

DATE 6/15/2005

# Columbia County Building Permit

This Permit Expires One Year From the Date of Issue

PERMIT

000023388

APPLICANT JACKIE NORRIS PHONE 758.3663  
ADDRESS 351 NW CORWIN GLEN LAKE CITY FL 32055  
OWNER DAVID TRAIL PHONE 758.3663  
ADDRESS 188 SW CELINE COURT LAKE CITY FL 32024  
CONTRACTOR JOHN NORRIS PHONE 758.3663  
LOCATION OF PROPERTY SR 47-S TO C-242, TR GO 3 MILES IT'S ON THE RIGHT SIDE

TYPE DEVELOPMENT SFD & UTILITY ESTIMATED COST OF CONSTRUCTION 78400.00  
HEATED FLOOR AREA 1568.00 TOTAL AREA 2136.00 HEIGHT 14.50 STORIES 1  
FOUNDATION CONC WALLS FRAMED ROOF PITCH 5'12 FLOOR CONC  
LAND USE & ZONING RR MAX. HEIGHT 35  
Minimum Set Back Requirements: STREET-FRONT 25.00 REAR 15.00 SIDE 10.00  
NO. EX.D.U. 0 FLOOD ZONE XPP DEVELOPMENT PERMIT NO. \_\_\_\_\_

PARCEL ID 22-4S-16-03090-127 SUBDIVISION BLAINE ESTATES  
LOT 7 BLOCK 1 PHASE 2 UNIT \_\_\_\_\_ TOTAL ACRES \_\_\_\_\_

000000742 25.00 RG0066597  
Culvert Permit No. Culvert Waiver Contractor's License Number Jackie Norris Applicant/Owner/Contractor  
18"X32'MITERED 05-0683-N BLK N  
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: 1 FOOT ABOVE ROAD

Check # or Cash 3402

## 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 \$ 395.00 CERTIFICATION FEE \$ 10.68 SURCHARGE FEE \$ 10.68  
MISC. FEES \$ .00 ZONING CERT. FEE \$ 50.00 FIRE FEE \$ \_\_\_\_\_ WASTE FEE \$ \_\_\_\_\_  
FLOOD ZONE DEVELOPMENT FEE \$ \_\_\_\_\_ CULVERT FEE \$ 25.00 TOTAL FEE 491.36  
INSPECTORS OFFICE \_\_\_\_\_ CLERKS OFFICE CH

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.



## Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only Application # 0507-04 Date Received 7/1/05 By JW Permit # 05742/23388  
Application Approved by - Zoning Official BLK Date 15.07.05 Plans Examiner OK JTH Date 7-8-05  
Flood Zone Xperph Development Permit N/A Zoning RR Land Use Plan Map Category RES. V.L. Dev.  
Comments NOC - Signed on North Plot

Applicants Name John Norris Phone (386) 758-3663  
Address 351 NW Corwin Gln, LAKE CITY, FL 32055  
Owners Name David Trail Phone (386) 719-2144  
911 Address 188 SW Celine Crt. Lake City 32024  
Contractors Name John Norris Phone \_\_\_\_\_  
Address 351 NW Corwin Gln Lake City, FL 32055  
Fee Simple Owner Name & Address \_\_\_\_\_  
Bonding Co. Name & Address \_\_\_\_\_  
Architect/Engineer Name & Address Freeman Design Group 161 NW Madison St. Lake City, FL  
Mortgage Lenders Name & Address Coast Bank - 6205 Cortez Rd West Brandon, FL 34210  
Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Energy  
Property ID Number 22-45-16-03090-127 Estimated Cost of Construction 475,000  
Subdivision Name Blaine Estates Lot 7 Block 1 Unit \_\_\_\_\_ Phase 2  
Driving Directions Hwy 47 to 242 (3 miles) on Right Side of Road..

Type of Construction Single Family Number of Existing Dwellings on Property 0  
Total Acreage 1.00 Lot Size \_\_\_\_\_ Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive  
Actual Distance of Structure from Property Lines - Front 60' ✓ Side 40' ✓ Side 79' ✓ Rear 154' ✓  
Total Building Height 14.5' Number of Stories 1 Heated Floor Area 1568 Roof Pitch 5-12  
Porches 128 CARPORT 440 TOTAL 2136

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.

Owner Builder or Agent (Including Contractor)

STATE OF FLORIDA  
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me

this 1st day of July 2005.

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



Contractor Signature

Contractor License Number RG0066597

Emergency Card Number \_\_\_\_\_

NOTARY SEAL

Notary Signature

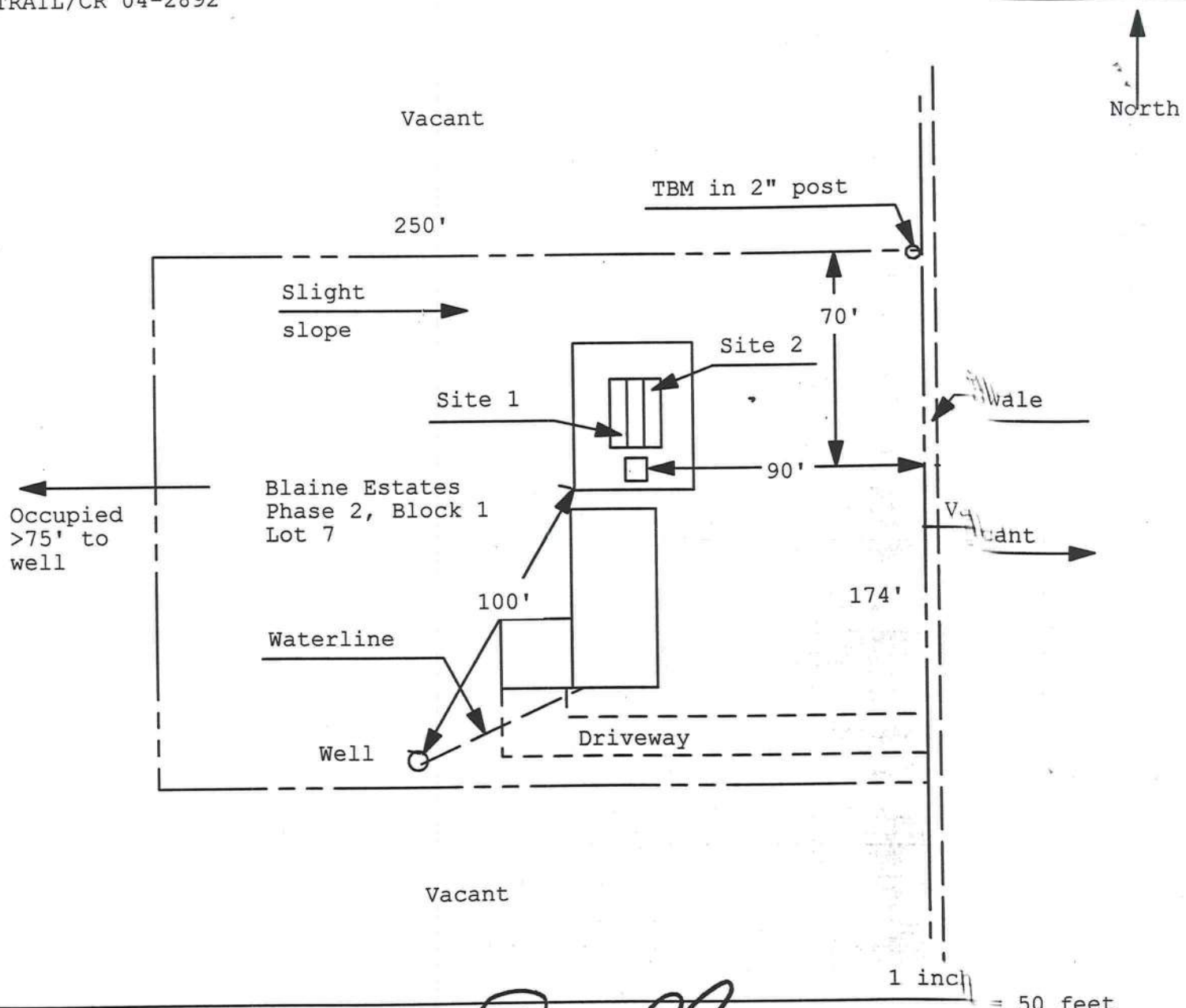
- ADVISED 7-15-05 - John (JW)



Application for Onsite Sewage Disposal System  
Construction Permit. Part II Site Plan  
Permit Application Number: 05-0683N

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

TRAIL/CR 04-2892



Site Plan Submitted By Paul D. [Signature] Date 6-27-05  
Plan Approved ☒ Not Approved ☐ Date 6-27-05  
By [Signature] Columbia CPHU

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

|       |                 |     |
|-------|-----------------|-----|
|       | Columbia County |     |
| 14875 | Land            | 001 |
|       | AG              | 000 |
|       | Bldg            | 000 |
|       | Xfea            | 000 |
| 14875 | TOTAL           | B   |

|       |       |   |
|-------|-------|---|
| 14875 | TOTAL | B |
|-------|-------|---|

| 1  | LOT 7 BLOCK 1 BLAINE ESTATES | PHASE 2: WD 1047-1330. | 2  |
|----|------------------------------|------------------------|----|
| 3  |                              |                        | 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 6/15/2005 CHUCK

F1=Task F3=Exit F4=Prompt F10=GoTo PgUp/PgDn F24=More

FLORIDA ENERGY EFFICIENCY CODE  
FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs  
Residential Whole Building Performance Method A


|               |                       |                      |          |
|---------------|-----------------------|----------------------|----------|
| Project Name: | David Trail Residence | Builder:             |          |
| Address:      |                       | Permitting Office:   | COLUMBIA |
| City, State:  | ,                     | Permit Number:       | 23388    |
| Owner:        |                       | Jurisdiction Number: | 221006   |
| Climate Zone: | South                 |                      |          |

|                                     |                         |  |                   |
|-------------------------------------|-------------------------|--|-------------------|
| 1. New construction or existing     | New                     | 12. Cooling systems                    |                   |
| 2. Single family or multi-family    | Single family           | a. Central Unit                        | Cap: 36.0 kBtu/hr |
| 3. Number of units, if multi-family | 1                       |  | SEER: 12.00       |
| 4. Number of Bedrooms               | 3                       | b. N/A                                 |                   |
| 5. Is this a worst case?            | No                      | c. N/A                                 |                   |
| 6. Conditioned floor area (ft²)     | 1568 ft²                | 13. Heating systems                    |                   |
| 7. Glass area & type                | Single Pane Double Pane | a. Electric Heat Pump                  | Cap: 36.0 kBtu/hr |
| a. Clear glass, default U-factor    | 0.0 ft² 129.0 ft²       |  | HSPF: 7.40        |
| b. Default tint                     | 0.0 ft² 0.0 ft²         | b. N/A                                 |                   |
| c. Labeled U or SHGC                | 0.0 ft² 0.0 ft²         | c. N/A                                 |                   |
| 8. Floor types                      |                         | 14. Hot water systems                  |                   |
| a. Slab-On-Grade Edge Insulation    | R=0.0, 190.0(p) ft      | a. Electric Resistance                 | Cap: 50.0 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, 1520.0 ft²      | (HR-Heat recovery, Solar               |                   |
| b. N/A                              |                         | DHP-Dedicated heat pump)               |                   |
| c. N/A                              |                         | 15. HVAC credits                       | PT, CF,           |
| 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, 1724.8 ft²      | MZ-C-Multizone cooling,                |                   |
| b. N/A                              |                         | MZ-H-Multizone heating)                |                   |
| c. N/A                              |                         |  |                   |
| 11. Ducts                           |                         |  |                   |
| a. Sup: Unc. Ret: Unc. AH: Interior | Sup. R=6.0, 56.0 ft     |  |                   |
| b. N/A                              |                         |  |                   |

Glass/Floor Area: 0.08

Total as-built points: 19037  
Total base points: 26528

PASS

|   |  |
|---|--|
| I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.<br><b>PREPARED BY:</b> William H. Freeman<br><b>DATE:</b> 6/21/05<br>I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.<br><b>OWNER/AGENT:</b><br><b>DATE:</b> | 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.<br><b>BUILDING OFFICIAL:</b><br><b>DATE:</b><br> |
|---|--|



SUMMER CALCULATIONS  
Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #:

| BASE  |          |         |         | AS-BUILT                      |      |                     |                     |                           |         |              |        |
|---|----------|---------|---------|-------------------------------|------|---------------------|---------------------|---------------------------|---------|--------------|--------|
| GLASS TYPES                                     |          |         |         | Overhang                      |      |                     |                     |                           |         |              |        |
| .18 X Conditioned X BSPM = Points<br>Floor Area |          |         |         | Type/SC                       | Ornt | Len                 | Hgt                 | Area X                    | SPM X   | SOF = Points |        |
| .18   | 1568.0   | 32.50   | 9172.8  | Double, Clear                 | N    | 1.5                 | 6.0                 | 30.0                      | 31.93   | 0.94         | 900.7  |
|   |          |         |         | Double, Clear                 | N    | 1.5                 | 6.0                 | 15.0                      | 31.93   | 0.94         | 450.4  |
|   |          |         |         | Double, Clear                 | S    | 1.5                 | 6.0                 | 40.0                      | 58.45   | 0.87         | 2043.8 |
|   |          |         |         | Double, Clear                 | S    | 1.5                 | 6.0                 | 30.0                      | 58.45   | 0.87         | 1532.9 |
|   |          |         |         | Double, Clear                 | W    | 1.5                 | 2.0                 | 5.0                       | 61.59   | 0.63         | 194.4  |
|   |          |         |         | Double, Clear                 | W    | 1.5                 | 4.0                 | 9.0                       | 61.59   | 0.83         | 460.0  |
|   |          |         |         | As-Built Total:               |      |                     |                     |                           |         |              |        |
| WALL TYPES                                      |          |         |         | Area X BSPM = Points          |      | Type                | R-Value             | Area X SPM = Points       |         |              |        |
| Adjacent  | 0.0      | 0.00    | 0.0     | Frame, Wood, Exterior         |      | 13.0                | 1520.0              | 2.40                      | 3648.0  |              |        |
| Exterior  | 1520.0   | 2.70    | 4104.0  |                               |      |                     |                     |                           |         |              |        |
| Base Total:                                     |          | 1520.0  | 4104.0  | As-Built Total:               |      |                     | 1520.0              | 3648.0                    |         |              |        |
| DOOR TYPES                                      |          |         |         | Area X BSPM = Points          |      | Type                | Area X SPM = Points |                           |         |              |        |
| Adjacent  | 0.0      | 0.00    | 0.0     | Exterior Insulated            |      | 40.8                | 6.40                | 261.1                     |         |              |        |
| Exterior  | 40.8     | 6.40    | 261.1   |                               |      |                     |                     |                           |         |              |        |
| Base Total:                                     |          | 40.8    | 261.1   | As-Built Total:               |      | 40.8                | 261.1               |                           |         |              |        |
| CEILING TYPES                                   |          |         |         | Area X BSPM = Points          |      | Type                | R-Value             | Area X SPM X SCM = Points |         |              |        |
| Under Attic                                     | 1568.0   | 2.80    | 4390.4  | Under Attic                   |      | 30.0                | 1724.8              | 2.77 X 1.00               | 4777.7  |              |        |
| Base Total:                                     |          | 1568.0  | 4390.4  | As-Built Total:               |      |                     | 1724.8              | 4777.7                    |         |              |        |
| FLOOR TYPES                                     |          |         |         | Area X BSPM = Points          |      | Type                | R-Value             | Area X SPM = Points       |         |              |        |
| Slab  | 190.0(p) | -20.0   | -3800.0 | Slab-On-Grade Edge Insulation |      | 0.0                 | 190.0(p)            | -20.00                    | -3800.0 |              |        |
| Raised  | 0.0      | 0.00    | 0.0     |                               |      |                     |                     |                           |         |              |        |
| Base Total:                                     |          | -3800.0 |         | As-Built Total:               |      |                     | 190.0               | -3800.0                   |         |              |        |
| INFILTRATION                                    |          |         |         | Area X BSPM = Points          |      | Area X SPM = Points |                     |                           |         |              |        |
|   |          | 1568.0  | 18.79   | 29462.7                       |      |                     |                     | 1568.0                    | 18.79   | 29462.7      |        |

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #:

| BASE                        |   |                   |                  | AS-BUILT                        |   |           |                                    |                     |                     |                  |  |
|-----------------------------|---|-------------------|------------------|---------------------------------|---|-----------|------------------------------------|---------------------|---------------------|------------------|--|
| Summer Base Points: 43591.0 |   |                   |                  | Summer As-Built Points: 39931.7 |   |           |                                    |                     |                     |                  |  |
| Total Summer Points         | X | System Multiplier | = Cooling Points | Total Component                 | X | Cap Ratio | X Duct Multiplier (DM x DSM x AHU) | X System Multiplier | X Credit Multiplier | = Cooling Points |  |
| 43591.0                     |   | 0.4266            | 18595.9          | 39931.7                         |   | 1.000     | (1.073 x 1.165 x 0.90)             | 0.284               | 0.902               | 11521.4          |  |
|                             |   |                   |                  | 39931.7                         |   | 1.00      | 1.125                              | 0.284               | 0.902               | 11521.4          |  |

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

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  | 1568.0   | 2.36  | 666.1  | Double, Clear  | N | 1.5  | 6.0 | 30.0     | 4.38 | 0.99              | 130.3 |
|  |          |       |        | Double, Clear  | N | 1.5  | 6.0 | 15.0     | 4.38 | 0.99              | 65.1  |
|  |          |       |        | Double, Clear  | S | 1.5  | 6.0 | 40.0     | 3.12 | 1.02              | 127.0 |
|  |          |       |        | Double, Clear  | S | 1.5  | 6.0 | 30.0     | 3.12 | 1.02              | 95.3  |
|  |          |       |        | Double, Clear  | W | 1.5  | 2.0 | 5.0      | 3.98 | 1.02              | 20.3  |
|  |          |       |        | Double, Clear  | W | 1.5  | 4.0 | 9.0      | 3.98 | 1.00              | 35.8  |
|  |          |       |        | As-Built Total: 129.0 473.8                                |   |      |     |          |      |                   |       |
| WALL TYPES Area X BWPM = Points                                |          |       |        | Type R-Value Area X WPM = Points                           |   |      |     |          |      |                   |       |
| Adjacent   | 0.0      | 0.00  | 0.0    | Frame, Wood, Exterior                                      |   | 13.0 |     | 1520.0   |      | 0.60 912.0        |       |
| Exterior   | 1520.0   | 0.60  | 912.0  |  |   |      |     |          |      |                   |       |
| Base Total: 1520.0 912.0                                       |          |       |        | As-Built Total: 1520.0 912.0                               |   |      |     |          |      |                   |       |
| DOOR TYPES Area X BWPM = Points                                |          |       |        | Type Area X WPM = Points                                   |   |      |     |          |      |                   |       |
| Adjacent   | 0.0      | 0.00  | 0.0    | Exterior Insulated   |   |      |     | 40.8     |      | 1.80 73.4         |       |
| Exterior   | 40.8     | 1.80  | 73.4   |  |   |      |     |          |      |                   |       |
| Base Total: 40.8 73.4  |          |       |        | As-Built Total: 40.8 73.4                                  |   |      |     |          |      |                   |       |
| CEILING TYPES Area X BWPM = Points                             |          |       |        | Type R-Value Area X WPM X WCM = Points                     |   |      |     |          |      |                   |       |
| Under Attic  | 1568.0   | 0.10  | 156.8  | Under Attic  |   | 30.0 |     | 1724.8   |      | 0.10 X 1.00 172.5 |       |
|  |          |       |        |  |   |      |     |          |      |                   |       |
| Base Total: 1568.0 156.8                                       |          |       |        | As-Built Total: 1724.8 172.5                               |   |      |     |          |      |                   |       |
| FLOOR TYPES Area X BWPM = Points                               |          |       |        | Type R-Value Area X WPM = Points                           |   |      |     |          |      |                   |       |
| Slab   | 190.0(p) | -2.1  | -399.0 | Slab-On-Grade Edge Insulation                              |   | 0.0  |     | 190.0(p) |      | -2.10 -399.0      |       |
| Raised   | 0.0      | 0.00  | 0.0    |  |   |      |     |          |      |                   |       |
| Base Total: -399.0   |          |       |        | As-Built Total: 190.0 -399.0                               |   |      |     |          |      |                   |       |
| INFILTRATION Area X BWPM = Points                              |          |       |        | Area X WPM = Points  |   |      |     |          |      |                   |       |
|  | 1568.0   | -0.06 | -94.1  | 1568.0 -0.06 -94.1   |   |      |     |          |      |                   |       |



# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #:

| BASE                       |   |                   |                  | AS-BUILT                       |   |           |                                    |                     |                     |                  |  |
|----------------------------|---|-------------------|------------------|--------------------------------|---|-----------|------------------------------------|---------------------|---------------------|------------------|--|
| Winter Base Points: 1315.2 |   |                   |                  | Winter As-Built Points: 1138.6 |   |           |                                    |                     |                     |                  |  |
| Total Winter Points        | X | System Multiplier | = Heating Points | Total Component                | X | Cap Ratio | X Duct Multiplier (DM x DSM x AHU) | X System Multiplier | X Credit Multiplier | = Heating Points |  |
| 1315.2                     |   | 0.6274            | 825.2            | 1138.6                         |   | 1.000     | (1.099 x 1.137 x 0.91)             | 0.461               | 0.950               | 566.8            |  |
|                            |   |                   |                  | 1138.6                         |   | 1.00      | 1.137                              | 0.461               | 0.950               | 566.8            |  |

ADDRESS: , , , PERMIT #:

| BASE               |   |            |         | AS-BUILT        |      |                    |   |              |                                |             |
|--------------------|---|------------|---------|-----------------|------|--------------------|---|--------------|--------------------------------|-------------|
| WATER HEATING      |   |            |         |                 |      |                    |   |              |                                |             |
| Number of Bedrooms | X | Multiplier | = Total | Tank Volume     | EF   | Number of Bedrooms | X | Tank X Ratio | Multiplier X Credit Multiplier | = Total     |
| 3                  |   | 2369.00    | 7107.0  | 50.0            | 0.90 | 3                  |   | 1.00         | 2316.36                        | 1.00 6949.1 |
|                    |   |            |         | As-Built Total: |      |                    |   |              |                                |             |
|                    |   |            |         | 6949.1          |      |                    |   |              |                                |             |

| CODE COMPLIANCE STATUS |   |                |   |                  |   |              |  |
|------------------------|---|----------------|---|------------------|---|--------------|--|
| BASE                   |   |                |   | AS-BUILT         |   |              |  |
| Cooling Points         | + | Heating Points | + | Hot Water Points | = | Total Points |  |
| 18596                  |   | 825            |   | 7107             |   | 26528        |  |

| Cooling Points | + | Heating Points | + | Hot Water Points | = | Total Points |  |
|----------------|---|----------------|---|------------------|---|--------------|--|
| 11521          |   | 567            |   | 6949             |   | 19037        |  |

# PASS





# Code Compliance Checklist

## Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

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.  |       |

ENERGY PERFORMANCE LEVEL (EPL)
DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE\* = 88.6

The higher the score, the more efficient the home.

1. New construction or existing
2. Single family or multi-family
3. Number of units, if multi-family
4. Number of Bedrooms
5. Is this a worst case?
6. Conditioned floor area (ft²)
7. Glass area & type
8. Floor types
9. Wall types
10. Ceiling types
11. Ducts
12. Cooling systems
13. Heating systems
14. Hot water systems
15. HVAC credits

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 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 Energy Gauge Office. Version: FLRCPB v3.30)



# Residential System Sizing Calculation

## Summary

Project Title:  
David Trail Residence

Code Only  
Professional Version  
Climate: South

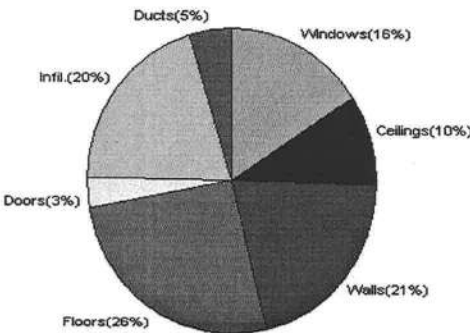
6/20/2005

|  |                   |                                       |                   |
|--|-------------------|---------------------------------------|-------------------|
| Location for weather data: Gainesville - User customized: Latitude(29) Temp Range(M) |                   |                                       |                   |
| Humidity data: Interior RH (50%) Outdoor wet bulb (78F) Humidity difference(51gr.)   |                   |                                       |                   |
| Winter design temperature  | 31 F              | Summer design temperature             | 98 F              |
| Winter setpoint  | 70 F              | Summer setpoint                       | 75 F              |
| Winter temperature difference  | 39 F              | Summer temperature difference         | 23 F              |
| <b>Total heating load calculation</b>  | <b>22943 Btuh</b> | <b>Total cooling load calculation</b> | <b>21471 Btuh</b> |
| Submitted heating capacity   | % of calc Btuh    | Submitted cooling capacity            | % of calc Btuh    |
| Total (Electric Heat Pump)   | 156.9 36000       | Sensible (SHR = 0.5)                  | 106.4 18000       |
| Heat Pump + Auxiliary(0.0kW)   | 156.9 36000       | Latent                                | 394.9 18000       |
|  |                   | Total (Electric Heat Pump)            | 167.7 36000       |

## WINTER CALCULATIONS

Winter Heating Load (for 1568 sqft)

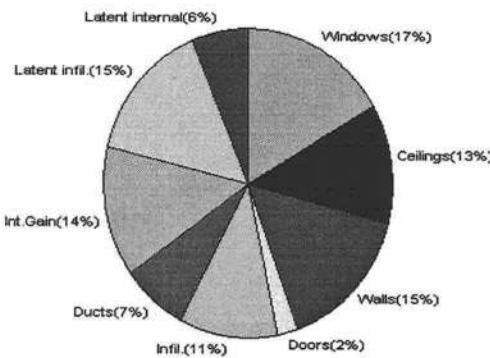
| Load component         |           | Load         |             |
|------------------------|-----------|--------------|-------------|
| Window total           | 129 sqft  | 3651         | Btuh        |
| Wall total             | 1520 sqft | 4712         | Btuh        |
| Door total             | 41 sqft   | 748          | Btuh        |
| Ceiling total          | 1725 sqft | 2242         | Btuh        |
| Floor total            | 190 ft    | 6004         | Btuh        |
| Infiltration           | 105 cfm   | 4493         | Btuh        |
| <b>Subtotal</b>        |           | <b>21850</b> | <b>Btuh</b> |
| Duct loss              |           | 1093         | Btuh        |
| <b>TOTAL HEAT LOSS</b> |           | <b>22943</b> | <b>Btuh</b> |



## SUMMER CALCULATIONS

Summer Cooling Load (for 1568 sqft)

| Load component             |           | Load         |             |
|----------------------------|-----------|--------------|-------------|
| Window total               | 129 sqft  | 3604         | Btuh        |
| Wall total                 | 1520 sqft | 3253         | Btuh        |
| Door total                 | 41 sqft   | 509          | Btuh        |
| Ceiling total              | 1725 sqft | 2691         | Btuh        |
| Floor total                |           | 0            | Btuh        |
| Infiltration               | 92 cfm    | 2319         | Btuh        |
| Internal gain              |           | 3000         | Btuh        |
| <b>Subtotal(sensible)</b>  |           | <b>15375</b> | <b>Btuh</b> |
| Duct gain                  |           | 1538         | Btuh        |
| <b>Total sensible gain</b> |           | <b>16913</b> | <b>Btuh</b> |
| Latent gain(infiltration)  |           | 3178         | Btuh        |
| Latent gain(internal)      |           | 1380         | Btuh        |
| <b>Total latent gain</b>   |           | <b>4558</b>  | <b>Btuh</b> |
| <b>TOTAL HEAT GAIN</b>     |           | <b>21471</b> | <b>Btuh</b> |



EnergyGauge® System Sizing based on ACCA Manual J.

PREPARED BY: Will H. Free

DATE: 6/21/05

# System Sizing Calculations - Winter

## Residential Load - Component Details

Project Title:  
David Trail Residence

Code Only  
Professional Version  
Climate: South

Reference City: Gainesville (User customized) Winter Temperature Difference: 39.0 F

6/20/2005

| Window             | Panes/SHGC/Frame/U       | Orientation | Area X          | HTM= | Load      |
|--------------------|--------------------------|-------------|-----------------|------|-----------|
| 1                  | 2, Clear, Metal, DEF     | N           | 30.0            | 28.3 | 849 Btuh  |
| 2                  | 2, Clear, Metal, DEF     | N           | 15.0            | 28.3 | 424 Btuh  |
| 3                  | 2, Clear, Metal, DEF     | S           | 40.0            | 28.3 | 1132 Btuh |
| 4                  | 2, Clear, Metal, DEF     | S           | 30.0            | 28.3 | 849 Btuh  |
| 5                  | 2, Clear, Metal, DEF     | W           | 5.0             | 28.3 | 142 Btuh  |
| 6                  | 2, Clear, Metal, DEF     | W           | 9.0             | 28.3 | 255 Btuh  |
| Window Total       |                          |             | 129             |      | 3651 Btuh |
| Walls              | Type                     | R-Value     | Area X          | HTM= | Load      |
| 1                  | Frame - Exterior         | 13.0        | 1520            | 3.1  | 4712 Btuh |
| Wall Total         |                          |             | 1520            |      | 4712 Btuh |
| Doors              | Type                     |             | Area X          | HTM= | Load      |
| 1                  | Insulated - Exter        |             | 41              | 18.3 | 748 Btuh  |
| Door Total         |                          |             | 41              |      | 748Btuh   |
| Ceilings           | Type                     | R-Value     | Area X          | HTM= | Load      |
| 1                  | Under Attic              | 30.0        | 1725            | 1.3  | 2242 Btuh |
| Ceiling Total      |                          |             | 1725            |      | 2242Btuh  |
| Floors             | Type                     | R-Value     | Size X          | HTM= | Load      |
| 1                  | Slab-On-Grade Edge Insul | 0           | 190.0 ft(p)     | 31.6 | 6004 Btuh |
| Floor Total        |                          |             | 190             |      | 6004 Btuh |
| Infiltration       | Type                     | ACH X       | Building Volume | CFM= | Load      |
|                    | Natural                  | 0.40        | 15680(sqft)     | 105  | 4493 Btuh |
|                    | Mechanical               |             |                 | 0    | 0 Btuh    |
| Infiltration Total |                          |             |                 | 105  | 4493 Btuh |

|                    |  |            |
|--------------------|--|------------|
| Totals for Heating | Subtotal                                 | 21850 Btuh |
|                    | Duct Loss(using duct multiplier of 0.05) | 1093 Btuh  |
|                    | Total Btuh Loss                          | 22943 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 )



# System Sizing Calculations - Summer

## Residential Load - Component Details

Project Title:  
David Trail Residence

Code Only  
Professional Version  
Climate: South

Reference City: Gainesville (User customized) Summer Temperature Difference: 23.0 F 6/20/2005

| Window       | Type                | Panels/SHGC/U/InSh/ExSh Ornt  | Overhang |        | Window Area(sqft) |             |          | HTM    |           | Load      |           |  |
|--------------|---------------------|-------------------------------|----------|--------|-------------------|-------------|----------|--------|-----------|-----------|-----------|--|
|              |                     |                               | Len      | Hgt    | Gross             | Shaded      | Unshaded | Shaded | Unshaded  |           |           |  |
| 1            | 2, Clear, DEF, N, N | N                             | 1.5      | 6      | 30.0              | 0.0         | 30.0     | 24     | 24        | 720       | Btuh      |  |
| 2            | 2, Clear, DEF, N, N | N                             | 1.5      | 6      | 15.0              | 0.0         | 15.0     | 24     | 24        | 360       | Btuh      |  |
| 3            | 2, Clear, DEF, N, N | S                             | 1.5      | 6      | 40.0              | 40.0        | 0.0      | 24     | 39        | 960       | Btuh      |  |
| 4            | 2, Clear, DEF, N, N | S                             | 1.5      | 6      | 30.0              | 30.0        | 0.0      | 24     | 39        | 720       | Btuh      |  |
| 5            | 2, Clear, DEF, N, N | W                             | 1.5      | 2      | 5.0               | 3.1         | 1.9      | 24     | 74        | 214       | Btuh      |  |
| 6            | 2, Clear, DEF, N, N | W                             | 1.5      | 4      | 9.0               | 0.7         | 8.3      | 24     | 74        | 629       | Btuh      |  |
| Window Total |                     |                               |          |        | 129               |             |          |        |           | 3604      | Btuh      |  |
| Walls        | Type                | R-Value                       |          | Area   |                   |             | HTM      |        | Load      |           |           |  |
|              | 1                   | Frame - Exterior              | 13.0     | 1520.0 |                   |             | 2.1      |        | 3253 Btuh |           |           |  |
|              | Wall Total          |                               |          | 1520.0 |                   |             |          |        | 3253 Btuh |           |           |  |
| Doors        | Type                | R-Value                       |          |        | Area              |             |          | HTM    |           | Load      |           |  |
|              | 1                   | Insulated - Exter             | 40.8     |        |                   | 12.5        |          |        | 509 Btuh  |           |           |  |
|              | Door Total          |                               |          | 40.8   |                   |             |          |        | 509 Btuh  |           |           |  |
| Ceilings     | Type/Color          | R-Value                       |          |        | Area              |             |          | HTM    |           | Load      |           |  |
|              | 1                   | Under Attic/Dark              | 30.0     |        |                   | 1724.8      |          |        | 1.6       |           | 2691 Btuh |  |
|              | Ceiling Total       |                               |          | 1724.8 |                   |             |          |        | 2691 Btuh |           |           |  |
| Floors       | Type                | R-Value                       |          |        | Size              |             |          | HTM    |           | Load      |           |  |
|              | 1                   | Slab-On-Grade Edge Insulation | 0.0      |        |                   | 190.0 ft(p) |          |        | 0.0       |           | 0 Btuh    |  |
|              | Floor Total         |                               |          | 190.0  |                   |             |          |        | 0 Btuh    |           |           |  |
| Infiltration | Type                | ACH                           |          |        | Volume            |             |          | CFM=   |           | Load      |           |  |
|              | Natural             | 0.35                          |          |        | 15680             |             |          | 91.6   |           | 2319 Btuh |           |  |
|              | Mechanical          |                               |          |        |                   |             |          | 0      |           | 0 Btuh    |           |  |
|              | Infiltration Total  |                               |          |        |                   |             | 92       |        | 2319 Btuh |           |           |  |

|                  |           |  |               |      |           |           |
|------------------|-----------|--|---------------|------|-----------|-----------|
| Internal<br>gain | Occupants |  | Btuh/occupant |      | Appliance | Load      |
|                  | 6         |  | X 300 +       | 1200 |           |           |
|                  |           |  |               |      |           | 3000 Btuh |

|                    |   |            |
|--------------------|---|------------|
| Totals for Cooling | Subtotal  | 15375 Btuh |
|                    | Duct gain(using duct multiplier of 0.10)                  | 1538 Btuh  |
|                    | Total sensible gain                                       | 16913 Btuh |
|                    | Latent infiltration gain (for 51 gr. humidity difference) | 3178 Btuh  |
|                    | Latent occupant gain (6 people @ 230 Btuh per person)     | 1380 Btuh  |
|                    | Latent other gain   | 0 Btuh     |
|                    | TOTAL GAIN  | 21471 Btuh |

Key: Window types (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/Daperies(B) or Roller Shades(R))  
(ExSh - Exterior shading device: none(N) or numerical value)  
(Ornt - compass orientation)

EnergyGauge® FLRCPB v3.30

**Columbia County Building Department  
Culvert Permit**

**Culvert Permit No.  
000000742**

DATE 07/15/2005 PARCEL ID # 22-4S-16-03090-127  
APPLICANT JACKIE NORRIS PHONE 758.3663  
ADDRESS 351 NW CORWIN GLEN LAKE CITY FL 32055  
OWNER DAVID TRAIL PHONE 719.2144  
ADDRESS 188 SW CELINE COURT LAKE CITY FL 32024  
CONTRACTOR JOHN NORRIS PHONE 758.3663  
LOCATION OF PROPERTY SR-47-S TO C-242,TR PROCEED 3 MILES ON THE RIGHT SIDE.

SUBDIVISION/LOT/BLOCK/PHASE/UNIT BLAINE ESTATES 7 1 2

SIGNATURE Jackie Norris

**INSTALLATION REQUIREMENTS**



Culvert size will be 18 inches in diameter with a total length of 32 feet, leaving 24 feet of driving surface. Both ends will be mitered 4 foot with a 4 : 1 slope and poured with a 4 inch thick reinforced concrete slab.

INSTALLATION NOTE: Turnouts will be required as follows:

- a) a majority of the current and existing driveway turnouts are paved, or;
  - b) the driveway to be served will be paved or formed with concrete.
- Turnouts shall be concrete or paved a minimum of 12 feet wide or the width of the concrete or paved driveway, whichever is greater. The width shall conform to the current and existing paved or concreted turnouts.



Culvert installation shall conform to the approved site plan standards.



Department of Transportation Permit installation approved standards.



Other \_\_\_\_\_

ALL PROPER SAFETY REQUIREMENTS SHOULD BE FOLLOWED  
DURING THE INSTALLATION OF THE CULVERT.

135 NE Hernando Ave., Suite B-21  
Lake City, FL 32055  
Phone: 386-758-1008 Fax: 386-758-2160

**Amount Paid 25.00**





23388

Inst:2005012669 Date:05/27/2005 Time:16:31  
MK DC, P. DeWitt Cason, Columbia County B:1047 P:1354

LOAN NUMBER: 7011011278

STATE OF FLORIDA, COUNTY OF Columbia NOTICE OF COMMENCEMENT

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

1. **Description of property:** LOT 7, BLOCK 1, BLAINE ESTATES PHASE II, A SUBDIVISION ACCORDING TO THE PLAT THEREOF RECORDED IN PLAT BOOK 7, PAGE 147-148, OF THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA. 188 SW CELINE COURT, LAKE CITY, FL 32024
2. **General description of improvements:** Single Family Residence
3. **Owner information:**
  - a. Name(s): DAVID E TRAIL
  - b. Address: 462 SW PRETENDER GLEN, FORT WHITE, FL 32038
  - c. Interest in property: Fee Simple
  - d. Name and address of fee simple titleholder (if other than Owner): N/A
4. **Contractor:** JOHN NORRIS CONSTRUCTION  
351 NW CORWIN GLN, LAKE CITY, FL 32055
5. **Surety**
  - a. Name and address: None
  - b. The amount of bond: N/A
6. **Lender** COAST BANK OF FLORIDA - P. O. BOX 150, BRADENTON, FLORIDA 34206-0150
7. Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1)(a)7, Florida Statutes: N/A
8. In addition to himself, Owner designates \*\* to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes.  
\*\*COAST BANK OF FLORIDA - Attn: Wanda M. Farr - P. O. Box 150, Bradenton, Florida 34206-0150 (941-345-1473)
9. Expiration date of notice of commencement (the expiration date is 1 year from the date of recording unless a different date is specified)

David E Trail  
Borrower: DAVID E TRAIL

Borrower:

Borrower:

Borrower:

STATE OF FLORIDA

COUNTY SS:

The forgoing instrument was acknowledge before me this 23<sup>rd</sup> day of May, 2005  
by DAVID E TRAIL who is personally known to me or has produced DL  
as identification and who did AC take an oath.  
My Commission expires:

Megan M. Marable  
Notary Public





# COLUMBIA COUNTY FLORIDA DEPARTMENT OF BUILDING AND ZONING

## 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 22-4S-16-03090-127

Building permit No. 000023388

Use Classification SFD & UTILITY

Fire: 65.12

Permit Holder JOHN NORRIS

Waste: 134.75

Owner of Building DAVID TRAIL

Total: 199.87

Location: 188 SW CELINE COURT(BLAINE EST, LOT 7)

Date: 10/31/2005



Building Inspector



POST IN A CONSPICUOUS PLACE  
(Business Places Only)



# Notice of Treatment 1/500

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

Address: 536 SE Bay Dr.

City Lake City Phone (888) 752-1703

Site Location: Subdivision Blaine Est.

Lot # 7 Block# Permit # 93388

Address 18850 Delaney Court Lake City

Product used Active Ingredient % Concentration

☒ Dursban TC Chlorpyrifos 0.5%

☐ Termidor Fipronil 0.06%

☐ Bora-Care Disodium Oclaborate Tetrahydrate 23.0%

Type treatment: ☒ Soil ☐ Wood

| Area Treated | Square feet | Linear feet | Gallons Applied |
|--------------|-------------|-------------|-----------------|
| Main Body    | 1696        | 184         | 300             |
|              |             |             |                 |
|              |             |             |                 |
|              |             |             |                 |

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

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

Date 7-25-05 Time 3:15 PM Print Technician's Name [Signature]

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