

DATE 06/23/2004

Columbia County Building Permit

This Permit Expires One Year From the Date of Issue

PERMIT

000021995

APPLICANT BRYAN ZECHER PHONE 752-8653
ADDRESS P.O. BOX 815 LAKE CITY FL 32056
OWNER WILLIAM & BETTY DENSON PHONE _____
ADDRESS 834 NW ZACK DR. LAKE CITY FL 32055
CONTRACTOR BRYAN ZECHER PHONE _____
LOCATION OF PROPERTY 90W, TR ON BROWN ROAD, TL ON WINDING PLACE, TL ON EMERALD LAKES DR., CORNER OF EMERALD LAKES DR., AND ZACK DRIVE
TYPE DEVELOPMENT SFD, UTILITY ESTIMATED COST OF CONSTRUCTION 79650.00
HEATED FLOOR AREA 1593.00 TOTAL AREA 2111.00 HEIGHT .00 STORIES 1
FOUNDATION CONC WALLS FRAMED ROOF PITCH 6/12 FLOOR SLAB
LAND USE & ZONING RSF-2 MAX. HEIGHT 22
Minimum Set Back Requirements: STREET-FRONT 25.00 REAR 15.00 SIDE 10.00
NO. EX.D.U. 0 FLOOD ZONE X PP DEVELOPMENT PERMIT NO. _____

PARCEL ID 28-3S-16-02372-629 SUBDIVISION ARBOR GREEN @ EMERALD LAKES
LOT 29 BLOCK _____ PHASE 2 UNIT _____ TOTAL ACRES .50

000000337 N CBC054575
Culvert Permit No. Culvert Waiver Contractor's License Number JK
EXISTING 04-0624-N BK
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 2793

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power _____ Foundation _____ Monolithic _____
date/app. by _____ date/app. by _____ date/app. by _____
Under slab rough-in plumbing _____ Slab _____ Sheathing/Nailing _____
date/app. by _____ date/app. by _____ date/app. by _____
Framing _____ Rough-in plumbing above slab and below wood floor _____
date/app. by _____ date/app. by _____
Electrical rough-in _____ Heat & Air Duct _____ Peri. beam (Lintel) _____
date/app. by _____ date/app. by _____ date/app. by _____
Permanent power _____ C.O. Final _____ Culvert _____
date/app. by _____ date/app. by _____ date/app. by _____
M/H tie downs, blocking, electricity and plumbing _____ Pool _____
date/app. by _____ date/app. by _____
Reconnection _____ Pump pole _____ Utility Pole _____
date/app. by _____ date/app. by _____ date/app. by _____
M/H Pole _____ Travel Trailer _____ Re-roof _____
date/app. by _____ date/app. by _____ date/app. by _____

BUILDING PERMIT FEE \$ 400.00 CERTIFICATION FEE \$ 10.56 SURCHARGE FEE \$ 10.56
MISC. FEES \$.00 ZONING CERT. FEE \$ 50.00 FIRE FEE \$ _____ WASTE FEE \$ _____
FLOOD ZONE DEVELOPMENT FEE \$ _____ CULVERT FEE \$ 25.00 TOTAL FEE 496.12

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.

Columbia County Building Permit Application

ZCCID
JLW 6-4-04-

For Office Use Only	Application #	0406-20	Permit #	337/21995			
Application Approved by - Zoning Official		BZK	Date	15.06.04			
Plans Examiner			Date				
Flood Zone	X per Plat	Development Permit	N/A	Zoning	RSF-2	Land Use Plan Map Category	Res Low dens
Comments							
Joussis Backlog, CTN, Plat requires 1 foot above centerline of adjacent Road							

Applicants Name	Bryan Zeeher	Phone	752 8653
Address	PO Box 815, LC, FL 32056		
Owners Name	Denson, William & Betty	Phone	
911 Address	834 NW Zack Dr, Lake City, FL 32055		
Contractors Name	Bryan Zeeher Const, Inc	Phone	752 8653
Address	PO Box 815, LC, FL 32056		
Fee Simple Owner Name & Address	—		
Bonding Co. Name & Address	—		
Architect/Engineer Name & Address	Teena Butts / Mark Disomay		
Mortgage Lenders Name & Address	None		

Property ID Number	28-35-16-62372-629	Estimated Cost of Construction	\$104,000
Subdivision Name	Arbor Greene @ Em Lakes	Lot	29
		Block	
		Unit	2
		Phase	2
Driving Directions	US 90 to Brown Rd, T/R to Winding Place - T/L to shop sign, T/L on Emerald Lake drive, R/L on corner of Em Lakes Dr + Zack Rd -		
Type of Construction	Frame - New	Number of Existing Dwellings on Property	0
Total Acreage	Lot Size	1/2 acre	Do you need a
			Culvert Permit or Culvert Waiver or Have an Existing Drive
Actual Distance of Structure from Property Lines - Front	30	Side	30
		Side	15
		Rear	100'
Total Building Height	22	Number of Stories	1
		Heated Floor Area	1593
		Roof Pitch	6/12

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

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Owner Builder or Agent (Including Contractor)

STATE OF FLORIDA
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me
this _____ day of _____ 20____.
Personally known _____ or Produced Identification _____

Contractor Signature
Contractors License Number CBC054575
Competency Card Number _____

NOTARY STAMP/SEAL

Notary Signature

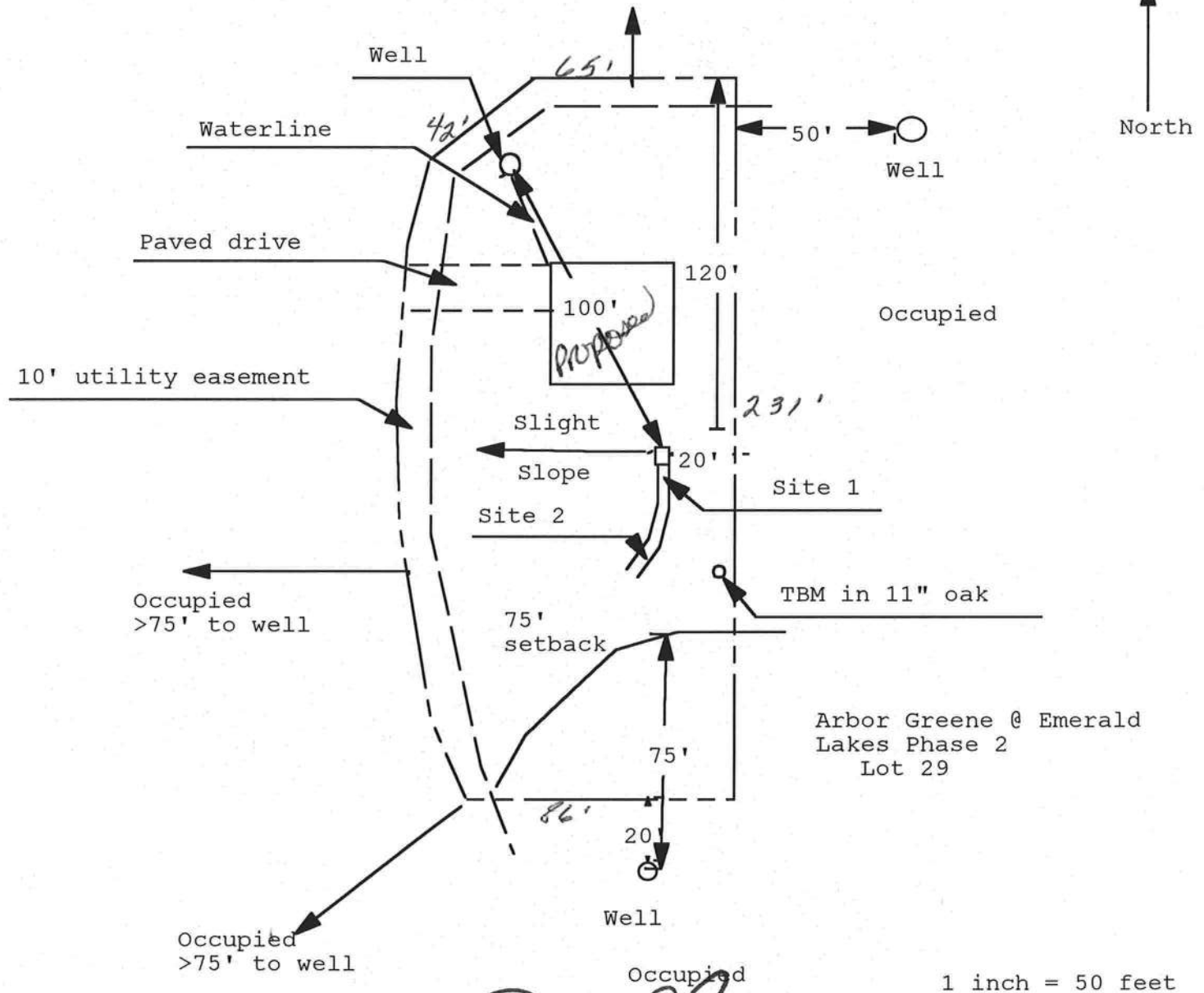
Application for Onsite Sewage Disposal System Construction Permit. Part II Site Plan

Permit Application Number: 04-0624N

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

DENSON/CR 03-2117

Vacant across road



1 inch = 50 feet

Site Plan Submitted By Paul Lloyd Date 6/2/04
 Plan Approved Not Approved Date 6/2/04
 By Paul Lloyd Sakab Buck CPHU

Notes: _____

**NOTICE OF COMMENCEMENT FORM
COLUMBIA COUNTY, FLORIDA**

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.

Tax Parcel ID Number 28-35-16-02372-629

1. Description of property: (legal description of the property and street address or 911 address)

lot 29, Arbor Greene

Inst: 2004013281 Date: 06/08/2004 Time: 13:59

B DC, P. DeWitt Cason, Columbia County B: 1017 P: 2243

2. General description of improvement: New Home

3. Owner Name & Address William & Betty Jensen

2468 Captains Kid Sw Supply, NC, 28162 Interest in Property fee simple

4. Name & Address of Fee Simple Owner (if other than owner): /

5. Contractor Name Bryan Zecher Construction, Inc Phone Number 386-752-8653

Address PO Box 815 Lake City, FL 32056

6. Surety Holders Name / Phone Number /

Address /

Amount of Bond /

7. Lender Name / Phone Number /

Address /

8. Persons within the State of Florida designated by the Owner upon whom notices or other documents may be served as provided by section 718.13 (1)(a) 7; Florida Statutes:

Name / Phone Number /

Address /

9. In addition to himself/herself the owner designates / of /

/ to receive a copy of the Lienor's Notice as provided in Section 713.13 (1) -

(a) 7. Phone Number of the designee /

10. Expiration date of the Notice of Commencement (the expiration date is 1 (one) year from the date of recording, (Unless a different date is specified) /

NOTICE AS PER CHAPTER 713, Florida Statutes:

The owner must sign the notice of commencement and no one else may be permitted to sign in his/her stead.

William A. Jensen
Betty C. Jensen
Signature of Owner

Sworn to (or affirmed) and subscribed before 2
day of June, 2004

NOTARY STAMP/SEAL

Elizabeth A. Egan
Signature of Notary

3/31/07 Epp

NOTICE OF COMMENCEMENT FORM
COLUMBIA COUNTY, FLORIDA

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.

Tax Parcel ID Number 2B-35-16-02372-629

1. Description of property: (legal description of the property and street address or §11 address)
lot 29, Arbor Greene
2. General description of improvement: New Home
3. Owner Name & Address William & Betty Denson
2468 Captain Kid Sw Supply, NC, 25162 Interest in Property fee simple
4. Name & Address of Fee Simple Owner (if other than owner): /
5. Contractor Name Bryan Zecher Construction, Inc Phone Number 386-752-8653
Address PO Box 815 Lake City, FL 32056
6. Surety Holders Name / Phone Number /
Address /
Amount of Bond /
7. Lender Name / Phone Number /
Address /
8. Persons within the State of Florida designated by the Owner upon whom notices or other documents may be served as provided by section 713.13 (1)(a) 7; Florida Statutes:
Name / Phone Number /
Address /
9. In addition to himself/herself the owner designates / of /
/ to receive a copy of the Lienor's Notice as provided in Section 713.13 (1) -
(a) 7. Phone Number of the designee /
10. Expiration date of the Notice of Commencement (the expiration date is 1 (one) year from the date of recording, (Unless a different date is specified) /

NOTICE AS PER CHAPTER 713, Florida Statutes:

The owner must sign the notice of commencement and no one else may be permitted to sign in his/her stead.

Betty C. Denson
Signature of Owner

Sworn to (or affirmed) and subscribed before 2
day of June, 2004

NOTARY STAMP/SEAL

Elizabeth A. Kiser
Signature of Notary
3/31/07 Epp

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs Residential Whole Building Performance Method A

Project Name:	405311DensonRes.	Builder:	Bryan Zecher
Address:	Lot: 29, Sub: Emerald lakes, Plat:	Permitting Office:	
City, State:	Lake City, FL	Permit Number:	21995
Owner:	William & Betty Denson	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: 10.00
4. Number of Bedrooms	3	b. N/A	
5. Is this a worst case?	No	c. N/A	
6. Conditioned floor area (ft²)	1593 ft²	13. Heating systems	
7. Glass area & type	Single Pane Double Pane	a. Electric Heat Pump	Cap: 32.0 kBtu/hr
a. Clear glass, default U-factor	0.0 ft² 232.0 ft²		HSPF: 6.80
b. Default tint, default U-factor	0.0 ft² 0.0 ft²	b. N/A	
c. Labeled U-factor or SHGC	0.0 ft² 0.0 ft²	c. N/A	
8. Floor types		14. Hot water systems	
a. Slab-On-Grade Edge Insulation	R=0.0, 178.0(p) ft	a. Electric Resistance	Cap: 40.0 gallons
b. N/A			EF: 0.89
c. N/A		b. N/A	
9. Wall types		c. Conservation credits	
a. Frame, Wood, Exterior	R=13.0, 220.0 ft²	(HR-Heat recovery, Solar	
b. Frame, Wood, Adjacent	R=13.0, 208.0 ft²	DHP-Dedicated heat pump)	
c. Face Brick, Wood, Exterior	R=13.0, 684.0 ft²	15. HVAC credits	
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, 1753.0 ft²	MZ-C-Multizone cooling,	
b. N/A		MZ-H-Multizone heating)	
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 170.0 ft		
b. N/A			

Glass/Floor Area: 0.15

Total as-built points: 24484

Total base points: 24594

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: 6/1/04

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

OWNER/AGENT: [Signature]

DATE: 6/3/04

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: 29, Sub: Emerald lakes, Plat: , Lake City, FL,

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES											
.18 X Conditioned X BSPM = Points Floor Area				Type/SC	Overhang		Area X SPM X SOF = Points				
				Ornt	Len	Hgt					
.18	1593.0	20.04	5746.3	Double, Clear	E	1.5	5.5	20.0	42.06	0.90	754.0
				Double, Clear	E	1.5	5.5	60.0	42.06	0.90	2261.9
				Double, Clear	S	1.5	5.5	60.0	35.87	0.83	1790.9
				Double, Clear	S	1.5	3.5	6.0	35.87	0.70	151.4
				Double, Clear	W	4.5	7.5	28.0	38.52	0.67	723.8
				Double, Clear	NW	5.0	7.5	21.0	25.97	0.72	391.4
				Double, Clear	W	10.5	2.0	3.0	38.52	0.37	43.3
				Double, Clear	W	1.5	5.5	30.0	38.52	0.90	1036.6
				Double, Clear	N	1.5	1.5	4.0	19.20	0.71	54.6
				As-Built Total:				232.0		7207.8	
WALL TYPES Area X BSPM = Points				Type	R-Value		Area X SPM = Points				
Adjacent	208.0	0.70	145.6	Frame, Wood, Exterior	13.0		220.0	1.50		330.0	
Exterior	904.0	1.70	1536.8	Frame, Wood, Adjacent	13.0		208.0	0.60		124.8	
				Face Brick, Wood, Exterior	13.0		684.0	0.35		239.4	
Base Total:		1112.0	1682.4	As-Built Total:				1112.0		694.2	
DOOR TYPES Area X BSPM = Points				Type			Area X SPM = Points				
Adjacent	19.0	2.40	45.6	Exterior Insulated			40.0	4.10		164.0	
Exterior	40.0	6.10	244.0	Adjacent Insulated			19.0	1.60		30.4	
Base Total:		59.0	289.6	As-Built Total:				59.0		194.4	
CEILING TYPES Area X BSPM = Points				Type	R-Value		Area X SPM X SCM = Points				
Under Attic	1593.0	1.73	2755.9	Under Attic	30.0		1753.0	1.73 X 1.00		3032.7	
Base Total:		1593.0	2755.9	As-Built Total:				1753.0		3032.7	
FLOOR TYPES Area X BSPM = Points				Type	R-Value		Area X SPM = Points				
Slab	178.0(p)	-37.0	-6586.0	Slab-On-Grade Edge Insulation	0.0		178.0(p)	-41.20		-7333.6	
Raised	0.0	0.00	0.0								
Base Total:			-6586.0	As-Built Total:				178.0		-7333.6	
INFILTRATION Area X BSPM = Points								Area X SPM = Points			
	1593.0	10.21	16264.5					1593.0		10.21 16264.5	

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 29, Sub: Emerald lakes, Plat: , Lake City, FL,

PERMIT #:

BASE				AS-BUILT							
Summer Base Points: 20152.7				Summer As-Built Points: 20060.0							
Total Summer Points	X	System Multiplier	= Cooling Points	Total Component	X	Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points	
20152.7		0.4266	8597.1	20060.0		1.000	(1.090 x 1.147 x 0.91)	0.341	1.000	7789.3	
				20060.0		1.00	1.138	0.341	1.000	7789.3	

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 29, Sub: Emerald lakes, Plat: , Lake City, 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	1593.0	12.74	3653.1	Double, Clear	E	1.5	5.5	20.0	18.79	1.04	391.4
				Double, Clear	E	1.5	5.5	60.0	18.79	1.04	1174.2
				Double, Clear	S	1.5	5.5	60.0	13.30	1.15	915.2
				Double, Clear	S	1.5	3.5	6.0	13.30	1.47	117.0
				Double, Clear	W	4.5	7.5	28.0	20.73	1.11	642.1
				Double, Clear	NW	5.0	7.5	21.0	24.30	1.02	519.5
				Double, Clear	W	10.5	2.0	3.0	20.73	1.24	77.0
				Double, Clear	W	1.5	5.5	30.0	20.73	1.03	639.3
				Double, Clear	N	1.5	1.5	4.0	24.58	1.02	100.1
				As-Built Total:				232.0	4575.8		
WALL TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Adjacent	208.0	3.60	748.8	Frame, Wood, Exterior	13.0		220.0	3.40		748.0	
Exterior	904.0	3.70	3344.8	Frame, Wood, Adjacent	13.0		208.0	3.30		686.4	
				Face Brick, Wood, Exterior	13.0		684.0	3.17		2171.7	
Base Total:	1112.0		4093.6	As-Built Total:				1112.0	3606.1		
DOOR TYPES Area X BWPM = Points				Type			Area X WPM = Points				
Adjacent	19.0	11.50	218.5	Exterior Insulated			40.0	8.40		336.0	
Exterior	40.0	12.30	492.0	Adjacent Insulated			19.0	8.00		152.0	
Base Total:	59.0		710.5	As-Built Total:				59.0	488.0		
CEILING TYPES Area X BWPM = Points				Type	R-Value		Area X WPM X WCM = Points				
Under Attic	1593.0	2.05	3265.6	Under Attic	30.0		1753.0	2.05 X 1.00		3593.6	
Base Total:	1593.0		3265.6	As-Built Total:				1753.0	3593.6		
FLOOR TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Slab	178.0(p)	8.9	1584.2	Slab-On-Grade Edge Insulation	0.0		178.0(p)	18.80		3346.4	
Raised	0.0	0.00	0.0								
Base Total:			1584.2	As-Built Total:				178.0	3346.4		
INFILTRATION Area X BWPM = Points				Area X WPM = Points							
	1593.0	-0.59	-939.9	1593.0 -0.59 -939.9							

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 29, Sub: Emerald lakes, Plat: , Lake City, FL,

PERMIT #:

BASE				AS-BUILT									
Winter Base Points:		12367.1		Winter As-Built Points:					14670.1				
Total Winter Points	X	System Multiplier	= Heating Points	Total Component	X	Cap Ratio	X	Duct Multiplier (DM x DSM x AHU)	X	System Multiplier	X	Credit Multiplier	= Heating Points
12367.1		0.6274	7759.1	14670.1 14670.1		1.000 1.00		(1.069 x 1.169 x 0.93) 1.162		0.501 0.501		1.000 1.000	8549.8 8549.8

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 29, Sub: Emerald lakes, Plat: , Lake City, FL,

PERMIT #:

BASE				AS-BUILT					
WATER HEATING									
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X Tank Ratio	Multiplier X Credit	= Total Multiplier
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
8597		7759	8238 24594	7789		8550	8145 24484

PASS



Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 29, Sub: Emerald lakes, Plat: , Lake City, 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.	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 82.7

The higher the score, the more efficient the home.

William & Betty Denson, Lot: 29, Sub: Emerald lakes, Plat: , Lake City, 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: 10.00
4. Number of Bedrooms	3	___	b. N/A	___
5. Is this a worst case?	No	___	c. N/A	___
6. Conditioned floor area (ft ²)	1593 ft ²	___		___
7. Glass area & type	Single Pane	Double Pane		___
a. Clear glass, default U-factor	0.0 ft ²	232.0 ft ²	13. Heating systems	
b. Default tint, default U-factor	0.0 ft ²	0.0 ft ²	a. Electric Heat Pump	Cap: 32.0 kBtu/hr
c. Labeled U-factor or SHGC	0.0 ft ²	0.0 ft ²		HSPF: 6.80
8. Floor types			b. N/A	___
a. Slab-On-Grade Edge Insulation	R=0.0, 178.0(p) ft	___	c. N/A	___
b. N/A	___	___		___
c. N/A	___	___	14. Hot water systems	
9. Wall types			a. Electric Resistance	Cap: 40.0 gallons
a. Frame, Wood, Exterior	R=13.0, 220.0 ft ²	___		EF: 0.89
b. Frame, Wood, Adjacent	R=13.0, 208.0 ft ²	___	b. N/A	___
c. Face Brick, Wood, Exterior	R=13.0, 684.0 ft ²	___	c. Conservation credits	___
d. N/A	___	___	(HR-Heat recovery, Solar	___
e. N/A	___	___	DHP-Dedicated heat pump)	___
10. Ceiling types			15. HVAC credits	___
a. Under Attic	R=30.0, 1753.0 ft ²	___	(CF-Ceiling fan, CV-Cross ventilation,	___
b. N/A	___	___	HF-Whole house fan,	___
c. N/A	___	___	PT-Programmable Thermostat,	___
11. Ducts			MZ-C-Multizone cooling,	___
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 170.0 ft	___	MZ-H-Multizone heating)	___
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: [Signature]

Date: 6/3/04

Address of New Home: 834 NW Zack Dr

City/FL Zip: Lake City, FL 32055



*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: FLR2PB v3.4)

Residential System Sizing Calculation

Summary

William & Betty Denson

Project Title:
405311DensonRes.

Class 3 Rating
Registration No. 0
Climate: North

Lake City, FL

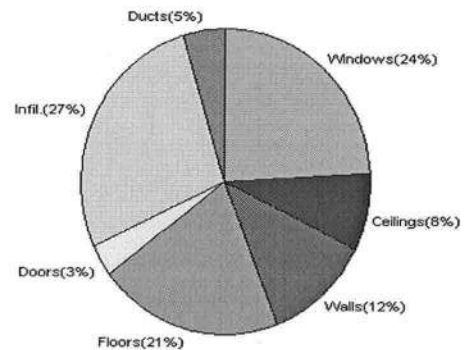
6/1/2004

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	27111 Btuh	Total cooling load calculation	26964 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	118.0 32000	Sensible (SHR = 0.75)	117.5 24000
Heat Pump + Auxiliary(0.0kW)	118.0 32000	Latent	122.2 8000
		Total (Electric Heat Pump)	118.7 32000

WINTER CALCULATIONS

Winter Heating Load (for 1593 sqft)

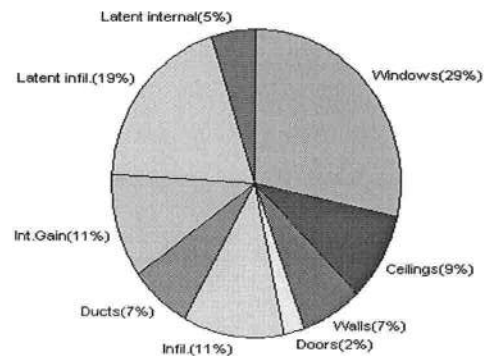
Load component	Load
Window total 232 sqft	6566 Btuh
Wall total 1112 sqft	3135 Btuh
Door total 59 sqft	912 Btuh
Ceiling total 1753 sqft	2279 Btuh
Floor total 178 ft	5625 Btuh
Infiltration 170 cfm	7304 Btuh
Subtotal	25820 Btuh
Duct loss	1291 Btuh
TOTAL HEAT LOSS	27111 Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 1593 sqft)

Load component	Load
Window total 232 sqft	7735 Btuh
Wall total 1112 sqft	1789 Btuh
Door total 59 sqft	598 Btuh
Ceiling total 1753 sqft	2489 Btuh
Floor total	0 Btuh
Infiltration 149 cfm	2950 Btuh
Internal gain	3000 Btuh
Subtotal(sensible)	18562 Btuh
Duct gain	1856 Btuh
Total sensible gain	20418 Btuh
Latent gain(infiltration)	5167 Btuh
Latent gain(internal)	1380 Btuh
Total latent gain	6547 Btuh
TOTAL HEAT GAIN	26964 Btuh



EnergyGauge® System Sizing based on ACCA Manual J.

PREPARED BY: *[Signature]*

DATE: 6/01/04

System Sizing Calculations - Winter

Residential Load - Component Details

William & Betty Denson

Project Title:
405311DensonRes.

Class 3 Rating
Registration No. 0
Climate: North

Lake City, FL

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

6/1/2004

Window	Panes/SHGC/Frame/U	Orientation	Area X	HTM=	Load
1	2, Clear, Metal, DEF	N	20.0	28.3	566 Btuh
2	2, Clear, Metal, DEF	N	60.0	28.3	1698 Btuh
3	2, Clear, Metal, DEF	E	60.0	28.3	1698 Btuh
4	2, Clear, Metal, DEF	E	6.0	28.3	170 Btuh
5	2, Clear, Metal, DEF	S	28.0	28.3	792 Btuh
6	2, Clear, Metal, DEF	SW	21.0	28.3	594 Btuh
7	2, Clear, Metal, DEF	S	3.0	28.3	85 Btuh
8	2, Clear, Metal, DEF	S	30.0	28.3	849 Btuh
9	2, Clear, Metal, DEF	W	4.0	28.3	113 Btuh
Window Total			232		6566 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Exterior	13.0	220	3.1	682 Btuh
2	Frame - Adjacent	13.0	208	1.6	333 Btuh
3	Frame - Exterior	13.0	684	3.1	2120 Btuh
Wall Total			1112		3135 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exter		40	18.3	733 Btuh
2	Insulated - Adjac		19	9.4	179 Btuh
Door Total			59		912 Btuh
Ceilings	Type	R-Value	Area X	HTM=	Load
1	Under Attic	30.0	1753	1.3	2279 Btuh
Ceiling Total			1753		2279 Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab-On-Grade Edge Insul	0	178.0 ft(p)	31.6	5625 Btuh
Floor Total			178		5625 Btuh
Infiltration	Type	ACH X	Building Volume	CFM=	Load
	Natural	0.80	12744(sqft)	170	7304 Btuh
	Mechanical			0	0 Btuh
Infiltration Total				170	7304 Btuh

Totals for Heating	Subtotal	25820 Btuh
	Duct Loss(using duct multiplier of 0.05)	1291 Btuh
	Total Btuh Loss	27111 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

William & Betty Denson

Project Title:
405311DensonRes.

Class 3 Rating
Registration No. 0
Climate: North

Lake City, FL

Reference City: Gainesville (Defaults)

Summer Temperature Difference: 18.0 F

6/1/2004

Window	Type	Overhang		Window Area(sqft)			HTM		Load		
	Panes/SHGC/U/InSh/ExSh Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded			
1	2, Clear, DEF, N, N	N	1.5	5.5	20.0	0.0	20.0	22	22	440	Btuh
2	2, Clear, DEF, N, N	N	1.5	5.5	60.0	0.0	60.0	22	22	1320	Btuh
3	2, Clear, DEF, N, N	E	1.5	5.5	60.0	13.6	46.4	22	72	3641	Btuh
4	2, Clear, DEF, N, N	E	1.5	3.5	6.0	0.5	5.5	22	72	408	Btuh
5	2, Clear, DEF, N, N	S	4.5	7.5	28.0	28.0	0.0	22	37	616	Btuh
6	2, Clear, DEF, N, N	SW	5	7.5	21.0	21.0	0.0	22	62	462	Btuh
7	2, Clear, DEF, N, N	S	10.5	2	3.0	3.0	0.0	22	37	66	Btuh
8	2, Clear, DEF, N, N	S	1.5	5.5	30.0	30.0	0.0	22	37	660	Btuh
9	2, Clear, DEF, N, N	W	1.5	1.5	4.0	3.3	0.7	22	72	122	Btuh
	Window Total				232					7735 Btuh	
Walls	Type	R-Value			Area		HTM		Load		
1	Frame - Exterior	13.0			220.0		1.7		383 Btuh		
2	Frame - Adjacent	13.0			208.0		1.0		216 Btuh		
3	Frame - Exterior	13.0			684.0		1.7		1190 Btuh		
	Wall Total				1112.0				1789 Btuh		
Doors	Type	R-Value			Area		HTM		Load		
1	Insulated - Exter				40.0		10.1		406 Btuh		
2	Insulated - Adjac				19.0		10.1		193 Btuh		
	Door Total				59.0				598 Btuh		
Ceilings	Type/Color	R-Value			Area		HTM		Load		
1	Under Attic/Dark	30.0			1753.0		1.4		2489 Btuh		
	Ceiling Total				1753.0				2489 Btuh		
Floors	Type	R-Value			Size		HTM		Load		
1	Slab-On-Grade Edge Insulation	0.0			178.0 ft(p)		0.0		0 Btuh		
	Floor Total				178.0				0 Btuh		
Infiltration	Type	ACH			Volume		CFM=		Load		
	Natural	0.70			12744		149.0		2950 Btuh		
	Mechanical						0		0 Btuh		
	Infiltration Total						149		2950 Btuh		
Internal gain	Occupants			Btuh/occupant			Appliance		Load		
	6			X 300 +			1200		3000 Btuh		

Manual J Summer Calculations

Residential Load - Component Details (continued)

William & Betty Denson

Project Title:
405311DensonRes.

Class 3 Rating
Registration No. 0
Climate: North

Lake City, FL

6/1/2004

Totals for Cooling	Subtotal	18562 Btuh
	Duct gain(using duct multiplier of 0.10)	1856 Btuh
	Total sensible gain	20418 Btuh
	Latent infiltration gain (for 51 gr. humidity difference)	5167 Btuh
	Latent occupant gain (6 people @ 230 Btuh per person)	1380 Btuh
	Latent other gain	0 Btuh
	TOTAL GAIN	26964 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)

2004

Columbia County Building Department Culvert Permit

Culvert Permit No.
000000337

DATE 06/23/2004 PARCEL ID # 28-3S-16-02372-629
APPLICANT BRYAN ZECHER PHONE 752-8653
ADDRESS P.O. BOX 815 LAKE CITY FL 32056
OWNER WILLIAM & BETTY DENSON PHONE _____
ADDRESS 834 NW ZACK DRIVE LAKE CITY FL 32055
CONTRACTOR BRYAN ZECHER PHONE 752-8653
LOCATION OF PROPERTY 90W, TR ON BROWN RD, TL ON WINDING PLACE, TL ON EMERALD LAKES DR,
CORNER OF EMERALD LAKES DR AND ZACK ROAD

SUBDIVISION/LOT/BLOCK/PHASE/UNIT AR GREEN @ EM LAKES 29

SIGNATURE _____

INSTALLATION REQUIREMENTS



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

INSTALLATION NOTE: Turnouts will be required as follows:

- a) a majority of the current and existing driveway turnouts are paved, or;
- b) the driveway to be served will be paved or formed with concrete.

Turnouts shall be concrete or paved a minimum of 12 feet wide or the width of the concrete or paved driveway, whichever is greater. The width shall conform to the current and existing paved or concreted turnouts.



Culvert installation shall conform to the approved site plan standards.



Department of Transportation Permit installation approved standards.



Other _____

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

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

Amount Paid 25.00



Notice of Treatment

10947

Applicator Florida Pest Control & Chemical Co.

Address 536 SE Baya

City Lake City Phone 752-1703

Site Location Subdivision Emerald Lks

Lot# 29 Block# Permit# 21995

Address 834 NW Zack Dr

AREAS TREATED

Area Treated	Date	Time	Gal.	Print Technician's Name
Main Body	7-17-84	710	375	Travis
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

Applicator - White • Permit File - Canary • Permit Holder - Pink

©

COLUMBIA COUNTY OFFICE OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

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

Parcel Number 28-3S-16-02372-629

Building permit No. 000021995

Use Classification SFD, UTILITY

Fire: 56.70

Permit Holder BRYAN ZECHER

Waste: 122.50

Owner of Building WILLIAM & BETTY DENSON

Total: 179.20

Location: 834 NW ZACK DRIVE, LAKE CITY

Date: 12/03/2004

Harry Dickel

Building Inspector



POST IN A CONSPICUOUS PLACE
(Business Places Only)