

DATE 03/18/2009

## Columbia County Building Permit

PERMIT

This Permit Must Be Prominently Posted on Premises During Construction

000027697

APPLICANT JOSHUA SPARKS PHONE 755-9314  
ADDRESS 202 W DUVAL ST LAKE CITY FL 32055  
OWNER FRANK & VALARIE THOMAS PHONE 239 273-1007  
ADDRESS 249 SW OAK GLEN VE FT. WHITE FL 32038  
CONTRACTOR JOSHUA SPARKS PHONE 755-9314  
LOCATION OF PROPERTY 47S,TL 27,TR 138, TL WOODLAND AVE,TO MOONSET,CODE 014208,  
TL OAK GLEN, 2ND LOT ON LEFT  
TYPE DEVELOPMENT SFD,UTILITY ESTIMATED COST OF CONSTRUCTION 245000.00  
HEATED FLOOR AREA 3105.00 TOTAL AREA 4900.00 HEIGHT STORIES 1  
FOUNDATION CONC WALLS FRAMED ROOF PITCH 8/12 FLOOR SLAB  
LAND USE & ZONING A-3 MAX. HEIGHT  
Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00  
NO. EX.D.U. 0 FLOOD ZONE X DEVELOPMENT PERMIT NO.

PARCEL ID 31-7S-17-10070-114 SUBDIVISION BLUE BIRD LANDING  
LOT 14 BLOCK PHASE .00 UNIT 0 TOTAL ACRES 10.06

CBC1252260

Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor  
PRIVATE 09-116 BK RJ Y  
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: IF COOKING FACILITIES ARE IN EXISTING STRUCTURE, NEED TO BE  
REMOVED AT TIME OF CO BEING ISSUED, ONE FOOT ABOVE THE ROAD

Check # or Cash 5115

## FOR BUILDING &amp; ZONING DEPARTMENT ONLY

(footer/Slab)

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

BUILDING PERMIT FEE \$ 1225.00 CERTIFICATION FEE \$ 24.50 SURCHARGE FEE \$ 24.50  
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 \$ TOTAL FEE 1349.00  
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. AND THERE MAY BE ADDITIONAL PERMITS REQUIRED  
FROM OTHER GOVERNMENTAL ENTITIES SUCH AS WATER MANAGEMENT DISTRICTS, STATE AGENCIES, OR FEDERAL AGENCIES.

"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.

# Columbia County Building Permit Application

<b>For Office Use Only</b>		Application #	0903-20	Date Received		By		Permit #	27697-
Zoning Official	BLK	Date	1/20/07	Flood Zone	X	Land Use	A-3	Zoning	A-3
FEMA Map #	N/A	Elevation	N/A	MFE	1802	River	N/A	Plans Examiner	
Comments <i>If cooking facilities are in existing structure need to be removed at time of CO being issued</i>									
<input type="checkbox"/> NOC	<input checked="" type="checkbox"/> EH	<input type="checkbox"/> Deed or PA	<input checked="" type="checkbox"/> Site Plan	<input type="checkbox"/> State Road Info	<input type="checkbox"/> Parent Parcel #				
<input type="checkbox"/> Dev Permit #		<input type="checkbox"/> In Floodway	<input checked="" type="checkbox"/> Letter of Auth. from Contractor	<input type="checkbox"/> F W Comp. letter					
IMPACT FEES: EMS			Fire		Corr	Road Code EMO			
School			= TOTAL						





## Columbia County Building Permits Application

Application # 0903-20CK# 5115

3/14/08

Property ID Number	<u>31-75-17-10070-114</u>	Septic Permit No.	<u>09-0116-N</u>
Subdivision Name	<u>Blue bird landing</u>	Lot	<u>14</u> Block _____ Unit _____ Phase _____
Construction of	<u>New house</u>	Cost of Construction	<u>260,000.-</u>
Mobile Home Permit - New or Used (Circle One)	_____	Year	_____ Length _____ Width _____
Name of the Authorized Person Signing the Permit	<u>Rosy Sparks</u>		
Phone	<u>386-758-9235</u>	Fax	_____
Address	<u>130 sw County Ct lake city Fl 32024</u>		
Owners Name	<u>Frank + Valarie Thomas</u>	Phone	<u>1-239-273-1007</u>
911 Address	<u>279 Sw Oak Cln. Fort White Fl 32038</u>		
Relationship to Property Owner	<u>Builder</u>	Is this Home Replacing an Existing Home	<u>no</u>
Contractors Name	<u>Joshua David Sparks</u>	Phone	<u>386-755-9314</u>
Company Name	<u>Sparks Construction</u>	Fax	<u>386-755-7156</u>
Address	<u>202 w Duval st lake city Fl 32055</u>		
Fee Simple Owner Name & Address	<u>Frank + Valarie Thomas</u>		
Bonding Co. Name & Address	<u>N/A</u>		
Architect/Engineer Name & Address	<u>Mark Disoway Engineering 386-754-5419</u>		
Mortgage Lenders Name & Address	<u>N/A</u>		
Driving Directions to the Property	<u>From 47 south to Ft. White, LT onto 27 to RT (moonset Glen) onto 138 to LT onto Sw Woodland Ave, straight ahead is bluebird land, Code on gate hit the key symbol 014203 turn left on the first road on the left Sw Glen, go down a little you will see a black fence on the left side w/B</u>		
Lot Size	<u>10.06</u>	Total Acreage	<u>10.06</u> Building across lot numbers <u>2nd lot on left</u>
Actual Distance of Structure from Property Lines - Front/Road	<u>150</u>	Left Side	<u>135</u> Right Side <u>34.36</u> Rear <u>440</u>
Number of Stories	<u>1.5</u>	Heated Floor Area	<u>3105</u> Total Floor Area <u>4900</u> Roof Pitch <u>8/12</u>
Circle the correct power company -	FL Power & Light - <u>Clay Elec</u> - Suwannee Valley Elec. Progress Energy - Slash Pine Electric		
Do you currently have an:	Existing Drive or <u>Private Drive</u> or need a Culvert Permit or <u>Culvert Waiver</u> (Currently using) (Blue Road Sign) (Putting in a Culvert) (No Culvert but do not need a Culvert)		

① Owners signature on back form.





**TIME LIMITATIONS OF APPLICATIONS:** 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.

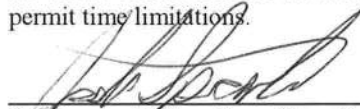
**WARNING TO OWNER:** YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

**OWNERS CERTIFICATION:** I hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws and regulating construction and zoning. I further understand the above written responsibilities in Columbia County for obtaining this Building Permit.

✱

\_\_\_\_\_  
Owners Signature

**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)

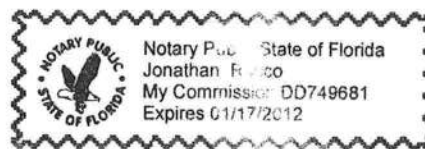
Contractor's License Number CBC1252260  
Columbia County  
Competency Card Number \_\_\_\_\_

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 11 day of March 2009.

Personally known \_\_\_\_\_ or Produced Identification \_\_\_\_\_

  
\_\_\_\_\_  
State of Florida Notary Signature (For the Contractor)

SEAL:





Permit # 27697

**To:** Brian Kepner**From:** MyFax - Frank Thomas**Fax:** 13867582160**Pages:** 2**Re:** Attached Letter**Date:** Sep 25, 2009

---

**Urgent X For Review Please Comment Please Reply For Information**

---

**• Comments:**

Brian: Find attached a letter concerning the status of the kitchen at the barn on my property at 249 SW Oak Glen, in Fort White. This is the letter that Josh at Sparks Construction indicated that you needed.

Thanks: Frank Thomas  
239-273-1007  
fthomas11@windstream.net



**TIME LIMITATIONS OF APPLICATIONS:** 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 hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws and regulating construction and zoning. I further understand the above written responsibilities in Columbia County for obtaining this Building Permit.

Frank Thomas  
Owners Signature

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

[Signature]  
Contractor's Signature (Permitee)

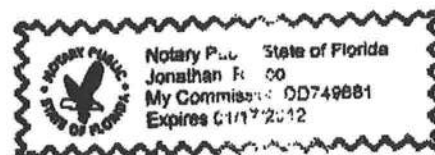
Contractor's License Number CBC1252260  
Columbia County  
Competency Card Number \_\_\_\_\_

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 11 day of March 2009

Personally known or Produced Identification \_\_\_\_\_

Jonathan Rocco  
State of Florida Notary Signature (For the Contractor)

SEAL:





27697

## NOTICE OF COMMENCEMENT

Tax Parcel Identification Number 31-75-17-10070-114 County Clerk's Office Stamp or Seal

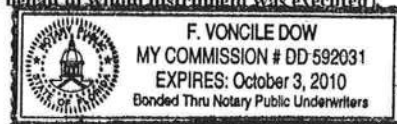
THE UNDERSIGNED hereby gives notice that improvements will be made to certain real property, and in accordance with Section 713.13 of the Florida Statutes, the following information is provided in this NOTICE OF COMMENCEMENT.

1. Description of property (legal description): 31-75-17-10070-114  
 a) Street (job) Address: 249 SW Oak Glen Fort White FL 32938
2. General description of improvements: Single family
3. Owner Information  
 a) Name and address: Frank Thomas  
 b) Name and address of fee simple titleholder (if other than owner) NA  
 c) Interest in property Home Site
4. Contractor Information  
 a) Name and address: Sparks Construction 202 W Duval St Lake City FL 32054  
 b) Telephone No.: 386-755-9314 Fax No. (Opt.) 386-755-7156
5. Surety Information  
 a) Name and address: NA  
 b) Amount of Bond: NA  
 c) Telephone No.: \_\_\_\_\_ Fax No. (Opt.) \_\_\_\_\_
6. Lender  
 a) Name and address: NA  
 b) Phone No.: \_\_\_\_\_
7. Identity of person within the State of Florida designated by owner upon whom notices or other documents may be served:  
 a) Name and address: NA  
 b) Telephone No.: \_\_\_\_\_ Fax No. (Opt.) \_\_\_\_\_
8. In addition to himself, owner designates the following person to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b).  
 Florida Statutes:  
 a) Name and address: NA  
 b) Telephone No.: \_\_\_\_\_ Fax No. (Opt.) \_\_\_\_\_
9. Expiration date of Notice of Commencement (the expiration date is one year from the date of recording unless a different date is specified): \_\_\_\_\_

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

STATE OF FLORIDA  
COUNTY OF COLUMBIA10. Frank Thomas  
Signature of Owner or Owner's Authorized Office/Director/Partner/ManagerFrank Thomas  
Print NameThe foregoing instrument was acknowledged before me, a Florida Notary, this 19th day of March, 2009, by:Frank Thomas as \_\_\_\_\_ (type of authority, e.g. officer, trustee, attorney fact) for Frank Thomas (name of party on behalf of whom instrument was executed)

Personally Known \_\_\_\_\_ OR Produced Identification \_\_\_\_\_ Type \_\_\_\_\_

Notary Signature F. Vancile Dow Notary Stamp or Seal:

-AND-

11. Verification pursuant to Section 92.525, Florida Statutes. Under penalties of perjury, I declare that I have read the foregoing and that the facts stated in it are true to the best of my knowledge and belief.

[Signature]  
Signature of Natural Person Signing (in line #10 above.)



# Columbia County Building Permits Application

Application # 0903-20

**TIME LIMITATIONS OF APPLICATIONS:** 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 hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws and regulating construction and zoning. I further understand the above written responsibilities in Columbia County for obtaining this Building Permit.

[Signature]  
Owner's Signature

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

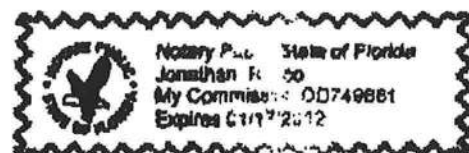
[Signature]  
Contractor's Signature (Permittee)

Contractor's License Number CBC1252260  
Columbia County  
Competency Card Number \_\_\_\_\_

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 11 day of March, 2009.  
Personally known \_\_\_\_\_ or Produced Identification \_\_\_\_\_

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

SEAL:





# Columbia County Property Appraiser

DB Last Updated: 3/5/2009

## 2009 Preliminary Values

Tax Record

Property Card

Interactive GIS Map

Print

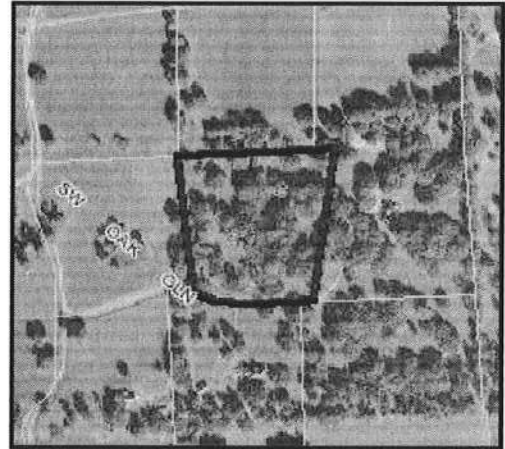
Parcel: 31-7S-17-10070-114

Search Result: 1 of 1

### Owner & Property Info

<b>Owner's Name</b>	THOMAS FRANK C & VALARIE A		
<b>Site Address</b>	OAK		
<b>Mailing Address</b>	20720 GROVELINE CT ESTERO, FL 339280541		
<b>Use Desc. (code)</b>	SINGLE FAM (000100)		
<b>Neighborhood</b>	31717.02	<b>Tax District</b>	3
<b>UD Codes</b>	MKTA02	<b>Market Area</b>	02
<b>Total Land Area</b>	10.060 ACRES		
<b>Description</b>	LOT 14 BLUEBIRD LANDING UNREC: COMM NE COR OF NW1/4, RUN E 50.03 FT, S 1392.44 FT FOR POB, RUN N 87 DEG E 725.23 FT, S 7 DEG W 712.57 FT, S 87 DEG W 301.36 FT, N 89 DEG W 142.06 FT, N 66 DEG W 199.99 FT, N 6 DEG W 640.24 FT TO POB. ORB 918-1231, 951-240,		

### GIS Aerial



### Property & Assessment Values

<b>Mkt Land Value</b>	cnt: (1)	\$181,080.00
<b>Ag Land Value</b>	cnt: (0)	\$0.00
<b>Building Value</b>	cnt: (1)	\$122,033.00
<b>XFOB Value</b>	cnt: (1)	\$896.00
<b>Total Appraised Value</b>		\$304,009.00

<b>Just Value</b>	\$304,009.00
<b>Class Value</b>	\$0.00
<b>Assessed Value</b>	\$304,009.00
<b>Exempt Value</b>	\$0.00
<b>Total Taxable Value</b>	\$304,009.00

### Sales History

Sale Date	Book/Page	Inst. Type	Sale VImp	Sale Qual	Sale RCode	Sale Price
4/15/2002	951/240	WD	V	Q		\$97,000.00
12/31/1998	872/550	WD	V	U	01	\$0.00

### Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
1	SINGLE FAM (000100)	2004	Vinyl Side (31)	984	2840	\$122,033.00
<b>Note:</b> All S.F. calculations are based on exterior building dimensions.						

### Extra Features & Out Buildings

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
0166	CONC,PAVMT	2004	\$896.00	448.000	14 x 32 x 0	(.00)

### Land Breakdown

Lnd Code	Desc	Units	Adjustments	Eff Rate	Lnd Value
000100	SFR (MKT)	10.060 AC	1.00/1.00/1.00/1.00	\$18,000.00	\$181,080.00

Columbia County Property Appraiser

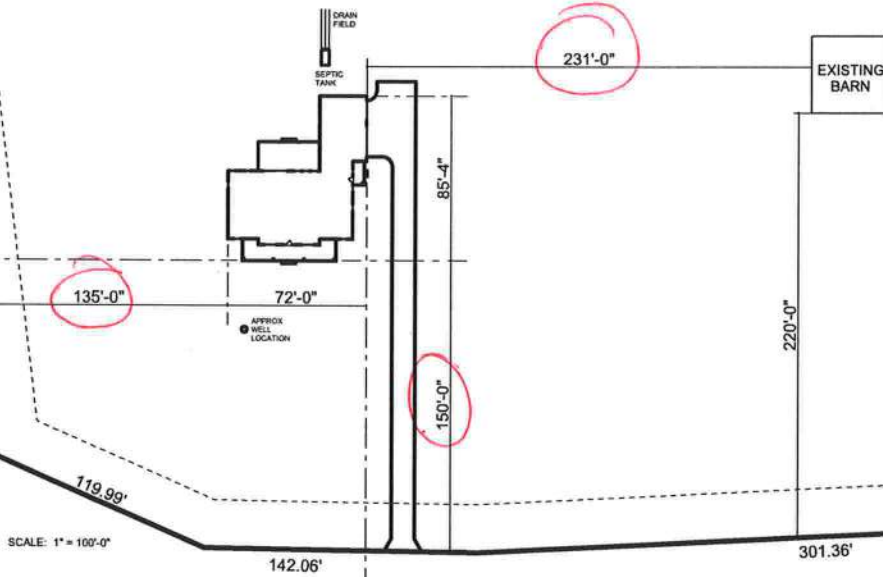
DB Last Updated: 3/5/2009

725.23'

SPARKS CONSTRUCTION  
FRANK THOMAS  
LOT 14, BLUEBIRD LANDING  
COLUMBIA COUNTY, FL

640.24'

712.57'

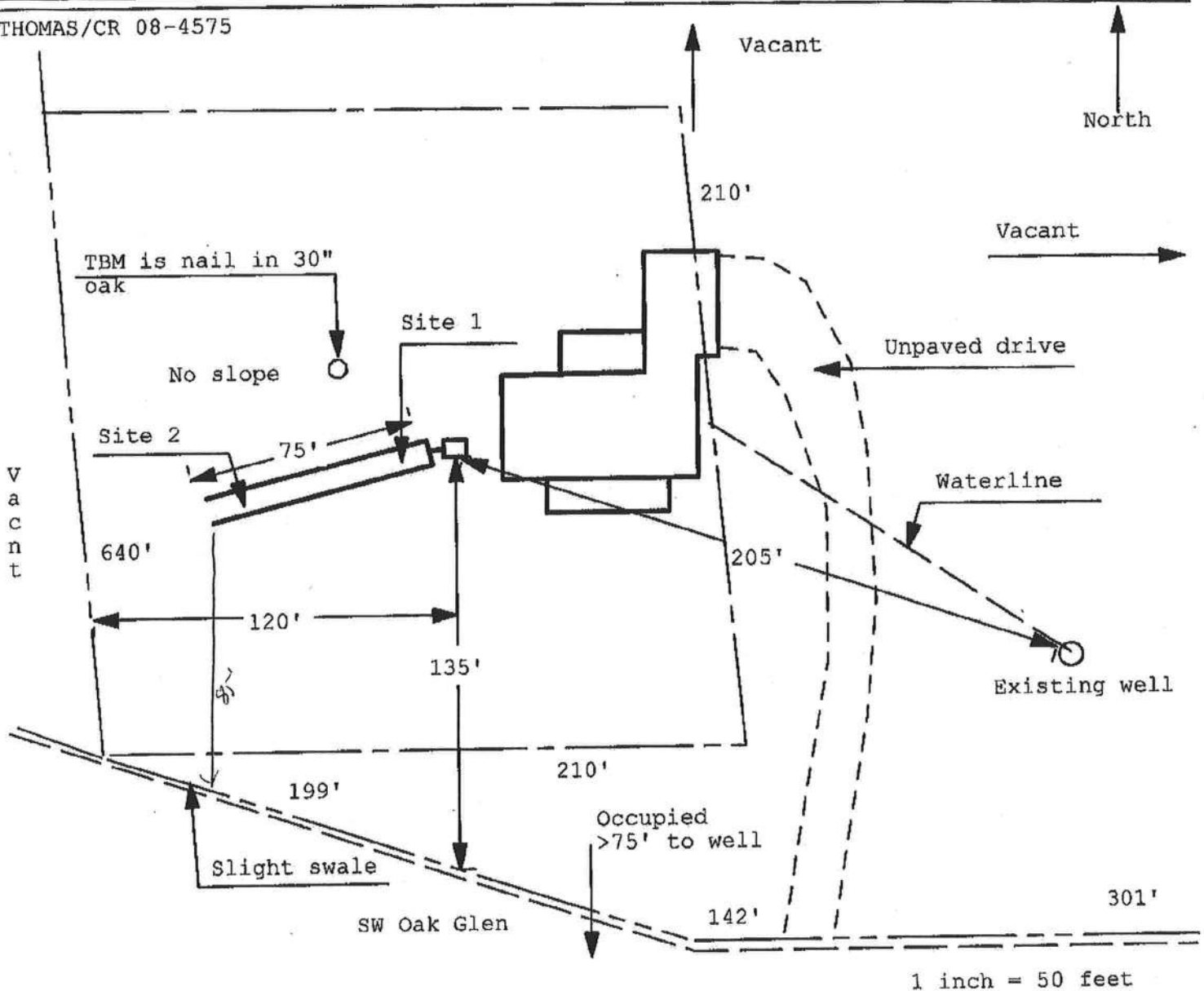




**Application for Onsite Sewage Disposal System  
Construction Permit. Part II Site Plan**  
Permit Application Number: 09-0116

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

THOMAS/CR 08-4575



Site Plan Submitted By Paul L. [Signature]

Plan Approved ☒ Not Approved ☐

Date 3-4-09

Date 2/25/09

By Mon A. [Signature] Columbia CPHU

Notes: \_\_\_\_\_

STATE OF FLORIDA  
DEPARTMENT OF HEALTH AND REHABILITATIVE SERVICES  
ONSITE SEWAGE DISPOSAL SYSTEM  
CONSTRUCTION PERMIT  
Authority: Chapter 381, FS & Chapter 10D-6, FAC

PERMIT #  
DATE PAID  
FEE PAID \$  
RECEIPT #  
CR #

09-0114  
913009  
2/21/09  
310.00  
1101623  
08-4575

CONSTRUCTION PERMIT FOR:

[X] New System [ ] Existing System [ ] Holding Tank [ ] Temporary/Experimental System  
[ ] Repair [ ] Abandonment [ ] Other (Specify) \_\_\_\_\_

APPLICANT: FRANK & VALARIE THOMAS

AGENT: SPARKS CONSTRUCTION

PROPERTY STREET ADDRESS: SW OAK GLEN

LOT: \_\_\_\_\_ BLOCK: \_\_\_\_\_ SUBDIVISION: MEETS & BOUNDS

PROPERTY ID #: 31-7S-17-10070-114 [SECTION/TOWNSHIP/RANGE/PARCEL NO.]  
[OR TAX ID NUMBER]

=====

SYSTEM MUST BE CONSTRUCTED IN ACCORDANCE WITH SPECIFICATIONS AND STANDARDS OF CHAPTER 10D-6, FAC  
REPAIR PERMITS AND HOLDING TANK PERMITS EXPIRE 90 DAYS FROM THE DATE OF ISSUE. ALL OTHER PERMITS  
EXPIRE 18 MONTHS FROM THE DATE OF ISSUE. HRS APPROVAL OF SYSTEM DOES NOT GUARANTEE SATISFACTORY  
PERFORMANCE FOR ANY SPECIFIC PERIOD OF TIME. ANY CHANGE IN MATERIAL FACTS WHICH SERVED AS A  
BASIS FOR ISSUANCE OF THIS PERMIT, REQUIRE THE APPLICANT TO MODIFY THE PERMIT APPLICATION. SUCH  
MODIFICATIONS MAY RESULT IN THIS PERMIT BEING MADE NULL AND VOID.

=====

SYSTEM DESIGN AND SPECIFICATIONS

T [ 1,050 ] [GALLONS / GPD] SEPTIC TANK CAPACITY MULTI-CHAMBERED/IN SERIES: [ ]  
A [ ] [GALLONS / GPD] CAPACITY MULTI-CHAMBERED/IN SERIES: [ ]  
N [ 0 ] GALLONS GREASE INTERCEPTOR CAPACITY [MAXIMUM CAPACITY SINGLE TANK: 1250 GALLONS]  
K [ ] GALLONS PER DOSE DOSING TANK CAPACITY DOSE RATE [N] PER 24 HRS NO. OF PUMPS: [N]  
(445)  
D [ 444.4 ] SQUARE FEET PRIMARY DRAINFIELD SYSTEM  
R [ ] SQUARE FEET SYSTEM  
A TYPE SYSTEM: [X] STANDARD [ ] FILLED [ ] MOUND [ ]  
I CONFIGURATION: [X] TRENCH [ ] BED [ ]  
N  
F LOCATION OF BENCHMARK: NAIL IN 30" OAK TREE NORTH OF SYSTEM SITE  
I ELEVATION OF PROPOSED SYSTEM SITE IS [ 24 ] INCHES BELOW BENCHMARK/REFERENCE POINT  
E BOTTOM OF DRAINFIELD TO BE [ 54 ] INCHES BELOW BENCHMARK/REFERENCE POINT  
L  
D FILL REQUIRED: [ 0 ] INCHES EXCAVATION REQUIRED: [ 0.0 ] INCHES

O  
T  
H  
E  
R

SPECIFICATIONS BY: Paul Lloyd TITLE: Soil Scientist

APPROVED BY: M. J. J. J. TITLE: Env. Manager COLUMBIA CPNU

DATE ISSUED: 3-4-09

EXPIRATION DATE: 9-4-10



STATE OF FLORIDA  
DEPARTMENT OF HEALTH AND REHABILITATIVE SERVICES  
ONSITE SEWAGE DISPOSAL SYSTEM  
APPLICATION FOR CONSTRUCTION PERMIT  
Authority: Chapter 381, FS & Chapter 10D-6, FAC

09-0116-N  
PERMIT # 913009  
DATE PAID 2/21/09  
FEE PAID \$ 310.00  
RECEIPT # 1101663  
CR # 08-4575

APPLICATION FOR

☒ New System ☐ Existing System ☐ Holding Tank ☐ Temporary/Experimental System  
☐ Repair ☐ Abandonment ☐ Other (Specify) \_\_\_\_\_

APPLICANT: FRANK & VALARIE THOMAS

TELEPHONE: 386-758-9235

AGENT: SPARKS CONSTRUCTION

(386) 623-7876 (Rose)

MAILING ADDRESS: 163 SW MIDTOWN PLACE CITY: LAKE CITY STATE: FL ZIP: 32025

TO BE COMPLETED BY APPLICANT OR APPLICANT'S AUTHORIZED AGENT. ATTACH BUILDING PLAN AND TO-SCALE SITE PLAN SHOWING PERTINENT FEATURES REQUIRED BY CHAPTER 10D-6, FLORIDA ADMINISTRATIVE CODE.

PROPERTY INFORMATION [IF LOT IS NOT IN A RECORDED SUBDIVISION, ATTACH LEGAL DESCRIPTION OR DEED]

LOT: 14 BLOCK: N/4 SUBDIVISION: Blue Bird Landing Unit MEETS & BOUNDS 0 DATESUBD: N/A

PROPERTY ID #: 31-7S-17-10070-114 [Section/Township/Range/Parcel] ZONING: AS

PROPERTY SIZE: 10.06 ACRES [Sqft/43560] PROPERTY WATER SUPPLY: ☒ PRIVATE ☐ PUBLIC

PROPERTY STREET ADDRESS: SW OAK GLEN

DIRECTIONS TO PROPERTY: STATE ROAD 47 SOUTH TO FT WHITE, TL ON STATE ROAD 27, TR ON COUNTY ROAD 138, TL ON SW WOODLAND, STRAIGHT INTO BLUE BIRD LANDING, TL ON SW OAK GLEN, ON LEFT AT BLACK FENCE

BUILDING INFORMATION ☒ RESIDENTIAL ☐ COMMERCIAL

Unit No	Type of Establishment	No. of Bedrooms	Building Area Sqft	# Persons Served	Business Activity For Commercial Only
1	<u>HOUSE</u>	<u>4</u>	<u>3140</u>	<u>4</u>	<u>400 GPP</u>
2	_____	_____	_____	_____	_____
3	_____	_____	_____	_____	_____
4	_____	_____	_____	_____	_____

☐ Garbage Grinders/Disposals

☐ Ultra-low Volume Flush Toilets

☐ Spas/Hot Tubs

☐ Other (Specify) \_\_\_\_\_

☐ Floor/Equipment Drains

APPLICANT'S SIGNATURE: [Signature]

DATE: 2/25/09

# FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

## Florida Department of Community Affairs Residential Whole Building Performance Method A

Project Name:	<b>Thomas Residence</b>	Builder:	<b>Sparks Construction</b>
Address:	<b>Lot: 14, Sub: Bluebird Land'g, Plat:</b>	Permitting Office:	<b>Columbia County</b>
City, State:	<b>Lake City, FL 32055-</b>	Permit Number:	
Owner:	<b>Frank Thomas</b>	Jurisdiction Number:	<b>221000</b>
Climate Zone:	<b>North</b>		

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 56.5 kBtu/hr
3. Number of units, if multi-family	1		SEER: 13.00
4. Number of Bedrooms	4	b. N/A	
5. Is this a worst case?	No	c. N/A	
6. Conditioned floor area (ft²)	3105 ft²		
7. Glass type <sup>1</sup> and area: (Label reqd. by 13-104.4.5 if not default)		13. Heating systems	
a. U-factor:	Description Area	a. Electric Heat Pump	Cap: 56.5 kBtu/hr
(or Single or Double DEFAULT) 7a. (Dble Default)	299.3 ft²		HSPF: 7.70
b. SHGC:		b. N/A	
(or Clear or Tint DEFAULT) 7b. (Clear)	299.3 ft²	c. N/A	
8. Floor types		14. Hot water systems	
a. Slab-On-Grade Edge Insulation	R=5.0, 223.5(p) ft	a. Electric Resistance	Cap: 80.0 gallons
b. N/A			EF: 0.90
c. N/A		b. N/A	
9. Wall types		c. Conservation credits	
a. Frame, Wood, Exterior	R=13.0, 1292.7 ft²	(HR-Heat recovery, Solar	
b. Frame, Wood, Adjacent	R=13.0, 325.0 ft²	DHP-Dedicated heat pump)	
c. N/A		15. HVAC credits	PT,
d. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
e. N/A		HF-Whole house fan,	
10. Ceiling types		PT-Programmable Thermostat,	
a. Under Attic	R=30.0, 3415.0 ft²	MZ-C-Multizone cooling,	
b. N/A		MZ-H-Multizone heating)	
c. N/A			
11. Ducts(Leak Free)			
a. Sup: Unc. Ret: Unc. AH: Attic	Sup. R=6.0, 310.5 ft		
b. N/A			

Glass/Floor Area: 0.10

Total as-built points: 32074

Total base points: 37718

**PASS**

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

PREPARED BY: [Signature]

DATE: 3/11/09

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

OWNER/AGENT: \_\_\_\_\_

DATE: \_\_\_\_\_

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



BUILDING OFFICIAL: \_\_\_\_\_

DATE: \_\_\_\_\_

<sup>1</sup> Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.



# SUMMER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 14, Sub: Bluebird Land'g, Plat: , Lake City, FL, 32055-

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES											
.18 X Conditioned X BSPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt		Area X SPM X SOF = Points				
.18	3105.0	18.59	10390.0	1.Double, Clear	E	9.0	1.5	13.3	42.06	0.36	200.0
				2.Double, Clear	E	9.5	1.5	60.0	42.06	0.36	900.0
				3.Double, Clear	E	1.5	5.5	30.0	42.06	0.90	1130.0
				4.Double, Clear	S	1.5	5.5	15.0	35.87	0.83	447.0
				5.Double, Clear	W	1.5	5.5	20.0	38.52	0.90	691.0
				6.Double, Clear	W	12.0	7.3	80.0	38.52	0.43	1333.0
				7.Double, Clear	W	12.0	5.5	45.0	38.52	0.40	694.0
				8.Double, Clear	N	7.0	3.5	6.0	19.20	0.62	71.0
				9.Double, Clear	N	1.5	5.5	30.0	19.20	0.93	534.0
				As-Built Total:				299.36000.0			
WALL TYPES Area X BSPM = Points				Type	R-Value		Area X SPM = Points				
Adjacent	325.0	0.70	227.5	1. Frame, Wood, Exterior		13.0	1292.7	1.50		1939.0	
Exterior	1292.7	1.70	2197.6	2. Frame, Wood, Adjacent		13.0	325.0	0.60		195.0	
Base Total: 1617.72425.1				As-Built Total: 1617.7				2134.1			
DOOR TYPES Area X BSPM = Points				Type			Area X SPM = Points				
Adjacent	20.0	2.40	48.0	1.Exterior Insulated			40.0	4.10		164.0	
Exterior	40.0	6.10	244.0	2.Adjacent Insulated			20.0	1.60		32.0	
Base Total: 60.0292.0				As-Built Total: 60.0				196.0			
CEILING TYPES Area X BSPM = Points				Type	R-Value		Area X SPM X SCM = Points				
Under Attic	3105.0	1.73	5371.6	1. Under Attic		30.0	3415.0	1.73 X 1.00		5908.0	
Base Total: 3105.05371.6				As-Built Total: 3415.0				5908.0			
FLOOR TYPES Area X BSPM = Points				Type	R-Value		Area X SPM = Points				
Slab	223.5(p)	-37.0	-8269.5	1. Slab-On-Grade Edge Insulation		5.0	223.5(p)	-36.20		-8090.7	
Raised	0.0	0.00	0.0								
Base Total: -8269.5				As-Built Total: 223.5				-8090.7			
INFILTRATION Area X BSPM = Points						Area X SPM = Points					
3105.010.2131702.1						3105.010.2131702.1					

**SUMMER CALCULATIONS****Residential Whole Building Performance Method A - Details**

ADDRESS: Lot: 14, Sub: Bluebird Land'g, Plat: , Lake City, FL, 32055-

PERMIT #:

BASE				AS-BUILT						
<b>Summer Base Points: 41911.3</b>				<b>Summer As-Built Points: 37849.4</b>						
Total Summer Points	X System Multiplier	=	Cooling Points	Total Component (System - Points)	X Cap Ratio (DM x DSM x AHU)	X Duct Multiplier	X System Multiplier	X Credit Multiplier	=	Cooling Points
				(sys 1: Central Unit 56500btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Att(AH),R6.0(INS)						
41911.3	0.3250		13621.2	37849	1.00	(1.09 x 1.000 x 1.11)	0.260	0.950		11311.1
				<b>37849.4</b>	<b>1.00</b>	<b>1.210</b>	<b>0.260</b>	<b>0.950</b>		<b>11311.1</b>



**WINTER CALCULATIONS****Residential Whole Building Performance Method A - Details**

ADDRESS: Lot: 14, Sub: Bluebird Land'g, Plat: , Lake City, FL, 32055-

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned X BWPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt Area X WPM X WOF = Points						
.18	3105.0	20.17	11273.0	1.Double, Clear	E	9.0	1.5	13.3	18.79	1.51	377.0
				2.Double, Clear	E	9.5	1.5	60.0	18.79	1.51	1699.0
				3.Double, Clear	E	1.5	5.5	30.0	18.79	1.04	587.0
				4.Double, Clear	S	1.5	5.5	15.0	13.30	1.15	228.0
				5.Double, Clear	W	1.5	5.5	20.0	20.73	1.03	426.0
				6.Double, Clear	W	12.0	7.3	80.0	20.73	1.21	2009.0
				7.Double, Clear	W	12.0	5.5	45.0	20.73	1.23	1143.0
				8.Double, Clear	N	7.0	3.5	6.0	24.58	1.03	151.0
				9.Double, Clear	N	1.5	5.5	30.0	24.58	1.00	739.0
				As-Built Total:			299.3			7359.0	
WALL TYPES Area X BWPM = Points				Type	R-Value			Area X	WPM	=	Points
Adjacent	325.0	3.60	1170.0	1. Frame, Wood, Exterior	13.0			1292.7	3.40		4395.2
Exterior	1292.7	3.70	4783.0	2. Frame, Wood, Adjacent	13.0			325.0	3.30		1072.5
Base Total:				1617.7			5953.0				
				As-Built Total:			1617.7			5467.7	
DOOR TYPES Area X BWPM = Points				Type				Area X	WPM	=	Points
Adjacent	20.0	11.50	230.0	1.Exterior Insulated				40.0	8.40		336.0
Exterior	40.0	12.30	492.0	2.Adjacent Insulated				20.0	8.00		160.0
Base Total:				60.0			722.0				
				As-Built Total:			60.0			496.0	
CEILING TYPES Area X BWPM = Points				Type	R-Value			Area X	WPM X WCM	=	Points
Under Attic	3105.0	2.05	6365.3	1. Under Attic	30.0			3415.0	2.05 X 1.00		7000.8
Base Total:				3105.0			6365.3				
				As-Built Total:			3415.0			7000.8	
FLOOR TYPES Area X BWPM = Points				Type	R-Value			Area X	WPM	=	Points
Slab	223.5(p)	8.9	1989.1	1. Slab-On-Grade Edge Insulation	5.0			223.5(p)	7.60		1698.6
Raised	0.0	0.00	0.0								
Base Total:				1989.1			223.5			1698.6	
				As-Built Total:			223.5			1698.6	
INFILTRATION Area X BWPM = Points							Area X	WPM	=	Points	
	3105.0	-0.59	-1831.9				3105.0	-0.59		-1831.9	

## Residential Whole Building Performance Method A - Details

PERMIT #:

BASE			AS-BUILT					
Winter Base Points: 24470.4			Winter As-Built Points: 20190.1					
Total Winter Points	X System Multiplier	= Heating Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points
24470.4	0.5540	13556.6	(sys 1: Electric Heat Pump 56500 btuh ,EFF(7.7) Ducts:Unc(S),Unc(R),Att(AH),R6.0 20190.1 1.000 (1.069 x 1.000 x 1.10) 0.443 0.950 9988.4 <b>20190.1 1.00 1.176 0.443 0.950 9988.4</b>					



# WATER HEATING & CODE COMPLIANCE STATUS

## Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 14, Sub: Bluebird Land'g, Plat: , Lake City, FL, 32055-

PERMIT #:

BASE				AS-BUILT						
<b>WATER HEATING</b>										
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X Tank Ratio	X Multiplier	X Credit Multiplier	= Total
4		2635.00	10540.0	80.0	0.90	4	1.00	2693.56	1.00	10774.2
				As-Built Total:						10774.2

CODE COMPLIANCE STATUS									
BASE				AS-BUILT					
Cooling Points	+	Heating Points	+ Hot Water Points	= Total Points	Cooling Points	+	Heating Points	+ Hot Water Points	= Total Points
13621		13557	10540	37718	11311		9988	10774	32074

PASS



# Code Compliance Checklist

## Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 14, Sub: Bluebird Land'g, Plat: , Lake City, FL, 32055-

PERMIT #:

**6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST**

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	606.1.ABC.1.1	Maximum: .3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	
Exterior & Adjacent Walls	606.1.ABC.1.2.1	Caulk, gasket, weatherstrip or seal between: windows/doors & frames, surrounding wall; foundation & wall sole or sill plate; joints between exterior wall panels at corners; utility penetrations; between wall panels & top/bottom plates; between walls and floor. EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate.	
Floors	606.1.ABC.1.2.2	Penetrations/openings >1/8" sealed unless backed by truss or joint members. EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.	
Ceilings	606.1.ABC.1.2.3	Between walls & ceilings; penetrations of ceiling plane of top floor; around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate; attic access. EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams.	
Recessed Lighting Fixtures	606.1.ABC.1.2.4	Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation; or Type IC rated with < 2.0 cfm from conditioned space, tested.	
Multi-story Houses	606.1.ABC.1.2.5	Air barrier on perimeter of floor cavity between floors.	
Additional Infiltration reqts	606.1.ABC.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	

**6A-22 OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)**

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	612.1	Comply with efficiency requirements in Table 612.1.ABC.3.2. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	612.1	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%.	
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	604.1, 602.1	Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	



Tested sealed ducts must be certified in this house.

# ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

**ESTIMATED ENERGY PERFORMANCE SCORE\* = 87.3**

**The higher the score, the more efficient the home.**

Frank Thomas, Lot: 14, Sub: Bluebird Land'g, Plat: , Lake City, FL, 32055-

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 56.5 kBtu/hr
3. Number of units, if multi-family	1		SEER: 13.00
4. Number of Bedrooms	4	b. N/A	
5. Is this a worst case?	No	c. N/A	
6. Conditioned floor area (ft <sup>2</sup> )	3105 ft <sup>2</sup>		
7. Glass type <sup>1</sup> and area: (Label reqd. by 13-104.4.5 if not default)		13. Heating systems	
a. U-factor:	Description Area	a. Electric Heat Pump	Cap: 56.5 kBtu/hr
(or Single or Double DEFAULT)	7a. (Dble Default) 299.3 ft <sup>2</sup>		HSPF: 7.70
b. SHGC:		b. N/A	
(or Clear or Tint DEFAULT)	7b. (Clear) 299.3 ft <sup>2</sup>	c. N/A	
8. Floor types		14. Hot water systems	
a. Slab-On-Grade Edge Insulation	R=5.0, 223.5(p) ft	a. Electric Resistance	Cap: 80.0 gallons
b. N/A		b. N/A	EF: 0.90
c. N/A		c. Conservation credits	
9. Wall types		(HR-Heat recovery, Solar	
a. Frame, Wood, Exterior	R=13.0, 1292.7 ft <sup>2</sup>	DHP-Dedicated heat pump)	
b. Frame, Wood, Adjacent	R=13.0, 325.0 ft <sup>2</sup>	15. HVAC credits	PT,
c. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
d. N/A		HF-Whole house fan,	
e. N/A		PT-Programmable Thermostat,	
10. Ceiling types		MZ-C-Multizone cooling,	
a. Under Attic	R=30.0, 3415.0 ft <sup>2</sup>	MZ-H-Multizone heating)	
b. N/A			
c. N/A			
11. Ducts(Leak Free)			
a. Sup: Unc. Ret: Unc. AH: Attic	Sup. R=6.0, 310.5 ft		
b. N/A			

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

Builder Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Address of New Home: \_\_\_\_\_ City/FL Zip: \_\_\_\_\_



*\*NOTE: The home's estimated energy performance score is only available through the FLA/RES computer program. This is not a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStar<sup>TM</sup> designation), your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 321/638-1492 or see the Energy Gauge web site at [www.fsec.ucf.edu](http://www.fsec.ucf.edu) for information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Building Construction, contact the Department of Community Affairs at 850/487-1824.*

<sup>1</sup> Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.  
EnergyGauge® (Version: FLRCPB v4.5.2)

# Energy Code Compliance

## Duct System Performance Report

Project Name: Thomas Residence Address: City, State: Lake City, FL 32055- Owner: Frank Thomas Climate Zone: North	Builder: Sparks Construction Permitting Office: Columbia County Permit Number: Jurisdiction Number:
---	--

### Total Duct System Leakage Test Results

CFM25 Total Duct Leakage Test Values			
Line	System	Duct Leakage Total	Duct Leakage to Outdoors
1	System1	_____ cfm25(tot)	_____ cfm25(out)
2	System2	_____ cfm25(tot)	_____ cfm25(out)
3	System3	_____ cfm25(tot)	_____ cfm25(out)
4	System4	_____ cfm25(tot)	_____ cfm25(out)
5	<b>Total House Duct System Leakage</b>	Sum lines 1-4 _____  Divide by _____ (Total Conditioned Floor Area)  = _____ (Q <sub>n,tot</sub> )  <input type="checkbox"/> Receive credit if Q <sub>n,tot</sub> ≤ 0.03	Sum lines 1-4 _____  Divide by _____ (Total Conditioned Floor Area)  = _____ (Q <sub>n,out</sub> )  <input type="checkbox"/> Receive credit if Q <sub>n,out</sub> ≤ 0.03 AND Q <sub>n,tot</sub> ≤ 0.09

I hereby certify that the above duct testing performance results demonstrate compliance with the Florida Energy Code requirements in accordance with Section 610.1.A.1, Florida Building Code, Building Volume, Chapter 13 for leak free duct system credit.

**Signature:** \_\_\_\_\_  
**Printed Name:** \_\_\_\_\_  
**Florida Rater Certification #:** \_\_\_\_\_  
**DATE:** \_\_\_\_\_

Florida Building Code requires that testing to confirm leak free duct systems be performed by a Class 1 Florida Energy Gauge Certified Energy Rater. Certified Florida Class 1 raters can be found at: <http://energygauge.com/search.htm>



**BUILDING OFFICIAL:** \_\_\_\_\_  
**DATE:** \_\_\_\_\_

# BUILDING INPUT SUMMARY REPORT

<b>PROJECT</b>	<b>Title:</b> Thomas Residence		<b>Family Type:</b> Single		<b>Address Type:</b> Lot Information			
	<b>Owner:</b> Frank Thomas		<b>New/Existing:</b> New		<b>Lot #:</b> 14			
	<b># of Units:</b> 1		<b>Bedrooms:</b> 4		<b>Subdivision:</b> Bluebird Land'g			
	<b>Builder Name:</b> Sparks Construction		<b>Conditioned Area:</b> 3105		<b>Platbook:</b> (blank)			
	<b>Climate:</b> North		<b>Total Stories:</b> 1		<b>Street:</b> N/A			
	<b>Permit Office:</b> Columbia County		<b>Worst Case:</b> No		<b>County:</b> Columbia			
<b>Jurisdiction #:</b> (blank)		<b>Rotate Angle:</b> (blank)		<b>City, St, Zip:</b> Lake City, FL, 32055-				
<b>FLOORS</b>	#	Floor Type	R-Val	Area/Perimeter	Units			
	1	Slab-On-Grade Edge Insulation	5.0	223.5(p) ft	1			
<b>DOORS</b>	#	Door Type	Orientation	Area	Units			
	1	Insulated	Exterior	20.0 ft²	2			
<b>CEILINGS</b>	#	Ceiling Type	R-Val	Area	Base Area	Units		
	1	Under Attic	30.0	3415.0 ft²	3105.0 ft²	1		
<b>Credit Multipliers:</b> None								
<b>COOLING</b>	#	System Type	Efficiency	Capacity				
	1	Central Unit	SEER: 13.00	56.5 kBtu/hr				
<b>Credit Multipliers:</b> PT								
<b>WALLS</b>	#	Wall Type	Location	R-Val	Area	Units		
	1	Frame - Wood	Exterior	13.0	1292.7 ft²	1		
<b>HEATING</b>	#	System Type	Efficiency	Capacity				
	1	Electric Heat Pump	HSPF: 7.70	56.5 kBtu/hr				
<b>Credit Multipliers:</b> PT								
<b>DUCTS</b>	#	Supply Location	Return Location	Air Handler Location	Supply R-Val	Supply Length		
	1	Uncond.	Uncond.	Attic	6.0	310.5 ft		
<b>Credit Multipliers:</b> Leak free								
<b>WATER</b>	#	System Type	EF	Cap.	Conservation Type	Con. EF		
	1	Electric Resistance	0.90	80.0	None	0.00		
<b>REFR.</b>	#	Use Default?	Annual Operating Cost	Electric Rate				
	1	Yes	N/A	N/A				
<b>WINDOWS</b>	#	Panes	Tint	Ornt	Area	OH Length	OH Hght	Units
	1	Double	Clear	E	6.7 ft²	9.0 ft	1.5 ft	2
	2	Double	Clear	E	15.0 ft²	9.5 ft	1.5 ft	4
	3	Double	Clear	E	15.0 ft²	1.5 ft	5.5 ft	2
	4	Double	Clear	S	15.0 ft²	1.5 ft	5.5 ft	1
	5	Double	Clear	W	10.0 ft²	1.5 ft	5.5 ft	2
	6	Double	Clear	W	80.0 ft²	12.0 ft	7.3 ft	1
	7	Double	Clear	W	15.0 ft²	12.0 ft	5.5 ft	3
	8	Double	Clear	N	6.0 ft²	7.0 ft	3.5 ft	1
	9	Double	Clear	N	15.0 ft²	1.5 ft	5.5 ft	2
<b>MISC</b>	<b>Rater Name:</b> CodeOnlyPro		<b>Class #:</b> 3		<b>Pool Size:</b> 0			
	<b>Rater Certification #:</b> CodeOnlyPro		<b>Duct Leakage Type:</b> N/A		<b>Pump Size:</b> 0.00 hp			
	<b>Area Under Fluorescent:</b> 0.0		<b>Visible Duct Disconnects:</b> N/A		<b>Dryer Type:</b> Electric			
	<b>Area Under Incandescent:</b> 3105.0		<b>Leak Free Duct System Proposed:</b> Yes		<b>Stove Type:</b> Electric			
<b>NOTE: Not all Rating info shown</b>		<b>HRV/ERV System Present?:</b> No		<b>Avg Ceil Hgt:</b>				



# Residential System Sizing Calculation

## Summary

Frank Thomas

 Project Title:  
 902054SparksConstructionThomasFrankResMANJ

 Class 3 Rating  
 Registration No. 0  
 Climate: North

Lake City, FL

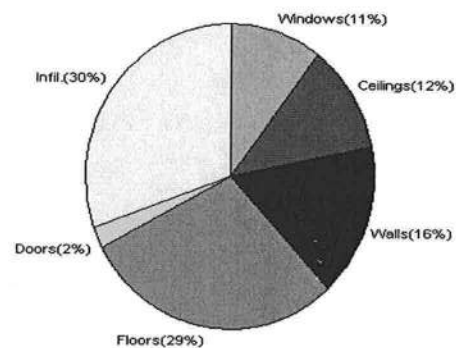
3/16/2009

Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M)					
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)					
Winter design temperature	33	F	Summer design temperature	92	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	37	F	Summer temperature difference	17	F
<b>Total heating load calculation</b>	<b>32679</b>	<b>Btuh</b>	<b>Total cooling load calculation</b>	<b>27929</b>	<b>Btuh</b>
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	119.3	39000	Sensible (SHR = 0.75)	132.1	29250
Heat Pump + Auxiliary(0.0kW)	119.3	39000	Latent	168.4	9750
			Total (Electric Heat Pump)	139.6	39000

## WINTER CALCULATIONS

Winter Heating Load (for 3140 sqft)

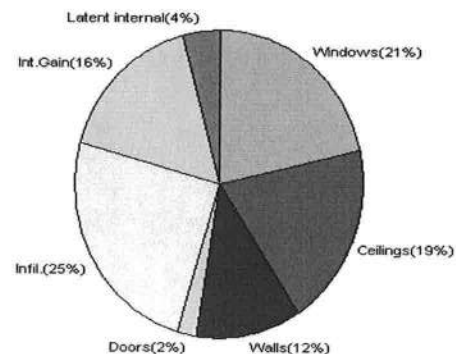
Load component		Load	
Window total	310 sqft	3444	Btuh
Wall total	1635 sqft	5368	Btuh
Door total	60 sqft	777	Btuh
Ceiling total	3207 sqft	3779	Btuh
Floor total	217 sqft	9474	Btuh
Infiltration	243 cfm	9836	Btuh
Duct loss		0	Btuh
<b>Subtotal</b>		<b>32679</b>	<b>Btuh</b>
Ventilation	0 cfm	0	Btuh
<b>TOTAL HEAT LOSS</b>		<b>32679</b>	<b>Btuh</b>



## SUMMER CALCULATIONS

Summer Cooling Load (for 3140 sqft)

Load component		Load	
Window total	310 sqft	5996	Btuh
Wall total	1635 sqft	3327	Btuh
Door total	60 sqft	588	Btuh
Ceiling total	3207 sqft	5311	Btuh
Floor total		0	Btuh
Infiltration	126 cfm	2338	Btuh
Internal gain		4580	Btuh
Duct gain		0	Btuh
Sens. Ventilation	0 cfm	0	Btuh
<b>Total sensible gain</b>		<b>22139</b>	<b>Btuh</b>
Latent gain(ducts)		0	Btuh
Latent gain(infiltration)		4590	Btuh
Latent gain(ventilation)		0	Btuh
Latent gain(internal/occupants/other)		1200	Btuh
<b>Total latent gain</b>		<b>5790</b>	<b>Btuh</b>
<b>TOTAL HEAT GAIN</b>		<b>27929</b>	<b>Btuh</b>



For Florida residences only

EnergyGauge® System Sizing

PREPARED BY:

DATE: 3/16/09 ERAN BEANSLEY

# System Sizing Calculations - Winter

## Residential Load - Whole House Component Details

Frank Thomas

Project Title:

Class 3 Rating

902054SparksConstructionThomasFrankResMANJ

Registration No. 0

Lake City, FL

Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F

3/16/2009

### Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, SHGC=0.5, Metal, 0.30	N	30.0		11.1	333 Btuh
2	2, SHGC=0.5, Metal, 0.30	N	80.0		11.1	888 Btuh
3	2, SHGC=0.5, Metal, 0.30	N	45.0		11.1	500 Btuh
4	2, SHGC=0.5, Metal, 0.30	E	6.0		11.1	67 Btuh
5	2, SHGC=0.5, Metal, 0.30	E	30.0		11.1	333 Btuh
6	2, SHGC=0.5, Metal, 0.30	S	15.0		11.1	166 Btuh
7	2, SHGC=0.5, Metal, 0.30	S	60.0		11.1	666 Btuh
8	2, SHGC=0.5, Metal, 0.30	S	13.3		11.1	148 Btuh
9	2, SHGC=0.5, Metal, 0.30	S	15.0		11.1	166 Btuh
10	2, SHGC=0.5, Metal, 0.30	S	16.0		11.1	178 Btuh
Window Total			310(sqft)			3444 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1266		3.3	4157 Btuh
2	Frame - Wood - Ext(0.09)	13.0	225		3.3	739 Btuh
3	Frame - Wood - Adj(0.09)	13.0	144		3.3	473 Btuh
Wall Total			1635			5368 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Exterior		40		12.9	518 Btuh
2	Insulated - Adjacent		20		12.9	259 Btuh
Door Total			60			777Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	3207		1.2	3779 Btuh
Ceiling Total			3207			3779Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	217.0 ft(p)		43.7	9474 Btuh
Floor Total			217			9474 Btuh
Zone Envelope Subtotal:						22843 Btuh
Infiltration	Type	ACH	Zone Volume		CFM=	Load
	Natural	0.58	25120		242.8	9836 Btuh
Ductload	Partially sealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)					0 Btuh
Zone #1	Sensible Zone Subtotal					32679 Btuh

# Manual J Winter Calculations

## Residential Load - Component Details (continued)

Frank Thomas

Project Title:

Class 3 Rating

Lake City, FL

902054SparksConstructionThomasFrankResMANJ

Registration No. 0

Climate: North

3/16/2009

### WHOLE HOUSE TOTALS

	Subtotal Sensible	32679 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	32679 Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)

(Frame types - metal, wood or insulated metal)

(U - Window U-Factor or 'DEF' for default)

(HTM - ManualJ Heat Transfer Multiplier)

Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types )



For Florida residences only



# System Sizing Calculations - Winter

## Residential Load - Room by Room Component Details

Frank Thomas

Project Title:

Class 3 Rating

902054SparksConstructionThomasFrankResMANJ

Registration No. 0

Lake City, FL

Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F

3/16/2009

### Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, SHGC=0.5, Metal, 0.30	N	30.0	11.1	333 Btuh
2	2, SHGC=0.5, Metal, 0.30	N	80.0	11.1	888 Btuh
3	2, SHGC=0.5, Metal, 0.30	N	45.0	11.1	500 Btuh
4	2, SHGC=0.5, Metal, 0.30	E	6.0	11.1	67 Btuh
5	2, SHGC=0.5, Metal, 0.30	E	30.0	11.1	333 Btuh
6	2, SHGC=0.5, Metal, 0.30	S	15.0	11.1	166 Btuh
7	2, SHGC=0.5, Metal, 0.30	S	60.0	11.1	666 Btuh
8	2, SHGC=0.5, Metal, 0.30	S	13.3	11.1	148 Btuh
9	2, SHGC=0.5, Metal, 0.30	S	15.0	11.1	166 Btuh
10	2, SHGC=0.5, Metal, 0.30	S	16.0	11.1	178 Btuh
Window Total			310(sqft)		3444 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1266	3.3	4157 Btuh
2	Frame - Wood - Ext(0.09)	13.0	225	3.3	739 Btuh
3	Frame - Wood - Adj(0.09)	13.0	144	3.3	473 Btuh
Wall Total			1635		5368 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exterior		40	12.9	518 Btuh
2	Insulated - Adjacent		20	12.9	259 Btuh
Door Total			60		777Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	3207	1.2	3779 Btuh
Ceiling Total			3207		3779Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	217.0 ft(p)	43.7	9474 Btuh
Floor Total			217		9474 Btuh
Zone Envelope Subtotal:					22843 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	Load
	Natural	0.58	25120	242.8	9836 Btuh
Ductload	Partially sealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)				0 Btuh
Zone #1	Sensible Zone Subtotal				32679 Btuh

# Manual J Winter Calculations

## Residential Load - Component Details (continued)

Frank Thomas

Project Title:

Class 3 Rating

Lake City, FL

902054SparksConstructionThomasFrankResMANJ

Registration No. 0

Climate: North

3/16/2009

### WHOLE HOUSE TOTALS

	Subtotal Sensible	32679 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	32679 Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)

(Frame types - metal, wood or insulated metal)

(U - Window U-Factor or 'DEF' for default)

(HTM - ManualJ Heat Transfer Multiplier)

Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types )



For Florida residences only

# System Sizing Calculations - Summer

## Residential Load - Whole House Component Details

Frank Thomas

Project Title:

Class 3 Rating

902054SparksConstructionThomasFrankResMANJ

Registration No. 0

Lake City, FL

Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F

3/16/2009

### Component Loads for Whole House

Window	Type*			Overhang		Window Area(sqft)			HTM		Load
	Pn/SHGC/U/InSh/ExSh/IS	Ornt		Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded	
1	2, SHGC=0.5, 0.30, None,N,N	N		1.5ft	6ft.	30.0	0.0	30.0	16	16	470 Btuh
2	2, SHGC=0.5, 0.30, None,N,N	N		13.5f	8ft.	80.0	0.0	80.0	16	16	1254 Btuh
3	2, SHGC=0.5, 0.30, None,N,N	N		13.5f	6ft.	45.0	0.0	45.0	16	16	705 Btuh
4	2, SHGC=0.5, 0.30, None,N,N	E		7ft.	4ft.	6.0	6.0	0.0	16	53	94 Btuh
5	2, SHGC=0.5, 0.30, None,N,N	E		1.5ft	18ft.	30.0	0.0	30.0	16	53	1602 Btuh
6	2, SHGC=0.5, 0.30, None,N,N	S		1.5ft	6ft.	15.0	15.0	0.0	16	19	235 Btuh
7	2, SHGC=0.5, 0.30, None,N,N	S		9.5ft	6ft.	60.0	60.0	0.0	16	19	941 Btuh
8	2, SHGC=0.5, 0.30, None,N,N	S		9.5ft	8ft.	13.3	13.3	0.0	16	19	208 Btuh
9	2, SHGC=0.5, 0.30, None,N,N	S		1.5ft	6ft.	15.0	15.0	0.0	16	19	235 Btuh
10	2, SHGC=0.5, 0.30, None,N,N	S		1.5ft	7.33	16.0	16.0	0.0	16	19	251 Btuh
Window Total						310 (sqft)					5996 Btuh
Walls	Type	R-Value/U-Value				Area(sqft)		HTM		Load	
1	Frame - Wood - Ext	13.0/0.09				1265.7		2.1		2640 Btuh	
2	Frame - Wood - Ext	13.0/0.09				225.0		2.1		469 Btuh	
3	Frame - Wood - Adj	13.0/0.09				144.0		1.5		217 Btuh	
Wall Total						1635 (sqft)			3327 Btuh		
Doors	Type					Area (sqft)		HTM		Load	
1	Insulated - Exterior					40.0		9.8		392 Btuh	
2	Insulated - Adjacent					20.0		9.8		196 Btuh	
Door Total						60 (sqft)			588 Btuh		
Ceilings	Type/Color/Surface	R-Value				Area(sqft)		HTM		Load	
1	Vented Attic/DarkShingle	30.0				3207.0		1.7		5311 Btuh	
Ceiling Total						3207 (sqft)			5311 Btuh		
Floors	Type	R-Value				Size		HTM		Load	
1	Slab On Grade	0.0				217 (ft(p))		0.0		0 Btuh	
Floor Total						217.0 (sqft)			0 Btuh		
Zone Envelope Subtotal:											15222 Btuh
Infiltration	Type	ACH				Volume(cuft)		CFM=		Load	
SensibleNatural		0.30				25120		125.6		2338 Btuh	
Internal gain	Occupants				Btuh/occupant			Appliance		Load	
		6				X 230 +			3200		4580 Btuh
Duct load	Partially sealed, R6.0, Supply(Attic), Return(Attic)								DGM = 0.00		0.0 Btuh
Sensible Zone Load											22139 Btuh



# Manual J Summer Calculations

## Residential Load - Component Details (continued)

Frank Thomas  
Lake City, FL

Project Title:  
902054SparksConstructionThomasFrankResMANJ

Class 3 Rating  
Registration No. 0  
Climate: North

3/16/2009

### WHOLE HOUSE TOTALS

<b>Whole House Totals for Cooling</b>	<b>Sensible Envelope Load All Zones</b>	<b>22139 Btuh</b>
	Sensible Duct Load	0 Btuh
	<b>Total Sensible Zone Loads</b>	<b>22139 Btuh</b>
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	<b>Total sensible gain</b>	<b>22139 Btuh</b>
	Latent infiltration gain (for 54 gr. humidity difference)	4590 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	<b>Latent total gain</b>	<b>5790 Btuh</b>
	<b>TOTAL GAIN</b>	<b>27929 Btuh</b>

\*Key: Window types (Pn - Number of panes of glass)  
(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)  
(U - Window U-Factor or 'DEF' for default)  
(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))  
(ExSh - Exterior shading device: none(N) or numerical value)  
(BS - Insect screen: none(N), Full(F) or Half(H))  
(Ornt - compass orientation)



For Florida residences only

# System Sizing Calculations - Summer

## Residential Load - Room by Room Component Details

Frank Thomas

Project Title:

Class 3 Rating

902054SparksConstructionThomasFrankResMANJ

Registration No. 0

Lake City, FL

Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F

3/16/2009

### Component Loads for Zone #1: Main

Window	Type*		Overhang		Window Area(sqft)			HTM		Load
	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded	
1	2, SHGC=0.5, 0.30, None,N,N	N	1.5ft	6ft.	30.0	0.0	30.0	16	16	470 Btuh
2	2, SHGC=0.5, 0.30, None,N,N	N	13.5f	8ft.	80.0	0.0	80.0	16	16	1254 Btuh
3	2, SHGC=0.5, 0.30, None,N,N	N	13.5f	6ft.	45.0	0.0	45.0	16	16	705 Btuh
4	2, SHGC=0.5, 0.30, None,N,N	E	7ft.	4ft.	6.0	6.0	0.0	16	53	94 Btuh
5	2, SHGC=0.5, 0.30, None,N,N	E	1.5ft	18ft.	30.0	0.0	30.0	16	53	1602 Btuh
6	2, SHGC=0.5, 0.30, None,N,N	S	1.5ft	6ft.	15.0	15.0	0.0	16	19	235 Btuh
7	2, SHGC=0.5, 0.30, None,N,N	S	9.5ft	6ft.	60.0	60.0	0.0	16	19	941 Btuh
8	2, SHGC=0.5, 0.30, None,N,N	S	9.5ft	8ft.	13.3	13.3	0.0	16	19	208 Btuh
9	2, SHGC=0.5, 0.30, None,N,N	S	1.5ft	6ft.	15.0	15.0	0.0	16	19	235 Btuh
10	2, SHGC=0.5, 0.30, None,N,N	S	1.5ft	7.33	16.0	16.0	0.0	16	19	251 Btuh
Window Total					310 (sqft)					5996 Btuh
Walls	Type	R-Value/U-Value			Area(sqft)		HTM		Load	
1	Frame - Wood - Ext	13.0/0.09			1265.7		2.1		2640 Btuh	
2	Frame - Wood - Ext	13.0/0.09			225.0		2.1		469 Btuh	
3	Frame - Wood - Adj	13.0/0.09			144.0		1.5		217 Btuh	
Wall Total					1635 (sqft)					3327 Btuh
Doors	Type				Area (sqft)		HTM		Load	
1	Insulated - Exterior				40.0		9.8		392 Btuh	
2	Insulated - Adjacent				20.0		9.8		196 Btuh	
Door Total					60 (sqft)					588 Btuh
Ceilings	Type/Color/Surface	R-Value			Area(sqft)		HTM		Load	
1	Vented Attic/DarkShingle	30.0			3207.0		1.7		5311 Btuh	
Ceiling Total					3207 (sqft)					5311 Btuh
Floors	Type	R-Value			Size		HTM		Load	
1	Slab On Grade	0.0			217 (ft(p))		0.0		0 Btuh	
Floor Total					217.0 (sqft)					0 Btuh
Zone Envelope Subtotal:										15222 Btuh
Infiltration	Type	ACH			Volume(cuft)		CFM=		Load	
	SensibleNatural	0.30			25120		125.6		2338 Btuh	
Internal gain	Occupants			Btuh/occupant			Appliance		Load	
	6			X 230 +			3200		4580 Btuh	
Duct load	Partially sealed, R6.0, Supply(Attic), Return(Attic)							DGM = 0.00		0.0 Btuh
Sensible Zone Load										22139 Btuh

# Manual J Summer Calculations

## Residential Load - Component Details (continued)

Frank Thomas

Lake City, FL

Project Title:

902054SparksConstructionThomasFrankResMANJ

Class 3 Rating

Registration No. 0

Climate: North

3/16/2009

### WHOLE HOUSE TOTALS

<b>Whole House Totals for Cooling</b>	<b>Sensible Envelope Load All Zones</b>	<b>22139 Btuh</b>
	Sensible Duct Load	0 Btuh
	<b>Total Sensible Zone Loads</b>	<b>22139 Btuh</b>
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	<b>Total sensible gain</b>	<b>22139 Btuh</b>
	Latent infiltration gain (for 54 gr. humidity difference)	4590 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	<b>Latent total gain</b>	<b>5790 Btuh</b>
	<b>TOTAL GAIN</b>	<b>27929 Btuh</b>

\*Key: Window types (Pn - Number of panes of glass)

(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)

(U - Window U-Factor or 'DEF' for default)

(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))

(ExSh - Exterior shading device: none(N) or numerical value)

(BS - Insect screen: none(N), Full(F) or Half(H))

(Ornt - compass orientation)



For Florida residences only



# Residential Window Diversity

## MidSummer

Frank Thomas

Lake City, FL

Project Title:  
902054SparksConstructionThomasFrankResMANJ

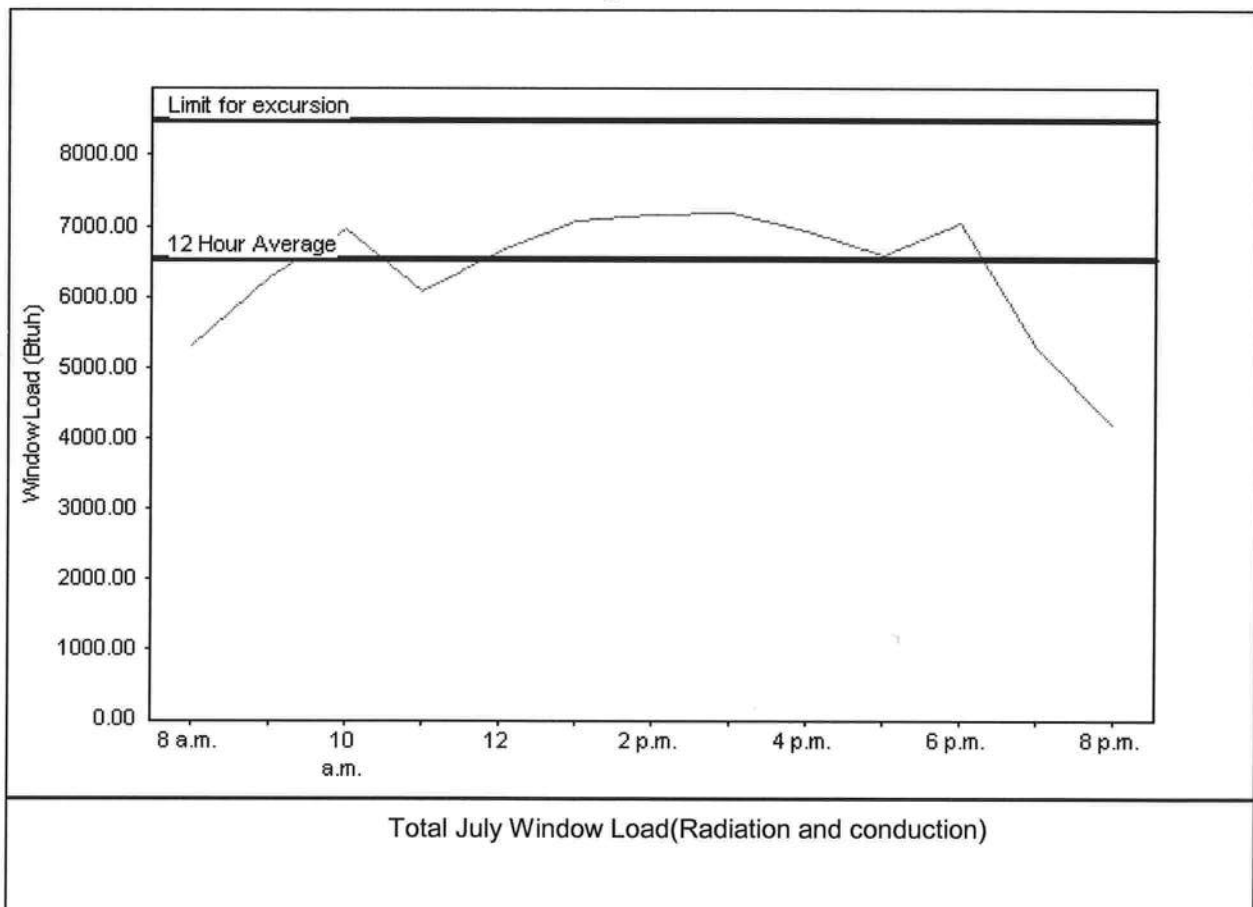
Class 3 Rating  
Registration No. 0  
Climate: North

3/16/2009

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	6547 Btuh
Summer setpoint	75 F	Peak window load for July	7189 Btuh
Summer temperature difference	17 F	Excursion limit(130% of Ave.)	8511 Btuh
Latitude	29 North	Window excursion (July)	None

### WINDOW Average and Peak Loads



The midsummer window load for this house does not exceed the window load excursion limit.  
This house has adequate midsummer window diversity.

EnergyGauge® System Sizing for Florida residences only

PREPARED BY: \_\_\_\_\_

DATE: 3/16/09 EVAN B. BARNES

EnergyGauge® FLR2PB v4.1



District No. 1 - Ronald Williams  
District No. 2 - Dewey Weaver  
District No. 3 - Jody DuPree  
District No. 4 - Stephen E. Bailey  
District No. 5 - Scarlet P. Frisina



**BOARD OF COUNTY COMMISSIONERS • COLUMBIA COUNTY**

March 6, 2009

**M E M O**

**TO: John Kerce, Chief Building Official  
Brian Kepner, County Planner**

**FR: Dale Williams, County Manager**

**RE: Impact Fees – FOR IMMEDIATE ATTENTION**

Effective immediately you are to suspend the collection of impact fees. This suspension was approved by the Board of County Commissioners in their regular meeting of March 5, 2009. The suspension includes those fees levied by both ordinances, general government and schools. The approved suspension is in anticipation of a moratorium to be approved March 19, 2009.

You are also requested to provide a list of all impact fees collected since January 1, 2009. This list should include the following information:

- 1.) the name of the person/business who initially paid the impact fee and the date paid
- 2.) the name of the owner on whose project the impact fee was paid
- 3.) a "breakdown" on the impact collected by category (i.e. corrections, transportation, EMS, fire, school)

For those fees recently collected but not yet deposited, I suggest you hold the checks (I assume no cash was collected) until after the March 19, 2009 Public Hearing to impose a moratorium. You should notify the check issuer of the reason you are holding the check.

DW/pds

**XC: Impact Fees File  
Board of County Commissioners  
Outgoing Correspondence**

**FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION**

## Florida Department of Community Affairs Residential Performance Method A

Project Name: 902054SparksConstructionThomasFrankRes  
 Street:  
 City, State, Zip: Lake City, FL,  
 Owner: Frank Thomas  
 Design Location: FL, Gainesville

Builder Name: Sparks Constrction  
 Permit Office:  
 Permit Number:  
 Jurisdiction:

- |  |                  |
|--|------------------|
| 1. New construction or existing              | New (From Plans) |
| 2. Single family or multiple family          | Single-family    |
| 3. Number of units, if multiple family       | 1                |
| 4. Number of Bedrooms                        | 4                |
| 5. Is this a worst case?                     | No               |
| 6. Conditioned floor area (ft <sup>2</sup> ) | 3140             |

- |              |                 |                        |
|--------------|-----------------|------------------------|
| 7. Windows   | Description     | Area                   |
| a. U-Factor: | DbI, U=0.30     | 310.33 ft <sup>2</sup> |
|              | SHGC: SHGC=0.50 |                        |
| b. U-Factor: | N/A             | ft <sup>2</sup>        |
|              | SHGC:           |                        |
| c. U-Factor: | N/A             | ft <sup>2</sup>        |
|              | SHGC:           |                        |
| d. U-Factor: | N/A             | ft <sup>2</sup>        |
|              | SHGC:           |                        |
| e. U-Factor: | N/A             | ft <sup>2</sup>        |
|              | SHGC:           |                        |

- |                                  |            |                         |
|----------------------------------|------------|-------------------------|
| 8. Floor Types                   | Insulation | Area                    |
| a. Slab-On-Grade Edge Insulation | R=0.0      | 2520.00 ft <sup>2</sup> |
| b. N/A                           | R=         | ft <sup>2</sup>         |
| c. N/A                           | R=         | ft <sup>2</sup>         |

- |                           |            |                         |
|---------------------------|------------|-------------------------|
| 9. Wall Types             | Insulation | Area                    |
| a. Frame - Wood, Exterior | R=13.0     | 1860.70 ft <sup>2</sup> |
| b. Frame - Wood, Adjacent | R=13.0     | 164.00 ft <sup>2</sup>  |
| c. N/A                    | R=         | ft <sup>2</sup>         |
| d. N/A                    | R=         | ft <sup>2</sup>         |

- |                         |            |                         |
|-------------------------|------------|-------------------------|
| 10. Ceiling Types       | Insulation | Area                    |
| a. Under Attic (Vented) | R=30.0     | 2520.00 ft <sup>2</sup> |
| b. Knee Wall (Vented)   | R=30.0     | 687.00 ft <sup>2</sup>  |
| c. N/A                  | R=         | ft <sup>2</sup>         |

11. Ducts  
 a. Sup: Attic Ret: Attic AH: Garage Sup. R= 6, 280 ft<sup>2</sup>

12. Cooling systems  
 a. Central Unit  
 Cap: 39 kBtu/hr  
 SEER: 13

13. Heating systems  
 a. Electric Heat Pump  
 Cap: 39 kBtu/hr  
 HSPF: 7.8

14. Hot water systems  
 a. Electric  
 Cap: 80 gallons  
 EF: 0.93  
 b. Conservation features  
 None

15. Credits  
 None

Glass/Floor Area: 0.099

Total As-Built Modified Loads: 42.72

Total Baseline Loads: 60.16

**PASS**

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

PREPARED BY:

DATE: 3/16/09 EVAN BEANLEY

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

OWNER/AGENT:

DATE:

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



BUILDING OFFICIAL:

DATE:

## PROJECT

Title: 902054SparksConstructionTh	Bedrooms: 4	Address Type: Lot Information
Building Type: FLAsBuilt	Bathrooms: 0	Lot #: 14
Owner: Frank Thomas	Conditioned Area: 3140	SubDivision: Bluebird Land
# of Units: 1	Total Stories: 2	PlatBook:
Builder Name: Sparks Constrcction	Worst Case: No	Street:
Permit Office:	Rotate Angle: 0	County: Columbia
Jurisdiction:	Cross Ventilation: No	City, State, Zip: Lake City ,
Family Type: Single-family	Whole House Fan: No	FL ,
New/Existing: New (From Plans)		
Comment:		

## CLIMATE

✓	Design Location	TMY Site	IECC Zone	Design Temp		Int Design Temp		Heating Degree Days	Design Moisture	Daily Temp Range
				97.5 %	2.5 %	Winter	Summer			
_____	FL, Gainesville	FL_GAINESVILLE_REGI	2	32	92	75	70	1305.5	51	Medium

## FLOORS

✓	#	Floor Type	Perimeter	R-Value	Area	Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulatio	217 ft	0	2520 ft²	0.3	0.3	0.4

## ROOF

✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	Tested	Deck Insul.	Pitch
_____	1	Gable or shed	Composition shingles	3029 ft²	840 ft²	Dark	0.96	No	0	33.7 deg

## ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Partial cathedral cei	Vented	303	2520 ft²	N	N

## CEILING

✓	#	Ceiling Type	R-Value	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	30	2520 ft²	0.11	Wood
_____	2	Knee Wall (Vented)	30	687 ft²	0.11	Wood

## WALLS

✓	#	Ornt	Adjacent To	Wall Type	Cavity R-Value	Area	Sheathing R-Value	Framing Fraction	Solar Absor.
_____	1	N	Exterior	Frame - Wood	13	381.33 ft²	0	0.23	0.75
_____	2	E	Exterior	Frame - Wood	13	40 ft²	0	0.23	0.75
_____	3	N	Garage	Frame - Wood	13	164 ft²	0	0.23	0.01
_____	4	E	Exterior	Frame - Wood	13	322.67 ft²		0.23	0.75
_____	5	S	Exterior	Frame - Wood	13	136 ft²		0.23	0.75
_____	6	E	Exterior	Frame - Wood	13	24 ft²		0.23	0.75
_____	7	S	Exterior	Frame - Wood	13	256 ft²		0.23	0.75
_____	8	W	Exterior	Frame - Wood	13	24 ft²		0.23	0.75



## WALLS

✓	#	Ornt	Adjacent To	Wall Type	Cavity R-Value	Area	Sheathing R-Value	Framing Fraction	Solar Absor.
_____	9	S	Exterior	Frame - Wood	13	128 ft²		0.23	0.75
_____	10	W	Exterior	Frame - Wood	13	282.67 ft²		0.23	0.75
_____	11	N	Exterior	Frame - Wood	13	13 ft²		0.23	0.75
_____	12	S	Exterior	Frame - Wood	13	240 ft²		0.23	0.75
_____	13	W	Exterior	Frame - Wood	13	13 ft²		0.23	0.75

## DOORS

✓	#	Ornt	Door Type	Storms	U-Value	Area
_____	1	N	Insulated	None	0.4	20 ft²
_____	2	E	Insulated	None	0.4	20 ft²
_____	3	S	Insulated	None	0.4	20 ft²

## WINDOWS

Window orientation below is as entered. Actual orientation is modified by rotate angle shown in "Project" section above.

✓	#	Ornt	Frame	Panes	NFRC	U-Factor	SHGC	Storms	Area	Overhang		Int Shade	Screening
										Depth	Separation		
_____	1	N	Metal	Double (Clear)	Yes	0.3	0.5	N	30 ft²	0 ft 18 in	0 ft 12 in	HERS 2006	None
_____	2	N	Metal	Double (Clear)	Yes	0.3	0.5	N	80 ft²	0 ft 162 in	0 ft 12 in	HERS 2006	None
_____	3	N	Metal	Double (Clear)	Yes	0.3	0.5	N	45 ft²	0 ft 162 in	0 ft 12 in	HERS 2006	None
_____	4	E	Metal	Double (Clear)	Yes	0.3	0.5	N	6 ft²	0 ft 84 in	0 ft 12 in	HERS 2006	None
_____	5	E	Metal	Double (Clear)	Yes	0.3	0.5	N	30 ft²	0 ft 18 in	0 ft 144 in	HERS 2006	None
_____	6	S	Metal	Double (Clear)	Yes	0.3	0.5	N	15 ft²	0 ft 18 in	0 ft 12 in	HERS 2006	None
_____	7	S	Metal	Double (Clear)	Yes	0.3	0.5	N	60 ft²	0 ft 114 in	0 ft 12 in	HERS 2006	None
_____	8	S	Metal	Double (Clear)	Yes	0.3	0.5	N	13.33 ft²	0 ft 114 in	0 ft 12 in	HERS 2006	None
_____	9	S	Metal	Double (Clear)	Yes	0.3	0.5	N	15 ft²	0 ft 18 in	0 ft 12 in	HERS 2006	None
_____	10	S	Metal	Double (Clear)	Yes	0.3	0.5	N	16 ft²	0 ft 18 in	0 ft 12 in	HERS 2006	None

## INFILTRATION & VENTING

✓	Method	SLA	CFM 50	ACH 50	ELA	EqLA	---- Forced Ventilation ----		Run Time	Fan
							Supply CFM	Exhaust CFM	Fraction	Watts
_____	Default	0.00036	2965	7.08	162.8	306.1	0 cfm	0 cfm	0	0

## GARAGE

✓	#	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
_____	1	827.22 ft²	822 ft²	100 ft	8 ft	11

## COOLING SYSTEM

✓	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Ductless
_____	1	Central Unit	Split	SEER: 13	39 kBtu/hr	1170 cfm	0.75	

## HEATING SYSTEM

✓	#	System Type	Subtype	Efficiency	Capacity	Ductless
✓	1	Electric Heat Pump	None	HSPF: 7.8	39 kBtu/hr	

## HOT WATER SYSTEM

✓	#	System Type	EF	Cap	Use	SetPnt	Conservation
✓	1	Electric	0.93	80 gal	70 gal	120 deg	None

## SOLAR HOT WATER SYSTEM

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

## DUCTS

✓	#	--- Supply ---			--- Return ---		Leakage Type	Air Handler	CFM 25	Percent Leakage	QN	RLF
✓	1	Attic	6	280 ft²	Attic	200 ft²	Default Leakage	Garage				

## TEMPERATURES

Programable Thermostat: N

Ceiling Fans:

Cooling	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input checked="" type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec
Heating	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input checked="" type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec
Venting	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input checked="" type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec

Thermostat Schedule: HERS 2006 Reference

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

# Code Compliance Checklist

## Residential Whole Building Performance Method A - Details

ADDRESS:

Lake City, FL,

PERMIT #:

**INFILTRATION REDUCTION COMPLIANCE CHECKLIST**

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	N1106.AB.1.1	Maximum: .3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	
Exterior & Adjacent Walls	N1106.AB.1.2.1	Caulk, gasket, weatherstrip or seal between: windows/doors & frames, surrounding wall; foundation & wall sole or sill plate; joints between exterior wall panels at corners; utility penetrations; between wall panels & top/bottom plates; between walls and floor. EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate.	
Floors	N1106.AB.1.2.2	Penetrations/openings > 1/8" sealed unless backed by truss or joint members. EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.	
Ceilings	N1106.AB.1.2.3	Between walls & ceilings; penetrations of ceiling plane to top floor; around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate; attic access. EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams.	
Recessed Lighting Fixtures	N1106.AB.1.2.4	Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation; or Type IC with < 2.0 cfm from conditioned space, tested.	
Multi-story Houses	N1106.AB.1.2.5	Air barrier on perimeter of floor cavity between floors.	
Additional Infiltration reqts	N1106.AB.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	

**OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)**

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	N1112.AB.3	Comply with efficiency requirements in Table N112.ABC.3. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	N1112.AB.2.3	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%. Heat pump pool heaters shall have a minimum COP of 4.0.	
Shower heads	N1112.AB.2.4	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	N1110.AB	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated and installed in accordance with the criteria of Section N1110.AB. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	N1107.AB.2	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	N1104.AB.1 N1102.B.1.1	Ceilings-Min. R-19. Common walls-frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

# ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX\* = 71

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

1. New construction or existing	New (From Plans)	9. Wall Types	Insulation	Area
2. Single family or multiple family	Single-family	a. Frame - Wood, Exterior	R=13.0	1860.70 ft²
3. Number of units, if multiple family	1	b. Frame - Wood, Adjacent	R=13.0	164.00 ft²
4. Number of Bedrooms	4	c. N/A	R=	ft²
5. Is this a worst case?	No	d. N/A	R=	ft²
6. Conditioned floor area (ft²)	3140	10. Ceiling Types	Insulation	Area
7. Windows**	Description	a. Under Attic (Vented)	R=30.0	2520.00 ft²
a. U-Factor:	Dbl, U=0.30	b. Knee Wall (Vented)	R=30.0	687.00 ft²
SHGC:	SHGC=0.50	c. N/A	R=	ft²
b. U-Factor:	N/A	11. Ducts		
SHGC:		a. Sup: Attic Ret: Attic AH: Garage Sup. R= 6, 280 ft²		
c. U-Factor:	N/A	12. Cooling systems		
SHGC:		a. Central Unit	Cap: 39 kBtu/hr	SEER: 13
d. U-Factor:	N/A	13. Heating systems		
SHGC:		a. Electric Heat Pump	Cap: 39 kBtu/hr	HSPF: 7.8
e. U-Factor:	N/A	14. Hot water systems		
SHGC:		a. Electric	Cap: 80 gallons	EF: 0.93
8. Floor Types	Insulation	b. Conservation features		
a. Slab-On-Grade Edge Insulation	R=0.0	None		
b. N/A	R=	15. Credits		None
c. N/A	R=			

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

Builder Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Address of New Home: \_\_\_\_\_ City/FL Zip: \_\_\_\_\_



\*Note: The home's estimated Energy Performance Index is only available through the EnergyGauge USA - FlaRes2008 computer program. This is not a Building Energy Rating. If your Index is below 100, your home may qualify for incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at (321) 638-1492 or see the Energy Gauge web site at [energygauge.com](http://energygauge.com) for information and a list of certified Raters. For information about Florida's Energy Efficiency Code for Building Construction, contact the Department of Community Affairs at (850) 487-1824.

\*\*Label required by Section 13-104.4.5 of the Florida Building Code, Building, or Section B2.1.1 of Appendix G of the Florida Building Code, Residential, if not DEFAULT.





# COLUMBIA COUNTY BUILDING DEPARTMENT RESIDENTIAL CHECK LIST REQUIREMENTS

## MINIMUM PLAN REQUIREMENTS FOR THE FLORIDA BUILDING CODE RESIDENTIAL 2007 ONE (1) AND TWO (2) FAMILY DWELLINGS

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

**ALL BUILDING PLANS MUST INDICATE COMPLIANCE with the Current 2007 FLORIDA BUILDING CODES RESIDENTIAL. 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 FIGURE R301.2(4) of the FLORIDA BUILDING CODES RESIDENTIAL (Florida Wind speed map) SHALL BE USED.**

WIND SPEED LINE SHALL BE DEFINED AS FOLLOWS: THE CENTERLINE OF INTERSTATE 75.

ALL BUILDINGS CONSTRUCTED EAST OF SAID LINE SHALL BE ----- 100 MPH  
ALL BUILDINGS CONSTRUCTED WEST OF SAID LINE SHALL BE -----110 MPH  
NO AREA IN COLUMBIA COUNTY IS IN A WIND BORNE DEBRIS REGION

**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.)	IIIIIIII	IIIIIIII	IIII
	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	1.0 Acres	✓		
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 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	IIIII	IIII	IIIII
		YES	NO	N/A
9	Basic wind speed (3-second gust), miles per hour 110	✓		
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	Emergency escape and rescue opening shown in each bedroom (net clear opening shown)	✓		
25	Safety glazing of glass where needed	✓		
26	Fireplaces types (gas appliance) (vented or non-vented) or wood burning with Hearth (see chapter 10 of FBCR)	✓		
27	Stairs with dimensions (width, tread and riser and total run) details of guardrails, Handrails (see FBCR SECTION 311)	✓		
28	Identify accessibility of bathroom (see FBCR SECTION 322)	✓		

**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 _____ Pound Per Square Foot			✓
33	Location of horizontal and vertical steel, for foundation or walls (include # size and type)	✓		

### **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 320: 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	✓		
----	---	---	--	--

### **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			✓
	Show the sub-floor structural panel sheathing type, thickness and fastener schedule on the edges &			✓

48	intermediate 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 309	✓		
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 FBCR 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 FBCR 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 802.10 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 Table 602,3(2) & 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	✓		



## **FBCR 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, showing dimensions condition area equal to the total condition living space area*

GENERAL REQUIREMENTS: 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 locations in bathrooms	✓		
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	Switches, outlets/receptacles, lighting and all required GFCI outlets identified	✓		
86	Ceiling fans	✓		
87	Smoke detectors & Carbon dioxide detectors	✓		
88	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. <i>under ground</i>	✓		

90	Appliances and HVAC equipment and disconnects	✓		
91	Arc Fault Circuits (AFCI) in bedrooms	✓		

**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.

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

### **THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS**

		YES	NO	N/A
92	<b>Building Permit Application</b> A current Building Permit Application form is to be completed and submitted for all residential projects	✓		
93	<b>Parcel Number</b> The parcel number (Tax ID number) from the Property Appraiser (386) 758-1084 is required. A copy of property deed is also requested	✓		
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			✓
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 base flood elevation (100 year flood) has been established			✓
100	A development permit will also be required. 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. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver ( <b>\$50.00</b> ). All culvert waivers are sent to the Columbia County Public Works Department for approval or denial.	✓		
102	<b>911 Address:</b> If the project is located in an area where a 911 address has not been issued, then 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	✓		



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

**The provisions of Chapter 1, Florida Building Code, Building 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 submitted application is approved for permitting the applicant will be notified by phone as to the date and time a building permit will be prepared and issued by the Columbia County Building & Zoning Department**



# WILLIAM MYERS DESIGN, INC.

426 SW COMMERCE DRIVE, SUITE 135 LAKE CITY, FLORIDA 32025  
386.758.8406 OFFICE 386.752.7158 FAX will@willmyers.net

Building & Zoning  
Joe Haltiwanger  
(386) 758-1163  
joe\_haltiwanger@columbiacountyfla.com

RE: Sparks Construction - Frank Thomas Residence

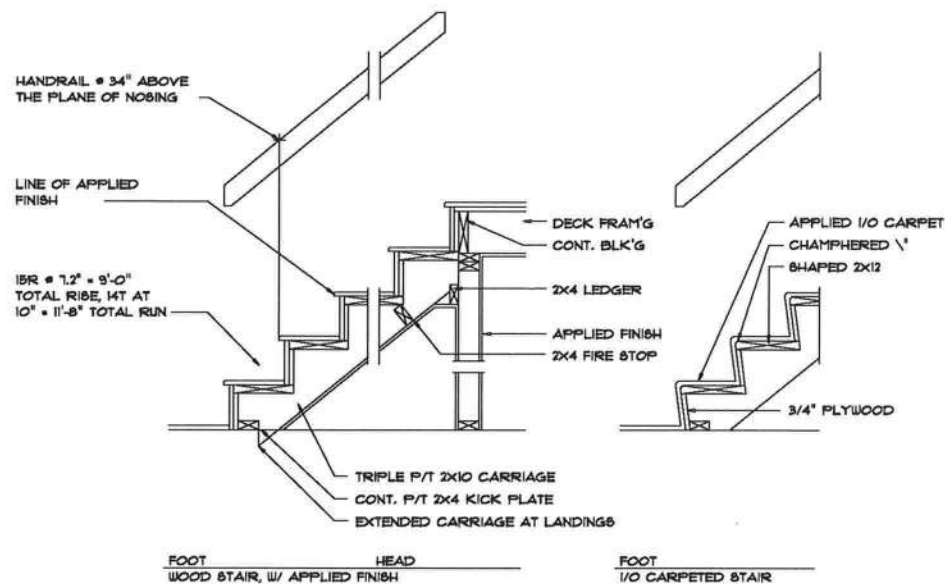
Joe,

Please note that the 'storage room' window on the upper level of the above referenced residence shall be a minimum of 24" above the finish floor unless a railing is installed.

Also, please see rise and run stair detailing for the stairs shown on the plans for yours and Sparks Construction's reference.

If you have any additional questions in regards to this project, please do not hesitate to contact me.

Best Regards,  
Will Myers  
William Myerse Design, Inc.



## Typical Stair DETAIL

SCALE: NTS

# PRODUCT APPROVAL SPECIFICATION SHEET

**Location:** Blue Bird Landing **Project Name:** Thomas Residence

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and the product approval number(s) on the building components listed below if they will be utilized on the construction project for 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)

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
<b>A. EXTERIOR DOORS</b>			
1. Swinging	<u>Maronite</u>	<u><del>Door</del> Fiberglass door</u>	<u>FL, # 4668.9</u>
2. Sliding			
3. Sectional			
4. Roll up			
5. Automatic			
6. Other			
<b>B. WINDOWS</b>			
1. Single hung	<u>YKK</u>		<u>FL # 8114</u>
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>C. PANEL WALL</b>			
1. Siding	<u>James Hardi</u>	<u>Lap Siding</u>	<u>FL 889-R3</u>
2. Soffits	<u>Kaycan</u>	<u>Aluminum soffit</u>	<u>FL 4899</u>
3. EIFS			
4. Storefronts			
5. Curtain walls			
6. Wall louver			
7. Glass block			
8. Membrane			
9. Greenhouse			
10. Other			
<b>D. ROOFING PRODUCTS</b>			
1. Asphalt Shingles	<u>Elk</u>	<u>Prestique</u>	<u>1476.1</u>
2. Underlayments			
3. Roofing Fasteners			
4. Non-structural Metal Rf			
5. Built-Up Roofing			
6. Modified Bitumen			
7. Single Ply Roofing Sys			
8. Roofing Tiles			
9. Roofing Insulation			
10. Waterproofing			
11. Wood shingles /shakes			
12. Roofing Slate			

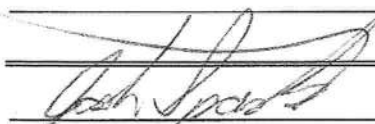
Category/Subcategory (cont.)	Manufacturer	Product Description	Approval Number(s)
Liquid Applied Roof Sys			
4. Cements-Adhesives – Coatings			
15. Roof Tile Adhesive			
16. Spray Applied Polyurethane Roof			
17. Other			
<b>E. SHUTTERS</b>			
1. Accordion			
2. Bahama			
3. Storm Panels			
4. Colonial			N/A
5. Roll-up			
6. Equipment			
7. Others			
<b>F. SKYLIGHTS</b>			
1. Skylight			N/A
2. Other			
<b>G. STRUCTURAL COMPONENTS</b>			N/A
1. Wood connector/anchor			
2. Truss plates			
3. Engineered lumber			
4. Railing			
5. Coolers-freezers			
6. Concrete Admixtures			
7. Material			
8. Insulation Forms			
9. Plastics			
10. Deck-Roof			
11. Wall			
12. Sheds			
13. Other			
<b>H. NEW EXTERIOR ENVELOPE PRODUCTS</b>			
1.			
2.			

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.

I understand these products may have to be removed if approval cannot be demonstrated during inspection

\_\_\_\_\_

\_\_\_\_\_

  
 Contractor or Contractor's Authorized Agent Signature

Josh Sparks 3/13/09  
 Print Name Date

Location

Permit # (FOR STAFF USE ONLY)



• Engineering  
• Geotechnical  
• Environmental  
Laboratories

## Cal-Tech Testing, Inc.

P.O. Box 1625 • Lake City, FL 32058-1625 • Tel(386)755-3633 • Fax(386)752-5456  
4784 Rosselle St., Jacksonville, FL 32254 • Tel(904)381-8901 • Fax(904)381-8902

SP# 27697

### REPORT OF IN-PLACE DENSITY TEST

JOB NO.: 09-140  
DATE TESTED: 4/3/09  
DATE REPORTED: 4/7/09

PROJECT:	Frank Thomas Residence
CLIENT:	Sparks Contractors, Inc., P.O. Box 1479, Lake City, FL 32058
GENERAL CONTRACTOR:	SAC
EARTHWORK CONTRACTOR:	SAC
INSPECTOR:	C. Day
ASTM METHOD (D-2922) Nuclear	SOIL USE 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	S.E. Corner 10'W x 12'N	0-12"	107.6	6.0	101.5	1	101.8	100%
2	N.E. Corner 12'S x 10'W	0-12"	108.1	5.8	102.2	1	101.8	100%
3	N.W. Corner 15'E x 10'S	0-12"	108.2	8.1	100.1	1	101.8	98%
4	S.W. Corner 10'N x 10'E	0-12"	108.9	8.3	100.6	1	101.8	99%

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	Tan Fine Sand	101.8	9.7	MODIFIED (ASTM D-1557)

Respectfully Submitted,  
CAL-TECH TESTING, INC.

Reviewed By:

Linda M. Creamer  
President - CEO

Date:  
Licensed, Florida No: 57842

The test results presented in this report are specific only to the samples tested at the time of testing. The tests were performed in accordance with generally accepted methods and standards. Since material conditions can vary between test locations and change with time, sound judgement should be exercised with regard to the use and interpretation of the data.





- Engineering
  - Geotechnical
  - Environmental
- Laboratories

## Cal-Tech Testing, Inc.

P.O. Box 1625 • Lake City, FL 32056-1625 • Tel(386)755-3833 • Fax(386)752-5456  
4784 Roselle St., Jacksonville, FL 32254 • Tel(904)381-8901 • Fax(904)381-8902

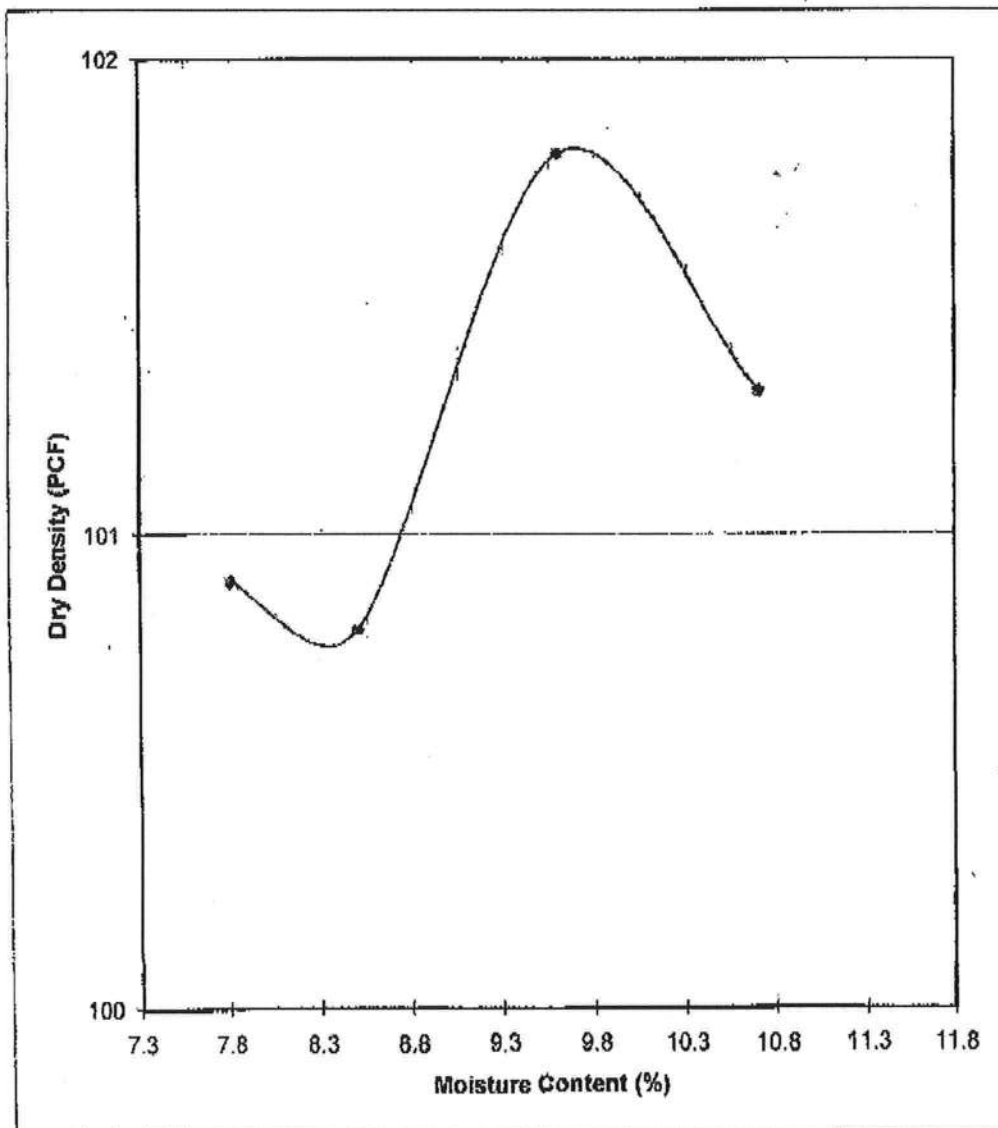
### REPORT OF LABORATORY COMPACTION TEST

Client:  
Project Name:  
Project Location:  
Contractor:

Sparks Contractors, Inc., P.O. Box 1479, Lake City, FL 32056  
Frank Thomas Residence  
High Springs, FL  
SAC

File No: 09-140  
Date: 4/7/2009  
Lab No: 12160

**PRELIMINARY**



#### PROCTOR DATA

Proctor No.: 1

Modified Proctor ☒  
(ASTM D-1557)

Standard Proctor ☐  
(ASTM D-698)

Maximum Dry  
Dens. Pcf: 102

Optimum Moisture  
Percent: 10

The test results presented in this report are specific only to the samples tested at the time of testing. The tests were performed in accordance with generally accepted methods and standards. Since material conditions can vary between test locations and change with time, sound judgement should be exercised with regard to the use and interpretation of the data.

Sample Description:  
Sample Location:  
Proposed Use:  
Sampled By:  
Tested By:  
Remarks:

Tan Fine Sand  
Stockpile on Site  
House Pad #11  
C. Day Date: 4/3/2009  
M. Ayers Date: 4/6/2009  
1cc: Client  
1cc: File

Linda M. Creamer  
President - CEO  
Reviewed By:  
Date:  
Licensed, Florida No: 57842