

DATE 02/12/2004**Columbia County Building Permit****PERMIT**

This Permit Expires One Year From the Date of Issue

000021509

APPLICANT VICKIE DUNCAN PHONE 623-0385  
 ADDRESS 890 SE APPLEWOOD GLENN FORT WHITE FL 32038  
 OWNER HENRY & VICKIE DUNCAN PHONE 623-0385  
 ADDRESS 890 SW APPLEWOOD GLENN FORT WHITE FL 32038  
 CONTRACTOR OWNER BUILDER PHONE \_\_\_\_\_  
 LOCATION OF PROPERTY 47 SOUTH, LEFT HERLONG, RIGHT OLD WIRE, LEFT APPLEWOOD TO  
END ON RIGHT

TYPE DEVELOPMENT SFD, UTILITY ESTIMATED COST OF CONSTRUCTION 96550.00  
 HEATED FLOOR AREA 1931.00 TOTAL AREA 1931.00 HEIGHT 20.80 STORIES 2  
 FOUNDATION CONCRETE WALLS FOAM/CONCR ROOF PITCH ROUND FLOOR SLAB  
 LAND USE & ZONING A-3 MAX. HEIGHT 35  
 Minimum Set Back Requirements: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00  
 NO. EX.D.U. 0 FLOOD ZONE X DEVELOPMENT PERMIT NO. \_\_\_\_\_

PARCEL ID 13-6S-16-03817-106 SUBDIVISION OLD WIRE RIDGE  
 LOT 6 BLOCK \_\_\_\_\_ PHASE \_\_\_\_\_ UNIT \_\_\_\_\_ TOTAL ACRES 10.00

Culvert Permit No. \_\_\_\_\_ Culvert Waiver \_\_\_\_\_ Contractor's License Number \_\_\_\_\_  
 PRIVATE ROAD 03-0956-N HD BK N  
 Driveway Connection \_\_\_\_\_ Septic Tank Number \_\_\_\_\_ LU & Zoning checked by \_\_\_\_\_ Approved for Issuance \_\_\_\_\_ New Resident \_\_\_\_\_

COMMENTS: NOC ON FILE, FLOOR 1 FOOT ABOVE THE ROADCheck # or Cash 651**FOR BUILDING & ZONING DEPARTMENT ONLY**

(Footer/Slab)

Temporary Power \_\_\_\_\_ date/app. by \_\_\_\_\_ Foundation \_\_\_\_\_ date/app. by \_\_\_\_\_ Monolithic \_\_\_\_\_ date/app. by \_\_\_\_\_  
 Under slab rough-in plumbing \_\_\_\_\_ date/app. by \_\_\_\_\_ Slab \_\_\_\_\_ date/app. by \_\_\_\_\_ Sheathing/Nailing \_\_\_\_\_ date/app. by \_\_\_\_\_  
 Framing \_\_\_\_\_ date/app. by \_\_\_\_\_ 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 \_\_\_\_\_  
 Permanent power \_\_\_\_\_ date/app. by \_\_\_\_\_ C.O. Final \_\_\_\_\_ date/app. by \_\_\_\_\_ Culvert \_\_\_\_\_ date/app. by \_\_\_\_\_  
 M/H tie downs, blocking, electricity and plumbing \_\_\_\_\_ date/app. by \_\_\_\_\_ Pool \_\_\_\_\_ date/app. by \_\_\_\_\_  
 Reconnection \_\_\_\_\_ date/app. by \_\_\_\_\_ Pump pole \_\_\_\_\_ date/app. by \_\_\_\_\_ Utility Pole \_\_\_\_\_ date/app. by \_\_\_\_\_  
 M/H Pole \_\_\_\_\_ date/app. by \_\_\_\_\_ Travel Trailer \_\_\_\_\_ date/app. by \_\_\_\_\_ Re-roof \_\_\_\_\_ date/app. by \_\_\_\_\_

BUILDING PERMIT FEE \$ 485.00 CERTIFICATION FEE \$ 9.65 SURCHARGE FEE \$ 9.65  
 MISC. FEES \$ .00 ZONING CERT. FEE \$ 50.00 FIRE FEE \$ \_\_\_\_\_ WASTE FEE \$ \_\_\_\_\_  
 FLOOD ZONE DEVELOPMENT FEE \$ \_\_\_\_\_ CULVERT FEE \$ \_\_\_\_\_ TOTAL FEE 554.30  
 INSPECTORS OFFICE L. H. [Signature] CLERKS OFFICE CH [Signature]

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 INCONVENIENCE, 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.

# Building Permit Application

Date 2-1-04

2/2/04

21509

Application No. 0402-02

Applicants Name & Address VICKIE L. DUNCAN Phone 623-0385

Owners Name & Address Applewood Glen Fort White FL 32038 Phone \_\_\_\_\_

Same AS Above

Fee Simple Owners Name & Address NA Phone \_\_\_\_\_

Contractors Name & Address NA Phone \_\_\_\_\_

Legal Description of Property 13-65-16-0000/00000 Lot 6 Old Wire Ridge

S/O Unrecorded NE 1/4 of NE 1/4 of SW 1/4 Section 13 T6-S R16-E

Location of Property Fort White, Columbia Co FL

Tax Parcel Identification No. 13-65-16-03817-106 Estimated Cost of Construction \$ 40,000. End

Type of Development SFD Number of Existing Dwellings on Property 0

Comprehensive Plan Map Category A-3 Zoning Map Category A-3

Building Height 20'8" Number of Stories 2 Floor Area 1 Total Acreage in Development 10

Distance From Property Lines (Set Backs) Front 295' Side 270 Rear 367 Street 490

Flood Zone X Certification Date N/A Development Permit N/A

Bonding Company Name & Address N/A

Architect/Engineer Name & Address N/A

Mortgage Lenders Name & Address N/A

Application is hereby made to obtain a permit to do the 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 will 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 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.

Vickie L. Duncan  
Owner or Agent (including contractor)

Contractor

Contractor License Number

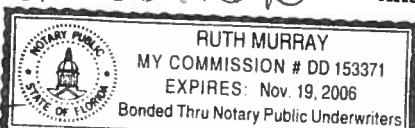
STATE OF FLORIDA  
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me  
his 2 day of February by Vickie L. Duncan

STATE OF FLORIDA  
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me  
this \_\_\_\_\_ day of \_\_\_\_\_ by \_\_\_\_\_

Ruth Murray



Personally Known \_\_\_\_\_ OR Produced Identification FDL D525870525820

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

# FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

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

Project Name: **34' HENRY DUNCAN DOME**  
 Address:  
 City, State: **FORT WHITE, FL 32038-**  
 Owner: **ROBERT HENRY & VICKI DUNCAN**  
 Climate Zone: **North**

Builder: Owner  
 Permitting Office: Columbia Co.  
 Permit Number: 21509  
 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>) 1931 ft<sup>2</sup> ☐
7. Glass area & type Single Pane Double Pane ☐
  - a. Clear glass, default U-factor 0.0 ft<sup>2</sup> 82.6 ft<sup>2</sup> ☐
  - b. Default tint 0.0 ft<sup>2</sup> 0.0 ft<sup>2</sup> ☐
  - c. Labeled U or SHGC 0.0 ft<sup>2</sup> 0.0 ft<sup>2</sup> ☐
8. Floor types ☐
  - a. Slab-On-Grade Edge Insulation R=0.0, 118.0(p) ft ☐
  - b. N/A ☐
  - c. N/A ☐
9. Wall types ☐
  - a. Concrete, Light Weight - Int Insul, Exterior R=27.0, 874.0 ft<sup>2</sup> ☐
  - b. Concrete, Int Insul, Exterior R=3.0, 100.0 ft<sup>2</sup> ☐
  - c. Frame, Wood, Exterior R=14.0, 212.0 ft<sup>2</sup> ☐
  - d. N/A ☐
  - e. N/A ☐
10. Ceiling types ☐
  - a. Single Assembly R=28.0, 850.0 ft<sup>2</sup> ☐
  - b. N/A ☐
  - c. N/A ☐
11. Ducts ☐
  - a. Sup: Con. Ret: Con. AH: Interior Sup. R=3.6, 58.0 ft ☐
  - b. N/A ☐

12. Cooling systems ☐
  - a. Central Unit Cap: 18.0 kBtu/hr  
SEER: 10.00 ☐
  - b. N/A ☐
  - c. N/A ☐
13. Heating systems ☐
  - a. Electric Strip Cap: 10.0 kBtu/hr  
COP: 1.00 ☐
  - b. N/A ☐
  - c. N/A ☐
14. Hot water systems ☐
  - a. Electric Resistance Cap: 40.0 gallons  
EF: 0.90 ☐
  - b. N/A ☐
  - c. Conservation credits ☐

(HR-Heat recovery, Solar  
DHP-Dedicated heat pump)
15. HVAC credits PT, ☐ ☐

(CF-Ceiling fan, CV-Cross ventilation,  
HF-Whole house fan,  
PT-Programmable Thermostat,  
MZ-C-Multizone cooling,  
MZ-H-Multizone heating)

Glass/Floor Area: 0.04

Total as-built points: 17851

Total base points: 21199

# PASS

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

PREPARED BY: Michael Busiak  
 DATE: 1/27/04 #672

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: \_\_\_\_\_



**WATER HEATING & CODE COMPLIANCE STATUS**

## Residential Whole Building Performance Method A - Details

ADDRESS: , FORT WHITE, FL, 32038-

PERMIT #:

| BASE                  |   |            |         | AS-BUILT        |      |                       |            |  |             |
|-----------------------|---|------------|---------|-----------------|------|-----------------------|------------|--|-------------|
| <b>WATER HEATING</b>  |   |            |         |                 |      |                       |            |  |             |
| Number of<br>Bedrooms | X | Multiplier | = Total | Tank<br>Volume  | EF   | Number of<br>Bedrooms | X<br>Ratio | Tank X<br>Multiplier X<br>Credit = Total<br>Multiplier |             |
| 1                     |   | 2746.00    | 2746.0  | 40.0            | 0.90 | 1                     | 1.00       | 2684.98  | 1.00 2685.0 |
|                       |   |            |         | As-Built Total: |      |                       |            |  | 2685.0      |

| CODE COMPLIANCE STATUS |   |                   |   |                   |   |                   |   |
|------------------------|---|-------------------|---|-------------------|---|-------------------|---|
| BASE                   |   |                   |   | AS-BUILT          |   |                   |   |
| Cooling<br>Points      | + | Heating<br>Points | + Hot Water<br>Points = Total<br>Points | Cooling<br>Points | + | Heating<br>Points | + Hot Water<br>Points = Total<br>Points |
| 11228                  |   | 7225              | 2746 21199                              | 7321              |   | 7846              | 2685 17851                              |

**PASS**

# SUMMER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: , FORT WHITE, FL, 32038-

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   | 1931.0        | 20.04 | 6965.5         | Double, Clear                       | S                        | 3.5           | 4.0                       | 11.0        | 35.87          | 0.54 | 212.4  |
|   |               |       |                | Double, Clear                       | W                        | 3.5           | 8.0                       | 40.0        | 38.52          | 0.77 | 1189.7 |
|   |               |       |                | Double, Clear                       | N                        | 3.5           | 4.0                       | 12.8        | 19.20          | 0.73 | 179.2  |
|   |               |       |                | Double, Clear                       | E                        | 2.0           | 4.0                       | 5.5         | 42.06          | 0.73 | 167.8  |
|   |               |       |                | Double, Clear                       | S                        | 2.0           | 4.0                       | 8.3         | 35.87          | 0.66 | 197.2  |
|   |               |       |                | Double, Clear                       | N                        | 2.0           | 4.0                       | 5.0         | 19.20          | 0.83 | 79.8   |
|   |               |       |                | <b>As-Built Total:</b>              |                          | 82.6          |                           |             | 2026.2         |      |        |
| <b>WALL TYPES</b> Area X BSPM = Points          |               |       |                | Type                                | R-Value                  |               | Area X SPM = Points       |             |                |      |        |
| Adjacent  | 0.0           | 0.00  | 0.0            | Concrete, Lt Wt Int Insul, Exterior | 27.0                     |               | 874.0                     | 0.10        | 87.4           |      |        |
| Exterior  | 1186.0        | 1.70  | 2016.2         | Concrete, Int Insul, Exterior       | 3.0                      |               | 100.0                     | 1.30        | 130.0          |      |        |
|   |               |       |                | Frame, Wood, Exterior               | 14.0                     |               | 212.0                     | 1.40        | 296.8          |      |        |
| <b>Base Total:</b>                              | <b>1186.0</b> |       | <b>2016.2</b>  | <b>As-Built Total:</b>              |                          | <b>1186.0</b> |                           |             | <b>514.2</b>   |      |        |
| <b>DOOR TYPES</b> Area X BSPM = Points          |               |       |                | Type                                |                          |               | Area X SPM = Points       |             |                |      |        |
| Adjacent  | 0.0           | 0.00  | 0.0            | Exterior Insulated                  |                          |               | 34.0                      | 4.10        | 139.4          |      |        |
| Exterior  | 85.0          | 6.10  | 518.5          | Exterior Insulated                  |                          |               | 17.0                      | 4.10        | 69.7           |      |        |
|   |               |       |                | Exterior Insulated                  |                          |               | 17.0                      | 4.10        | 69.7           |      |        |
|   |               |       |                | Exterior Insulated                  |                          |               | 17.0                      | 4.10        | 69.7           |      |        |
| <b>Base Total:</b>                              | <b>85.0</b>   |       | <b>518.5</b>   | <b>As-Built Total:</b>              |                          | <b>85.0</b>   |                           |             | <b>348.5</b>   |      |        |
| <b>CEILING TYPES</b> Area X BSPM = Points       |               |       |                | Type                                | R-Value                  |               | Area X SPM X SCM = Points |             |                |      |        |
| Under Attic                                     | 850.0         | 1.73  | 1470.5         | Single Assembly                     | 28.0                     |               | 850.0                     | 4.57 X 1.00 | 3888.7         |      |        |
| <b>Base Total:</b>                              | <b>850.0</b>  |       | <b>1470.5</b>  | <b>As-Built Total:</b>              |                          | <b>850.0</b>  |                           |             | <b>3888.7</b>  |      |        |
| <b>FLOOR TYPES</b> Area X BSPM = Points         |               |       |                | Type                                | R-Value                  |               | Area X SPM = Points       |             |                |      |        |
| Slab  | 118.0(p)      | -37.0 | -4366.0        | Slab-On-Grade Edge Insulation       | 0.0                      |               | 118.0(p)                  | -41.20      | -4861.6        |      |        |
| Raised  | 0.0           | 0.00  | 0.0            |                                     |                          |               |                           |             |                |      |        |
| <b>Base Total:</b>                              |               |       | <b>-4366.0</b> | <b>As-Built Total:</b>              |                          | <b>118.0</b>  |                           |             | <b>-4861.6</b> |      |        |
| <b>INFILTRATION</b> Area X BSPM = Points        |               |       |                |                                     |                          |               | Area X SPM = Points       |             |                |      |        |
|   | 1931.0        | 10.21 | 19715.5        |                                     |                          |               | 1931.0                    | 10.21       | 19715.5        |      |        |

# SUMMER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: , FORT WHITE, FL, 32038-

PERMIT #:

| BASE                               |   |                   |                  | AS-BUILT                               |   |             |                                       |                     |                     |                  |
|------------------------------------|---|-------------------|------------------|--|---|-------------|---------------------------------------|---------------------|---------------------|------------------|
| <b>Summer Base Points: 26320.2</b> |   |                   |                  | <b>Summer As-Built Points: 21631.5</b> |   |             |                                       |                     |                     |                  |
| Total Summer Points                | X | System Multiplier | = Cooling Points | Total Component                        | X | Cap Ratio   | X Duct Multiplier<br>(DM x DSM x AHU) | X System Multiplier | X Credit Multiplier | = Cooling Points |
| 26320.2                            |   | 0.4266            | 11228.2          | 21631.5                                |   | 1.000       | (1.000 x 1.147 x 0.91)                | 0.341               | 0.950               | 7320.7           |
|                                    |   |                   |                  | <b>21631.5</b>                         |   | <b>1.00</b> | <b>1.044</b>                          | <b>0.341</b>        | <b>0.950</b>        | <b>7320.7</b>    |

## WINTER CALCULATIONS

# Residential Whole Building Performance Method A - Details

ADDRESS: , FORT WHITE, FL, 32038-

PERMIT #:

| BASE   |          |       |         | AS-BUILT   |   |     |      |          |             |        |       |
|--|----------|-------|---------|--|---|-----|------|----------|-------------|--------|-------|
| GLASS TYPES<br>.18 X Conditioned X BWPM = Points<br>Floor Area |          |       |         | Type/SC Overhang<br>Ornt Len Hgt Area X WPM X WOF = Points |   |     |      |          |             |        |       |
| .18  | 1931.0   | 12.74 | 4428.2  | Double, Clear  | S | 3.5 | 4.0  | 11.0     | 13.30       | 2.53   | 369.7 |
|  |          |       |         | Double, Clear  | W | 3.5 | 8.0  | 40.0     | 20.73       | 1.07   | 886.0 |
|  |          |       |         | Double, Clear  | N | 3.5 | 4.0  | 12.8     | 24.58       | 1.02   | 319.3 |
|  |          |       |         | Double, Clear  | E | 2.0 | 4.0  | 5.5      | 18.79       | 1.12   | 115.8 |
|  |          |       |         | Double, Clear  | S | 2.0 | 4.0  | 8.3      | 13.30       | 1.64   | 181.7 |
|  |          |       |         | Double, Clear  | N | 2.0 | 4.0  | 5.0      | 24.58       | 1.01   | 124.0 |
|  |          |       |         | As-Built Total: 82.6 1996.5                                |   |     |      |          |             |        |       |
| WALL TYPES Area X BWPM = Points                                |          |       |         | Type R-Value Area X WPM = Points                           |   |     |      |          |             |        |       |
| Adjacent   | 0.0      | 0.00  | 0.0     | Concrete, Lt Wt Int Insul, Exterior                        |   |     | 27.0 | 874.0    | 1.30        | 1136.2 |       |
| Exterior   | 1186.0   | 3.70  | 4388.2  | Concrete, Int Insul, Exterior                              |   |     | 3.0  | 100.0    | 7.30        | 730.0  |       |
|  |          |       |         | Frame, Wood, Exterior                                      |   |     | 14.0 | 212.0    | 3.20        | 678.4  |       |
| Base Total:  | 1186.0   |       | 4388.2  | As-Built Total:  |   |     |      | 1186.0   |             | 2544.6 |       |
| DOOR TYPES Area X BWPM = Points                                |          |       |         | Type Area X WPM = Points                                   |   |     |      |          |             |        |       |
| Adjacent   | 0.0      | 0.00  | 0.0     | Exterior Insulated   |   |     |      | 34.0     | 8.40        | 285.6  |       |
| Exterior   | 85.0     | 12.30 | 1045.5  | Exterior Insulated   |   |     |      | 17.0     | 8.40        | 142.8  |       |
|  |          |       |         | Exterior Insulated   |   |     |      | 17.0     | 8.40        | 142.8  |       |
|  |          |       |         | Exterior Insulated   |   |     |      | 17.0     | 8.40        | 142.8  |       |
| Base Total:  | 85.0     |       | 1045.5  | As-Built Total:  |   |     |      | 85.0     |             | 714.0  |       |
| CEILING TYPES Area X BWPM = Points                             |          |       |         | Type R-Value Area X WPM X WCM = Points                     |   |     |      |          |             |        |       |
| Under Attic  | 850.0    | 2.05  | 1742.5  | Single Assembly  |   |     | 28.0 | 850.0    | 1.48 X 1.00 | 1262.2 |       |
| Base Total:  | 850.0    |       | 1742.5  | As-Built Total:  |   |     |      | 850.0    |             | 1262.2 |       |
| FLOOR TYPES Area X BWPM = Points                               |          |       |         | Type R-Value Area X WPM = Points                           |   |     |      |          |             |        |       |
| Slab   | 118.0(p) | 8.9   | 1050.2  | Slab-On-Grade Edge Insulation                              |   |     | 0.0  | 118.0(p) | 18.80       | 2218.4 |       |
| Raised   | 0.0      | 0.00  | 0.0     |  |   |     |      |          |             |        |       |
| Base Total:  |          |       | 1050.2  | As-Built Total:  |   |     |      | 118.0    |             | 2218.4 |       |
| INFILTRATION Area X BWPM = Points                              |          |       |         | Area X WPM = Points  |   |     |      |          |             |        |       |
|  | 1931.0   | -0.59 | -1139.3 | 1931.0 -0.59 -1139.3                                       |   |     |      |          |             |        |       |

# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: , FORT WHITE, FL, 32038-

PERMIT #:

| BASE                       |   |                      |                     | AS-BUILT                       |   |              |  |                        |                        |                     |
|----------------------------|---|----------------------|---------------------|--------------------------------|---|--------------|--|------------------------|------------------------|---------------------|
| <b>Winter Base Points:</b> |   | <b>11515.3</b>       |                     | <b>Winter As-Built Points:</b> |   |              |  |                        | <b>7596.5</b>          |                     |
| Total Winter<br>Points     | X | System<br>Multiplier | = Heating<br>Points | Total<br>Component             | X | Cap<br>Ratio | X Duct<br>Multiplier<br>(DM x DSM x AHU) | X System<br>Multiplier | X Credit<br>Multiplier | = Heating<br>Points |
| 11515.3                    |   | 0.6274               | 7224.7              | 7596.5                         |   | 1.000        | (1.000 x 1.169 x 0.93)                   | 1.000                  | 0.950                  | 7845.7              |
|                            |   |                      |                     | <b>7596.5</b>                  |   | <b>1.00</b>  | <b>1.087</b>                             | <b>1.000</b>           | <b>0.950</b>           | <b>7845.7</b>       |



# Code Compliance Checklist

## Residential Whole Building Performance Method A - Details

ADDRESS: , FORT WHITE, FL, 32038-

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.<br>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.   |       |

# ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

**ESTIMATED ENERGY PERFORMANCE SCORE\* = 85.8**

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

ROBERT HENRY & VICKI DUNCAN, , FORT WHITE, FL, 32038-

|   |  |  |                   |
|---|--|--|-------------------|
| 1. New construction or existing                 | New                                      | 12. Cooling systems                    |                   |
| 2. Single family or multi-family                | Single family                            | a. Central Unit                        | Cap: 18.0 kBtu/hr |
| 3. Number of units, if multi-family             | 1  |  | SEER: 10.00       |
| 4. Number of Bedrooms                           | 1  | b. N/A                                 |                   |
| 5. Is this a worst case?                        | Yes                                      | c. N/A                                 |                   |
| 6. Conditioned floor area (ft <sup>2</sup> )    | 1931 ft <sup>2</sup>                     |  |                   |
| 7. Glass area & type                            | Single Pane Double Pane                  | 13. Heating systems                    |                   |
| a. Clear - single pane                          | 0.0 ft <sup>2</sup> 82.6 ft <sup>2</sup> | a. Electric Strip                      | Cap: 10.0 kBtu/hr |
| b. Clear - double pane                          | 0.0 ft <sup>2</sup> 0.0 ft <sup>2</sup>  |  | COP: 1.00         |
| c. Tint/other SHGC - single pane                | 0.0 ft <sup>2</sup> 0.0 ft <sup>2</sup>  | b. N/A                                 |                   |
| d. Tint/other SHGC - double pane                |  | c. N/A                                 |                   |
| 8. Floor types                                  |  | 14. Hot water systems                  |                   |
| a. Slab-On-Grade Edge Insulation                | R=0.0, 118.0(p) ft                       | a. Electric Resistance                 | Cap: 40.0 gallons |
| b. N/A  |  |  | EF: 0.90          |
| c. N/A  |  | b. N/A                                 |                   |
| 9. Wall types                                   |  | c. Conservation credits                |                   |
| a. Concrete, Light Weight - Int Insul, Exterior | R=27.0, 874.0 ft <sup>2</sup>            | (HR-Heat recovery, Solar               |                   |
| b. Concrete, Int Insul, Exterior                | R=3.0, 100.0 ft <sup>2</sup>             | DHP-Dedicated heat pump)               |                   |
| c. Frame, Wood, Exterior                        | R=14.0, 212.0 ft <sup>2</sup>            | 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. Single Assembly                              | R=28.0, 850.0 ft <sup>2</sup>            | MZ-C-Multizone cooling,                |                   |
| b. N/A  |  | MZ-H-Multizone heating)                |                   |
| c. N/A  |  |  |                   |
| 11. Ducts                                       |  |  |                   |
| a. Sup: Con. Ret: Con. AH: Interior             | Sup. R=3.6, 58.0 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™ 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.*

EnergyGauge® (Version: FLR3PB v3.30)

**FOR OWNER/BUILDER WHEN ACTING AS THEIR OWN CONTRACTOR AND CLAIMING EXEMPTION OF CONTRACTOR LICENSING REQUIREMENTS IN ACCORDANCE WITH FLORIDA STATUTES, ss. 489.103(7).**

State law requires construction to be done by licensed contractors. You have applied for a permit under an exemption to that law. The exemption allows you, as the owner of your property, to act as your own contractor with certain restrictions even though you do not have a license. You must provide direct, onsite supervision of the construction yourself. You may build or improve a one-family or two-family residence or a farm outbuilding. You may also build or improve a commercial building, provided your costs do not exceed \$25,000. The building or residence must be for your own use or occupancy. It may not be built or substantially improved for sale or lease. If you sell or lease a building you have built or substantially improved yourself within 1 year after the construction is complete, the law will presume that you built or substantially improved it for sale or lease, which is a violation of this exemption. You may not hire an unlicensed person to act as your contractor or to supervise people working on your building. It is your responsibility to make sure that people employed by you have licenses required by state law and by county or municipal licensing ordinances. You may not delegate the responsibility for supervising work to a licensed contractor who is not licensed to perform the work being done. Any person working on your building who is not licensed must work under your direct supervision and must be employed by you, which means that you must deduct F.I.C.A. and withholding tax and provide workers' compensation for that employee, all as prescribed by law. Your construction must comply with all applicable laws, ordinances, building codes, and zoning regulations.

**TYPE OF CONSTRUCTION**

☒ Single Family Dwelling  
☐ Farm Outbuilding

☐ Two-Family Residence  
☐ Other \_\_\_\_\_

**NEW CONSTRUCTION OR IMPROVEMENT**

☒ New Construction      ☐ Addition, Alteration, Modification or other Improvement

I VICKIE L. DUNCAN, have been advised of the above disclosure statement for exemption from contractor licensing as an owner/builder. I agree to comply with all requirements provided for in Florida Statutes ss.489.103(7) allowing this exception for the construction permitted by Columbia County Building Permit Number \_\_\_\_\_

Vickie L. Duncan  
Signature

2-2-04  
Date

**FOR BUILDING USE ONLY**

I hereby certify that the above listed owner/builder has been notified of the disclosure statement in Florida Statutes ss 489.103(7).

Date 2-12-04 Building Official/Representative Fanny Dicks

Permit No. \_\_\_\_\_

Tax Parcel No. 13-65-16-03817-106

**COLUMBIA COUNTY NOTICE OF COMMENCEMENT**

**STATE OF FLORIDA**

Inst:2004002139 Date:02/02/2004 Time:10:14  
PKK DC, P. DeWitt Cason, Columbia County B:1005 P:2615

**COUNTY OF COLUMBIA**

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

1. Description of property: (legal description of the property, and street address if available.)

Lot 6 OLD wire ridge s/o unrecorded  
NG 1/4 of NE 1/4 of SW 1/4 Section 13 T6-S R16-E

2. General description of improvement: Building home

3. Owner Information:

A. Name and address:

✓ Vickie L. Duncan  
890 SW Applewood Glen Fort White 32638

B. Interest in property:

OWNER

C. Name and address of fee simple titleholder (if other than owner):

D/A

4. Contractor: (name and address)

D/A

5. Surety

A. Name and address: \_\_\_\_\_

B. Amount of bond: \_\_\_\_\_

6. Lender: (name and address) \_\_\_\_\_

7. Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 718.13 (1) (a) 7., Florida Statutes: (name and address) D/A

8. In addition to himself, owner designates \_\_\_\_\_  
of \_\_\_\_\_ to receive a copy of  
the Lienor's Notice as provided in Section 713.13 (1) (a) 7., Florida Statutes.

9. Expiration date of notice of commencement (the expiration date is 1 year from the  
date of recording unless a different date is specified) \_\_\_\_\_.

Uriki L. Duncan  
(Signature of Owner)

SWORN TO and subscribed before me this 2 day of February  
2004

Ruth Murray  
Notary Public

(NOTARIAL  
SEAL)

My Commission Expires:



```

CAM110M01      CamaUSA Appraisal System      Columbia County
2/02/2004 10:34 Property Maintenance      25070 Land 001
Year T Property                               Sel      AG 000
2004 R 13-6S-16-03817-106                    *      Bldg 000
Owner HENRY, ROBERT W &                      + Conf ..      Xfea 000
Address DUNCAN, VICKIE L (JTWRS)              25070 TOTAL      B*
2390 SW ANTIQUERA ST                          10.028 Total Acres
                                           Retain Cap? Renewal Notice
City, St PORT ST LUCIE FL Zip 32038          N
Country (PUD1) (PUD2) (PUD3)
ApprBy JS 9/02/9302 AppCode UseCd 000000 VACANT
TxDist Nbhd MktA ExCode Exemption/% TxCode Units Tp
003 13616.00 02
DIST 3
House# LOT 6 Street OLD WIRE RIDGE UNREC MD Dir #
- City
Subd N/A Condo .00 N/A
Sect Twn Rnge Subd Blk Lot
Legals (AKA LOT 6 OLD WIRE RIDGE S/D UNREC) NE1/4 OF NE1/4 OF SW1/4
JTWRS ORB 941-2018, 998-91.
Map# 77 Mnt 10/28/2003 KYLIE
F1=Task F2=ExTx F3=Exit F4=Prompt F11=Docs F10=GoTo PGUP/PGDN F24=MoreKeys

```

CAM112M01      CamaUSA Appraisal System  
2/02/2004 10:34 Legal Description Maintenance  
Year T Property      Sel  
2004 R 13-6S-16-03817-106

Columbia County  
25070 Land 001  
AG 000  
Bldg 000  
Xfea 000  
25070 TOTAL B\*

LOT 6 OLD WIRE RIDGE UNREC  
HENRY ROBERT W &

|    |  |    |
|----|--|----|
| 1  | (AKA LOT 6 OLD WIRE RIDGE S/D UNREC) NE1/4 OF NE1/4 OF SW1/4 | 2  |
| 3  | JTWRS ORB 941-2018,, 998-91.                                 | 4  |
| 5  |  | 6  |
| 7  |  | 8  |
| 9  |  | 10 |
| 11 |  | 12 |
| 13 |  | 14 |
| 15 |  | 16 |
| 17 |  | 18 |
| 19 |  | 20 |
| 21 |  | 22 |
| 23 |  | 24 |
| 25 |  | 26 |
| 27 |  | 28 |

Mnt 10/28/2003 KYLIE

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



## Cal-Tech Testing, Inc.

- Engineering
- Geotechnical
- Environmental

LABORATORIES

P.O. Box 1625 • Lake City, FL 32056-1625  
6919 Distribution Avenue S., Unit #5 • Jacksonville, FL 32257

Tel. (386) 755-3633 • Fax (386) 752-5456  
Tel. (904) 262-4046 • Fax (904) 262-4047

# 21509

February 19, 2004

Vickie Duncan  
890 S. W. Applewood Glen  
Fort White, Florida 32038

Reference: Proposed Duncan Residence  
890 S. W. Applewood Glen  
Fort White, Columbia County, Florida  
Cal-Tech Project No. 04-081

Dear Ms. Duncan,

Cal-Tech Testing, Inc. has completed the subsurface investigation and engineering evaluation of the foundation area for a residence to be constructed at the referenced location. Our work was authorized by you.

We understand you will construct a circular, single-story residence that will have a basement. Support for the structure is to be provided by a circular strip footing placed approximately 6 feet below the exterior surface grade. The building site was excavated to bearing grade at the time of our investigation. The purposes of our investigation were to evaluate the bearing soils for an allowable bearing pressure of 2,000 pounds per square foot and to provide recommendations as appropriate.

### Site Investigation

The foundation area was investigated by performing one (1) Dynamic Cone Penetration Test with hand-auger boring advanced to a depth of 6 feet. The boring was performed in the foundation cut at the approximate location indicated on the attached Location Plan. This boring location was selected by Cal-Tech Testing, Inc.

The dynamic cone penetration test is performed by driving a standard 60 degree cone into the soil by blows from a 15-pound slide-hammer falling 20 inches. The number of blows required to advance the cone 1.75 inches is designated the dynamic cone penetration resistance. This value can be correlated to N-values of the Standard Penetration Test and is an index of soil density or consistency.

Hand-auger borings are performed by manually advancing a 3-inch diameter, metal sleeve into the soil to recover samples from limited depths. Samples are examined for soil type and color.



## Findings

The soil boring encountered three soil strata. The first layer consists of about 1.5 feet of medium dense to dense, gray, orange and red, very clayey sand (SC). The equivalent N-values of this layer range from 19 to 34 blows per foot.

The second layer consists of about 1.0 foot of dense, gray and orange, very clayey sand (SC). The equivalent N-values of this layer are on the order of 45 blows per foot.

The third layer consists of an undetermined thickness of dense, gray, orange and red, very clayey sand (SC). The equivalent N-values of this layer are on the order of 41 blows per foot.

Groundwater was not encountered at the time of our investigation; however, we believe the wet season water table will occur as perched ground water at a depth of about 2 to 3 feet below the existing surface grade and about 3 feet above the bottom of the foundation. For a more detailed description of the subsurface conditions encountered, please refer to the attached Boring Log.

## Discussion


Based upon our findings and understanding of the proposed construction, we have performed a bearing capacity analysis for the immediate bearing soils within the foundation cut. We have assumed a circular strip footing having a width of 18 inches. Additionally, we have assumed the bottom of this footing to be embedded 6 feet below the exterior surface grade and about 1 foot below the basement floor. For this foundation and the site soils as encountered, we obtained an allowable bearing capacity of 2,000 pounds per square foot with a factor of safety of about 4.5 against a bearing capacity failure. It is therefore our opinion the bearing soils are suitable for strap footings with an allowable bearing capacity of 2,000 pounds per square foot.

We strongly recommend sealing the floor and particularly the walls of the basement to prevent water intrusion.

We appreciate the opportunity to be of service on this project. Please do not hesitate to contact us if you have questions concerning this report or if we may be of further assistance.

Respectfully submitted,  
Cal-Tech Testing, Inc.

  
Linda Creamer  
President / CEO

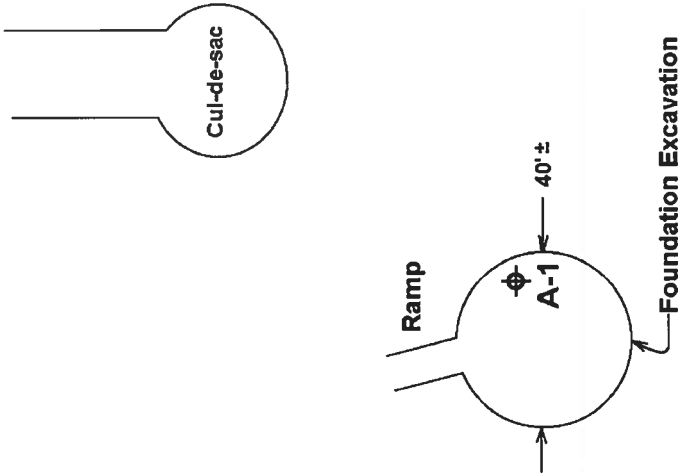
  
John C. Dorman, Jr., Ph.D., P.E.  
Geotechnical Engineer  
2/19/24  
52612

# A-1

Water Table: N/A

| Depth (ft) | Equivalent N-Value | Soil Description   |
|------------|--------------------|--|
| 0          | 19                 | Medium Dense to Dense, Gray, Orange and Red, VERY CLAYEY SAND (SC) |
| 34         | 34                 | Dense, Gray and Orange, VERY CLAYEY SAND (SC)                      |
| 45         | 45                 | Dense, Gray, Orange and Red, VERY CLAYEY SAND (SC)                 |
| 5          | 41                 | Dense, Gray, Orange and Red, VERY CLAYEY SAND (SC)                 |

6.0 ft - Termination of Boring



# COLUMBIA COUNTY OFFICE CITY

## 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 13-6S-16-03817-106

Building permit No. 000021509

Use Classification SFD, UTILITY

Fire: 5.67

Permit Holder OWNER BUILDER

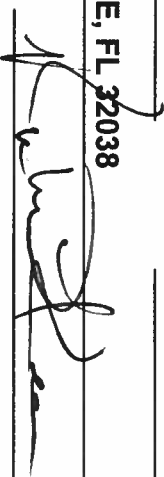
Waste: 12.25

Owner of Building HENRY & VICKIE DUNCAN

Total: 17.92

Location: 890 SW APPLEWOOD GLN, FORT WHITE, FL 32038

Date: 09/02/2004



Building Inspector



POST IN A CONSPICUOUS PLACE  
(Business Places Only)

**Notice of Preventative Treatments for Termites**  
(as required by Florida Building Code (FBC) 104.2.6)

Florida Discount Pest Control Inc.

"District Office"

12562 Spring Warrior Rd. Perry, FL 32348  
(800) 844-8039

Duncan

# 21509

890 SW Applewood Cir Fort White FL 32038  
Address of Treatment or Lot / Block of Treatment

3/2/04  
Date

8:30A  
Time

Jason Bashaw  
Applicator

Termidor  
Product Used

Exponil  
Chemical used (active ingredient)

45 gals.  
Number of gallons applied

0%  
Percent Concentration

825 sq ft.  
Area treated (square feet)

120  
Linear feet treated

Horizontal  
Stage of treatment (Horizontal, Vertical, Adjoining Slab, retreat of disturbed area)

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

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