DATE 10/02/2		nbia County B			PERMIT 000027390
APPLICANT D	DANIEL ZWICKEL		PHONE	386.344.3279	
ADDRESS 4	4914 US HWY 441-N		LAKE CITY		FL 32055
OWNER D	DANIEL ZWICKEL		PHONE	386.344.3279	and the same of th
ADDRESS	760 SW MEADOWLA	ANDS DRIVE	LAKE CITY		FL 32024
CONTRACTOR	MICHAEL MEDDERS		PHONE	904.705.9278	
LOCATION OF	PROPERTY 41-S TO LOT ON	C-131.TR TO MEADOW	VLANDS,TR AND IT'S	ТНЕ 9ТН	
TYPE DEVELOR	PMENT SFD/UTILITY	ES	TIMATED COST OF C	CONSTRUCTION	109700.00
HEATED FLOOR	R AREA 1531.00	TOTAL ARE	EA 2194.00	HEIGHT 18.0	00 STORIES 1
FOUNDATION	CONC WA	LLS FRAMED F	ROOF PITCH 6'12	FLO	OR CONC
LAND USE & ZO	ONING A-3		MA	X. HEIGHT 35	
Minimum Set Ba	ck Requirments: STREE	T-FRONT 30.00	REAR	25.00	SIDE 25.00
NO. EX.D.U.	0 FLOOD ZONE	<u> </u>	DEVELOPMENT PE	RMIT NO.	
PARCEL ID 0	06-6S-17-09617-104	SUBDIVISIO	N MEADOWLANI	OS	
LOT 9	BLOCK PHASE	1 UNIT	TO	TAL ACRES _ 5.31	
		CGC060658	100	10/1-61	wiche !
Culvert Permit No	culvert Waiver	Contractor's License Nun	nber	Applicant/Owner/C	ontractor
EXISTING	08-0602-N	BLK		WR	<u>Y</u>
Driveway Connec	ction Septic Tank Numb	er LU & Zonii	ng checked by A	pproved for Issuance	New Resident
COMMENTS: 1	NOC ON FILE. 1 FOOT ABO	OVE ROAD.			
				Check # or Cas	sh 1739
	FOR E	BUILDING & ZONIN	IG DEPARTMEN	T ONLY	(footer/Slab)
Temporary Power	***************************************	Foundation		Monolithic	
	date/app. by		date/app. by		date/app. by
Under slab rough	5	Slab _		Sheathing/Na	ailing
Framing	date/	app. by	date/app. by	- J G	date/app. t
	date/app. by	Rougn-in plumbing at	pove slab and below wo	od 1100r	date/app. by
Electrical rough-	in	Heat & Air Duct		Doni hogas (Lintal)	35-40-5590.31.00-8-39-00.04.00-0
	date/app. by		date/app. by	Peri. beam (Lintel)	date/app. by
Permanent power		C.O. Final	The second secon	Culvert	· · · · · · · · · · · · · · · · · · ·

550.00 **BUILDING PERMIT FEE \$** CERTIFICATION FEE \$ 10.97 SURCHARGE FEE \$ 10.97 MISC. FEES \$ 0.00 ZONING CERT FEE \$ WASTE FEE \$ 50.00 FIRE FEE \$ 0.00 FLOOD DEVELOPMENT EEE \$ LOOD PONE FEE \$ 25.00 **CULVERT FEE \$** TOTAL FEE 646.94

date/app. by

date/app. by

date/app. by

Pump pole

Travel Trailer

date/app. by

date/app. by

date/app. by

date/app. by

Pool

date/app. by

Re-roof

Utility Pole

CLERKS OFFICE

date/app. by

date/app. by

M/H tie downs, blocking, electricity and plumbing

date/app. by

Reconnection

INSPECTORS OFFICE

M/H Pole

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."

EVERY PERMIT ISSUED SHALL BECOME INVALID UNLESS THE WORK AUTHORIZED BY SUCH PERMIT IS COMMENCED WITHIN 180 DAYS AFTER ITS ISSUANCE, OR IF THE WORK AUTHORIZED BY SUCH PERMIT IS SUSPENDED OR ABANDONED FOR A PERIOD OF 180 DAYS AFTER THE TIME THE WORK IS COMMENCED. A VALID PERMIT RECIEVES AN APPROVED INSPECTION EVERY 180 DAYS. WORK SHALL BE CONSIDERED TO BE IN ACTIVE PROGESS WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS.

Columbia County Building Permit Application

For Office Use Only Application # 0809-53 Date Received 9/25/08 By G Permit # 27390
Zoning Official BLX Date 01.10.08 Flood Zone X Land Use A-3 Zoning A3,
FEMA Map # N/A Elevation N/A MFE above RIVER River N/A Plans Examiner UR Date 9/29/0
Comments
NOC 1/EH Deed or PA Site Plan State Road Info Parent Parcel #
□ Dev Permit # □ In Floodway □ Letter of Auth, from Contractor □ F W Comp. letter
IMPACT FEES: EMS 29.88 Fire 978.63 Corr 409.6 Road/Code 1,046.00 /2/0
School 81,500.00 = TOTAL 83,063.67 - 1738 + 1739
Septic Permit No. 08-0602 Fax
Name Authorized Person Signing Permit DANIEL ZWICKe 2 Phone 344-3279
Address 1004 64574001 pp - 5A4 16 32326 - 4919 45 Hwy 441-N. L.C. 713
Owners Name Daniel Zwickel Phone 386344-3279
911 Address 760 SW Meadowlands Dr, LAKE (ity, FL 32024
Contractors Name AMEZIA JEWER INC - MICHAEL MEDDES Phone 904-705-9728
Address 1004 EASTART RD JACKSWILLE RC. 32218
Fee Simple Owner Name & Address
Bonding Co. Name & Address
Architect/Engineer Name & Address Wellaw Meddler 1004 ensures Pol 504 R 32224
Mortgage Lenders Name & Address BB { 7
Circle the correct power company – FL Power & Light — Clay Elec. — Suwannee Valley Elec. — Progress Energy
Property ID Number <u>06-65-17-09617-109</u> Estimated Cost of Construction <u>70k</u>
Subdivision Name METADOXCAND Lot 9 Block Unit / Phase
Driving Directions South on 131 (R) right on meadlowlands dr left at 760
9th on 18ft
Number of Existing Dwellings on Property
Construction of Single Family DwellinG Total Acreage 6.31 Lot Size
Do you need a - <u>Culvert Permit</u> or <u>Culvert Waiver</u> or <u>Have an Existing Drive</u> Total Building Height/8
Actual Distance of Structure from Property Lines - Front 138 Side 118 Side 38 Rear 346
Number of Stories Heated Floor Area
Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or

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.

Page 1 of 2 (Both Pages must be submitted together.)

-- Tw called a Spoke of Daniel --

Revised 1-10-08

Columbia County Building Permit Application

TIME LIMITATIONS OF APPLICATION: An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application has been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated.

FLORIDA'S CONSTRUCTION LIEN LAW: Protect Yourself and Your Investment

According to Florida Law, those who work on your property or provide materials, and are not paid-in-full, have a right to enforce their claim for payment against your property. This claim is known as a construction lien. If your contractor fails to pay subcontractors or material suppliers or neglects to make other legally required payments, the people who are owed money may look to your property for payment, even if you have paid your contractor in full. This means if a lien is filed against your property, it could be sold against your will to pay for labor, materials or other services which your contractor may have failed to pay.

NOTICE OF RESPONSIBILITY TO BUILDING PERMITEE:

<u>YOU ARE HEREBY NOTIFIED</u> as the recipient of a building permit from Columbia County, Florida, you will be held responsible to the County for any damage to sidewalks and/or road curbs and gutters, concrete features and structures, together with damage to drainage facilities, removal of sod, major changes to lot grades that result in ponding of water, or other damage to roadway and other public infrastructure facilities caused by you or your contractor, subcontractors, agents or representatives in the construction and/or improvement of the building and lot for which this permit is issued. No certificate of occupancy will be issued until all corrective work to these public infrastructures and facilities has been corrected.

<u>WARNING TO OWNER:</u> YOUR FAILURE TO RECORD A NOTICE OF COMMENCMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

<u>OWNERS CERTIFICATION:</u> I hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws and regulating construction and zoning. I further understand the above written responsibilities in Columbia County for obtaining this Building Permit.

South March	
Owners Signature	
2240-161-74-100-0	

<u>CONTRACTORS AFFIDAVIT:</u> By my signature I understand and agree that I have informed and provided this written statement to the owner of all the above written responsibilities in Columbia County for obtaining this Building Permit.

this Building Permit.	ten responsibilities in Columbia County for obtaining
Michael Meddew Contractor's Signature (Permitee) M342 - 545 - 51 - 469 - 0	Contractor's License Number <u>CG C-4666</u> Columbia County Competency Card Number
Affirmed under penalty of perjury to by the Contractor an	nd subscribed before me this 25 day of September 2008.
Personally known or Produced Identification **Contractor** State of Florida Notary Signature (For the Contractor)	SEAL: Lisa Huchingson MY COMMISSION # DD607758 EXPIRES: October 23, 2010

FloridaNotaryService com-

NOTICE OF COMMENCEMENT

County Clerk's Office Stamp or Seal

Tax Parcel Identification Number	06-65-17-09617-109	county derivational statistics of seasons and seasons are seasons as a season s
Florida Statutes. the following inf	ses notice that improvements will be made to certain real commation is provided in this NOTICE OF COMMENCE	EMENT.
1. Description of property (legal of	description): Lot 9 Meadowlands 5 7605W Meadowlands Dr Las	D Phase 1
2. General description of improve	ments: NEW 1-10ME	vecigies seaf
3. Owner Information a) Name and address: b) Name and address of	Dansel Zwickel 49/4 U	15 Hay 441 N Lake City, FL 3.
c) Interest in property _		
4. Contractor Information	AMOUR SPAKE LAKE	1004 EPISTAOLT UP SAY K?
b) Telephone No:	Fax ?	No. (Opt.)
5. Surety Information		(SFS)
b) Amount of Bond:		
c) Telephone No.:	Fax	No. (Opt.)
6 IJ.		
a) Name and address:	BB\$T	
b) Phone No.	ate of Florida designated by owner upon whom notices or	
a) Name and address:	ST 5 70 50 00 10 10 10 10 10 10 10 10 10 10 10 10	
b) Telephone No.:	Fax N	No. (Opt.)
Florida Statutes:	esignates the following person to receive a copy of the Lie	enor's Notice as provided in Section 713.13(l)(b).
a) Name and address:	Par	No (Oot)
b) Telephone No.:	Fax	No. (Opt.)
	ommencement (the expiration date is one year from the	date of recording unless a different date
COMMENCEMENT ARE CON STATUTES, AND CAN RESUI COMMENCEMENT MUST BI	NOSULT YOUR LENDER OR AN ATTORNEY BEFOREMENT.	PTER 713, PART I, SECTION 713.13, FLORIDA NTS TO YOUR PROPERTY; A NOTICE OF EFORE THE FIRST INSPECTION. IF YOU INTEND
	Print Name	Znickel
The foregoing instrument was acknown	owledged before me , a Florida Notary, this 25 da	ay of September, 20 D8, by:
Daniel Zuckel	as	(type of authority, e.g. officer, trustee, attorney
act) for	(nai	me of party on behalf of whom instrument was executed).
Personally Known OR Produ	ced Identification X Type DL	311/
N	1 Chuyh Notary Stamp or S	EXPIRES: October 23, 2010
11 V -'5 - V C	AND	(407)398-0163 FloridaNotaryService com
	tion 92.525. Florida Statutes, Under penalties of perjury the best of my knowledge and belief.	y. I designe that I have read the foregoing and that the

Signature of Natural Person Signing (in line #10 above.)

Prepared by: Judi M. Lowrey Provident Title & Mortgage, Inc. 206 S. Marion Avenue Lake City, Florida 32025

File Number: 08-046

General Warranty Deed

Made this May 8, 2008 A.D. By Michael C. Chandler and Alicia P. Chandler, husband and wife, 4914 S. Greenland Hideaway Drive, Jacksonville, FL 32258, hereinafter called the grantor, to Daniel A. Zwickel, an unmarried man, whose post office address is: 4914 US Highway 441 N., Lake City, FL 32055, hereinafter called the grantee:

(Whenever used herein the term "grantor" and "grantee" include all the parties to this instrument and the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporations)

Witnesseth, that the grantor, for and in consideration of the sum of Ten Dollars, (\$10.00) and other valuable considerations, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, aliens, remises, releases, conveys and confirms unto the grantee, all that certain land situate in Columbia County, Florida, viz:

Lot 9, MEADOWLANDS PHASE 1, as per plat thereof recorded in Plat Book 7, Pages 139 and 140, of the Public Records of Columbia County, Florida.

Said property is not the homestead of the Grantor(s) under the laws and constitution of the State of Florida in that neither Grantor(s) or any members of the household of Grantor(s) reside thereon.

Parcel ID Number: 06-6S-17-09617-109

Together with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

To Have and to Hold, the same in fee simple forever.

And the grantor hereby covenants with said grantee that the grantor is lawfully seized of said land in fee simple; that the grantor has good right and lawful authority to sell and convey said land; that the grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances except taxes accruing subsequent to December 31, 2007.

In Witness Whereof, the said grantor has signed and sealed these presents the day and year first above written.

Signed, sealed and delivered in our presence: Out Witness Printed Name L. Taylor GOS	Michael C. Chandler Address: 4914 S. Greenland Hideaway Drive, Jacksonville, FL 32258
Witness Printed Name And Barrington State of Florida	Alicia P. Chaude (Seal) Alicia P. Chandler Address: 4914 S. Greenland Hideaway Drive, Jacksonville, FL 32258
County of Columbia	
The foregoing instrument was acknowledged before me this 8th husband and wife, who is/are personally known to me or who has p	day of May, 2008, by Michael C. Chandler and Alicia P. Chandler as identification.
	Notary Public Print Name: Judi M. Lowrey My Commission Expires: October 2, 2009

A & B Well Drilling, Inc.

5673 NW Lake Jeffery Road Lake City, FL, 32055 386-758-3409

9/25/2008

To: Columbia County Building Department	
Description of well to be installed for Customer:	Quickal
Located at Address: 7/00 st. W. Meastoured	hop Drive

1 hp 20 gpm- 1 1/2" drop over 82 gallon equivalent captive tank with cycle stop and back flow prevention. With SRWM permit.

William Bias

William Blas

OBO9-53

Faxed on 9-25-08



STATE OF FLORIDA DEPARTMENT OF HEALTH

APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 08-0602- N

PART II - SITE PLAN-Scale: Each block represents 5 feet and 1 inch = 50 feet. Notes: Daniel Zwickel Site Plan submitted by:_ Not Approved Columbia CHD Plan Approved X County Health Departme

COLUMBIA COUNTY 9-1-1 ADDRESSING

P. O. Box 1787, Lake City, FL 32056-1787 PHONE: (386) 758-1125 * FAX: (386) 758-1365 * Email: ron_croft@columbiacountyfla.com

Addressing Maintenance

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

DATE REQUESTED:

9/2/2008

DATE ISSUED:

9/4/2008

ENHANCED 9-1-1 ADDRESS:

760

SW MEADOWLANDS

DR

LAKE CITY

FL 32024

PROPERTY APPRAISER PARCEL NUMBER:

06-6S-17-09617-109

Remarks:

LOT 9 MEADOWLANDS S/D PHS 1

Address Issued By:

Columbia County 9-1-1 Addressing / GIS Department

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

LETTER OF AUTHORIZATION

Date: 9/25/08
Columbia County Building Department P.O. Drawer 1529 Lake City, FL 32056
I MICHAEL MODERU , License No. CGC-0600 TV do hereby
Authorize Dan zwillet to pull and sign permits on my
behalf.
Sincerely, Medler Medler
Sworn to and subscribed before me this Z5th day of Sept ,2008.
Notary Public: Sale Tedolin
My commission expires:
Personally Known MY COMMISSION # DD 805686 EXPIRES: July 14, 2012 Bonded Thru Notary Public Underwriters
Produced Valid Identification: DL

Revised: 1/2008

STATE OF FLORIDA



DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

CONSTRUCTION INDUSTRY LICENSING BOARD 1940 NORTH MONROE STREET TALLAHASSEE FL 32399-0783

(850) 487-1395

MEDDERS, MICHAEL EDWIN
AMELIA JEWEL INC
1004 EASTPORT RD
JACKSONVILLE FL 32218

Congratulations! With this license you become one of the nearly one million Floridians licensed by the Department of Business and Professional Regulation. Our professionals and businesses range from architects to yacht brokers, from boxers to barbeque restaurants, and they keep Florida's economy strong.

Every day we work to improve the way we do business in order to serve you better. For information about our services, please log onto www.myfloridalicense.com. There you can find more information about our divisions and the regulations that impact you, subscribe to department newsletters and learn more about the Department's initiatives.

Our mission at the Department is: License Efficiently, Regulate Fairly. We constantly strive to serve you better so that you can serve your customers. Thank you for doing business in Florida, and congratulations on your new license!



STATE OF FLORIDA AC# 3825541 DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

CGC060658

06/22/08 070527042

CERTIFIED GENERAL CONTRACTOR MEDDERS, MICHAEL EDWIN AMELIA JEWEL INC

IS CERTIFIED under the provisions of Ch.489 FS Expiration date: AUG 31, 2010 L08062200050

DETACH HERE

AC# 3825543

STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION CONSTRUCTION INDUSTRY LICENSING BOARD

SEQ# L08062200050

DATE BATCH NUMBER LICENSE NBR 06/22/2008 070527042 CGC060658

The GENERAL CONTRACTOR
Named below IS CERTIFIED
Under the provisions of Chapter 489 FS.
Expiration date: AUG 31, 2010

MEDDERS, MICHAEL EDWIN AMELIA JEWEL INC 1004 EASTPORT RD JACKSONVILLE FI

FL 32218

CHARLIE CRIST GOVERNOR

CHUCK DRAGO INTERIM SECRETARY

DISPLAY AS REQUIRED BY LAW

Project Name:

Address:

ZWICKEL RES.

Lot: 9, Sub: MEADOWLANDS, Plat:

AMELIA JEWEL

LAKE CITY

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

Builder:

Permitting Office:

Owner:	DAN ZWICKEL	2055-			Permit Number:	L7390	
Climate Zone:	North				Jurisdiction Number:	221000	
Chimate Zone.	NOITH						
New construction of		Nev	v _	12.	Cooling systems		
Single family or m		Single famil	у	a.	Central Unit	Cap: 30.0 kBtt	/hr
Number of units, it	The state of the s		1_			SEER: 13.	00
4. Number of Bedroo	PAGE TO LA	8	_	b.	N/A		_
Is this a worst case		Ye	_				_
Conditioned floor a		1520 ft		c.	N/A		-
	ea: (Label reqd. by 13-10	4.4.5 if not default)					_
a. U-factor:	De	escription Area			Heating systems		
(or Single or Doub b. SHGC:	ble DEFAULT) 7a. (Dble	e Default) 63.0 ft ²	1000	a.	Electric Heat Pump/Split	Cap: 30.0 kBtu HSPF: 7.	
(or Clear or Tint I	DEFAULT) 7b.	(Clear) 63.0 ft ²		b.	N/A		_
8. Floor types	***	(0.00.)					_
a. Slab-On-Grade Ed	ge Insulation	R=0.0, 175.5(p) f	t	c.	N/A		_
b. N/A		4,					-
c. N/A				14.	Hot water systems		_
Wall types					Electric Resistance	Cap: 50.0 gallo	ons
a. Frame, Wood, Exte	erior	R=11.0, 959.5 ft	2			EF: 0	J11/0000
b. Frame, Wood, Adja	acent	R=11.0, 290.0 ft		b.	N/A		_
c. N/A							
d. N/A			-	c.	Conservation credits		_
e. N/A			===		(HR-Heat recovery, Solar		_
Ceiling types					DHP-Dedicated heat pump)		
a. Under Attic		R=30.0, 1520.0 ft	2	15.	HVAC credits		
b. N/A			_		(CF-Ceiling fan, CV-Cross ventilation	i ,	_
c. N/A					HF-Whole house fan,	100	
11. Ducts					PT-Programmable Thermostat,		
a. Sup: Unc. Ret: Un	c. AH: Garage	Sup. R=6.0, 150.0 f	t		MZ-C-Multizone cooling,		
b. N/A			_		MZ-H-Multizone heating)		
			1				
6							
9				-			
3	/FI A 0.04	Total as-b	uilt p	oints	19679	_	
Glass	s/Floor Area: 0.04				22257 PASS	5	
			до р	0			
I hereby certify that the	he plans and specifica	ations covered by		Re	view of the plans and		4
	compliance with the		//		cifications covered by this	OF THE STAT	CORDS.
Code.	1/1/1	1	1		culation indicates compliance		12 M
PREPARED BY:	KeiThW	111/44/		with	the Florida Energy Code.	15	18
DATE: 09-0	Keith N	7	6		ore construction is completed building will be inspected for	GRE GRE	F S
	his building, as design		nce		ppliance with Section 553.908	1.	//
with the Florida Energ	gy Code. M & A	rose t			rida Statutes.	A CO	STA
with the Florida Energian OWNER/AGENT DATE:	M.S. Wellen	DVEN!		BU	ILDING OFFICIAL:	OD WE'TK	5
DATE:				234243933	TE:		
	1						
i i redominant glass typ	e. Por actual glass type				er Glass output on pages 2&4. LRCPB v4.5.2)		

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 9, Sub: MEADOWLANDS, Plat: , LAKE CITY, FL, 32055-

	BASE					AS-	BUI	LT				
GLASS TYPES .18 X Condition Floor Are		SPM = F	Points	Type/SC		rhang Len	Hgt	Area X	SPI	их	SOF	= Points
.18 1520.	0	18.59	5086.0	1.Double, Clear 2.Double, Clear 3.Double, Clear	S W	1.0 1.0 1.0	6.0 1.0 7.0	24.0 9.0 30.0	3	2.06 5.87 8.52	0.97 0.52 0.98	978.0 168.0 1135.0
				As-Built Total:				63.0				2281.0
WALL TYPES	Area X	BSPM	= Points	Туре		R-	Value	Area	Χ	SPN	/I =	Points
Adjacent Exterior	290.0 959.5	0.70 1.70	203.0 1631.2	Frame, Wood, Exterior Frame, Wood, Adjacent			11.0 11.0	959.5 290.0		1.70 0.70		1631.2 203.0
Base Total:	1249.5		1834.2	As-Built Total:				1249.5				1834.2
DOOR TYPES	Area X	BSPM	= Points	Туре				Area	Х	SPN	<i>1</i> =	Points
Adjacent Exterior Base Total:	17.5 56.0 73.5	2.40 6.10	42.0 341.6 383.6	1.Exterior Insulated 2.Exterior Insulated 3.Adjacent Insulated As-Built Total:				21.0 35.0 17.5 73.5		4.10 4.10 1.60		86.1 143.5 28.0 257.6
CEILING TYPES	Area X	BSPM	= Points	Туре	F	R-Valu	e A	Area X S	SPM	X SC	CM =	Points
Under Attic	1520.0	1.73	2629.6	1. Under Attic			30.0	1520.0 1	.73)	(1.00		2629.6
Base Total:	1520.0		2629.6	As-Built Total:				1520.0				2629.6
FLOOR TYPES	Area X	BSPM	= Points	Туре		R-	Value	Area	Х	SPM	1 =	Points
Slab 1 Raised	75.5(p) 0.0	-37.0 0.00	-6493.5 0.0	1. Slab-On-Grade Edge Insula	ation		0.0	175.5(p	-	41.20		-7230.6
Base Total:			-6493.5	As-Built Total:				175.5				-7230.6
INFILTRATION	Area X	BSPM	= Points					Area	Х	SPM	1 =	Points
	1520.0	10.21	15519.2					1520.0)	10.21		15519.2

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 9, Sub: MEADOWLANDS, Plat: , LAKE CITY, FL, 32055-

	BASE		AS-BUILT					
Summer Base Points: 18959.1			Summer As-Built Points: 15291.0					
Total Summer X System = Cooling Points Multiplier Points			Total X Cap X Duct X System X Credit = Cooling Component Ratio Multiplier Multiplier Multiplier Points (System - Points) (DM x DSM x AHU)					
18959.1	0.3250	6161.7	(sys 1: Central Unit 30000btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0(INS) 15291 1.00 (1.09 x 1.147 x 1.00) 0.260 1.000 4970.5 15291.0 1.00 1.250 0.260 1.000 4970.5					

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 9, Sub: MEADOWLANDS, Plat: , LAKE CITY, FL, 32055-

BASE	AS-BUILT
GLASS TYPES .18 X Conditioned X BWPM = Points Floor Area	Overhang Type/SC Ornt Len Hgt Area X WPM X WOF = Point
.18 1520.0 20.17 5519.0	1.Double, Clear E 1.0 6.0 24.0 18.79 1.02 458.0 2.Double, Clear S 1.0 1.0 9.0 13.30 2.73 326.0 3.Double, Clear W 1.0 7.0 30.0 20.73 1.00 624.0
	As-Built Total: 63.0 1408.0
WALL TYPES Area X BWPM = Poir	rs Type R-Value Area X WPM = Points
Adjacent 290.0 3.60 104 Exterior 959.5 3.70 355	
Base Total: 1249.5 459	2 As-Built Total: 1249.5 4594.2
DOOR TYPES Area X BWPM = Poir	Type Area X WPM = Points
Adjacent 17.5 11.50 20 Exterior 56.0 12.30 686 Base Total: 73.5 896	8 2.Exterior Insulated 35.0 8.40 294.0 3.Adjacent Insulated 17.5 8.00 140.0
CEILING TYPES Area X BWPM = Poir	s Type R-Value Area X WPM X WCM = Points
Under Attic 1520.0 2.05 3110	0 1. Under Attic 30.0 1520.0 2.05 X 1.00 3116.0
Base Total: 1520.0 311	0 As-Built Total: 1520.0 3116.0
FLOOR TYPES Area X BWPM = Poin	s Type R-Value Area X WPM = Points
Slab 175.5(p) 8.9 1560 Raised 0.0 0.00 0	9 1. Slab-On-Grade Edge Insulation 0.0 175.5(p 18.80 3299.4
Base Total: 156	9 As-Built Total: 175.5 3299.4
INFILTRATION Area X BWPM = Poin	s Area X WPM = Points
1520.0 -0.59 -896	8 1520.0 -0.59 -896.8

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 9, Sub: MEADOWLANDS, Plat: , LAKE CITY, FL, 32055-

BASE			AS-BUILT					
Winter Base	Points:	14784.4	Winter As-Built Points: 12131.2					
Total Winter X Points	System = Multiplier	Heating Points	Total X Cap X Duct X System X Credit = Heating Component Ratio Multiplier Multiplier Multiplier Points (System - Points) (DM x DSM x AHU)					
14784.4	0.5540	8190.5	(sys 1: Electric Heat Pump 30000 btuh ,EFF(7.8) Ducts:Unc(S),Unc(R),Gar(AH),R6.0 12131.2 1.000 (1.069 x 1.169 x 1.00) 0.437 1.000 6627.6 12131.2 1.000 1.250 0.437 1.000 6627.6					

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 9, Sub: MEADOWLANDS, Plat: , LAKE CITY, FL, 32055-

PERMIT #:

	Е	BASE			AS-BUILT							
WATER HEA Number of Bedrooms	TING X	Multiplier	=	Total	Tank Volume	EF	Number of Bedrooms	х	Tank X Ratio	Multiplier	X Credit Multiplie	
3		2635.00		7905.0	50.0	0.90	3		1.00	2693.56	1.00	8080.7
					As-Built To	otal:						8080.7

				CODE	C	OMPLI	ANCE	S1	TATUS	3			
		BAS	SE							AS	-BUILT		
Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points	Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points
6162		8191		7905		22257	4970		6628		8081		19679

PASS



Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 9, Sub: MEADOWLANDS, Plat: , LAKE CITY, FL, 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.	V
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.	1
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.	NA
Additional Infiltration reqts	606.1.ABC.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	V

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

COMPONENTS	SECTION	REQUIREMENTS	CHECH
Water Heaters	612.1	Comply with efficiency requirements in Table 612.1.ABC.3.2. Switch or clearly marked cir breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	V
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%.	NA
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	V
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.	1
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	1/
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.	V

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 86.6

The higher the score, the more efficient the home.

DAN ZWICKEL, Lot: 9, Sub: MEADOWLANDS, Plat: , LAKE CITY, FL, 32055-

1.	New construction or existing		New	_	12.	Cooling systems	
2.	Single family or multi-family	Sin	gle family	_		Central Unit	Cap: 30.0 kBtu/hr
3.	Number of units, if multi-family		1	_			SEER: 13.00
4.	Number of Bedrooms		3	-	b.	N/A	
5.	Is this a worst case?		Yes				
6.	Conditioned floor area (ft²)		1520 ft ²		c.	N/A	
7.	Glass type 1 and area: (Label reqd.	by 13-104.4.5 if no	t default)				
a	. U-factor:	Description	Area		13.	Heating systems	
t	(or Single or Double DEFAULT) o. SHGC:	7a. (Dble Default)	63.0 ft ²	-	a.	Electric Heat Pump/Split	Cap: 30.0 kBtu/hr HSPF: 7.80
	(or Clear or Tint DEFAULT)	7b. (Clear)	63.0 ft ²		b.	N/A	
8.	Floor types						
а	. Slab-On-Grade Edge Insulation	R=0.0, 1	75.5(p) ft	_	c.	N/A	-
t	o. N/A			_			
C	. N/A			_	14.	Hot water systems	
9.	Wall types				a.	Electric Resistance	Cap: 50.0 gallons
a	. Frame, Wood, Exterior	R=11.0	, 959.5 ft ²	_			EF: 0.90
b	. Frame, Wood, Adjacent	R=11.0	, 290.0 ft ²	-	b.	N/A	
C	. N/A			_			
C	I. N/A			_	c.	Conservation credits	
	. N/A			_		(HR-Heat recovery, Solar	
10.	Ceiling types					DHP-Dedicated heat pump)	
а	. Under Attic	R=30.0,	1520.0 ft ²		15.	HVAC credits	_
t	. 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	0, 150.0 ft	_		MZ-C-Multizone cooling,	
b	. N/A			_		MZ-H-Multizone heating)	

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: M. E. Mehowicanps of City/FL Zip: LAKE City & -3

*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 TM 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.

1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4 EnergyGauge® (Version: FLRCPB v4.5.2)

BUILDING INPUT SUMMARY REPORT

	Title: ZWICKEL RE	S. Family Type:		Single	Address Type:	Lot Information	Y.
H	Owner: DAN ZWICKE	EL New/Existing:		New	Lot #:	9	
PROJECT	# of Units: 1	Bedrooms:		3	Subdivision:	MEADOWLAN	DS
5	Builder Name: AMELIA JEW	/EL Conditioned A	Area:	1520	Platbook:	(blank)	
0	Climate: North	Total Stories:		1	Street:	N/A	
6	Permit Office: LAKE CITY	Worst Case:		Yes	County:	COLUMBIA	
	Jurisdiction #: (blank)	Rotate Angle:		90	City, St, Zip:	LAKE CITY, FI	_, 32055-
-	•		r	*	- 15/0 NO USA		
00	# Floor Type	R-Val Area/Perimeter Units	S	# Door Type	14 (14) 4 (14) 14 (14) 14 (14) 14 (14)	Area	Units
Ö	1 Slab-On-Grade Edge Insulation	0.0 175.5(p) ft 1	DOORS	1 Insulated 2 Insulated	Exterior Exterior	21.0 ft ² 35.0 ft ²	1
Ŏ			١ŏ	3 Insulated	Adjacent	17.5 ft²	1
교			Ď				
\dashv	# Ceiling Type	R-Val Area Base Area Units	-	# System Type		Efficiency	Capacity
U)		30.0 1520.0 ft ² 1520.0 ft ² 1	9	1 Central Unit		SEER: 13.00	
9	1 Olidei Attic	30.0 1320.0 11 1320.0 11 1	ΙΞ	1 Central Offic		SEEK. 10,00	SOLO REIGHT
=			la				
Ш			COOLING				
ပ	Credit Multipliers: None		ပ	Credit Multipliers:	None		
	# Wall Type	Location R-Val Area Units	1	# System Type		Efficiency	Capacity
-	1 Frame - Wood	Exterior 11.0 959.5 ft ² 1	HEATING	1 Electric Heat Pum	nn/Split	HSPF: 7.80	30.0 kBtu/hr
	2 Frame - Wood	Adjacent 11.0 290.0 ft ² 1	I≅	Liectife Fleat Fun	ip/Opiit	11011.7.00	oo.o kbta/iii
그			15				
\$			回				
>			ᄪ	Credit Multipliers:	None		
				# Supply Retu	rn Air Handler	Sunnly	Sunnly
		Area OH Length OH Hght Units	1 ~	Location Loca			Supply Length
	1 Double Clear N 2 Double Clear E	12.0 ft ² 1.0 ft 6.0 ft 2 9.0 ft ² 1.0 ft 1.0 ft 1	lμ	1 Uncond. Unco	ond. Garage	6.0	150.0 ft
	2 Double Clear E 3 Double Clear S	15.0 ft ² 1.0 ft 7.0 ft 2	일				
			DUCTS				
			-	Credit Multipliers:	None		
				# System Type	EF Cap.	Conservation T	ype Con. EF
			WATER	1 Electric Resista		None	0.00
			ΙĒ	Liconio recolore	0.00	710110	0.00
			Ι≤				
			5				
m				# Use Default	Annual Opera	ting Cost Elect	ric Rate
WINDOWS			6	1 Yes	N/A	N/A	
O			耳				
9			REFR				
€			, bales				
>							
- 1							
			l				
	Rater Name: C	CodeOnlyPro Class # :		3		Pool Size: 0	
			De:	3 N/A			
SC	Rater Certification #: C	CodeOnlyPro Duct Leakage Typ		N/A		Pump Size: 0	.00 hp
MISC	Rater Certification #: C Area Under Fluorescent: 0	CodeOnlyPro Duct Leakage Typ 0.0 Visible Duct Disco	onnec	N/A cts: N/A		Pump Size: 0. Dryer Type: E	.00 hp lectric
MISC	Rater Certification #: C	CodeOnlyPro Duct Leakage Typ 0.0 Visible Duct Disco 1520.0 Leak Free Duct Sy	onned ystem	N/A cts: N/A Proposed: No		Pump Size: 0	.00 hp lectric

Residential System Sizing Calculation

DAN ZWICKEL

Summary Project Title: ZWICKEL RES.

Code Only Professional Version Climate: North

LAKE CITY, FL 32055-

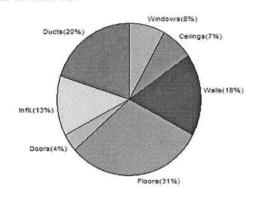
9/9/2008

Location for weather data: Jacks	onville - De	faults: Lati	tude(30) Altitude(26 ft.) Temp Ran	ge(M)	
Humidity data: Interior RH (50%) Outdoor	wet bulb (7	7F) Humidity difference(53gr.)		
Winter design temperature	32	F	Summer design temperature	93	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	38	F	Summer temperature difference	18	F
Total heating load calculation	25648	Btuh	Total cooling load calculation	27959	Btuh
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	117.0	30000	Sensible (SHR = 0.75)	97.8	22500
Heat Pump + Auxiliary(10.0kW)	250.0	64130	Latent	151.6	7500
			Total (Electric Heat Pump)	107.3	30000

WINTER CALCULATIONS

Winter Heating Load (for 1520 sqft)

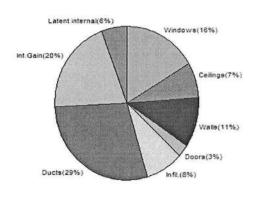
Load component			Load	
Window total	63	sqft	2083	Btuh
Wall total	1250	sqft	4504	Btuh
Door total	74	sqft	978	Btuh
Ceiling total	1520	sqft	1839	Btuh
Floor total	176	sqft	7869	Btuh
Infiltration	77	cfm	3217	Btuh
Duct loss			5158	Btuh
Subtotal			25648	Btuh
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			25648	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 1520 sqft)

Load component			Load	
Window total	63	sqft	4598	Btuh
Wall total	1250	sqft	2962	Btuh
Door total	74	sqft	746	Btuh
Ceiling total	1520	sqft	2082	Btuh
Floor total			0	Btuh
Infiltration	41	cfm	802	Btuh
Internal gain			5650	Btuh
Duct gain			6173	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Total sensible gain			23012	Btuh
Latent gain(ducts)			1887	Btuh
Latent gain(infiltration)			1460	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occ	upants/othe	r)	1600	Btuh
Total latent gain			4946	Btuh
TOTAL HEAT GAIN			27959	Btuh



Version 8 For Florida residences only EnergyGauge® System Size PREPARED BY:

EnergyGauge® FLRCPB v4.5.2

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

DAN ZWICKEL

Project Title: ZWICKEL RES.

Professional Version

LAKE CITY, FL 32055-

Climate: North

Reference City: Jacksonville (Defaults) Winter Temperature Difference: 38.0 F This calculation is for Worst Case. The house has been rotated 270 degrees.

9/9/2008

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	W	24.0	33.1	793 Btuh
2	2, Clear, Metal, 0.87	N	9.0	33.1	298 Btuh
3	2, Clear, Metal, 0.87	E	30.0	33.1	992 Btuh
	Window Total		63(sqft)		2083 Btuh
Walls	Туре	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	11.0	960	3.6	3459 Btuh
2	Frame - Wood - Adj(0.09)	11.0	290	3.6	1045 Btuh
	Wall Total		1250		4504 Btuh
Doors	Туре		Area X	HTM=	Load
1	Insulated - Exterior		21	13.3	279 Btuh
2	Insulated - Exterior		35	13.3	466 Btuh
3	Insulated - Adjacent		18	13.3	233 Btuh
	Door Total		74		978Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/L/Shin	30.0	1520	1.2	1839 Btuh
	Ceiling Total		1520		1839Btuh
Floors	Туре	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	175.5 ft(p)	44.8	7869 Btuh
	Floor Total		176		7869 Btuh
			Envelope Si	ubtotal:	17274 Btuh
Infiltration	Туре	ACH X Vol	ume(cuft) walls(sqf	ft) CFM=	
	Natural	0.38	12160 1250	77.0	3217 Btuh
Ductload			(D	LM of 0.252)	5158 Btuh
All Zones		Sen	sible Subtotal A	II Zones	25648 Btuh

WHOLE HOUSE TOTALS

Subtotal Sensible	25648 Btuh
Ventilation Sensible	0 Btuh
Total Btuh Loss	25648 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)
Project Title:

DAN ZWICKEL

ZWIĆKEL RES.

Code Only Professional Version

Climate: North

LAKE CITY, FL 32055-

9/9/2008

EQUIPMENT

1. Electric Heat Pump/Split

ICP #WCH3302(Outside)ICP #WAHM302(Insi

30000 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)



Version 8 For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details Project Title: Code C

DAN ZWICKEL

ZWIĆKEL RES.

Professional Version Climate: North

LAKE CITY, FL 32055-

Reference City: Jacksonville (Defaults) Winter Temperature Difference: 38.0 F This calculation is for Worst Case. The house has been rotated 270 degrees.

9/9/2008

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	W	24.0	33.1	793 Btuh
2	2, Clear, Metal, 0.87	N	9.0	33.1	298 Btuh
3	2, Clear, Metal, 0.87	E	30.0	33.1	992 Btuh
	Window Total		63(sqft)		2083 Btuh
Walls	Туре	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	11.0	960	3.6	3459 Btul
2	Frame - Wood - Adj(0.09)	11.0	290	3.6	1045 Btuh
	Wall Total		1250		4504 Btul
Doors	Туре		Area X	HTM=	Load
1	Insulated - Exterior		21	13.3	279 Btuh
2	Insulated - Exterior		35	13.3	466 Btuh
3	Insulated - Adjacent		18	13.3	233 Btuh
	Door Total		74		978Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/L/Shin	30.0	1520	1.2	1839 Btuh
	Ceiling Total		1520		1839Btuh
Floors	Туре	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	175.5 ft(p)	44.8	7869 Btuh
	Floor Total		176		7869 Btul
			Zone Envelope Su	ıbtotal:	17274 Btuh
Infiltration	Туре	ACH X Vo	lume(cuft) walls(sqf	t) CFM=	
	Natural	0.38	12160 1250	77.0	3217 Btul
Ductload	Average sealed, Supply(R6	.0-Attic), Retu	rn(R6.0-Attic) (D	LM of 0.252)	5158 Btul
Zone #1		25648 Btul			

WHOLE HOUSE TOTAL	S	
	Subtotal Sensible Ventilation Sensible Total Btuh Loss	25648 Btuh 0 Btuh 25648 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

DAN ZWICKEL

Project Title: ZWICKEL RES.

Code Only Professional Version

Climate: North

9/9/2008

LAKE CITY, FL 32055-

EQUIPMENT

1. Electric Heat Pump/Split ICP #WCH3302(Outside)ICP #WAHM302(Insi

30000 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)



Version 8 For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

DAN ZWICKEL

Project Title: ZWICKEL RES.

Professional Version Climate: North

LAKE CITY, FL 32055-

Reference City: Jacksonville (Defaults) Summer Temperature Difference: 18.0 F This calculation is for Worst Case. The house has been rotated 270 degrees.

9/9/2008

Component Loads for Whole House

	Type*		Over	hang	Wind	low Are	a(sqft)	H	ITM	Load	
Window	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2, Clear, 0.87, None,N,N	W	1ft.	6ft.	24.0	0.0	24.0	30	80	1925	Btuh
2	2, Clear, 0.87, None,N,N	N	1ft.	1ft.	9.0	0.0	9.0	30	30	267	Btuh
3	2, Clear, 0.87, None,N,N	E	1ft.	7ft.	30.0	0.0	30.0	30	80	2406	Btuh
	Window Total				63 (s					4598	Btuh
Walls	Туре		R-Va	alue/U	-Value	Area	ı(sqft)		HTM	Load	
1	Frame - Wood - Ext			11.0/			9.5		2.6	2467	Btuh
2	Frame - Wood - Adj			11.0/	0.09		0.0		1.7	495	Btuh
	Wall Total					125	50 (sqft)			2962	Btuh
Doors	Туре					Area	(sqft)		HTM	Load	
1	Insulated - Exterior					2	1.0		10.1	213	Btuh
2	Insulated - Exterior					227	5.0		10.1	355	Btuh
3	Insulated - Adjacent						7.5		10.1	178	Btuh
	Door Total					7	74 (sqft)			746	Btuh
Ceilings	Type/Color/Surface		R-Va	alue		Area	(sqft)		HTM	Load	
1	Vented Attic/Light/Shingle			30.0		153	20.0		1.4	2082	Btuh
	Ceiling Total					152	20 (sqft)			2082	Btuh
Floors	Туре		R-Value			S	ize		HTM	Load	
1	Slab On Grade			0.0		1	76 (ft(p))		0.0	0	Btuh
	Floor Total					175	.5 (sqft)			0	Btuh
						E	invelope	Subtota	l:	10388	Btuh
nfiltration	Type		Α	CH	Volum	e(cuft)	wall area	a(saft)	CFM=	Load	
	SensibleNatural			0.20		12160	1250	,	77.0	802	Btuh
Internal			Occup	oants		Btuh/o	ccupant	-	Appliance	Load	
gain				5		X 23	The state of the s		4500	5650	Btuh
						S	ensible E	Envelope	e Load:	16840	Btuh
Duct load							(DG	M of 0.3	67)	6173	Btuh
						Se	nsible L	oad All	Zones	23012	Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

DAN ZWICKEL

Project Title: ZWIĆKEL RES. Code Only **Professional Version** Climate: North

LAKE CITY, FL 32055-

9/9/2008

WHOLE HOUSE TOTALS

	Sensible Envelope Load All Zones	16840	Btuh
	Sensible Duct Load	6173	Btuh
	Total Sensible Zone Loads	23012	Btuh
	Sensible ventilation	0	Btuh
	Blower	0	Btuh
Whole House	Total sensible gain	23012	Btuh
Totals for Cooling	Latent infiltration gain (for 53 gr. humidity difference)	1460	Btuh
	Latent ventilation gain	0	Btuh
	Latent duct gain	1887	Btuh
	Latent occupant gain (5 people @ 200 Btuh per person)	1000	Btuh
	Latent other gain	600	Btuh
	Latent total gain	4946	Btuh
	TOTAL GAIN	27959	Btuh

FOI	HENRA	I BIT
-()(IIPIV	IFNT

Central Unit	ICP #WCH3302	30000 Btuh

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

(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint) (U - Window U-Factor or 'DEF' for default)

(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R)) (ExSh - Exterior shading device: none(N) or numerical value)

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

(Ornt - compass orientation)



Version 8 For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details Project Title: Code C

DAN ZWICKEL

ZWIĆKEL RES.

Professional Version

Climate: North

LAKE CITY, FL 32055-

9/9/2008

Reference City: Jacksonville (Defaults) Summer Temperature Difference: 18.0 F This calculation is for Worst Case. The house has been rotated 270 degrees.

Component Loads for Zone #1: Main

	Type*		Over	hang	Wine	dow Area	a(sqft)	H	HTM	Load	
Window	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2, Clear, 0.87, None,N,N	W	1ft.	6ft.	24.0	0.0	24.0	30	80	1925	Btuh
2	2, Clear, 0.87, None,N,N	N	1ft.	1ft.	9.0	0.0	9.0	30	30	267	Btuh
3	2, Clear, 0.87, None,N,N	E	1ft.	7ft.	30.0	0.0	30.0	30	80	2406	1000 P 2000 Th
	Window Total				63 (8	sqft)				4598	Btuh
Walls	Туре		R-Va	alue/U	I-Value	Area	(sqft)		HTM	Load	
1	Frame - Wood - Ext			11.0/	0.09	959	9.5		2.6	2467	Btuh
2	Frame - Wood - Adj			11.0/	0.09	290			1.7	495	Btuh
	Wall Total					125	0 (sqft)			2962	Btuh
Doors	Туре					Area	(sqft)		HTM	Load	
1	Insulated - Exterior					21	.0		10.1	213	Btuh
2	Insulated - Exterior					35			10.1	355	Btuh
3	Insulated - Adjacent					17			10.1		Btuh
	Door Total					7	4 (sqft)			746	Btuh
Ceilings	Type/Color/Surface		R-Va	alue	Area(sqft)			HTM	Load		
1	Vented Attic/Light/Shingle			30.0		152	0.0		1.4	2082	Btuh
	Ceiling Total					152	0 (sqft)			2082	Btuh
Floors	Туре		R-Value		Size			HTM	Load		
1	Slab On Grade			0.0		17	'6 (ft(p))		0.0	0	Btuh
	Floor Total					175.	5 (sqft)		1579.3	0	Btuh
						Zo	one Env	elope Si	ubtotal:	10388	Btuh
nfiltration	Type		Α	СН	Volum	e(cuft) v	wall area	a(sqft)	CFM=	Load	
	SensibleNatural			0.20		12160	1250		40.5	802	Btuh
Internal			Occup	oants		Btuh/oc	cupant	-	Appliance	Load	
gain				5		X 23	0 +		4500	5650	Btuh
						Se	ensible E	Envelope	e Load:	16840	Btuh
Duct load	Average sealed, Supply	(R6.0-	Attic),	Retu	rn(R6.0	-Attic)		(DGM	of 0.367)	6173	Btuh
							Sensik	ole Zone	e Load	23012	Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

DAN ZWICKEL

Project Title: ZWICKEL RES.

Code Only Professional Version Climate: North

6173 Btuh

27959 Btuh

9/9/2008

LAKE CITY, FL 32055-

WHOLE HOUSE TOTALS Sensible Envelope Load All Zones 16840 Btuh

Sensible Duct Load

Whole House Totals for Cooling

Total Sensible Zone Loads 23012 Btuh Sensible ventilation 0 Btuh Blower 0 Btuh Total sensible gain 23012 Btuh Latent infiltration gain (for 53 gr. humidity difference) 1460 Btuh Latent ventilation gain 0 Btuh Latent duct gain 1887 Btuh Latent occupant gain (5 people @ 200 Btuh per person) 1000 Btuh Latent other gain 600 Btuh Latent total gain 4946 Btuh

EQUIPMENT		
1. Central Unit	ICP #WCH3302	30000 Btuh

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

(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)

TOTAL GAIN

(U - Window U-Factor or 'DEF' for default)

(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))

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

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

(Ornt - compass orientation)



Version 8 For Florida residences only

Page 2

Residential Window Diversity

MidSummer

Project Title: ZWICKEL RES.

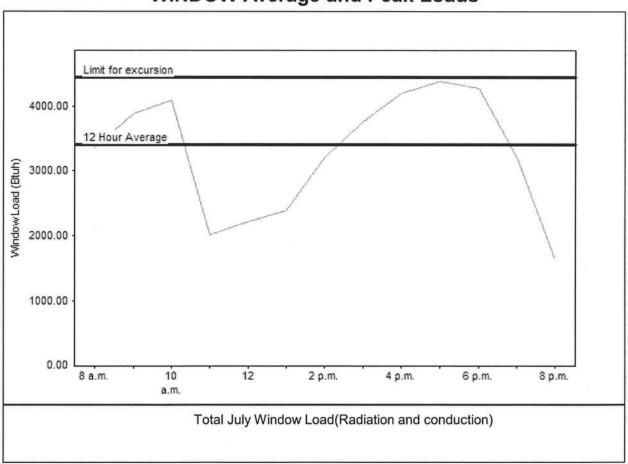
Code Only Professional Version Climate: North

9/9/2008

DAN ZWICKEL LAKE CITY, FL 32055-

Weather data for: Jacksonville - De	faults			
Summer design temperature	93	F	Average window load for July	3414 Btuh
Summer setpoint	75	F	Peak window load for July	4375 Btuh
Summer temperature difference	18	F	Excusion limit(130% of Ave.)	4438 Btuh
Latitude	30	North	Window excursion (July)	None

WINDOW Average and Peak Loads



The midsummer window load for this house does not exceed the window load excursion limit. This house has adequate midsummer window diversity.

EnergyGauge® System Sizing for Florida residences only

REPARED BY:

EnergyGauge® FLRCPB v4.5.2



David M. Winsberg, P.E.

PO Box 2815, Lake City, FL 32056 - Phone 386-752-1895 - Email davidwinsberg@bellsouth.net

Finish Floor Elevation Requirement\Exemption

Client:

Will Myers

Contractor:

Michael Medders

Description:

Zwickel Residence for Building Permit #27390

Parcel ID#:

06-6S-17-09617-109

Foundation Requirements:

For protection against water damage during the 100 year storm event, the minimum finish floor elevation of the proposed structure shall be 12 inches above the existing ground at any point along the perimeter of the proposed structure. In no case shall the finish floor elevation be more than 12 inches below the centerline of the adjacent roadway.

The ground around the proposed structure shall be graded such as to convey all stormwater runoff away from the proposed structure.

Please note that this certification letter also serves as a request for exemption from the elevation requirements for areas where no base flood data has been provided. This is because the above elevations are based on an engineering analysis of flood hazards at the structure's current location, approximately +/-80 feet South from the adjacent graded road.

Vinsley

David M. Winsberg

P.E. License Number: 68463

October 16, 2008

David Windey Oct 15,2008

27390

WILLIAM N. KITCHEN

PROFESSIONAL SURVEYOR AND MAPPER 152 N. MARION AVENUE LAKE CITY, FLORIDA 32055 PHONE (386) 755-7786 FAX (386) 755-5506 E-MAIL BSSK@BELLSOUTH.NET



DATE: 10/16/2008

TO WHOM IT MAY CONCERN:

RE: DAN ZWICKEL

SUBJECT **Parcel:** 06-6S-17-09617-109, LOT 9, MEADOWLANDS, NO. 760 SW MEADOWLAND DRIVE, LAKE CITY, FL. 32024

IS NOT IN A FLOOD ZONE ACCORDING TO FEMA FLOOD INSURANCE RATE MAP NO. 120070 0225 B DATED JANUARY 6, 1988.

THE TOP OF FORMS ARE 7 INCHES BELOW THE CENTERLINE OF ADJACENT PLATTED PAVED ROAD.

THE TOP OF FORMS ARE 12 INCHES ABOVE THE EXSITING GROUND AT ANY POINT.

REFERENCE; RESIDENTAIL FINISH FLOOR ELEVATION LETTER PER DAVID M. WINSBERG, P.E., DATED OCTOBER 16, 2008,

THANK YOU

WILLIAM N. KITCHEN PSM # 5490

David M. Winsberg, P.E.

PO Box 2815, Lake City, FL 32056 - Phone 386-752-1895 - Email davidwinsberg@bellsouth net

Finish Floor Elevation Requirement\Exemption

Client:

Will Myers

Contractor:

Michael Medders

Description:

Zwickel Residence for Building Permit #27390

Parcel ID#:

06-68-17-09617-109

Foundation Requirements:

For protection against water damage during the 100 year storm event, the minimum finish floor elevation of the proposed structure shall be 12 inches above the existing ground at any point along the perimeter of the proposed structure. In no case shall the finish floor elevation be more than 12 inches below the centerline of the adjacent roadway.

The ground around the proposed structure shall be graded such as to convey all stormwater runoff away from the proposed structure.

Please note that this certification letter also serves as a request for exemption from the elevation requirements for areas where no base flood data has been provided. This is because the above elevations are based on an engineering analysis of flood hazards at the structure's current location, approximately +/-80 feet South from the adjacent graded road.

David M. Winsberg

P.E. License Number: 68463

October 16, 2008

David Winday Oct 15, 2008





ENGINEERING & TESTING LABORATORY

P.O. Box 1625, Lake City, FL 32056-1625 4784 Rosselle St. • Jacksonville, FL 32254 2230 Greensboro Hwy., Quincy, FL 32351 Lake City • (386) 755-3633

Fax • (386) 752-5456

Jacksonville • (904) 381-8901

Fax • (904) 381-8902

Quincy • (850) 442-3495 Fax • (850) 442-4008

JOB NO.: 08-523
DATE TESTED:

10-16-08

REPORT OF IN-PLACE DENSITY TEST

AS	TM METHOD:(D-2922) Nucle	lear(D-2937) Drive CylinderO								
PRO	PROJECT: Daniel Zwirhel Residence farmit # 0000 27390)									
	ELIENT: Daniel Zwickel									
GEN	NERAL CONTRACTOR:N/A	EARTHW	ORK CON	ITRACTOR:	Bubbas	SitePa	rep			
SOIL	L USE (SEE NOTE): 1 - Statembourde	SPECIFIC	ATION RI	EQUIREMEN	ITS: 95°	10	,			
TEC	HNICIAN: C. Day	1	Oq.							
MOE	DIFIED (ASTM D-1557):	STANDAR	D (ASTM	D-698):						
TEST NO.	TEST LOCATION	TEST:DEPTHELEVLIFT	PROCTOR NO.	WET DENS. LBS.CU.FT.	DRY DENS. LBS.CU.FT.	MOIST PERCENT	% MAX. DENS.			
1	wath and approx. center 15's.	12"	*	108.6	102.7	5.8	96			
	from parch form ibroards.						0.0			
2	5. E. Corner 10 W x 8' N.	12"	¥	110.0	104.6	5.2	98			
3	S.W. Camer 15'Ex 6'N.	12"	A	106.8	102.6	4.1	96			
			1		1 2 2					
					7					
REM	ARKS:									
PRO	OCTOR NO. SOIL DESCRIPTION			PROCTOR	R VALUE	OPT	MOIST.			
		rnee Valley hit 106.5								
				-						
NOTE	: 1. Building Fill 2. Trench Backfill 3. Base Course 4. Subbase/Sta	bilized Subgra	de 5. Emba	nkment 6. Subo	rade/Natural S	Soil 7 Other				

NOTE: 1. Building Fill 2. Trench Backfill 3. Base Course 4. Subbase/Stabilized Subgrade 5. Embankment 6. Subgrade/Natural Soil 7. Other The test results presented in this report are specific only to the samples tested at the time of testing. The tests were performed in accordance with generally accepted methods and standards. Since material conditions can vary between test location and change with time, sound judgement should be exercised with regard to the use and interpretation of the data.

COLUMBIA COUNTY BUILDING DEPARTMENT RESIDENTIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST FOR THE FLORIDA RESIDENTIAL BUILDING CODE 2004 with 2005 & 2006 Supplements and One (1) and Two (2) Family Dwellings

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

ALL BUILDING PLANS MUST INDICATE COMPLIANCE with the Current FLORIDA BUILDING CODES and the Current FLORIDA RESIDENTIAL CODE. ALL PLANS OR DRAWING SHALL PROVIDED CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION FOR ONE-AND-TWO FAMILY DWELLINGS.

FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEEDS ARE PER FIGURE R301.2(4) of the Residential Code (Florida Wind speed map) SHALL BE USED.

WIND SPEED LINE SHALL BE DEFINED AS FOLLOWS: THE CENTERLINE OF INTERSTATE 75.

- 1. ALL BUILDINGS CONSTRUCTED EAST OF SAID LINE SHALL BE ----- 100 MPH
- 2. ALL BUILDINGS CONSTRUCTED WEST OF SAID LINE SHALL BE ------110 MPH
- 3. NO AREA IN COLUMBIA COUNTY IS IN A WIND BORNE DEBRIS REGION

GENERAL REQUIREMENTS;

- Two (2) complete sets of plans containing the following:
 - All drawings must be clear, concise and drawn to scale, details that are not used shall be marked void Condition space (Sq. Ft.) and total (Sq. Ft.) under roof shall be shown on the plans.
- Designers name and signature shall be on all documents and a licensed architect or engineer, signature and official embossed seal shall be affixed to the plans and documents per FBC 106.1.

Site Plan information including:

- Dimensions of lot or parcel of land
 - Dimensions of all building set backs
- Location of all other structures (include square footage of structures) on parcel, existing or proposed well and septic tank and all utility easements.
- Provide a full legal description of property.

Wind-load Engineering Summary, calculations and any details required:

- Plans or specifications must meet state compliance with FRC Chapter 3
- The following information must be shown as per section FRC
 - Basic wind speed (3-second gust), miles per hour
 - Wind importance factor and nature of occupancy
- Wind exposure if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated
- The applicable internal pressure coefficient, Components and Cladding The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component and cladding materials not specifally designed by the registered design professional.

Elevations Drawing including:

- All side views of the structure
- Roof pitch
 - Overhang dimensions and detail with attic ventilation
- Location, size and height above roof of chimneys
 - Location and size of skylights with Florida Product Approval
- Number of stories
 - e) Building height from the established grade to the roofs highest peak

Floor Plan including:

- Dimensioned area plan showing rooms, attached garage, breeze ways, covered porches, deck, bałconies and raised floor surfaces located more than 30 inches above the floor or grade
- All exterior and interior shear walls indicated
- Shear wall opening shown (Windows, Doors and Garage doors
- Emergency escape and rescue opening in each bedroom (net clear opening shown)

Safety glazing of glass where needed

- Fireplaces types (gas appliance) (vented or non-vented) or wood burning with Hearth (see chapter 10 of FRC)
- Stairs with dimensions (width, tread and riser and total run) details of guardrails, Handrails (see FRC 311)
- Plans must show and identify accessibility of bathroom (see FRC 322)

All materials placed within opening or onto/into exterior shear walls, soffits or roofs shall have Florida product approval number and mfg. installation information submitted with the plans (see Florida product approval form)

Foundation Plans Per FRC 403:

- a) Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.
 - b) All posts and/or column footing including size and reinforcing
- c) Any special support required by soil analysis such as piling.
- d) Assumed load-bearing valve of soil 2500 (psf)
- e) Location of horizontal and vertical steel, for foundation or walls (include # size and type)

CONCRETE SLAB ON GRADE Per FRC R506

- Show Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)
- Show control joints, synthetic fiber reinforcement or welded fire fabric reinforcement and Supports

PROTECTION AGAINST TERMITES Per FRC 320:

Indicate on the foundation plan if soil treatment is used for subterranean termite prevention or submit other approved termite protection methods. Protection shall be provided by registered termiticides

Masonry Walls and Stem walls (load bearing & shear Walls) FRC Section R606

Show all materials making up walls, wall height, and Block size, mortar type

Show all Lintel sizes, type, spans and tie-beam sizes and spacing of reinforcement

Metal frame shear wall and roof systems shall be designed, signed and sealed by Florida Prof. Engineer or Architect

Floor Framing System: First and/or second story

- Floor truss package shall including layout and details, signed and sealed by Florida Registered Professional Engineer
- Show conventional floor joist type, size, span, spacing and attachment to load bearing walls, stem walls and/or priers
- Girder type, size and spacing to load bearing walls, stem wall and/or priers
- Attachment of joist to girder
- Wind load requirements where applicable
- Show required under-floor crawl space
- Show required amount of ventilation opening for under-floor spaces
- Show required covering of ventilation opening.
- Show the required access opening to access to under-floor spaces
- Show the sub-floor structural panel sheathing type, thickness and fastener schedule on the edges & intermediate of the areas structural panel sheathing
- Show Draft stopping, Fire caulking and Fire blocking
- Show fireproofing requirements for garages attached to living spaces, per FRC section R309
- Provide live and dead load rating of floor framing systems (psf).

WOOD WALL FRAMING CONSTRUCTION FRC CHAPTER 6

- Stud-type, grade, size, wall height and oc spacing for all load bearing or shear walls.
 - Fastener schedule for structural members per table R602.3 (1) are to be shown.
- Show wood structural panel's sheathing attachment to studs, joist, trusses, rafters and structural members, showing fastener schedule attachment on the edges & intermediate of the areas structural panel sheathing
- Show all required connectors with a max uplift rating and required number of connectors and oc spacing for continuous connection of structural walls to foundation and roof trusses or rafter systems.
- Show sizes, type, span lengths and required number of support jack studs, king studs for shear wall opening and girder or header per FRC Table R502.5 (1)
- Indicate where pressure treated wood will be placed.
- Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing edges & intermediate areas
- A detail showing gable truss bracing, wall balloon framing details or and wall hinge bracing detail

ROOF SYSTEMS:

- Truss design drawing shall meet section FRC R802.10 Wood trusses. Include a layout and truss details and be signed and sealed by Fl. Pro. Eng.
- Show types of connector's assemblies' and resistance uplift rating for all trusses and rafters
- Show gable ends with rake beams showing reinforcement or gable truss and wall bracing details
- Provide dead load rating of trusses

Conventional Roof Framing Layout Per FRC 802:

- Rafter and ridge beams sizes, span, species and spacing
- Connectors to wall assemblies' include assemblies' resistance to uplift rating.
- Valley framing and support details
- Provide dead load rating of rafter system.

ROOF SHEATHING FRC Table R602,3(2) FRC 803

Include all materials which will make up the roof decking, identification of structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing on the edges & intermediate areas

ROOF ASSEMBLIES FRC Chapter 9

Include all materials which will make up the roof assembles covering; with Florida Product Approval numbers for each component of the roof assembles covering.

FCB-Chapter 13 Florida Energy Efficiency Code for Building Construction

- Residential construction shall comply with this code by using the following compliance methods in the FBC Subchapter 13-6, Residential buildings compliance methods. Two of the required forms are to be submitted, showing dimensions condition area equal to the total condition living space area
- Show the insulation R value for the following areas of the structure: Attic space, Exterior wall cavity and Crawl space (if applicable)

HVAC information shown

- Manual J sizing equipment or equivalent computation
- Exhaust fans locations in bathrooms

Plumbing Fixture layout shown

All fixtures waste water lines shall be shown on the foundation plan

Electrical layout shown including:

- Switches, outlets receptacles, lighting and all required GFCI outlets identified
- Ceiling fans
- Smoke detectors
- Service panel, sub-panel, location(s) and total ampere ratings

- On the electrical plans identify the electrical service overcurrent protection device for the main electrical service. This device shall be installed on the exterior of structures to serve as a disconnecting means for the utility company electrical service. Conductors used from the exterior disconnecting means to a panel or sub panel shall have four-wire conductors, of which one conductor shall be used as an equipment ground. Indicate if the utility company service entrance cable will be of the overhead or underground type.
- Appliances and HVAC equipment and disconnects
- o Arc Fault Circuits (AFCI) in bedrooms
- Notarized Disclosure Statement for Owner Builders
- Notice of Commencement Recorded (in the Columbia County Clerk Office) <u>Notice</u>
 <u>Of Commencement is required to be filed with the building department Before Any</u>
 <u>Inspections Will Be Done.</u>

Private Potable Water

- Size of pump motor
- Size of pressure tank
- Cycle stop valve if used

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

- Building Permit Application: A current Building Permit Application form is to be completed and submitted for all residential projects.
- Parcel Number: The parcel number (Tax ID number) from the Property Appraiser (386) 758-1084 is required. A copy of property deed is also requested.
- Environmental Health Permit or Sewer Tap Approval: A copy of the Environmental Health permit,
 existing septic approval or sewer tap approval is required before a building permit can be issued. (386)
 758-1058 (Toilet facilities shall be provided for construction workers)
- <u>City Approval:</u> If the project is to be located within the city limits of the Town of Fort White, prior approval is required. The Town of Fort White approval letter is required to be submitted by the owner or contractor to this office when applying for a Building Permit. (386) 497-2321
- Flood Information: All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting application to this office. Any project located within a flood zone where the base flood elevation (100 year flood) has been established shall meet the requirements of Section 8.8 of the Columbia County Land Development Regulations. Any project located within a flood zone where the base flood elevation has not been established (Zone A) shall meet the requirements of Section 8.7 of the Columbia County Land Development Regulations. CERTIFIED FINISHED FLOOR ELEVATIONS WILL BE REQUIRED ON ANY PROJECT WHERE THE BASE FLOOD ELEVATION (100 YEAR FLOOD) HAS BEEN ESTABLISHED. A development permit will also be required. The permit cost is \$50.00.
- <u>Driveway Connection:</u> If the property does not have an existing access to a public road, then an application for a culvert permit (\$25.00) must be made. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver (\$50.00). All culvert waivers are sent to the Columbia County Public Works Department for approval or denial.
- 911 Address: If the project is located in an area where the 911 address has been issued, then the proper Paper work from the 911 Addressing Departments must be submitted. (386) 758-1125

ALL REQUIRED INFORMATION IS TO BE SUBMITTED FOR REVIEW. NOTIFICATION WILL BE GIVEN WHEN THE APPLICATION AND PLANS ARE APPROVED AND READY TO PERMIT.

PRODUCT APPROVAL SPECIFICATION SHEET

Location: Project Name:					
product approval number(s) which you are applying for a	on the building comp a building permit or the product approve	da Administrative Code 9B-72, please pronents listed below if they will be utilized or after April 1, 2004. We recommend number for any of the applicable listed at	ed on the construction project for end you contact your local produc		
Category/Subcategory	Manufacturer	Product Description	Approval Number(s)		
A. EXTERIOR DOORS		1			
1. Swinging					
2. Sliding					
3. Sectional					
4. Roll up					
5. Automatic					
6. Other					
B. WINDOWS					
Single hung					
Horizontal Slider					
3. Casement					
Double Hung					
5. Fixed					
6. Awning					
7. Pass-through					
8. Projected					
9. Mullion					
10. Wind Breaker					
11 Dual Action					
12. Other					
C. PANEL WALL					
1. Siding					
2. Soffits					
3. EIFS 4. Storefronts					
	_				
5. Curtain walls					
6. Wall louver 7. Glass block					
8. Membrane					
9. Greenhouse					
10. Other	-				
D. ROOFING PRODUCTS					
Asphalt Shingles	 				
Underlayments					
Roofing Fasteners					
Non-structural Metal R	f				
Built-Up Roofing					
Modified Bitumen	 				
7. Single Ply Roofing Sys	+				
8. Roofing Tiles	+				
Roofing Insulation					
10. Waterproofing	-				
11. Wood shingles /shake	S				
12. Roofing Slate					

02/02/04 - 1 of 2

Category/Subcategory (cont.)	Manufacturer	Product Description	Approval Number(s)
13. Liquid Applied Roof Sys			
14. Cements-Adhesives –			
Coatings			
15. Roof Tile Adhesive			
 Spray Applied Polyurethane Roof 	s.		
17. Other			
E. SHUTTERS			
1. Accordion			
2. Bahama			
3. Storm Panels			
4. Colonial			
5. Roll-up			
6. Equipment			
7. Others			
F. SKYLIGHTS			
1. Skylight			
2. Other			
G. STRUCTURAL			
COMPONENTS			
Wood connector/anchor			
2. Truss plates			
Engineered lumber			
4. Railing			
5. Coolers-freezers			
6. Concrete Admixtures			
7. Material			
8. Insulation Forms			
9. Plastics			
10. Deck-Roof			
11. Wall			
12. Sheds			
13. Other			
H. NEW EXTERIOR			
ENVELOPE PRODUCTS			
1.			
2.			
time of inspection of these pr jobsite; 1) copy of the produc and certified to comply with, 3	roducts, the follo ct approval, 2) th 3) copy of the ap	te product approval at plan review wing information must be available performance characteristics who policable manufacturers installation removed if approval cannot be de	le to the inspector on the nich the product was tested on requirements.
Contractor or Contractor's Authorized	Agent Signature	Print Name	Date
ocation		Description of the control of the co	EF LICE ONLY
_ocation		Permit # (FOR STA	FF USE ONLY)

02/02/04 - 2 of 2

Website:

Effective April 1. 2004

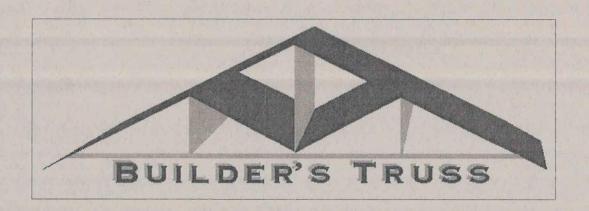
PRODUCT APPROVAL SPECIFICATION SHEET

Location: 16 SW MemutoMi Dn Project Name:

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and the product approval number(s) on the building components listed below if they will be utilized on the construction project for which you are **applying for a building permit on or after April 1, 2004**. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. More information about statewide product approval can be obtained at www.floridabuilding.org

Ca	ategory/Subcategory	Manufacturer	Product Description	Approval Number(s)
	EXTERIOR DOORS	MI PRODUCTS	EUTENION SWINGIBL	7628.1
	1. Swinging	MI PRODUCTS	SCIDER	8767.1
	2. Sliding			
	3. Sectional	CLOPAY GARAGE	GARAGE DOOR	3026.15
	4. Roll up			
	5. Automatic			
	6. Other			
В.	WINDOWS			
	Single hung	KINCO	ALUMIN. FIN WINDOW S'/IT	123.2
	2. Horizontal Slider			
	3. Casement			
	4. Double Hung			51
	5. Fixed			
	6. Awning			
	7. Pass -through			
	8. Projected	77-100-2-100-		
	9. Mullion			
	10. Wind Breaker			
	11 Dual Action			
	12. Other			
C.	PANEL WALL			
	1. Siding	KAY CAN LTD	VINYL SIDING	4965.2
	2. Soffits	KAYCAN LTO	SOFEITS	4899 16
	3. EIFS	<i>t</i> -		
	4. Storefronts			
	5. Curtain walls			
	6. Wall louver			
	7. Glass block			
	8. Membrane			
	9. Greenhouse			
	10. Other			
D.	ROOFING PRODUCTS			
	Asphalt Shingles	CERTAINTECTS	SHINGLOS	5444.1
	2. Underlayments		TV RU	
	Roofing Fasteners		COUNTROL	940
	4. Non-structural Metal Rf		Receiv Receiv	evol
	5. Built-Up Roofing		10r	10
	Modified Bitumen		BILLE CO) PV 3
	7. Single Ply Roofing Sys		(c) Code	The state of the s
	8. Roofing Tiles		Yompliano	15/
	Roofing Insulation			
	10. Waterproofing		NS EXAMIN	
	11. Wood shingles /shakes			
	12. Roofing Slate			

Category/Subcategory (cont.)	Manufacturer	Product Description		Approval Number(s
13. Liquid Applied Roof Sys				
14. Cements-Adhesives – Coatings				
15. Roof Tile Adhesive				
16. Spray Applied Polyurethane Roof				
17. Other				
E. SHUTTERS				
1. Accordion				
2. Bahama				
3. Storm Panels				
4. Colonial				
5. Roll-up				
6. Equipment				
7. Others				
F. SKYLIGHTS				
1. Skylight				
2. Other				
G. STRUCTURAL				
COMPONENTS				
 Wood connector/anchor 	SIMPSON	HZ.5/H165		503.5
2. Truss plates				
Engineered lumber				
4. Railing				
Coolers-freezers				
Concrete Admixtures				
7. Material				
8. Insulation Forms				
9. Plastics		: 4		
10. Deck-Roof				
11. Wall				
12. Sheds				
13. Other				
H. NEW EXTERIOR				
ENVELOPE PRODUCTS				
1,				
2.				
The products listed below did ime of inspection of these pobsite; 1) copy of the product and certified to comply with, understand these products	roducts, the folloct approval, 2) the 3) copy of the a	owing information must la ne performance charact pplicable manufacturers	pe available to the peristics which the peristics installation require	nspector on the roduct was teste ments.
				Ompliance VS EXAMILER
Muhael Medden		MICH	AET MEDDER	5 9-12-0
Contractor or Contractor's Authorized 760 SW MEADOWCO	Agent Signature	Print Nar	me	Date
ocation LANG CITY PC		Permit #	FOR STAFF USE (ONLY)
02/02/04 - 2 of 2	/	and the perpendicular		Effective April 1, 2



Builders Truss Manufacturing

1506 Bedell Avenue, Woodbine, Ga (800) 443-9652 (F) 912-729-2284

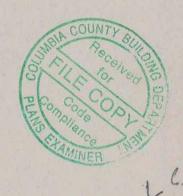
Job No. 11783

Company: Amelia Jewel Custom Home Job Name: Lot 9 Meadowlands S. D. P

Phone Number: (904) 696-9708

TRUSS ENGINEERING PACKET

SEALED ENGINEERING





RE: 11783 - Amelia Jewel; L9 Meadowlands

MiTek Industries, Inc.

14515 North Outer Forty Drive

Suite 300

Chesterfield, MO 63017-5746

Site Information:

Project Customer: Amelia Jewel Inc Project Name: L9 Medowlands Subdivision: Meadowlands PI Lot/Block: 9

Address:

City: Columbia County

State: FL

Name Address and License # of Structural Engineer of Record, If there is one, for the building.

Name: License #:

Address:

State: City:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: FBC2004/TPI2002

Design Program: MiTek 20/20 6.5

No.

18

19

20

21

22

Wind Code: ASCE 7-02 Wind Speed: 120 mph

Floor Load: N/A psf

J01

J03

J05

J07

JC09

Roof Load: 50.0 psf

This package includes 22 individual, dated Truss Design Drawings and 0 Additional Drawings. With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules. This document processed per section 16G15-23.003 of the Florida Board of Professionals Rules

Seal#

114424976

114424977

114424978

114424979

114424980

No.	Seal#	Truss Name Date	
1	114424959	A01	8/26/08
2	114424960	A02	8/26/08
3	114424961	A02A	8/26/08
4	114424962	A03	8/26/08
5	114424963	A03A	8/26/08
6	114424964	A04	8/26/08
7	114424965	A04A	8/26/08
8	114424966	A05	8/26/08
9	114424967	A05A	8/26/08
10	114424968	A06	8/26/08
11	114424969	A06A	8/26/08
12	114424970	A07	8/26/08
13	114424971	A07A	8/26/08
14	114424972	B01	8/26/08
15	114424973	B01A	8/26/08
16	114424974	C01	8/26/08
17	114424975	C01A	8/26/08

FRANK JOHOLAS BON ASSOCIATES, OF CONSULTING ENGINEER ENGINEERING SUPPORT TO THE CONSTRUCTION INDUSTAPPROVED AS 5201 ATLANTIC BIND #119 JACKSONVILLE (12)2207 OFFICE 1904) 896-0894 FAX an (904) 290

Truss Name

Date

8/26/08

8/26/08

8/26/08

8/26/08

8/26/08

REVIEWED BY FRANK HOLAS & ASSOC

O REJECTED - RESUBMIT

The truss drawing(s) referenced above have been prepared by MiTek Industries, Inc. under my direct supervision based on the parameters provided by Builders Truss Manufacturing.

Truss Design Engineer's Name: Fox. Steve

My license renewal date for the state of Florida is FEBRUARY 28, 2009.

NOTE: The seal on these drawings indicate acceptance of professional engineering responsibility solely for the truss components shown. The suitability and use of this component for any particular building is the responsibility of the building designer, per ANSI/TPI-1 Chapter 2.

Steven E. Fox, FL Lic #044975 14515 North Outer Forty Drive Suite 300 Chesterfield, MO 63017 FL Cert.#6634

August 26,2008

1 of 1

Fox, Steve

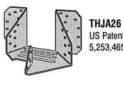
MULTIPLE TRUSS HANGERS

SIMPSON Strong-Tie

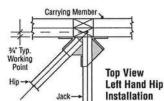
THJA26/LTHJA26

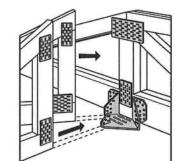
	Fasten	ers (Quantity &	Size)		
Model No.	Carrying	Carried Member			
	Member	Hip ¹	Jack		
THJA26	(20)162x3½	(6)148x11/2	(4)148x11/2		
LTHJA26	(20)148x3	(7)148x11/2	(4)148x11/2		

1. For the LTHJA26, one .148x1½ nail must be installed into the bottom of each hip through bottom of hanger seat.



US Patent 5,253,465

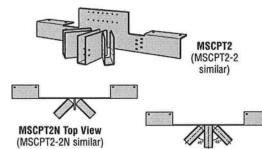




Typical THJA26 Installation (LTHJA26 Similar)

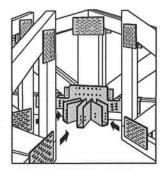
MSCPT

Model	Fasteners (Quantity & Size)		
No.	Carrying Member	Carried Member	
MSCPT2	(26)162x3½	(18)148x1½	
MSCPT2N	(26)162x31/2	(14)148x1½	
MSCPT2-2	(30)162x3½	(20)148x3	
MSCPT2-2N	(30)162x3½	(14)148x3	



MSCPT2 Top View (MSCPT2-2 similar)

LTHJA26 **US Patent** 5,253,465

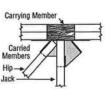


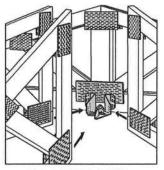
Typical MSCPT2 Installation

MTHM/MTHM-2

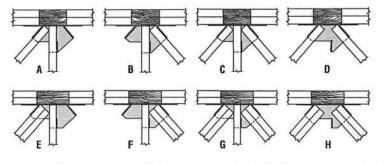
		2-Ply	Fasteners (Quantity & Size)		Size)
Detail	Model No.	Bottom Chord	Carrying Member	Carried Member	
				R/L Hip	Jack
		2x4	(22)162x31/2	(8)148x11/2	(4)148x11/2
A - B	МТНМ	2x6	(34)162x31/2	(8)148x11/2	(4)148x11/2
		2x8	(42)162x31/2	(8)148x1½	(4)148x11/2
	мтнм	2x4	(22)162x31/2	(16)148x11/2	(4)148x11/2
C		2x6	(34)162x3½	(16)148x11/2	(4)148x11/
		2x8	(42)162x31/2	(16)148x11/2	(4)148x11/
		2x4	(22)162x3½	(16)148x11/2	9 5
D	МТНМ	2x6	(34)162x3½	(16)148x11/2	-
		2x8	(42)162x31/2	(16)148x11/2	
	- F MTHM-2	2x4	(39)162x3½	(8)148x1½	(4)148x11/2
E-F		2x6	(47)162x31/2	(8)148x1½	(4)148x11/2
_	G MTHM-2	2x8	(39)162x31/2	(16)148x11/2	(4)148x11/2
G		2x4	(47)162x31/2	(16)148x11/2	(4)148x11/2
	H MTHM-2	2x6	(39)162x31/2	(16)148x11/2	-
н		2x8	(47)162x31/2	(16)148x11/2	

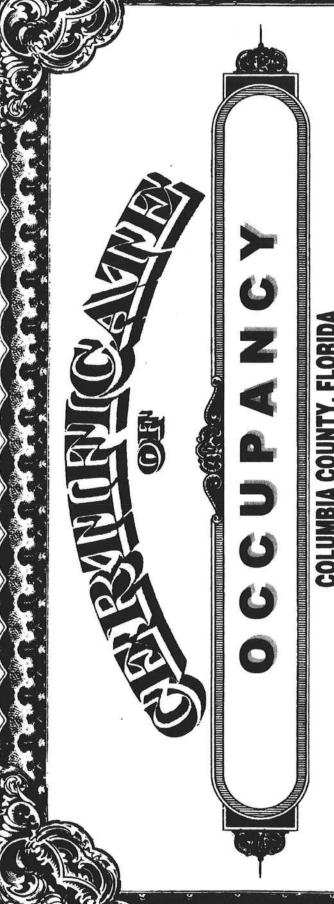






Typical MTHM Installation





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

Building permit No. 000027390

38.52

Fire:

accordance with the Columbia County Building Code.

Parcel Number 06-6S-17-09617-104

Use Classification SFD/UTILITY

Permit Holder MICHAEL MEDDERS

Owner of Building DANIEL ZWICKEL

760 SW MEADOWLANDS DR., LAKE CITY, FL Location:

Date: 04/13/2009

139.02

Total:

Waste: 100.50

Building Inspector

POST IN A CONSPICUOUS PLACE Business Places Only)

Notice of Treatment			
Applicator: Florida Pest Control & Chemical Co. (www.flapest.com) Address: 536 SE BAYA AVE City L. C. Phone 752 1703			
Site Location: Subdivision Meadow Lands Lot # 9 Block# Permit # 27370 Address			
Product used Active Ingredient % Concentration ☐ Premise Imidacloprid 0.1%			
☐ Termidor Fipronil 0.12% ☐ Bora-Care Disodium Octaborate Tetrahydrate 23.0%			
Type treatment:			
Area Treated Square feet Linear feet Z50			
As per Florida Building Code 104.2.6 – If soil chemical barrier method for termite prevention is used, final exterior treatment shall be completed prior to final building approval.			
If this notice is for the final exterior treatment, initial this line 10/22/08			
Remarks:			

Applicator - White Permit File - Canary Permit Holder - Pink

10/05

