DATE 03/24/2004 Columbia County	Building Permit PERMIT	
This Permit Expires One Year		
APPLICANT, KATIE REED	PHONE 752-4072	
ADDRESS 3492 EAST BAYA AVENUE	LAKE CITY FL 32025	
OWNER PAUL & ANGELA MEHALKO	PHONE	
ADDRESS 881 NW ZACK DRIVE	LAKE CITY FL 32055	
CONTRACTOR DON REED	PHONE	
LOCATION OF PROPERTY 90W, TR ON BROWN ROAD, TL  DRIVE, TL ON ZACK DRIVE, 4T	AT WINDING WAY, TL EMERALD LAKES	_
	IMATED COST OF CONSTRUCTION 126250.00	_
HEATED FLOOR AREA 2525.00 TOTAL ARE.	A 3240.00 HEIGHT 00 STORIES I	
FOUNDATION CONC WALLS FRAMED R	OOF PITCH 6/12 FLOOR SLAB	_
LAND USE & ZONING RSF-2	MAX. HEIGHT 25	
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-16-02372-617 SUBDIVISION	N ARBOR GREEN AT EMERALD LAKES	_
LOT 17 BLOCK PHASE 2 UNIT	TOTAL ACRES	
000000245 N CGC036224	Katte Reed	
Culvert Permit No. Culvert Waiver Contractor's License Number	ber Applicant/Owner/Contractor	
<u>PERMIT</u> <u>04-0186-N</u> <u>BK</u>	JK	
Driveway Connection Septic Tank Number LU & Zoning	g checked by Approved for Issuance New Resident	
COMMENTS: FINISHED FLOOR 1 FOOT ABOVE CENTER LINE PE	ER PLAT, NOC ON FILE	_
COMMENTS: FINISHED FLOOR 1 FOOT ABOVE CENTER LINE PE		<u> </u>
	Check # or Cash 1441	
FOR BUILDING & ZONING	Check # or Cash 1441  G DEPARTMENT ONLY (footer/Slab)	
FOR BUILDING & ZONING Temporary Power Foundation	Check # or Cash 1441  G DEPARTMENT ONLY (footer/Slab)  Monolithic	
Temporary Power Foundation date/app by	Check # or Cash 1441  G DEPARTMENT ONLY (footer/Slab)  Monolithic date/app. by date/app. by	
Temporary Power Foundation date/app by	Check # or Cash 1441  G DEPARTMENT ONLY (footer/Slab)  Monolithic date/app, by Sheathing/Nailing	
FOR BUILDING & ZONING Temporary Power Foundation  date/app by Under slab rough-in plumbing Slab  date/app by	Check # or Cash 1441  G DEPARTMENT ONLY (footer/Slab)  Monolithic date/app. by date/app. by	
FOR BUILDING & ZONING Temporary Power Foundation  date/app by Under slab rough-in plumbing Slab  date/app by Framing Rough-in plumbing about date/app, by	Check # or Cash 1441  G DEPARTMENT ONLY (footer/Slab)  Monolithic  date/app. by date/app. by  Sheathing/Nailing  date/app. by	
FOR BUILDING & ZONING Temporary Power Foundation  date/app by Under slab rough-in plumbing Slab  date/app by Framing Rough-in plumbing about date/app by  Electrical rough-in Heat & Air Duct	Check # or Cash 1441  G DEPARTMENT ONLY (footer/Slab)  Monolithic  date/app, by date/app by  Sheathing/Nailing  date/app by ove slab and below wood floor  date/app, by  Peri, beam (Lintel)	
FOR BUILDING & ZONING  Temporary Power Foundation  date/app by  Under slab rough-in plumbing Slab  date/app by  Framing Rough-in plumbing about date/app by  Electrical rough-in Heat & Air Duct date/app by	Check # or Cash 1441  G DEPARTMENT ONLY (footer/Slab)  Monolithic  date/app. by date/app. by  Sheathing Nailing  date/app. by  ove slab and below wood floor  date/app. by  Peri, beam (Lintel)  date/app. by	
FOR BUILDING & ZONING  Temporary Power Foundation  date/app by  Under slab rough-in plumbing Slab  date/app by  Framing Rough-in plumbing abordate/app by  Electrical rough-in Heat & Air Duct  date/app by  Permanent power C.O. Final	Check # or Cash 1441  G DEPARTMENT ONLY (footer/Slab)  Monolithic  date/app, by date/app by  Sheathing/Nailing  date/app by ove slab and below wood floor  date/app, by  Peri, beam (Lintel)	
FOR BUILDING & ZONING  Temporary Power Foundation  date/app by  Under slab rough-in plumbing Slab  date/app by  Framing Rough-in plumbing about date/app by  Electrical rough-in Heat & Air Duct date/app by  Permanent power C.O. Final date/app by  M/H tie downs, blocking, electricity and plumbing	Check # or Cash	-
FOR BUILDING & ZONING Temporary Power Foundation  date/app by  Under slab rough-in plumbing Slab  date/app by  Framing Rough-in plumbing about date/app by  Electrical rough-in Heat & Air Duct date/app by  Permanent power C.O. Final date/app. by  M/H tie downs, blocking, electricity and plumbing date/app.	Check # or Cash	-
FOR BUILDING & ZONING  Temporary Power Foundation  date/app by  Under slab rough-in plumbing Slab  date/app by  Framing Rough-in plumbing about date/app by  Electrical rough-in Heat & Air Duct date/app by  Permanent power C.O. Final date/app by  M/H tie downs, blocking, electricity and plumbing  Reconnection Pump pole date/app. by date/app.	Check # or Cash	-
FOR BUILDING & ZONING  Temporary Power Foundation  date/app by  Under slab rough-in plumbing Slab  date/app by  Framing Rough-in plumbing about date/app by  Electrical rough-in Heat & Air Duct date/app by  Permanent power C.O. Final date/app by  M/H tie downs, blocking, electricity and plumbing  Reconnection Pump pole date/app by  M/H Pole Travel Trailer	Check # or Cash	-
FOR BUILDING & ZONING  Temporary Power Foundation  date/app by  Under slab rough-in plumbing Slab  date/app by  Framing Rough-in plumbing about date/app by  Electrical rough-in Heat & Air Duct date/app by  Permanent power C.O. Final date/app by  M/H tie downs, blocking, electricity and plumbing  Reconnection Pump pole date/app by  M/H Pole Travel Trailer	Check # or Cash	-
FOR BUILDING & ZONING Temporary Power Foundation  date/app by  Under slab rough-in plumbing Slab  date/app by  Framing Rough-in plumbing about date/app by  Electrical rough-in Heat & Air Duct date/app by  Permanent power C.O. Final date/app by  M/H tie downs, blocking, electricity and plumbing date/app.  Reconnection Pump pole date/app. by date/app.  M/H Pole Travel Trailer date/app. by date/app. by date/app.  BUILDING PERMIT FEE S 635.00 CERTIFICATION FEE	Check # or Cash	-
FOR BUILDING & ZONING Temporary Power Foundation  date/app by  Under slab rough-in plumbing Slab  date/app. by  Framing Rough-in plumbing about date/app. by  Electrical rough-in Heat & Air Duct  date/app. by  Permanent power C.O. Final  date/app. by date/app.  M/H tie downs, blocking, electricity and plumbing  Reconnection Pump pole  date/app. by date/app.  M/H Pole Travel Trailer  date/app. by date/app.  BUILDING PERMIT FEE S 635.00 CERTIFICATION FEE  MISC. FEES S .00 ZONING CERT. FEE S 50.00	Check # or Cash	-
FOR BUILDING & ZONING  Temporary Power Foundation  date/app by  Under slab rough-in plumbing Slab  date/app. by  Framing Rough-in plumbing about date/app. by  Electrical rough-in Heat & Air Duct  date/app. by  Permanent power C.O. Final date/app. by  M/H tie downs, blocking, electricity and plumbing  Reconnection Pump pole date/app.  M/H Pole date/app. by date/app.  BUILDING PERMIT FEE S 635.00 CERTIFICATION FEE  MISC. FEES S .00 ZONING CERT. FEE S 50.00	Check # or Cash	-

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

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

This Permit Must Be Prominently Posted on Premises During Construction

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

### NOTICE OF COMMENCEMENT

### STATE OF FLORIDA COUNTY OF

21650

Inst:2004017727 Date:08/02/2004 Time:12:08
\_\_\_\_\_\_DC,P.DeWitt Cason,Columbia County B:1022 P:1187

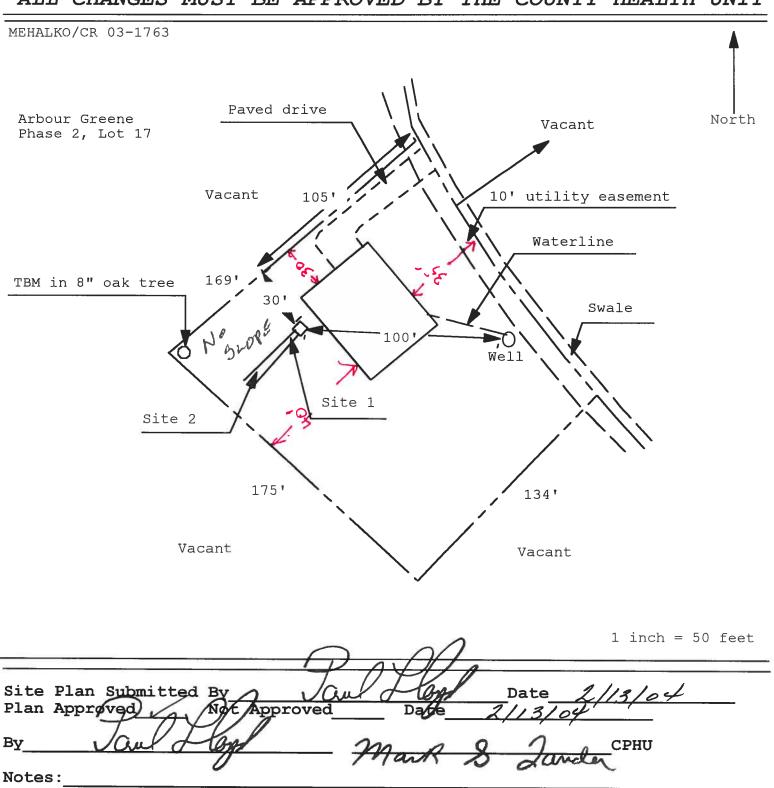
The undersigned hereby gives notice that improvement will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.

1.	Description of Property: Lot 17, Arbur Green @ Email Lukes II	<u>s</u>
2.	General Description of Improvement: Screen Enclaure	
3.	Owner Information:  a. Name and Address: Paul : Angela Mahalko  88)-NW Zack Or Lake City, FL 32055	
	Interest in Property: Owner	
	Name and Address of Fee Simple Titleholder (if other than owner):/	
4.	Contractor (name and address): Spice Corst.   Peeks Pools 9878 5 US Hwy 441 Lake Chy FL 378	125
5.	Surety: a. Name and Address:	
	b. Amount of Bond: N/A	
6.	Lender (name and address): 1//4	
7;:	Persons within the State of Florida designated by owner upon whom notices or other documents be served as provided by Florida Statutes 713.13(1)(a)(7):	may
8.	In addition to himself, owner designates: Reels Posts	
9.	to receive a copy of the Leinor's Notice as provided in Florida Statutes 713.13(1)(b). Expiration date of Notice of Commencement (the expiration date is 1 year from the date of recorunless a different date is specified):	ding
	Type Owner Name:	
	Type Owner Name:	
Swoi	to and subscribed before me this $20$ day of $30$ .	
	red ID Drivers Licenso Type Motary's Name April D. Rogers	
	Type Motary's Name Notary Public, State of Florida Commission Expiry & Number:	



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

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT





## 

### **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-16-02372-617

Building permit No. 000021650

Fire:

17.01

Use Classification SFD, UTILITY

Permit Holder DON REED

Waste: 36.75

Total:

Owner of Building PAUL & ANGELA MEHALKO

Location: 881 NW ZACK DRIVE, LAKE CITY, FI

53.76

**Building Inspector** 

Date: 07/30/2004

**POST IN A CONSPICUOUS PLACE** (Business Places Only)

### Building Permit Application

2 01 04	245 Di	dication No. 0403-07
Date 3-01-04	- chi	
Applicants Name & Address Don Reed Construction, Inc.		Phone 752-4072
3492 East Baya Avenue Lake City		752 4072
Owners Name & Address Paul J. and Angela M. Meha		Phone 752-4072
407 NW Forest Meadows Avenue La	ke City, Fig. 32055	Phone
Fee Simple Owners Name & Address N/A		
Contractors Name & Address Don Reed Construction, Inc		Phone 752-4072
3492 East Baya Avenue Lake City	, FL 32025	
Legal Description of Property See attached		
	L Tologo Phono 2	
Location of Property Lot 17, Arbor Greene At Emeral C	Lakes Phase /	E
To Bound I de viscosio No. 28-35-16-02372-617	Estimated Cost of Construction	\$ 180,000,00
Tax Parcel Identification No. 28-3S-16-02372-617  Type of Development single family dwelling	Number of Existing Dwellings o	n Property0
Comprehensive Plan Man Category RES. Low OEN	Zoning Map Category	RSF-2
Ruilding Usight 1) S Number of Stories + _ Floor Area	3,240 Total Acreage in De	evelopment
Distance From Descript Lines (Set Racks) Front 22 / Side		Street 45
Flood Zone Xo. Alt Finish Certification Date	Development Permit	NIA
Randing Company Name & Address		
Architect/Engineer Name & AddressMark_Disosway, P.E. F	O. Box 868 Lake Ci	ty. FL 32056
Mortgage Lenders Name & Address CNB National Bank 18	7 SW Bava Drive	
Lake City, FL 32025		ark or installation has
Application is hereby made to obtain a permit to do the work and installation	is as indicated. I certify that no we	laws regulating
commenced prior to the issuance of a permit and that all work will be perfor	med to meet the standards of an i	12113 1 - 6
construction in this jurisdiction.		
OWNERS AFFIDAVIT: I hereby certify that all the foregoing inform	ation is accurate and all work wil	l be done in compliance
with all applicable laws regulating construction and zoning.	26	
WARNING TO OWNER: YOUR FAILURE TO RECORD	A NOTICE OF COMMEN	CMENT MAY
DECLIE OF THE TAXABLE PARTICE FOR IMPROVEMENTS	s itt ytille property.	
IF YOU INTEND TO ORTAIN FINANCING, CUNSULI W	ITH YOUR LENDER OR .	ATTORNEY BEFORE
RECORDING YOUR NOTICE OF COMMENCEMENT.		Λ
		1)
	(1) (1)	1/
	1 Jan 1 (0)	<b>2</b>
	Contractor	
Owner or Agent (including contractor)	Contractor	
	CGC036224	
	Contractor License Number	
STATE OF FLORIDA	STATE OF FLORIDA	
COUNTY OF COLUMBIA	COUNTY OF COLUMBIA	sheerihad bafara ma
Sworn to (or affirmed) and subscribed before me	Sworn to (or affirmed) and su Geiger this 3 day of W	arch by Don Reed
Commission	# CC 987169	W UI UY DOTTING
Expires Ja	n, 26, 2005	
OFFICE AND TO DO	d Thru	LLV

Personally Known \_\_\_\_OR Produced Identification

Personally Known OR Produced Identification

### **COLUMBIA COUNTY 9-1-1 ADDRESSING**

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

### Addressing Maintenance

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

DATE ISSUED: March 2, 2004
ENHANCED 9-1-1 ADDRESS:
881 NW ZACK DR (LAKE CITY, FL 32055)
Addressed Location 911 Phone Number: NOT AVAIL.
OCCUPANT NAME: NOT AVAIL.
OCCUPANT CURRENT MAILING ADDRESS:
PROPERTY APPRAISER MAP SHEET NUMBER:
PROPERTY APPRAISER PARCEL NUMBER: 28-3S-16-02372-617
Other Contact Phone Number (If any):
Building Permit Number (If known):
Remarks: LOT 17, ARBOR GREENE AT EMERAL LAKES, PHASE 2
Address Issued By: Columbia County 9-1-1 Addressing Department

COLUMBIA COUNTY 9-1-1 ADDRESSING APPROVED THIS INSTRUMENT WAS PREPARED BY:

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

RETURN TO:

04 - 48

Inst: 2004002124 Date: 01/30/2004 Time: 16:23

Poc Stamp-Deed: 150.50 DC,P.DeWitt Cason,Columbia County B:1005 P:2557

Rec. 10.50

Doc. 150.50

TERRY MCDAVID POST OFFICE BOX 1328 LAKE CITY, PL 32056-1328

Property Appraiser's Parcel Identification No.: Part of R02372-001

### WARRANTY DEED

THIS INDENTURE, made this 29 day of January, 2004, between D D P CORPORATION, a corporation existing under the laws of the State of Florida, whose post office address is 4158 U.S. Highway 90 West, Lake City, FL 32055 and having its principal place of business in the County of Columbia, State of Florida, party of the first part, and PAUL J. MEHALKO and ANGELA M. MEHALKO, Husband and Wife, whose post office address is 467 NW FoRest Mentows /130055, of the State of Florida, parties of the Ave LAKE CITY second part,

WITNESSETH: that the said party of the first part, for and in consideration of the sum of Ten Dollars (\$10.00), to it in hand paid, the receipt whereof is hereby acknowledged, has granted, sold, aliened, remised, released, conveyed and bargained, confirmed, and by these presents doth grant, bargain, sell, alien, remise, release, convey and confirm unto the said party of the second part, and its heirs and assigns forever, all that certain parcel of land lying and being in the County of Columbia and State of Florida, more particularly described as follows:

Lot 17, ARBOR GREENE AT EMERALD LAKES PHASE 2, a subdivision according to the plat thereof as recorded in Plat Book 7, Pages 131-133 of the public records of Columbia County, Florida.

SUBJECT TO: Restrictions, easements and outstanding mineral rights of record, if any, and taxes for the current year.

רביבהם\_לההא זה.מר

IERKI INUNTYIN

hereditaments the tenements, with all TOGETHER appurtenances, with every privilege, right, title, interest and estate, reversion, remainder and easement thereto belong or in anywise appertaining:

TO HAVE AND TO HOLD the same in fee simple forever.

And the said party of the first part doth covenant with said party of the second part that it is lawfully seized of said premises; that they are free of all encumbrances, and that it has good right and lawful authority to sell the same; and the said party of the first part does hereby fully warrant the title to said land, and will defend the same against the lawful claims of all persons whomsoever.

IN WITNESS WHEREOF, the party of the first part has caused these presents to be signed in its name by its President, the day and year above written.

Signed, sealed and delivered in our presence:

miner

D D P CORPORATION, A Florida Corporation

III, President O.P. DAUGHTRY,

Witness: Terry McDavid

Inst:2004002124 Date:01/30/2004 Time:16:23

Doc Stamp-Deed : 150.50 DC,P.DeWitt Cason,Columbia County B:1005 P:2558

STATE OF FLORIDA COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this day of January, 2004, by O.P. DAUGHTRY, III, as President of D D P CORPORATION, a State of Florida corporation, on behalf of the corporation. He is personally known to me and did not take an oath.

Notary Public

My Commission Expires:



### NOTICE OF COMMENCEMENT

STATE OF FLORIDA COUNTY OF Columbia

LOAN NO.

2003-1743

THE UNDERSIGNED HEREBY INFORMS ALL CONCERNED THAT IMPROVEMENTS WILL BE MADE TO CERTAIN REAL PROPERTY AND, IN ACCORDANCE WITH SECTION 713.13 OF THE FLORIDA STATUTES, THE FOLLOWING INFORMATION IS STATED IN THE NOTICE OF COMMENCEMENT. THIS NOTICE IS VOID AND OF NO FORCE AND EFFECT IF CONSTRUCTION IS NOT COMMENCED WITHIN (90) DAYS OF

- 1. PROPERTY DESCRIPTION
  - A. Street Address or Location Description: TBD Zack Drive

Lake City, FLORIDA 32055

B Legal Description:

Lot 17, Arbor Greene At Emerald Lakes, Phase 2, a subdivision according to the plat thereof as recorded in Plat Book 7, Pages 131-133 of the public records of Columbia County, Florida.

- GENERAL DESCRIPTION OF IMPROVEMENTS: CONSTRUCTION OF SINGLE FAMILY DWELLING
- 3. A. OWNER INFORMATION NAME AND ADDRESS: Name: Paul J. Mehalko AND Angela M. Mehalko

MAILING ADDRESS 407 NW Forest Meadows Ave Lake City, Fl 32055

Address: TBD Zack Drive

Lake City, FLORIDA 32055

- B. OWNER'S INTEREST IN THE SITE OF IMPROVEMENT IS: FEE SIMPLE
- C. NAME AND ADDRESS OF FEE SIMPLE TITLEHOLDER (IF OTHER THAN OWNER) Address:
- 4. NAME AND ADDRESS OF CONTRACTOR:

Name: Don Reed Construction Address: 3492 East Baya Ave

Lake City , Fl

32025

Fax Number:

SURETY (IF ANY):

Name:

Address:

Amount of Bond:

Phone Number:

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

P. DeWITT CASON, CLERK OF COURTS

LENDER MAKING CONSTRUCTION LOAN:

Name: CNB NATIONAL BANK

Address: 187 SW BAYA DR., P.O. BOX 3239

LAKE CITY, FLORIDA 32025

7. PERSON DESIGNATED BY OWNER UPON WHOM NOTICES OR OTHER DOCUMENTS SERVED AS PROVIDED BY SECTION 713.13 (1) (a) FLORIDA STATUTES:

Address:

Phone Number:\_ Fax Number: \_\_

71 000/000400 Deta.04/20/200/ Time.45.93	
Inst:2004002126 Date:01/30/2004 Time:16:23	
DC,P.Dewitt Cason,Columbia County B:1005 P:258	14
DC.P.Dewitt Cason, Columbia County B: 1003 F.230	, ,

8. OWNER DESIGNATES THE FOLLOWING PERSON OF THE LIENORS NOTICE AS PROVIDED IN SECT Name: CNB NATIONAL BANK Address: 187 SW BAYA DR., P.O. BOX 3239 LAKE CITY, FLORIDA 32025 Attn:	N IN ADDITION TO HIMSELF TO RECEIVE A COPY FION 713.13 (1) (b), FLORIDA STATUTES:
9. EXPIRATION DATE OF NOTICE OF COMMENCE THE DATE OF RECORDING UNLESS A DIFFEREN	EMENT (THE EXPIRATION DATE IS 1 YEAR FROM T DATE IS SPECIFIED.)
WITNESS Terry McDavid	Doul Melhall  OWNER Paul J. Mehalko
WITNESS Crystal L. Brunner	OWNER Angela M. Mehalko
	OWNER
	OWNER
State of Florida	
The following instrument was acknowledged before me thi Paul J. Mehalko AND Angela M. Mehalko, HUSBAND AND	s JANUARY 29, 2004 by WIFE
who is personally known to me or who has produced who did take an oath.	as identification and
NOTARY PUBLIC (Seal)  ADD 079305	MY COMMISSION EXPIRES:

Project Name:

Climate Zone:

Address:

Owner:

3.

4.

5.

6.

City, State:

**MEHALKO RESIDENCE** 

Paul & Angela Mehalko

Lake City, FI 32055-

North

New construction or existing

Single family or multi-family

Number of Bedrooms

Conditioned floor area (fl2)

Is this a worst case?

Number of units, if multi-family

OWNER/AGENT:

DATE:

Lot: 17, Sub: Arbor Greene II, Plat:

### FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

New

Yes

2475 ft<sup>2</sup>

Single family

Builder:

12. Cooling systems

a. Central Unit

b. N/A

c. N/A

Permitting Office:

Permit Number: 21650

Jurisdiction Number: 22,000

**Don Reed Construction** 

Cap: 42.0 kBtu/hr

Cap: 42.0 kBtu/hr HSPF: 6.80

Cap: 50.0 gallons EF: 0.88

SEER: 10.00

7. G	lass area & type	_	
a. C	lear - single pane	0.0 ft <sup>2</sup>	13. Heating systems
b. C	lear - double pane	252.0 ft <sup>2</sup>	a. Electric Heat Pump
c. Ti	int/other SHGC - single pane	0.0 ft <sup>2</sup>	
d. Ti	int/other SHGC - double pane	0,0 ft <sup>2</sup>	b. N/A
8. F1	oor types	_	
a. Sl	ab-On-Grade Edge Insulation	R=0.0, 230.0(p) ft	c. N/A
b. N	/A	_	
c. N	/A		14. Hot water systems
9. W	all types		a. Electric Resistance
a. Fr	rame, Wood, Exterior	R=13.0, 1985.0 ft <sup>2</sup>	
b. Fr	rame, Wood, Adjacent	R=0.0, 206.0 ft <sup>2</sup>	b. N/A
c. N	/A	_	
d. N	/A	_	c. Conservation credits
e. N	/A		(HR-Heat recovery, Solar
10. Co	eiling types	_	DHP-Dedicated heat pump)
a. Ui	nder Attic	R=30.0, 2475.0 ft <sup>2</sup>	15. HVAC credits
b. N	/A	_	(CF-Ceiling fan, CV-Cross ventilation,
c. N	/A		HF-Whole house fan,
11. Di	ucts	_	PT-Programmable Thermostat,
a. Su	np: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 180.0 ft	MZ-C-Multizone cooling,
b. N	/A		MZ-H-Multizone heating)
	Glass/Floor Area: 0.	.10 Total as-built p	
by this Energ	by certify that the plans and so calculation are in compliance by Code.  PARED BY:  E: 7-5-3  by certify that this building, as	e with the Florida	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
	liance with the Florida Energy		Florida Statutes.

DATE: \_

BUILDING OFFICIAL:

### **SUMMER CALCULATIONS**

### Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 17, Sub: Arbor Greene II, Plat: , Lake City, FI, 32055-

PERMIT #:

	BASE		AS-BUILT									
GLASS TYPES					<del></del>							
.18 X Condition		SPM =	Points		Ove	erhang	3					
Floor Ar	rea			Type/SC	Ornt	Len	Hgt	Area X	SPN	1 X	SOF	= Points
.18 2475	.0	20.04	8927.8	Double, Clear	Е	1.5	7.7	38.0	40.2	2	0.95	1454.6
				Double, Clear	E	1.5	7.7	40.0	40.2		0.95	1531.2
				Double, Clear	E	1.5	11.5	19.0	40.2		0.99	755.3
				Double, Clear Double, Clear	E N	1.5 1.5	10.3 7.2	20.0	40.2		0.98	789.0
				Double, Clear	N N	1.5	2.5	20.0 24.0	19.2		0.96	368.0 367.7
				Double, Clear	W	1.5	7.6	36.0	36.9		0.95	1265.9
				Double, Clear	s	1.5	5.7	55.0	34.5		0.84	1594.6
					_		• • • • • • • • • • • • • • • • • • • •	30.0	01.0		0.01	1004.0
				As-Built Total:				252.0				8126.3
WALL TYPES	Area >	K BSPM	= Points	Туре		R	-Value	e Area	Χ	SPN	1 =	Points
Adjacent	206.0	0.70	144.2	Frame, Wood, Exterior			13.0	1985.0		1.50		2977.5
Exterior	1985.0	1.70	3374.5	Frame, Wood, Adjacent			0.0	206.0		2.20		453.2
Base Total:	2191.0		3518.7	As-Built Total:				2191.0				2420.7
Dase Iotal.	2191.0		3310.7	As-Built Total.				2151.0				3430.7
DOOR TYPES	Area >	( BSPM	= Points	Туре				Area	Х	SPN	1 =	Points
Adjacent	18.0	2.40	43.2	Exterior Wood				33.0		6.10		201.3
Exterior	151.0	6.10	921.1	Exterior Wood				18.0		6.10		109.8
				Exterior Wood				20.0		6.10		122.0
				Exterior Wood				80.0		6.10		488.0
				Adjacent Wood				18.0		2.40		43.2
Base Total:	169.0		964.3	As-Built Total:				169.0				964.3
CEILING TYPES	S Area X	BSPM	= Points	Туре		R-Valı	ue .	Area X S	SPM	x sc	:M =	Points
Under Attic	2475.0	1.73	4281.8	Under Attic			30.0	2475.0	1.73 X	1.00		4281.8
Base Total:	2475.0		4281.8	As-Built Total:				2475.0				4281.8
FLOOR TYPES	Area X	( BSPM	= Points	Туре		R-	-Value	. Area	Х	SPN	1 =	Points
Slab	230.0(p)	-37.0	-8510.0	Slab-On-Grade Edge Insula	ition		0.0	230.0(p	-4	1.20		-9476.0
Raised	0.0	0.00	0.0					**				
Base Total:			-8510.0	As-Built Total:				230.0				-9476.0
	A == = V	/ DODA		. To come rouns					· · ·	05:		
INFILTRATION	Area X	RSHW	= Points					Area	Х	SPN	=	Points
	2475.0	10.21	25269.8					2475.0	0	10.21		25269.8

### **SUMMER CALCULATIONS**

### Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 17, Sub: Arbor Greene II, Plat: , Lake City, FI, 32055-

PERMIT #:

	BASE		AS-BUILT							
Summer Base Points: 34452.3			Summer As-Built Points:	32596.8						
Total Summer Points	X System Multiplier	= Cooling Points	Total X Cap X Duct X System X Credi Component Ratio Multiplier Multiplier Multip (DM x DSM x AHU)	-						
34452.3	0.4266	14697.4	32596.8 1.000 (1.090 x 1.147 x 1.00) 0.341 1.000 32596.8 1.00 1.250 0.341 1.00							

### **WINTER CALCULATIONS**

### Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 17, Sub: Arbor Greene II, Plat: , Lake City, FI, 32055-

PERMIT #:

BASE		AS-BUILT								
GLASS TYPES										
.18 X Conditioned X BWPM	= Points			rhang						
Floor Area	Type/SC (	Ornt	Len	Hgt	Area X	WF	M X	WO	F = Points	
.18 2475.0 12.74	5675.7	Double, Clear	E	1.5	7.7	38.0	9.	09	1.02	353.0
		Double, Clear	E	1.5	7.7	40.0	9.	09	1.02	371.6
		Double, Clear	E	1.5	11.5	19.0		09	1.01	174.3
		Double, Clear	E	1.5	10.3	20.0	9.		1.01	184.0
		Double, Clear Double, Clear	N N	1.5 1.5	7.2 2.5	20.0	14.		1.00	286.5
		Double, Clear	W	1.5	2.5 7.6	24.0 36.0	14.: 10.:		1.01	347.3 392.7
		Double, Clear	S	1.5	5.7	55.0		03	1.14	251.8
					J.,	00.0	7.	00	1.14	201.0
		As-Built Total:				252.0				2361.1
WALL TYPES Area X BWP	M = Points	Туре		R-	Value	Area	X	WPN	1 =	Points
Adjacent 206.0 3.6	0 741.6	Frame, Wood, Exterior			13.0	1985.0		3.40		6749.0
Exterior 1985.0 3.7	0 7344.5	Frame, Wood, Adjacent			0.0	206.0		10.40		2142.4
Base Total: 2191.0	8086.1	As-Built Total:				2191.0	<u>.</u>			8891.4
DOOR TYPES Area X BWP	M = Points	Туре				Area	Х	WPN	1 =	Points
Adjacent 18.0 11.5	0 207.0	Exterior Wood				33.0		12.30		405.9
Exterior 151.0 12.3	0 1857.3	Exterior Wood				18.0		12.30		221.4
		Exterior Wood				20.0		12.30		246.0
		Exterior Wood				80.0		12.30		984.0
		Adjacent Wood				18.0		11.50		207.0
Base Total: 169.0	2064.3	As-Built Total:				169.0				2064.3
CEILING TYPES Area X BWP	M = Points	Туре	R-	Value	e Ar	ea X W	PM	x wc	:M =	Points
Under Attic 2475.0 2.0	5 5073.8	Under Attic			30.0	2475.0	2.05	X 1.00		5073.8
Base Total: 2475.0	5073.8	As-Built Total:				2475.0				5073.8
FLOOR TYPES Area X BWP	M = Points	Туре		R-	Value	Агеа	Х	WPN	I =	Points
Slab 230.0(p) 8.	9 2047.0	Slab-On-Grade Edge Insulation	· · · · · · · · · · · · · · · · · · ·		0.0	230.0(p		18.80		4324.0
Raised 0.0 0.0						(b		, 0.00		1027.0
Base Total:	2047.0	As-Built Total:				230.0		·		4324.0
INFILTRATION Area X BWP	M = Points					Area	X	WPN	=	Points
2475.0 -0.	59 -1460.2					2475.	0	-0.59		-1460.2

### WINTER CALCULATIONS

### Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 17, Sub: Arbor Greene II, Plat: , Lake City, FI, 32055- PERMIT #:

	BASE		AS-BUILT							
Winter Base Points: 21486.6			Winter As-Built Points:	21254.3						
Total Winter X Points	( System = Multiplier	Heating Points	Total X Cap X Duct X System X Credit Component Ratio Multiplier Multipli (DM x DSM x AHU)	•						
21486.6	0.6274	13480.7	21254.3 1.000 (1.069 x 1.169 x 1.00) 0.501 1.000 <b>21254.3 1.00 1.250 0.501 1.000</b>	13319.4 <b>13319.4</b>						

### WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 17, Sub: Arbor Greene II, Plat: , Lake City, FI, 32055- PERMIT #:

BASE  WATER HEATING  Number of X Multiplier = Total  Bedrooms				AS-BUILT							
				Tank Volume	EF	Number of X Bedrooms		X Tank X Multiplier X Cred Ratio Multip			
4		2746.00	10984.0	50.0	0.88	4	·	1.00	2746.00	1.00	10984.0
				As-Built To	otal:						10984.0

	CODE COMPLIANCE STATUS												
BASE							45-	BUILT					
Cooling Points		eating oints	+	Hot Water Points	=	Total Points	Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points
14697	13	3481		10984		39162	13909		13319		10984		38213

PASS



### **Code Compliance Checklist**

### Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 17, Sub: Arbor Greene II, Plat: , Lake City, FI, 32055- 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.	1
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%.	İ
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\* = 82.1

The higher the score, the more efficient the home.

Paul & Angela Mehalko, Lot: 17, Sub: Arbor Greene II, Plat: , Lake City, Fl, 32055-

1.	New construction or existing	New	12.	Cooling systems		
2.	Single family or multi-family	Single family	a.	Central Unit	Cap: 42.0 kBtu/	hr
3.	Number of units, if multi-family	1			SEER: 10.0	
4.	Number of Bedrooms	4	b.	N/A		
5.	Is this a worst case?	Yes				_
6.	Conditioned floor area (fl²)	2475 ft²	C.	N/A		-
7.	Glass area & type	_				
a.	Clear - single pane	0.0 ft <sup>2</sup>	13.	Heating systems		-
b.	Clear - double pane	252.0 ft <sup>2</sup>	a.	Electric Heat Pump	Cap: 42.0 kBtu/	hr
C.	Tint/other SHGC - single pane	0.0 ft <sup>2</sup>		-	HSPF: 6.8	
d.	Tint/other SHGC - double pane	0.0 ft²	b.	N/A		_
8.	Floor types	_				
a.	Slab-On-Grade Edge Insulation	R=0.0, 230.0(p) ft	C.	N/A		-
b.	N/A					_
C.	N/A		14.	Hot water systems		_
9.	Wall types	_	a.	Electric Resistance	Cap: 50.0 gallo	ns
a.	Frame, Wood, Exterior	R=13.0, 1985.0 ft <sup>2</sup>			EF: 0.5	
b.	Frame, Wood, Adjacent	R=0.0, 206.0 ft <sup>2</sup>	b.	N/A		
C.	N/A					
d.	N/A	_	C.	Conservation credits		_
e.	N/A			(HR-Heat recovery, Solar		_
10.	Ceiling types			DHP-Dedicated heat pump)		
a.	Under Attic	R=30.0, 2475.0 ft <sup>2</sup>	15.	HVAC credits		
b.	N/A	-		(CF-Ceiling fan, CV-Cross ventilation,		
C.	N/A			HF-Whole house fan,		
11.	Ducts			PT-Programmable Thermostat,		
a.	Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 180.0 ft		RB-Attic radiant barrier,		
b.	N/A			MZ-C-Multizone cooling,		
				MZ-H-Multizone heating)		
	rtify that this home has complied vistruction through the above energ				THE STAN	<b>.</b>
Cor	rtify that this home has complied vistruction through the above energy is home before final inspection.	y saving features which wil	ll be ins	talled (or exceeded)	OF THE ST	ATE

in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: 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 <u>not</u> 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 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: FLRCPB v3.2)

### **Residential System Sizing Calculation**

Summary Project Title:

Paul & Angela Mehalko

Lake City, FI 32055-

MEHALKO RESIDENCE

Code Only Professional Version Climate: North

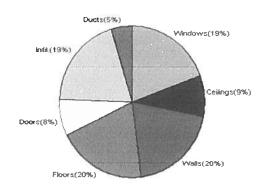
2/5/2004

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	36593	Btuh	Total cooling load calculation	35553	Btuh		
Submitted heating capacity	42000	Btuh	Submitted cooling capacity	42000	Btuh		
Submitted as % of calculated	114.8	%	Submitted as % of calculated	118.1	%		

### WINTER CALCULATIONS

Winter Heating Load (for 2475 sqft)

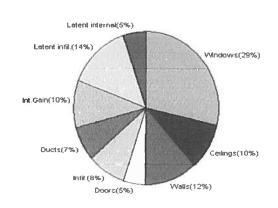
Load component			Load	
Window total	252	sqft	7132	Btuh
Wall total	2191	sqft	7266	Btuh
Door total	169	sqft	2875	Btuh
Ceiling total	2475	sqft	3218	Btuh
Floor total	230	ft	7268	Btuh
Infiltration	165	cfm	7093	Btuh
Subtotal			34850	Btuh
Duct loss			1743	Btuh
TOTAL HEAT LOSS			36593	Btuh



### **SUMMER CALCULATIONS**

Summer Cooling Load (for 2475 sqft)

Load component			Load	
Window total	252	sqft	10239	Btuh
Wall total	2191	sqft	4183	Btuh
Door total	169	sqft	1687	Btuh
Ceiling total	2475	sqft	3515	Btuh
Floor total			0	Btuh
Infiltration	145	cfm	2864	Btuh
Internal gain			3600	Btuh
Subtotal(sensible)			26088	Btuh
Duct gain			2609	Btuh
Total sensible gain			28696	Btuh
Latent gain(infiltration)			5017	Btuh
Latent gain(internal)			1840	Btuh
Total latent gain			6857	Btuh
TOTAL HEAT GAIN			35553	Btuh



EnergyGauge® System Sizing based on ACCA Manual J. PREPARED BY: DATE:

### **System Sizing Calculations - Winter**

### Residential Load - Component Details

Paul & Angela Mehalko

Project Title: MEHALKO RESIDENCE

**Professional Version** Climate: North

Lake City, FI 32055-

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

2/5/2004

Code Only

Window	Panes/SHGC/Frame/U	Orientation	n Area X	HTM=	Load
1	2, Clear, Metal, DEF	N	38.0	28.3	1075 Btuh
2	2, Clear, Metal, DEF	N	40.0	28.3	1132 Btuh
3	2, Clear, Metal, DEF	N	19.0	28.3	538 Btuh
4	2, Clear, Metal, DEF	N	20.0	28.3	566 Btuh
5	2, Clear, Metal, DEF	W	20.0	28.3	566 Btuh
6	2, Clear, Metal, DEF	W	24.0	28.3	679 Btuh
7	2, Clear, Metal, DEF	S	36.0	28.3	1019 Btuh
8	2, Clear, Metal, DEF	E	55.0	28.3	1556 Btuh
	Window Total		252		7132 Btuh
Walls	Туре	R-Value	Area X	HTM=	Load
1	Frame - Exterior	13.0	1985	3.1	6154 Btuh
2	Frame - Adjacent	0.0	206	5.4	1112 Btuh
	Wall Total		2191		7266 Btuh
Doors	Туре		Area X	HTM=	Load
1	Wood - Exter		33	17.9	592 Btuh
2	Wood - Exter		18	17.9	323 Btuh
3	Wood - Exter		20	17.9	359 Btuh
4	Wood - Exter		80	17.9	1435 Btuh
5	Wood - Adjac		18	9.2	166 Btuh
	Door Total		169		2875Btuh
Ceilings	Туре	R-Value	Area X	HTM=	Load
1	Under Attic	30.0	2475	1.3	3218 Btuh
	Ceiling Total		2475		3218Btuh
Floors	Туре	R-Value	Size X	HTM=	Load
1	Slab-On-Grade Edge Insul	0	230.0 ft(p)	31.6	7268 Btuh
	Floor Total		230		7268 Btuh
Infiltration	Туре	ACH X	Building Volume	CFM=	Load
	Natural	0.40	24750(sqft)	165	7093 Btuh
	Mechanical		` ' '	0	0 Btuh
	Infiltration Total			165	7093 Btuh

	Subtotal	34850 Btuh
Totals for Heating	Duct Loss(using duct multiplier of 0.05)	1743 Btuh
	Total Btuh Loss	36593 Btuh

### **Manual J Winter Calculations**

Residential Load - Component Details (continued)

Paul & Angela Mehalko

Project Title: MEHALKO RESIDENCE

Code Only Professional Version

Lake City, FI 32055-

Climate: North

2/5/2004

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 Project Title: MEHALKO RESIDENCE

Paul & Angela Mehalko

Code Only Professional Version

Climate: North

Lake City, FI 32055-

Reference City: Gainesville (Defaults)

Summer Temperature Difference: 18.0 F

2/5/2004

	Type	Over	hang	Win	dow Are	a(soft)	Н	TM	Load	
Window	Panes/SHGC/U/lnSh/ExSh Ornt	Len	Hgt	Gross		Unshaded		Unshaded	Loud	
1	2, Clear, DEF, N, N N	1.5	7.66	38.0	0.0	38.0	22	22	836	Btuh
2	2, Clear, DEF, N, N N	1.5	7.66	40.0	0.0	40.0	22	22	880	Btuh
3	2, Clear, DEF, N, N N	1.5	11.5	19.0	0.0	19.0	22	22	418	Btuh
4	2, Clear, DEF, N, N N	1.5	10.3	20.0	0.0	20.0	22	22	440	Btuh
5	2, Clear, DEF, N, N W	1.5	7.16	20.0	0.0	20.0	22	72	1440	Btuh
6	2, Clear, DEF, N, N W	1.5	2.5	24.0	3.0	21.0	22	72	1579	Btuh
7	2, Clear, DEF, N, N S	1.5	7.58	36.0	36.0	0.0	22	37	792	Btuh
8	2, Clear, DEF, N, N E	1.5	5.66	55.0	2.1	52.9	22	72	3854	
1			ı							
	Window Total			252					10239	Btuh
Walls	Туре	R-	Value		F	Area		HTM	Load	
1	Frame - Exterior		13.0		1	985.0		1.7	3454	Btuh
2	Frame - Adjacent		0.0		2	206.0		3.5	729	Btuh
					_					
Dana	Wall Total					191.0			4183	Btuh
Doors	Туре				-	Area		HTM	Load	
1	Wood - Exter					33.0		10.0	329	Btuh
2	Wood - Exter					18.0		10.0	180	Btuh
3	Wood - Exter					20.0		10.0	200	Btuh
4	Wood - Exter				80.0			10.0	798	Btuh
5	Wood - Adjac					18.0		10.0	180	Btuh
	Door Total				1	69.0			1687	Btuh
Ceilings	Type/Color	R-\	/alue		F	\rea		HTM	Load	
1	Under Attic/Dark		30.0		2	475.0		1.4	3514	Btuh
	Ceiling Total					175.0			3515	Btuh
Floors	Туре	R-\	/alue		\$	Size		HTM	Load	
1	Slab-On-Grade Edge Insulation		0.0		2	230.0 ft(p)		0.0	0	Btuh
	Floor Total				2	30.0			0	Btuh
Infiltration	Туре	Α	CH		Vo	lume		CFM=	Load	
	Natural		0.35	24750		4750	144.7		2864	Btuh
ĺ	Mechanical							0	0	Btuh
	Infiltration Total							145	2864	Btuh

Internal	Occupar	4 50.4	Btuh/occupant		Appliance	Load	
gain	8	Х	300	+	1200	3600	Btuh

### **Manual J Summer Calculations**

Residential Load - Component Details (continued)

halko Project Title: Coo

MEHALKO RESIDENCE Pro

Paul & Angela Mehalko

Lake City, FI 32055-

Códe Only Professional Version

Climate: North

2/5/2004

	Subtotal	26088	Btuh
	Duct gain(using duct multiplier of 0.10)	2609	Btuh
	Total sensible gain	28696	Btuh
Totals for Cooling	Latent infiltration gain (for 51 gr. humidity difference)	5017	Btuh
	Latent occupant gain (8 people @ 230 Btuh per person)	1840	Btuh
	Latent other gain	0	Btuh
	TOTAL GAIN	35553	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)

### **Columbia County Building Department Culvert Permit**

### Culvert Permit No. 000000245

DATE $03/$	24/2004		PARCEL ID#	28-35-16-02372-617	_		
APPLICANT	KAT	IE REED		PHON	TE 752-4072		
ADDRESS	3492	EAST BAYA AVE	NUE	LAKE CITY		FL 32025	
OWNER P	AUL &	ANGELA MEHALK	0	РНОМ	VE		
ADDRESS _	881	NW ZACK DRIVE		LAKE CITY		FL 32055	
CONTRACTO	OR DO	ON REED		PHON	1E CGC0362	24	
LOCATION (	OF PRO	PERTY 90W,	ΓR ON BROWN ROA	D, TL AT WINDING W	AY, TL ON EM	1ERALD LAKES DR.,	
TL ON ZACK D	RIVE, 4	TH LOT ON RIGHT					
SUBDIVISIO	N/LOT	/BLOCK/PHASE	/UNIT ARB. GREEN	l @ EMERALD	17		
SIGNATURE	X	1 PAR DO					
	4						
[ <del>[</del> ]			REQUIREMENTS	-	at of 32 feet	leaving 24 feet of	
X	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.						
	INS	STALLATION N	OTE: Turnouts wil	l be required as foll	ows:		
	b)	the driveway to	be served will be p	ng driveway turnout aved or formed with	n concrete.		
		concrete or pave		a minimum of 12 for ever is greater. The veted turnouts.			
Culvert installation shall conform to the approved site plan standards.							
	Dep	artment of Trans	oortation Permit in	stallation approved	standards.		
	Oth	er					

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



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

-MISMOCK	That the	3	10 Chis	10188181	
		Para di Santa			Remarks
£05%	7	RS BAN	DURS	Name of Product Applied	Name o
Gansy	20	1730	4/2/64	(Other)	Par (c
			4	Trap/s	Tub
				Out Building	Out
				Driveway Apron	Drivev
			:	Exterior of Foundation	Exterior
				Walk/s #	W.
				A/C Pad	P
				Extension Walls	Exten
				Brick Veneer	Bric
				Porch/s #	Po
				Stoop/s #	Sto
				Patio/s #	Pa
				Main Body	Ma
Print Technician's Name	Gal.	Time	Date	Area Treated	Area
				TREATED	AREAS
	1	K DK	W Zac	188 N	Address
	1650	nit#	Permit#	Block#	Lot#
to S	3/4/6	WAS WIT	Subdivision	Location Subd	Site L
752-1703	Phone_		, 1	4.	City
		WA He	T 13%	s 536 S	Address
10171	nical Co.	Florida Pest Control & Chemical Co	est Contr	1	Applicator
1200	nent	<b>Notice of Treatment</b>	otice of	Z	

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

Notice of Treatment —							
Applicator Florida Pest Cor	ntrol & Chemical Co. 10794						
Address							
City	Phone						
Site Location Subdivision Emerald Lakes							
Lot#Permit#P(5)							
Address_881 NW Zock DR							
AREAS TREATED							
Area Treated Date	Print Technician's						
///	· Carrie						
	4 1400°64 GUAUY						
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)							
N. 12 Dun 241177 25							
Remarks							
Exterior (rate not timished							

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