

DATE 04/27/2004

# Columbia County Building Permit

PERMIT

This Permit Expires One Year From the Date of Issue

000021803

APPLICANT GARY W. THOMPSON PHONE 386.935.2118  
ADDRESS 3554 256TH STREET O'BRIEN FL 32071  
OWNER RONALD & LAUREL BIRD PHONE 305.251.9658  
ADDRESS 14221 SW TUSTENUGGEE AVENUE FT. WHITE FL 32038  
CONTRACTOR GARY W. THOMPSON PHONE 386.935.2118  
LOCATION OF PROPERTY TUSTENUGGEE ROAD SOUTH, 200 YARDS BEFORE C-18 ON LEFT, GO THROUGH GATE.

TYPE DEVELOPMENT GARAGE & UTILITY ESTIMATED COST OF CONSTRUCTION 93500.00  
HEATED FLOOR AREA                      TOTAL AREA                      HEIGHT .00 STORIES                       
FOUNDATION                      WALLS                      ROOF PITCH                      FLOOR                       
LAND USE & ZONING A-3 MAX. HEIGHT 35  
Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00  
NO. EX.D.U.                      FLOOD ZONE X DEVELOPMENT PERMIT NO.                     

PARCEL ID 30-6S-17-09813-015 SUBDIVISION CARTER UNREC.  
LOT 8 BLOCK                      PHASE                      UNIT                      TOTAL ACRES                     

CRC046869  
Culvert Permit No.                      Culvert Waiver                      Contractor's License Number                      Applicant/Owner/Contractor                       
EXISTING 04-0287-N BLK                      JDK                       
Driveway Connection                      Septic Tank Number                      LU & Zoning checked by                      Approved for Issuance                      New Resident                     

COMMENTS: 1 FOOT ABOVE ROAD

NOC ON FILE

DETACHED                      Check # or Cash 7726

## FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

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

BUILDING PERMIT FEE \$ 470.00 CERTIFICATION FEE \$ .00 SURCHARGE FEE \$ .00  
MISC. FEES \$ .00 ZONING CERT. FEE \$ 50.00 FIRE FEE \$                      WASTE FEE \$                       
FLOOD ZONE DEVELOPMENT FEE \$                      CULVERT FEE \$                      TOTAL FEE 520.00

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."

### This Permit Must Be Prominently Posted on Premises During Construction

PLEASE NOTIFY THE COLUMBIA COUNTY BUILDING DEPARTMENT AT LEAST 24 HOURS IN ADVANCE OF EACH INSPECTION, IN ORDER THAT IT MAY BE MADE WITHOUT DELAY OR INCONVIENCE, PHONE 758-1008. THIS PERMIT IS NOT VALID UNLESS THE WORK AUTHORIZED BY IT IS COMMENCED WITHIN 6 MONTHS AFTER ISSUANCE.

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

# COLUMBIA COUNTY OFFICE OF OCCUPANCY

## COLUMBIA COUNTY, FLORIDA

### Department of Building and Zoning Inspection

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

Parcel Number 30-6S-17-09813-015

Building permit No. 000021803

Use Classification GARAGE & UTILITY

Fire: \_\_\_\_\_

Permit Holder GARY W. THOMPSON

Waste: \_\_\_\_\_

Owner of Building RONALD & LAUREL BIRD

Total: .00

Location: 14221 SW TUSTENUGGEE AVE, FT. WHITE

Date: 01/03/2005

Building Inspector



POST IN A CONSPICUOUS PLACE  
(Business Places Only)



Application Approved by - Zoning Official BLK Date 4/14/04 Plans Examiner \_\_\_\_\_ Date \_\_\_\_\_  
 Flood Zone X per side plan Development Permit N/A Zoning A-3 Land Use Plan Map Category A-3  
 Comments \_\_\_\_\_

21803  
CHARGE: PEN COST 2 CONSTRUCTION (PEN JAK)

Applicants Name GARY W. THOMPSON Phone (386) 935-2118  
 Address 3554 256 ST. O'BRIEN, FL. 32071  
 Owners Name RONALD N. & LAUREL N. BIRD Phone (305) 251-9658  
 911 Address 17101 SW. 160<sup>th</sup> AVE MIAMI, FL. 33187-4925  
 Contractors Name GARY W. THOMPSON CONST. INC. Phone (386) 935-2118  
 Address 3554 256 ST. O'BRIEN, FL. 32071  
 Fee Simple Owner Name & Address \_\_\_\_\_  
 Bonding Co. Name & Address \_\_\_\_\_  
 Architect/Engineer Name & Address GARY GILL 8878 CR 417 LIVE OAK, FL. (386) 364-8354  
 Mortgage Lenders Name & Address CAPITAL CITY BANK, BRANFORD, FL. (386) 935-1112  
 Property ID Number R-30-65-176-09813-015 Estimated Cost of Construction \$93,500<sup>00</sup>  
 Subdivision Name N/A Lot \_\_\_\_\_ Block \_\_\_\_\_ Unit \_\_\_\_\_ Phase \_\_\_\_\_  
 Driving Directions TUSTENUBURGEE RD SOUTH 200 YARDS BEFORE CR 18  
ON LEFT. GO THRU GATE  
(CHARGE)  
 Type of Construction SINGLE FAMILY, NEW CONSTRUCTION Number of Existing Dwellings on Property - 0 -  
 Total Acreage 13.61 Lot Size \_\_\_\_\_ Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive  
 Actual Distance of Structure from Property Lines - Front 675' Side 400' Side 319.6' Rear 87.1'  
 Total Building Height 25'-2" Number of Stories 1 Heated Floor Area 360 Roof Pitch 8/12-4/12

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

OWNERS AFFIDAVIT: 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.

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

Laurel N. Bird  
 Owner Builder or Agent (Including Contractor)

STATE OF FLORIDA  
 COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me  
 this 16<sup>th</sup> day of March 2004.  
 Personally known ✓ or Produced Identification -

Contractor Signature HATTIE MCINTYRE RAY  
 Contractors License Number 942504  
 Competency Card Number EXPIRES: Jun 5, 2004  
 1-800-3-NOTARY FL Notary Service & Bonding, Inc.

NOTARY STAMP/SEAL

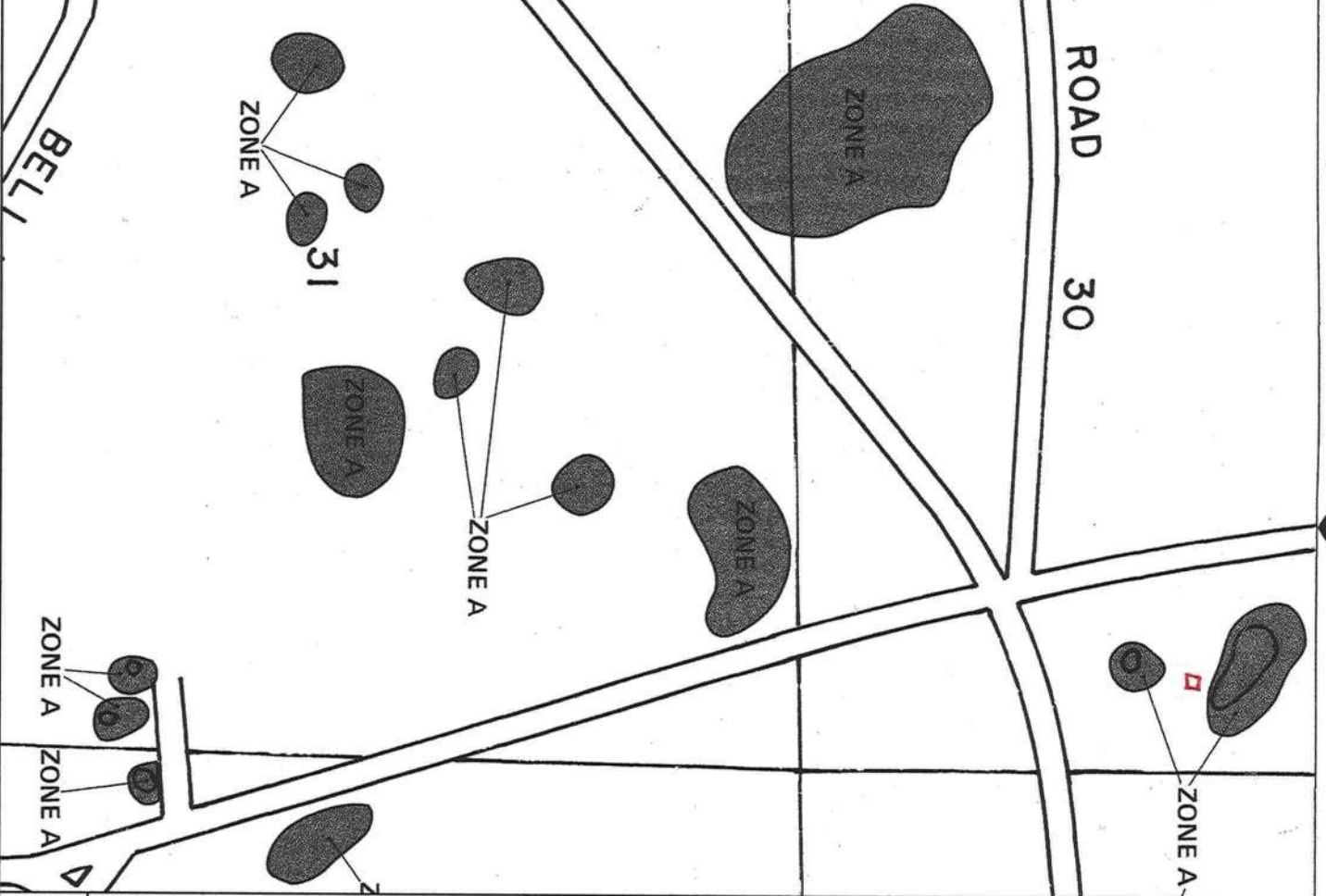
Hattie McIntyre Ray  
 Notary Signature

0404-48

R 16 E  
R 17 E

ROAD 30

BELL



APPROXIMATE SCALE IN FEET



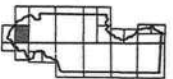
NATIONAL FLOOD INSURANCE PROGRAM

**FIRM**  
FLOOD INSURANCE RATE MAP

COLUMBIA  
COUNTY,  
FLORIDA  
(UNINCORPORATED AREAS)

PANEL 260 OF 290

PANEL LOCATION



COMMUNITY-PANEL NUMBER  
120070 0260 B

EFFECTIVE DATE:  
JANUARY 6, 1988



Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT Version 1.0. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. Further information about National Flood Insurance Program flood hazard maps is available at [www.fema.gov/nifm](http://www.fema.gov/nifm).







STATE OF FLORIDA  
DEPARTMENT OF HEALTH

APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 04-0287N

PART II - SITE PLAN

Scale: Each block represents 5 feet and 1 inch = 50 feet.

Notes: See attached

Site Plan submitted by: X

Plan Approved X

By [Signature]

Signature

Not Approved \_\_\_\_\_

Title

Date 3-10-84

Columbia County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

**COLUMBIA COUNTY 9-1-1 ADDRESSING**

263 NW Lake City Ave. \* P. O. Box 2949 \* Lake City, FL 32056-2949

PHONE: (386) 752-8787 \* FAX: (386) 758-1365 \* Email: ron\_croft@columbiacountyfla.com

**Addressing Maintenance**

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

DATE ISSUED: March 10, 2004

ENHANCED 9-1-1 ADDRESS:

14221 SW TUSTENUGGEE AVE (FORT WHITE, FL 32038)Addressed Location 911 Phone Number: NOT AVAIL.OCCUPANT NAME: NOT AVAIL.

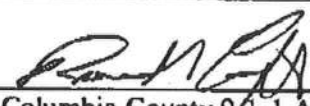
OCCUPANT CURRENT MAILING ADDRESS: \_\_\_\_\_

PROPERTY APPRAISER MAP SHEET NUMBER: 105PROPERTY APPRAISER PARCEL NUMBER: 30-6S-17-09813-015

Other Contact Phone Number (If any): \_\_\_\_\_

Building Permit Number (If known): \_\_\_\_\_

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

Address Issued By: 

Columbia County 9-1-1 Addressing Department

**COLUMBIA COUNTY  
9-1-1 ADDRESSING  
APPROVED**

## **COLUMBIA COUNTY 9-1-1 ADDRESSING**

263 NW Lake City Ave. \* P. O. Box 2949 \* Lake City, FL 32056-2949  
PHONE: (386) 752-8787 \* FAX: (386) 758-1365 \* Email: ron\_croft@columbiacountyfla.com

### **Addressing Maintenance**

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

**DATE ISSUED: March 10, 2004**

**ENHANCED 9-1-1 ADDRESS:**

**14221 SW TUSTENUGGEE AVE (FORT WHITE, FL 32038)**



CAM112M01 S CamaUSA Appraisal System  
3/08/2004 11:23 Legal Description Maintenance  
Year T Property Sel  
2004 R 30-6S-17-09813-015

Columbia County  
38080 Land 001  
AG 000  
Bldg 000  
Xfea 000  
38080 TOTAL B\*

--  
BIRD RONALD W & LAUREL N

|    |                                |                                |    |
|----|--------------------------------|--------------------------------|----|
| 1  | THAT PART OF NE1/4 OF SE1/4    | LYING E OF CR-131, EX THE EAST | 2  |
| 3  | 331.99 FT & EX THE N 83.57 FT  | & THAT PART OF S1/2 OF S1/2 OF | 4  |
| 5  | SEC AS LIES E OF CR-131 & N OF | CR-18, EX 8 AC DESC IN ORB     | 6  |
| 7  | 788-955. ORB 547-405.          | (AKA PART OF LOT 8 CARTER S/D  | 8  |
| 9  | UNREC) ORB 547-405, 829-2414,  | 874-2233, 905-2152             | 10 |
| 11 |                                |                                | 12 |
| 13 |                                |                                | 14 |
| 15 |                                |                                | 16 |
| 17 |                                |                                | 18 |
| 19 |                                |                                | 20 |
| 21 |                                |                                | 22 |
| 23 |                                |                                | 24 |
| 25 |                                |                                | 26 |
| 27 |                                |                                | 28 |

Mnt 8/01/2000 JEFF

F1=Task F3=Exit F4=Prompt F10=GoTo PGUP/PGDN F24=MoreKeys

ATS 25281

This instrument prepared by:  
Michael H. Harrell  
111 East Howard Street  
Live Oak, FL 32060

### NOTICE OF COMMENCEMENT

#### TO WHOM IT MAY CONCERN:

The undersigned hereby give notice that improvements will be made to certain real property and in accordance with Chapter 713.13, Florida Statutes, the following is provided in this Notice of Commencement:

- 1) Construction of single family dwelling, to be made to real property located at: Off SR 131, Columbia County, Florida, more fully described as: SEE EXHIBIT "A" ATTACHED HERETO AND BY THIS REFERENCE MADE A PART HEREOF.
- 2) The name and address of the undersigned owner is: RONALD W. BIRD AND WIFE, LAUREL N. BIRD, 17101 SW 160<sup>TH</sup> AVENUE, MIAMI, FLORIDA 33187, and the interest of the undersigned owner in the property is: FEE SIMPLE.

The name and address of the contractor is: GARY W. THOMPSON  
3554 256<sup>TH</sup> STREET, O'BRIEN, FL 32071

The name and address of surety bond is: N/A

- 3) L. L. McMULLEN, JR., P.O. BOX 447, BRANFORD, FLORIDA, 32008, is hereby designated in lieu of the undersigned owner as the person to whom notices or other documents under the Florida Mechanics Law shall be served, and service upon her shall constitute service upon owner.
- 4) Michael H. Harrell, whose address is 111 East Howard Street, Live Oak, FL 32064 which is designated the person in addition to said owner or the person designated in Paragraph 3 to receive a copy of the Notice to Owner as provided in Section 713.06(2)(b) Florida Statutes.
- 5) Expiration date of Notice of Commencement (the expiration date is 1 year from the date of recording unless a different date is specified).

\*Owner is used for singular or plural as context requires.

Signed, sealed and delivered in the presence:

Barry Brown  
1<sup>st</sup> witness Barry Brown  
Nick Cabrera  
2<sup>nd</sup> witness Nick Cabrera

Ronald W. Bird  
RONALD W. BIRD  
Laurel N. Bird  
LAUREL N. BIRD

State of Florida  
County of Miami-Dade

Before me, personally appeared RONALD W. BIRD AND WIFE, LAUREL N. BIRD, known to be the person(s) described in and who executed the foregoing instrument, and they acknowledged to and before me that they executed said instrument for the purpose therein expressed.

Witness my hand and official seal this 7 day of APRIL, 2004<sup>mb</sup>

Angela D Bostick  
Notary Public

My commission expires: June 18, 2006

(SEAL)

OFFICIAL NOTARY SEAL  
ANGELA D BOSTICK  
NOTARY PUBLIC STATE OF FLORIDA  
COMMISSION NO. DD127096  
MY COMMISSION EXP. JUNE 18, 2006

STATE OF FLORIDA, COUNTY OF COLUMBIA  
I HEREBY CERTIFY that the above and foregoing  
is a true copy of the original filed in this office.  
P. DeWitt CASON, CLERK OF COURTS

By Donna Dean  
Deputy Clerk  
Date 4/13/04



ATS # 25281

EXHIBIT "A"

That part of the NE  $\frac{1}{4}$  of the SE  $\frac{1}{4}$ , Section 30, Township 6 South, Range 17 East, lying East of State Road No. 131 and North of State Road No. 18, Less and Except the East 331.99 feet thereof, and less and except the North 83.57 feet thereof. Also: That part of the S  $\frac{1}{2}$  of S  $\frac{1}{2}$  of Section 30 as lies East of State Road No. 131 and North of State Road No. 18, Columbia County, Florida. Subject to Power line Easements in visible use and existence. Also known as: Lot 8, Carter Subdivision, unrecorded.

Also, Less and Except:

Commence at the NE corner of the SE  $\frac{1}{4}$  of Section 30, Township 6 South, Range 17 East, Columbia County, Florida; thence S  $89^{\circ}56'29''$  W, along the North line of said SE  $\frac{1}{4}$  a distance of 331.99 feet to a point on the West line of the East 331.99 feet of the NE  $\frac{1}{4}$  of the said SE  $\frac{1}{4}$ ; thence S  $00^{\circ}31'37''$  E, along said West line, 763.90 feet to the Point of Beginning; thence continue S  $00^{\circ}31'37''$  E, along said West line 457.74 feet to a point on the North line of County Road No. 18, said point being on the arc of a curve concave to the South and having a radius of 3869.83 feet and a central angle of  $08^{\circ}37'33''$ ; thence Southwesterly along the arc of said curve an arc distance of 582.60 feet to the Point of Tangency of said curve; thence along the arc of a curve concave to the Northeast, having a radius of 50.00 feet and a central angle of  $98^{\circ}28'07''$ , and arc distance of 85.93 feet to its Point of Tangency with the Easterly line of County Road 131; thence N  $13^{\circ}44'32''$  W, along said Easterly line a distance of 434.62 feet to a Point of Transition in said Easterly line; thence N  $76^{\circ}15'28''$  E, 7.00 feet; thence N  $13^{\circ}44'32''$  W along said Easterly line, 88.16 feet; thence N  $82^{\circ}48'22''$  E, 740.43 feet to the Point of Beginning.



# FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs  
Residential Whole Building Performance Method A

Project Name: **R.W. Bird Garage**  
Address:  
City, State: **, 32064-**  
Owner: **R.W. Bird**  
Climate Zone: **North**

Builder:  
Permitting Office: **COLUMBIA**  
Permit Number: **21803**  
Jurisdiction Number: **221000**

- |  |                               |     |
|--|-------------------------------|-----|
| 1. New construction or existing              | New                           | ___ |
| 2. Single family or multi-family             | Single family                 | ___ |
| 3. Number of units, if multi-family          | 1                             | ___ |
| 4. Number of Bedrooms                        | 1                             | ___ |
| 5. Is this a worst case?                     | Yes                           | ___ |
| 6. Conditioned floor area (ft <sup>2</sup> ) | 360 ft <sup>2</sup>           | ___ |
| 7. Glass area & type                         |                               | ___ |
| a. Clear - single pane                       | 49.0 ft <sup>2</sup>          | ___ |
| b. Clear - double pane                       | 0.0 ft <sup>2</sup>           | ___ |
| c. Tint/other SHGC - single pane             | 0.0 ft <sup>2</sup>           | ___ |
| d. Tint/other SHGC - double pane             | 0.0 ft <sup>2</sup>           | ___ |
| 8. Floor types                               |                               | ___ |
| a. Slab-On-Grade Edge Insulation             | R=0.0, 80.0(p) ft             | ___ |
| b. N/A                                       |                               | ___ |
| c. N/A                                       |                               | ___ |
| 9. Wall types                                |                               | ___ |
| a. Frame, Wood, Exterior                     | R=13.0, 481.0 ft <sup>2</sup> | ___ |
| b. N/A                                       |                               | ___ |
| c. N/A                                       |                               | ___ |
| d. N/A                                       |                               | ___ |
| e. N/A                                       |                               | ___ |
| 10. Ceiling types                            |                               | ___ |
| a. Under Attic                               | R=30.0, 360.0 ft <sup>2</sup> | ___ |
| b. N/A                                       |                               | ___ |
| c. N/A                                       |                               | ___ |
| 11. Ducts                                    |                               | ___ |
| a. N/A                                       |                               | ___ |
| b. N/A                                       |                               | ___ |

- |  |                     |     |
|--|---------------------|-----|
| 12. Cooling systems                    |                     |     |
| a. PTAC and Room Unit                  | Cap: 12.0 kBtu/hr   | ___ |
|  | EER: 9.00, Unducted | ___ |
| b. N/A                                 |                     | ___ |
| c. N/A                                 |                     | ___ |
| 13. Heating systems                    |                     |     |
| a. PTHP                                | Cap: 12.0 kBtu/hr   | ___ |
|  | COP: 2.60           | ___ |
| b. N/A                                 |                     | ___ |
| c. N/A                                 |                     | ___ |
| 14. Hot water systems                  |                     |     |
| a. Electric Resistance                 | Cap: 40.0 gallons   | ___ |
|  | EF: 0.88            | ___ |
| b. N/A                                 |                     | ___ |
| c. Conservation credits                |                     | ___ |
| (HR-Heat recovery, Solar               |                     | ___ |
| DHP-Dedicated heat pump)               |                     | ___ |
| 15. HVAC credits                       | CF, ___             |     |
| (CF-Ceiling fan, CV-Cross ventilation, |                     |     |
| HF-Whole house fan,                    |                     |     |
| PT-Programmable Thermostat,            |                     |     |
| MZ-C-Multizone cooling,                |                     |     |
| MZ-H-Multizone heating)                |                     |     |

Glass/Floor Area: 0.14

Total as-built points: 6094

Total base points: 7064

**PASS**

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

PREPARED BY: Gary Gill

DATE: 2/18/04

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: \_\_\_\_\_

# SUMMER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: , , , 32064-

PERMIT #:

| BASE  |         |       |         | AS-BUILT  |                          |      |                     |                           |             |                 |       |
|---|---------|-------|---------|---|--------------------------|------|---------------------|---------------------------|-------------|-----------------|-------|
| <b>GLASS TYPES</b>  |         |       |         |   |                          |      |                     |                           |             |                 |       |
| .18 X Conditioned X BSPM = Points<br>Floor Area             |         |       |         | Type/SC   | Overhang<br>Ornt Len Hgt |      |                     | Area X SPM X SOF = Points |             |                 |       |
| .18   | 360.0   | 20.04 | 1298.6  | Single, Clear   | E                        | 2.0  | 7.0                 | 15.0                      | 44.69       | 0.89            | 593.9 |
|   |         |       |         | Single, Clear   | S                        | 2.0  | 5.0                 | 18.0                      | 38.10       | 0.72            | 496.1 |
|   |         |       |         | Single, Clear   | E                        | 2.0  | 6.0                 | 16.0                      | 44.69       | 0.85            | 606.4 |
|   |         |       |         | As-Built Total:   |                          | 49.0 |                     |                           | 1696.4      |                 |       |
| <b>WALL TYPES</b> Area X BSPM = Points                      |         |       |         | Type  | R-Value                  |      |                     | Area X SPM = Points       |             |                 |       |
| Adjacent  | 0.0     | 0.00  | 0.0     | Frame, Wood, Exterior   | 13.0                     |      |                     | 481.0                     | 1.50        | 721.5           |       |
| Exterior  | 481.0   | 1.70  | 817.7   |   |                          |      |                     |                           |             |                 |       |
| Base Total:   |         |       |         | 481.0   |                          |      | 817.7               |                           |             | As-Built Total: |       |
|   |         |       |         | 481.0   |                          |      | 721.5               |                           |             |                 |       |
| <b>DOOR TYPES</b> Area X BSPM = Points                      |         |       |         | Type  | R-Value                  |      |                     | Area X SPM = Points       |             |                 |       |
| Adjacent  | 0.0     | 0.00  | 0.0     | Exterior Wood   |                          |      |                     | 42.0                      | 6.10        | 256.2           |       |
| Exterior  | 42.0    | 6.10  | 256.2   |   |                          |      |                     |                           |             |                 |       |
| Base Total:   |         |       |         | 42.0  |                          |      | 256.2               |                           |             | As-Built Total: |       |
|   |         |       |         | 42.0  |                          |      | 256.2               |                           |             |                 |       |
| <b>CEILING TYPES</b> Area X BSPM = Points                   |         |       |         | Type  | R-Value                  |      |                     | Area X SPM X SCM = Points |             |                 |       |
| Under Attic   | 360.0   | 1.73  | 622.8   | Under Attic   | 30.0                     |      |                     | 360.0                     | 1.73 X 1.00 | 622.8           |       |
| Base Total:   |         |       |         | 360.0   |                          |      | 622.8               |                           |             | As-Built Total: |       |
|   |         |       |         | 360.0   |                          |      | 622.8               |                           |             |                 |       |
| <b>FLOOR TYPES</b> Area X BSPM = Points                     |         |       |         | Type  | R-Value                  |      |                     | Area X SPM = Points       |             |                 |       |
| Slab  | 80.0(p) | -37.0 | -2960.0 | Slab-On-Grade Edge Insulation   | 0.0                      |      |                     | 80.0(p)                   | -41.20      | -3296.0         |       |
| Raised  | 0.0     | 0.00  | 0.0     |   |                          |      |                     |                           |             |                 |       |
| Base Total:   |         |       |         | -2960.0   |                          |      | As-Built Total:     |                           |             | 80.0            |       |
|   |         |       |         | -2960.0   |                          |      | -3296.0             |                           |             |                 |       |
| <b>INFILTRATION</b> Area X BSPM = Points                    |         |       |         |   |                          |      | Area X SPM = Points |                           |             |                 |       |
| 360.0 10.21 3675.6  |         |       |         |   |                          |      | 360.0 10.21         |                           |             | 3675.6          |       |
| <b>Summer Base Points: 3710.9</b>                           |         |       |         | <b>Summer As-Built Points: 3676.5</b>   |                          |      |                     |                           |             |                 |       |
| Total Summer X System = Cooling<br>Points Multiplier Points |         |       |         | Total X Cap X Duct X System X Credit = Cooling<br>Component Ratio Multiplier Multiplier Multiplier Points<br>(DM x DSM x AHU) |                          |      |                     |                           |             |                 |       |
| 3710.9 0.4266 1583.1  |         |       |         | 3676.5 1.000(1.00 x 0.000 x 1.00 0.379 0.950 1323.3<br>3676.5 1.00 1.000 0.379 0.950 1323.3                                   |                          |      |                     |                           |             |                 |       |

# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: , , , 32064-

PERMIT #:

| BASE  |         |                   |                  | AS-BUILT                              |                          |             |                                   |                           |               |                   |       |                                    |
|---|---------|-------------------|------------------|---------------------------------------|--------------------------|-------------|-----------------------------------|---------------------------|---------------|-------------------|-------|------------------------------------|
| <b>GLASS TYPES</b>                              |         |                   |                  |                                       |                          |             |                                   |                           |               |                   |       |                                    |
| .18 X Conditioned X BWPM = Points<br>Floor Area |         |                   |                  | Type/SC                               | Overhang<br>Ornt Len Hgt |             | Area X WPM X WOF = Points         |                           |               |                   |       |                                    |
| .18   | 360.0   | 12.74             | 825.6            | Single, Clear                         | E                        | 2.0         | 7.0                               | 15.0                      | 21.24         | 1.05              | 333.1 |                                    |
|   |         |                   |                  | Single, Clear                         | S                        | 2.0         | 5.0                               | 18.0                      | 15.43         | 1.40              | 388.9 |                                    |
|   |         |                   |                  | Single, Clear                         | E                        | 2.0         | 6.0                               | 16.0                      | 21.24         | 1.06              | 360.4 |                                    |
|   |         |                   |                  | <b>As-Built Total:</b>                |                          |             |                                   | <b>49.0</b>               | <b>1082.4</b> |                   |       |                                    |
| <b>WALL TYPES</b> Area X BWPM = Points          |         |                   |                  | Type                                  |                          |             | R-Value                           | Area X WPM = Points       |               |                   |       |                                    |
| Adjacent  | 0.0     | 0.00              | 0.0              | Frame, Wood, Exterior                 |                          |             | 13.0                              | 481.0                     | 3.40          | 1635.4            |       |                                    |
| Exterior  | 481.0   | 3.70              | 1779.7           |                                       |                          |             |                                   |                           |               |                   |       |                                    |
| <b>Base Total:</b>                              |         |                   |                  | <b>As-Built Total:</b>                |                          |             |                                   | <b>481.0</b>              | <b>1635.4</b> |                   |       |                                    |
| <b>DOOR TYPES</b> Area X BWPM = Points          |         |                   |                  | Type                                  |                          |             |                                   | Area X WPM = Points       |               |                   |       |                                    |
| Adjacent  | 0.0     | 0.00              | 0.0              | Exterior Wood                         |                          |             |                                   | 42.0                      | 12.30         | 516.6             |       |                                    |
| Exterior  | 42.0    | 12.30             | 516.6            |                                       |                          |             |                                   |                           |               |                   |       |                                    |
| <b>Base Total:</b>                              |         |                   |                  | <b>As-Built Total:</b>                |                          |             |                                   | <b>42.0</b>               | <b>516.6</b>  |                   |       |                                    |
| <b>CEILING TYPES</b> Area X BWPM = Points       |         |                   |                  | Type                                  |                          |             | R-Value                           | Area X WPM X WCM = Points |               |                   |       |                                    |
| Under Attic                                     | 360.0   | 2.05              | 738.0            | Under Attic                           |                          |             | 30.0                              | 360.0                     | 2.05 X 1.00   | 738.0             |       |                                    |
| <b>Base Total:</b>                              |         |                   |                  | <b>As-Built Total:</b>                |                          |             |                                   | <b>360.0</b>              | <b>738.0</b>  |                   |       |                                    |
| <b>FLOOR TYPES</b> Area X BWPM = Points         |         |                   |                  | Type                                  |                          |             | R-Value                           | Area X WPM = Points       |               |                   |       |                                    |
| Slab  | 80.0(p) | 8.9               | 712.0            | Slab-On-Grade Edge Insulation         |                          |             | 0.0                               | 80.0(p)                   | 18.80         | 1504.0            |       |                                    |
| Raised  | 0.0     | 0.00              | 0.0              |                                       |                          |             |                                   |                           |               |                   |       |                                    |
| <b>Base Total:</b>                              |         |                   |                  | <b>As-Built Total:</b>                |                          |             |                                   | <b>80.0</b>               | <b>1504.0</b> |                   |       |                                    |
| <b>INFILTRATION</b> Area X BWPM = Points        |         |                   |                  |                                       |                          |             |                                   | Area X WPM = Points       |               |                   |       |                                    |
|   |         |                   |                  |                                       |                          |             |                                   |                           |               |                   |       |                                    |
|   |         |                   |                  |                                       |                          |             |                                   |                           |               |                   |       |                                    |
|   |         |                   |                  |                                       |                          |             |                                   |                           |               |                   |       |                                    |
| <b>Winter Base Points: 4359.5</b>               |         |                   |                  | <b>Winter As-Built Points: 5264.0</b> |                          |             |                                   |                           |               |                   |       |                                    |
| Total Winter Points                             | X       | System Multiplier | = Heating Points | Total Component                       | X                        | Cap Ratio   | X                                 | Duct Multiplier           | X             | System Multiplier | X     | Credit Multiplier = Heating Points |
|   |         |                   |                  | (DM x DSM x AHU)                      |                          |             |                                   |                           |               |                   |       |                                    |
| <b>4359.5</b>                                   |         | <b>0.6274</b>     | <b>2735.1</b>    | <b>5264.0</b>                         |                          | <b>1.00</b> | <b>1.000(1.00 x 0.000 x 1.00)</b> | <b>0.385</b>              |               | <b>1.000</b>      |       | <b>2024.6</b>                      |
|   |         |                   |                  |                                       |                          |             |                                   |                           |               |                   |       |                                    |



# Code Compliance Checklist

## Residential Whole Building Performance Method A - Details

ADDRESS: , , , 32064-

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.<br>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.<br>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 6-12. 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.<br>Common ceiling & floors R-11.  |       |

# Summary Energy Code Results

## Residential Whole Building Performance Method A

R.W. Bird

, 32064-

Project Title:  
R.W. Bird Garage

Class 3 Rating  
Registration No. 0  
Climate: North

02/17/04

| Building Loads |                     |            |                     |
|----------------|---------------------|------------|---------------------|
| Base           |                     | As-Built   |                     |
| Summer:        | <b>3711 points</b>  | Summer:    | <b>3677 points</b>  |
| Winter:        | <b>4359 points</b>  | Winter:    | <b>5264 points</b>  |
| Hot Water:     | <b>2416 points</b>  | Hot Water: | <b>2416 points</b>  |
| Total:         | <b>10487 points</b> | Total:     | <b>11357 points</b> |

| Energy Use |                    |            |                    |
|------------|--------------------|------------|--------------------|
| Base       |                    | As-Built   |                    |
| Cooling:   | <b>1583 points</b> | Cooling:   | <b>1323 points</b> |
| Heating:   | <b>2735 points</b> | Heating:   | <b>2025 points</b> |
| Hot Water: | <b>2746 points</b> | Hot Water: | <b>2746 points</b> |
| Total:     | <b>7064 points</b> | Total:     | <b>6094 points</b> |

**PASS**  
e-Ratio: 0.86