

DATE 02/10/2004

Columbia County Building Permit**PERMIT**

This Permit Expires One Year From the Date of Issue

000021499

APPLICANT PAT HAYGOOD PHONE 303-1981

ADDRESS RT 3 BOX 162 LAKE CITY FL 32025

OWNER JOHN SHERMAN PHONE 397-06000

ADDRESS 12614 S US HIGHWAY 441 LAKE CITY FL 32025

CONTRACTOR HAYGOOD HOMES PHONE 752-3496

LOCATION OF PROPERTY 441 S, 13 MILES, DIRT DRIVE, ACROSS FROM ELLISVILLE,
VOL. FIRE DEPT, THOUGHT GATE

TYPE DEVELOPMENT SFD, UTILITY ESTIMATED COST OF CONSTRUCTION 134600.00

HEATED FLOOR AREA 2692.00 TOTAL AREA 4112.00 HEIGHT 00 STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 6/12 FLOOR SLAB

LAND USE & ZONING A-3 MAX. HEIGHT 17

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 27-5 -17-09420-003 SUBDIVISION _____

LOT _____ BLOCK _____ PHASE _____ UNIT _____ TOTAL ACRES 5.00

CRC132671*

Culvert Permit No. _____ Culvert Waiver _____ Contractor's License Number APPLICANT/Owner/Contractor

EXISTING 04-0054-N BK RJ

Driveway Connection _____ Septic Tank Number _____ LU & Zoning checked by _____ Approved for Issuance _____ New Resident _____

COMMENTS: FLOOD HEIGHT LETTER RECEIVED, NOC ON FILECheck # or Cash 1653**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 \$ 675.00 CERTIFICATION FEE \$ 20.56 SURCHARGE FEE \$ 20.56

MISC. FEES \$.00 ZONING CERT. FEE \$ 50.00 FIRE FEE \$ _____ WASTE FEE \$ _____

FLOOD ZONE DEVELOPMENT FEE \$ _____ CULVERT FEE \$ _____ TOTAL FEE 766.12

INSPECTORS OFFICE John Teddlor 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.



**NOTICE OF INSPECTION
AND/OR TREATMENT**

21499

Date of Inspection

5/24/04

Date of Treatment

Navigator T.C.

Pesticide Used

Sub Termites

Wood-Destroying Organisms Treated

****Notice****

It is a violation of Florida State Law (Chap. 482.226) for anyone other than the property owner to remove this notice.

Address:

Pestmaster Services of Lake City

879 S.W. Arlington Blvd., Suite 106 • Lake City, FL 32025

21477

THIS INSTRUMENT WAS PREPARED BY:

TERRY McDAVID 04-158
POST OFFICE BOX 1328
LAKE CITY, FL 32056-1328

Inst:2004008149 Date:04/13/2004 Time:10:19

DC, P. DeWitt Cason, Columbia County B:1012 P:484

PERMIT NO. _____

TAX FOLIO NO.: R09420-000

NOTICE OF COMMENCEMENT

STATE OF FLORIDA
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:

SEE EXHIBIT "A" ATTACHED HERETO AND MADE A PART HEREOF.

2. General description of improvement: Construction of Dwelling

3. Owner information:

a. Name and address: JOHN R. SHERMAN
8721 288th Street, Branford, FL 32008

b. Interest in property: Fee Simple

c. Name and address of fee simple title holder (if other than Owner): None

4. Contractor: HAYGOOD HOMES, INC.

Route 3, Box 162, Lake City, FL 32025

5. Surety n/a

a. Name and address:
b. Amount of bond:

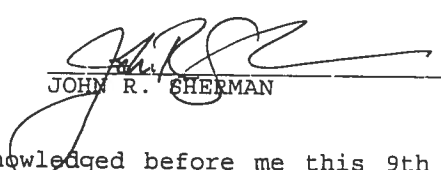
6. Lender: COLUMBIA COUNTY BANK

Post Office Box 1609, Lake City, FL 32056

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: None


8. In addition to himself, Owner designates Nedra Horton, Columbia County Bank, Post Office Box 1609, Lake City, FL 32056 to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes.

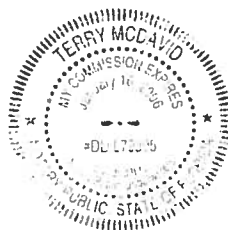
9. Expiration date of notice of commencement (the expiration date is 1 year from the date of recording unless a different date is specified). April 9, 2005.



JOHN R. SHERMAN

The foregoing instrument was acknowledged before me this 9th day of April, 2004, by JOHN R. SHERMAN, who is personally known to me and who did not take an oath.

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

By 
Deputy Clerk
Date 4/13/04




Notary Public
My commission expires: _____

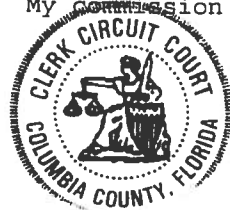
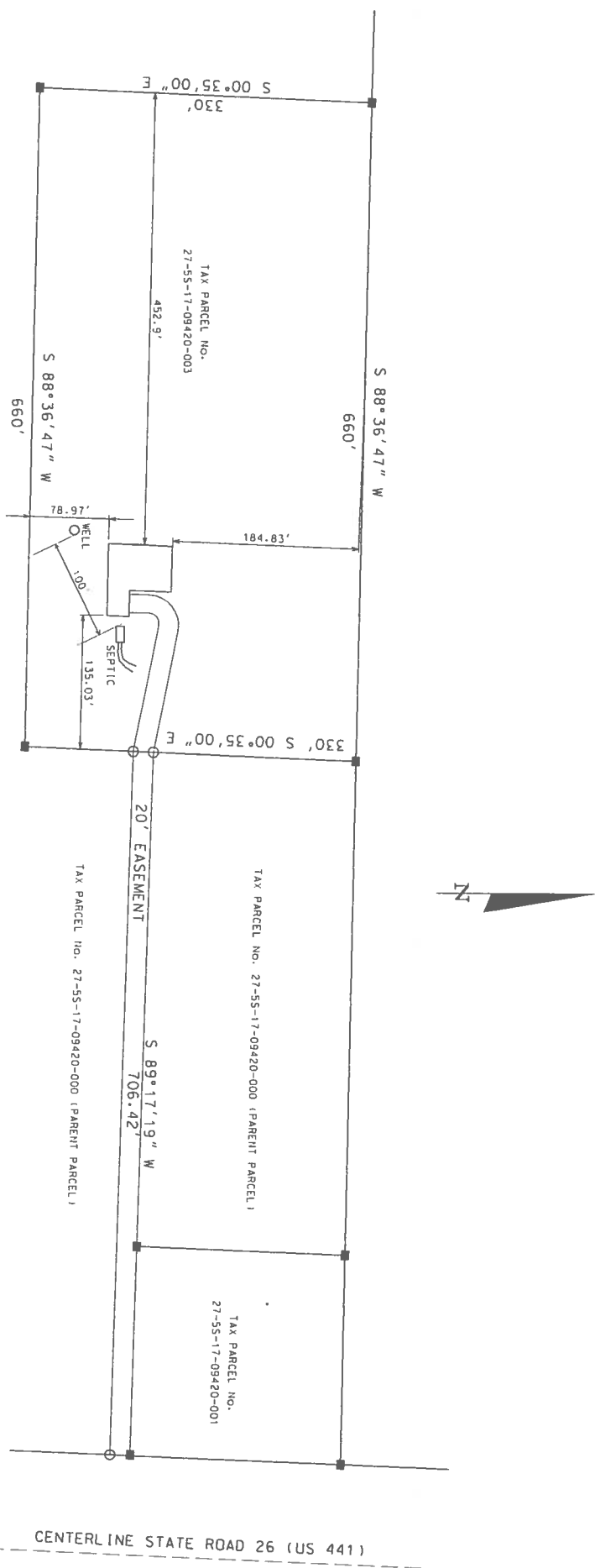


EXHIBIT "A"

TOWNSHIP 5 SOUTH - RANGE 17 EAST

SECTION 27: For a point of reference, commence at the intersection of the South line of Section 27 and the West right of way of State Road 25; thence run N 0 deg. 35'00" W along said right of way 330.00 feet to a concrete monument; thence S 88 deg. 36'47" W 706.49 feet to the Point of Beginning; thence continue S 88 deg. 36'47" W 660.00 feet; thence S 0 deg. 35'00" E 330.00 feet; thence N 88 deg. 36'47" E 660.00 feet; thence N 0 deg. 35'00" W 330.00 feet to the Point of Beginning. Columbia County, Florida.

TOGETHER WITH a 20 foot easement described as follows: Commence at the intersection of the South line of Section 27 and the West right of way of State Road 25; thence run N 0 deg. 35'00" W along said right of way 100.00 feet to the Point of Beginning; thence continue N 0 deg. 35'00" W along said right of way 20.00 feet; thence S 89 deg. 17'19" W 706.42 feet; thence S 0 deg. 35'00" E 20.00 feet; thence N 89 deg. 17'19" E 706.42 feet to the West right of way of State Road 25 and the Point of Beginning.



CENTERLINE STATE ROAD 26 (US 441)

Building Permit Application

21499

Date 02-02-04

Application No. 0402-01

Pat: # 303.1981

Applicants Name & Address Haygood Homes, Inc
RT 3 Box 162, L.C. 32025

Phone 752-3496

Owners Name & Address John B. Sherman
12614 S. U.S. Hwy 441, L.C. 320

Phone 397-0600

Fee Simple Owners Name & Address

Phone

Contractors Name & Address Haygood Homes, Inc
RT 3 Box 162 L.C.

Phone 752 3496

Legal Description of Property See attached

Location of Property Hwy 441 S. - 13 miles dirt drive across from Ellisville
Vol. fire Dept. - through gate

Tax Parcel Identification No. 27-55-17-09420-003 Estimated Cost of Construction \$ 135,000

Type of Development Private Property SFD Number of Existing Dwellings on Property 0

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

Building Height 17' Number of Stories 1 (one) Floor Area 2692 Total Acreage in Development 5 (five)

Distance From Property Lines (Set Backs) Front 135.03 Side 78.97 South Rear 450.9 Street 706.42

Flood Zone X Certification Date 184.83 North Development Permit N/A

Bonding Company Name & Address N/A

Architect/Engineer Name & Address MATTY HUMPHRIES, O'BRIEN 7132091

Mortgage Lenders Name & Address Columbia Co. Bank

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.

Owner or Agent (including contractor)

[Signature]
Contractor

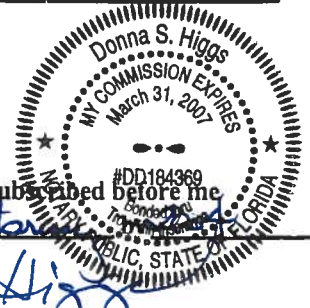
CRC 1326715
Contractor License Number

STATE OF FLORIDA
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me
this 2nd day of February by 2004

STATE OF FLORIDA
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me
this 2nd day of February



Donna S. Higgs

Personally Known ☒ OR Produced Identification

Personally Known ☒ OR Produced Identification

Permit No. _____

Tax Parcel No. _____

COLUMBIA COUNTY NOTICE OF COMMENCEMENT

STATE OF FLORIDA

COUNTY OF COLUMBIA

Inst:2004002127 Date:02/02/2004 Time:09:00

dk DC, P. Dewitt Cason, Columbia County B:1005 P:2582

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.)

A tract of land in
Section 27; Township 5 South - Range 17 East
in Col. Co
12614 S. U.S. Highway 441

2. General description of improvement:

new residence

3. Owner Information:

A. Name and address:

John R. Sherman
12614 S. U.S. Highway 441 LC.

B. Interest in property:

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

4. Contractor: (name and address)

✓ Haygood Homes, Inc
Rt 3 Box 162
Lake City, FL 32025

5. Surety

A. Name and address: Commercial Casualty Ins Co.


B. Amount of bond:

6. Lender: (name and address) Columbia Co. Bank
LC FL 32025

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)

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) _____.

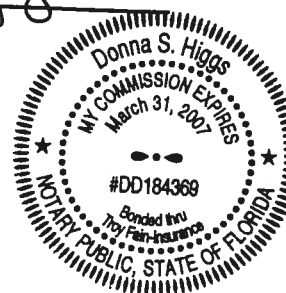

(Signature of Owner)

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


Notary Public

(NOTARIAL
SEAL)

My Commission Expires:



Inst:2004002127 Date:02/02/2004 Time:09:00

DC,P.DeWitt Cason,Columbia County B:1005 P:2583



Columbia County Property Appraiser

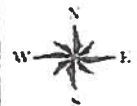
J. Doyle Crews, CFA - Lake City, Florida - 386-758-1083

PARCEL: 27-5S-17-09420-003 - NO AG ACRE (009900)

COMM AT THE INTERSECTION OF S LINE OF SEC & W R/W OF SR 25 RUN N 330 FT, W 706.49 FT TO

Name:	SHERMAN JOHN R	LandVal	\$20,000.00
Site:		BldgVal	\$0.00
Mail:	RT 3 BX 162	ApprVal	\$20,000.00
	LAKE CITY, FL 32025	JustVal	\$20,000.00
Sales	9/23/2003 \$100.00 V / U	Assd	\$20,000.00
	9/5/2003 \$100.00 V / U	Exmpt	\$0.00
Info	4/8/2002 \$100.00 V / U	Taxable	\$20,000.00

0 180 360 540 ft



This information, GIS Map Updated: 01/12/2004, was derived from data which was compiled by the Columbia County Property Appraiser Office solely for the governmental purpose of property assessment. This information should not be relied upon by anyone as a determination of the ownership of property or market value. No warranties, expressed or implied, are provided for the accuracy of the data herein, it's use, or it's interpretation. Although it is periodically updated, this information may not reflect the data currently on file in the Property Appraiser's office. The assessed values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.

THIS INSTRUMENT PREPARED BY:

3-2
MARLIN M. FEAGLE, ESQUIRE
FEAGLE & FEAGLE, ATTORNEYS, P.A.
153 NE Madison Street
Post Office Box 1653
Lake City, Florida 32056-1653
(as to form only without benefit of title search)

Florida Bar No. 0173248

Inst:2003021048 Date:09/26/2003 Time:16:10
Doc Stamp-Deed : 0.70
MCK DC, P. DeWitt Cason, Columbia County B:995 P:2470

FEE SIMPLE DEED

THIS FEE SIMPLE DEED made this 23 day of September, 2003, by J. P. WITT and his wife, EVELYN C. WITT, whose mailing address is Route 3, Box 163, Lake City, Florida 32025, hereinafter referred to as first party, to JOHN R. SHERMAN, whose mailing address is Route 3, Box 162, Lake City, Florida 32025, hereinafter referred to as second party.

WITNESSETH:

That the said first party, for and in consideration of the sum of \$1.00, and other valuable considerations, in hand paid by the said second party, the receipt whereof is hereby acknowledged, does hereby remise, release, and deed unto the said second party forever, all the right, title, interest, claim and demand which the said first party has in and to the following described lot, piece or parcel of land, situate, lying and being in the County of Columbia, State of Florida, to-wit:

TOWNSHIP 5 SOUTH - RANGE 17 EAST

Section 27: For a Point of Reference, commence at the intersection of the South line of Section 27 and the West right of way of State Road 25; thence run N 0°35'00" W along said right of way 330.00 feet to a concrete monument; thence S 88°36'47" W 706.49 feet to the POINT OF BEGINNING; thence continue S 88°36'47" W 660.00 feet; thence S 0°35'00" E 330.00 feet; thence N 88°36'47" E

660.00 feet; thence N 0°35'00" W 330.00 feet to the **POINT OF BEGINNING** and containing 5.00 acres, more or less.

SUBJECT TO a 50-foot power line easement along the North side of the above described land.

TOGETHER WITH a 20-foot easement described as follows: Commence at the intersection of the South line of Section 27 and the West right of way of State Road 25; thence run N 0°35'00" W along said right of way 100.00 feet to the **POINT OF BEGINNING**; thence continue N 0°35'00" W along said right of way 20.00 feet; thence S 89°17'19" W 706.42 feet; thence S 0°35'00" E 20.00 feet; thence N 89°17'19" E 706.42 feet to the West right of way of State Road 25 and the **POINT OF BEGINNING**.

Tax Parcel No.: 27-5S-17-09420-000 (parent parcel)

TO HAVE AND TO HOLD the same together with all and singular the appurtenances thereunto belonging or in anywise appertaining, and all the estate, right, title, interest, lien, equity and claim whatsoever of the said first party, either in law or equity to the only property use, benefit and behoof of the said second party forever.

IN WITNESS WHEREOF, the said first party has signed and sealed these presents the day and year first above written.

Signed, sealed and delivered
in the presence of:

Marlin Feagk
Witness

MARLIN Feagk
Print or type name

Diane S. Edenfield
Witness

DIANE S. EDENFIELD
Print or type name

J. P. Witt (SEAL)
J. P. WITT

Evelyn C. Witt (SEAL)
EVELYN C. WITT

Inst:2003021048 Date:09/26/2003 Time:16:10
Doc Stamp-Deed : 0.70

MCK DC, P. DeWitt Cason, Columbia County B:995 P:2472

**STATE OF FLORIDA
COUNTY OF COLUMBIA**

The foregoing instrument was acknowledged before me this 23rd day of Sept., 2003, by J. P. WITT and his wife, EVELYN C. WITT, who are personally known to me.

(NOTARIAL
SEAL)

DIANE S. EDENFIELD
MY COMMISSION # DD117802 EXPIRES
MAY 26, 2006
BONDED THROUGH FAIR INSURANCE, INC.



Diane S. Edenfield
Notary Public, State of Florida

My Commission Expires:

01-08-04

RE: John R. Sherman (residence construction site-SR 41, Columbia County)

Columbia County Building and Zoning


To Whom It May Concern:

I have reviewed the Flood Insurance Rate Map and I have performed a site evaluation for the proposed John R. Sherman residence. It is my recommendation that the finished floor height of the structure be located 12" minimum above the existing-undisturbed grade at the building perimeter in order to prevent flood and water damage. Grade the perimeter so that runoff drains away from the building.

Sincerely,

A handwritten signature in blue ink, reading "Marty J. Humphries", with a long horizontal flourish extending to the right.

Marty J. Humphries, P.E. # 51976
7932 240th St.
O'Brien, FL 32071
(386)935-2406

A handwritten signature in blue ink, reading "Marty J. Humphries", with a long horizontal flourish extending to the right.
1-8-04

HALL'S PUMP & WELL SERVICE, INC.

SPECIALIZING IN 4"-6" WELLS



DONALD AND MARY HALL
OWNERS

PHONE (904) 752-1854
FAX (904) 755-7022
~~XXXXXX FIRST STREET~~
LAKE CITY, FLORIDA 32055
904 NW Main Blvd.

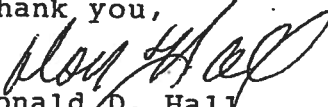
June 12, 2002

NOTICE TO ALL CONTRACTORS

Please be advised that due to the new building codes we will use a large capacity diaphragm tank on all new wells. This will insure a minimum of one (1) minute draw down or one (1) minute refill. If a smaller diaphragm tank is used then we will install a cycle stop valve which will produce the same results.

If you have any questions please feel free to call our office anytime.

Thank you,


Donald D. Hall
DDH/jk

COLUMBIA COUNTY 9-1-1 ADDRESSING

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

Addressing Maintenance

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

DATE ISSUED: 1-20-04

ENHANCED 9-1-1 ADDRESS:

12614 S US Highway 441 (Lake City, FL 32025)

Addressed Location 911 Phone Number: N/A

OCCUPANT NAME: John Sherman

OCCUPANT CURRENT MAILING ADDRESS: Rt 3 Box 162
Lake City, FL 32025


PROPERTY APPRAISER MAP SHEET NUMBER: 130

PROPERTY APPRAISER PARCEL NUMBER: 27-55-17-09420-003

Other Contact Phone Number (If any): _____

Building Permit Number (If known): _____

Remarks: None

Address Issued By: 
Columbia County 9-1-1 Addressing Department

Application for Onsite Sewage Disposal System
Construction Permit. Part II Site Plan
Permit Application Number: 04-0054N

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

SHERMAN/CR 03-1674

Vacant

660'

North

330'

Intermittent
creek

5 acres

240'

Unpaved drive

TBM in 40" oak

Vacant

Site 1

Site 2

180'

100'

Waterline

100'

No slope

Well

1 inch = 60 feet

Vacant

Site Plan Submitted By
Plan Approved ☒ Not Approved ☐

Date

By

Notes:

Paul Lloyd

1/12/04

Paul Lloyd

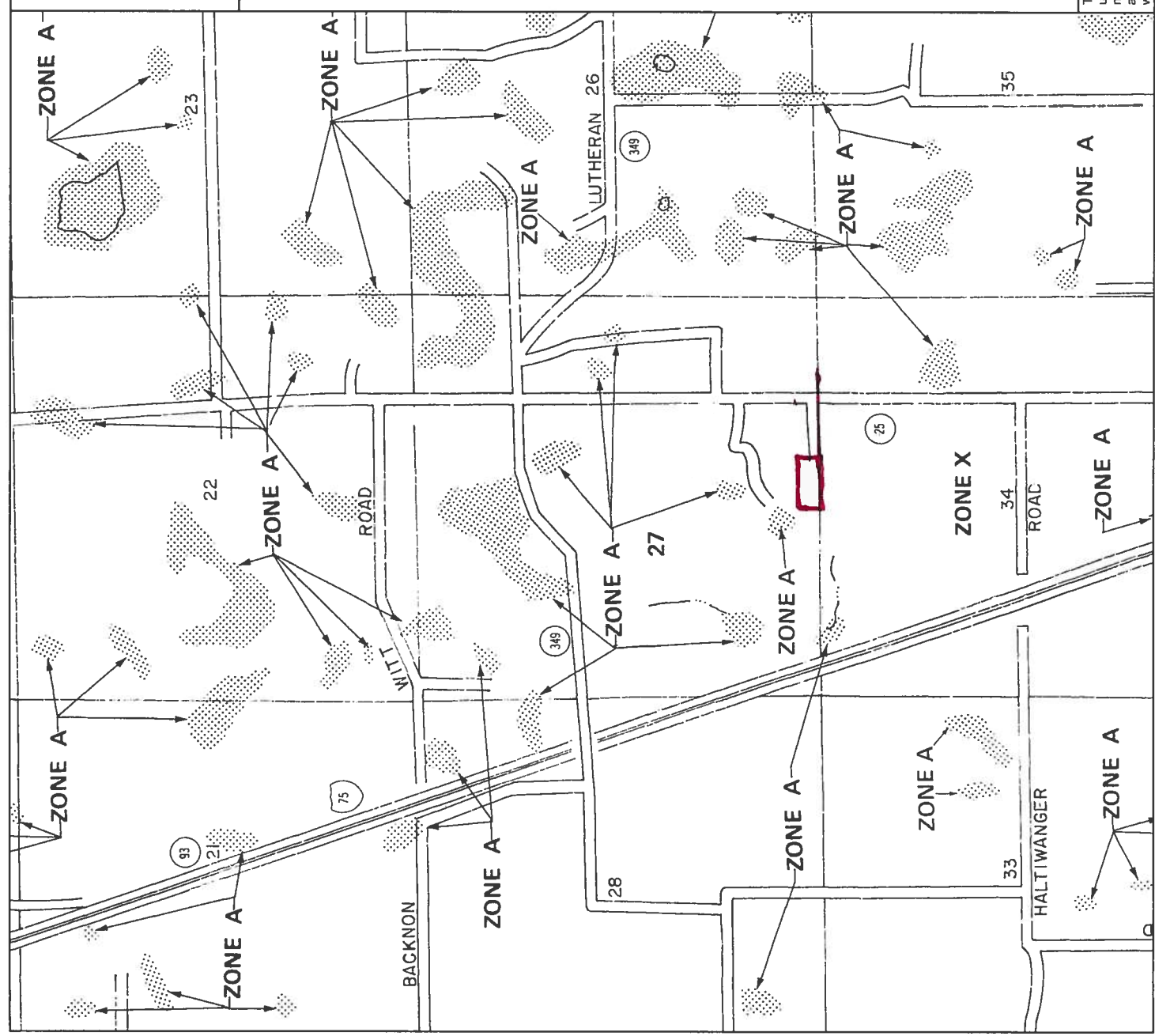
Date

Salhi Graddy

CPHU

ESI. COLUMBIA

0402-01



NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

COLUMBIA
COUNTY,
FLORIDA
(UNINCORPORATED AREAS)

PANEL 250 OF 290

PANEL LOCATION



COMMUNITY-PANEL NUMBER
120070 0250 B
EFFECTIVE DATE:
JANUARY 6, 1988



Federal Emergency Management Agency

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

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION
FORM 600A-01 Residential Whole Building Performance Method A

NORTH 1 2 3

PROJECT NAME: AND ADDRESS:	<u>Sherman Res</u>	BUILDER:	<u>HAYGOOD HOMES, INC.</u>
	<u>12614 S us Hwy 441</u> <u>Lake City</u>	PERMITTING OFFICE:	<u>COLUMBIA</u>
OWNER:	<u>John R. Sherman</u>	PERMIT NO.:	<u>214919</u>
		CLIMATE ZONE:	1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4
		JURISDICTION NO.:	<u>221100</u>

- New construction or addition
- Single family detached or Multifamily attached
- If Multifamily—No. of units covered by this submission
- Is this a worst case? (yes / no)
- Conditioned floor area (sq. ft.)
- Predominant eave overhang (ft.)
- Glass type and area:
 - Clear glass
 - Tint, film or solar screen
- Floor type and insulation:
 - Slab-on-grade (R-value + perimeter)
 - Wood, raised (R-value + sq. ft.)
 - Concrete, raised (R-value)
- Net Wall type, area and insulation:
 - Exterior:
 - Concrete block (Insulation R-value)
 - Wood frame (Insulation R-value)
 - Steel frame (Insulation R-value)
 - Log (Insulation R-value)
 - Other: _____
 - Adjacent:
 - Concrete block (Insulation R-value)
 - Wood frame (Insulation R-value)
 - Steel frame (Insulation R-value)
 - Log (Insulation R-value)
- Ceiling type, area and insulation:
 - Under attic (Insulation R-value)
 - Single assembly (Insulation R-value)
 - Radiant barrier, IRCC or white roof installed?
- Air distribution system:
 - Ducts (Insulation + Location)
 - Air Handler (Location)
- Cooling system:
(Types: central-split, central-single pkg., room unit, PTAC., gas, none)
- Heating system:
(Types: heat pump, elec. strip, nat. gas, L.P. gas, gas h.p., room or PTAC, none)
- Hot water system:
(Types: elec., natural gas, solar, L.P. gas, none)
- Hot Water Credits:
 - Heat Recovery (HR)
 - Dedicated Heat Pump(DHP)
 - Solar
- HVAC Credits
(Use: CF-Ceiling Fan, CV-Cross vent, PT-Programmable thermostat, HF-Whole house fan, MZ-Multizone)
- COMPLIANCE STATUS: (PASS if As-Built Pts. are less than Base Pts.)
 - Total As-Built points
 - Total Base points

Please Type		CK
1.	<u>new</u>	
2.	<u>single</u>	
3.	<u>NA</u>	
4.	<u>yes</u>	
5.	<u>2692</u> sq. ft.	
6.	<u>2</u> ft.	
	Single Pane Double Pane	
7a.	sq. ft. <u>236</u>	sq. ft.
7b.	sq. ft. <u>0</u>	sq. ft.
8a.	R= <u>6</u> , <u>218</u> l. ft.	
8b.	R= _____ , <u>0</u> sq. ft.	
8c.	R= _____ , _____ sq. ft.	
9a-1	R= _____ sq. ft.	
9a-2	R= <u>13</u> <u>1744</u> sq. ft.	
9a-3	R= _____ sq. ft.	
9a-4	R= _____ sq. ft.	
9b-1	R= _____ sq. ft.	
9b-2	R= _____ sq. ft.	
9b-3	R= _____ sq. ft.	
9b-4	R= _____ sq. ft.	
10a.	R= <u>30</u> <u>2692</u> sq. ft.	
10b.	R= _____ sq. ft.	
10c.	_____	
11a.	R= <u>6</u> <u>uncond</u> (cond./uncond.)	
11b.	<u>cond</u> (cond./uncond.)	
12a.	Type: <u>central split</u>	
12b.	SEER/EER/COP: <u>12.5</u>	
12c.	Capacity: <u>5 ton</u>	
13a.	Type: <u>HP</u>	
13b.	HSPF/COP/AFUE: <u>6.8</u>	
13c.	Capacity: <u>5 Ton</u>	
14a.	Type: <u>elec</u>	
14b.	EF: <u>.88</u>	
15a.	_____	
15b.	_____	
15c.	_____	
16.	<u>CF, PT</u>	
17.	<u>PASS</u>	
17a.	<u>25208.54</u>	17b. <u>36748.2</u>

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

PREPARED BY: [Signature] DATE: 1-28-04
 I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

OWNER AGENT: [Signature] DATE: 1-28-04

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

BUILDING OFFICIAL: _____
 DATE: _____

SUMMER CALCULATIONS

CLIMATE ZONES 1 2 3

GLASS

$$\text{OVERHANG RATIO} = \frac{\text{OH LENGTH}}{\text{OH HEIGHT}}$$

ORIENTATION	OVERHANG LENGTH OH (FEET)	GLASS AREA (SQ. FT.)	SINGLE-PANE		OR DOUBLE-PANE		SUMMER OH FACTOR (from 6A-1)	AS-BUILT GLASS SUMMER PTS		
			SUMMER POINT MULTIPLIER		SUMMER POINT MULTIPLIER					
			CLEAR	TINT ²	CLEAR	TINT ²				
N	2	24	21.73	17.28	19.20	14.84	.930	428.54		
NE			33.55	27.37	29.56	23.48				
E	2	45	47.92	39.62	42.06	33.89	.898	1699.6		
SE			48.65	40.24	42.75	34.47				
S	2	67	40.81	33.55	35.87	28.73	.835	2006.7		
SW			45.75	37.77	40.16	32.30				
W	2	63	43.84	36.13	38.52	30.93	.828	2009.3		
NW			29.42	23.83	25.97	20.48				
H ¹			84.46	68.97	74.77	59.51				

GLASS	.18 x	COND FLOOR AREA	x	WEIGHTED GLASS MULTIPLIER	=	BASE GLASS SUBTOTAL
	.18	2692		20.04		7710.6

AS-BUILT GLASS SUBTOTAL
6144.14

COMPONENT DESCRIPTION	AREA	x	BASE SUMMER POINT. MULT.	=	BASE SUMMER POINTS
WALL EXTERIOR ADJACENT	1744		1.7		2964.8
			.7		

COMPONENT DESCRIPTION	AREA	x	SUMMER POINT. MULT. (6A-2 THRU 6A-6)	=	AS-BUILT SUMMER POINTS
Wood	1744		1.5		2914.5

DOORS	EXTERIOR ADJACENT	100	6.1	610
			2.4	

Insulated	100	4.1	410
-----------	-----	-----	-----

CEILING	UNDER ATTIC OR SINGLE ASSEMBLY	2692	1.73	4657.1

IC-30	2692	1.73	4657.14
RBS/IRCC/white roof ³		x	

BASE CEILING AREA EQUALS FLOOR AREA DIRECTLY UNDER CEILING, AS-BUILT CEILING AREA EQUALS ACTUAL CEILING SQUARE FOOTAGE.

FLOOR	SLAB (PERIMETER) RAISED (AREA)	218	-37.0	-8066
			-3.99	

Slab	218	-36.2	-7896.6
------	-----	-------	---------

FOR SLAB ON GRADE USE PERIMETER LENGTH AROUND CONDITIONED FLOOR. FOR RAISED FLOORS USE AREA OVER UNCONDITIONED SPACE.

INFILTRATION & INTERNAL GAINS	2692	10.21	27485.32
-------------------------------	------	-------	----------

USE TOTAL FLOOR AREA OF CONDITIONED SPACE.

2692	10.21	27485.32
------	-------	----------

TOTAL COMPONENT BASE SUMMER POINTS	
------------------------------------	--

TOTAL COMPONENT AS-BUILT SUMMER POINTS	33719.52
--	----------

COOLING SYSTEM	Base Cooling System Multiplier	x	Total Base Summer Points	=	BASE COOLING POINTS
	.43		37361.82		16065.58

TOTAL	As-Built AS-BUILT SUM. PTS.	As-Built DM (6A-8)	x	As-Built DSM (6A-20)	x	As-Built AHU (6A-7)	x	As-Built CSM (6A-9)	x	As-Built CCM (6A-19)	=	AS-BUILT COOLING POINTS
33719.52	1.070	1.15 or 1.0		.91		.28		.95				8826.74

HOT WATER SYSTEM	Number of bedrooms	x	Base Hot Water Multiplier	=	BASE HOT WATER POINTS
	3		2746		8238

AS-BUILT HOT WATER SYSTEM DESC.	Number of bedrooms	x	As-Built HWM (6A-22)	x	As-Built HWCM (6A-23)	=	AS-BUILT HOT WATER POINTS
	3		2746		NA		8238

¹H = HORIZONTAL GLASS (SKYLIGHTS)

²FOR GLASS WITH KNOWN SHGC, SEE SECTION 2.1.1 APPENDIX C.

³MUST MEET CRITERIA OF S. 607.1.A. TINT MULTIPLIERS MAY BE USED FOR GLASS WITH SOLAR SCREENS, FILM, OR TINT.

SUMMER POINT MULTIPLIERS (SPM)

CLIMATE ZONES 1 2 3

6A-1 SUMMER OVERHANG FACTORS (SOF) FOR SINGLE AND DOUBLE PANE GLASS.

SELECT BY OR	OH Ratio	00-11	12-17	18-26	27-35	36-46	47-57	58-70	71-83	84-118	119-172	173-273	274 & up
	North	1.00	0.993	0.971	0.930	0.888	0.842	0.803	0.766	0.736	0.681	0.634	0.593
	Northeast	1.00	0.996	0.967	0.907	0.845	0.775	0.717	0.662	0.619	0.545	0.487	0.441
	East	1.00	0.994	0.963	0.898	0.827	0.745	0.675	0.609	0.558	0.470	0.405	0.357
	Southeast	1.00	0.998	0.952	0.864	0.777	0.689	0.623	0.566	0.525	0.459	0.413	0.379
	South	1.00	0.989	0.931	0.835	0.751	0.675	0.620	0.575	0.543	0.493	0.458	0.432
	Southwest	1.00	0.998	0.953	0.866	0.779	0.691	0.623	0.565	0.522	0.453	0.404	0.368
	West	1.00	0.994	0.963	0.899	0.828	0.748	0.681	0.617	0.569	0.485	0.422	0.375
	Northwest	1.00	0.996	0.968	0.913	0.858	0.797	0.748	0.702	0.667	0.605	0.556	0.516
	OH Length	0.0'	1.0'	1.5'	2.0'	3.0'	3.5'	4.5'	5.5'	6.5'	9.5'	14.0'	20.0'

6A-2 WALL SUMMER POINT MULTIPLIERS (SPM)

FRAME					CONCRETE BLOCK (NORMAL WT)				FACE BRICK				LOG		
		WOOD		STEEL				INTERIOR INSULATION	EXT. INSUL.	R-VALUE	WOOD FR	R-VALUE	BLOCK		
R-VALUE	EXT	ADJ	EXT	ADJ	R-VALUE	EXT	ADJ	EXT		0-6.9	2.4	0-2.9	1.0	R-VALUE	6 INCH
0-6.9	5.5	2.2	7.6	2.8	0-2.9	2.2	1.1	2.2		7-10.9	.6	3-6.9	.6	0-2.9	1.5
7-10.9	2.1	.8	3.5	1.3	3-4.9	1.3	.8	.8		11-18.9	.4	7-9.9	.4	3-6.9	1.0
11-12.9	1.7	.7	2.7	1.0	5-6.9	1.0	.7	.5		19-25.9	.2	10 & UP	.2	7 & Up	.8
13-18.9	1.5	.6	2.5	0.9	7-10.9	.7	.5	.3		26 & Up	.1				.6
19-25.9	.9	.4	2.2	0.8	11-18.9	.4	.4	0							
26 & Up	.6	.2	1.2	0.4	19-25.9	.2	.2								
					26 & Up	.1	.1								

NOTE: SEE SECTION 2.0 OF APPENDIX C FOR MULTIPLIERS OF ENVELOPE COMPONENTS NOT ON THIS FORM.

6A-3 DOOR SUMMER POINT MULTIPLIERS (SPM)

DOOR TYPE	EXTERIOR	ADJACENT
WOOD	6.1	2.4
INSULATED	4.1	1.6

6A-4 CEILING SUMMER POINT MULTIPLIERS (SPM)

UNDER ATTIC		SINGLE ASSEMBLY		CONCRETE DECK ROOF		
R-VALUE	SPM	R-VALUE	SPM	CEILING TYPE		
19-21.9	2.34	10-10.9	8.49	R-VALUE	EXPOSED	DROPPED
22-25.9	2.11	11-12.9	7.97	10-13.9	9.13	8.47
26-29.9	1.89	13-18.9	7.14	14-20.9	6.80	6.45
30-37.9	1.73	19-25.9	5.64	21 & Up	4.92	4.63
38 & Up	1.52	26-29.9	4.75			
RBS Credit	0.700	30 & Up	4.40			
IRCC Credit	0.849					
White Roof Credit	0.550					

6A-5 FLOOR SUMMER POINT MULTIPLIERS (SPM)

SLAB-ON-GRADE EDGE INSULATION		RAISED CONCRETE		RAISED WOOD			
R-VALUE	SPM	R-VALUE	SPM	POST OR PIER CONSTRUCTION	STEM WALL w/ UNDER FLOOR INSULATION	ADJACENT	
0-2.9	-41.2	0-2.9	-8	R-VALUE	SPM	SPM	SPM
3-4.9	-37.2	3-4.9	-1.3	0-6.9	2.80	-4.7	2.2
5-6.9	-36.2	5-6.9	-1.3	7-10.9	1.34	-2.3	.8
7 & Up	-35.7	7 & Up	-1.3	11-18.9	1.06	-1.9	.7
				19 & Up	.77	-1.5	.4

6A-6 INFILTRATION & INTERNAL GAINS (SPM)

Air Infiltration	3.44
Internal Gains	+ 6.77
Infiltration/Internal Gains (Combined)	10.21

6A-7 AIR HANDLER MULTIPLIERS (SPM)

Located in garage	1.00
Located in conditioned area	0.91
Located on exterior of building	1.02
Located in attic	1.11

6A-8 DUCT MULTIPLIERS (DM) See Table 6-10 for Code minimums.

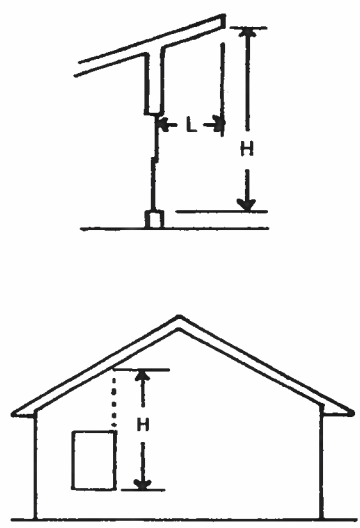
SUPPLY DUCTS IN:	DUCT R-Value	RETURN DUCTS IN:				
		Unconditioned space	Attic/ RBS	Attic/ IRCC	Attic/ White roof	Conditioned space
Unconditioned Space	4.2	1.118	1.111	1.112	1.089	1.107
	6.0	1.090	1.084	1.085	1.066	1.081
	8.0	1.071	1.066	1.067	1.051	1.064
Attic/Radiant Barrier (RBS)	4.2	1.072	1.066	—	—	1.061
	6.0	1.056	1.051	—	—	1.047
	8.0	1.045	1.041	—	—	1.037
Attic/Interior Radiation Control Coatings (IRCC)	4.2	1.099	—	1.092	—	1.084
	6.0	1.076	—	1.071	—	1.065
	8.0	1.061	—	1.057	—	1.052
Attic/White Roof	4.2	1.068	—	—	1.096	1.057
	6.0	1.051	—	—	1.071	1.043
	8.0	1.040	—	—	1.055	1.034
Conditioned Space	4.2	1.006	1.005	1.007	1.008	1.000
	6.0	1.005	1.004	1.005	1.006	1.000
	8.0	1.004	1.003	1.004	1.005	1.000

6A-9 COOLING SYSTEM MULTIPLIERS (CSM)

SYSTEM TYPE See Table 6-3 for Code minimums		COOLING SYSTEM MULTIPLIERS (CSM)										
Central Units (SEER)	Rating		7.5-7.9	8.0-8.4	8.5-8.8	8.9-9.4	9.5-9.9	10.0-10.4	10.5-10.9	11.0-11.4	11.5-11.9	12.0-12.4
	CSM		.45	.43	.40	.38	.36	.34	.32	.31	.30	.28
PTAC & Room Units (EER)	Rating	12.5-12.9	13.0-13.4	13.5-13.9	14.0-14.4	14.5-14.9	15.0-15.4	15.5-15.9	16.0-16.4	16.5-16.9	17.0-17.4	17.5 & Up
	CSM	.27	.26	.25	.24	.24	.23	.22	.21	.21	.20	.19

WINTER CALCULATIONS

CLIMATE ZONES 1 2 3

GLASS		ORIENTATION	OVERHANG LENGTH OH (FEET)	GLASS AREA (SQ. FT.)	SINGLE-PANE WINTER POINT MULTIPLIER		OR DOUBLE-PANE WINTER POINT MULTIPLIER		WINTER OH FACTOR (from 6A-10)	AS-BUILT GLASS WINTER PTS
					CLEAR	TINT ²	CLEAR	TINT ²		
GLASS		N	2	24	33.22	34.06	24.58	25.37	1.003	591.69
		NE			32.04	33.05	23.57	24.53		
		E	2	45	26.41	28.18	18.79	20.51	1.040	879.37
		SE			21.82	24.24	14.71	17.06		
		S	2	67	20.24	22.87	13.30	15.87	1.142	1017.64
		SW			24.09	26.20	16.74	18.79		
		W	2	63	28.84	30.32	20.73	22.15	1.044	1369.99
		NW			32.93	33.82	24.30	25.14		
		H ¹			29.19	31.47	19.86	22.11		

GLASS	.18 x	COND FLOOR AREA	x	WEIGHTED GLASS MULTIPLIER	=	BASE GLASS SUBTOTAL
	.18	2692	x	12.74	=	6173.29

AS-BUILT GLASS SUBTOTAL
3858.69

WALL	COMPONENT DESCRIPTION	AREA	x	BASE WINTER POINT. MULT.	=	BASE WINTER POINTS
WALL	EXTERIOR	1744	x	3.7	=	6452.8
	ADJACENT		x	3.6	=	

COMPONENT DESCRIPTION	AREA	x	WINTER POINT. MULT. (6A-11THRU 6A-15)	=	AS-BUILT WINTER POINTS
Wood	1744	x	3.4	=	5929.6

DOORS	COMPONENT DESCRIPTION	AREA	x	BASE WINTER POINT. MULT.	=	BASE WINTER POINTS
DOORS	EXTERIOR	100	x	12.3	=	1230
	ADJACENT		x	11.5	=	

COMPONENT DESCRIPTION	AREA	x	WINTER POINT. MULT.	=	AS-BUILT WINTER POINTS
Insulated	100	x	8.4	=	840

CEILING	UNDER ATTIC OR SINGLE ASSEMBLY	AREA	x	BASE WINTER POINT. MULT.	=	BASE WINTER POINTS
CEILING		2692	x	2.05	=	5518.6
			x		=	

COMPONENT DESCRIPTION	AREA	x	WINTER POINT. MULT.	=	AS-BUILT WINTER POINTS
R-30	2692	x	2.05	=	5518.6
RBS/IRCC/white roof ³		x		=	

BASE CEILING AREA EQUALS FLOOR AREA DIRECTLY UNDER CEILING, AS-BUILT CEILING AREA EQUALS ACTUAL CEILING SQUARE FOOTAGE.

FLOOR	SLAB (PERIMETER)	AREA	x	BASE WINTER POINT. MULT.	=	BASE WINTER POINTS
FLOOR	RAISED (AREA)	218	x	8.9	=	1940.2
			x	.96	=	

COMPONENT DESCRIPTION	AREA	x	WINTER POINT. MULT.	=	AS-BUILT WINTER POINTS
Slab	218	x	7.6	=	1656.8

FOR SLAB ON GRADE USE PERIMETER LENGTH AROUND CONDITIONED FLOOR. FOR RAISED FLOORS USE AREA OVER UNCONDITIONED SPACE.

INFILTRATION & INTERNAL GAINS	AREA	x	BASE WINTER POINT. MULT.	=	BASE WINTER POINTS
	2692	x	-0.58	=	-1561.36

INFILTRATION & INTERNAL GAINS	AREA	x	WINTER POINT. MULT.	=	AS-BUILT WINTER POINTS
	2692	x	-0.58	=	-1561.36

USE TOTAL FLOOR AREA OF CONDITIONED SPACE.

TOTAL COMPONENT BASE WINTER POINTS
19753.5

TOTAL COMPONENT AS-BUILT WINTER POINTS
16242.3

HEATING SYSTEM	Base Heating System Multiplier	x	Total Base Winter Points	=	BASE HEATING POINTS
	.63	x	19753.5	=	12444.71

TOTAL AS-BUILT x WIN. PTS.	As-Built DM (6A-17)	x	As-Built DSM (6A-20)	x	As-Built AHU (6A-16)	x	As-Built HSM (6A-18)	x	As-Built HCM (6A-21)	=	AS-BUILT HEATING POINTS
16242.3	1.069	x	1.17 or 1.0	x	.93	x	.50	x		=	8073.8

TOTAL	BASE COOLING POINTS (From P. 2)	+	BASE HEATING POINTS	+	BASE HOT WATER POINTS (From P. 2)	=	TOTAL BASE POINTS (Enter on P. 1)
	16065.58	+	12444.71	+	8238	=	36748.29

AS-BUILT COOLING POINTS (From P. 2)	+	AS-BUILT HEATING POINTS	+	AS-BUILT HOT WATER POINTS (From P. 2)	=	TOTAL AS-BUILT POINTS (Enter on P. 1)
8896.74	+	8073.8	+	8238	=	25208.54

¹H = HORIZONTAL GLASS (SKYLIGHTS)

²FOR GLASS WITH KNOWN SHGC, SEE SECTION 2.1.1 APPENDIX C.

³MUST MEET CRITERIA OF S. 607.1.A.

TINT MULTIPLIERS MAY BE USED FOR GLASS WITH SOLAR SCREENS, FILM, OR TINT.

WINTER POINT MULTIPLIERS (WPM)

6A-10 WINTER OVERHANG FACTORS (WOF)

CLIMATE ZONES 1 2 3

SELECT BY OR	OH Ratio	.00-.11	.12-.17	.18-.26	.27-.35	.36-.46	.47-.57	.58-.70	.71-.83	.84-1.18	1.19-1.72	1.73-2.73	2.74 & up
	North	1.00	1.000	1.001	1.003	1.005	1.009	1.011	1.014	1.016	1.021	1.024	1.027
	Northeast	1.00	0.998	1.001	1.008	1.015	1.023	1.029	1.035	1.040	1.049	1.056	1.061
	East	1.00	1.007	1.018	1.040	1.069	1.109	1.150	1.198	1.242	1.338	1.429	1.507
	Southeast	1.00	1.014	1.043	1.111	1.202	1.332	1.472	1.635	1.787	2.113	2.412	2.650
	South	1.00	0.994	1.032	1.142	1.308	1.563	1.845	2.175	2.471	3.042	3.450	3.661
	Southwest	1.00	1.006	1.025	1.070	1.131	1.217	1.308	1.413	1.508	1.708	1.888	2.031
	West	1.00	1.002	1.010	1.027	1.049	1.077	1.102	1.128	1.149	1.187	1.217	1.238
	Northwest	1.00	0.999	1.000	1.004	1.008	1.012	1.016	1.019	1.022	1.028	1.032	1.036
	OH Length	0.0'	1.0'	1.5'	2.0'	3.0'	3.5'	4.5'	5.5'	6.5'	9.5'	14.0'	20.0'

6A-11 WALL WINTER POINT MULTIPLIERS (WPM)

FRAME					CONCRETE BLOCK (NORMAL WT)				FACE BRICK				LOG		
					INTERIOR INSULATION			EXT. INSUL.	R-VALUE	WOOD FR	R-VALUE	BLOCK			
									0-6.9	12.6	0-2.9	7.9			
R-VALUE	WOOD		STEEL		R-VALUE	EXT	ADJ	EXT	7-10.9	4.2	3-6.9	5.7	R-VALUE	6 INCH	8 INCH
EXT	ADJ	EXT	ADJ		0-2.9	11.2	6.8	11.2	11-18.9	3.5	7-9.9	3.8	0-2.9	4.5	3.0
0-6.9	11.1	10.4	15.1	13.1	3-4.9	7.3	5.1	5.6	19-25.9	2.2	10 & UP	3.0	3-6.9	2.8	2.2
7-10.9	4.4	4.4	7.3	6.6	5-6.9	5.7	4.2	4.3	26 & Up	1.4			7 & Up	2.1	1.7
11-12.9	3.7	3.6	5.7	5.2	7-10.9	4.6	3.5	3.3	<div>NOTE: SEE SECTION 2.0 OF APPENDIX C FOR MULTIPLIERS OF ENVELOPE COMPONENTS NOT ON THIS FORM.</div>						
13-18.9	3.4	3.3	5.2	4.9	11-18.9	3.0	2.6	2.2							
19-25.9	2.2	2.2	4.6	4.4	19-25.9	1.9	1.7								
26 & Up	1.5	1.5	2.7	2.6	26 & Up	1.3	1.2								

ADDITIONAL TABLES

CLIMATE ZONES 1 2 3

6A-19 COOLING CREDIT MULTIPLIERS (CCM)

SYSTEM TYPE	Cooling credit multipliers (CCM)
Ceiling Fans	.95*
Cross Ventilation	.95*
Whole House Fan	.95*
Multizone	.95
Programmable Thermostat	.95

*Credit may be taken for only one system type concurrently.

6A-20 AIR DISTRIBUTION SYSTEM CREDIT MULTIPLIERS

TYPE CREDIT	Prescriptive requirements	Multiplier
Airtight Duct credit ¹	610.1.A.1	1.00
Factory-sealed AHU credit ²	610.2.A.2.1	0.95

¹ Duct Sealing Multiplier (DSM) shall be 1.15 (summer) or 1.17 (winter) unless Airtight Duct credit is demonstrated by test report.

² Multiply Factory-sealed AHU credit by summer (Table 6A-7) or winter (Table 6A-16) AHU multiplier. Insert total in the "AS-Built AHU" box on page 2 or 4.

6A-21 HEATING CREDIT MULTIPLIERS (HCM)

SYSTEM TYPE	HCM	HEATING CREDIT MULTIPLIERS (HCM)						
Programmable Thermostat	HCM	.95						
Multizone	HCM	.95						
Natural Gas	AFUE	.68-.72	.73-.77	.78-.82	.83-.87	.88-.92	.93 & Up	
	HCM	.59	.55	.51	.48	.45	.43	
LP Gas	HCM	.79	.74	.69	.65	.61	.58	

6A-22 HOT WATER MULTIPLIERS (HWM)

SYSTEM TYPE See Table 6-12 for Code minimums		HOT WATER MULTIPLIERS (HWM)											
Electric Resistance	EF					.80-.81	.82-.83	.84-.85	.86-.87	.88-.90	.91-.93	.94-.96	.97 & Up
	HWM					3020	2946	2876	2809	2746	2655	2571	2491
Natural Gas	EF	.43-.47	.48-.49	.50-.51	.52-.53	.54-.55	.56-.57	.58-.59	.60-.61	.62-.63	.64-.65	.66 & Up	
	HWM	2231	1998	1918	1844	1776	1713	1654	1599	1547	1498	1453	
LP Gas	HWM	3029	2713	2605	2505	2411	2326	2245	2171	2101	2035	1973	
Ded. HP or Solar System with Tank	EF	1.0-1.49	1.5-1.99	2.0-2.49	2.5-2.99	3.0-3.49	3.5-3.99	4.0-4.49	4.5-4.99	5.0-Up			
	HWM	2416	1611	1208	966	805	690	604	537	483			

6A-23 HOT WATER CREDIT MULTIPLIERS (HWCN)

SYSTEM TYPE	HWCN	HOT WATER CREDIT MULTIPLIERS (HWCN)									
Heat Recovery Unit	With										
	HWCN										
Add-on Dedicated Heat Pump (without tank)	EF										
	HWCN										
Add-on Solar Water Heater (without tank)	EF										
	HWCN										

NOTE: A HWM must be used in conjunction with all HWCN. See Table 6A-22. EF Means Energy Factor.

6A-24 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	606.1.ABC.1.1	Max: .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 & floor. EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate.	
Floors	606.1.ABC.1.2.2	Penetrations/openings >1/8" sealed unless backed by truss or joint members. EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.	
Ceilings	606.1.ABC.1.2.3	Seal: 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-25 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 for vertical pipe risers.	
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 minimum insulation.	
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	604.1, 602.1	Ceilings—Min. R-19. Common walls—Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

Effective date: March 1, 2003

COLUMBIA COUNTY OFFICE OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

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

Parcel Number 27-5 -17-09420-003

Building permit No. 000021499

Use Classification SFD, UTILITY

Fire: 34.02

Permit Holder HAYGOOD HOMES

Waste: 73.50

Owner of Building JOHN SHERMAN

Total: 107.52

Location: 12614 S US HIGHWAY 441

Date: 03/16/2005

Harry Dicks

Building Inspector



POST IN A CONSPICUOUS PLACE
(Business Places Only)