

DATE 08/21/2003

Columbia County
Building Permit / Application

PERMIT

000021002

This Permit Expires One Year From Date of Issue

New Resident N

APPLICANT SAMMY KEEN PHONE 497.2289
ADDRESS 764 SW RIVERSIDE AVENUE FT. WHITE FL 32038
OWNER HERBERT KNAUF & JODI KNAUF PHONE 386.497.228
ADDRESS 529 PONCE BELEAN BLVD BELLEAIR FL 33756
CONTRACTOR GUY WILLIAMS PHONE 961.1725
LOCATION OF PROPERTY 47-S TO US 27 R, 5 ILES TO RIVERSIDE AVENUE, L GO 4/10 OF
A MILE LOT Y PRK ON THE RIGHT
TYPE DEVELOPMENT SFD,SEPTIC,UTILITY ESTIMATED COST OF CONSTRUCTION 67200.00
FLOOR AREA 2044.00 TOTAL AREA 3385.00 HEIGHT 33.60 STORIES 1 WALLS FRAMED
FOUNDATION CONC ROOF (Type & Pitch) 4'12 FLOOR CONC
LAND USE & ZONING ESA-2 MAX. HEIGHT 35
MINIMUM SET BACK: STREET-FRONT / SIDE 30.00 REAR 25.00 SIDE 20.00
NO. EX.D.U. FLOOD ZONE AE CERT. DATE DEV. PERMIT J-023-03-08

LEGAL DESCRIPTION

PARCEL ID 23-6S-15-00533-016 SUBDIVISION 3 RIVERS ESTATES
BLOCK LOT 16 UNIT 1 TOTAL ACRES 1.00

I certify that all work will be performed to meet the standards of all laws regulating construction in this jurisdiction and that all foregoing information accurate and all work will be done in compliance with all applicable laws regulating construction and zoning.

EXISTIN CBC050690
Driveway Connection Culvert Waiver Contractor's License Number Applicant/Owner/Contractor
02-0925-N BLK JDK
Septic Tank Number LU & Zoning checked by Approved for Issuance

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 framing
date/app. by date/app. by date/app. by
Rough-in plumbing above slab and below wood floor
date/app. by
Electrical rough-in Heat and Air Duct Peri. beam
date/app. by date/app. by date/app. by
Permanent power Final Pool
date/app. by date/app. by date/app. by

COMMENTS: 1 FT. ABOVE ROAD. V-0208-APPROVED SOUTH SIDE. 20' CK#6529

OTHER TYPES OF INSPECTIONS

Culvert M/H tie downs, blocking, electricity and plumbing
date/app. by date/app. by
Utility Pole Pump pole Reconnection
date/app. by date/app. by date/app. by

BUILDING PERMIT FEE \$ 340.00 ZONING CERT. FEE \$ 25.00 Certification Fee \$ 16.93 Surcharge \$ 16.93
MISC. FEES \$.00 CULVERT FEE \$ TOTAL PERMIT FEE \$ 398.86
INSPECTORS OFFICE CLERKS OFFICE

NOTICE: IN ADDITION TO THE REQUIREMENTS OF THIS PERMIT, THERE MAY BE ADDITIONAL RESTRICTIONS APPLICABLE TO THIS PROPERTY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY. AND THERE MAY BE ADDITIONAL PERMITS REQUIRED FROM OTHER GOVERNMENTAL ENTITIES SUCH AS WATER MANAGEMENT DISTRICTS, STATE AGENCIES, OR FEDERAL AGENCIES.

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

This Permit Must Be Prominently Posted on Premises During Construction

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

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

KNAUF-
02-0925-N

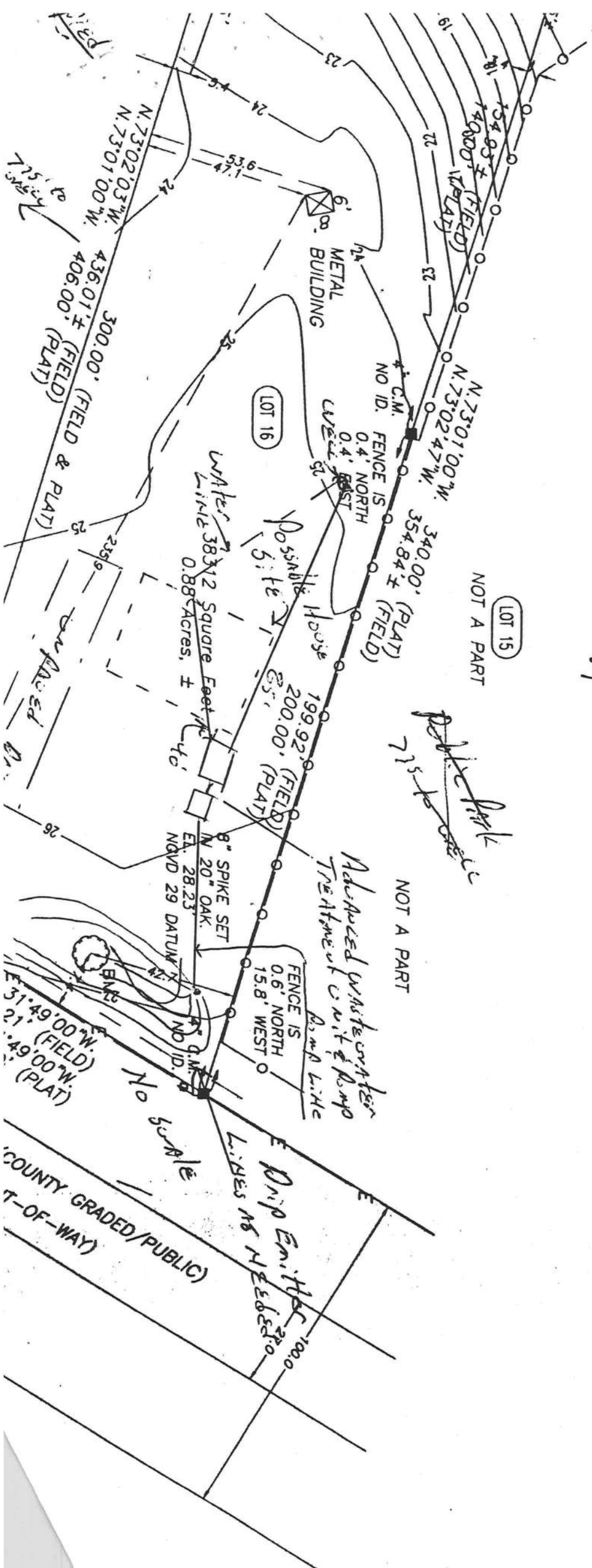
NOTE:
100 YEAR FLOOD ELEVATION IS 35 FEET.
10 YEAR FLOOD ELEVATION IS 31 FEET.
2 YEAR FLOOD ELEVATION IS 23 FEET.

occupied
113m
75' to well

NOT A PART

NOT A PART

NOT A PART



COLUMBIA COUNTY OFFICE 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 23-6S-15-00533-016

Building permit No. 000021002

Use Classification SFD,SEPTIC,UTILITY

Fire: 34.02

Permit Holder GUY WILLIAMS

Waste: 73.50

Owner of Building HERBERT KNAUF & JODI KNAUF

Total: 107.52

Location: 434 SW RIVERSIDE AVE, FT. WHITE 32038

Date: 04/16/2004



Tony Dieke

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

APPLICATION FOR DEVELOPMENT PERMIT

PERMIT NO. 7-023-03-018
(COUNTY NO. & SEQUENCE)DATE: 08-21-2003APPLICANT: SAMMY KEENADDRESS: 764 SW Riverside Avenue Ft. White, FL 32038TELEPHONE: (386) 497-2289OWNER: HERBERT KNAUF & JODI KNAUFADDRESS: 529 PONCE DELEON BLVD (BELLARINE, FL) 33756TELEPHONE: 727.385.8882NEW SUBDIVISION NO (YES/NO)IF YES, RECORD THE ENGINEER'S
REGISTRATION NO. P.E. NO.53915-MARK DISOSWAYTHTRS 23-65-15SUBDIVISION 3 RIVERS ESTATES LOT/BLOCK: 16 UNIT IDU SFD WORK —RIVER: ICHETUCKNEE RIVER MILE —PLAN NO (YES/NO) WELL PERMIT NO. —SUR-ELEVATION — SANITARY PERMIT NO. 02-0925-NSURVEYOR NO. — BUILDING PERMIT NO. 21002OFFICIAL 100-YEAR ELEVATION 34.0' MSL (SRWMD)REQUIRED LOWEST HABITABLE FLOOR ELEVATION 35.0 MSL (SRWMD)PERMIT APPROVED [Signature] 8-21-03
ADMINISTRATOR SIGNATURE DATEEXPIRATION DATE OF PERMIT 8-21-04VIOLATIONS: — FINAL INSPECTION DATE: —COMMENTS: 2 units finish floor elevation cent' fresh
ONE FOOT KPS& ON FILE.

FEDERAL EMERGENCY MANAGEMENT AGENCY
NATIONAL FLOOD INSURANCE PROGRAM

O.M.B. No. 3067-0077
Expires July 31, 2002

21082

ELEVATION CERTIFICATE

Important: Read the instructions on pages 1 - 7.

SECTION A - PROPERTY OWNER INFORMATION

BUILDING OWNER'S NAME BORA AND JODI KNAUF		For Insurance Company Use:	
BUILDING STREET ADDRESS (Including Apt., Unit, Suite, and/or Bldg. No.) OR P.O. ROUTE AND BOX NO. 434 SW RIVERSIDE AVE FT. WHITE, FLA.		Policy Number	
CITY FT. WHITE	STATE FLA.	Company NAIC Number	
PROPERTY DESCRIPTION (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) LOT 16 THREE RIVERS ESTATES UNIT 1		ZIP CODE 32038	
BUILDING USE (e.g., Residential, Non-residential, Addition, Accessory, etc. Use Comments section if necessary.) Residential			
LATITUDE/LONGITUDE (OPTIONAL) (##° - ##' - ###" or ###.####")		HORIZONTAL DATUM: SOURCE: <input type="checkbox"/> GPS (Type): <input type="checkbox"/> USGS Quad Map <input type="checkbox"/> Other:	
		<input type="checkbox"/> NAD 1927 <input type="checkbox"/> NAD 1983	

SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP COMMUNITY NAME & COMMUNITY NUMBER COLUMBIA COUNTY 120070		B2. COUNTY NAME COLUMBIA		B3. STATE FLORIDA	
B4. MAP AND PANEL NUMBER 120070 0225	B5. SUFFIX B	B6. FIRM INDEX DATE JAN. 6, 1988	B7. FIRM PANEL EFFECTIVE/REVISED DATE JAN. 6, 1988	B8. FLOOD ZONE(S) AE	B9. BASE FLOOD ELEVATION(S) (Zone AO, use depth of flooding) 34.0'

B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in B9.
☐ FIS Profile ☒ FIRM ☒ Community Determined ☐ Other (Describe): **SRWMD**

B11. Indicate the elevation datum used for the BFE in B9: ☒ NGVD 1929 ☐ NAVD 1988 ☐ Other (Describe):

B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? ☐ Yes ☐ No
Designation Date:

SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

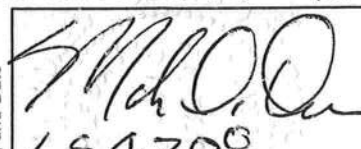
C1. Building elevations are based on: ☐ Construction Drawings* ☒ Building Under Construction* ☐ Finished Construction
*A new Elevation Certificate will be required when construction of the building is complete.

C2. Building Diagram Number **7** (Select the building diagram most similar to the building for which this certificate is being completed - see pages 6 and 7. If no diagram accurately represents the building, provide a sketch or photograph.)

C3. Elevations - Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO
Complete Items C3a-i below according to the building diagram specified in Item C2. State the datum used. If the datum is different from the datum used for the BFE in Section B, convert the datum to that used for the BFE. Show field measurements and datum conversion calculation. Use the space provided or the Comments area of Section D or Section G, as appropriate, to document the datum conversion.

Datum _____ Conversion/Comments _____

Elevation reference mark used **LOCAL BM** Does the elevation reference mark used appear on the FIRM? ☐ Yes ☒ No

<input type="checkbox"/> a) Top of bottom floor (including basement or enclosure)	25.9 ft.(m)	License Number, Embossed Seal, Signature, and Date	 LS 4708 11/24/03
<input type="checkbox"/> b) Top of next higher floor	36.1 ft.(m)		
<input type="checkbox"/> c) Bottom of lowest horizontal structural member (V zones only)	_____ ft.(m)		
<input type="checkbox"/> d) Attached garage (top of slab)	_____ ft.(m)		
<input type="checkbox"/> e) Lowest elevation of machinery and/or equipment servicing the building	24.4 ft.(m)		
<input type="checkbox"/> f) Lowest adjacent grade (LAG)	24.25 ft.(m)		
<input type="checkbox"/> g) Highest adjacent grade (HAG)	25.8 ft.(m)		
<input type="checkbox"/> h) No. of permanent openings (flood vents) within 1 ft. above adjacent grade	8		
<input type="checkbox"/> i) Total area of all permanent openings (flood vents) in C3h	2600 sq. in. (sq. cm)		

SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information.
I certify that the information in Sections A, B, and C on this certificate represents my best efforts to interpret the data available.
I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.

CERTIFIER'S NAME **MARK D. DUREN** LICENSE NUMBER **LS 4708**

TITLE **SURVEYOR AND MAPPER** COMPANY NAME **MARK D. DUREN**

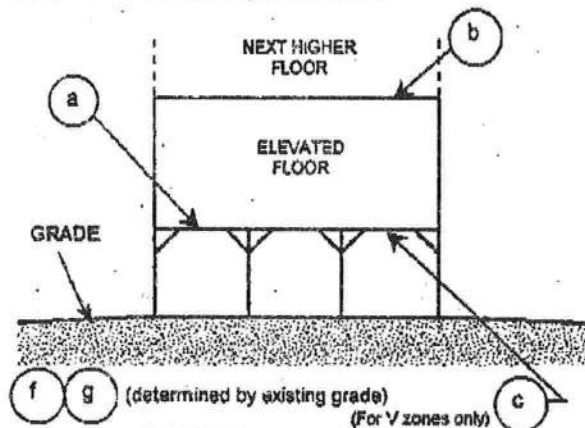
ADDRESS **RT 18 BOX 555** CITY **LAKE CITY** STATE **FL** ZIP CODE **32025**

SIGNATURE  DATE **11/24/03** TELEPHONE **386-758-9831**

DIAGRAM 5

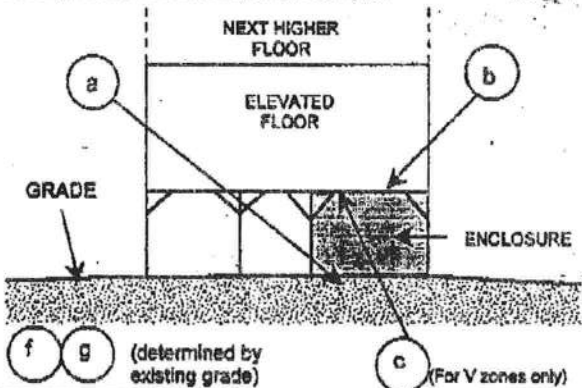
All buildings elevated on piers, posts, piles, columns, or parallel shear walls. No obstructions below the elevated floor.

Distinguishing Feature – For all zones, the area below the elevated floor is open, with no obstruction to flow of flood waters (open lattice work and/or readily removable insect screening is permissible).

**DIAGRAM 6**

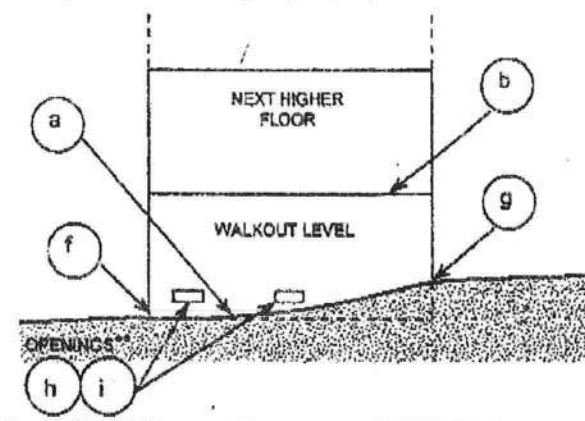
All buildings elevated on piers, posts, piles, columns, or parallel shear walls with full or partial enclosure below the elevated floor.

Distinguishing Feature – For all zones, the area below the elevated floor is enclosed, either partially or fully. In A Zones, the partially or fully enclosed area below the elevated floor is with or without openings** present in the walls of the enclosure. Indicate information about openings in Section C, Building Elevation Information (Survey Required).

**DIAGRAM 7**

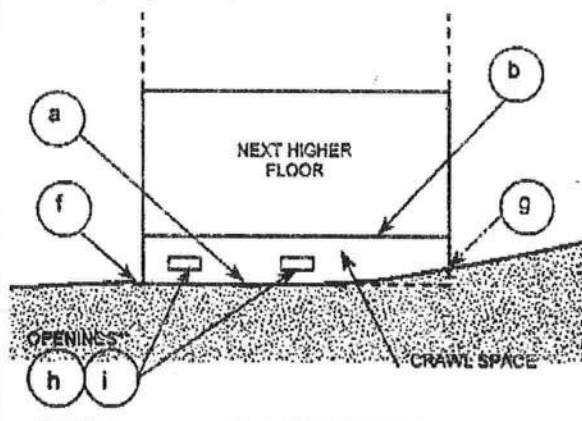
All buildings elevated on full-story foundation walls with a partially or fully enclosed area below the elevated floor. This includes walkout levels, where at least one side is at or above grade. The principal use of this building is located in the elevated floors of the building.

Distinguishing Feature – For all zones, the area below the elevated floor is enclosed, either partially or fully. In A Zones, the partially or fully enclosed area below the elevated floor is with or without openings** present in the walls of the enclosure. Indicate information about openings in Section C, Building Elevation Information (Survey Required).

**DIAGRAM 8**

All buildings elevated on a crawl space with the floor of the crawl space at or above grade on at least one side, with or without an attached garage.

Distinguishing Feature – For all zones, the area below the first floor is enclosed by solid or partial perimeter walls. In all A zones, the crawl space is with or without openings** present in the walls of the crawl space. Indicate information about the openings in Section C, Building Elevation Information (Survey Required).



** An "opening" (flood vent) is defined as a permanent opening in a wall that allows for the free passage of water automatically in both directions without human intervention. Under the NFIP, a minimum of two openings is required for enclosures or crawl spaces with a total net area of not less than one square inch for every square foot of area enclosed. Each opening must be on different sides of the enclosed area. If a building has more than one enclosed area, each area must have openings on exterior walls to allow floodwater to directly enter. The bottom of the openings must be no higher than one foot above the grade underneath the flood vents. Alternatively, you may submit a certification by a registered professional engineer or architect that the design will allow for the automatic equalization of hydrostatic flood forces on exterior walls. A window, a door, or a garage door is not considered an opening.

Mark Disosway, P.E.
POB 868, Lake City, FL 32056, Ph 386-754-5419, Fax 386-754-6749

One Foot Rise Analysis and Certification, 100 Year Base Flood

NEW KNAUF RESIDENCE, Lot 16, Three Rivers Estates, Section 1, Columbia County, FL

- ☐ PROPERTY DESCRIPTION: Lot 16, Three Rivers Estates, Section 1, as recorded in plat book 3, page 53 of the public records of Columbia County, Florida.
- ☐ OWNER: n/a
- ☐ CONTRACTOR: SLK Construction, Inc.
- ☐ PROJECT: A 49' x 52' wood frame home on vented 8" CMU 1st floor walls and 12" square CMU piers on slab and monolithic footing on natural grade with no added fill.
- ☐ BASE FLOOD ELEVATION: 34', Mile 7, Ichetucknee River (Per Mark D. Duren, Land Surveyor, FL #4708, Dwg. No. 02-319, Dated 14Jun2002, Based on FEMA Flood Insurance Rate Map, Dated -, Community Panel No. 120070 0225B.)
- ☐ FLOOD ZONE: AE
- ☐ BASIN AREA AT BASE FLOOD ELEVATION: 647 Acres (Calculated from SRWMD flood plain data.)
- ☐ PROPOSED BUILDING VOLUME BELOW FLOODPLAIN: (Piers) 6 * 12" * 12" * 10' + (Wall) 8" * 10' * 230' + (Slab) 2600 ft² * 4" + (Footing) 16" * 16" * 330' = 3045 ft³.
- ☐ EXISTING GRADE ELEVATION AT BUILDING LOCATION: Not lower than 27' average for one foot rise calculations. (Note: Existing grade at mobile home site was established by mobile home location drawn on survey by contractor (about 405' from center of lot line on 29th Loop) based on J. Sherman Frier & Associates elevations established on Dwg. No. 435-2001.)
- ☐ CALCULATIONS: The project only requires volume calculations in this area since it is not a flowing or riverine area.

Floodplain volume removed = 3045 ft³

Floodplain level increase = (3045 ft³) / 43560 ft²/acre / 647 acres = 0.00011 ft

CERTIFICATION:

I hereby certify that construction of NEW KNAUF RESIDENCE, Lot 16, Three Rivers Estates, Section 1, Columbia County, FL will increase flood elevations less than one foot at the project location, to the best of my knowledge.

Mark Disosway
22 MAY 03

Mark D. Disosway III

Columbia County
Building Permit Application

#21002

Date July 11 03

Application No. 0367-37

Applicants Name & Address SLK Construction Inc Phone 386 961-1725
764 SW Riverside Ave Ft White FL 32038

Owners Name & Address Herbert Knaut + Jodi Knaut Phone 727-585 8882
529 Ponce de Leon Blvd, Belleair FL 33756

Fee Simple Owners Name & Address None Same Phone _____

Contractors Name & Address SLK Construction Inc Guy Williams Phone 386 961-1725
764 SW Riverside Ave Ft White FL 32038

Legal Description of Property Sec 23 township 6 15 East Lot 16 of three Rivers
Estates Section 1

Location of Property 47 South to 27 Right 5 miles to Riverside Ave Left
down 4/10 of mile lot by Park, on Right

Tax Parcel Identification No. 23-65-15-009 33-016 Estimated Cost of Construction \$ 255,000.00

Type of Development Residential Number of Existing Dwellings on Property 0

Comprehensive Plan Map Category ENVIRONMENTAL SENSITIVE AREA Zoning Map Category ESA-2

Building Height 33'6" Number of Stories 3 Floor Area _____ Total Acreage in Development .88

Distance From Property Lines (Set Backs) Front 25 Side 25/22 Rear 100' Street -

Flood Zone yes AE Certification Date _____ Development Permit YES

Bonding Company Name & Address None

Architect/Engineer Name & Address Plisko Architecture PA, 800 Drew St, Clearwater FL 33755

Mortgage Lenders Name & Address None

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.

Sum L Green SLK Construction Inc,
Owner or Agent (including contractor) Contractor

Contractor License Number _____

STATE OF FLORIDA
COUNTY OF COLUMBIA
Sworn to (or affirmed) and subscribed before me
this _____ day of _____ by _____

STATE OF FLORIDA
COUNTY OF COLUMBIA
Sworn to (or affirmed) and subscribed before me
this _____ day of _____ by _____

Personally Known _____ OR Produced Identification
Personally Known _____ OR Produced Identification

Recording Fees: \$
Documentary Stamps: \$
Total: \$

Prepared By And Return To:

TITLE OFFICES, LLC
1089 SW MAIN BLVD.
LAKE CITY, FL 32025

File #02Y-11021MD:Administrator

Property Appraiser's Parcel ID Number(s):
0K233010

13 K-35A 01016:7 Date 01/22/2003 Time: 14:56

Doc stamp-fee: \$30.00

2222 DC, P. DeWitt Cason, Columbia County E: 973 F: 96

WARRANTY DEED

THIS WARRANTY DEED made and executed the 13th day of January, 2003 by
HOWARD HODOR, ~~husband~~ hereinafter called the Grantor, to
HERBERT P. KNAUF, III and JODI L. KNAUF, HIS WIFE, whose post office address is: 529 Norva Dr. Leon, Bldg
Bellevue, FL 33756
hereinafter called the Grantee.

(Whenever used herein the words "Grantor" and "Grantee" each include singular and plural, heirs, legal representatives, and assigns of individuals, and the successors and assigns of corporations, where in the context so admits or requires.)

WITNESSETH That the Grantor, for and in consideration of the sum of TEN DOLLARS (\$10.00) and other valuable considerations, receipt whereof is hereby acknowledged, by these presents does grant, bargain, sell, alien, remise, release, convey and confirm unto the Grantee all that certain land situate, lying and being in COLUMBIA County, State of Florida, viz:

Lot 16, Unit 1, Three Rivers Estates, a subdivision according to plat thereof recorded in Plat Book J, page 53, public records of Columbia County, Florida.

☒ If this box is checked, the Grantor warrants that the above described property is not his/her constitutional homestead as defined by the laws of the State of Florida. He/she resides at
240 NW 76th Dr. #D, Gainesville, FL 32607-6635

TOGETHER with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining TO HAVE AND TO HOLD the same in fee simple forever.
AND the Grantor hereby covenants with said Grantee that the Grantor is lawfully seized of said land in fee simple; that the Grantor has good right and lawful authority to sell and convey said land, and hereby warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances, except easements, restrictions and reservations of record, if any, and taxes accruing subsequent to December 31, 2002.

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

Signed, sealed and delivered
in the presence of:

Andrew G. Revell
Witness: Andrew G. Revell

Witness:

Andrew Hodor
Witness: Andrew Hodor

Witness:

STATE OF FLORIDA
COUNTY OF ALACHUA

I hereby certify that on this day, before me, an officer duly authorized in the State and County aforesaid to take acknowledgments, personally appeared HOWARD HODOR, who produced the identification described below, and who acknowledged before me that they executed the foregoing instrument. Witness my hand and official seal in the county and state aforesaid this 13th day of January, 2003.

Andrew G. Revell
Notary Public

Identification Examined: personally known



Andrew G. Revell
A COMMISSION & COMPANY EXPRESS
June 1, 2004
BONDED FIDELITY INSURANCE, INC.

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: cc911add@isgroup.net

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: 7-11-03

ENHANCED 9-1-1 ADDRESS:

434 SW Riverside Ave (Ft. White, FL, 32038)

Addressed Location 911 Phone Number: N/A

OCCUPANT NAME: Herbert P. Knauf + Jodi Knauf.

OCCUPANT CURRENT MAILING ADDRESS: 529 Ponce de Leon Blvd.
Belleair, FL, 33756.

PROPERTY APPRAISER MAP SHEET NUMBER: 14C

PROPERTY APPRAISER PARCEL NUMBER: 23-65-15-00533-016

Other Contact Phone Number (If any): _____

Building Permit Number (If known): _____

ADDRESSING DEPARTMENT ID#: _____
(Addressing Department Use Only, THIS IS NOT AN ADDRESS)

Remarks: LOT 16 / Unit 1 3 Rivers Est

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

0307-37



APPROXIMATE SCALE IN FEET



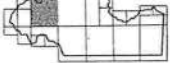
NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

COLUMBIA
COUNTY,
FLORIDA
(UNINCORPORATED AREAS)

PANEL 225 OF 290

PANEL LOCATION



COMMUNITY-PANEL NUMBER

120070 0225 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/nflsd.

Application for Onsite Sewage Disposal System
Construction Permit. Part II Site Plan

Permit Application Number: 02-09257

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

THREE RIVERS ESTATES INC/CR 02-9247



SEE ATTACHED

1 inch = 50 feet

Site Plan Submitted By Paul Lep Date 9/18/02
Plan Approved Paul Lep Not Approved _____ Date 9/18/02

By Paul Lep Sallie Maddy CPHU

Notes: ESL Columbia

Permit No. 21002

Tax Parcel No. 23-65-15-00533-016

COLUMBIA COUNTY NOTICE OF COMMENCEMENT

STATE OF FLORIDA

nst:2003018055 Date:08/22/2003 Time:15:04

COUNTY OF COLUMBIA

MCK DC, P. DeWitt Cason, Columbia County B:992 P:1489

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

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

Lot 16 Unit 1 Three Rivers Estates

434 SW Riverside Ave Ft White FL 32038

2. General description of improvement:

(New Home)

3. Owner information:

A. Name and address:

Herbert P. Knauf + Jodi Knauf

529 Ponce DeLeon Blvd, Belleair, FL 33756

B. Interest in property:

Owners

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

None

4. Contractor: (name and address)

S.H.K. Construction Inc.

Ft White FL 32038 764 SW Riverside Av.

5. Surety

A. Name and address: None

B. Amount of bond:

None

6. Lender: (name and address) None

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:

SHK Construction

8. In addition to himself, owner designates Sam L Keck
of SLK Construction Inc to receive a copy of
the Lienor's Notice as provided in Section 713.13 (1) (a) 7., Florida Statutes.

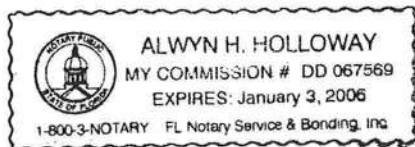
9. Expiration date of notice of commencement (the expiration date is 1 year from the
date of recording unless a different date is specified) _____

[Signature]

(Signature of Owner)

[Signature]

SWORN TO and subscribed before me this 21st day of July
19 2003



(NOTARIAL
SEAL)

Alwyn H Holloway
Notary Public

My Commission Expires: 1/3/06

nst:2003018055 Date:08/22/2003 Time:15:04
MCK DC,P.DeWitt Cason,Columbia County B:992 P:1490

KNAUF-

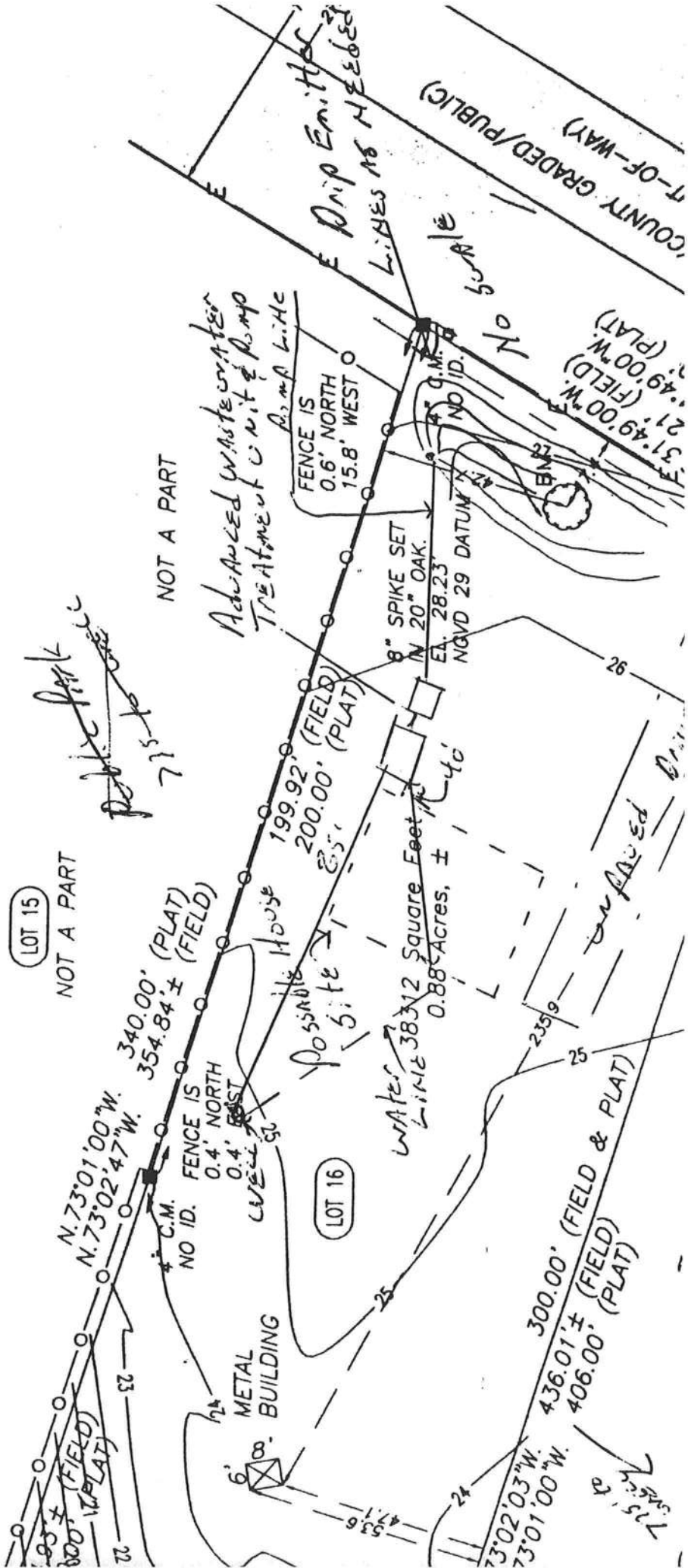
02-09

NOTE:

100 YEAR FLOOD ELEVATION IS 35 FEET.
10 YEAR FLOOD ELEVATION IS 31 FEET.
2 YEAR FLOOD ELEVATION IS 23 FEET.

occupied
wells & 12m

NOT A PART



FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

Project Name:	305031KnaufRes.	Builder:	SLK Construction
Address:	Lot: 16, Sub: 3 Rivers Estate, Plat:	Permitting Office:	
City, State:	, FL	Permit Number:	21062
Owner:	Knauf	Jurisdiction Number:	221000
Climate Zone:	North		

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 41.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 10.00
4. Number of Bedrooms	3	b. N/A	
5. Is this a worst case?	Yes	c. N/A	
6. Conditioned floor area (ft ²)	2490 ft ²	13. Heating systems	
7. Glass area & type		a. Electric Heat Pump	Cap: 44.0 kBtu/hr
a. Clear - single pane	0.0 ft ²		HSPF: 6.80
b. Clear - double pane	400.0 ft ²	b. N/A	
c. Tint/other SHGC - single pane	0.0 ft ²	c. N/A	
d. Tint/other SHGC - double pane	0.0 ft ²	14. Hot water systems	
8. Floor types		a. Electric Resistance	Cap: 40.0 gallons
a. Raised Wood	R=19.0, 1042.0 ft ²		EF: 0.89
b. Raised Wood, Post or Pier	R=19.0, 708.0 ft ²	b. N/A	
c. 2 Others	216.0 ft ²	c. Conservation credits	
9. Wall types		(HR-Heat recovery, Solar	
a. Concrete, Int Insul, Exterior	R=3.0, 282.0 ft ²	DHP-Dedicated heat pump)	
b. Concrete, Int Insul, Adjacent	R=3.0, 262.0 ft ²	15. HVAC credits	
c. Frame, Wood, Exterior	R=19.0, 2327.0 ft ²	(CF-Ceiling fan, CV-Cross ventilation,	
d. N/A		HF-Whole house fan,	
e. N/A		PT-Programmable Thermostat,	
10. Ceiling types		MZ-C-Multizone cooling,	
a. Under Attic	R=30.0, 2075.0 ft ²	MZ-H-Multizone heating)	
b. N/A			
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 220.0 ft		
b. N/A			

Glass/Floor Area: 0.16

Total as-built points: 35934

Total base points: 36667

PASS

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

PREPARED BY: Evan Beamsley

DATE: 5/20/07 *Evan Beamsley*

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

OWNER/AGENT: _____

DATE: _____

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



BUILDING OFFICIAL: _____

DATE: _____

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 16, Sub: 3 Rivers Estate, Plat: , , FL,

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES											
.18 X Conditioned X BSPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt		Area X SPM X SOF = Points				
.18	2490.0	20.04	8981.9	Double, Clear	E	3.0	6.5	60.0	40.22	0.75	1812.2
				Double, Clear	E	12.0	7.5	40.0	40.22	0.42	677.1
				Double, Clear	E	12.0	6.5	30.0	40.22	0.40	482.2
				Double, Clear	S	3.0	12.5	12.0	34.50	0.87	358.9
				Double, Clear	S	3.0	4.5	12.0	34.50	0.59	244.3
				Double, Clear	W	3.0	8.0	48.0	36.99	0.82	1451.5
				Double, Clear	W	3.0	7.0	3.0	36.99	0.78	86.4
				Double, Clear	W	3.0	7.5	10.0	36.99	0.80	295.7
				Double, Clear	W	3.0	4.5	36.0	36.99	0.64	850.2
				Double, Clear	N	3.0	9.0	24.0	19.22	0.90	415.2
				Double, Clear	N	3.0	10.0	12.0	19.22	0.92	211.2
				Double, Clear	N	3.0	6.0	12.0	19.22	0.83	191.7
				Double, Clear	E	3.0	9.0	45.0	40.22	0.85	1535.0
				Double, Clear	S	17.0	7.5	20.0	34.50	0.44	306.5
				Double, Clear	E	15.0	4.5	24.0	40.22	0.36	344.4
				Double, Clear	S	3.0	4.5	12.0	34.50	0.59	244.3
				As-Built Total:				400.0	9506.6		
WALL TYPES Area X BSPM = Points				Type	R-Value		Area X SPM = Points				
Adjacent	262.0	0.70	183.4	Concrete, Int Insul, Exterior	3.0		282.0	1.30		366.6	
Exterior	2609.0	1.70	4435.3	Concrete, Int Insul, Adjacent	3.0		262.0	0.80		209.6	
				Frame, Wood, Exterior	19.0		2327.0	0.90		2094.3	
Base Total:	2871.0		4618.7	As-Built Total:			2871.0	2670.5			
DOOR TYPES Area X BSPM = Points				Type			Area X SPM = Points				
Adjacent	19.8	2.40	47.5	Adjacent Insulated			19.8	1.60		31.7	
Exterior	68.6	6.10	418.5	Exterior Insulated			68.6	4.10		281.3	
Base Total:	88.4		466.0	As-Built Total:			88.4	312.9			
CEILING TYPES Area X BSPM = Points				Type	R-Value		Area X SPM X SCM = Points				
Under Attic	2075.0	1.73	3589.8	Under Attic	30.0		2075.0	1.73 X 1.00		3589.8	
Base Total:	2075.0		3589.8	As-Built Total:			2075.0	3589.8			

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 16, Sub: 3 Rivers Estate, Plat: , , FL,

PERMIT #:

BASE				AS-BUILT				
FLOOR TYPES	Area	X	BSPM = Points	Type	R-Value	Area	X	SPM = Points
Slab	48.0(p)		-37.0	Slab-On-Grade Edge Insulation	0.0	48.0(p)		-41.20
Raised	1918.0		-3.99	Raised Wood, Post or Pier	19.0	708.0		0.77
				Raised Wood, Adjacent	19.0	1042.0		0.40
				Raised Wood, Post or Pier	19.0	168.0		0.77
Base Total:				As-Built Total:				
			-9428.8			1966.0		-889.8
INFILTRATION Area X BSPM = Points				Area X SPM = Points				
	2490.0		10.21			2490.0		10.21
			25422.9					25422.9
Summer Base Points: 33650.4				Summer As-Built Points: 40612.9				
Total Summer Points	X	System Multiplier	= Cooling Points	Total Component	X	Cap Ratio	X	Duct Multiplier
							X	System Multiplier
							X	Credit Multiplier
								= Cooling Points
								(DM x DSM x AHU)
33650.4		0.4266	14355.3	40612.9	1.000	(1.090 x 1.147 x 0.91)	0.341	1.000
				40612.9	1.00	1.138	0.341	1.000
								15770.0
								15770.0

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 16, Sub: 3 Rivers Estate, Plat: , , FL,

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES											
.18 X Conditioned X BWPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt		Area X WPM X WOF = Points				
.18	2490.0	12.74	5710.1	Double, Clear	E	3.0	6.5	60.0	9.09	1.11	603.0
				Double, Clear	E	12.0	7.5	40.0	9.09	1.41	511.6
				Double, Clear	E	12.0	6.5	30.0	9.09	1.44	392.1
				Double, Clear	S	3.0	12.5	12.0	4.03	1.11	53.5
				Double, Clear	S	3.0	4.5	12.0	4.03	2.06	99.9
				Double, Clear	W	3.0	8.0	48.0	10.77	1.05	544.1
				Double, Clear	W	3.0	7.0	3.0	10.77	1.07	34.4
				Double, Clear	W	3.0	7.5	10.0	10.77	1.06	114.0
				Double, Clear	W	3.0	4.5	36.0	10.77	1.12	433.9
				Double, Clear	N	3.0	9.0	24.0	14.30	1.00	344.9
				Double, Clear	N	3.0	10.0	12.0	14.30	1.00	172.3
				Double, Clear	N	3.0	6.0	12.0	14.30	1.01	173.2
				Double, Clear	E	3.0	9.0	45.0	9.09	1.06	433.9
				Double, Clear	S	17.0	7.5	20.0	4.03	3.56	287.1
				Double, Clear	E	15.0	4.5	24.0	9.09	1.51	328.8
				Double, Clear	S	3.0	4.5	12.0	4.03	2.06	99.9
				As-Built Total:		400.0			4626.4		
WALL TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Adjacent	262.0	3.60	943.2	Concrete, Int Insul, Exterior	3.0		282.0	7.30		2058.6	
Exterior	2609.0	3.70	9653.3	Concrete, Int Insul, Adjacent	3.0		262.0	5.10		1336.2	
				Frame, Wood, Exterior	19.0		2327.0	2.20		5119.4	
Base Total: 2871.0 10596.5				As-Built Total:		2871.0			8514.2		
DOOR TYPES Area X BWPM = Points				Type			Area X WPM = Points				
Adjacent	19.8	11.50	227.7	Adjacent Insulated			19.8	8.00		158.4	
Exterior	68.6	12.30	843.8	Exterior Insulated			68.6	8.40		576.2	
Base Total: 88.4 1071.5				As-Built Total:		88.4			734.6		
CEILING TYPES Area X BWPM = Points				Type	R-Value		Area X WPM X WCM = Points				
Under Attic	2075.0	2.05	4253.8	Under Attic	30.0		2075.0	2.05 X 1.00		4253.8	
Base Total: 2075.0 4253.8				As-Built Total:		2075.0			4253.8		

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

ADDRESS: Lot: 16, Sub: 3 Rivers Estate, Plat: , , FL,

PERMIT #:

BASE				AS-BUILT					
FLOOR TYPES Area X BWPM = Points				Type	R-Value	Area X WPM = Points			
Slab	48.0(p)	8.9	427.2	Slab-On-Grade Edge Insulation	0.0	48.0(p)	18.80	902.4	
Raised	1918.0	0.96	1841.3	Raised Wood, Post or Pier	19.0	708.0	0.88	620.2	
				Raised Wood, Adjacent	19.0	1042.0	2.20	2292.4	
				Raised Wood, Post or Pier	19.0	168.0	0.88	147.2	
Base Total:			2268.5	As-Built Total:		1966.0	3962.2		
INFILTRATION Area X BWPM = Points				Area X WPM = Points					
			2490.0 -0.59 -1469.1				2490.0 -0.59 -1469.1		
Winter Base Points:			22431.2	Winter As-Built Points:			20622.1		
Total Winter X System = Heating Points Multiplier Points				Total X Cap X Duct X System X Credit = Heating Component Ratio Multiplier Multiplier Multiplier Points (DM x DSM x AHU)					
22431.2	0.6274	14073.3		20622.1	1.000	(1.069 x 1.169 x 0.93)	0.501	1.000	12018.6
				20622.1	1.00	1.162	0.501	1.000	12018.6

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 16, Sub: 3 Rivers Estate, Plat: , , FL,

PERMIT #:

BASE				AS-BUILT					
WATER HEATING									
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X	Tank X Ratio	X Multiplier X Credit Multiplier = Total
3		2746.00	8238.0	40.0	0.89	3		1.00	2715.15 1.00 8145.4
				As-Built Total:					8145.4

CODE COMPLIANCE STATUS

BASE					AS-BUILT				
Cooling Points	+	Heating Points	+	Hot Water Points = Total Points	Cooling Points	+	Heating Points	+	Hot Water Points = Total Points
14355		14073		8238 36667	15770		12019		8145 35934

PASS

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 83.0

The higher the score, the more efficient the home.

Knauf, Lot: 16, Sub: 3 Rivers Estate, Plat: , , FL,

1. New construction or existing	New	___	12. Cooling systems	
2. Single family or multi-family	Single family	___	a. Central Unit	Cap: 41.0 kBtu/hr ___
3. Number of units, if multi-family	1	___		SEER: 10.00 ___
4. Number of Bedrooms	3	___	b. N/A	___
5. Is this a worst case?	Yes	___	c. N/A	___
6. Conditioned floor area (ft ²)	2490 ft ²	___		___
7. Glass area & type		___	13. Heating systems	
a. Clear - single pane	0.0 ft ²	___	a. Electric Heat Pump	Cap: 44.0 kBtu/hr ___
b. Clear - double pane	400.0 ft ²	___		HSPF: 6.80 ___
c. Tint/other SHGC - single pane	0.0 ft ²	___	b. N/A	___
d. Tint/other SHGC - double pane	0.0 ft ²	___	c. N/A	___
8. Floor types		___		___
a. Raised Wood	R=19.0, 1042.0 ft ²	___	14. Hot water systems	
b. Raised Wood, Post or Pier	R=19.0, 708.0 ft ²	___	a. Electric Resistance	Cap: 40.0 gallons ___
c. 2 Others	216.0 ft ²	___		EF: 0.89 ___
9. Wall types		___	b. N/A	___
a. Concrete, Int Insul, Exterior	R=3.0, 282.0 ft ²	___	c. Conservation credits	___
b. Concrete, Int Insul, Adjacent	R=3.0, 262.0 ft ²	___	(HR-Heat recovery, Solar	___
c. Frame, Wood, Exterior	R=19.0, 2327.0 ft ²	___	DHP-Dedicated heat pump)	___
d. N/A	___	___	15. HVAC credits	___
e. N/A	___	___	(CF-Ceiling fan, CV-Cross ventilation,	___
10. Ceiling types		___	HF-Whole house fan,	___
a. Under Attic	R=30.0, 2075.0 ft ²	___	PT-Programmable Thermostat,	___
b. N/A	___	___	MZ-C-Multizone cooling,	___
c. N/A	___	___	MZ-H-Multizone heating)	___
11. Ducts		___		___
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 220.0 ft	___		___
b. N/A	___	___		___

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

Builder Signature: _____ Date: _____

Address of New Home: _____ City/FL Zip: _____



**NOTE: The home's estimated energy performance score is only available through the FLA/RES computer program. This is not a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStarTM 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 at 850/487-1824.*

EnergyGauge® (Version: FLR1PB v3.22)

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 16, Sub: 3 Rivers Estate, Plat: , , FL,

PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	612.1	Comply with efficiency requirements in Table 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. Common ceiling & floors R-11.	

Residential System Sizing Calculation

Summary

Knauf
, FL

Project Title:
305031KnaufRes.

Class 3 Rating
Registration No. 0
Climate: North

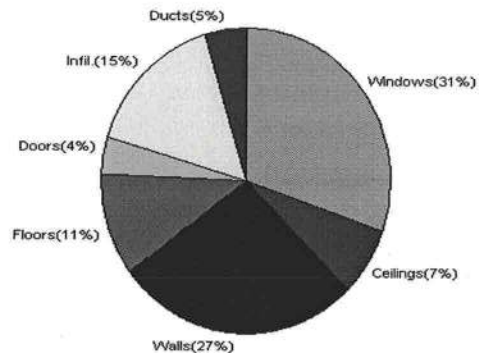
5/20/2003

Location for weather data: Gainesville - Defaults: Latitude(29) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(51gr.)			
Winter design temperature	31 F	Summer design temperature	93 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	39 F	Summer temperature difference	18 F
Total heating load calculation	37114 Btuh	Total cooling load calculation	34922 Btuh
Submitted heating capacity	44000 Btuh	Submitted cooling capacity	41000 Btuh
Submitted as % of calculated	118.6 %	Submitted as % of calculated	117.4 %

WINTER CALCULATIONS

Winter Heating Load (for 2490 sqft)

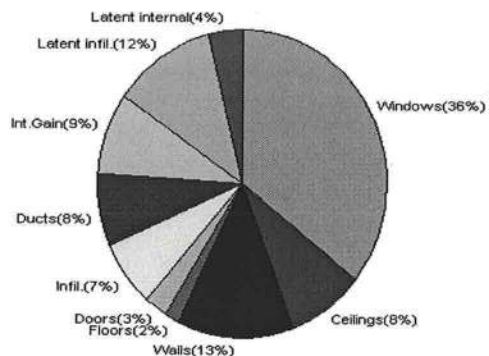
Load component	Load
Window total 400 sqft	11320 Btuh
Wall total 2871 sqft	10058 Btuh
Door total 88 sqft	1444 Btuh
Ceiling total 2075 sqft	2698 Btuh
Floor total See detail report	4119 Btuh
Infiltration 133 cfm	5709 Btuh
Subtotal	35347 Btuh
Duct loss	1767 Btuh
TOTAL HEAT LOSS	37114 Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 2490 sqft)

Load component	Load
Window total 400 sqft	12496 Btuh
Wall total 2871 sqft	4634 Btuh
Door total 88 sqft	896 Btuh
Ceiling total 2075 sqft	2947 Btuh
Floor total	543 Btuh
Infiltration 116 cfm	2305 Btuh
Internal gain	3000 Btuh
Subtotal(sensible)	26822 Btuh
Duct gain	2682 Btuh
Total sensible gain	29504 Btuh
Latent gain(infiltration)	4038 Btuh
Latent gain(internal)	1380 Btuh
Total latent gain	5418 Btuh
TOTAL HEAT GAIN	34922 Btuh



EnergyGauge® System Sizing based on ACCA Manual J.

PREPARED BY: *E. J. J. J.*

DATE: 5/20/03

System Sizing Calculations - Winter

Residential Load - Component Details

Knauf

Project Title:
305031KnaufRes.

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 39.0 F

5/20/2003

Window	Panes/SHGC/Frame/U	Orientation	Area X	HTM=	Load
1	2, Clear, Metal, DEF	N	60.0	28.3	1698 Btuh
2	2, Clear, Metal, DEF	N	40.0	28.3	1132 Btuh
3	2, Clear, Metal, DEF	N	30.0	28.3	849 Btuh
4	2, Clear, Metal, DEF	E	12.0	28.3	340 Btuh
5	2, Clear, Metal, DEF	E	12.0	28.3	340 Btuh
6	2, Clear, Metal, DEF	S	48.0	28.3	1358 Btuh
7	2, Clear, Metal, DEF	S	3.0	28.3	85 Btuh
8	2, Clear, Metal, DEF	S	10.0	28.3	283 Btuh
9	2, Clear, Metal, DEF	S	36.0	28.3	1019 Btuh
10	2, Clear, Metal, DEF	W	24.0	28.3	679 Btuh
11	2, Clear, Metal, DEF	W	12.0	28.3	340 Btuh
12	2, Clear, Metal, DEF	W	12.0	28.3	340 Btuh
13	2, Clear, Metal, DEF	N	45.0	28.3	1274 Btuh
14	2, Clear, Metal, DEF	E	20.0	28.3	566 Btuh
15	2, Clear, Metal, DEF	N	24.0	28.3	679 Btuh
16	2, Clear, Metal, DEF	E	12.0	28.3	340 Btuh
Window Total			400		11320 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Concrete - Exterior	3.0	282	11.3	3187 Btuh
2	Concrete - Adjacent	3.0	262	5.8	1520 Btuh
3	Frame - Exterior	19.0	2327	2.3	5352 Btuh
Wall Total			2871		10058 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjac		20	9.4	186 Btuh
2	Insulated - Exter		69	18.3	1257 Btuh
Door Total			88		1444Btuh
Ceilings	Type	R-Value	Area X	HTM=	Load
1	Under Attic	30.0	2075	1.3	2698 Btuh
Ceiling Total			2075		2698Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab-On-Grade Edge Insul	0	48.0 ft(p)	31.6	1517 Btuh
2	Raised Wood/Open	19	708.0 sqft	1.9	1345 Btuh
3	Raised Wood/Enclosed	19	1042.0 sqft	0.9	938 Btuh
4	Raised Wood/Open	19	168.0 sqft	1.9	319 Btuh
Floor Total			1966		4119 Btuh
Infiltration	Type	ACH X	Building Volume	CFM=	Load
	Natural	0.40	19920(sqft)	133	5709 Btuh
	Mechanical			0	0 Btuh
Infiltration Total				133	5709 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Knauf

Project Title:
305031KnaufRes.

Class 3 Rating
Registration No. 0
Climate: North

, FL

5/20/2003

Totals for Heating	Subtotal	35347 Btuh
	Duct Loss(using duct multiplier of 0.05)	1767 Btuh
	Total Btuh Loss	37114 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

Knauf

Project Title:
305031KnaufRes.

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults)

Summer Temperature Difference: 18.0 F

5/20/2003

Window	Type	Panes/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	3	6.5	60.0	0.0	60.0	22	22	1320	Btuh	
2	2, Clear, DEF, N, N	N	12	7.5	40.0	0.0	40.0	22	22	880	Btuh	
3	2, Clear, DEF, N, N	N	12	6.5	30.0	0.0	30.0	22	22	660	Btuh	
4	2, Clear, DEF, N, N	E	3	12.5	12.0	0.0	12.0	22	72	864	Btuh	
5	2, Clear, DEF, N, N	E	3	4.5	12.0	5.0	7.0	22	72	612	Btuh	
6	2, Clear, DEF, N, N	S	3	8	48.0	48.0	0.0	22	37	1056	Btuh	
7	2, Clear, DEF, N, N	S	3	7	3.0	3.0	0.0	22	37	66	Btuh	
8	2, Clear, DEF, N, N	S	3	7.5	10.0	10.0	0.0	22	37	220	Btuh	
9	2, Clear, DEF, N, N	S	3	4.5	36.0	36.0	0.0	22	37	792	Btuh	
10	2, Clear, DEF, N, N	W	3	9	24.0	0.0	24.0	22	72	1728	Btuh	
11	2, Clear, DEF, N, N	W	3	10	12.0	0.0	12.0	22	72	864	Btuh	
12	2, Clear, DEF, N, N	W	3	6	12.0	0.0	12.0	22	72	864	Btuh	
13	2, Clear, DEF, N, N	N	3	9	45.0	0.0	45.0	22	22	990	Btuh	
14	2, Clear, DEF, N, N	E	17	7.5	20.0	20.0	0.0	22	72	440	Btuh	
15	2, Clear, DEF, N, N	N	15	4.5	24.0	0.0	24.0	22	22	528	Btuh	
16	2, Clear, DEF, N, N	E	3	4.5	12.0	5.0	7.0	22	72	612	Btuh	
Window Total					400					12496 Btuh		
Walls	Type	R-Value			Area			HTM		Load		
	1	Concrete - Exterior			3.0			282.0		4.1		
	2	Concrete - Adjacent			3.0			262.0		1.9		
	3	Frame - Exterior			19.0			2327.0		1.3		
Wall Total						2871.0					4634 Btuh	
Doors	Type				Area			HTM		Load		
	1	Insulated - Adjac			19.8			10.1		201 Btuh		
	2	Insulated - Exter			68.6			10.1		696 Btuh		
Door Total						88.4					896 Btuh	
Ceilings	Type/Color	R-Value			Area			HTM		Load		
	1	Under Attic/Dark			30.0			2075.0		1.4		
Ceiling Total						2075.0					2947 Btuh	
Floors	Type	R-Value			Size			HTM		Load		
	1	Slab-On-Grade Edge Insulation			0.0			48.0 ft(p)		0.0		
	2	Raised Wood			19.0			708.0 sqft		0.6		
	3	Raised Wood			19.0			1042.0 sqft		0.0		
	4	Raised Wood			19.0			168.0 sqft		0.6		
Floor Total						1966.0					543 Btuh	
Infiltration	Type	ACH			Volume			CFM=		Load		
	Natural	0.35			19920			116.4		2305 Btuh		
	Mechanical							0		0 Btuh		
Infiltration Total						116					2305 Btuh	

Internal gain	Occupants	Btuh/occupant	Appliance	Load
	6	300	1200	3000 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Knauf

, FL

Project Title:
305031KnaufRes.

Class 3 Rating
Registration No. 0
Climate: North

5/20/2003

Totals for Cooling	Subtotal	26822 Btuh
	Duct gain(using duct multiplier of 0.10)	2682 Btuh
	Total sensible gain	29504 Btuh
	Latent infiltration gain (for 51 gr. humidity difference)	4038 Btuh
	Latent occupant gain (6 people @ 230 Btuh per person)	1380 Btuh
	Latent other gain	0 Btuh
	TOTAL GAIN	34922 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)

Notice of Treatment

10483

Applicator Name

FLA PEST CO

Address

City

Phone

752 1703

Site Location

Lot #

16

Block #

Subdivision

Three River Estates

Permit #

21002

Address

23-65-15-00533-016

AREAS TREATED

Date	Time	Gal.	Init.	Area Treated	Retreat Date	Time	Init.
9/15/03	1200	375	JAP	Main Body			
				Patio/s #			
				Stoop/s #			
				Porch/s #			
				Brick Veneer			
				Extension Walls			
				A/C Pad			
				Walk/s #			
				Exterior of Foundation			
				Driveway Curtain			
				Out Building			
				(Other)			
				(Other)			

Name of Chemical Applied

DURSABATE

% used

.05

%

Remarks

Exterior Grade not complete.

Applicator - White

Permit File - Canary

Permit Holder -Pink

Notice of Treatment

10483

Florida Pest Control & Chemical Co.

Address 534 SE Baya Ave

City LAKE CITY FL

Phone 7521703

Site Location Subdivision

Lot# 16 Block# Permit# 21002

Address 23-65-12-00537-010

AREAS TREATED

Area Treated	Date	Time	Gal.	Print Technician's Name
Main Body	<u>9-16-03</u>	<u>8:45</u>	<u>200</u>	<u>mike summerville</u>
Patio/s #				
Stoop/s #				
Porch/s #				
Brick Veneer				
Extension Walls				
A/C Pad				
Walk/s #				
Exterior of Foundation				
Driveway Apron				
Out Building				
Tub Trap/s				
(Other)				

Name of Product Applied Dursban TC .5 %

Remarks Initially sprayed before area was packed, re-treated this Date (9-16-03)

Applicator - White • Permit File - Canary • Permit Hold