

DATE 07/31/2007

Columbia County Building Permit

PERMIT

This Permit Expires One Year From the Date of Issue

000026075

APPLICANT ROXANNE NAPIER PHONE 719-7163

ADDRESS 2109 W US HIGHWAY 90 LAKE CITY FL 32055

OWNER NANCY FERGUSON PHONE 697-4323

ADDRESS 152 SW CHRIS TERR LAKE CITY FL 32024

CONTRACTOR ISAAC CONSTRUCTION PHONE 719-7143

LOCATION OF PROPERTY 47S, TR ON CR 242, TL ON ARROWHEAD RD, TL ON CANNON CREEK, TR ON CHRIS ROAD, 2ND LOT ON LEFT

TYPE DEVELOPMENT SFD,UTILITY ESTIMATED COST OF CONSTRUCTION 76800.00

HEATED FLOOR AREA 1536.00 TOTAL AREA 1776.00 HEIGHT STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 12/10 FLOOR SLAB

LAND USE & ZONING RR MAX. HEIGHT

Minimum Set Back Requirments: STREET-FRONT 25.00 REAR 15.00 SIDE 10.00

NO. EX.D.U. 0 FLOOD ZONE X PS DEVELOPMENT PERMIT NO.

PARCEL ID 24-4S-16-03103-021 SUBDIVISION CANNON CREEK ACRES

LOT 20 BLOCK PHASE UNIT TOTAL ACRES

000001427 CBC059323

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

CULVERT 07-590 BK JH Y

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

COMMENTS: ONE FOOT ABOVE THE ROAD, NOC ON FILE

Check # or Cash 8701

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power Foundation Monolithic

Under slab rough-in plumbing Slab Sheathing/Nailing

Framing Rough-in plumbing above slab and below wood floor

Electrical rough-in Heat & Air Duct Peri. beam (Lintel)

Permanent power C.O. Final Culvert

M/H tie downs, blocking, electricity and plumbing Pool

Reconnection Pump pole Utility Pole

M/H Pole Travel Trailer Re-roof

BUILDING PERMIT FEE \$ 385.00 CERTIFICATION FEE \$ 8.88 SURCHARGE FEE \$ 8.88

MISC. FEES \$ 0.00 ZONING CERT. FEE \$ 50.00 FIRE FEE \$ 0.00 WASTE FEE \$

FLOOD DEVELOPMENT FEE \$ FLOOD ZONE FEE \$ 25.00 CULVERT FEE \$ 25.00 TOTAL FEE 502.76

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 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.

CK# 8701
Columbia County Building Permit Application

For Office Use Only Application # 0707-54 Date Received 7/19 By JW Permit # 1427/26075
Application Approved by - Zoning Official B2K Date 30.07.07 Plans Examiner OKJTH Date 7-27-07
Flood Zone X Surveys Development Permit N/A Zoning RR Land Use Plan Map Category Res V.L. Dev.
Comments - NO SURVEYS - Refer to Engineer - Submittal. 2.2.1
☒ NOC ☒ EH ☒ Deed or PA ☒ Site Plan ☐ State Road Info ☐ Parent Parcel # ☐ Development Permi

Name Authorized Person Signing Permit Robanne Napier Phone 719-7143
Address 2109 W. W Hwy 90, Suite 170, PMB #338 Lake City, FL 32055
Owners Name Nancy Ferguson Phone 697-4323
911 Address 152 SW Chris Ter. C C FL 32024
Contractors Name Isaac Construction Phone 719-7143
Address 2109 W. W Hwy 90, Suite 170, PMB #338, Lake City, FL 32055
Fee Simple Owner Name & Address _____
Bonding Co. Name & Address _____
Architect/Engineer Name & Address Mark Disorway, Will Myers
Mortgage Lenders Name & Address First Federal
Circle the correct power company FL Power & Light Clay Elec. Suwannee Valley Elec. Progressive Energy
Property ID Number 24-45-16-03103-021 Estimated Cost of Construction 119,000
Subdivision Name Cannon Creek ADXES S/D UNPCL Lot 20 Block A Unit Phase
Driving Directions SR 47 S, TR on CR 242, TL on Arrowhead Rd, TL on Cannon Creek, TR on Chris Rd, Second lot on left

Type of Construction House Number of Existing Dwellings on Property 0
Total Acreage 1.041 Lot Size _____ Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Driv
Actual Distance of Structure from Property Lines - Front 70 Side 52'-3" Side 54'-1" Rear 270'-1"
Total Building Height 23'-0" Number of Stories 2 Heated Floor Area 1,536 SF Roof Pitch 12'
TOTAL 1,776

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

OWNERS AFFIDAVIT: I hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws and regulating construction and zoning.

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

Owner Builder or Authorized Person by Notarized Letter
Barbara C. Webster
Commission # DD329279
Expires July 2, 2008
Bonded Troy Pain - Insurance, Inc. 800-385-7019

Sworn to (or affirmed) and subscribed before me

this 19th day of July 2007.

Personally known X or Produced Identification _____

Contractor Signature
Contractors License Number CBC 059323
Competency Card Number _____
NOTARY STAMP/SEAL

Barbara C Webster

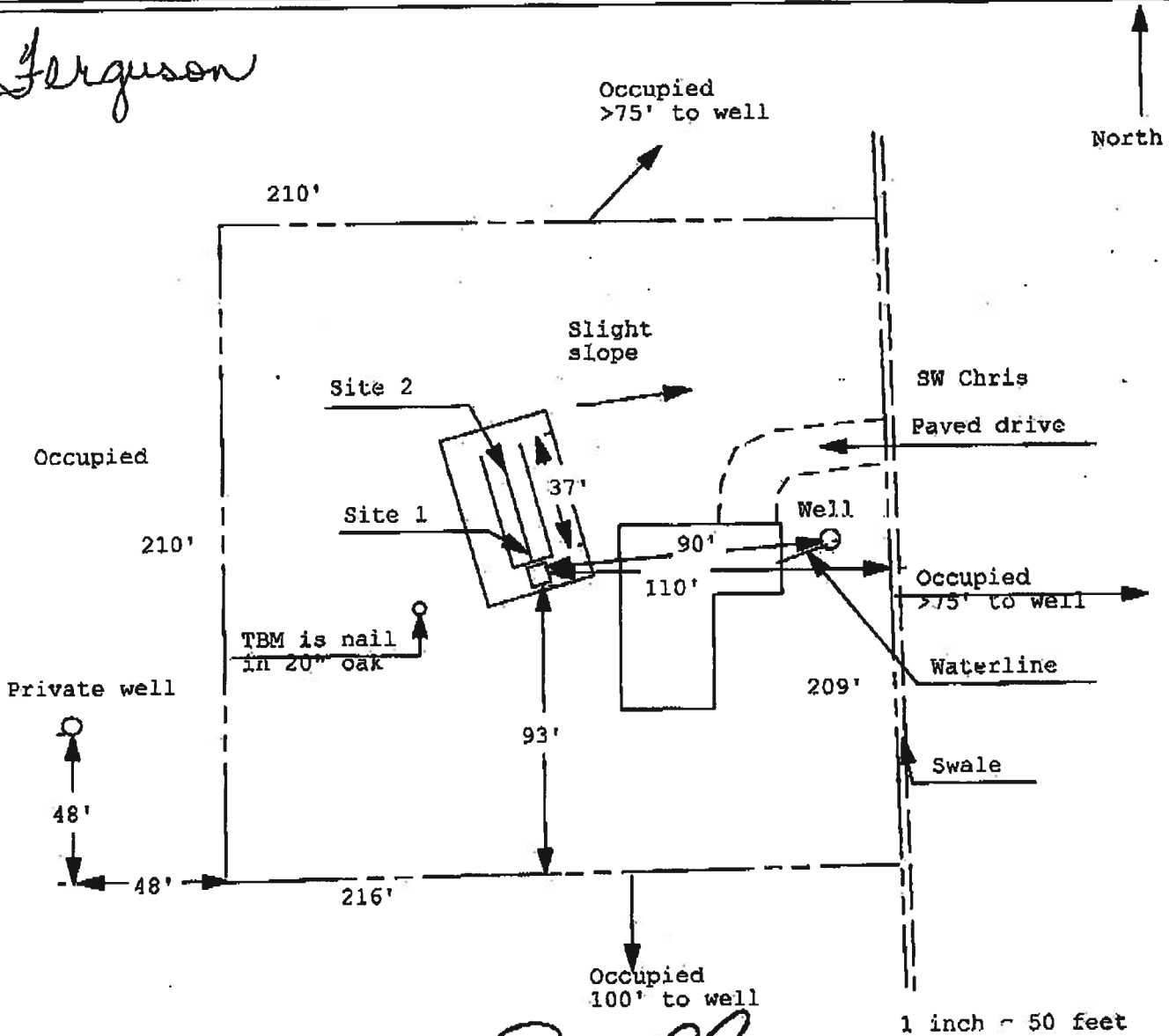
Notary Signature

(Revised Sept. 2006)

**Application for Onsite Sewage Disposal System
Construction Permit. Part II Site Plan**
Permit Application Number: 07-0590-N

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

Ferguson



Site Plan Submitted By Paul L. [Signature] Date 7/3/07
Plan Approved ☒ Not Approved ☐ Date 7/23/07
By Mr. [Signature] Columbis CPHU
Notes: _____

This Instrument Prepared By:
Michael H. Harrell
Abstract & Title Services, Inc.
283 NW Cole Terrace
Lake City, Florida 32055
ATS# 16534

GENERAL WARRANTY DEED

Individual to Individual (or Corporation/LLC)

This Warranty Deed made this 8th day of June, 2007 by

Ted E. Frampton, A Single Person

hereinafter called the Grantor, to

Inst:200712012779 Date:6/11/2007 Time:3:47 PM
Doc Stamp-Deed:308.00
DC, P. DeWitt Cason, Columbia County Page 1 of 2

Nancy Ann Ferguson

whose post office address is 263 NW Kelly Lake Court, Lake City, FL 32055, hereinafter called the Grantee.

(Wherever used herein the terms "Grantor" and "Grantee" include all the parties to this instrument and the heirs, legal representatives and assigns of Individuals, and the successors and assigns of Corporation.)

The Grantor, for and in consideration of the sum of \$10.00 and other valuable considerations, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, unto the Grantee all that certain land, situate in Columbia County, Florida, viz: TAX ID:R03103-021 :

See Exhibit "A" attached hereto and by this reference made a part hereof.

Together with all the tenements, hereditaments, and appurtenances thereto belonging or in any ways 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 taxes accruing subsequent to December 31, 2006.

In witness whereof, the said Grantor has signed and sealed these presents the day and year first above written.

WITNESS

Printed Name: Cheryl Beatty

WITNESS

Printed Name: Robert D Burn

Ted E. Frampton

State of Florida
County of Columbia

I hereby certify that on this 8th day of June, 2007, before me, an officer duly authorized to administer oaths and take acknowledgements, personally appeared Ted E. Frampton, A Single Person, who is personally known to me or produced a drivers license for identification, and known to me to be the person described in and who executed the foregoing instrument, who acknowledged before me that he/she/they executed the same, and an oath was not taken.

(SEAL)

NOTARY PUBLIC

My Commission Expires:



ATS #16534

Exhibit "A"

Commence at the Southwest corner of the Southwest $\frac{1}{4}$ of the Northeast $\frac{1}{4}$ of Section 24, Township 4 South, Range 16 East, Columbia County, Florida, and run North $86^{\circ}29'46''$ East, along the South line of SW $\frac{1}{4}$ of NE $\frac{1}{4}$, a distance of 926.71 feet; thence North $1^{\circ}22'55''$ West 254.02 feet to the Point of Beginning; thence South $86^{\circ}29'46''$ West 216.67 feet; thence North $1^{\circ}22'55''$ West 210.00 feet; thence N $86^{\circ}29'46''$ East 213.87 feet; thence South $2^{\circ}08'48''$ East 209.91 feet to the Point of Beginning. Also known as Lot 20A, Cannon Creek Acres Subdivision unrecorded.

A handwritten signature in black ink, appearing to read "Ted E. G. Gault", with a large, stylized flourish extending to the right.

16566

This instrument Prepared By:
Michael H. Harrell
Abstract & Title Services, Inc.
283 NW Cole Terrace
Lake City, Florida 32055

NOTICE OF COMMENCEMENT

TO WHOM IT MAY CONCERN:

The undersigned hereby give notice that improvements will be made to certain real property and in accordance with Chapter 713, Florida Statutes, the following is provided in this Notice of Commencement:

1. Description of Property: See Exhibit "A" attached hereto and by this reference made a part thereof
2. General Description of Improvement: Construction of Dwelling
3. Owner Information:
 - a. Name and Address: Nancy Ann Ferguson, 263 NW Kelly Lake Court, Lake City, FL 32055
 - b. Interest in property: Fee Simple
 - c. Name and address of fee simple title holder (If other than Owner): NONE
4. Contractor (name and address): Isaac Construction LLC, 2109 W US Highway 90, Suite 170, Lake City, FL 32055
5. Surety:

Inst: 200712012781 Date: 6/11/2007 Time: 3:57 PM
DC, P. DeWitt Cason, Columbia County Page 1 of 2

 - a. Name and Address: N/A
 - b. Amount of Bond: N/A
6. LENDER: First Federal Savings Bank of Florida
4705 West US Highway 90
PO Box 2029
Lake City, FL 32056
7. Persons within the State of Florida designated by Owner upon whom notices of other documents may be served as provided in Section 713.13(1)(a)7., Florida Statutes: NONE
8. In addition to himself, Owner designates PAULA HACKER, of FIRST FEDERAL SAVINGS BANK OF FLORIDA at 4705 WEST US HIGHWAY 90 / PO BOX 2029, LAKE CITY, FL 32056, to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b) Florida Statutes.
8. Expiration date of Notice of Commencement (the expiration date is 1 year from the date of recording unless a different date is specified).

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

Signed, sealed and delivered in the presence:

Cheryl Beatty
WITNESS
Robert D. Burns
WITNESS

Nancy Ann Ferguson
Nancy Ann Ferguson

STATE OF FLORIDA
COUNTY OF COLUMBIA

Before me, personally appeared Nancy Ann Ferguson, to me known to be the person(s) described in and who executed the foregoing instrument, and they acknowledged to and before me that they executed said instrument for the purpose therein expressed.

Witness my hand and official seal this 8th day of June, 2007.

(SEAL)

[Signature]
NOTARY PUBLIC

My Commission Expires:

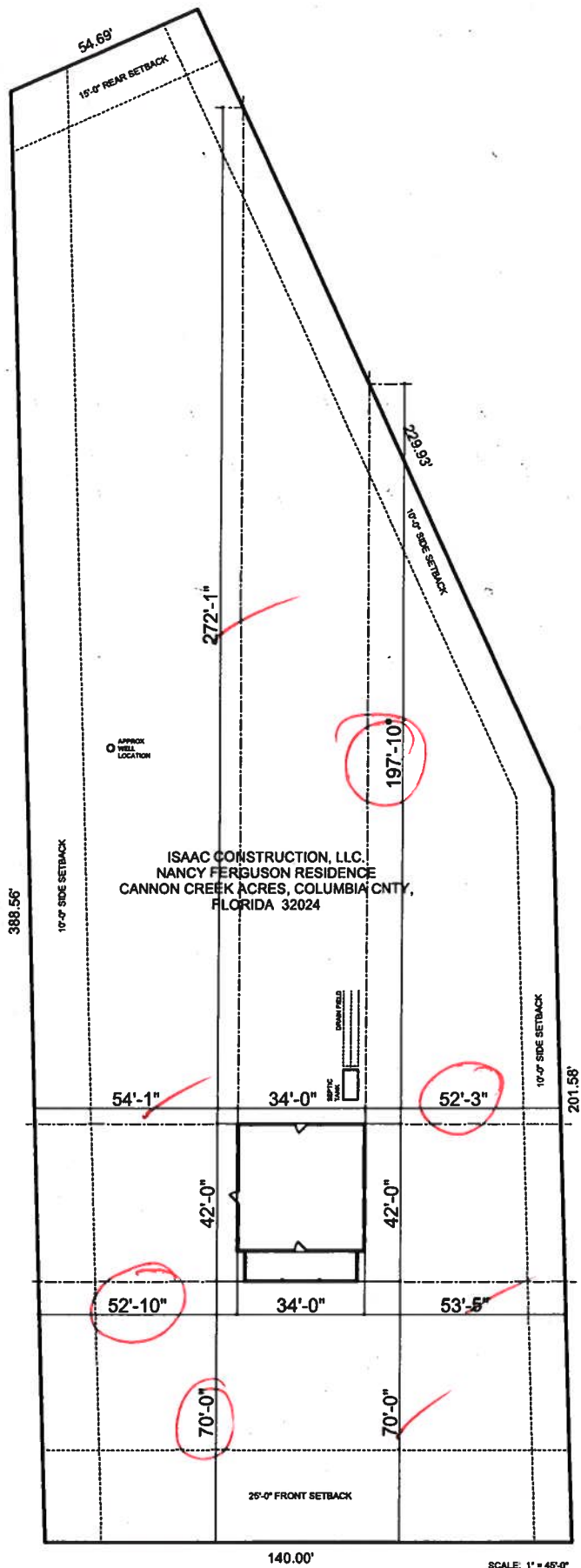


ATS #16566

Exhibit "A"

Commence at the Southwest corner of the Southwest $\frac{1}{4}$ of the Northeast $\frac{1}{4}$ of Section 24, Township 4 South, Range 16 East, Columbia County, Florida, and run North $86^{\circ}29'46''$ East, along the South line of SW $\frac{1}{4}$ of NE $\frac{1}{4}$, a distance of 926.71 feet; thence North $1^{\circ}22'55''$ West 254.02 feet to the Point of Beginning; thence South $86^{\circ}29'46''$ West 216.67 feet; thence North $1^{\circ}22'55''$ West 210.00 feet; thence N $86^{\circ}29'46''$ East 213.87 feet; thence South $2^{\circ}08'48''$ East 209.91 feet to the Point of Beginning. Also known as Lot 20A, Cannon Creek Acres Subdivision unrecorded.

NK



COLUMBIA COUNTY 9-1-1 ADDRESSING

P. O. Box 1787, Lake City, FL 32056-1787

PHONE: (386) 758-1125 * 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 REQUESTED: 6/25/2007 DATE ISSUED: 6/25/2007

ENHANCED 9-1-1 ADDRESS:

152 SW CHRIS

TER

LAKE CITY FL 32024

PROPERTY APPRAISER PARCEL NUMBER:

24-4S-16-03103-021

Remarks:

LOT 20 CANNON CREEK ACRES S/D UNREC

Address Issued By:



Columbia County 9-1-1 Addressing / GIS Department

NOTICE: THIS ADDRESS WAS ISSUED BASED ON LOCATION INFORMATION RECEIVED FROM THE REQUESTER. SHOULD, AT A LATER DATE, THE LOCATION INFORMATION BE FOUND TO BE IN ERROR, THIS ADDRESS IS SUBJECT TO CHANGE.

822

Approved Address

JUN 25 2007

911Addressing/GIS Dept

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

Project Name:	Isaac Construction - Ferguson	Builder:	Isaac Construction LLC
Address:	Lot: , Sub: , Plat:	Permitting Office:	COLUMBIA
City, State:	Columbia, FL	Permit Number:	26075
Owner:	Nancy Ferguson	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: 32.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 11.00
4. Number of Bedrooms	2	b. N/A	
5. Is this a worst case?	No	c. N/A	
6. Conditioned floor area (ft ²)	1536 ft ²		
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)		13. Heating systems	
a. U-factor:	Description Area	a. Electric Heat Pump	Cap: 32.0 kBtu/hr
(or Single or Double DEFAULT) 7a(Sngle Default)	193.0 ft ²		HSPF: 6.80
b. SHGC:		b. N/A	
(or Clear or Tint DEFAULT) 7b. (Clear)	193.0 ft ²	c. N/A	
8. Floor types		14. Hot water systems	
a. Slab-On-Grade Edge Insulation	R=0.0, 136.0(p) ft	a. Electric Resistance	Cap: 50.0 gallons
b. N/A			EF: 0.90
c. N/A		b. N/A	
9. Wall types		c. Conservation credits	
a. Frame, Wood, Exterior	R=13.0, 1035.0 ft ²	(HR-Heat recovery, Solar	
b. N/A		DHP-Dedicated heat pump)	
c. N/A		15. HVAC credits	PT,
d. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
e. N/A		HF-Whole house fan,	
10. Ceiling types		PT-Programmable Thermostat,	
a. Under Attic	R=30.0, 1536.0 ft ²	MZ-C-Multizone cooling,	
b. N/A		MZ-H-Multizone heating)	
c. N/A			
11. Ducts(Leak Free)			
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 30.0 ft		
b. N/A			

Glass/Floor Area: 0.13

Total as-built points: 18068

Total base points: 20981

PASS

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

PREPARED BY: [Signature]

DATE: 6-25-07

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: _____



¹ Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.

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

ADDRESS: Lot: , Sub: , Plat: , Columbia, 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	1536.0	20.04	5540.7	Single, Clear	W	1.5	8.0	15.0	43.84	0.96	630.0
				Single, Clear	W	1.5	8.0	20.0	43.84	0.96	840.0
				Single, Clear	N	1.5	8.0	18.0	21.73	0.97	378.3
				Single, Clear	N	1.5	8.0	15.0	21.73	0.97	315.3
				Single, Clear	E	9.5	8.0	60.0	47.92	0.47	1354.2
				Single, Clear	S	1.5	8.0	30.0	40.81	0.92	1130.4
				Single, Clear	E	9.5	8.0	20.0	47.92	0.47	451.4
				Single, Clear	N	1.5	8.0	15.0	21.73	0.97	315.3
				As-Built Total: 193.0 5414.9							
WALL TYPES Area X BSPM = Points				Type R-Value Area X SPM = Points							
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior			13.0	1035.0		1.50	1552.5
Exterior	1035.0	1.70	1759.5								
Base Total: 1035.0 1759.5				As-Built Total: 1035.0 1552.5							
DOOR TYPES Area X BSPM = Points				Type Area X SPM = Points							
Adjacent	0.0	0.00	0.0	Exterior Insulated				20.0		4.10	82.0
Exterior	20.0	4.10	82.0								
Base Total: 20.0 82.0				As-Built Total: 20.0 82.0							
CEILING TYPES Area X BSPM = Points				Type R-Value Area X SPM X SCM = Points							
Under Attic	1536.0	1.73	2657.3	Under Attic			30.0	1536.0	1.73 X 1.00		2657.3
Base Total: 1536.0 2657.3				As-Built Total: 1536.0 2657.3							
FLOOR TYPES Area X BSPM = Points				Type R-Value Area X SPM = Points							
Slab	136.0(p)	-37.0	-5032.0	Slab-On-Grade Edge Insulation			0.0	136.0(p)		-41.20	-5603.2
Raised	0.0	0.00	0.0								
Base Total: -5032.0				As-Built Total: 136.0 -5603.2							
INFILTRATION Area X BSPM = Points				Area X SPM = Points							
	1536.0	10.21	15682.6					1536.0	10.21		15682.6

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

ADDRESS: Lot: , Sub: , Plat: , Columbia, FL,

PERMIT #:

BASE				AS-BUILT						
Summer Base Points: 20690.0				Summer As-Built Points: 19786.0						
Total Summer Points	X System Multiplier	=	Cooling Points	Total Component (System - Points)	X Cap Ratio (DM x DSM x AHU)	X Duct Multiplier (1.09 x 1.000 x 0.91)	X System Multiplier 0.310	X Credit Multiplier 0.950	=	Cooling Points 5784.9
20690.0	0.4266		8826.4	19786	1.00	0.992	0.310	0.950		5784.9
				(sys 1: Central Unit 32000 btuh ,SEER/EFF(11.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS) 19786.0						

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: , Sub: , Plat: , Columbia, 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	1536.0	12.74	3522.4	Single, Clear	W	1.5	8.0	15.0	28.84	1.01	437.4
				Single, Clear	W	1.5	8.0	20.0	28.84	1.01	583.2
				Single, Clear	N	1.5	8.0	18.0	33.22	1.00	598.5
				Single, Clear	N	1.5	8.0	15.0	33.22	1.00	498.7
				Single, Clear	E	9.5	8.0	60.0	26.41	1.34	2118.4
				Single, Clear	S	1.5	8.0	30.0	20.24	1.04	632.1
				Single, Clear	E	9.5	8.0	20.0	26.41	1.34	706.1
				Single, Clear	N	1.5	8.0	15.0	33.22	1.00	498.7
				As-Built Total:				193.0	6073.2		
WALL TYPES				Area X BWPM = Points		Type	R-Value	Area X WPM = Points			
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior		13.0	1035.0	3.40		3519.0	
Exterior	1035.0	3.70	3829.5								
Base Total:				1035.0		3829.5		As-Built Total:		1035.0	
DOOR TYPES				Area X BWPM = Points		Type		Area X WPM = Points			
Adjacent	0.0	0.00	0.0	Exterior Insulated			20.0	8.40		168.0	
Exterior	20.0	8.40	168.0								
Base Total:				20.0		168.0		As-Built Total:		20.0	
CEILING TYPES				Area X BWPM = Points		Type	R-Value	Area X WPM X WCM = Points			
Under Attic	1536.0	2.05	3148.8	Under Attic		30.0	1536.0	2.05 X 1.00		3148.8	
Base Total:				1536.0		3148.8		As-Built Total:		1536.0	
FLOOR TYPES				Area X BWPM = Points		Type	R-Value	Area X WPM = Points			
Slab	136.0(p)	8.9	1210.4	Slab-On-Grade Edge Insulation		0.0	136.0(p)	18.80		2556.8	
Raised	0.0	0.00	0.0								
Base Total:				1210.4		As-Built Total:		136.0		2556.8	
INFILTRATION				Area X BWPM = Points				Area X WPM = Points			
				1536.0 -0.59 -906.2				1536.0 -0.59 -906.2			

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

ADDRESS: Lot: , Sub: , Plat: , Columbia, FL,

PERMIT #:

BASE			AS-BUILT						
Winter Base Points: 10972.8			Winter As-Built Points: 14559.6						
Total Winter Points	X System Multiplier	= Heating Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points	
10972.8	0.6274	6884.3	(sys 1: Electric Heat Pump 32000 btuh ,EFF(6.8) Ducts:Unc(S),Unc(R),Int(AH),R6.0 14559.6	1.000	(1.069 x 1.000 x 0.93)	0.501	0.950	6895.7	
			14559.6	1.00	0.994	0.501	0.950	6895.7	

WATER HEATING & CODE COMPLIANCE STATUS**Residential Whole Building Performance Method A - Details**

ADDRESS: Lot: , Sub: , Plat: , Columbia, FL,

PERMIT #:

BASE				AS-BUILT					
WATER HEATING				Tank	EF	Number of	X	Tank	X
Number of		Multiplier	=	Volume		Bedrooms		Ratio	Multiplier
Bedrooms			Total						Total
2		2635.00	5270.0	50.0	0.90	2		1.00	2693.56
									1.00
									5387.1
				As-Built Total:					5387.1

CODE COMPLIANCE STATUS

BASE					AS-BUILT				
Cooling	+	Heating	+	Hot Water	=	Total	Cooling	+	Heating
Points		Points		Points		Points	Points		Points
8826		6884		5270		20981	5785		6896
									5387
									18068

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: , Sub: , Plat: , Columbia, 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 612.1.ABC.3.2. 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.	

Tested sealed ducts must be certified in this house.

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 86.1

The higher the score, the more efficient the home.

Nancy Ferguson, Lot: , Sub: , Plat: , Columbia, FL,

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 32.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 11.00
4. Number of Bedrooms	2	b. N/A	
5. Is this a worst case?	No	c. N/A	
6. Conditioned floor area (ft ²)	1536 ft ²		
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)		13. Heating systems	
a. U-factor:	Description Area	a. Electric Heat Pump	Cap: 32.0 kBtu/hr
(or Single or Double DEFAULT) 7a(Sngle Default)	193.0 ft ²		HSPF: 6.80
b. SHGC:		b. N/A	
(or Clear or Tint DEFAULT) 7b. (Clear)	193.0 ft ²	c. N/A	
8. Floor types		14. Hot water systems	
a. Slab-On-Grade Edge Insulation	R=0.0, 136.0(p) ft	a. Electric Resistance	Cap: 50.0 gallons
b. N/A			EF: 0.90
c. N/A		b. N/A	
9. Wall types		c. Conservation credits	
a. Frame, Wood, Exterior	R=13.0, 1035.0 ft ²	(HR-Heat recovery, Solar	
b. N/A		DHP-Dedicated heat pump)	
c. N/A		15. HVAC credits	PT,
d. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
e. N/A		HF-Whole house fan,	
10. Ceiling types		PT-Programmable Thermostat,	
a. Under Attic	R=30.0, 1536.0 ft ²	MZ-C-Multizone cooling,	
b. N/A		MZ-H-Multizone heating)	
c. N/A			
11. Ducts(Leak Free)			
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 30.0 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.*

Energy Code Compliance

Duct System Performance Report

Project Name: Isaac Construction - Ferguson Address: City, State: Columbia, FL Owner: Nancy Ferguson Climate Zone: North	Builder: Isaac Construction LLC Permitting Office: Permit Number: Jurisdiction Number:
---	---

Total Duct System Leakage Test Results

CFM25 Total Duct Leakage Test Values			
Line	System	Duct Leakage Total	Duct Leakage to Outdoors
1	System1	_____ cfm25(tot)	_____ cfm25(out)
2	System2	_____ cfm25(tot)	_____ cfm25(out)
3	System3	_____ cfm25(tot)	_____ cfm25(out)
4	System4	_____ cfm25(tot)	_____ cfm25(out)
5	Total House Duct System Leakage	Sum lines 1-4 _____ Divide by _____ (Total Conditioned Floor Area) = _____ (Q _{n,tot}) ☐ Receive credit if Q _{n,tot} ≤ 0.03	Sum lines 1-4 _____ Divide by _____ (Total Conditioned Floor Area) = _____ (Q _{n,out}) ☐ Receive credit if Q _{n,out} ≤ 0.03 AND Q _{n,tot} ≤ 0.09

I hereby certify that the above duct testing performance results demonstrate compliance with the Florida Energy Code requirements in accordance with Section 610.1.A.1, Florida Building Code, Building Volume, Chapter 13 for leak free duct system credit.

Signature: _____
Printed Name: _____
Florida Rater Certification #: _____
DATE: _____

Florida Building Code requires that testing to confirm leak free duct systems be performed by a Class 1 Florida Energy Gauge Certified Energy Rater. Certified Florida Class 1 raters can be found at:
<http://energygauge.com/search.htm>



BUILDING OFFICIAL: _____
DATE: _____

Columbia County Building Department Culvert Permit

Culvert Permit No.
000001427

DATE 07/31/2007 PARCEL ID # 24-4S-16-03103-021

APPLICANT ROXANNE NAPIER PHONE 719-7163

ADDRESS 2109 W US HIGHWAY 90 LAKE CITY FL 32055

OWNER NANCY FERGUSON PHONE 697-4323

ADDRESS 152 SW CHRIS TERR LAKE CITY FL 32024

CONTRACTOR ISAAC CONSTRUCTION PHONE 719-7143

LOCATION OF PROPERTY 47S, TR ON CR 242, TL ON ARROWHEAD RD, TL ON CANNON CREEK,
TR ON CHRIS ROAD, 2ND LOT ON LEFT

SUBDIVISION/LOT/BLOCK/PHASE/UNIT CANNON CREEK ACRES 20

SIGNATURE

Roxanne Napier

INSTALLATION REQUIREMENTS



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

INSTALLATION NOTE: Turnouts will be required as follows:

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



Culvert installation shall conform to the approved site plan standards.



Department of Transportation Permit installation approved standards.



Other _____

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

135 NE Hernando Ave., Suite B-21
Lake City, FL 32055

Amount Paid 25.00

Phone: 386-758-1008 Fax: 386-758-2160



PRODUCT APPROVAL SPECIFICATION SHEET

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and approval numbers on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products.

Category/Subcategory	Manufacturer	Product Description	Approval Number
1. EXTERIOR DOORS			
A. SWINGING	PlastPRO INC	3068 x 6068 Fiberglass	4760.1 & 2
B. SLIDING	CAPITAL	806S	7055.1
C. SECTIONAL	Raynor	Classic Sectional Garage Door	FL-3070
D. ROLL UP	Jorus	Model 3100 - Rolling Sheet Door	FL-2274
E. AUTOMATIC			
F. OTHER			
2. WINDOWS			
A. SINGLE HUNG	Capital	48x84	6029.7
B. HORIZONTAL SLIDER	Capital	126x59	6024.4
C. CASEMENT			
D. DOUBLE HUNG	Darvic	Single Hung windows	FL1369
E. FIXED	Capital	96x72	6028/20
F. AWNING			
G. PASS THROUGH			
H. PROJECTED			
I. MULLION			
J. WIND BREAKER			
K. DUAL ACTION			
L. OTHER			
3. PANEL WALL			
A. SIDING	Alcoa	vinyl siding	FL1621
B. SOFFITS	ASI Building Pro.	Aluminum & vinyl soffit	FL5546 1 & 2
C. EIFS			
D. STOREFRONTS			
E. CURTAIN WALLS			
F. WALL LOUVER			
G. GLASS BLOCK			
H. MEMBRANE			
I. GREENHOUSE			
J. OTHER			
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES	Tamko	30-year shingles asphalt	FL673
B. UNDERLAYMENTS			
C. ROOFING FASTENERS			
D. NON-STRUCTURAL METAL ROOFING			
E. WOOD SHINGLES AND SHAKES			
F. ROOFING TILES			
G. ROOFING INSULATION			
H. WATERPROOFING			

ROOF SYSTEMS			
J. MODIFIED BITUMEN			
K. SINGLE PLY ROOF SYSTEMS			
L. ROOFING SLATE			
M. CEMENTS-ADHESIVES COATINGS			

Category/Subcategory	Manufacturer	Product Description	Approval Number
N. LIQUID APPLIED ROOF SYSTEMS			
O. ROOF TILE ADHESIVE			
P. SPRAY APPLIED POLYURETHANE ROOF			
Q. OTHER			
5. SHUTTERS			
A. ACCORDION			
B. BAHAMA			
C. STORM PANELS			
D. COLONIAL			
E. ROLL-UP			
F. EQUIPMENT			
G. OTHERS			
6. SKYLIGHTS			
A. SKYLIGHT			
B. OTHER			
7. STRUCTURAL COMPONENTS			
A. WOOD CONNECTORS/ ANCHORS	Simpson Strong	Wood connectors/anchors	FL1474
B. TRUSS PLATES	Alpine Engineered	Product - Alpine Truss Plates	FL999
C. ENGINEERED LUMBER	LPEWP	Laminated Beams, I Joist	FL1511
D. RAILING			
E. COOLERS-FREEZERS			
F. CONCRETE ADMIXTURES			
G. MATERIAL			
H. INSULATION FORMS			
I. PLASTICS			
J. DECK-ROOF			
K. WALL			
L. SHEDS			
M. OTHER			
8. NEW EXTERIOR ENVELOPE PRODUCTS			
A.			
B.			

The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of the products, the following information must be available to the inspector on the jobsite; 1) copy of the product approval, 2) the per characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturers installation requirements. Further, I understand these products may have to be removed if approval cannot be demonstrated during inspection.

Rodente Naper
APPLICANT SIGNATURE

12-6-06
DATE

L:\GENERAL\STATEPROD.XLS



Notice of Intent for Preventative Treatment for Termites

(As required by Florida Building Code (FBC) 104.2.6)

Aspen Pest Control, Inc.

(386) 755-3611

State License # - JB109476

State Certification # - JF104376

(Ferguson) 152 SW Chris Terrace Lake City, FL 32024 (Isaac)

Address of Treatment or Lot/Block of Treatment

Bora-Care Wood Treatment – 23% Disodium Octaborate Tetrahydrate

Method of Termite Prevention Treatment – Soil Barrier, Wood Treatment, Bait System, Other

Application onto Structural Wood

Description of Treatment

The above named structure will receive a complete treatment for the prevention of subterranean termites at the dried-in stage of construction. Treatment is done in accordance with the rules and laws established by the Florida Department of Agriculture and Consumer Services and according to EPA registered label directions as stated in Florida Building Code Section 1861.1.8.

Michelle Fischer
Authorized Signature

6-26-07
Date

Residential System Sizing Calculation

Summary

Nancy Ferguson

Columbia, FL

Project Title:
Isaac Construction - Ferguson

Code Only
Professional Version
Climate: North

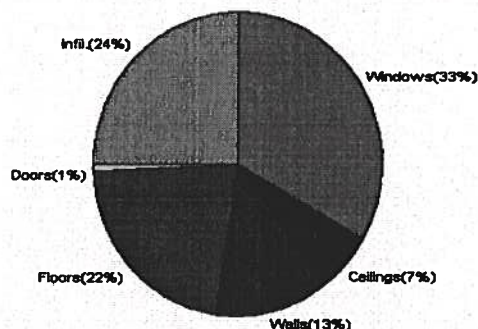
6/22/2007

Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)			
Winter design temperature	33 F	Summer design temperature	92 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	37 F	Summer temperature difference	17 F
Total heating load calculation	27111 Btuh	Total cooling load calculation	26497 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	118.0 32000	Sensible (SHR = 0.75)	117.3 24000
Heat Pump + Auxiliary(0.0kW)	118.0 32000	Latent	132.5 8000
		Total (Electric Heat Pump)	120.8 32000

WINTER CALCULATIONS

Winter Heating Load (for 1536 sqft)

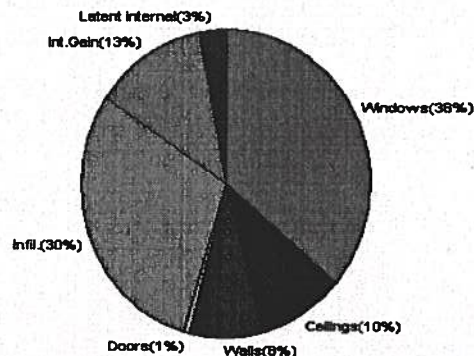
Load component		Load	
Window total	193 sqft	9069	Btuh
Wall total	1035 sqft	3399	Btuh
Door total	20 sqft	259	Btuh
Ceiling total	1536 sqft	1810	Btuh
Floor total	136 sqft	5938	Btuh
Infiltration	164 cfm	6637	Btuh
Duct loss		0	Btuh
Subtotal		27111	Btuh
Ventilation	0 cfm	0	Btuh
TOTAL HEAT LOSS		27111	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 1536 sqft)

Load component		Load	
Window total	193 sqft	9572	Btuh
Wall total	1035 sqft	2159	Btuh
Door total	20 sqft	196	Btuh
Ceiling total	1536 sqft	2544	Btuh
Floor total		0	Btuh
Infiltration	143 cfm	2668	Btuh
Internal gain		3320	Btuh
Duct gain		0	Btuh
Sens. Ventilation	0 cfm	0	Btuh
Total sensible gain		20458	Btuh
Latent gain(ducts)		0	Btuh
Latent gain(infiltration)		5239	Btuh
Latent gain(ventilation)		0	Btuh
Latent gain(internal/occupants/other)		800	Btuh
Total latent gain		6039	Btuh
TOTAL HEAT GAIN		26497	Btuh



For Florida residences only

EnergyGauge® System Sizing

PREPARED BY: Isaac Ferguson

DATE: 6-25-07

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Nancy Ferguson

Project Title:

Code Only

Columbia, FL

Isaac Construction - Ferguson

Professional Version

Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F

6/22/2007

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	1, Clear, Metal, 1.27	W	15.0	47.0	705 Btuh
2	1, Clear, Metal, 1.27	W	20.0	47.0	940 Btuh
3	1, Clear, Metal, 1.27	N	18.0	47.0	846 Btuh
4	1, Clear, Metal, 1.27	N	15.0	47.0	705 Btuh
5	1, Clear, Metal, 1.27	E	60.0	47.0	2819 Btuh
6	1, Clear, Metal, 1.27	S	30.0	47.0	1410 Btuh
7	1, Clear, Metal, 1.27	E	20.0	47.0	940 Btuh
8	1, Clear, Metal, 1.27	N	15.0	47.0	705 Btuh
Window Total			193(sqft)		9069 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1035	3.3	3399 Btuh
Wall Total			1035		3399 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exterior		20	12.9	259 Btuh
Door Total			20		259 Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1536	1.2	1810 Btuh
Ceiling Total			1536		1810 Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	136.0 ft(p)	43.7	5938 Btuh
Floor Total			136		5938 Btuh
Zone Envelope Subtotal:					20475 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.80	12288	163.8	6637 Btuh
Ductload	Proposed leak free, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)				0 Btuh
Zone #1	Sensible Zone Subtotal				27111 Btuh

WHOLE HOUSE TOTALS

	Subtotal Sensible	27111 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	27111 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Nancy Ferguson

Project Title:

Code Only

Columbia, FL

Isaac Construction - Ferguson

Professional Version

Climate: North

010012007



Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear (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)

For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Nancy Ferguson

Project Title:

Code Only

Columbia, FL

Isaac Construction - Ferguson

Professional Version

Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F

6/22/2007

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	1, Clear, Metal, 1.27	W	15.0		47.0	705 Btuh
2	1, Clear, Metal, 1.27	W	20.0		47.0	940 Btuh
3	1, Clear, Metal, 1.27	N	18.0		47.0	846 Btuh
4	1, Clear, Metal, 1.27	N	15.0		47.0	705 Btuh
5	1, Clear, Metal, 1.27	E	60.0		47.0	2819 Btuh
6	1, Clear, Metal, 1.27	S	30.0		47.0	1410 Btuh
7	1, Clear, Metal, 1.27	E	20.0		47.0	940 Btuh
8	1, Clear, Metal, 1.27	N	15.0		47.0	705 Btuh
Window Total			193(sqft)			9069 Btuh
Walls	Type	R-Value	Area X	HTM=	Load	
1	Frame - Wood - Ext(0.09)	13.0	1035	3.3	3399 Btuh	
Wall Total			1035		3399 Btuh	
Doors	Type		Area X	HTM=	Load	
1	Insulated - Exterior		20	12.9	259 Btuh	
Door Total			20		259 Btuh	
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load	
1	Vented Attic/D/Shin)	30.0	1536	1.2	1810 Btuh	
Ceiling Total			1536		1810 Btuh	
Floors	Type	R-Value	Size X	HTM=	Load	
1	Slab On Grade	0	136.0 ft(p)	43.7	5938 Btuh	
Floor Total			136		5938 Btuh	
Zone Envelope Subtotal:						20475 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	Load	
	Natural	0.80	12288	163.8	6637 Btuh	
Ductload	Proposed leak free, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)					0 Btuh
Zone #1	Sensible Zone Subtotal					27111 Btuh

WHOLE HOUSE TOTALS

	Subtotal Sensible	27111 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	27111 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Nancy Ferguson
Columbia, FL

Project Title:
Isaac Construction - Ferguson

Code Only
Professional Version
Climate: North

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear (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)



For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Nancy Ferguson

Project Title:

Code Only

Columbia, FL

Isaac Construction - Ferguson

Professional Version

Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F

6/22/2007

Component Loads for Whole House

Window	Type*	Ornt	Overhang		Window Area(sqft)			HTM		Load	
	Pn/SHGC/U/InSh/ExSh/IS		Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	1, Clear, 1.27, None,N,N	W	1.5ft	8ft.	15.0	0.0	15.0	37	94	1411	Btuh
2	1, Clear, 1.27, None,N,N	W	1.5ft	8ft.	20.0	0.0	20.0	37	94	1881	Btuh
3	1, Clear, 1.27, None,N,N	N	1.5ft	8ft.	18.0	0.0	18.0	37	37	674	Btuh
4	1, Clear, 1.27, None,N,N	N	1.5ft	8ft.	15.0	0.0	15.0	37	37	562	Btuh
5	1, Clear, 1.27, None,N,N	E	9.5ft	8ft.	60.0	58.6	1.4	37	94	2325	Btuh
6	1, Clear, 1.27, None,N,N	S	1.5ft	8ft.	30.0	30.0	0.0	37	43	1124	Btuh
7	1, Clear, 1.27, None,N,N	E	9.5ft	8ft.	20.0	19.7	0.3	37	94	769	Btuh
8	1, Clear, 1.27, None,N,N	N	1.5ft	8ft.	15.0	0.0	15.0	37	37	562	Btuh
Excursion										265	Btuh
Window Total					193 (sqft)					9572	Btuh
Walls 1	Type	R-Value/U-Value		Area(sqft)			HTM		Load		
	Frame - Wood - Ext	13.0/0.09		1035.0			2.1		2159 Btuh		
	Wall Total			1035 (sqft)					2159 Btuh		
Doors 1	Type			Area (sqft)			HTM		Load		
	Insulated - Exterior			20.0			9.8		196 Btuh		
	Door Total			20 (sqft)					196 Btuh		
Ceilings 1	Type/Color/Surface	R-Value		Area(sqft)			HTM		Load		
	Vented Attic/DarkShingle	30.0		1536.0			1.7		2544 Btuh		
	Ceiling Total			1536 (sqft)					2544 Btuh		
Floors 1	Type	R-Value		Size			HTM		Load		
	Slab On Grade	0.0		136 (ft(p))			0.0		0 Btuh		
	Floor Total			136.0 (sqft)					0 Btuh		
	Zone Envelope Subtotal:									14470 Btuh	
Infiltration	Type	ACH		Volume(cuft)			CFM=		Load		
	SensibleNatural	0.70		12288			143.4		2668 Btuh		
Internal gain	Occupants		Btuh/occupant			Appliance		Load			
	4		X 230 +			2400		3320 Btuh			
Duct load	Proposed leak free, R6.0, Supply(Attic), Return(Attic)							DGM = 0.00		0.0 Btuh	
	Sensible Zone Load									20458 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Nancy Ferguson
Columbia, FL

Project Title:
Isaac Construction - Ferguson

Code Only
Professional Version
Climate: North

6/22/2007

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	20458 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	20458 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	20458 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	5239 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (4 people @ 200 Btuh per person)	800 Btuh
	Latent other gain	0 Btuh
	Latent total gain	6039 Btuh
	TOTAL GAIN	26497 Btuh

*Key: Window types (Pn - Number of panes of glass)

(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(B), Draperies(D) or Roller Shades(R))

(ExSh - Exterior shading device: none(N) or numerical value)

(BS - Insect screen: none(N), Full(F) or Half(H))

(Ornt - compass orientation)



For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Nancy Ferguson

Project Title:

Code Only

Columbia, FL

Isaac Construction - Ferguson

Professional Version

Climate: North

Reference City: Gainesville (Defaults)

Summer Temperature Difference: 17.0 F

6/22/2007

Component Loads for Zone #1: Main

Window	Type*	Ornt	Overhang		Window Area(sqft)			HTM		Load	
	Pn/SHGC/U/InSh/ExSh/IS		Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	1, Clear, 1.27, None,N,N	W	1.5ft	8ft.	15.0	0.0	15.0	37	94	1411	Btuh
2	1, Clear, 1.27, None,N,N	W	1.5ft	8ft.	20.0	0.0	20.0	37	94	1881	Btuh
3	1, Clear, 1.27, None,N,N	N	1.5ft	8ft.	18.0	0.0	18.0	37	37	674	Btuh
4	1, Clear, 1.27, None,N,N	N	1.5ft	8ft.	15.0	0.0	15.0	37	37	562	Btuh
5	1, Clear, 1.27, None,N,N	E	9.5ft	8ft.	60.0	58.6	1.4	37	94	2325	Btuh
6	1, Clear, 1.27, None,N,N	S	1.5ft	8ft.	30.0	30.0	0.0	37	43	1124	Btuh
7	1, Clear, 1.27, None,N,N	E	9.5ft	8ft.	20.0	19.7	0.3	37	94	769	Btuh
8	1, Clear, 1.27, None,N,N	N	1.5ft	8ft.	15.0	0.0	15.0	37	37	562	Btuh
	Excursion									265	Btuh
	Window Total				193 (sqft)					9572 Btuh	
Walls	Type		R-Value/U-Value		Area(sqft)			HTM		Load	
1	Frame - Wood - Ext		13.0/0.09		1035.0			2.1		2159 Btuh	
	Wall Total				1035 (sqft)					2159 Btuh	
Doors	Type				Area (sqft)			HTM		Load	
1	Insulated - Exterior				20.0			9.8		196 Btuh	
	Door Total				20 (sqft)					196 Btuh	
Ceilings	Type/Color/Surface		R-Value		Area(sqft)			HTM		Load	
1	Vented Attic/DarkShingle		30.0		1536.0			1.7		2544 Btuh	
	Ceiling Total				1536 (sqft)					2544 Btuh	
Floors	Type		R-Value		Size			HTM		Load	
1	Slab On Grade		0.0		136 (ft(p))			0.0		0 Btuh	
	Floor Total				136.0 (sqft)					0 Btuh	
	Zone Envelope Subtotal:										14470 Btuh
Infiltration	Type		ACH		Volume(cuft)			CFM=		Load	
	SensibleNatural		0.70		12288			143.4		2668 Btuh	
Internal gain			Occupants		Btuh/occupant			Appliance		Load	
			4		X 230 +			2400		3320 Btuh	
Duct load	Proposed leak free, R6.0, Supply(Attic), Return(Attic)										0.0 Btuh
	Sensible Zone Load										20458 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Nancy Ferguson
Columbia, FL

Project Title:
Isaac Construction - Ferguson

Code Only
Professional Version
Climate: North

6/22/2007

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	20458 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	20458 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	20458 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	5239 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (4 people @ 200 Btuh per person)	800 Btuh
	Latent other gain	0 Btuh
	Latent total gain	6039 Btuh
	TOTAL GAIN	26497 Btuh

*Key: Window types (Pn - Number of panes of glass)

(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(B), Draperies(D) or Roller Shades(R))

(ExSh - Exterior shading device: none(N) or numerical value)

(BS - Insect screen: none(N), Full(F) or Half(H))

(Omt - compass orientation)



For Florida residences only

Residential Window Diversity

MidSummer

Nancy Ferguson

Columbia, FL

Project Title:
Isaac Construction - Ferguson

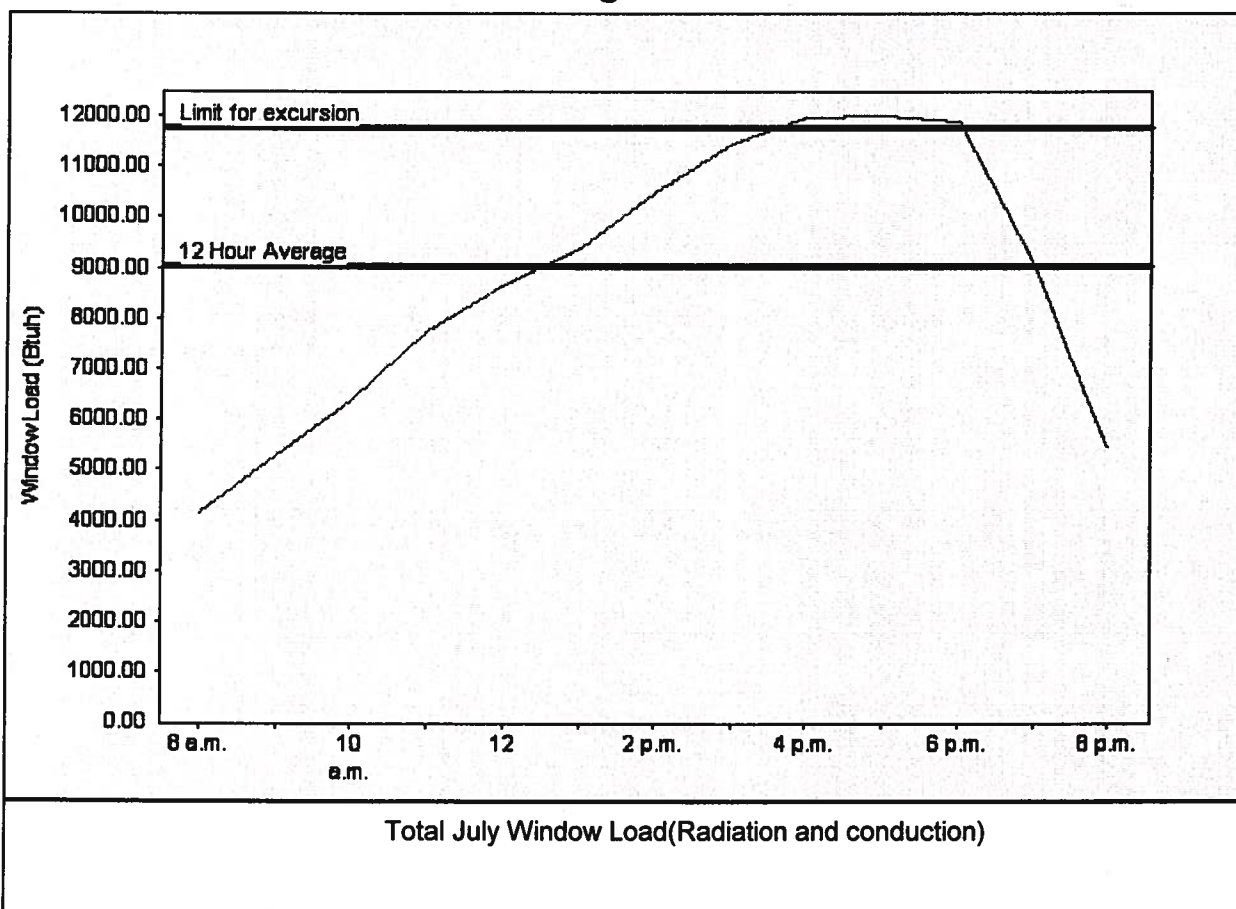
Code Only
Professional Version
Climate: North

6/22/2007

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	9036 Btuh
Summer setpoint	75 F	Peak window load for July	12011 Btu
Summer temperature difference	17 F	Excursion limit(130% of Ave.)	11747 Btu
Latitude	29 North	Window excursion (July)	265 Btuh

WINDOW Average and Peak Loads



Warning: This application has glass areas that produce relatively large heat gains for part of the day. Variable air volume devices may be required to overcome spikes in solar gain for one or more rooms. A zoned system may be required or some rooms may require zone control.

EnergyGauge® System Sizing for Florida residences only

PREPARED BY: _____

DATE: _____



Mark Disosway, P.E.

POB 868, Lake City, FL 32056, Ph (386) 754-5419

September 18, 2007

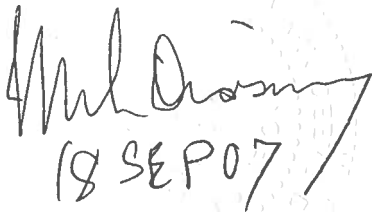
Building Department
Columbia County, Florida

Re: Framing Inspection: Nancy Ferguson Residence, 152 SW Chris Terrace, Lake City, FL 32024

Dear Building Inspector:

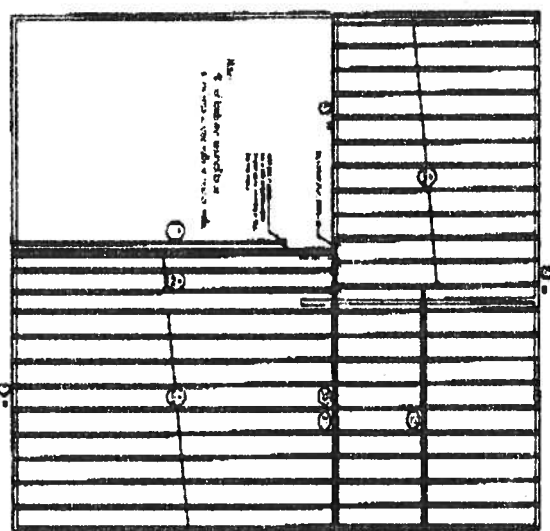
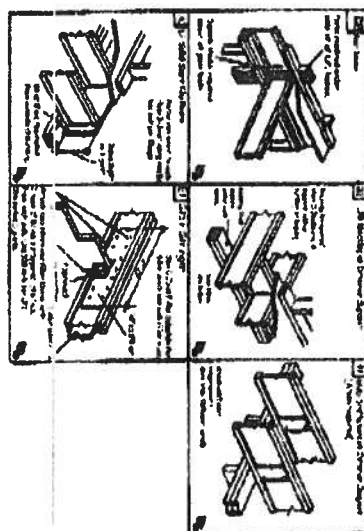
This letter is in reference to framing inspection issues at the above referenced house.

- The plan calls for the rafters to be attached to the ridge beam w/ a LUS210. The Framer did not install the rafter bucket.
 - Please add a 2x6 SYP#2 ledger under the rafters w/ (4) .131" x 3.25" gun nails per foot, staggered.
- The plan calls for the rafters to have a CS20 w/ (10) - 10d ridge tension strap @ each rafter. The framer did not install the ridge tension strap prior to sheathing the roof.
 - It is ok to install the ridge tension strap over top of the roof sheathing provided that full length 10d common nails are used.



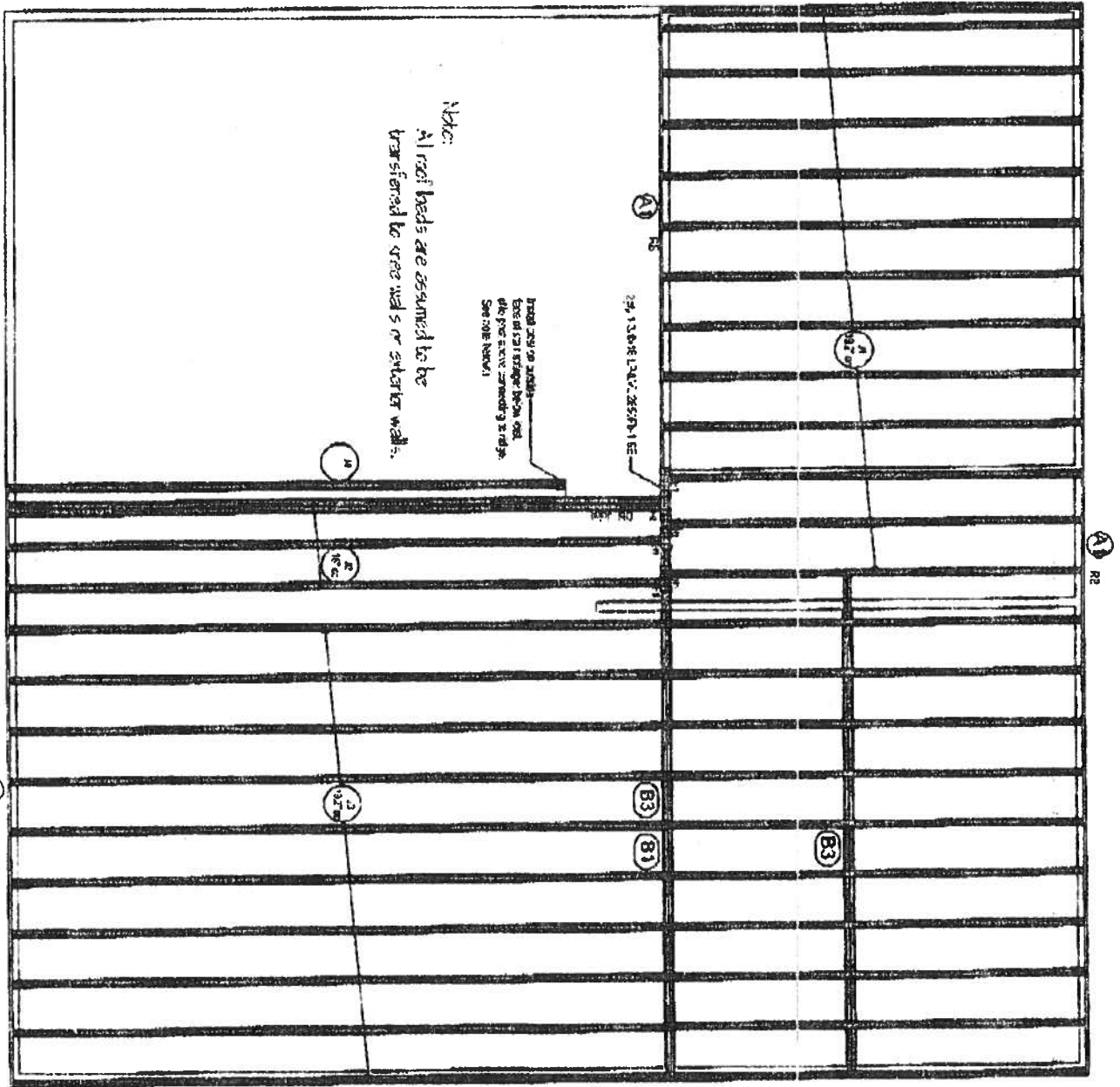
Mark Disosway, PE
Florida Registered Professional Engineer

Mark Disosway



CONFIDENTIAL PL4

[illegible][illegible]



2ND FLOOR PLACEMENT PLAN

30011 Alameda Street Design

- NOTE: THIS COMPONENT IS DESIGNED TO SUPPORT ONLY THE VERTICAL LOADS SHOWN VERIFICATION OF LATERAL BRACING FOR THE TOP FLANGE OF THE TOP CHORD MEMBER. FRAMING METHODS, WIND AND SEISMIC BRACING, AND OTHER LATERAL BRACING THAT IS ALWAYS REQUIRED IS THE RESPONSIBILITY OF THE PROJECT ENGINEER OR ARCHITECT.
2. PROVIDE RESTRAINT AT SUPPORTS TO ENSURE LATERAL STABILITY.
3. DO NOT CUT NOTCH OR DRILL UP FLANGES.
4. VERIFY ALL BEARINGS FOR FULL CONTACT.
5. VERIFY DIMENSIONS BEFORE CUTTING TO SIZE.
6. TOP FLANGE IS TO BE USED AS A FLOOR JOIST ONLY.
7. PROVIDE LATERAL BRACING FOR THE TOP FLANGE AT 3' O.C. OR LESS.
8. PROVIDE LATERAL BRACING FOR THE BOTTOM FLANGE AT EACH END OF COMPONENT.

LOAD TABLE

NOTE: LOADS SHOWN ARE FOR INPUT LOAD CASE (1). OTHER LOAD CASES FOR PATTERN LIVE LOADING ARE CHECKED AS REQUIRED. DIMENSIONS MEASURED FROM LEFT END OF SPAN OR CHAIR (EVER).

DISTRIBUTION	SOURCE	TYPE	TO	FROM	TO	LOAD	LDT
DECK	FLOOR	LIVE	TOP	17'-00"	17'-00"	1.00	1.00
DECK	FLOOR	DEAD	TOP	17'-00"	17'-00"	0.90	0.90
DECK	ROOF	LIVE	TOP	17'-00"	17'-00"	1.33	1.33
DECK	ROOF	DEAD	TOP	17'-00"	17'-00"	0.90	0.90

WARNING NOTES:

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PROVIDE RESTRAINT AT CONCENTRATED LOAD TO ENSURE LATERAL STABILITY

MINIMUM BEARING SIZES ARE SUFFICIENT TO PREVENT CRUSHING OF THE L.P. JOIST AS DESIGNED. IT IS THE RESPONSIBILITY OF THE PROJECT ENGINEER, ARCHITECT, OR DESIGNER TO VERIFY THAT THE SUPPORT STRUCTURE FOR THIS JOIST IS CAPABLE OF SUPPORTING THE REACTIONS.

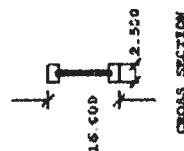
ANCHOR L.P. JOIST SECURELY TO BEARINGS OR HANGERS

DESIGN CRITERIA	MSI	FS
LIVE LOAD	40	FS
DEAD LOAD	15	FS
TOTAL LOAD	55	FS

SPACING = 19.20 IN. C/C

DEFLECTION CRITERIA: 1 / 480
LIVE LOAD DEF.: 1 / 240
TOTAL LOAD DEF.

CODE COMPLIANCE:
IRC-203
IRC-1305
WISCONSIN 200405-B
CSNC 12412-B



CROSS SECTION

SUPPORT REACTIONS (KIPS)

MEMBER	1	2	3	4	5	6
DOWN	1013	1044				
UP						

MIN BEARING SIZES (IN-SI)

1	2	3	4	5	6
---	---	---	---	---	---

MAXIMUM DEFLECTIONS

TYPE	LOAD	0.15"	0.23"	0.45"
------	------	-------	-------	-------

TOTAL LOAD

TYPE	LOAD	0.15"	0.23"	0.45"
------	------	-------	-------	-------

Bracing & Erection

This component is designed to support only the vertical loads shown. Verification of lateral bracing for the top chord member is the responsibility of the project engineer or architect. The design of the bracing system is not included in this document. The design of the bracing system is the responsibility of the project engineer or architect.

Design Criteria

The design of the component is based on the following assumptions: 1. The component is designed to support only the vertical loads shown. 2. The design of the bracing system is not included in this document. 3. The design of the bracing system is the responsibility of the project engineer or architect.

Miscellaneous Information

The design of the component is based on the following assumptions: 1. The component is designed to support only the vertical loads shown. 2. The design of the bracing system is not included in this document. 3. The design of the bracing system is the responsibility of the project engineer or architect.

L.P. LVL and CTR. L.P. Joist Specifications

1. Supports and connections for L.P. LVL and CTR. L.P. Joists to be specified according to the L.P. Joist and Connection Manual. 2. The design of the bracing system is not included in this document. 3. The design of the bracing system is the responsibility of the project engineer or architect.

Software Provided By:

L.P. Engineered Wood Products
2700 Highway 421 N. 2000
Winston-Salem, NC 27401
Local 910.652.3373
National 800.969.5106

DWG

07/20/07
1/4"

SHEET

1/4"

NOTE: THIS COMPONENT IS DESIGNED TO SUPPORT ONLY THE VERTICAL LOADS SHOWN. VERIFICATION OF LATERAL BRACING, DEFLECTION LIMITATIONS, FRAMING METHODS, AND ANCHORING, AND OTHER BRACING, AND OTHER LATERAL BRACING THAT IS ALWAYS REQUIRED IS THE RESPONSIBILITY OF THE PROJECT ENGINEER OR ARCHITECT.

2. PROVIDE RESTRAINT AT SUPPORTS TO ENSURE LATERAL STABILITY.

3. DO NOT CUT NOTCH OR DRILL UP FLANGES.

4. SMALL BEARINGS BLIND-DRILL CUTTING UP TO SIZE.

5. VERIFY DIMENSIONS BEFORE CUTTING UP TO SIZE.

6. THIS LIP IS TO BE USED AS A JOIST JOINT ONLY.

7. PROVIDE LATERAL BRACING FOR THE TOP FLANGE AT EACH JOINT.

8. PROVIDE LATERAL BRACING FOR THE BOTTOM FLANGE AT EACH END OF COMPONENT.

LOAD TABLE

NOTE: LOADS SHOWN ARE FOR INPUT CASE (1). OTHER LOAD CASES FOR PATTERNS UNIFORM LOADING ARE CHECKED AS REQUIRED. (DIMENSIONS MEASURED FROM LEFT END OF SPAN OR CANTILEVER.)

DISTRIBUTION	SOURCE TYPE	TOP/SIDE	LOAD	FROM	TO
DECKING	FLOOR LIVE	TOP	30	0-00-00	00-00-00
DECKING	FLOOR DEAD	TOP	18	0-00-00	00-00-00
DECKING	FLOOR LIVE	TOP	15	0-00-00	00-00-00
DECKING	FLOOR DEAD	TOP	20	0-00-00	00-00-00

WAPING NOTES:

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MINIMUM BEARING SIZES ARE SUFFICIENT TO PREVENT CRUSHING OF THE L.P. JOIST AS DESIGNED. IT IS THE RESPONSIBILITY OF THE PROJECT ENGINEER, ARCHITECT OR DESIGNER TO VERIFY THAT THE SUPPORT STRUCTURE FOR THIS JOIST IS CAPABLE OF SUPPORTING THE REACTIONS.

ANCHOR LIP JOIST SECURELY TO BEARINGS OR FANGERS.

DESIGN CRITERIA:

LIVE LOAD = 40 PSF

DEAD LOAD = 15 PSF

TOTAL LOAD = 55 PSF

SPACING = 16.00 IN C/C

DEFLECTION CRITERIA: 1 / 480

LIVE LOAD DEF: 1 / 240

TOTAL LOAD DEF: 1 / 240

CODE COMPLIANCES:

IRC 108-8

IRC 108-9

IRC 108-10

IRC 108-11

IRC 108-12

IRC 108-13

IRC 108-14

IRC 108-15

IRC 108-16

IRC 108-17

IRC 108-18

IRC 108-19

IRC 108-20

IRC 108-21

IRC 108-22

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IRC 108-94

IRC 108-95

IRC 108-96

IRC 108-97

IRC 108-98

IRC 108-99

IRC 108-100

NOTE FOR DOUBLE LIP

A. CONNECT DOUBLE LIP USING 2x8 x 5/8" CSB

B. LOCATED AT EACH SUPPORT AND AT 1/4" ON

C. CENTER MAX. FILLERS MUST BE AT LEAST 1/4" LONG

D. PROVIDE 1/4" LONG FILLERS AT ALL

E. CONCENTRATED LOADS. CENTER FILLER ON LOADS

F. FASTEN FILLERS THROUGH FILLERS WITH

G. BOTH SIDES STAGGER ROWS AND CLINCH

H. WHERE POSSIBLE

I. MAXIMUM SIZE APPLIED LOADS FOR STANDARD

J. DURATION UNIFORM LOAD = 250 PSF

K. CONCENTRATED LOAD = 1000 LBS. LOADS CAN BE

L. DUBLED FOR MAX. AT 1/4" TRIPLED FOR

M. MAX. AT 1/4" C/C ETC. AND MAY BE ADJUSTED

N. FOR OTHER LOAD DURATION

O. FLOOR SHEATHING TO BE NAIL TO FLANGES OF

P. BOTTOM JOISTS

DESIGN CRITERIA:

LIVE LOAD = 40 PSF

DEAD LOAD = 15 PSF

TOTAL LOAD = 55 PSF

SPACING = 16.00 IN C/C

DEFLECTION CRITERIA: 1 / 480

LIVE LOAD DEF: 1 / 240

TOTAL LOAD DEF: 1 / 240

CODE COMPLIANCES:

IRC 108-8

IRC 108-9

IRC 108-10

IRC 108-11

IRC 108-12

IRC 108-13

IRC 108-14

IRC 108-15

IRC 108-16

IRC 108-17

IRC 108-18

IRC 108-19

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IRC 108-93

IRC 108-94

IRC 108-95

IRC 108-96

IRC 108-97

IRC 108-98

IRC 108-99

IRC 108-100

DESIGN CRITERIA:

LIVE LOAD = 40 PSF

DEAD LOAD = 15 PSF

TOTAL LOAD = 55 PSF

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IRC 108-95

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IRC 108-97

IRC 108-98

IRC 108-99

IRC 108-100

NOTE: THIS COMPONENT IS DESIGNED TO SUPPORT ONLY THE VERTICAL LOADS SHOWN. VERIFICATION OF LATERAL BRACING, DEFLECTION LIMITATIONS, FRAMING METHODS, AND ANCHORING, AND OTHER BRACING, AND OTHER LATERAL BRACING THAT IS ALWAYS REQUIRED IS THE RESPONSIBILITY OF THE PROJECT ENGINEER OR ARCHITECT.

2. PROVIDE RESTRAINT AT SUPPORTS TO ENSURE LATERAL STABILITY.

3. DO NOT CUT NOTCH OR DRILL UP FLANGES.

4. SMALL BEARINGS BLIND-DRILL CUTTING UP TO SIZE.

5. VERIFY DIMENSIONS BEFORE CUTTING UP TO SIZE.

6. THIS LIP IS TO BE USED AS A JOIST JOINT ONLY.

7. PROVIDE LATERAL BRACING FOR THE TOP FLANGE AT EACH JOINT.

8. PROVIDE LATERAL BRACING FOR THE BOTTOM FLANGE AT EACH END OF COMPONENT.

LOAD TABLE

NOTE: LOADS SHOWN ARE FOR INPUT CASE (1). OTHER LOAD CASES FOR PATTERNS UNIFORM LOADING ARE CHECKED AS REQUIRED. (DIMENSIONS MEASURED FROM LEFT END OF SPAN OR CANTILEVER.)

DISTRIBUTION	SOURCE TYPE	TOP/SIDE	LOAD	FROM	TO
DECKING	FLOOR LIVE	TOP	30	0-00-00	00-00-00
DECKING	FLOOR DEAD	TOP	18	0-00-00	00-00-00
DECKING	FLOOR LIVE	TOP	15	0-00-00	00-00-00
DECKING	FLOOR DEAD	TOP	20	0-00-00	00-00-00

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ANCHOR LIP JOIST SECURELY TO BEARINGS OR FANGERS.

DESIGN CRITERIA:

LIVE LOAD = 40 PSF

DEAD LOAD = 15 PSF

TOTAL LOAD = 55 PSF

SPACING = 16.00 IN C/C

DEFLECTION CRITERIA: 1 / 480

LIVE LOAD DEF: 1 / 240

TOTAL LOAD DEF: 1 / 240

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IRC 108-23

IRC 108-24

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IRC 108-90

IRC 108-91

IRC 108-92

IRC 108-93

IRC 108-94

IRC 108-95

IRC 108-96

IRC 108-97

IRC 108-98

IRC 108-99

IRC 108-100

NOTE FOR DOUBLE LIP

A. CONNECT DOUBLE LIP USING 2x8 x 5/8" CSB

B. LOCATED AT EACH SUPPORT AND AT 1/4" ON

C. CENTER MAX. FILLERS MUST BE AT LEAST 1/4" LONG

D. PROVIDE 1/4" LONG FILLERS AT ALL

E. CONCENTRATED LOADS. CENTER FILLER ON LOADS

F. FASTEN FILLERS THROUGH FILLERS WITH

G. BOTH SIDES STAGGER ROWS AND CLINCH

H. WHERE POSSIBLE

I. MAXIMUM SIZE APPLIED LOADS FOR STANDARD

J. DURATION UNIFORM LOAD = 250 PSF

K. CONCENTRATED LOAD = 1000 LBS. LOADS CAN BE

L. DUBLED FOR MAX. AT 1/4" TRIPLED FOR

M. MAX. AT 1/4" C/C ETC. AND MAY BE ADJUSTED

N. FOR OTHER LOAD DURATION

O. FLOOR SHEATHING TO BE NAIL TO FLANGES OF

P. BOTTOM JOISTS

DESIGN CRITERIA:

LIVE LOAD = 40 PSF

DEAD LOAD = 15 PSF

TOTAL LOAD = 55 PSF

SPACING = 16.00 IN C/C

DEFLECTION CRITERIA: 1 / 480

LIVE LOAD DEF: 1 / 240

TOTAL LOAD DEF: 1 / 240

CODE COMPLIANCES:

IRC 108-8

IRC 108-9

IRC 108-10

IRC 108-11

IRC 108-12

IRC 108-13

IRC 108-14

IRC 108-15

IRC 108-16

IRC 108-17

IRC 108-18

IRC 108-19

IRC 108-20

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IRC 108-92

IRC 108-93

IRC 108-94

IRC 108-95

IRC 108-96

IRC 108-97

IRC 108-98

IRC 108-99

IRC 108-100

DESIGN CRITERIA:

LIVE LOAD = 40 PSF

DEAD LOAD = 15 PSF

TOTAL LOAD = 55 PSF

SPACING = 16.00 IN C/C

DEFLECTION CRITERIA: 1 / 480

LIVE LOAD DEF: 1 / 240

TOTAL LOAD DEF: 1 / 240

CODE COMPLIANCES:

IRC 108-8

IRC 108-9

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IRC 108-93

IRC 108-94

IRC 108-95

IRC 108-96

IRC 108-97

IRC 108-98

IRC 108-99

IRC 108-100

NOTE: THIS COMPONENT IS DESIGNED TO SUPPORT ONLY THE VERTICAL LOADS SHOWN. VERIFICATION OF LATERAL BRACING, DEFLECTION LIMITATIONS, FRAMING METHODS, AND ANCHORING, AND OTHER BRACING, AND OTHER LATERAL BRACING THAT IS ALWAYS REQUIRED IS THE RESPONSIBILITY OF THE PROJECT ENGINEER OR ARCHITECT.

2. PROVIDE RESTRAINT AT SUPPORTS TO ENSURE LATERAL STABILITY.

3. DO NOT CUT NOTCH OR DRILL UP FLANGES.

4. SMALL BEARINGS BLIND-DRILL CUTTING UP TO SIZE.

5. VERIFY DIMENSIONS BEFORE CUTTING UP TO SIZE.

6. THIS LIP IS TO BE USED AS A JOIST JOINT ONLY.

7. PROVIDE LATERAL BRACING FOR THE TOP FLANGE AT EACH JOINT.

8. PROVIDE LATERAL BRACING FOR THE BOTTOM FLANGE AT EACH END OF COMPONENT.

LOAD TABLE

NOTE: LOADS SHOWN ARE FOR INPUT CASE (1). OTHER LOAD CASES FOR PATTERNS UNIFORM LOADING ARE CHECKED AS REQUIRED. (DIMENSIONS MEASURED FROM LEFT END OF SPAN OR CANTILEVER.)

DISTRIBUTION	SOURCE TYPE	TOP/SIDE	LOAD	FROM	TO
DECKING	FLOOR LIVE	TOP	30	0-00-00	00-00-00
DECKING	FLOOR DEAD	TOP	18	0-00-00	00-00-00
DECKING	FLOOR LIVE	TOP	15	0-00-00	00-00-00
DECKING	FLOOR DEAD	TOP	20	0-00-00	00-00-00

WAPING NOTES:

THIS COMPONENT DESIGN IS SPECIFICALLY FOR L.P. ENGINEERED WOOD PRODUCTS. USE OF THIS DESIGN FOR ANYTHING OTHER THAN L.P. OR L.P. JOISTS IS STRICTLY PROHIBITED. ANY MODIFICATION OF THIS DOCUMENT REQUIRES REVIEW BY A DESIGN PROFESSIONAL.

MINIMUM BEARING SIZES ARE SUFFICIENT TO PREVENT CRUSHING OF THE L.P. JOIST AS DESIGNED. IT IS THE RESPONSIBILITY OF THE PROJECT ENGINEER, ARCHITECT OR DESIGNER TO VERIFY THAT THE SUPPORT STRUCTURE FOR THIS JOIST IS CAPABLE OF SUPPORTING THE REACTIONS.

ANCHOR LIP JOIST SECURELY TO BEARINGS OR FANGERS.

DESIGN CRITERIA:

LIVE LOAD = 40 PSF

DEAD LOAD = 15 PSF

TOTAL LOAD = 55 PSF

SPACING = 16.00 IN C/C

DEFLECTION CRITERIA: 1 / 480

LIVE LOAD DEF: 1 / 240

TOTAL LOAD DEF: 1 / 240

CODE COMPLIANCES:

IRC 108-8

IRC 108-9

IRC 108-10

IRC 108-11

IRC 108-12

IRC 108-13

NOTE: 1. THIS COMPONENT IS DESIGNED TO SUPPORT ONLY THE VERTICAL LOADS SHOWN IN THE FRAMING. LATERAL BRACING AND SEISMIC BRACING AND OTHER METHODS THAT ARE ALWAYS REQUIRED IS THE RESPONSIBILITY OF THE PROJECT ENGINEER OR ARCHITECT.
2. PROVIDE RESTRAINT AT SUPPORTS TO ENSURE LATERAL STABILITY.
3. DO NOT CUT NOTCH OR DRILL UP FLANGES.
4. SHIM ALL BEARINGS FOR FULL CONTACT.
5. VERIFY DIMENSIONS BEFORE CUTTING UP TO SIZE.
6. THIS UP IS TO BE USED AS A BLOCK JOIST ONLY.
7. PROVIDE LATERAL BRACING FOR THE TOP FLANGE AT 2' O.C. OR LESS.
8. PROVIDE LATERAL BRACING FOR THE BOTTOM FLANGE AT 2' O.C. OR LESS.

LOAD TABLE

NOTE: LOADS SHOWN ARE FOR UPHILL LOAD CASE (N). OTHER LOAD CASES FOR ATTENTION LIVE LOADING ARE CHECKED AS REQUIRED. (DIMENSIONS MEASURED FROM END OF SPAN OR CENTERLINE)

DISTRIBUTION	SOURCE TYPE	TOP/SIDE	FROM	TO	LOAD	LOC
UNIFORM	FLOOR LIVE	TOP	64'-2 1/2"	10'-00"	38'-00"	1.90
UNIFORM	FLOOR DEAD	TOP	24'-2 1/2"	10'-00"	38'-00"	0.90
LINEAR	ROOF LIVE	TOP	405'-2 1/2"	66'-10"	90'-00"	1.33
LINEAR	ROOF DEAD	TOP	405'-2 1/2"	66'-10"	90'-00"	1.33
LINEAR	ROOF DEAD	TOP	384'-2 1/2"	66'-10"	90'-00"	0.90
LINEAR	ROOF DEAD	TOP	384'-2 1/2"	66'-10"	90'-00"	0.90

WARNING NOTES

THIS COMPONENT DESIGN IS SPECIFICALLY FOR LP ENGINEERED WOOD PRODUCTS. USE OF THIS DESIGN FOR ANYTHING OTHER THAN LP LVL OR LP JOISTS IS STRICTLY PROHIBITED. ANY MODIFICATION OF THIS DOCUMENT REQUIRES REVIEW BY A DESIGN PROFESSIONAL.

PROVIDE RESTRAINT AT CONCENTRATED LOAD TO ENSURE LATERAL STABILITY.

ANCHOR LVL JOIST SECURELY TO BEARINGS OR RANGERS

LP FLOOR JOISTS ARE MANUFACTURED WITHOUT CHAMBER, THEREFORE, IN ADDITION TO COMPLIING WITH THE DEFLECTION LIMITS OF LOCAL BUILDING CODES, OTHER DEFLECTION CONSIDERATIONS SUCH AS VIBRATION, BOUNCE, CRACKING, AND AESTHETICS SHOULD BE EVALUATED BY THE PROJECT ENGINEER OR ARCHITECT.

MAXIMUM RECOMMENDED DEAD LOAD DEFLECTION IS 0.33" OR LESS.

ANCHOR LVL JOIST SECURELY TO BEARINGS OR RANGERS

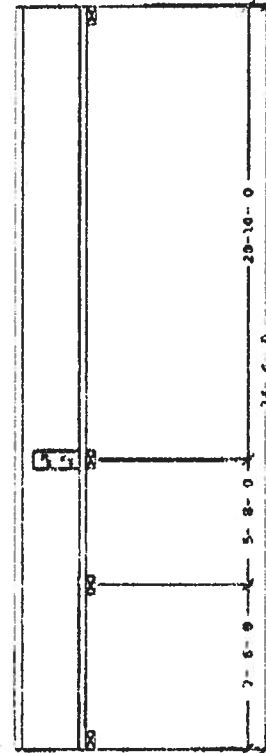
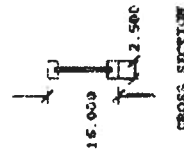
1. LP LVL DEPTH 16.000"
YES: 3'-3"
FLANGE 1.59 X 2.50

DESIGN CRITERIA	YES: 3'-3"	YES: 0.82	YES: 0.74
LIVE LOAD	=	A2	B2
DEAD LOAD	=	L5	B2
TOTAL LOAD	=	S5	B2

SPACING = 19' 20" IN C/C
DEFLECTION CRITERIA
LIVE LOAD DEF. L / 460
TOTAL LOAD DEF. L / 240

CODE COMPLIANCE:
REPORT 8
ICC-ES
E338-1305
WISCOR 615
2004-11-10
CMC
12412-R

STIFFENER SPECIFICATION



SUPPORT REACTIONS (KIPS)	WALL/BEAM	BEARING	CHAMBER
DOWN	446	3101	2778
UP/LIFT	---	439	---

MAXIMUM REACTIONS	ALLOWED
LIVE LOAD	8.31
DEAD LOAD	6.57
TOTAL LOAD	14.88

Design & Erection
The design and erection of this component shall be in accordance with the design and erection manual for the component. No modifications shall be made to the component without the approval of the manufacturer. The design and erection of this component shall be in accordance with the design and erection manual for the component.

LP LVL and CTR LP Joist Specifications
The user of this component shall be responsible for the design and erection of the component. The user shall be responsible for the design and erection of the component. The user shall be responsible for the design and erection of the component.

Software Provided By:
LP Engineered Wood Products
2100 Highway 41 West
Millsboro, DE 19966
Phone: 302.838.8870
Fax: 302.838.8871
E-mail: sales@lp.com
Website: www.lp.com
DWG #
SHEET #

NOTE: ALL INFORMATION IS DESIGNED TO SUPPORT ONLY THE VERTICAL LOADS SHOWN VERIFICATION OF LATERAL BRACING. DESIGNER IS RESPONSIBLE FOR THE DESIGN OF THE BRACING SYSTEM. THE DESIGNER IS RESPONSIBLE FOR THE DESIGN OF THE BRACING SYSTEM. THE DESIGNER IS RESPONSIBLE FOR THE DESIGN OF THE BRACING SYSTEM.		LOAD TABLE NOTE: LOADS SHOWN ARE FOR INPUT LOAD CASE (L) OTHER LOAD CASES FOR PATTERN LIVE LOADING ARE SHOWN FOR OTHER LOAD CASES (OTHERS ARE MEASURED FROM THE CENTER OF SPAN OR CANTILEVER)		1 LPI 32 PINE DEPTH 16.000" WCB: 0.175" FLANGE 1.50 X 2.50		DESIGN CRITERIA MSX: 0.72 VSI: 0.52	
DISTRIBUTION SOURCE SIZE POS/SECT LOAD FROM TO UNIFORM FLOOR LIVE TOP 53 PLF 00-00-00 17-03-08 UNIFORM FLOOR DEAD TOP 20 PLF 00-00-00 17-03-08 ROOF LIVE TOP 403 PLF 00-10-00 00-10-00 ROOF DEAD TOP 384 PLF 00-10-00 00-10-00		LOAD LDF 1.00 0.90 1.33 0.90		LIVE LOAD = 40 PSF DEAD LOAD = 15 PSF TOTAL LOAD = 55 PSF		SELECTION = 16.00 IN. C/C	
WAL-HING NOTES THIS COMPONENT DESIGN IS SPECIFICALLY FOR L-P ENGINEERED WOOD PRODUCTS. SIDE OF THIS DESIGN FOR ANYTHING OTHER THAN L-P OR L-P LAMINIS IS STRICTLY PROHIBITED. ANY MODIFICATION OF THIS DOCUMENT REQUIRES REVIEW BY A DESIGN PROFESSIONAL.		PROVIDE RESTRAINT AT CONCENTRATED LOAD TO ENSURE LATERAL STABILITY. MINIMUM BEARING SIZE ARE SUFFICIENT TO PREVENT CRUSHING OF THE L-P JOINT AS SPECIFIED IT IS THE RESPONSIBILITY OF THE PROJECT ENGINEER, ARCHITECT OR DESIGNER TO VERIFY THAT THE SUPPORT STRUCTURE FOR THIS JOINT IS CAPABLE OF SUPPORTING THE REACTION. ANCHOR LPI JOINT SECURELY TO BEARINGS OR HANGERS		DEFLECTION CRITERIA LIVE SOLO DEFL: 1 / 480 TOTAL SOLO DEFL: 1 / 240		CODE COMPLIANCE REPORT # ICC-ES EBC-1305 ETC009318 200405-W 12412-R	
MAXIMUM REACTIONS (LBS) MAXIMUM R B A R 1 M C N O X B E R DOOR 1.094 675 UP/LIFT ---		CROSS SECTION 14.000 2.500		THIS DRAWING IS NOT TO SCALE		Software Provided By LPI Engineered Wood Products 2708 Highway 421 North Wilmington, NC 28401 Local 910.762.6076 National 800.995.9105	
MAXIMUM REACTIONS (LBS) MAXIMUM R B A R 1 M C N O X B E R DOOR 1.094 675 UP/LIFT ---		CROSS SECTION 14.000 2.500		THIS DRAWING IS NOT TO SCALE		Software Provided By LPI Engineered Wood Products 2708 Highway 421 North Wilmington, NC 28401 Local 910.762.6076 National 800.995.9105	
MAXIMUM REACTIONS (LBS) MAXIMUM R B A R 1 M C N O X B E R DOOR 1.094 675 UP/LIFT ---		CROSS SECTION 14.000 2.500		THIS DRAWING IS NOT TO SCALE		Software Provided By LPI Engineered Wood Products 2708 Highway 421 North Wilmington, NC 28401 Local 910.762.6076 National 800.995.9105	

26075

Mark Disosway, P.E.

POB 868, Lake City, FL 32056, Ph (386) 754-5419

September 18, 2007

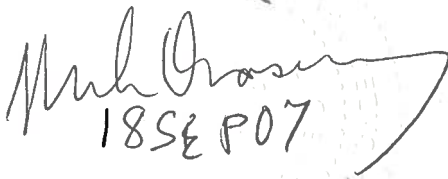
Building Department
Columbia County, Florida

Re: Framing Inspection: Nancy Ferguson Residence, 152 SW Chris Terrace, Lake City, FL 32024

Dear Building Inspector:

This letter is in reference to framing inspection issues at the above referenced house.

- The plan calls for the rafters to be attached to the ridge beam w/ a LUS210. The Framer did not install the rafter bucket.
 - Please add a 2x6 SYP#2 ledger under the rafters w/ (4) .131" x 3.25" gun nails per foot, staggered.
- The plan calls for the rafters to have a CS20 w/ (10) - 10d ridge tension strap @ each rafter. The framer did not install the ridge tension strap prior to sheathing the roof.
 - It is ok to install the ridge tension strap over top of the roof sheathing provided that full length 10d common nails are used.


18SEP07

Mark Disosway, PE
Florida Registered Professional Engineer

Mark Disosway

New Construction Subterranean Termite Soil Treatment Record

OMB Approval No. 2502-0525

This form is completed by the licensed Pest Control Company.

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. This information is mandatory and is required to obtain benefits. HUD may not collect this information, and you are not required to complete this form, unless it displays a currently valid OMB control number.

Section 24 CFR 200.926d(b)(3) requires that the sites for HUD insured structures must be free of termite hazards. This information collection requires the builder to certify that an authorized Pest Control company performed all required treatment for termites, and that the builder guarantees the treated area against infestation for one year. Builders, pest control companies, mortgage lenders, homebuyers, and HUD as a record of treatment for specific homes will use the information collected. The information is not considered confidential.

This report is submitted for informational purposes to the builder on proposed (new) construction cases when soil treatment for prevention of subterranean termite infestation is specified by the builder, architect, or required by the lender, architect, FHA, or VA.

All contracts for services are between the Pest Control Operator and builder, unless stated otherwise.

26075

Section 1: General Information (Treating Company Information)

Company Name: Aspen Pest Control, Inc.
Company Address: 321 N.W. Cole Terrace, Suite 107 City Lake City State FL Zip 32055
Company Business License No. JB102478 Company Phone No. 386-755-3811 • 352-494-5761
FHA/VA Case No. (if any) _____

Section 2: Builder Information

Company Name: Isuar Const Company Phone No. _____

Section 3: Property Information

Location of Structure(s) Treated (Street Address or Legal Description, City, State and Zip) 152 S.W. Thru's Terr
Lake City, FL

Type of Construction (More than one box may be checked) ☒ Slab ☐ Basement ☐ Crawl ☐ Other _____
Approximate Depth of Footing: Outside _____ Inside _____ Type of Fill _____

Section 4: Treatment Information

Date(s) of Treatment(s) 9-20-07
Brand Name of Product(s) Used Burn-Tor
EPA Registration No. 64405-1
Approximate Final Mix Solution % 1.25
Approximate Size of Treatment Area: Sq. ft. 1774 Linear ft. _____ Linear ft. of Masonry Voids _____
Approximate Total Gallons of Solution Applied 3
Was treatment completed on exterior? ☒ Yes ☐ No
Service Agreement Available? ☒ Yes ☐ No

Note: Some state laws require service agreements to be issued. This form does not preempt state law.

Attachments (List) _____

Comments Treated All Walls

Name of Applicator(s) Steve Brannon Certification No. (if required by State law) _____

The applicator has used a product in accordance with the product label and state requirements. All treatment materials and methods used comply with state and federal regulations.

Authorized Signature [Signature] Date 9-20-07

Warning: HUD will prosecute false claims and statements. Conviction may result in criminal and/or civil penalties. (18 U.S.C. 1001, 1010, 1012; 31 U.S.C. 3729, 3802)

Form NPCA-99-B may still be used

form HUD-NPCA-99-B (04/2003)

CERTIFICATE OF OCCUPANCY

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 24-4S-16-03103-021

Building permit No. 000026075

Use Classification SFD, UTILITY

Fire: 64.20

Permit Holder ISAAC CONSTRUCTION

Waste: 167.50

Owner of Building NANCY FERGUSON

Total: 231.70

Location: 152 SW CHRIS TERR, LAKE CITY, FL

Date: 12/11/2007

Henry Dicks

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

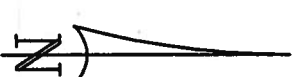


BOUNDARY SURVEY IN SECTION 24, TOWNSHIP 4 SOUTH,
RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA.

S Y M B O L L E G E N D

- 4"x4" CONCRETE MONUMENT FOUND
- 4"x4" CONCRETE MONUMENT SET
- IRON PIPE FOUND
- IRON PIN AND CAP SET
- ⊕ POWER POLE
- ▲ WATER METER
- ⊕ CENTERLINE
- * WELL
- ⊙ SATELLITE DISH
- ⊙ TELEPHONE BOX
- E— ELECTRIC LINES
- X— WIRE FENCE
- CHAIN LINK FENCE
- WOODEN FENCE

SCALE: 1" = 40'

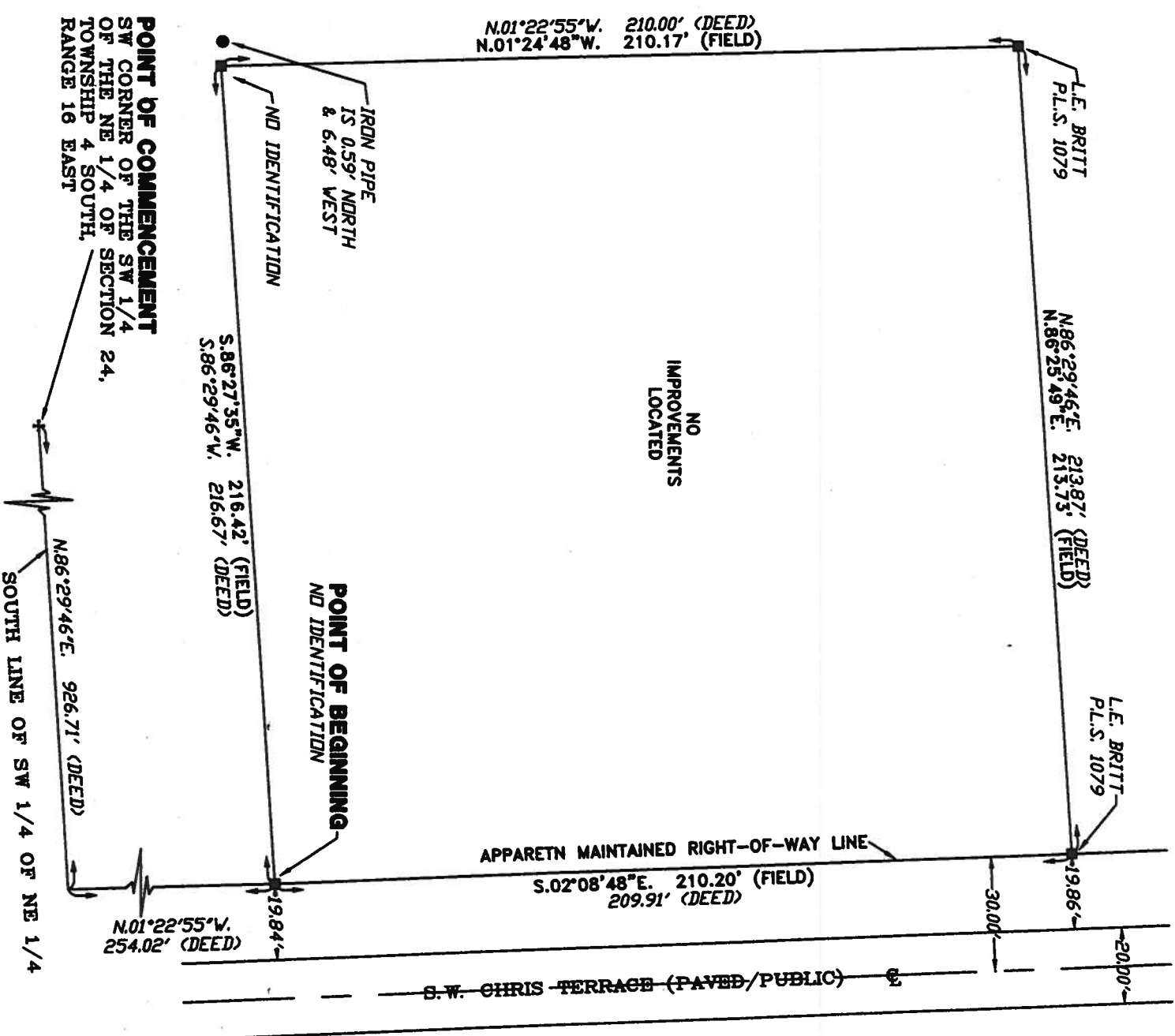


DESCRIPTION:
COMMENCE AT THE SOUTHWEST CORNER OF THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 24, TOWNSHIP 4 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA, AND RUN N86°29'46"E., ALONG THE SOUTH LINE OF SOUTHWEST 1/4 OF NORTHEAST 1/4 A DISTANCE OF 926.71 FEET, THENCE N01°22'55"W., 254.02 FEET TO THE POINT OF BEGINNING, THENCE S86°29'46"W., 216.67 FEET, THENCE N01°22'55"W., 210.00 FEET, THENCE N86°29'46"E., 213.87 FEET, THENCE S02°08'48"E., 209.91 FEET TO THE POINT OF BEGINNING, CONTAINING 1.02 ACRES, MORE OR LESS.

(AKA) LOT 204 "CANNON CREEK ACRES" SUBDIVISION UNRECORDED.

SURVEYOR'S NOTES:

1. BOUNDARY BASED ON MONUMENTATION FOUND.
2. BEARINGS ARE BASED ON DEED OF RECORDED AS HANDED THIS OFFICE.
3. THIS PARCEL IS IN ZONE "X" AND IS DETERMINED TO BE OUTSIDE THE 500 YEAR FLOOD PLAIN AS PER FLOOD RATE MAP, DATED 6 JANUARY, 1988 COMMUNITY PANEL NUMBER 120070 0175 B. HOWEVER, THE FLOOD INSURANCE RATE MAPS ARE SUBJECT TO CHANGE.
4. THE IMPROVEMENTS, IF ANY, INDICATED ON THIS SURVEY DRAWING ARE AS LOCATED ON DATE OF FIELD SURVEY AS SHOWN HEREON.
5. IF THEY EXIST, NO UNDERGROUND ENCROACHMENTS AND/OR UTILITIES WERE LOCATED FOR THIS SURVEY EXCEPT AS SHOWN HEREON.
6. THIS SURVEY WAS COMPLETED WITHOUT THE BENEFIT OF A TITLE COMMITMENT OR A TITLE POLICY.



CERTIFIED TO:

NANCY A. FERGUSON
ABSTRACT & TITLE SERVICES, INC.
CHICAGO TITLE INSURANCE COMPANY
FIRST FEDERAL SAVINGS BANK OF FLORIDA

FIELD BOOK 297 PAGE(S) 34

SURVEYOR'S CERTIFICATION

I HEREBY CERTIFY THAT THIS SURVEY WAS MADE UNDER MY RESPONSIBLE CHARGE AND MEETS THE MINIMUM TECHNICAL STANDARDS AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 61G17-6, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

05/25/07
FIELD SURVEY DATE
05/30/07
DRAWING DATE

NOTE: UNLESS IT BEARS THE SIGNATURE AND THE ORIGINAL, RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER, THIS DRAWING, SKETCH, PLAN OR MAP IS FOR INFORMATIONAL PURPOSES ONLY AND IS NOT VALID.



BRITT
& ASSOCIATES, INC.

LAND SURVEYORS AND MAPPERS
830 WEST DUVAL STREET LAKE CITY, FLORIDA 32055
(386)752-7163 FAX (386)752-5573

WORK ORDER # L-18447