

DATE 07/14/2004

# Columbia County Building Permit

PERMIT

This Permit Expires One Year From the Date of Issue

000022078

APPLICANT BRYAN ZECHER

PHONE 752-8653

ADDRESS P.O. BOX 815

LAKE CITY

FL 32056

OWNER ARTHUR & PATRICIA KIRSH

PHONE

ADDRESS 593 NW ZACK DRIVE

LAKE CITY

FL 32055

CONTRACTOR BRYAN ZECHER

PHONE

LOCATION OF PROPERTY 90W, TR ON BROWN RD., TL ON EMERALD LAKES DR., TL ON ZACK RD., HOME ON RIGHT

TYPE DEVELOPMENT SFD,UTILITY ESTIMATED COST OF CONSTRUCTION 101200.00

HEATED FLOOR AREA 2024.00 TOTAL AREA 2828.00 HEIGHT .00 STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 6/1 FLOOR SLAB

LAND USE & ZONING RSF-2 MAX. HEIGHT 18

Minimum Set Back Requirments: 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-16-02372-502 SUBDIVISION ARBOR GREENE AT EMERALD LAKES

LOT 2 BLOCK PHASE UNIT TOTAL ACRES .50

000000355 N CBC054575

Culvert Permit No. Culvert Waiver Contractor's License Number

Applicant/Owner/Contractor

PERMIT 04-0650-N BK

RJ

Y

Driveway Connection Septic Tank Number

LU & Zoning checked by

Approved for Issuance

New Resident

COMMENTS: FINISHED FLOOR ELEVATION SHALL BE AT LEAST 1 FT ABOVE CENTERLINE OF ADJACENT ROADWAY PER PLAT, NOC ON FILE

Check # or Cash 2136

## 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 \$ 510.00 CERTIFICATION FEE \$ 14.14 SURCHARGE FEE \$ 14.14

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

FLOOD ZONE DEVELOPMENT FEE \$ CULVERT FEE \$ 25.00 TOTAL FEE 613.28

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

For Office Use Only 6-16-04 LH Application # 0406-47 Permit # 355/22078  
 Application Approved by - Zoning Official BK Date 09.07.04 Plans Examiner \_\_\_\_\_ Date \_\_\_\_\_  
 Flood Zone X per plat Development Permit N/A Zoning RSF-2 Land Use Plan Map Category RES. Low DE  
 Comments Finish Floor Elevation shall be at least 1 foot above centerline of adjacent Roadway per plat

Applicants Name Bryan Zacher Phone 752 8653  
 Address PO Box 815 Lake City, FL 32056  
 Owners Name Arthur + Patricia Kirsch Phone \_\_\_\_\_  
 911 Address 593 NW Zack Dr Lake City, FL 32055  
 Contractors Name Bryan Zacher Const. Inc Phone 752-8653  
 Address 465 NW Orange St Lake City, FL 32055  
 Fee Simple Owner Name & Address \_\_\_\_\_  
 Bonding Co. Name & Address \_\_\_\_\_  
 Architect/Engineer Name & Address Teena Ruffo / Mark Djourney  
 Mortgage Lenders Name & Address \_\_\_\_\_

Property ID Number 28-35-16-02372-502 Estimated Cost of Construction \$149,500-  
 Subdivision Name Emerald Lakes, lot 2 Arby Green at Lot 2 Block \_\_\_\_\_ Unit \_\_\_\_\_ Phase \_\_\_\_\_  
 Driving Directions Brown Rd to Em Lks Drive, T/L to Zack Rd, T/R - home on right - lot 2 -

Type of Construction new home Number of Existing Dwellings on Property 0  
 Total Acreage 1/2 acre Lot Size 1/2 acre Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Dri  
 Actual Distance of Structure from Property Lines - Front 35 Side 25 Side 25 Rear 100  
 Total Building Height 8' Number of Stories 1 Heated Floor Area 2024 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

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

Owner Builder or Agent (Including Contractor)

STATE OF FLORIDA  
 COUNTY OF COLUMBIA

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

[Signature]  
 Contractor Signature  
 Contractors License Number LC054575  
 Competency Card Number \_\_\_\_\_

NOTARY STAMP/SEAL

Notary Signature \_\_\_\_\_

THIS INSTRUMENT WAS PREPARED BY:

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

Inst:2004013179 Date:06/07/2004 Time:15:01

DC,P.DeWitt Cason,Columbia County B:1017 P:1948

PERMIT NO. \_\_\_\_\_

TAX FOLIO NO.: R02372-502

NOTICE OF COMMENCEMENT

STATE OF FLORIDA  
COUNTY OF COLUMBIA

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

1. Description of property:

Lot 2, ARBOR GREENE AT EMERALD LAKES, a subdivision according to the plat thereof recorded in Plat Book 7, Pages 82 and 83 of the public records of Columbia County, Florida.

2. General description of improvement: Construction of Dwelling

3. Owner information:

a. Name and address: ARTHUR H. KIRSCH and PATRICIA KIRSCH,  
1004 NW Eadie St, Apt., 104, 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: BRYAN ZECHER CONSTRUCTION, INC.  
Post Office Box 815, Lake City, FL 32056

5. Surety n/a

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

6. Lender: N/A

7. Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1)(a)7., Florida Statutes: None

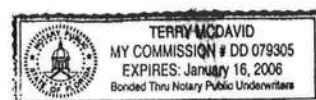
8. In addition to himself, Owner designates N/A to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes.

9. Expiration date of notice of commencement (the expiration date is 1 year from the date of recording unless a different date is specified). June 4, 2005.

Arthur H. Kirsch  
ARTHUR H. KIRSCH  
Patricia Kirsch  
PATRICIA KIRSCH

The foregoing instrument was acknowledged before me this 4th day of June, 2004, by ARTHUR H. KIRSCH and PATRICIA KIRSCH, Husband and Wife, who is personally known to me and who did not take an oath.

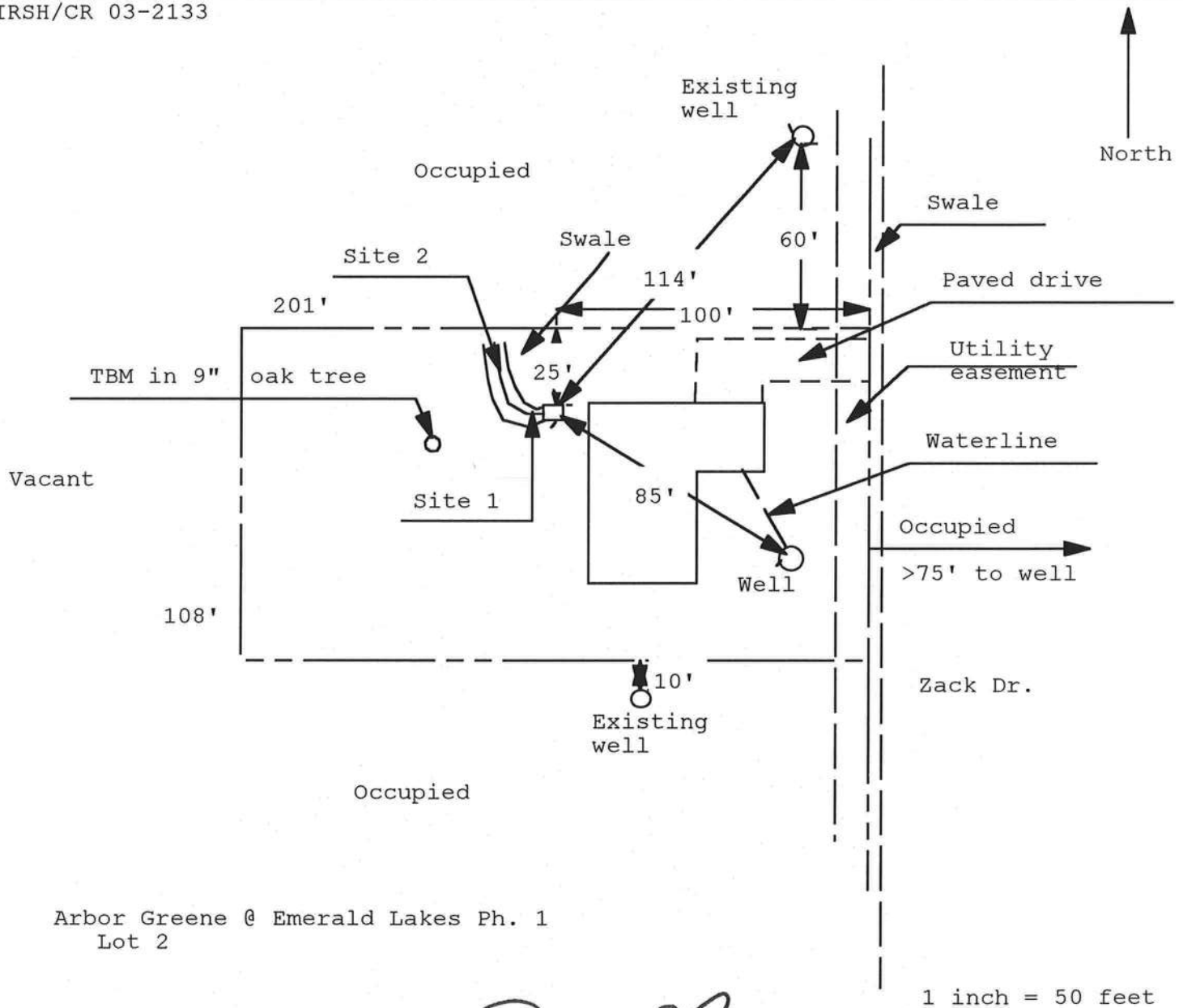
[Signature]  
Notary Public  
My commission expires: \_\_\_\_\_



**Application for Onsite Sewage Disposal System  
Construction Permit. Part II Site Plan**  
Permit Application Number: 04-0650N

**ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT**

KIRSH/CR 03-2133



Arbor Greene @ Emerald Lakes Ph. 1  
Lot 2

Site Plan Submitted By Paul Lopp Date 6/9/04  
Plan Approved Paul Lopp Not Approved \_\_\_\_\_ Date 6/9/04  
By Paul Lopp Salhi Haddy CPHU  
Notes: ESI- COLUMBIA



# FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs  
Residential Whole Building Performance Method A

Project Name: <b>406041KirschRes</b>	Builder: <b>Bryan Zecher</b>
Address: <b>Lot: 2, Sub: Zack Drive, Plat:</b>	Permitting Office:
City, State: <b>, FL</b>	Permit Number: <b>22078</b>
Owner:	Jurisdiction Number: <b>221000</b>
Climate Zone: <b>North</b>	

1. New construction or existing	New	___
2. Single family or multi-family	Single family	___
3. Number of units, if multi-family	1	___
4. Number of Bedrooms	3	___
5. Is this a worst case?	No	___
6. Conditioned floor area (ft <sup>2</sup> )	2024 ft <sup>2</sup>	___
7. Glass area & type	Single Pane	Double Pane
a. Clear glass, default U-factor	0.0 ft <sup>2</sup>	295.0 ft <sup>2</sup>
b. Default tint, default U-factor	0.0 ft <sup>2</sup>	0.0 ft <sup>2</sup>
c. Labeled U-factor or SHGC	0.0 ft <sup>2</sup>	0.0 ft <sup>2</sup>
8. Floor types		
a. Slab-On-Grade Edge Insulation	R=0.0, 195.0(p) ft	___
b. N/A		___
c. N/A		___
9. Wall types		
a. Frame, Wood, Adjacent	R=13.0, 153.0 ft <sup>2</sup>	___
b. Frame, Wood, Exterior	R=13.0, 1107.0 ft <sup>2</sup>	___
c. N/A		___
d. N/A		___
e. N/A		___
10. Ceiling types		
a. Under Attic	R=30.0, 2024.0 ft <sup>2</sup>	___
b. Under Attic	R=30.0, 148.0 ft <sup>2</sup>	___
c. N/A		___
11. Ducts		
a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 180.0 ft	___
b. N/A		___
12. Cooling systems		
a. Central Unit	Cap: 39.0 kBtu/hr	___
	SEER: 11.00	___
b. N/A		___
c. N/A		___
13. Heating systems		
a. Electric Heat Pump	Cap: 39.0 kBtu/hr	___
	HSPF: 7.20	___
b. N/A		___
c. N/A		___
14. Hot water systems		
a. Electric Resistance	Cap: 40.0 gallons	___
	EF: 0.89	___
b. N/A		___
c. Conservation credits		___
(HR-Heat recovery, Solar		___
DHP-Dedicated heat pump)		___
15. HVAC credits		CF, ___
(CF-Ceiling fan, CV-Cross ventilation,		___
HF-Whole house fan,		___
PT-Programmable Thermostat,		___
MZ-C-Multizone cooling,		___
MZ-H-Multizone heating)		___

Glass/Floor Area: 0.15

Total as-built points: 28598

Total base points: 28671

**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:** 6/8/04

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

**OWNER/AGENT:** [Signature]

**DATE:** 6/15/04

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:** [Signature]

**DATE:** [Signature]

# SUMMER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 2, Sub: Zack Drive, Plat: , , FL,

PERMIT #:

BASE				AS-BUILT							
<b>GLASS TYPES</b>											
.18 X Conditioned X BSPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt		Area X SPM X SOF = Points				
.18	2024.0	20.04	7301.0	Double, Clear	W	1.5	5.5	30.0	38.52	0.90	1036.6
				Double, Clear	SW	3.0	8.5	18.0	40.16	0.79	568.3
				Double, Clear	W	11.5	8.5	36.0	38.52	0.47	646.1
				Double, Clear	NW	11.5	8.5	18.0	25.97	0.59	275.8
				Double, Clear	W	11.5	7.0	10.0	38.52	0.43	166.5
				Double, Clear	W	1.5	6.5	18.0	38.52	0.93	642.9
				Double, Clear	N	1.5	5.5	30.0	19.20	0.93	534.7
				Double, Clear	N	1.5	1.5	6.0	19.20	0.71	81.9
				Double, Clear	E	1.5	4.5	16.0	42.06	0.85	570.7
				Double, Clear	E	1.5	8.5	60.0	42.06	0.96	2434.8
				Double, Clear	E	1.5	2.5	10.0	42.06	0.66	279.5
				Double, Clear	E	6.0	2.5	4.0	42.06	0.37	62.8
				Double, Clear	S	1.5	5.5	15.0	35.87	0.83	447.7
				Double, Clear	S	1.5	4.5	16.0	35.87	0.78	445.3
				Double, Clear	S	1.5	1.5	4.0	35.87	0.52	74.7
				Double, Clear	W	11.5	4.0	4.0	38.52	0.37	57.7
				<b>As-Built Total:</b>				<b>295.0</b>	<b>8325.9</b>		
<b>WALL TYPES</b>				Area X BSPM = Points		Type		R-Value		Area X SPM = Points	
Adjacent	153.0	0.70	107.1	Frame, Wood, Adjacent		13.0		153.0	0.60		91.8
Exterior	1107.0	1.70	1881.9	Frame, Wood, Exterior		13.0		1107.0	1.50		1660.5
<b>Base Total:</b>		<b>1260.0</b>	<b>1989.0</b>	<b>As-Built Total:</b>				<b>1260.0</b>	<b>1752.3</b>		
<b>DOOR TYPES</b>				Area X BSPM = Points		Type		Area X SPM = Points			
Adjacent	19.8	2.40	47.5	Exterior Insulated				19.8	4.10		81.2
Exterior	29.6	6.10	180.6	Adjacent Insulated				19.8	1.60		31.7
				Exterior Insulated				9.8	4.10		40.2
<b>Base Total:</b>		<b>49.4</b>	<b>228.1</b>	<b>As-Built Total:</b>				<b>49.4</b>	<b>153.0</b>		
<b>CEILING TYPES</b>				Area X BSPM = Points		Type		R-Value		Area X SPM X SCM = Points	
Under Attic	2024.0	1.73	3501.5	Under Attic		30.0		2024.0	1.73 X 1.00		3501.5
				Under Attic		30.0		148.0	1.73 X 1.00		256.0
<b>Base Total:</b>		<b>2024.0</b>	<b>3501.5</b>	<b>As-Built Total:</b>				<b>2172.0</b>	<b>3757.6</b>		

# SUMMER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 2, Sub: Zack Drive, Plat: , , FL,

PERMIT #:

BASE				AS-BUILT				
FLOOR TYPES    Area X BSPM = Points				Type	R-Value	Area X SPM = Points		
Slab	195.0(p)	-37.0	-7215.0	Slab-On-Grade Edge Insulation	0.0	195.0(p)	-41.20	-8034.0
Raised	0.0	0.00	0.0					
Base Total:			-7215.0	As-Built Total:		195.0		-8034.0
INFILTRATION    Area X BSPM = Points				Area X SPM = Points				
2024.0    10.21    20665.0				2024.0    10.21    20665.0				
Summer Base Points:			26469.6	Summer As-Built Points:			26619.8	
Total Summer Points	X System Multiplier	=	Cooling Points	Total Component	X Cap Ratio	X Duct Multiplier	X System Multiplier	X Credit Multiplier = Cooling Points
				(DM x DSM x AHU)				
26469.6	0.4266		11291.9	26619.8	1.000	(1.090 x 1.147 x 1.00)	0.310	0.950    9809.8
				26619.8	1.00	1.250	0.310	0.950    9809.8

# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 2, Sub: Zack Drive, Plat: , , FL,

PERMIT #:

BASE				AS-BUILT							
<b>GLASS TYPES</b>											
.18 X Conditioned X BWPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt			Area X WPM X WOF = Points			
.18	2024.0	12.74	4641.4	Double, Clear	W	1.5	5.5	30.0	20.73	1.03	639.3
				Double, Clear	SW	3.0	8.5	18.0	16.74	1.13	339.3
				Double, Clear	W	11.5	8.5	36.0	20.73	1.20	892.7
				Double, Clear	NW	11.5	8.5	18.0	24.30	1.03	450.0
				Double, Clear	W	11.5	7.0	10.0	20.73	1.21	251.2
				Double, Clear	W	1.5	6.5	18.0	20.73	1.02	380.5
				Double, Clear	N	1.5	5.5	30.0	24.58	1.00	739.5
				Double, Clear	N	1.5	1.5	6.0	24.58	1.02	150.2
				Double, Clear	E	1.5	4.5	16.0	18.79	1.06	318.9
				Double, Clear	E	1.5	8.5	60.0	18.79	1.02	1147.1
				Double, Clear	E	1.5	2.5	10.0	18.79	1.16	217.5
				Double, Clear	E	6.0	2.5	4.0	18.79	1.48	111.3
				Double, Clear	S	1.5	5.5	15.0	13.30	1.15	228.8
				Double, Clear	S	1.5	4.5	16.0	13.30	1.26	267.8
				Double, Clear	S	1.5	1.5	4.0	13.30	2.73	145.3
				Double, Clear	W	11.5	4.0	4.0	20.73	1.24	102.6
				<b>As-Built Total:</b>			<b>295.0</b>		<b>6382.0</b>		
<b>WALL TYPES</b> Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Adjacent	153.0	3.60	550.8	Frame, Wood, Adjacent	13.0		153.0	3.30		504.9	
Exterior	1107.0	3.70	4095.9	Frame, Wood, Exterior	13.0		1107.0	3.40		3763.8	
<b>Base Total:</b> 1260.0 4646.7				<b>As-Built Total:</b>		1260.0		4268.7			
<b>DOOR TYPES</b> Area X BWPM = Points				Type			Area X WPM = Points				
Adjacent	19.8	11.50	227.7	Exterior Insulated			19.8	8.40		166.3	
Exterior	29.6	12.30	364.1	Adjacent Insulated			19.8	8.00		158.4	
				Exterior Insulated			9.8	8.40		82.3	
<b>Base Total:</b> 49.4 591.8				<b>As-Built Total:</b>		49.4		407.0			
<b>CEILING TYPES</b> Area X BWPM = Points				Type	R-Value		Area X WPM X WCM = Points				
Under Attic	2024.0	2.05	4149.2	Under Attic	30.0		2024.0	2.05 X 1.00		4149.2	
				Under Attic	30.0		148.0	2.05 X 1.00		303.4	
<b>Base Total:</b> 2024.0 4149.2				<b>As-Built Total:</b>		2172.0		4452.6			



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

ADDRESS: Lot: 2, Sub: Zack Drive, Plat: , , FL,

PERMIT #:

BASE				AS-BUILT									
FLOOR TYPES    Area   X   BWPM   =   Points				Type	R-Value	Area   X   WPM   =   Points							
Slab	195.0(p)	8.9	1735.5	Slab-On-Grade Edge Insulation	0.0	195.0(p)	18.80	3666.0					
Raised	0.0	0.00	0.0										
Base Total:			1735.5	As-Built Total:		195.0	3666.0						
INFILTRATION    Area   X   BWPM   =   Points				Area   X   WPM   =   Points									
			2024.0	-0.59	-1194.2								
2024.0			-0.59	-1194.2									
Winter Base Points:			14570.5	Winter As-Built Points:			17982.1						
Total Winter Points	X	System Multiplier	= Heating Points	Total Component	X	Cap Ratio	X	Duct Multiplier	X	System Multiplier	X	Credit Multiplier	= Heating Points
				(DM x DSM x AHU)									
14570.5		0.6274	9141.5	17982.1	1.000	(1.069 x 1.169 x 1.00)	0.474	1.000	1.000	10642.8			
				17982.1	1.00	1.250	0.474	1.000	1.000	10642.8			

**WATER HEATING & CODE COMPLIANCE STATUS**

## Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 2, Sub: Zack Drive, Plat: , , FL,

PERMIT #:

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

CODE COMPLIANCE STATUS							
BASE				AS-BUILT			
Cooling Points	+	Heating Points	+ Hot Water Points = Total Points	Cooling Points	+	Heating Points	+ Hot Water Points = Total Points
11292		9142	8238 28671	9810		10643	8145 28598

**PASS**

# Code Compliance Checklist

## Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 2, Sub: Zack Drive, Plat: , , FL,

PERMIT #:

**6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST**

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

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

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	612.1	Comply with efficiency requirements in Table 6-12. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	612.1	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%.	
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	604.1, 602.1	Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	



# ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

**ESTIMATED ENERGY PERFORMANCE SCORE\* = 83.0**

The higher the score, the more efficient the home.

, Lot: 2, Sub: Zack Drive, Plat: , , FL,

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 39.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 11.00
4. Number of Bedrooms	3	b. N/A	
5. Is this a worst case?	No	c. N/A	
6. Conditioned floor area (ft <sup>2</sup> )	2024 ft <sup>2</sup>		
7. Glass area & type	Single Pane Double Pane	13. Heating systems	
a. Clear glass, default U-factor	0.0 ft <sup>2</sup> 295.0 ft <sup>2</sup>	a. Electric Heat Pump	Cap: 39.0 kBtu/hr
b. Default tint, default U-factor	0.0 ft <sup>2</sup> 0.0 ft <sup>2</sup>		HSPF: 7.20
c. Labeled U-factor or SHGC	0.0 ft <sup>2</sup> 0.0 ft <sup>2</sup>	b. N/A	
8. Floor types		c. N/A	
a. Slab-On-Grade Edge Insulation	R=0.0, 195.0(p) ft	14. Hot water systems	
b. N/A		a. Electric Resistance	Cap: 40.0 gallons
c. N/A			EF: 0.89
9. Wall types		b. N/A	
a. Frame, Wood, Adjacent	R=13.0, 153.0 ft <sup>2</sup>	c. Conservation credits	
b. Frame, Wood, Exterior	R=13.0, 1107.0 ft <sup>2</sup>	(HR-Heat recovery, Solar	
c. N/A		DHP-Dedicated heat pump)	
d. N/A		15. HVAC credits	CF,
e. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
10. Ceiling types		HF-Whole house fan,	
a. Under Attic	R=30.0, 2024.0 ft <sup>2</sup>	PT-Programmable Thermostat,	
b. Under Attic	R=30.0, 148.0 ft <sup>2</sup>	MZ-C-Multizone cooling,	
c. N/A		MZ-H-Multizone heating)	
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 180.0 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: [Signature]

Date: 6/15/04

Address of New Home: 593 Nw Zack Rd

City/FL Zip: LC, 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 EnergyStar<sup>TM</sup> 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](http://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)

**Columbia County Building Department  
Culvert Permit**

**Culvert Permit No.  
000000355**

DATE 07/14/2004 PARCEL ID # 28-3S-16-02372-502  
APPLICANT BRYAN ZECHER PHONE 752-8653  
ADDRESS P.O. BOX 815 LAKE CITY FL 32056  
OWNER ARTHUR & PATRICIA KIRSH PHONE 752-8653  
ADDRESS 593 NW ZACK DR LAKE CITY FL 32055  
CONTRACTOR BRYAN ZECHER PHONE 752-8653  
LOCATION OF PROPERTY 90W, TR ON BROWN ROAD, TL ON EMERALD LAKES DR., TR ON ZACK RD,  
HOME ON RIGHT \_\_\_\_\_

SUBDIVISION/LOT/BLOCK/PHASE/UNIT ARBOR GR/EM LAKES 2

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 INSTALATION 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**





# BAILEY BISHOP & LANE, INC.


*Engineers**Surveyors**Planners*

## FLOOR ELEVATION CERTIFICATION

PROPERTY DESCRIPTION: **ARBOR GREEN AT EMERALD LAKES  
LOT 2  
COLUMBIA COUNTY, FLORIDA**

OWNER: **AURTHUR & PATRICA KIRCH**

PROJECT REQUIREMENTS: For protection against water damage, the minimum finish floor elevation of the proposed building shall be **12** inches above the highest existing ground elevation at the proposed building. The ground around the proposed building shall be graded to direct all runoff around and away from the proposed building.

  
\_\_\_\_\_  
Gregory G. Bailey, P.E.

Date: July 2, 2004



### Notice of Treatment

**Applicator** Florida Pest Control & Chemical Co.

**Address** 536 SE BAY A DR

**City** Lake City **Phone** (386) 752-1703

**Site Location** **Subdivision** Emerald Lakes Est.

**Lot#** 2 **Block#**  **Permit#** 22078

**Address** 593 NW Zack Dr. Lake City

#### AREAS TREATED

Area Treated	Date	Time	Gal.	Print Technician's
				Name
Main Body				
Patio/s #				
Rear Stoop/s # 1	2-4-05	945	2	RD Crawford
Porch/s #				
Brick Veneer				
Extension Walls				
A/C Pad				
Front Walk/s # 1	2-4-05	945	1	RD Crawford
Exterior of Foundation				
Driveway Apron	2-4-05	945	4	RD Crawford
Out Building				
Tub Trap/s				
(Other)				

**Name of Product Applied** Dursban TC .05 %

**Remarks**

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

# GENERAL PUBLIC WORKS CITY OF COLUMBIA COUNTY

## 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-16-02372-502

Building permit No. 0000222078

Use Classification SFD, UTILITY

Fire: 39.69

Permit Holder BRYAN ZECHER

Waste: 85.75

Owner of Building ARTHUR & PATRICIA KIRSH

Total: 125.44

Location: 593 NW ZACK DR (ARBOR GREEN @ EM. LAKES LOT 2)

Date: 02/16/2005



*[Signature]*

Building Inspector

POST IN A CONSPICUOUS PLACE  
(Business Places Only)