☐ Floor/Equipment Drains ☐ Other (Specify) \_\_\_\_\_SIGNATURE: [Signature]DATE: 2-13-13



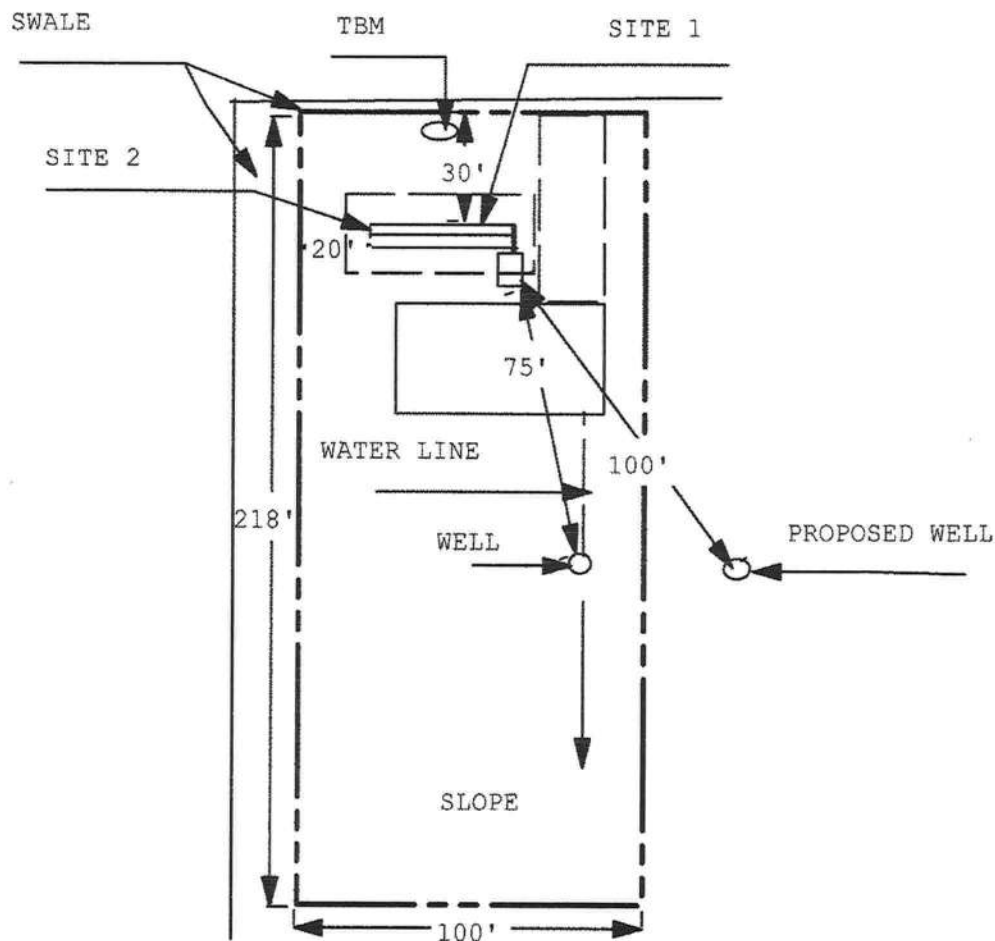
# Application for Onsite Sewage Disposal System Construction Permit. Part II Site Plan

Permit Application Number: 13-0079

**ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT**

CRF# 10-5482

LOT 154 EMERALD LAKES PH 4



OCCUPIED >75' TO WELL

1 inch = 50 feet

Site Plan Submitted By Paul K. Kays Date 7/20/12  
Plan Approved X Not Approved        Date 2/20/12

By [Signature] Columbia CPHU

Notes: [Signature]





January 18, 2013

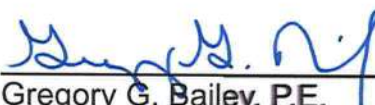
## FLOOR ELEVATION LETTER

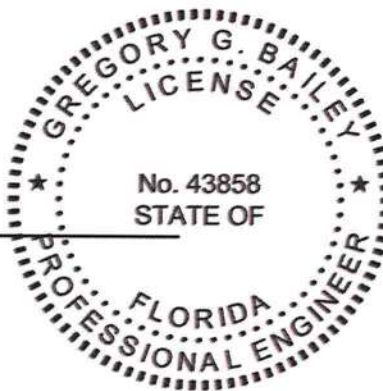
PROPERTY DESCRIPTION: ***Lot 154, Emerald Lakes, Phase 4***

OWNER: ***Arthur McQuillan***

PARCEL ID NUMBER: ***28-3S-16-02372-454***

PROJECT REQUIREMENTS: This lot is a sloping lot. The direction of the slope is downhill to the south. The residence shall be constructed a minimum of one (1) foot above the highest adjacent grade at the proposed location. The north side of the residence shall be graded to direct runoff to the east and west around the residence. No garage door openings shall be located on the north side.

  
Gregory G. Bailey, P.E.  
Date: January 18, 2013  
P.E. No. 43858





**A&B Well Drilling, Inc.**

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

January 11, 2013

To: Columbia County Building Department

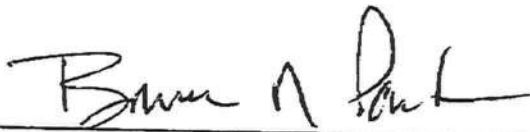
Description of Well to be installed for Customer

ARTHUR McQuillan (Plumb Level Const)

Located @ Address:

154 EMERALD LAKE PH 4 LAKE CITY FL 32055

1 HP 15 GPM submersible pump, 1 1/2" drop pipe, 86 gallon captive tank, and backflow prevention.  
With SRWMD permit.



Sincerely,  
Bruce N. Park  
President

**Columbia County Building Department  
Culvert Permit**

30809  
JHN: Connie

**Culvert Permit No.**  
000001993

DATE 02/27/2013 PARCEL ID # 28-3S-16-02372-454  
APPLICANT KEVIN L. BEDENBAUGH, JR. PHONE 386.365.5264  
ADDRESS 232 NW CHADLEY LN LAKE CITY FL 32055  
OWNER ARTHUR MCQUILLAN PHONE 386.965.4300  
ADDRESS 280 NW ZACK DRIVE LAKE CITY FL 32055  
CONTRACTOR KEVIN L. BEDENBAUGH, JR. PHONE 386.365.5264  
LOCATION OF PROPERTY 90-W TO BROWN, TR TO EMERALD LAKES, TL TO ZACK, TR AND IT'S @  
CORNER OF ZACK & KELLY LAKE COURT.  
SUBDIVISION/LOT/BLOCK/PHASE/UNIT EMERALD LAKES 154 4

**INSTALLATION INFORMATION**

SIGNATURE

*[Signature]*

- (A) A culvert shall be required to be installed as part of any newly constructed private driveway or road, or public road, which connects to a county road in Columbia County. Culvert installation for residential use shall require a permit issued by the Building and Zoning Department. Prior to any culvert permit being issued, an inspection by the Public Works Department shall be required to determine the proper size, length, and location for installation. Culvert installation for commercial, industrial, and other uses shall conform to the approved site plan or to the specifications of a registered engineer. Joint use culverts will comply with Florida Department of Transportation specifications.
- (B) The culvert shall comply and be installed in accordance with Columbia County Land Development Regulation, Access Control: Section 4.2.3 standards. Proper installation of the culvert shall be verified by a final inspection performed by the Public Works Department.
- (C) All culverts required by this policy shall be installed prior to the Building Department granting permission to connect permanent electrical service to the facility or facilities being serviced by newly constructed private driveway or road. In cases where no electrical service exists, installation shall be completed prior to final inspection approval.
- (D) Mitered-end culverts shall be used in the following applications:  
(1) When the culvert is to be placed giving access to a paved street.; (2) When the road is contained within a subdivision (recorded or unrecorded) that has not reached a "build out" of fifty percent (50%) or more.; (3) In all new subdivisions for residential use. New subdivisions shall be required as part of the final plat to specify culvert diameter and length.; (4) When the predominant use already established by the use of mitered-end culverts period.

☐

Culvert installation shall conform to the approved site plan standards.

☐

Department of Transportation Permit installation approved standards.

☒

Shall conform to Public Works Determinations as Stated Below:

18" diameter X 32' long with mitered ends poured with concrete.

P W Inspectors Name: *[Signature]*

Date: 3/6/13

Final Inspection Date:

6/20/13

P W Inspectors Name:

*[Signature]*

Signature:

*Corey McCray*

**CONTACT FOR REQUIREMENTS AND INSPECTIONS:**

**PUBLIC WORKS DEPARTMENT**

Phone: 386-758-1019

Amount Paid 25.00

Check No. 5380

**All Proper Safety Requirements Should Be Followed During The Installation Of The Culvert**





COLUMBIA COUNTY BUILDING DEPARTMENT  
RESIDENTIAL CHECK LIST

MINIMUM PLAN REQUIREMENTS: FLORIDA BUILDING CODE RESIDENTIAL 2010 EFFECTIVE 15 MARCH 2012 AND THE NATIONAL ELECTRICAL 2008 EFFECTIVE 1 OCTOBER 2009

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

**ALL BUILDING PLANS MUST INDICATE COMPLIANCE WITH THE CURRENT 2010 FLORIDA BUILDING CODES RESIDENTIAL, EFFECTIVE 15 MARCH 2012. NATIONAL ELECTRICAL CODE 2008 EFFECTIVE 1 OCTOBER 2009. ALL PLANS OR DRAWINGS SHALL PROVIDE CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION FOR ONE-AND-TWO FAMILY DWELLINGS.**

**FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEEDS ARE PER FLORIDA BUILDING CODE FIGURE 1609-A THROUGH 1609-C ULTIMATE DESIGN WIND SPEEDS FOR RISK CATEGORY AND BUILDINGS AND OTHER STRUCTURES**

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

Items to Include-  
Each Box shall be  
Circled as  
Applicable

			Yes	No	N/A
1	Two (2) complete sets of plans containing the following:				
2	All drawings must be clear, concise, drawn to scale, details that are not used shall be marked void				
3	Condition space (Sq. Ft.)	Total (Sq. Ft.) under roof			

Designers name and signature shall be on all documents and a licensed architect or engineer, signature and official embossed seal shall be affixed to the plans and documents as per the FLORIDA BUILDING CODES RESIDENTIAL R101.2.1

**Site Plan information including:**

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

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

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Items to Include- Each Box shall be Circled as Applicable		
8	Plans or specifications must show compliance with FBCR Chapter 3	IIIIII	IIII	IIIIII
		YES	NO	N/A
9	Basic wind speed (3-second gust), miles per hour	✓		
10	(Wind exposure – if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated)			✓
11	Wind importance factor and nature of occupancy			✓
12	The applicable internal pressure coefficient, Components and Cladding			✓
13	The design wind pressure in terms of psf (kN/m <sup>2</sup> ), to be used for the design of exterior component, cladding materials not specifically designed by the registered design professional.			✓

### **Elevations Drawing including:**

14	All side views of the structure	✓		
15	Roof pitch	✓		
16	Overhang dimensions and detail with attic ventilation	✓		
17	Location, size and height above roof of chimneys			✓
18	Location and size of skylights with Florida Product Approval			
18	Number of stories	✓		
20A	Building height from the established grade to the roofs highest peak	✓		

### **Floor Plan including:**

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

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



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

Items to Include-  
Each Box shall be  
Circled as  
Applicable

**FBCR 403: Foundation Plans**

		YES	NO	N/A
29	Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.	✓		
30	All posts and/or column footing including size and reinforcing	✓		
31	Any special support required by soil analysis such as piling.			✓
32	Assumed load-bearing value of soil <u>1000</u> Pound Per Square Foot	✓		
33	Location of horizontal and vertical steel, for foundation or walls (include # size and type) For structures with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an grounding electrode system. Per the National Electrical Code article 250.52.3			

**FBCR 506: CONCRETE SLAB ON GRADE**

34	Show Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)	✓		
35	Show control joints, synthetic fiber reinforcement or welded fire fabric reinforcement and Supports	✓		

**FBCR 318: PROTECTION AGAINST TERMITES**

36	Indicate on the foundation plan if soil treatment is used for subterranean termite prevention or Submit other approved termite protection methods. Protection shall be provided by registered termiticides	✓		
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**FBCR 606: Masonry Walls and Stem walls (load bearing & shear Walls)**

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

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

**Floor Framing System: First and/or second story**

39	Floor truss package shall including layout and details, signed and sealed by Florida Registered Professional Engineer			✓
40	Show conventional floor joist type, size, span, spacing and attachment to load bearing walls, stem walls and/or piers			✓
41	Girder type, size and spacing to load bearing walls, stem wall and/or piers			✓
42	Attachment of joist to girder			✓
43	Wind load requirements where applicable			✓
44	Show required under-floor crawl space			✓
45	Show required amount of ventilation opening for under-floor spaces			✓
46	Show required covering of ventilation opening			✓
47	Show the required access opening to access to under-floor spaces			✓
48	Show the sub-floor structural panel sheathing type, thickness and fastener schedule on the edges & interior of the areas structural panel sheathing			✓

49	Show Draftstopping, Fire caulking and Fire blocking	✓		
50	Show fireproofing requirements for garages attached to living spaces, per FBCR section 302.6			✓
51	Provide live and dead load rating of floor framing systems (psf).			✓

## **FBCR CHAPTER 6 WOOD WALL FRAMING CONSTRUCTION**

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Items to Include- Each Box shall be Circled as Applicable		
		YES	NO	N/A
52	Stud type, grade, size, wall height and oc spacing for all load bearing or shear walls	✓		
53	Fastener schedule for structural members per table IRC 602.3 are to be shown	✓		
54	Show wood structural panel's sheathing attachment to studs, joist, trusses, rafters and structural members, showing fastener schedule attachment on the edges & intermediate of the areas structural panel sheathing	✓		
55	Show all required connectors with a max uplift rating and required number of connectors and oc spacing for continuous connection of structural walls to foundation and roof trusses or rafter systems	✓		
56	Show sizes, type, span lengths and required number of support jack studs, king studs for shear wall opening and girder or header per IRC Table 502.5 (1)	✓		
57	Indicate where pressure treated wood will be placed	✓		
58	Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing edges & intermediate areas	✓		
59	A detail showing gable truss bracing, wall balloon framing details or/ and wall hinge bracing detail	✓		

## **FBCR :ROOF SYSTEMS:**

60	Truss design drawing shall meet section FBCR 802.1.6.1 Wood trusses	✓		
61	Include a layout and truss details, signed and sealed by Florida Professional Engineer	✓		
62	Show types of connector's assemblies' and resistance uplift rating for all trusses and rafters	✓		
63	Show gable ends with rake beams showing reinforcement or gable truss and wall bracing details	✓		
64	Provide dead load rating of trusses	✓		

## **FBCR 802:Conventional Roof Framing Layout**

65	Rafter and ridge beams sizes, span, species and spacing			✓
66	Connectors to wall assemblies' include assemblies' resistance to uplift rating			✓
67	Valley framing and support details			✓
68	Provide dead load rating of rafter system			✓

## **FBCR 803 ROOF SHEATHING**

69	Include all materials which will make up the roof decking, identification of structural panel sheathing, grade, thickness	✓		
70	Show fastener Size and schedule for structural panel sheathing on the edges & intermediate areas	✓		

## **ROOF ASSEMBLIES FRC Chapter 9**

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



## **FBCR Chapter 11 Energy Efficiency Code for residential building**

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

<b>GENERAL REQUIREMENTS:</b> APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Items to Include- Each Box shall be Circled as Applicable		
		YES	NO	N/A
73	Show the insulation R value for the following areas of the structure			
74	Attic space	✓		
75	Exterior wall cavity	✓		
76	Crawl space	✓		
				✓

### **HVAC information**

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

### **Plumbing Fixture layout shown**

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

### **Private Potable Water**

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

### **Electrical layout shown including**

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

90	Appliances and HVAC equipment and disconnects	✓		
91	Show all 120-volt, single phase, 15- and 20-ampere branch circuits supplying outlets installed in dwelling unit family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreation rooms, closets, hallways, or similar rooms or areas shall be protected by a listed <b>Combination arc-fault circuit interrupter</b> , Protection device.	✓		

**Disclosure Statement for Owner Builders** *If you as the applicant will be acting as an owner/builder under section 489.103(7) of the Florida Statutes, submit the required owner builder disclosure statement form.*

**Notice Of Commencement**

A notice of commencement form **recorded** in the Columbia County Clerk Office is required to be filed with the building department Before Any Inspections can be preformed.

<p align="center"><b>GENERAL REQUIREMENTS:</b>  <b>APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL</b></p>	<p align="center">Items to Include-  Each Box shall be  Circled as  Applicable</p>
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**THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS**

		YES	NO	N/A
92	<b>Building Permit Application</b> A current On-Line Building Permit Application <a href="http://www.ccpermit.com">www.ccpermit.com</a> is to be completed, by following the Checklist all supporting documents must be submitted. There is a <b>\$15.00</b> application fee.	✓		
93	<b>Parcel Number</b> The parcel number (Tax ID number) from the Property Appraisers Office (386) 758-1083 is required. A copy of property deed is also requested. <a href="http://www.columbiacountyfla.com">www.columbiacountyfla.com</a>	✓		
94	<b>Environmental Health Permit or Sewer Tap Approval</b> A copy of a approved Columbia County Environmental Health (386) 758-1058	✓		
95	<b>City of Lake City</b> A permit showing an approved waste water sewer tap 386-752-2031			
96	<b>Toilet facilities shall be provided for all construction sites</b>	✓		
97	<b>Town of Fort White</b> (386) 497-2321 If the parcel in the application for building permit is within the Corporate city limits of Fort White, an approval land use development letter issued by the Town of Fort is required to be submitted with the application for a building permit.			
98	<b>Flood Information:</b> All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting a application to this office. Any project located within a flood zone where the base flood elevation (100 year flood) has been established shall meet the requirements of Section 8.5.2 of the Columbia County Land Development Regulations. Any project located within a flood zone where the base flood elevation has not been established (Zone A) shall meet the requirements of Section 8.5.3 of the Columbia County Land Development Regulations	✓		
99	<b>CERTIFIED FINISHED FLOOR ELEVATIONS</b> will be required on any project where the approved FIRM Flood Maps show the property is in a AE, Floodway, and AH flood zones. Additionally One Foot Rise letters are required for AE and AH zones. In the Floodway Flood zones a Zero Rise letter is required.			
100	A Flood development permit is also required for AE, Floodway & AH. Development permit cost is <b>\$50.00</b>			
101	<b>Driveway Connection:</b> If the property does not have an existing access to a public road, then an application for a culvert permit ( <b>\$25.00</b> ) must be made. County Public Works Dept. determines the size and length of every culvert before instillation and completes a final inspection before permanent power is granted. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver ( <b>\$50.00</b> ) Separate Check when issued. If the project is to be located on an F.D.O.T. maintained road, then an F.D.O.T. access permit is required.	✓		
102	<b>911 Address:</b> An application for a 911 address must be applied for and <b>received</b> through the Columbia County Emergency Management Office of 911 Addressing Department (386) 758-1125 Ext. 3	✓		



**Section R101.2.1 of the Florida Building Code Residential:**

The provisions of Chapter 1, Florida Building Code shall govern the administration and enforcement of the Florida Building Code, Residential.

Section 105 of the Florida Building Code defines the:

**Time limitation of application.**

An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application has been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated.

**Single-family residential dwelling.**

Section 105.3.4 A building permit for a single-family residential dwelling must be issued within 30 working days of application therefor unless unusual circumstances require a longer time for processing the application or unless the permit application fails to satisfy the Florida Building Code or the enforcing agency's laws or ordinances.

**Permit intent.**

Section 105.4.1: A permit issued shall be constructed to be a license to proceed with the work and not as authority to violate, cancel, alter or set aside any of the provisions of the technical codes, nor shall issuance of a permit prevent the building official from thereafter requiring a correction of errors in plans, construction or violations of this code. Every permit issued shall become invalid unless the work authorized by such permit is commenced within six months after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of six months after the time the work is commenced.

**If work has commenced.**

Section 105.4.1.1: If work has commenced and the permit is revoked, becomes null and void, or expires because of lack of progress or abandonment, a new permit covering the proposed construction shall be obtained before proceeding with the work.

**New Permit.**

Section 105.4.1.2: If a new permit is not obtained within 180 days from the date the initial permit became null and void, the building official is authorized to require that any work which has been commenced or completed be removed from the building site. Alternately, a new permit may be issued on application, providing the work in place and required to complete the structure meets all applicable regulations in effect at the time the initial permit became null and void and any regulations which may have become effective between the date of expiration and the date of issuance of the new permit.

**Work Shall Be:**

Section 105.4.1.3: Work shall be considered to be in active progress when the permit has received an approved inspection within 180 days. This provision shall not be applicable in case of civil commotion or strike or when the building work is halted due directly to judicial injunction, order or similar process.

**The Fee:**

Section 105.4.1.4: The fee for renewal reissuance and extension of a permit shall be set forth by the administrative authority.

When the application is approved for permitting the applicant will be notified by phone as to the status by the Columbia County Building & Zoning Department.

# PRODUCT APPROVAL SPECIFICATION SHEET

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and approval numbers on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products.

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
<b>1. EXTERIOR DOORS</b>			
A. SWINGING			
B. SLIDING			
C. SECTIONAL			
D. ROLL UP			
E. AUTOMATIC			
F. OTHER			
<b>2. WINDOWS</b>			
A. SINGLE HUNG			
B. HORIZONTAL SLIDER			
C. CASEMENT			
D. DOUBLE HUNG			
E. FIXED			
F. AWNING			
G. PASS THROUGH			
H. PROJECTED			
I. MULLION			
J. WIND BREAKER			
K. DUAL ACTION			
L. OTHER			
<b>3. PANEL WALL</b>			
A. SIDING			
B. SOFFITS			
C. EIFS			
D. STOREFRONTS			
E. CURTAIN WALLS			
F. WALL LOUVER			
G. GLASS BLOCK			
H. MEMBRANE			
I. GREENHOUSE			
J. OTHER			
<b>4. ROOFING PRODUCTS</b>			
A. ASPHALT SHINGLES			
B. UNDERLAYMENTS			
C. ROOFING FASTENERS			
D. NON-STRUCTURAL METAL ROOFING			
E. WOOD SHINGLES AND SHAKES			
F. ROOFING TILES			
G. ROOFING INSULATION			
H. WATERPROOFING			
I. BUILT UP ROOFING ROOF SYSTEMS			
J. MODIFIED BITUMEN			
K. SINGLE PLY ROOF SYSTEMS			
L. ROOFING SLATE			
M. CEMENTS-ADHESIVES COATINGS			

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
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ROOF SYSTEMS			
O. ROOF TILE ADHESIVE			
P. SPRAY APPLIED POLYURETHANE ROOF			
Q. OTHER			
<b>5. SHUTTERS</b>			
A. ACCORDION			
B. BAHAMA			
C. STORM PANELS			
D. COLONIAL			
E. ROLL-UP			
F. EQUIPMENT			
G. OTHERS			
<b>6. SKYLIGHTS</b>			
A. SKYLIGHT			
B. OTHER			
<b>7. STRUCTURAL COMPONENTS</b>			
A. WOOD CONNECTORS/ ANCHORS			
B. TRUSS PLATES			
C. ENGINEERED LUMBER			
D. RAILING			
E. COOLERS-FREEZERS			
F. CONCRETE ADMIXTURES			
G. MATERIAL			
H. INSULATION FORMS			
I. PLASTICS			
J. DECK-ROOF			
K. WALL			
L. SHEDS			
M. OTHER			
<b>8. NEW EXTERIOR ENVELOPE PRODUCTS</b>			
A.			
B.			

The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of these products, the following information must be available to the inspector on the jobsite; 1) copy of the product approval, 2) the performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturers installation requirements. Further, I understand these products may have to be removed if approval cannot be demonstrated during inspection.

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APPLICANT SIGNATURE

DATE

Prepared by:  
Elaine R. Davis  
American Title Services of Lake City, Inc.  
321 SW Main Boulevard, Suite 105  
Lake City, Florida 32025

File Number: 12-246

Inst: 201212011363 Date: 7/31/2012 Time: 12:29 PM  
Doc Stamp Deed: 140.00  
DC, P. DeWitt Cason, Columbia County Page 1 of 1 B: 1239 P: 296

### Warranty Deed

Made this July 25, 2012 A.D.

By **MICHAEL J. QUINTAVALLE and LYNN R. QUINTAVALLE**, As Trustees of the **MICHAEL J. QUINTAVALLE and LYNN R. QUINTAVALLE REVOCABLE TRUST**, dated March 5, 2004, whose address is: 1013 West Boone Court, Lady Lake, Florida 32159, hereinafter called the grantors,

to **ARTHUR J. MCQUILLAN and BEBE D. MCQUILLAN**, husband and wife, whose post office address is: 240 NW Harwell Court, Lake City, Florida 32055, hereinafter called the grantee:

(Whenever used herein the term "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)

**Witnesseth**, that the grantor, for and in consideration of the sum of Ten Dollars, (\$10.00) and other valuable considerations, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, aliens, remises, releases, conveys and confirms unto the grantee, all that certain land situate in Columbia County, Florida, viz:

**LOTS 154 and 155, of EMERALD LAKES PHASE 4**, according to the Plat thereof, as recorded in Plat Book 6, at Pages 151 through 152, of the Public Records of **COLUMBIA COUNTY, FLORIDA**.

Parcel ID Number: 02372-454 & 02372-455

**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, 2011.

**In Witness Whereof**, the said grantor has signed and sealed these presents the day and year first above written.

Signed, sealed and delivered in our presence:

Willa J. Gray  
Witness Printed Name Willa J. Gray

Cindy Janes  
Witness Printed Name Cindy Janes

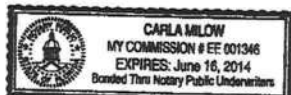
Michael J. Quintavalle (Seal)  
Michael J. Quintavalle, As Trustee of the  
Michael J. Quintavalle and Lynn R. Quintavalle Revocable  
Trust dated 3/5/2004  
1013 West Boone Court, Lady Lake, Florida 32159

Lynn R. Quintavalle (Seal)  
Lynn R. Quintavalle, As Trustee of the  
Michael J. Quintavalle and Lynn R. Quintavalle Revocable  
Trust dated 3/5/2004

State of FLORIDA

County of Lake

The foregoing instrument was acknowledged before me this 25 day of July, 2012, by Michael J. Quintavalle and Lynn R. Quintavalle Revocable Trust dated 3/5/2004 Michael J. Quintavalle and Lynn R. Quintavalle, Trustees, who is/are personally known to me or who has produced Drivers Licenses as identification.



Carla Milow  
Notary Public  
Print Name: Carla Milow  
My Commission Expires: June 16, 2014



Columbia County 2013 R  
CARD 001 of 001  
BY TTTT  
10:44

CARD 001 of 001  
BY JEFF

BLDG TRAVERSE

BOOK	PAGE	DATE	SALE	PRICE
GRANTOR 1239	MICHAEL	7/25/2012	Q V	20000
GRANTEE 1073	ARTHUR J & BEBE D MCQUILLAN	2/01/2006	Q V	70000
GRANTOR	BRYAN ZECHER CONSTRUCTION			
GRANTEE	MICHAEL AND LYNN QUINTAVALLE TRUST			
ADD	UT PR	SPCD %	%GOOD	YEAR VALUE

LAND AE Y 000000	DESC	ZONE	ROAD TOPO	{ UD1 UD4	FRONT BACK	DEPTH DT	FIELD CK: ADJUSTMENTS	UNITS UT	PRICE	ADJ UT PR	LAND VALUE
00	VAC RES	0002	0003				1.00 1.00 1.00	1.000	15000.000	15000.00	15,000

# COLUMBIA COUNTY 9-1-1 ADDRESSING

P. O. Box 1787, Lake City, FL 32056-1787

PHONE: (386) 758-1125 \* FAX: (386) 758-1365 \* Email: ron\_croft@columbiacountyfla.com

## Addressing Maintenance

To maintain the Countywide 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 assigning 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 Service 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 REQUESTED: 1/25/2013      DATE ISSUED: 1/25/2013

### ENHANCED 9-1-1 ADDRESS:

280      NW      ZACK      DR

LAKE CITY      FL      32055

### PROPERTY APPRAISER PARCEL NUMBER:

28-3S-16-02372-454

### Remarks:

ADDRESS FOR PROPOSED STRUCTURE ON PARCEL. LOT 154,  
EMERALD LAKE S/D PH4

Address Issued By: SIGNED: / RONAL N. CROFT  
Columbia County 9-1-1 Addressing / GIS Department

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



## Brian Kepner

---

**From:** Ron Croft  
**Sent:** Tuesday, February 26, 2013 1:10 PM  
**To:** Brian Kepner  
**Subject:** RE: Address on Zack Drive

The site plan I have shows driveway to Zack Dr. In this subdivision per ordinance we address frontage of structure (front door) facing to street.

Ron

*Ronal N. Croft*

Columbia County 911 Addressing / GIS Department  
P.O. Box 1787  
Lake City, FL 32056-1787  
Phone: 386-758-1125  
Fax: 386-758-1365  
E-Mail: [ron\\_croft@columbiacountyfla.com](mailto:ron_croft@columbiacountyfla.com)

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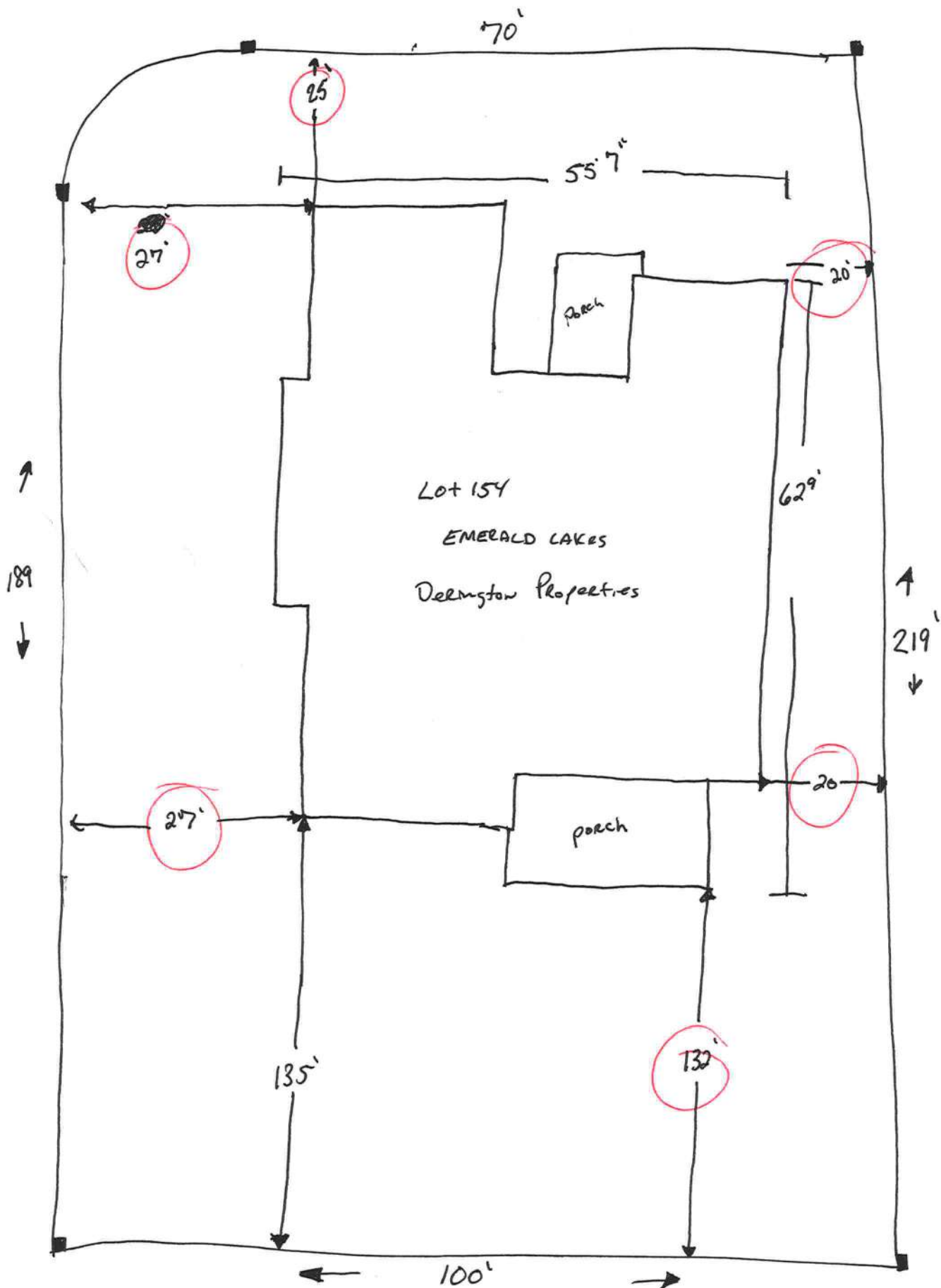
**From:** Brian Kepner  
**Sent:** Tuesday, February 26, 2013 12:42 PM  
**To:** Ron Croft  
**Subject:** Address on Zack Drive

Ron,

Was wondering what your application shows as the driveway for Lot 154, Emerald Lake, Phase 4 subdivision, parcel #28-35-16-02372-454? The site plan I received shows the garage door opening facing NW Kelly Lake Court. Does that matter?

Brian Kepner  
Columbia County  
Land Development  
Regulation Administrator  
386.754.7119  
386.758.2160 FAX









# Load Short Form

## Entire House

### D L Williams Heating & Cooling LLC

Job:  
Date: Apr 24, 2012  
By:

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Fax: 386-755-0784 Email: DWILLIAM@WILLIAMSCOOLING.COM Web: DLWILLIAMSHEATINGANDCOOLING.COM

## Project Information

For: Derington, Plumb Level Const  
Lake City, FL

## Design Information

	Htg	Clg	Infiltration	Simplified
Outside db (°F)	33	92	Method	Average
Inside db (°F)	68	75	Construction quality	0
Design TD (°F)	35	17	Fireplaces	
Daily range	-	M		
Inside humidity (%)	30	50		
Moisture difference (gr/lb)	8	48		

### HEATING EQUIPMENT

Make Generic  
Trade  
Model SEER 13.0, HSPF 7.7  
AHRI ref no.

Efficiency 7.7 HSPF  
Heating input  
Heating output 35821 Btuh @ 47°F  
Temperature rise 27 °F  
Actual air flow 1200 cfm  
Air flow factor 0.053 cfm/Btuh  
Static pressure 0.50 in H2O  
Space thermostat

### COOLING EQUIPMENT

Make Generic  
Trade  
Cond SEER 13.0, HSPF 7.7  
Coil

AHRI ref no.  
Efficiency 11.6 EER, 13 SEER  
Sensible cooling 25200 Btuh  
Latent cooling 10800 Btuh  
Total cooling 36000 Btuh  
Actual air flow 1200 cfm  
Air flow factor 0.052 cfm/Btuh  
Static pressure 0.50 in H2O  
Load sensible heat ratio 0.83

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
br1	195	3516	2102	188	<b>109</b>
bath1	80	1052	407	56	<b>21</b>
br2	195	4642	3169	248	<b>165</b>
liv	558	6818	7998	364	<b>416</b>
hall	24	35	51	2	<b>3</b>
utility	70	101	782	5	<b>41</b>
Room8	30	43	64	2	<b>3</b>
clos	28	40	60	2	<b>3</b>
clos1	86	1189	390	63	<b>20</b>
bath	113	1812	530	97	<b>28</b>
mb	225	0	3121	0	<b>162</b>
kit	287	3221	4385	172	<b>228</b>

*Bold/italic values have been manually overridden*

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



Entire House	d	1891	22468	23058	1200	<b>1200</b>
Other equip loads			0	0		
Equip. @ 0.97 RSM				22389		
Latent cooling				4749		
TOTALS		1891	22468	27138	1200	<b>1200</b>

*Bold/italic values have been manually overridden*

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



# Loads for Multiple Orientations Entire House D L Williams Heating & Cooling LLC

Job:  
Date: Apr 24, 2012  
By:

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Fax: 386-755-0784 Email: DWILLIAM@WILLIAMSCOOLING.COM Web: DLWILLIAMSHHEATINGANDCOOLING.COM

## Project Information

For: Derington, Plumb Level Const  
Lake City, FI

## Design Conditions

### Location:

Gainesville Regional AP, FL, US  
Elevation: 131 ft  
Latitude: 30°N

### Outdoor:

Dry bulb (°F)  
Daily range (°F)  
Wet bulb (°F)  
Wind speed (mph)

### Heating

33

### Cooling

92

18 ( M )

77

7.5

### Indoor:

Indoor temperature (°F)  
Design TD (°F)  
Relative humidity (%)  
Moisture difference (gr/lb)

### Heating

68

35

30

8.4

### Cooling

75

17

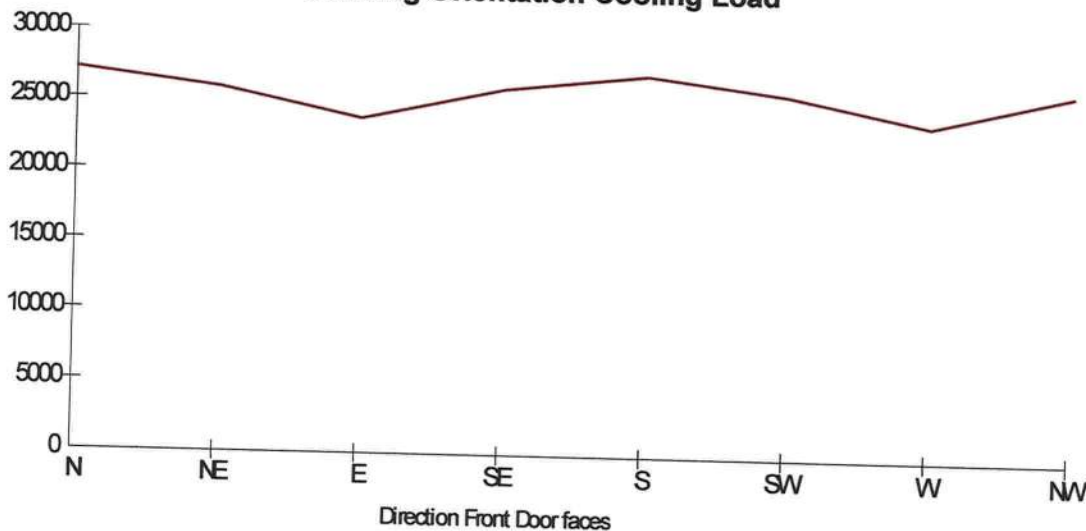
50

48.5

### Infiltration:

Front Door	North	Northeast	East	Southeast	South	Southwest	West	Northwest
Sensible Load (Btuh)	22389	21146	19043	21225	22349	21064	19054	21445
Latent Load (Btuh)	4749	4749	4749	4749	4749	4749	4749	4749
Total Load (Btuh)	27138	25895	23792	25974	27099	25813	23803	26195
Heating AVF (cfm)	1200	1200	1200	1200	1200	1200	1200	1200
Cooling AVF (cfm)	1200	1200	1200	1200	1200	1200	1200	1200

## Building Orientation Cooling Load



Current Orientation: Front Door faces North  
Highest Cooling Load: Front Door faces North

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



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2013-Feb-08 16:37:25

Page 1





# Building Analysis Entire House D L Williams Heating & Cooling LLC

Job:  
Date: Apr 24, 2012  
By:

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Fax: 386-755-0784 Email: DWILLIAM@WILLIAMSCOOLING.COM Web: DLWILLIAMSHHEATINGANDCOOLING.COM

## Project Information

For: Derington, Plumb Level Const  
Lake City, FL

## Design Conditions

### Location:

Gainesville Regional AP, FL, US  
Elevation: 131 ft  
Latitude: 30°N

### Outdoor:

Dry bulb (°F)  
Daily range (°F)  
Wet bulb (°F)  
Wind speed (mph)

### Heating

33

### Cooling

92  
18 ( M )  
77  
7.5

### Indoor:

Indoor temperature (°F)  
Design TD (°F)  
Relative humidity (%)  
Moisture difference (gr/lb)

### Heating

68  
35  
30  
8.4

### Cooling

75  
17  
50  
48.5

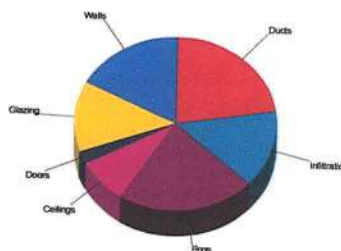
### Infiltration:

Method  
Construction quality  
Fireplaces

Simplified  
Average  
0

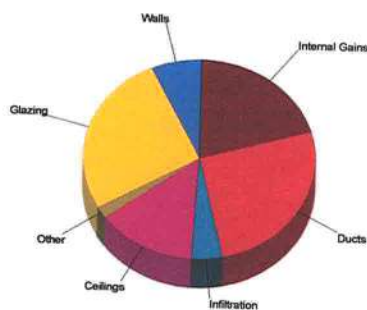
## Heating

Component	Btuh/ft²	Btuh	% of load
Walls	2.7	3949	17.6
Glazing	17.3	2940	13.1
Doors	12.3	515	2.3
Ceilings	1.0	1866	8.3
Floors	2.6	4950	22.0
Infiltration	2.3	3234	14.4
Ducts		5014	22.3
Piping		0	0
Humidification		0	0
Ventilation		0	0
Adjustments		0	0
<b>Total</b>		<b>22468</b>	<b>100.0</b>



## Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	1.1	1630	7.1
Glazing	35.9	6111	26.5
Doors	10.3	432	1.9
Ceilings	1.7	3201	13.9
Floors	0	0	0
Infiltration	0.7	958	4.2
Ducts		6056	26.3
Ventilation		0	0
Internal gains		4670	20.3
Blower		0	0
Adjustments		0	0
<b>Total</b>		<b>23058</b>	<b>100.0</b>



Latent Cooling Load = 4749 Btuh  
Overall U-value = 0.087 Btuh/ft²·°F

Data entries checked.



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2013-Feb-08 16:37:26  
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# Component Constructions

## Entire House

### D L Williams Heating & Cooling LLC

Job:  
Date: Apr 24, 2012  
By:

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Fax: 386-755-0784 Email: DWILLIAM@WILLIAMSCOOLING.COM Web: DLWILLIAMSHHEATINGANDCOOLING.COM

## Project Information

For: Derington, Plumb Level Const  
Lake City, FL

## Design Conditions

### Location:

Gainesville Regional AP, FL, US  
Elevation: 131 ft  
Latitude: 30°N

### Outdoor:

Dry bulb (°F)  
Daily range (°F)  
Wet bulb (°F)  
Wind speed (mph)

### Heating

33  
-  
-  
15.0

### Cooling

92  
18 (M)  
77  
7.5

### Indoor:

Indoor temperature (°F)  
Design TD (°F)  
Relative humidity (%)  
Moisture difference (gr/lb)

### Heating

68  
35  
30  
8.4

### Cooling

75  
17  
50  
48.5

### Infiltration:

Method  
Construction quality  
Fireplaces

Simplified  
Average  
0

## Construction descriptions

### Walls

12C-0bw: Frm wall, brk 4" ext, 3/8" wood shth, r-13 cav ins, 1/2" gypsum board int fnsh, 2"x4" wood frm

	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
n		350	0.091	13.0	1.71	599	1.36	475
e		169	0.091	13.0	3.19	538	1.36	229
s		332	0.091	13.0	3.18	1057	1.36	450
w		351	0.091	13.0	2.39	838	1.36	476
all		1202	0.091	13.0	2.52	3032	1.36	1630
		288	0.091	13.0	3.18	917	0	0

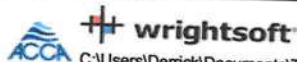
### Partitions

12C-0sw: Frm wall, stucco ext, r-13 cav ins, 2"x4" wood frm

### Windows

4A5-2ob: 2 glazing, clr low-e outr, air gas, mtl /w brk frm mat, clr innr, 1/4" gap, 1/8" thk; 50% blinds 45°, light; 50% outdoor insect screen; foreground = green grass (0.23); 1 ft overhang (1 ft window ht, 1 ft sep.)  
4A5-2ob: 2 glazing, clr low-e outr, air gas, mtl /w brk frm mat, clr innr, 1/4" gap, 1/8" thk; 50% blinds 45°, light; 50% outdoor insect screen; foreground = green grass (0.23); 1 ft overhang (5 ft window ht, 1 ft sep.)  
4A5-2ob: 2 glazing, clr low-e outr, air gas, mtl /w brk frm mat, clr innr, 1/4" gap, 1/8" thk; 50% blinds 45°, light; 50% outdoor insect screen; foreground = green grass (0.23); 1 ft overhang (7 ft window ht, 1 ft sep.)  
4A5-2ob: 2 glazing, clr low-e outr, air gas, mtl /w brk frm mat, clr innr, 1/4" gap, 1/8" thk; 50% blinds 45°, light; 50% outdoor insect screen; foreground = green grass (0.23); 1 ft overhang (2 ft window ht, 1 ft sep.)  
4A5-2ob: 2 glazing, clr low-e outr, air gas, mtl /w brk frm mat, clr innr, 1/4" gap, 1/8" thk; 50% blinds 45°, light; 50% outdoor insect screen; foreground = green grass (0.23); 1 ft overhang (4 ft window ht, 1 ft sep.)

n		4	0.560	0	19.6	78	13.6	54
e		60	0.560	0	19.6	1176	36.7	2205
w		40	0.560	0	9.80	392	36.7	1470
all		100	0.560	0	15.7	1568	36.7	3675
e		14	0.560	0	19.6	274	36.7	514
s		4	0.560	0	19.6	78	15.6	62
w		48	0.560	0	19.6	941	36.7	1764



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**Doors**

11N0: Door, mtl eps core type	e	21	0.350	8.7	12.3	257	10.3	216
	w	21	0.350	8.7	12.3	257	10.3	216
	all	42	0.350	8.7	12.3	515	10.3	432

**Ceilings**

16B-30ad: Attic ceiling, asphalt shingles roof mat, r-30 ceil ins, 1/2" gypsum board int fnsh	1891	0.032	30.0	0.99	1866	1.69	3201
---	------	-------	------	------	------	------	------

**Floors**

22A-cpl: Bg floor, light dry soil, on grade depth, carpet flr fnsh	173	0.989	0	28.6	4950	0	0
--	-----	-------	---	------	------	---	---







**Project Summary**  
**Entire House**  
**D L Williams Heating & Cooling LLC**

Job:  
 Date: Apr 24, 2012  
 By:

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Fax: 386-755-0784 Email: DWILLIAM@WILLIAMSCOOLING.COM Web: DLWILLIAMSHEATINGANDCOOLING.COM

## Project Information

For: Derington, Plumb Level Const  
 Lake City, FL

Notes:

## Design Information

Weather: Gainesville Regional AP, FL, US

### Winter Design Conditions

Outside db	33 °F
Inside db	68 °F
Design TD	35 °F

### Summer Design Conditions

Outside db	92 °F
Inside db	75 °F
Design TD	17 °F
Daily range	M
Relative humidity	50 %
Moisture difference	48 gr/lb

### Heating Summary

Structure	17454 Btuh
Ducts	5014 Btuh
Central vent (0 cfm)	0 Btuh
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	22468 Btuh

### Sensible Cooling Equipment Load Sizing

Structure	17002 Btuh
Ducts	6056 Btuh
Central vent (0 cfm)	0 Btuh
Blower	0 Btuh

Use manufacturer's data	n
Rate/swing multiplier	0.97
Equipment sensible load	22389 Btuh

### Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

	Heating	Cooling
Area (ft²)	1666	1891
Volume (ft³)	13328	15353
Air changes/hour	0.38	0.20
Equiv. AVF (cfm)	84	51

### Latent Cooling Equipment Load Sizing

Structure	3479 Btuh
Ducts	1270 Btuh
Central vent (0 cfm)	0 Btuh
Equipment latent load	4749 Btuh

Equipment total load	27138 Btuh
Req. total capacity at 0.70 SHR	2.7 ton

### Heating Equipment Summary

Make	Generic
Trade	
Model	SEER 13.0, HSPF 7.7
AHRI ref no.	
Efficiency	7.7 HSPF
Heating input	
Heating output	35821 Btuh @ 47°F
Temperature rise	27 °F
Actual air flow	1200 cfm
Air flow factor	0.053 cfm/Btuh
Static pressure	0.50 in H2O
Space thermostat	

### Cooling Equipment Summary

Make	Generic
Trade	
Cond	SEER 13.0, HSPF 7.7
Coil	
AHRI ref no.	
Efficiency	11.6 EER, 13 SEER
Sensible cooling	25200 Btuh
Latent cooling	10800 Btuh
Total cooling	36000 Btuh
Actual air flow	1200 cfm
Air flow factor	0.052 cfm/Btuh
Static pressure	0.50 in H2O
Load sensible heat ratio	0.83

*Bold/italic values have been manually overridden*

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





**AED Assessment**  
**Entire House**  
**D L Williams Heating & Cooling LLC**

Job:  
Date: Apr 24, 2012  
By:

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Fax: 386-755-0784 Email: DWILLIAM@WILLIAMSCOOLING.COM Web: DLWILLIAMSHEATINGANDCOOLING.COM

### Project Information

For: Derington, Plumb Level Const  
Lake City, FL

### Design Conditions

**Location:**

Gainesville Regional AP, FL, US  
Elevation: 131 ft  
Latitude: 30°N

**Outdoor:**

Dry bulb (°F)  
Daily range (°F)  
Wet bulb (°F)  
Wind speed (mph)

**Heating**

33  
-  
-  
15.0

**Cooling**

92  
18 ( M )  
77  
7.5

**Indoor:**

Indoor temperature (°F)  
Design TD (°F)  
Relative humidity (%)  
Moisture difference (gr/lb)

**Heating**

68  
35  
30  
8.4

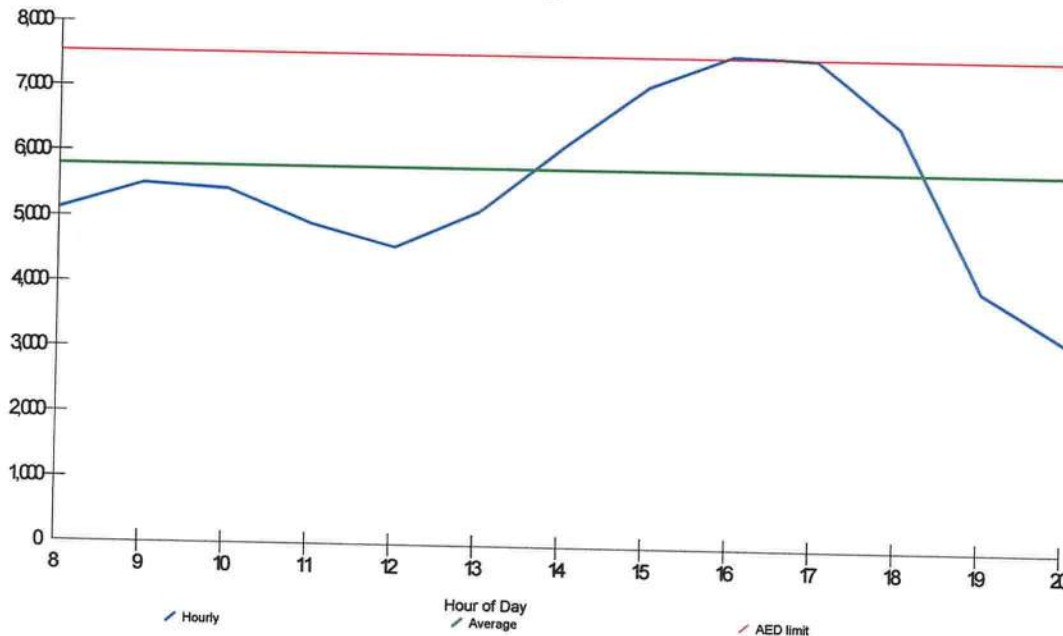
**Cooling**

75  
17  
50  
48.5

**Infiltration:**

### Test for Adequate Exposure Diversity

#### Hourly Glazing Load



**Maximum hourly glazing load exceeds average by 30.7%.**

**House does not have adequate exposure diversity (AED), based on AED limit of 30%.**

**AED excursion: 41 Btuh (PFG - 1.3\*AFG)**



**wrightsoft**

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# Right-J® Worksheet

## Entire House

### D L Williams Heating & Cooling LLC

Job:  
Date: Apr 24, 2012  
By:

PO Box 2156, Lake City, FI 32056 Phone: 386-754-1987 Fax: 386-755-0784 Email: DWILLIAM@WILLIAMSCOOLING.COM Web: DLWILLIAMSHEATINGANDCOOLING.COM

1	Room name					Entire House					br1					
2	Exposed wall					173.0 ft					28.0 ft					
3	Room height					8.1 ft					8.0 ft					
4	Room dimensions					d					13.0 x 15.0 ft					
5	Room area					1891.0 ft²					195.0 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	12C-0bw	0.091	n	1.71	1.36	354	350	599	475	0	0	0	0		
11	G	4A5-2ob	0.560	n	19.60	13.55	4	0	78	54	0	0	0	0		
	W	12C-0bw	0.091	e	3.18	1.36	264	169	538	229	0	0	0	0		
	G	4A5-2ob	0.560	e	19.60	36.75	60	0	1176	2205	0	0	0	0		
	G	4A5-2ob	0.560	e	19.60	36.75	14	0	274	514	0	0	0	0		
	D	11N0	0.350	e	12.25	10.29	21	21	257	216	0	0	0	0		
	W	12C-0bw	0.091	s	3.18	1.36	336	332	1057	450	120	120	382	163		
	G	4A5-2ob	0.560	s	19.60	15.55	4	4	78	62	0	0	0	0		
	W	12C-0bw	0.091	w	2.39	1.36	460	351	838	476	104	92	293	125		
	G	4A5-2ob	0.560	w	19.60	36.75	48	0	941	1764	12	0	235	441		
	G	4A5-2ob	0.560	w	9.80	36.75	40	0	392	1470	0	0	0	0		
	D	11N0	0.350	w	12.25	10.29	21	21	257	216	0	0	0	0		
P	12C-0sw	0.091	-	3.18	0.00	288	288	917	0	0	0	0	0			
C	16B-30ad	0.032	-	0.99	1.69	1891	1891	1866	3201	195	195	218	330			
F	22A-cpl	0.989	-	28.61	0.00	1891	173	4950	0	195	28	969	0			
6	c) AED excursion									41				110		
	Envelope loss/gain									14220	11374			2098	1168	
12	a) Infiltration									3234	958			633	152	
	b) Room ventilation									0	0			0	0	
13	Internal gains: Occupants @ 230						9			2070		1			230	
	Appliances/other									2600					0	
	Subtotal (lines 6 to 13)									17454	17002			2731	1550	
14	Less external load									0	0			0	0	
	Less transfer									0	0			0	0	
	Redistribution									0	0			0	0	
	Subtotal									0	0			0	0	
15	Duct loads									17454	17002			2731	1550	
							29%	36%		5014	6056		29%	36%	785	552
	Total room load									22468	23058			3516	2102	
	Air required (cfm)									1200	1200			188	109	

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



wrightsoft

Right-Suite® Universal 2012 12.0.06 RSU02245  
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# Right-J® Worksheet

## Entire House

### D L Williams Heating & Cooling LLC

Job:  
Date: Apr 24, 2012  
By:

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Fax: 386-755-0784 Email: DWILLIAM@WILLIAMSCOOLING.COM Web: DLWILLIAMSHHEATINGANDCOOLING.COM

1	Room name					bath1				br2				
2	Exposed wall					8.0 ft				35.0 ft				
3	Room height					heat/cool				heat/cool				
4	Room dimensions					8.0 ft 10.0 x 8.0 ft				8.0 ft 13.0 x 15.0 ft				
5	Room area					80.0 ft²				195.0 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	12C-0bw	0.091	n	1.71	1.36	0	0	0	0	56	56	178	76
.	G	4A5-2ob	0.560	n	19.60	13.55	0	0	0	0	0	0	0	0
.	W	12C-0bw	0.091	e	3.18	1.36	0	0	0	0	104	74	236	100
.	G	4A5-2ob	0.560	e	19.60	36.75	0	0	0	0	30	0	588	1102
11	G	4A5-2ob	0.560	e	19.60	36.75	0	0	0	0	0	0	0	0
	D	11N0	0.350	e	12.25	10.29	0	0	0	0	0	0	0	0
	W	12C-0bw	0.091	s	3.18	1.36	64	60	191	81	120	120	382	163
	G	4A5-2ob	0.560	s	19.60	15.55	4	4	78	62	0	0	0	0
	W	12C-0bw	0.091	w	2.39	1.36	0	0	0	0	0	0	0	0
	G	4A5-2ob	0.560	w	19.60	36.75	0	0	0	0	0	0	0	0
	G	4A5-2ob	0.560	w	9.80	36.75	0	0	0	0	0	0	0	0
	D	11N0	0.350	w	12.25	10.29	0	0	0	0	0	0	0	0
	P	12C-0sw	0.091	-	3.18	0.00	0	0	0	0	0	0	0	0
	C	16B-30ad	0.032	-	0.99	1.69	80	80	90	135	195	195	218	330
	F	22A-cpl	0.989	-	28.61	0.00	80	8	277	0	195	35	1212	0
6	c) AED excursion									-22				146
	Envelope loss/gain								636	257			2814	1917
12	a) Infiltration								181	43			792	190
	b) Room ventilation								0	0			0	0
13	Internal gains:			Occupants @	230		0			0	1			230
										0				0
	Subtotal (lines 6 to 13)								817	300			3606	2337
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
	Subtotal								817	300			3606	2337
14	Duct loads						29%	36%	235	107	29%	36%	1036	832
15	Total room load								1052	407			4642	3169
	Air required (cfm)								56	21			248	165

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



wrightsoft

Right-Suite® Universal 2012 12.0.06 RSU02245  
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# Right-J® Worksheet

## Entire House

### D L Williams Heating & Cooling LLC

Job:  
Date: Apr 24, 2012  
By:

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Fax: 386-755-0784 Email: DWILLIAM@WILLIAMSCOOLING.COM Web: DLWILLIAMSHHEATINGANDCOOLING.COM

1	Room name					liv				hall					
2	Exposed wall					36.0 ft				0 ft					
3	Room height					8.0 ft				8.0 ft					
4	Room dimensions					18.0 x 31.0 ft				3.0 x 8.0 ft					
5	Room area					558.0 ft²				24.0 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	12C-0bw	0.091	n	1.71	1.36	0	0	0	0	0	0	0	0	
	G	4A5-2ob	0.560	n	19.60	13.55	0	0	0	0	0	0	0	0	
	W	12C-0bw	0.091	e	3.18	1.36	144	79	252	107	0	0	0	0	
	G	4A5-2ob	0.560	e	19.60	36.75	30	0	588	1102	0	0	0	0	
11	G	4A5-2ob	0.560	e	19.60	36.75	14	0	274	514	0	0	0	0	
	D	11N0	0.350	e	12.25	10.29	21	21	257	216	0	0	0	0	
	W	12C-0bw	0.091	s	3.18	1.36	0	0	0	0	0	0	0	0	
	G	4A5-2ob	0.560	s	19.60	15.55	0	0	0	0	0	0	0	0	
	W	12C-0bw	0.091	w	2.39	1.36	144	87	277	118	0	0	0	0	
	G	4A5-2ob	0.560	w	19.60	36.75	36	0	706	1323	0	0	0	0	
	G	4A5-2ob	0.560	w	9.80	36.75	0	0	0	0	0	0	0	0	
	D	11N0	0.350	w	12.25	10.29	21	21	257	216	0	0	0	0	
P		12C-0sw	0.091	-	3.18	0.00	0	0	0	0	0	0	0	0	
C		16B-30ad	0.032	-	0.99	1.69	558	558	625	945	24	24	27	41	
F		22A-cpl	0.989	-	28.61	0.00	558	36	1246	0	24	0	0	0	
6	c) AED excursion									-430				-3	
	Envelope loss/gain									4482	4112		27	38	
12	a) Infiltration									814	195		0	0	
	b) Room ventilation									0	0		0	0	
13	Internal gains: Occupants @ 230 Appliances/other						3			690	900	0		0	0
	Subtotal (lines 6 to 13)									5297	5897		27	38	
	Less external load									0	0		0	0	
	Less transfer									0	0		0	0	
	Redistribution									0	0		0	0	
14	Subtotal									5297	5897		27	38	
15	Duct loads						29%	36%		1522	2100	29%	36%	8	13
	Total room load									6818	7998			35	51
	Air required (cfm)									364	416			2	3

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



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# Right-J® Worksheet

## Entire House

### D L Williams Heating & Cooling LLC

Job:  
Date: Apr 24, 2012  
By:

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Fax: 386-755-0784 Email: DWILLIAM@WILLIAMSCOOLING.COM Web: DLWILLIAMSHHEATINGANDCOOLING.COM

1	Room name					utility				Room8					
2	Exposed wall					0 ft				0 ft					
3	Room height					heat/cool				heat/cool					
4	Room dimensions					8.0 ft 7.0 x 10.0 ft				8.0 ft 5.0 x 6.0 ft					
5	Room area					70.0 ft²				30.0 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 . . . 11	W	12C-0bw	0.091	n	1.71	1.36	0	0	0	0	0	0	0	0	
	G	4A5-2ob	0.560	n	19.60	13.55	0	0	0	0	0	0	0	0	
	W	12C-0bw	0.091	e	3.18	1.36	0	0	0	0	0	0	0	0	
	G	4A5-2ob	0.560	e	19.60	36.75	0	0	0	0	0	0	0	0	
	G	4A5-2ob	0.560	e	19.60	36.75	0	0	0	0	0	0	0	0	
	D	11N0	0.350	e	12.25	10.29	0	0	0	0	0	0	0	0	
	W	12C-0bw	0.091	s	3.18	1.36	0	0	0	0	0	0	0	0	
	G	4A5-2ob	0.560	s	19.60	15.55	0	0	0	0	0	0	0	0	
	W	12C-0bw	0.091	w	2.39	1.36	0	0	0	0	0	0	0	0	
	G	4A5-2ob	0.560	w	19.60	36.75	0	0	0	0	0	0	0	0	
	G	4A5-2ob	0.560	w	9.80	36.75	0	0	0	0	0	0	0	0	
	D	11N0	0.350	w	12.25	10.29	0	0	0	0	0	0	0	0	
	P	12C-0sw	0.091	-	3.18	0.00	0	0	0	0	0	0	0	0	
	C	16B-30ad	0.032	-	0.99	1.69	70	70	78	118	30	30	34	51	
	F	22A-cpl	0.989	-	28.61	0.00	70	0	0	0	30	0	0	0	
6	c) AED excursion									-42				-3	
	Envelope loss/gain								78	76			34	47	
12	a) Infiltration								0	0			0	0	
	b) Room ventilation								0	0			0	0	
13	Internal gains:					Occupants @	230	0		0	0			0	0
						Appliances/other				500				0	0
	Subtotal (lines 6 to 13)								78	576			34	47	
	Less external load								0	0			0	0	
	Less transfer								0	0			0	0	
	Redistribution								0	0			0	0	
14	Subtotal								78	576			34	47	
15	Duct loads							29%	36%	23	205	29%	36%	10	17
	Total room load								101	782			43	64	
	Air required (cfm)								5	41			2	3	

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



Right-Suite® Universal 2012 12.0.06 RSU02245  
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# Right-J® Worksheet

## Entire House

### D L Williams Heating & Cooling LLC

Job:  
Date: Apr 24, 2012  
By:

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Fax: 386-755-0784 Email: DWILLIAM@WILLIAMSCOOLING.COM Web: DLWILLIAMSHHEATINGANDCOOLING.COM

1	Room name					bath 11.0 ft				mb 30.0 ft					
2	Exposed wall					8.0 ft 1.0 x 113.0 ft				9.0 ft 1.0 x 225.0 ft					
3	Room height					heat/cool				cool only					
4	Room dimensions					113.0 ft²				225.0 ft²					
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	12C-0bw	0.091	n	1.71	1.36	72	68	217	92	162	162	0	220	
11	G	4A5-2ob	0.560	n	19.60	13.55	4	0	78	54	0	0	0	0	
	W	12C-0bw	0.091	e	3.18	1.36	0	0	0	0	0	0	0	0	
	G	4A5-2ob	0.560	e	19.60	36.75	0	0	0	0	0	0	0	0	
	G	4A5-2ob	0.560	e	19.60	36.75	0	0	0	0	0	0	0	0	
	D	11N0	0.350	e	12.25	10.29	0	0	0	0	0	0	0	0	
	W	12C-0bw	0.091	s	3.18	1.36	0	0	0	0	0	0	0	0	
	G	4A5-2ob	0.560	s	19.60	15.55	0	0	0	0	0	0	0	0	
	W	12C-0bw	0.091	w	2.39	1.36	16	16	51	22	108	88	0	119	
	G	4A5-2ob	0.560	w	19.60	36.75	0	0	0	0	0	0	0	0	
	G	4A5-2ob	0.560	w	9.80	36.75	0	0	0	0	20	0	0	735	
	D	11N0	0.350	w	12.25	10.29	0	0	0	0	0	0	0	0	
P	12C-0sw	0.091	-	3.18	0.00	96	96	306	0	0	0	0	0		
C	16B-30ad	0.032	-	0.99	1.69	113	113	127	191	225	225	0	381		
F	22A-cpl	0.989	-	28.61	0.00	113	11	381	0	225	30	0	0		
6	c) AED excursion									-28				203	
	Envelope loss/gain								1159	331			0	1658	
12	a) Infiltration								249	60			0	183	
	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)								1408	391			0	2301	
	Less external load								0	0			0	0	
	Less transfer								0	0			0	0	
	Redistribution								0	0			0	0	
14	Subtotal								1408	391			0	2301	
15	Duct loads							29%	36%	404	139	0%	36%	0	820
	Total room load								1812	530			0	3121	
	Air required (cfm)								97	28			0	162	

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



Right-Suite® Universal 2012 12.0.06 RSU02245  
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# Right-J® Worksheet

## Entire House

### D L Williams Heating & Cooling LLC

Job:  
Date: Apr 24, 2012  
By:

PO Box 2156, Lake City, FL 32056 Phone: 386-754-1987 Fax: 386-755-0784 Email: DWILLIAM@WILLIAMSCOOLING.COM Web: DLWILLIAMSHEATINGANDCOOLING.COM

1	Room name					kit								
2	Exposed wall					15.0 ft								
3	Room height					8.0 ft					heat/cool			
4	Room dimensions					1.0 x 287.0 ft								
5	Room area					287.0 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	12C-0bw	0.091	n	1.71	1.36	0	0	0	0				
	G	4A5-2ob	0.560	n	19.60	13.55	0	0	0	0				
	W	12C-0bw	0.091	e	3.18	1.36	0	0	0	0				
	G	4A5-2ob	0.560	e	19.60	36.75	0	0	0	0				
11	G	4A5-2ob	0.560	e	19.60	36.75	0	0	0	0				
	D	11N0	0.350	e	12.25	10.29	0	0	0	0				
	W	12C-0bw	0.091	s	3.18	1.36	32	32	102	43				
	G	4A5-2ob	0.560	s	19.60	15.55	0	0	0	0				
	W	12C-0bw	0.091	w	2.39	1.36	88	68	217	92				
	G	4A5-2ob	0.560	w	19.60	36.75	0	0	0	0				
	G	4A5-2ob	0.560	w	9.80	36.75	20	0	392	735				
	D	11N0	0.350	w	12.25	10.29	0	0	0	0				
P		12C-0sw	0.091	-	3.18	0.00	192	192	612	0				
C		16B-30ad	0.032	-	0.99	1.69	287	287	321	486				
F		22A-cpl	0.989	-	28.61	0.00	287	15	519	0				
6	c) AED excursion									135				
	Envelope loss/gain									2163	1492			
12	a) Infiltration									339	81			
	b) Room ventilation									0	0			
13	Internal gains:		Occupants @	230			2			460				
			Appliances/other							1200				
	Subtotal (lines 6 to 13)									2502	3233			
	Less external load									0	0			
	Less transfer									0	0			
	Redistribution									0	0			
14	Subtotal									2502	3233			
15	Duct loads							29%	36%	719	1152			
	Total room load									3221	4385			
	Air required (cfm)									172	228			

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



## FORMS

FORM 402-2010

FLORIDA BUILDING CODE, ENERGY CONSERVATION  
Residential Building Thermal Envelope Approach

ALL CLIMATE ZONES

Scope: Compliance with Section 402 of the Florida Building Code, Energy Conservation, shall be demonstrated by the use of Form 402 for single- and multiple-family residences of three stories or less in height, additions to existing residential buildings, renovations to existing residential buildings, new heating, cooling, and water heating systems in existing buildings, as applicable. To comply, a building must meet or exceed all of the energy efficiency requirements on Table 402A and all applicable mandatory requirements summarized in Table 402B of this form. If a building does not comply with this method or Alternate Form 402, it may still comply under Section 405 of the Florida Building Code, Energy Conservation.

PROJECT NAME: AND ADDRESS:	DERINGTON PROPERTIES 280 NW ZACK DR. LAKE CITY, FL 32805	BUILDER:	PLUMB LEVEL
OWNER:	MCCULLAN	PERMITTING OFFICE:	
		PERMIT NO.:	JURISDICTION NO.:

## General Instructions:

1. New construction which incorporates any of the following features cannot comply using this method: glass areas in excess of 20 percent of conditioned floor area, electric resistance heat and air handlers located in attics. Additions  $\leq 600$  sq. ft., renovations and equipment changeouts may comply by this method with exceptions given.
2. Fill in all the applicable spaces of the "To Be Installed" column on Table 402A with the information requested. All "To Be Installed" values must be equal to or more efficient than the required levels.
3. Complete page 1 based on the "To Be Installed" column information.
4. Read the requirements of Table 402B and check each box to indicate your intent to comply with all applicable items.
5. Read, sign and date the "Prepared By" certification statement at the bottom of page 1. The owner or owner's agent must also sign and date the form.

1. New construction, addition, or existing building
2. Single-family detached or multiple-family attached
3. If multiple-family—No. of units covered by this submission
4. Is this a worst case? (yes/no)
5. Conditioned floor area (sq. ft.)
6. Glass type and area:
  - a. U-factor
  - b. SHGC
  - c. Glass area
7. Percentage of glass to floor area
8. Floor type, area or perimeter, and insulation:
  - a. Slab-on-grade (R-value)
  - b. Wood, raised (R-value)
  - c. Wood, common (R-value)
  - d. Concrete, raised (R-value)
  - e. Concrete, common (R-value)
9. Wall type, area and insulation:
  - a. Exterior:
    1. Masonry (Insulation R-value)
    2. Wood frame (Insulation R-value)
  - b. Adjacent:
    1. Masonry (Insulation R-value)
    2. Wood frame (Insulation R-value)
10. Ceiling type, area and insulation:
  - a. Under attic (Insulation R-value)
  - b. Single assembly (Insulation R-value)
11. Air distribution system: Duct insulation, location, Qn
  - a. Duct location, insulation
  - b. AHU location
  - c. Qn, Test report attached ( $< 0.03$ ; yes/no)
12. Cooling system:
  - a. Type
  - b. Efficiency
13. Heating system:
  - a. Type
  - b. Efficiency
14. HVAC sizing calculation: attached
15. Hot water system:
  - a. Type
  - b. Efficiency

Please Print

CK

1. NEW	
2. SF	
3. —	
4. NO	
5. 1909	
6a. .65	
6b. .35	
6c. 141.6	sq. ft.
7. 7.42	%
8a. R = 0	196.8 lin. ft.
8b. R =	sq. ft.
8c. R =	sq. ft.
8d. R =	sq. ft.
8e. R =	sq. ft.
9a-1. R =	sq. ft.
9a-2. R = 13	1453.9 sq. ft.
9b-1. R =	sq. ft.
9b-2. R = 13	174 sq. ft.
10a. R = 30	sq. ft. 1909
10b. R =	sq. ft.
11a. R = 6.0	UNCOND.
11b. Interior	
11c. Test report attached?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
12a. Type: Central	
12b. SEER/EER: 13	
13a. Type: Heat Pump	
13b. HSPF/COP/AFUE: 7.7	
14. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
15a. Type: Electric	
15b. EF: .92	



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

PREPARED BY: KEVIN Bedenbury, I DATE: 2-21-13

I hereby certify that this building is in compliance with the Florida Energy Code: OWNER AGENT: DATE: 2-21-13

Review of 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 in accordance with Section 553.908, F.S.

CODE OFFICIAL:

DATE:

TABLE 402A

BUILDING COMPONENT	PERFORMANCE CRITERIA <sup>1</sup>	INSTALLED VALUES:	
Windows (see Note 2):	U-Factor < 0.65 SHGC = 0.30 % of CFA <= 20%	U-Factor = .45 SHGC = .30 % of CFA = 7.42%	
Skylights	U-Factor < 0.75	U-Factor = 7.42%	
Doors: Exterior door U-Factor	U-Factor < 0.65	U-Factor = Insulated .65	
Floors: Slab-on-grade	No requirement	R-Value = 0 N/R	
Over unconditioned spaces (see Note 3)	R-13		
Walls - Ext. and Adj. (see Note 3):			
Frame	R-13	R-Value = 13	
Mass (see Note 3)	R-7.8	R-Value =	
Interior of wall:	R-6	R-Value =	
Exterior of wall:			
Ceilings (see Notes 3 & 4)	R=30	R-Value = 30	Test report Attached? Yes/No
Reflectance	0.25	Reflectance =	
Air distribution system (see Note 4)			
Ductwork & air handling unit:			
Unconditioned space	Not allowed	Duct - UN Conditioned Location: AHU - plenum	Test report Attached? Yes/No
Conditioned space			
Duct R-value	R-value ≥ 6	R-Value = 6	
Air leakage Qn	Qn ≤ 0.03	Qn =	
Air conditioning systems (see Note 5)	SEER = 13.0	SEER = 13	
Heating system			
Heat pump (see Note 5)	Cooling: Heating:	SEER = 13 HSPF = 7.7	
Gas furnace	AFUE 78%	AFUE =	
Oil furnace	AFUE 78%	AFUE =	
Electric resistance: Not allowed (see Note 5)			
Water heating system (storage type)			
Electric (see Note 6):	40 gal: EF = 0.92 50 gal: EF = 0.90	Gallons = 40 EF = .92	
Gas fired (see Note 7):	40 gal: EF = 0.59 50 gal: EF = 0.58	Gallons = EF =	
Other (describe):			

- (1) Each component present in the As Proposed home must meet or exceed each of the applicable performance criteria in order to comply with this code using this method; otherwise Section 405 compliance must be used.
- (2) Windows and doors qualifying as glazed fenestration areas must comply with both the maximum U-Factor and the maximum SHGC (solar Heat Gain Coefficient) criteria and have a maximum total window area equal to or less than 20% of the conditioned floor area (CFA); otherwise Section 405 must be used for compliance.  
Exception: Additions of 600 square feet (56 m<sup>2</sup>) or less may have a maximum glass to CFA of 50 percent.
- (3) R-values are for insulation material only as applied in accordance with manufacturers' installation instructions. For mass walls, the "interior of wall" requirement must be met except if at least 50% of the R-6 insulation required for the "exterior of wall" is installed exterior of, or integral to, the wall.
- (4) Ducts & AHU installed substantially leak free per Section 403.2.2.1. Test by Class 1 BERS rater required.  
Exception: Ducts installed onto an existing air distribution system as part of an addition or renovation; duct must be R-6 installed per Sec. 503.2.7.2.
- (5) For all conventional units with capacities greater than 30,000 Btu/hr. For other types of equipment, see Tables 503.2.3(1-8).  
Exception: The prohibition on electric resistance heat does not apply to additions, renovations and new heating systems installed in existing buildings.
- (6) For other electric storage volumes, minimum EF = 0.97-(0.00132 x volume).
- (7) For other natural gas storage volumes, minimum EF = 0.67-(0.0019 x volume).

TABLE 402B MANDATORY REQUIREMENTS

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Air leakage	402.4	To be caulked, gasketed, weatherstripped or otherwise sealed. Recessed lighting IC-rated as meeting ASTM E 283. Windows and doors = 0.30 cfm/sq.ft. Testing or visual inspection required. Fireplaces: gasketed doors & outdoor combustion air.	✓
Ceilings/knee walls	405.2.1	R-19 space permitting.	✓
Programmable thermostat	403.1.1	Where forced-air furnace is primary system, programmable thermostat is required.	✓
Air distribution system	403.2	Ducts in attics or on roofs insulated to R-8; other ducts R-6. Ducts tested to Q <sub>a</sub> = 0.03 by a Class 1 BERS rater.	✓
Water heaters	403.4	Heat trap required for vertical pipe risers. Comply with efficiencies in Table 403.4.3.2. Provide switch or clearly marked circuit breaker (electric) or shutoff (gas). Circulating system pipes insulated to = R-2 + accessible manual OFF switch.	✓
Swimming pool & spas	403.9	Spas and heated pools must have vapor-retardant covers or a liquid cover or other means proven to reduce heat loss except if 70% of heat from site-recovered energy. Off/timer switch required. Gas heaters minimum thermal efficiency = 78% (82% after 4/16/13). Heat pump pool heaters minimum COP = 4.0.	N/A
Cooling/heating equipment	403.6	Sizing calculation performed & attached. Minimum efficiencies per Tables 503.2.3. Equipment efficiency verification required. Special occasion cooling or heating capacity requires separate system or variable capacity system. Electric heat >10kW must be divided into two or more stages.	✓
Lighting equipment	404.1	At least 50% of permanently installed lighting fixtures shall be high-efficacy lamps.	✓



# Location:

## PRODUCT APPROVAL SPECIFICATION SHEET

### Project Name:

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information about product approval number(s) on the building components listed below if they will be utilized on the construction project which you are applying for a building permit on or after April 1, 2004. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. More information about statewide product approval can be obtained at [www.floridabuilding.org](http://www.floridabuilding.org)

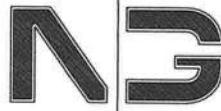
Approval can be obtained at [www.floridabuilding.org](http://www.floridabuilding.org) or the applicable listed products. More information can be obtained at [www.floridabuilding.org](http://www.floridabuilding.org)

Category/Subcategory	Manufacturer	Product Description	Approval Number
<b>A. EXTERIOR DOORS</b>			
1. Swinging	MASONITE	STEEL	FL4904-R5
2. Sliding			
3. Sectional			
4. Roll up			
5. Automatic			
6. Other			
<b>B. WINDOWS</b>			
1. Single hung	ME WINDOWS	DOUBLE PAVING single Hung	FL12250-R10
2. Horizontal Slider			
3. Casement			
4. Double Hung			
5. Fixed			
6. Awning			
7. Pass-through			
8. Projected			
9. Mullion			
10. Wind Breaker			
11. Dual Action			
12. Other			
<b>PANEL WALL</b>			
1. Siding	CERTAINTED KAYCAN	Fiber Cement Vinyl Soffit	FL3148-R3 FL12198-R2
2. Soffits			
3. EIFS			
4. Storefronts			
5. Curtain walls			
6. Wall louver			
7. Glass block			
8. Membrane			
9. Greenhouse			
10. Other			
<b>ROOFING PRODUCTS</b>			
Asphalt Shingles	CERTAINTED REX	Asphalt shingles Synthetic	FL5444-R4 FL12512-R2
Underlayments			
Roofing Fasteners	MILLENNIUM	RIB PANEL	5211.2
Non-structural Metal Rf			
Built-Up Roofing			
Modified Bitumen			
Single Ply Roofing Sys			
Roofing Tiles			
Roofing Insulation			
Waterproofing			
Wood shingles /shakes			
Roofing Slate			

COLUMBIA COUNTY BUILDING DEPARTMENT  
 Received for  
**FILE COPY**  
 Code Compliance  
 PLANS EXAMINER







**NICHOLAS  
PAUL  
GEISLER**  
**ARCHITECT**  
N.C.A.R.B. Certified

1758 NW Brown Road  
Lake City, FL 32055  
386/365-4355

22 FEBRUARY 2013

BUILDING OFFICIAL  
COLUMBIA COUNTY BUILDING DEPT.  
COLUMBIA COUNTY COURTHOUSE ANNEX  
LAKE CITY, FLORIDA

RE: DARINGTON PROPERTIES, L.L.C.  
PERMIT Nr.: \_\_\_\_\_

DEAR SIR:

PLEASE BE ADVISED OF THE FOLLOWING CHANGES AND CLEARIFICATIONS TO  
THE CONSTRUCTION DOCUMENTS FOR THE ABOVE REFERENCED PROJECT:

1. THE HOUSE FOOTING SHALL BE 20" X 12" W/ 2 #5 REBAR X CONTINUOUS,  
SUPPORTED ON WIRE CHAIRS @ 48" O.C.
2. THE COVERED PORCH FOOTINGS SHALL BE 16" X 18" X CONT. MONOLITHIC,  
W/ 2 #5 REBAR X CONTINUOUS, SUPPORTED ON WIRE CHAIRS @ 48" O.C.
3. IN LIEU OF THE BASIC TRUSS ANCHOR STRAPS SHOWN IN THE CON DOCS,  
"SIMPSON" H2.5a ANCHORS SHALL BE USED.

SHOULD YOU HAVE ANY FURTHER QUESTIONS WITH THIS, PLEASE CALL FOR  
ASSISTANCE.

YOURS TRULY,  
NICHOLAS PAUL GEISLER, ARCHITECT AR0007005



# COLUMBIA COUNTY OFFICE

## OCCUPANCY

### COLUMBIA COUNTY, FLORIDA

#### Department of Building and Zoning Inspection

This Certificate of Occupancy is issued to the below named permit holder for the building and premises at the below named location, and certifies that the work has been completed in accordance with the Columbia County Building Code.

Parcel Number 28-3S-16-02372-454

Building permit No. 000030809

Use Classification SFD/UTILITY

Fire: 19.26

Permit Holder KEVIN L. BEDENBAUGH, JR.

Waste: 50.25

Owner of Building ARTHUR MCQUILLAN

Total: 69.51

Location: 280 NW ZACK DRIVE, LAKE CITY, FL 32055

Date: 07/08/2013

*Greg Lee*

Building Inspector



POST IN A CONSPICUOUS PLACE  
(Business Places Only)



CORPORATE HEADQUARTERS:

P.O. BOX 5369  
116 N.W. 16TH AVENUE  
GAINESVILLE, FL 32602-5369

(352) 376-2661  
FAX (352) 376-2791

SCIENTIFIC PEST CONTROL DIRECTED BY GRADUATE ENTOMOLOGISTS

Complete Pest Control Service  
Member Florida & National Pest Control Associations

Plumb Level Construction  
232 NW Chadley LN  
Lake City  
32055

Reply to: 536 SE Baya Dr  
Lake City, FL 32025  
Phone (386) 752-1703 Fax (386) 752-0171

# 30809

OK  
7C  
2-13-13

# TERMITE TREATMENT CERTIFICATION

Owner: <b>Mr Art Mcquellen</b>	Permit Number: <b>30809</b>
Lot:	Block:
Subdivision:	Street Address: <b>280 NW Zack Dr</b>
City: <b>Lake City</b>	County: <b>Columbia</b>
General Contractor: <b>Plumb Level Construction</b>	Area Treated: <b>190LF</b>
Date: <b>7/9/13</b>	Time: <b>7:45</b>
Name of applicator: <b>Fred Crews</b>	Applicator ID Number: <b>JE78542</b>
Product Used: Active Ingredient: % Concentration <b>Premise: Imidacloprid: 0.10%</b>	Number of gallons used: <b>40</b>
Method of termite prevention treatment: <b>Soil treatment</b>	

The building has received a complete treatment for the prevention of subterranean termites. Treatment is in accordance with rules and laws established by the Florida Department of Agriculture and Consumer Services.  
**This form is proof of complete treatment for Certificate of Occupancy or Closing.**

## THIS IS PROOF OF WARRANTY

Warranty and Treatment Certifications Have Been Issued.

Authorized Signature: <i>Phillip Arnold</i>	Date: <b>7-10-2013</b>
--	---------------------------

### BRANCHES:

• Crystal River • Daytona Beach • Ft. Walton Beach • Jacksonville South • Jacksonville West • Lake City • Milton • Ocala • Orlando • Palatka • Panama City • Pensacola • Starke • St. Augustine • Tallahassee • Winter Haven • Leesburg • Kissimmee •





• Engineering  
• Geotechnical  
• Environmental  
Laboratories

## Cal-Tech Testing, Inc.

P.O. Box 1625 • Lake City, FL 32056-1625 • Tel(386)755-3633 • Fax(386)752-5456

450 SR 13 N., Suite 208, #308, Jacksonville, FL 32259 • Tel(904)381-8901 • Fax(904)381-8902

JOB NO.: 13-00066-01

## REPORT OF IN-PLACE DENSITY TEST

DATE TESTED: 2/12/13

DATE REPORTED: 2/18/13

PROJECT:	Vacant Lot #154 Emerald Lakes Estates	
CLIENT:	Plumb Level Construction, 232 Chadley Lane, Lake City, Florida 32055	
GENERAL CONTRACTOR:	Plumb Level Construction	
EARTHWORK CONTRACTOR:	Plumb Level Construction	
INSPECTOR:	C. Day	
ASTM METHOD		SOIL USE
(D-6938) Nuclear		BUILDING FILL
SPECIFIED REQUIREMENTS: 95%		

TEST NO.	TEST LOCATION	TEST DEPTH	WET DENSITY (lb/ft <sup>3</sup> )	MOISTURE PERCENT	DRY DENSITY (lb/ft <sup>3</sup> )	PROCTOR TEST NO.	PROCTOR VALUE	MAXIMUM DENSITY
1	Southeast Corner 12' West, 10' North	0-12"	115.6	4.9	110.2	1	112.0	98%
2	Southwest Corner 15' East, 15' North	0-12"	116.7	5.2	110.9	1	112.0	99%
3	Approximate Center of Northside 10' South	0-12"	115.0	4.3	110.3	1	112.0	98%

### REMARKS:

The Above Tests Meet Specified Requirements.

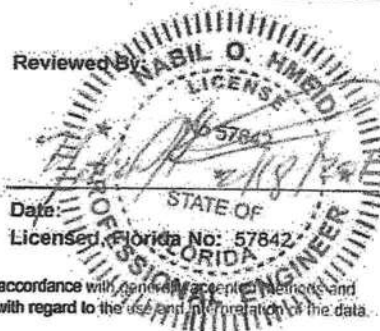
PROCTORS				
PROCTOR NO.	SOIL DESCRIPTION	MAXIMUM DRY UNIT WEIGHT (lb/ft <sup>3</sup> )	OPT. MOIST.	TYPE
1	Gray Fine Sand (Refer to: CTI Job No.: 10-00261-01, Brown Property Pit)	112.0	10.0	MODIFIED (ASTM D-1557)

Respectfully Submitted,  
CAL-TECH TESTING, INC.

*Linda M. Creamer, CEO, DBE*

Linda M. Creamer  
President - CEO

Reviewed By



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