Columbia County Building Permit Application

CK# 1195

Revised 9-23-04

For Office Use Only Application # 0605-87 Date Received 5-22-06 By LH Permit # 24590

Application Approved by - Zoning Official BLK Date 01.06.06 Plans Examiner OKSTH Date 6-3-05

Flood Zone X Development Permit N/A Zoning A-3 Land Use Plan Map Category A-3

Comments (Site plan on Drawings) Section 2.3.1 MH to be removed with in 30 days of C.O.

Have MH onsite - replacing with SFD

8-1-386-4

Fax 386-462-3457

Applicants Name Ronald Mack Robinson Jr. Phone 623-2404

Address 362 SW Sapling Glen, Lake City, Fl. 32024

Owners Name John A. Murray Jr. Phone 719-2538

911 Address 298 SW Dunlop Glen, Lake City, Fl. 32024

Contractors Name Ronald Mack Robinson Jr. Phone 623-2404

Address 362 SW Sapling Glen Lake City, Fl. 32024

Fee Simple Owner Name & Address John A Murray Jr. 298 SW Dunlop Glen, L.C.

Bonding Co. Name & Address N/A

Architect/Engineer Name & Address Mark Disosway

Mortgage Lenders Name & Address First Federal 1705 West US90 PO. Box 2029 Lake City, Fl. 32056

Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Energy

Property ID Number 2-09-5S-16-03498-213 Estimated Cost of Construction $198,000

Subdivision Name Oakfield Acres (Phase 2) Lot 13 Block ____ Unit ____ Phase 2

Driving Directions 47 South to Columbia City (R) on 240 go 1/2 mile left on Endicott then (R) on Dunlop. Then left into drive

Type of Construction New Construction Number of Existing Dwellings on Property 1

Total Acreage 4.71 Lot Size ____ Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 159' Side 160' Side 332' Rear 150'+

Total Building Height 22' Number of Stories 1 Heated Floor Area 2279 Roof Pitch 10/12

Porches 756 GARAGE 503 TOTAL 3538

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

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

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

Ronald Mack Robinson

Owner Builder or Agent (Including Contractor)

STATE OF FLORIDA
COUNTY OF COLUMBIA

NOTARY PUBLIC STATE OF FLORIDA
BRENDA MEADS
COMMISSION # DD420250
EXPIRES JUL 30 2009
BONDED THROUGH
RLI INSURANCE COMPANY

Sworn to (or affirmed) and subscribed before me this 22 day of May 2006.

Personally known ____ or Produced Identification ____

152-733-75-098-0

Ronald Mack Robinson

Contractor Signature

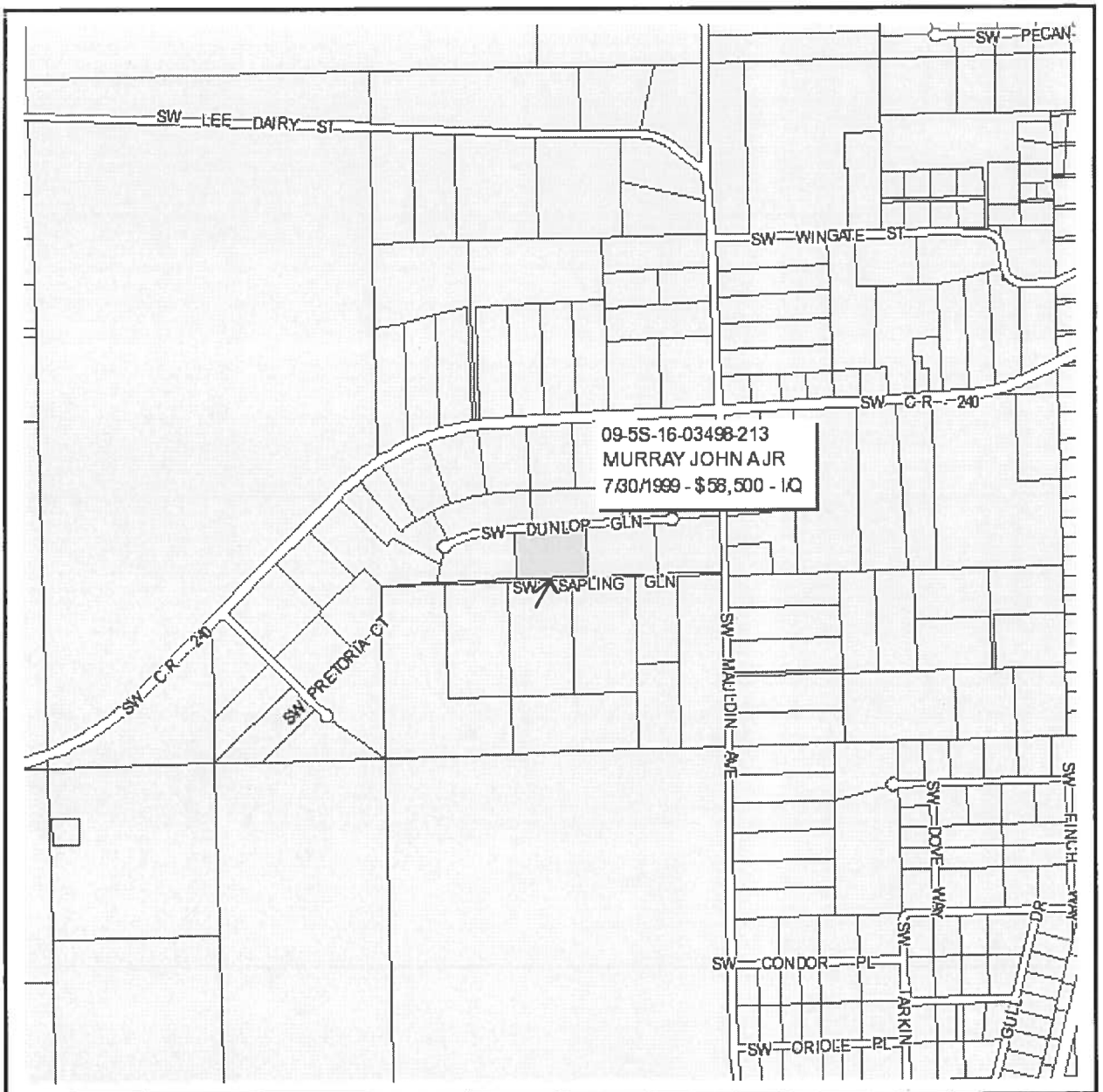
Contractors License Number CBC1253729

Competency Card Number ____

NOTARY STAMP/SEAL

Brenda Meads

Notary Signature

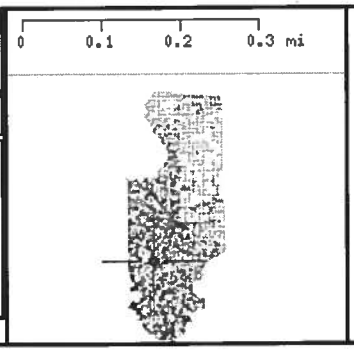


Columbia County Property Appraiser

J. Doyle Crews, CFA - Lake City, Florida - 386-758-1083

PARCEL: 09-5S-16-03498-213 HX - MOBILE HOM (000200)

Name:	MURRAY JOHN A JR	LandVal	$22,000.00
Site:	DUNLOP	BldgVal	$38,491.00
Mail:	298 SW DUNLOP GLN LAKE CITY, FL 32024	ApprVal	$74,311.00
		JustVal	$74,311.00
Sales Info	7/30/1999 $58,500.00 I / Q	Assd	$49,883.00
	8/15/1995 $14,000.00 V / Q	Exmpt	$25,000.00
	9/12/1994 $0.00 V / U	Taxable	$24,883.00



This information, GIS Map Updated: 5/5/2006, was derived from data which was compiled by the Columbia County Property Appraiser Office solely for the governmental purpose of property assessment. This information should not be relied upon by anyone as a determination of the ownership of property or market value. No warranties, expressed or implied, are provided for the accuracy of the data herein, it's use, or it's interpretation. Although it is periodically updated, this information may not reflect the data currently on file in the Property Appraiser's office. The assessed values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.

WARRANTY DEED
INDIVID. TO INDIVID

This Warranty Deed

Made the 30th *day of* July *A. D. 19* 99 *by*

Leonard E. Johnson and wife, Wanda K. Johnson

Documentary Stamp 409.50
Intangible Tax
P. DeWitt Cason
Clerk of Court
By D.C.

hereinafter called the grantor, to

John A. Murray, Jr. a single person

whose postoffice address is Rt. 18 Box 64 Lake City, FL 32024
hereinafter called the grantee:

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

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

Lot 13, OAKFIELD ACRES, Phase II, a subdivision according to the plat thereof, as recorded in plat Book 6, Pages 18-18A, Public Records of Columbia County, Florida.

Together with a 1996 OMNI Double-wide mobile home ID #047445A&B

BK 0885 PG 1762

OFFICIAL RECORDS 99-13419

FILED AND RECORDED IN PUBLIC RECORDS OF COLUMBIA COUNTY, FL
1999 AUG -4 PM 12:15
RECORD VERIFIED

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 convenants 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 co. , 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 accuring subsequent to December 31, 19* 98

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:

Michael H. Harrell

Karen Brown
KAREN BROWN

LEONARD E. JOHNSON

WANDA K. JOHNSON

STATE OF FLORIDA

COUNTY OF COLUMBIA

I HEREBY CERTIFY that on this day, before me, an officer duly authorized in the State aforesaid and in the County aforesaid to take acknowledgements, personally appeared
Leonard E. Johnson and wife, Wanda K. Johnson

to me known to be the person described in and who executed the foregoing instrument and they *acknowledged before me that* they *executed the same.*

WITNESS my hand and official seal in the County and State last aforesaid this 30th *day of* July *, A.D. 19* 99

Michael H. Harrell
Abstract & Title Services, Inc.
420 West Baya Avenue
Lake City, FL 32025
Pursuant to issuance of Title Insurance

Karen Brown
NOTARY PUBLIC

Personally Known to me
Produced Identification
FLORIDA DRIVER'S LICENSE X

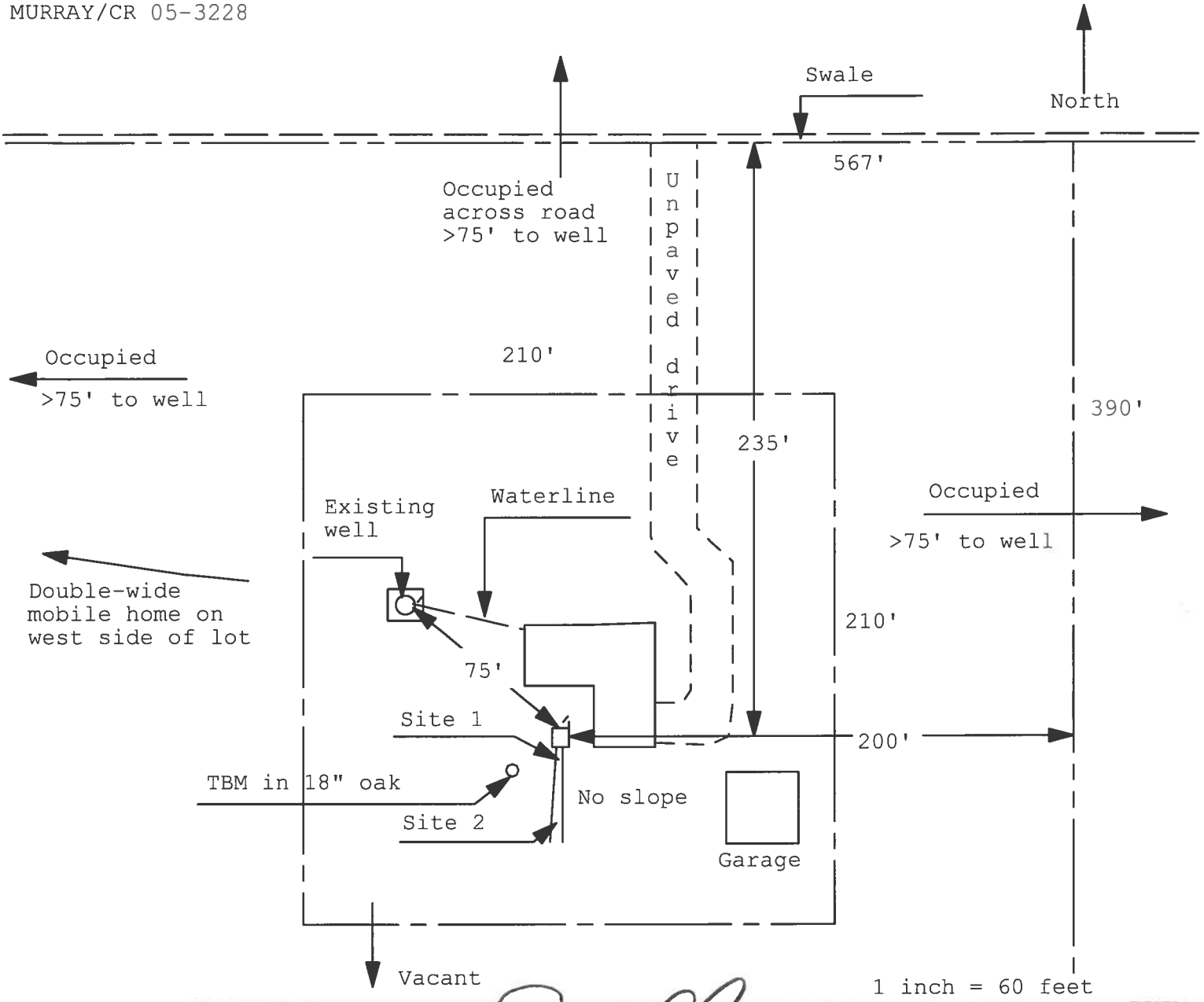
KAREN BROWN
MY COMMISSION # CC 619629
EXPIRES: April 5, 2003
Bonded Thru Notary Public Underwriters

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

Permit Application Number: 06-0482N

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

MURRAY/CR 05-3228



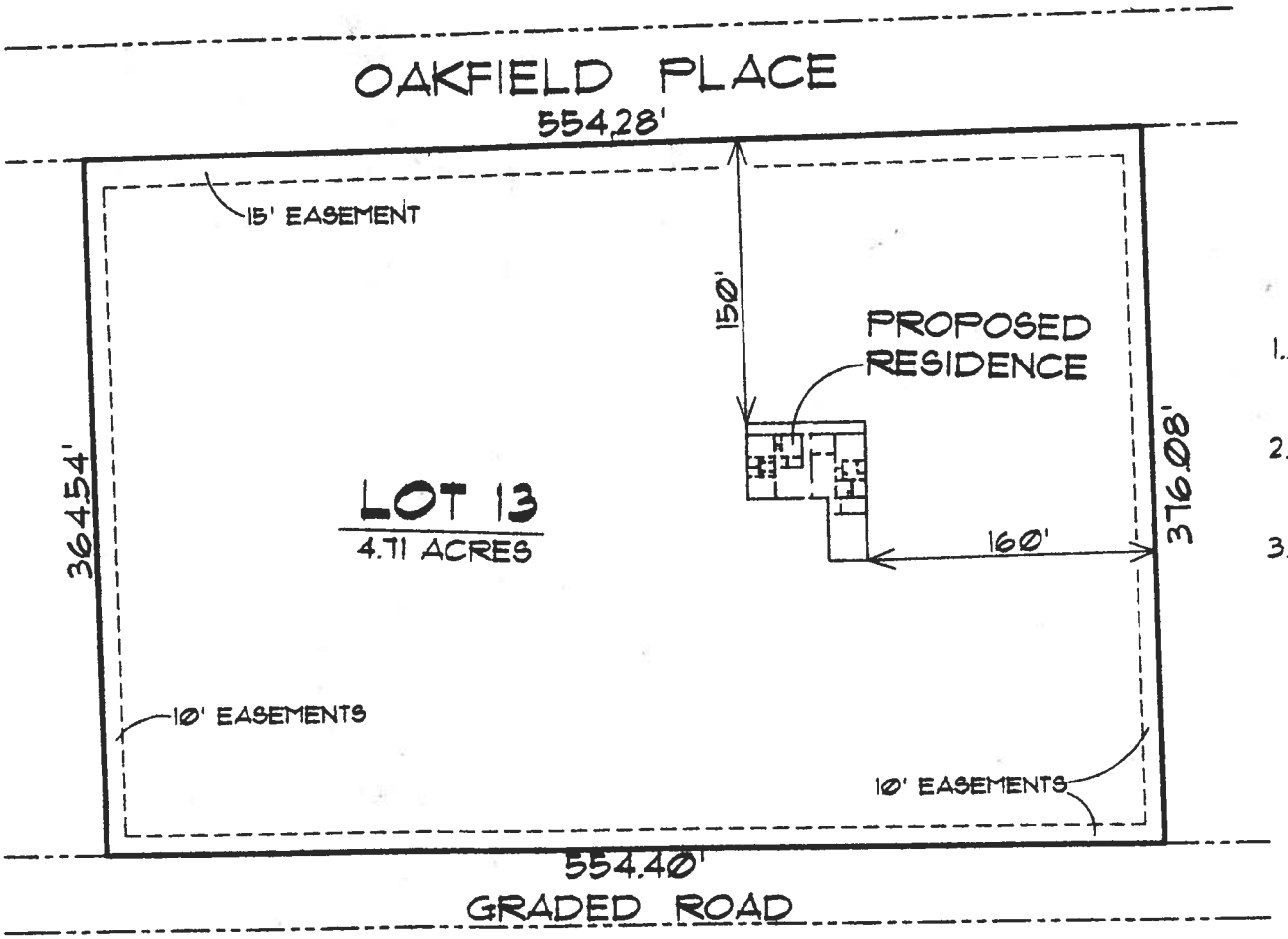
Site Plan Submitted By Paul Lord **Date** 5/19/06

Plan Approved ✓ **Not Approved** ____ **Date** 5-15-06

By Mark S Zander Columbia CHD **CPHU**

Notes: _____

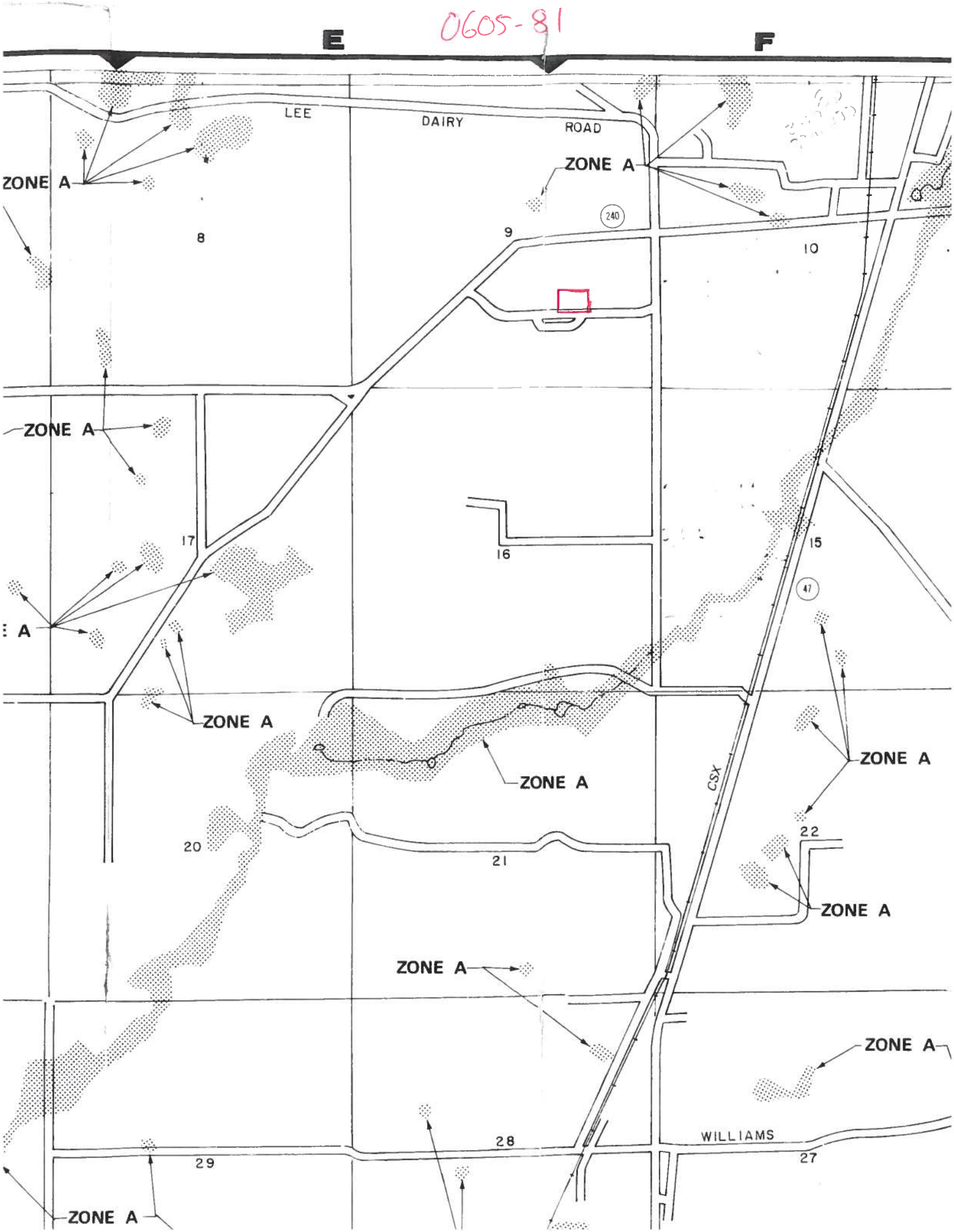
Murray Resid



DESCRIPTION: LOT No. 13 OF "OAKFIELD ACRES PHASE 2, A SUBDIVISION AS RECORDED IN PLAT BOOK 6, PAGES 18 & 18-A OF THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA.

SITE PLAN

SCALE: 1 IN. = 100 FT.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FORM 600A-2001

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**Murray Residence**	Builder:	Owner
Address:	Lot: 13, Sub: Oakfield Ac Ph2, Plat: 6, Pgs 18-18A	Permitting Office:	Columbia Co.
City, State:	Lake City, FL 32055-	Permit Number:	24590
Owner:	John & Natalie Murray	Jurisdiction Number:	221000
Climate Zone:	North		

1. New construction or existing		New	
2. Single family or multi-family		Single family	
3. Number of units, if multi-family		1	
4. Number of Bedrooms		3	
5. Is this a worst case?		No	
6. Conditioned floor area (ft²)		2279 ft²	
7. Glass area & type	Single Pane	Double Pane	
a. Clear glass, default U-factor	0.0 ft²	195.0 ft²	
b. Default tint	0.0 ft²	0.0 ft²	
c. Labeled U or SHGC	0.0 ft²	0.0 ft²	
8. Floor types			
a. Slab-On-Grade Edge Insulation		R=0.0, 208.0(p) ft	
b. N/A			
c. N/A			
9. Wall types			
a. Frame, Wood, Exterior		R=11.0, 1677.0 ft²	
b. N/A			
c. N/A			
d. N/A			
e. N/A			
10. Ceiling types			
a. Under Attic		R=30.0, 2279.0 ft²	
b. N/A			
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Interior		Sup. R=6.0, 20.0 ft	
b. N/A			

12. Cooling systems		
a. Central Unit	Cap: 35.0 kBtu/hr	
	SEER: 10.00	
b. N/A		
c. N/A		
13. Heating systems		
a. Electric Heat Pump	Cap: 35.0 kBtu/hr	
	HSPF: 7.90	
b. N/A		
c. N/A		
14. Hot water systems		
a. Electric Resistance	Cap: 30.0 gallons	
	EF: 0.90	
b. N/A		
c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)		
15. HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	PT, CF,	

Glass/Floor Area: 0.09

Total as-built points: 25944
Total base points: 32314

PASS

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

PREPARED BY: Tim Delbene

DATE: 7/30/05 T. A. Delbene

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

OWNER/AGENT: _____

DATE: _____

Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.

BUILDING OFFICIAL: _____

DATE: _____

FORM 600A-2001

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 13, Sub: Oakfield Ac Ph2, Plat: 6, Pgs 18-18A, Lake City, FL, 32055** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF	= Points	
.18	2279.0	20.04	8220.8	Double, Clear	N	8.0	7.0	72.0	19.20	0.69	951.7	
				Double, Clear	S	2.0	7.0	60.0	35.87	0.82	1765.0	
				Double, Clear	E	2.0	7.0	30.0	42.06	0.89	1117.9	
				Double, Clear	W	2.0	7.0	15.0	38.52	0.89	512.4	
				Double, Clear	W	2.0	3.0	6.0	38.52	0.64	147.6	
				Double, Clear	W	2.0	3.0	3.0	38.52	0.64	73.8	
				Double, Clear	W	2.0	5.0	9.0	38.52	0.80	277.1	
				As-Built Total:				**195.0**			**4845.5**	
WALL TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points	
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior			11.0	1677.0	1.70		2850.9	
Exterior	1677.0	1.70	2850.9									
Base Total:	**1677.0**		**2850.9**	**As-Built Total:**				**1677.0**			**2850.9**	
DOOR TYPES	Area X	BSPM =	Points	Type				Area X	SPM =		Points	
Adjacent	21.0	2.40	50.4	Exterior Insulated				21.0	4.10		86.1	
Exterior	42.0	6.10	256.2	Exterior Insulated				21.0	4.10		86.1	
				Adjacent Insulated				21.0	1.60		33.6	
Base Total:	**63.0**		**306.6**	**As-Built Total:**				**63.0**			**205.8**	
CEILING TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM X SCM =		Points	
Under Attic	2279.0	1.73	3942.7	Under Attic			30.0	2279.0	1.73 X 1.00		3942.7	
Base Total:	**2279.0**		**3942.7**	**As-Built Total:**				**2279.0**			**3942.7**	
FLOOR TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points	
Slab	208.0(p)	-37.0	-7696.0	Slab-On-Grade Edge Insulation			0.0	208.0(p	-41.20		-8569.6	
Raised	0.0	0.00	0.0									
Base Total:			**-7696.0**	**As-Built Total:**				**208.0**			**-8569.6**	
INFILTRATION	Area X	BSPM =	Points					Area X	SPM =		Points	
	2279.0	10.21	23268.6					2279.0	10.21		23268.6	

FORM 600A-2001

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 13, Sub: Oakfield Ac Ph2, Plat: 6, Pgs 18-18A, Lake City, FL, 32055** PERMIT #:

BASE			AS-BUILT						
Summer Base Points:		**30893.6**	**Summer As-Built Points:**						**26543.9**
Total Summer Points	X System Multiplier	= Cooling Points	Total Component	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points
30893.6	**0.4266**	**13179.2**	26543.9 **26543.9**	1.000 **1.00**	(1.090 x 1.147 x 0.91) **1.138**	0.341 **0.341**	0.902 **0.902**	9302.1 **9302.1**

FORM 600A-2001

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 13, Sub: Oakfield Ac Ph2, Plat: 6, Pgs 18-18A, Lake City, FL, 32055** PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned Floor Area	X BWPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF	= Points
.18	2279.0	12.74	5226.2	Double, Clear	N	8.0	7.0	72.0	24.58	1.02	1805.0
				Double, Clear	S	2.0	7.0	60.0	13.30	1.17	934.2
				Double, Clear	E	2.0	7.0	30.0	18.79	1.05	589.4
				Double, Clear	W	2.0	7.0	15.0	20.73	1.03	320.6
				Double, Clear	W	2.0	3.0	6.0	20.73	1.12	139.2
				Double, Clear	W	2.0	3.0	3.0	20.73	1.12	69.6
				Double, Clear	W	2.0	5.0	9.0	20.73	1.06	197.6
				As-Built Total:				**195.0**			**4055.8**
WALL TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =		Points
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior			11.0	1677.0	3.70		6204.9
Exterior	1677.0	3.70	6204.9								
Base Total:	**1677.0**		**6204.9**	**As-Built Total:**				**1677.0**			**6204.9**
DOOR TYPES	Area X	BWPM =	Points	Type				Area X	WPM =		Points
Adjacent	21.0	11.50	241.5	Exterior Insulated				21.0	8.40		176.4
Exterior	42.0	12.30	516.6	Exterior Insulated				21.0	8.40		176.4
				Adjacent Insulated				21.0	8.00		168.0
Base Total:	**63.0**		**758.1**	**As-Built Total:**				**63.0**			**520.8**
CEILING TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM X WCM =		Points
Under Attic	2279.0	2.05	4671.9	Under Attic			30.0	2279.0	2.05 X 1.00		4671.9
Base Total:	**2279.0**		**4671.9**	**As-Built Total:**				**2279.0**			**4671.9**
FLOOR TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =		Points
Slab	208.0(p)	8.9	1851.2	Slab-On-Grade Edge Insulation			0.0	208.0(p	18.80		3910.4
Raised	0.0	0.00	0.0								
Base Total:			**1851.2**	**As-Built Total:**				**208.0**			**3910.4**
INFILTRATION	Area X	BWPM =	Points					Area X	WPM =		Points
	2279.0	-0.59	-1344.6					2279.0	-0.59		-1344.6

FORM 600A-2001

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 13, Sub: Oakfield Ac Ph2, Plat: 6, Pgs 18-18A, Lake City, FL, 32055** PERMIT #:

BASE			AS-BUILT					
Winter Base Points:		**17367.7**	**Winter As-Built Points:**					**18019.2**
Total Winter Points	X System Multiplier	= Heating Points	Total Component	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points
17367.7	0.6274	10896.5	18019.2 **18019.2**	1.000 **1.00**	(1.069 x 1.169 x 0.93) **1.162**	0.432 **0.432**	0.950 **0.950**	8587.4 **8587.4**

FORM 600A-2001

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 13, Sub: Oakfield Ac Ph2, Plat: 6, Pgs 18-18A, Lake City, FL, 32055** PERMIT #:

BASE				AS-BUILT							
WATER HEATING											
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X Tank Ratio	X Multiplier	X Credit Multiplier	= Total	
3		2746.00	8238.0	30.0	0.90	3	1.00	2684.98	1.00	8054.9	
				As-Built Total:						**8054.9**	

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points	Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points
13179	**10897**	**8238**	**32314**	**9302**	**8587**	**8055**	**25944**

PASS

FORM 600A-2001

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 13, Sub: Oakfield Ac Ph2, Plat: 6, Pgs 18-18A, 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.	✓
Exterior & Adjacent Walls	606.1.ABC.1.2.1	Caulk, gasket, weatherstrip or seal between: windows/doors & frames, surrounding wall; foundation & wall sole or sill plate; joints between exterior wall panels at corners; utility penetrations; between wall panels & top/bottom plates; between walls and floor. EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate.	✓
Floors	606.1.ABC.1.2.2	Penetrations/openings >1/8" sealed unless backed by truss or joint members. EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.	✓
Ceilings	606.1.ABC.1.2.3	Between walls & ceilings; penetrations of ceiling plane of top floor; around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate; attic access. EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams.	✓
Recessed Lighting Fixtures	606.1.ABC.1.2.4	Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation; or Type IC rated with < 2.0 cfm from conditioned space, tested.	✓
Multi-story Houses	606.1.ABC.1.2.5	Air barrier on perimeter of floor cavity between floors.	N/A
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%.	N/A
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.	✓

From: The Columbia County Building & Zoning Department
Plan Review
135 NE Hernando Av.
P.O. Box 1529
Lake City Florida 32056-1529

Reference to a building permit application Number: 0605-81

Contractor: Ronald Mack Robinson Jr. Owner John Murray Jr. Oakfield Acres Lot 13 Phase Two

On the date of May 23, 2006 application 0605-81and plans for construction of a single family dwelling were reviewed and the following information or alteration to the plans will be required to continue processing this application. If you should have any question please contact the above address, or contact phone number (386) 758-1163 or fax any information to (386) 754-7088.

Please include application number 0605-81when making reference to this application.

To help ensure compliance with the Florida Residential Code 2004 the comments below need to be addressed on the plans.

1. The plans a submitted included windload engineering performed by Mr. Mark Disosway. This windload evaluation was preformed using the code standards of the Florida Building Code 2001 addition. Please have Mr. Disosway perform a new windload engineering analysis using the Florida Building Code 2004 as a code reference.

2. Please submit the required forms to show compliance with the FBC-2004 chapter 13 energy effiency Sections 13-101.2.1 New construction: new residential construction shall comply with this code by using the following compliance methods: Subchapter 13-6, Residential buildings compliance methods. Single-family residential buildings and Multiple-family buildings of three stories or less shall comply with this chapter of the code. This subchapter contains three compliance methods:

   Method A: Whole Building Performance Method

   Method B: Component Prescriptive Method

   Method C: Limited Applications Prescriptive Method

   Along with this form please include a Manual "J" analysis of the dwelling..

Thank you,

Joe Haltiwanger
Plan Examiner
Columbia County Building Department

SHATTO HEATING & AIR, INC.
Bringing a Touch of Winter at Summer Long

Short Form
Entire House
SHATTO HEATING & AIR, INC.

Job: MURRAY RESIDENCE
Date: MAY 23, 2006
By: KIM SHATTO

222 WEST MAIN STREET LAKE BUTLER, FL 32054 Phone 386-496-8224 Fax: 386-496-9065 Email: kimshatto@shattoair.com Web: www.shattoair.com

Project Information

For: JACKSON & ROBINSON CONSTRUCTION
27591 NW CR 239, ALACHUA, FL 32615
Phone: 352-316-5135 Fax: 386-462-3457

Design Information

	Htg	Clg
Outside db (°F)	33	92
Inside db (°F)	70	75
Design TD (°F)	37	17
Daily range	-	M
Inside humidity (%)	-	50
Moisture difference (gr/lb)	-	52

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

HEATING EQUIPMENT

Make Trane
Trade XB 13
Model 2TWB3048A1000A

Efficiency	8 HSPF	
Heating input		
Heating output	46000	Btuh @ 47°F
Temperature rise	30	°F
Actual air flow	1393	cfm
Air flow factor	0.045	cfm/Btuh
Static pressure	0.00	in H2O
Space thermostat		

COOLING EQUIPMENT

Make Trane
Trade XB 13
Cond 2TWB3048A1000A
Coil TGB3F048A1000A

Efficiency	13 SEER	
Sensible cooling	34650	Btuh
Latent cooling	14850	Btuh
Total cooling	49500	Btuh
Actual air flow	1393	cfm
Air flow factor	0.043	cfm/Btuh
Static pressure	0.00	in H2O
Load sensible heat ratio	0.79	

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
OFFICE/CRAFT	168	2902	1973	130	85
WIC	72	744	379	33	16
ENTRY	3	173	60	8	3
UTILITY	81	264	3276	12	142
MECH	15	49	51	2	2
MASTER BATH	187	1878	2071	84	90
MASTER BEDROOM	238	4470	3478	201	151
BREAKFAST ROOM	108	2744	1326	123	57
KITCHEN	180	586	4813	26	208
DINING ROOM	120	2040	1786	92	77
FOYER	85	560	363	25	16
STUDY	168	2309	3179	104	138
BATH	70	228	238	10	10
GREAT ROOM	323	3097	2401	139	104
BEDROOM #3	168	3959	2985	178	129
BATH #2	88	287	299	13	13
CLOSET	66	838	388	38	17

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BEDROOM #2		154	3856	3103	173	134
Entire House	d	2294	30983	32169	1393	1393
Other equip loads			0	0		
Equip @ 0.97	RSM			31204		
Latent cooling				8429		
TOTALS		2294	30983	39633	1393	1393

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SHATTO HEATING & AIR, INC.
Bringing a Touch of Winter all Summer Long

Project Summary
Entire House
SHATTO HEATING & AIR, INC.

Job: MURRAY RESIDENCE
Date: MAY 23, 2006
By: KIM SHATTO

222 WEST MAIN STREET, LAKE BUTLER, FL 32054 Phone: 386-496-8224 Fax: 386-496-9065 Email: kimshatto@shattoair.com Web: www.shattoair.com

Project Information

For: JACKSON & ROBINSON CONSTRUCTION
27591 NW CR 239, ALACHUA, FL 32615
Phone: 352-316-5135 Fax: 386-462-3457

Notes:

Design Information

Weather: Gainesville, FL, US

Winter Design Conditions

Outside db	33	°F
Inside db	70	°F
Design TD	37	°F

Summer Design Conditions

Outside db	92	°F
Inside db	75	°F
Design TD	17	°F
Daily range	M	
Relative humidity	50	%
Moisture difference	52	gr/lb

Heating Summary

Structure	30983	Btuh
Ducts	0	cfm
Central vent (0 cfm)	0	Btuh
Humidification	0	Btuh
Piping	0	Btuh
Equipment load	30983	Btuh

Sensible Cooling Equipment Load Sizing

Structure	32169	Btuh
Ducts	0	Btuh
Central vent (0 cfm)	0	Btuh
Blower	0	Btuh
Use manufacturer's data	n	
Rate/swing multiplier	0.97	
Equipment sensible load	31204	Btuh

Infiltration

Method	Simplified	
Construction quality	Average	
Fireplaces	0	

	Heating	Cooling
Area (ft²)	2294	2294
Volume (ft³)	18352	18352
Air changes/hour	0.70	0.40
Equiv. AVF (cfm)	214	122

Latent Cooling Equipment Load Sizing

Structure	8429	Btuh
Ducts	0	Btuh
Central vent (0 cfm)	0	Btuh
Equipment latent load	8429	Btuh
Equipment total load	39633	Btuh
Req. total capacity at 0.70 SHR	3.7	ton

Heating Equipment Summary

Make Trane
Trade XB 13
Model 2TWB3048A1000A

Efficiency	8 HSPF	
Heating input		
Heating output	46000	Btuh @ 47°F
Temperature rise	30	°F
Actual air flow	1393	cfm
Air flow factor	0.045	cfm/Btuh
Static pressure	0.00	in H2O
Space thermostat		

Cooling Equipment Summary

Make Trane
Trade XB 13
Cond 2TWB3048A1000A
Coil TGB3F048A1000A

Efficiency	13 SEER	
Sensible cooling	34650	Btuh
Latent cooling	14850	Btuh
Total cooling	49500	Btuh
Actual air flow	1393	cfm
Air flow factor	0.043	cfm/Btuh
Static pressure	0.00	in H2O
Load sensible heat ratio	0.79	

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SHATTO HEATING & AIR, INC.

Right-J Worksheet
Entire House
SHATTO HEATING & AIR, INC.

Job: MURRAY RESIDENCE
Date: MAY 23, 2006
By: KIM SHATTO

222 WEST MAIN STREET, LAKE BUTLER, FL 32054 Phone: 386-496-8224 Fax: 386-496-9065 Email: kimshatto@shattoair.com Web: www.shattoair.com

MANUAL J 7th Ed

						Entire House 1880 ft			OFFICE/CRAFT 16.0 ft 21.0 x 8.0 ft			WIC 9.0 ft 8.0 x 9.0 ft			ENTRY 1.0 ft 3.0 x 1.0 ft		
1	Name of room																
2	Length of exposed wall					8.0 ft	heat/cool	d	8.0 ft	heat/cool		8.0 ft	heat/cool		8.0 ft	heat/cool	
3	Room dimensions																
4	Ceilings	Condit. Option															
TYPE OF EXPOSURE			CST NO	HTM Htg	HTM Clg	Area (ft²)	Load (Btuh) Htg	Load (Btuh) Clg	Area (ft²)	Load (Btuh) Htg	Load (Btuh) Clg	Area (ft²)	Load (Btuh) Htg	Load (Btuh) Clg	Area (ft²)	Load (Btuh) Htg	Load (Btuh) Clg
5	Gross Exposed walls and partitions	a	12C0	3.3	1.9	1504	****	****	128	****	****	72	****	****	8	****	****
		b	13C0	3.3	1.1	176	****	****	144	****	****	0	****	****	32	****	****
		c		0.0	0.0	0	****	****	0	****	****	0	****	****	0	****	****
		d		0.0	0.0	0	****	****	0	****	****	0	****	****	0	****	****
		e		0.0	0.0	0	****	****	0	****	****	0	****	****	0	****	****
		f		0.0	0.0	0	****	****	0	****	****	0	****	****	0	****	****
6	Windows and glass doors Heating	a	3C0	26.6	**	152	4077	****	12	322	****	0	0	****	0	0	****
		b		0.0	**	0	0	****	0	0	****	0	0	****	0	0	****
		c		0.0	**	0	0	****	0	0	****	0	0	****	0	0	****
		d		0.0	**	0	0	****	0	0	****	0	0	****	0	0	****
		e		0.0	**	0	0	****	0	0	****	0	0	****	0	0	****
		f		0.0	**	0	0	****	0	0	****	0	0	****	0	0	****
7	Windows and glass doors Cooling	North			21.8	48	****	1046	0	****	0	0	****	0	0	****	0
		NE/NW			0.0	0	****	0	0	****	0	0	****	0	0	****	0
		E/W			70.8	56	****	3965	12	****	850	0	****	0	0	****	0
		SE/SW			0.0	0	****	0	0	****	0	0	****	0	0	****	0
		South			36.8	48	****	1766	0	****	0	0	****	0	0	****	0
		Horz			0.0	0	****	0	0	****	0	0	****	0	0	****	0
8	Other doors	a		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
		b		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
		c		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
9	Net exposed walls and partitions	a	12C0	3.3	1.9	1352	4502	2507	116	386	215	72	240	133	8	27	15
		b	13C0	3.3	1.1	176	586	190	144	480	156	0	0	0	32	107	35
		c		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
		d		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
		e		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
		f		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
10	Ceilings	a	16C0	3.3	2.4	2284	7469	7606	168	547	572	72	234	245	3	10	10
		b		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
		c		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
		d		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
		e		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
		f		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
11	Floors (Note: room perimeter is displ. for slab floors)	a	22A0	30.0	0.0	188	5634	0	16	480	0	9	270	0	1	30	0
		b		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
		c		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
		d		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
		e		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
		f		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
12	Infiltration Ventilation	a		57.3	15.1	152	8714	2298	12	688	181	0	0	0	0	0	0
							0	0		0	0		0	0		0	0
13	Subtotal loss=6+8..+11+12					****	30983	****	****	2902	****	****	744	****	****	173	****
	Less external heating					****	0	****	****	0	****	****	0	****	****	0	****
	Less transfer					****	0	****	****	0	****	****	0	****	****	0	****
	Heating redistribution					****	0	****	****	0	****	****	0	****	****	0	****
14	Duct loss					0%	0	****	0%	0	****	0%	0	****	0%	0	****
15	Total loss = 13+14					****	30983	****	****	2902	****	****	744	****	****	173	****
16	Int. gains: People @ 300					18	****	5400	0	****	0	0	****	0	0	****	0
	Appl. @ 1200					6	****	7200	0	****	0	0	****	0	0	****	0
17	Subtot RSH gain=7+8..+12+16					****	****	32169	****	****	1973	****	****	379	****	****	60
	Less external cooling					****	****	0	****	****	0	****	****	0	****	****	0
	Less transfer					****	****	0	****	****	0	****	****	0	****	****	0
	Cooling redistribution					****	****	0	****	****	0	****	****	0	****	****	0
18	Duct gain					0%	****	0	0%	****	0	0%	****	0	0%	****	0
19	Total RSH gain=(17+18)*PLF					1.00	****	32169	1.00	****	1973	1.00	****	379	1.00	****	60
20	Air required (cfm)						1393	1393		130	85		33	16		8	3

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SHATTO HEATING & AIR, INC.

Right-J Worksheet
Entire House
SHATTO HEATING & AIR, INC.

Job: MURRAY RESIDENCE
Date: MAY 23, 2006
By: KIM SHATTO

222 WEST MAIN STREET, LAKE BUTLER, FL 32054 Phone: 386-496-8224 Fax: 386-496-9065 Email: kimshatto@shattoair.com Web: www.shattoair.com

MANUAL J 7th Ed.					UTILITY 0.0 ft 9.0 x 9.0 ft 8.0 ft heat/cool			MECH 0.0 ft 3.0 x 5.0 ft 8.0 ft heat/cool			MASTER BATH 11.0 ft 17.0 x 11.0 ft 8.0 ft heat/cool			MASTER BEDROOM 31.0 ft 17.0 x 14.0 ft 8.0 ft heat/cool		
1 Name of room																
2 Length of exposed wall																
3 Room dimensions																
4 Ceilings	Condit. Option															
TYPE OF EXPOSURE		CST NO	HTM Htg	HTM Clg	Area (ft²)	Load (Btuh) Htg	Load (Btuh) Clg	Area (ft²)	Load (Btuh) Htg	Load (Btuh) Clg	Area (ft²)	Load (Btuh) Htg	Load (Btuh) Clg	Area (ft²)	Load (Btuh) Htg	Load (Btuh) Clg
5 Gross Exposed walls and partitions	a	12C0	3.3	1.9	0	****	****	0	****	****	88	****	****	248	****	****
	b	13C0	3.3	1.1	0	****	****	0	****	****	0	****	****	0	****	****
	c		0.0	0.0	0	****	****	0	****	****	0	****	****	0	****	****
	d		0.0	0.0	0	****	****	0	****	****	0	****	****	0	****	****
	e		0.0	0.0	0	****	****	0	****	****	0	****	****	0	****	****
	f		0.0	0.0	0	****	****	0	****	****	0	****	****	0	****	****
6 Windows and glass doors Heating	a	3C0	26.8	**	0	0	****	0	0	****	8	215	****	24	644	****
	b		0.0	**	0	0	****	0	0	****	0	0	****	0	0	****
	c		0.0	**	0	0	****	0	0	****	0	0	****	0	0	****
	d		0.0	**	0	0	****	0	0	****	0	0	****	0	0	****
	e		0.0	**	0	0	****	0	0	****	0	0	****	0	0	****
	f		0.0	**	0	0	****	0	0	****	0	0	****	0	0	****
7 Windows and glass doors Cooling		North		21.8	0	****	0	0	****	0	0	****	0	0	****	0
		NE/NW		0.0	0	****	0	0	****	0	0	****	0	0	****	0
		E/W		70.8	0	****	0	0	****	0	8	****	566	12	****	850
		SE/SW		0.0	0	****	0	0	****	0	0	****	0	0	****	0
		South		38.8	0	****	0	0	****	0	0	****	0	12	****	442
		Horz		0.0	0	****	0	0	****	0	0	****	0	0	****	0
8 Other doors	a		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	b		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	c		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
9 Net exposed walls and partitions	a	*2C0	3.3	1.9	0	0	0	0	0	0	80	266	148	224	746	415
	b	13C0	3.3	1.1	0	0	0	0	0	0	0	0	0	0	0	0
	c		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	d		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	e		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	f		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
10 Ceilings	a	16C0	3.3	3.4	81	264	276	15	49	51	187	609	636	238	775	810
	b		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	c		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	d		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	e		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	f		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
11 Floors (Note: room perimeter is displ. for slab floors)	a	22A0	30.0	0.0	0	0	0	0	0	0	11	330	0	31	929	0
	b		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	c		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	d		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	e		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	f		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
12 Infiltration Ventilation	a		57.3	15.1	0	0	0	0	0	0	8	459	120	24	1378	361
						0	0		0	0		0	0		0	0
13 Subtotal loss=6+8..+11+12					****	264	****	****	49	****	****	1878	****	****	4470	****
Less external heating					****	0	****	****	0	****	****	0	****	****	0	****
Less transfer					****	0	****	****	0	****	****	0	****	****	0	****
Heating redistribution					****	0	****	****	0	****	****	0	****	****	0	****
14 Duct loss					0%	0	****	0%	0	****	0%	0	****	0%	0	****
15 Total loss = 13+14					****	264	****	****	49	****	****	1878	****	****	4470	****
16 Int. gains: People @				300	2	****	600	0	****	0	2	****	600	2	****	600
Appl. @				1200	2	****	2400	0	****	0	0	****	0	0	****	0
17 Subtot RSH gain=7+8..+12+16					****	****	3276	****	****	51	****	****	2071	****	****	3478
Less external cooling					****	****	0	****	****	0	****	****	0	****	****	0
Less transfer					****	****	0	****	****	0	****	****	0	****	****	0
Cooling redistribution					****	****	0	****	****	0	****	****	0	****	****	0
18 Duct gain					0%	****	0	0%	****	0	0%	****	0	0%	****	0
19 Total RSH gain=(17+18)*PLF					1.00	****	3276	1.00	****	51	1.00	****	2071	1.00	****	3478
20 Air required (cfm)						12	142		2	2		84	90		201	151

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SHATTO HEATING & AIR, INC.

Right-J Worksheet
Entire House
SHATTO HEATING & AIR, INC.

Job: MURRAY RESIDENCE
Date: MAY 23, 2006
By: KIM SHATTO

222 WEST MAIN STREET, LAKE BUTLER, FL 32054 Phone: 386-496-8224 Fax: 386-496-9065 Email: kimshatto@shattoair.com Web: www.shattoair.com

MANUAL J 7th Ed.

					BREAKFAST ROOM 8.0 ft 12.0 x 9.0 ft 8.0 ft heat/cool			KITCHEN 0.0 ft 12.0 x 15.0 ft 8.0 ft heat/cool			DINING ROOM 12.0 ft 12.0 x 10.0 ft 8.0 ft heat/cool			FOYER 5.0 ft 5.0 x 17.0 ft 8.0 ft heat/cool		
1	Name of room															
2	Length of exposed wall															
3	Room dimensions															
4	Ceilings	Condit. Option														
TYPE OF EXPOSURE		CST NO	HTM Htg	HTM Clg	Area (ft²)	Load (Btuh) Htg	Load (Btuh) Clg	Area (ft²)	Load (Btuh) Htg	Load (Btuh) Clg	Area (ft²)	Load (Btuh) Htg	Load (Btuh) Clg	Area (ft²)	Load (Btuh) Htg	Load (Btuh) Clg
5	Gross Exposed walls and partitions	a 12C0	3.3	1.9	84	****	****	0	****	****	96	****	****	40	****	****
		b 13C0	3.3	1.1	0	****	****	0	****	****	0	****	****	0	****	****
		c	0.0	0.0	0	****	****	0	****	****	0	****	****	0	****	****
		d	0.0	0.0	0	****	****	0	****	****	0	****	****	0	****	****
		e	0.0	0.0	0	****	****	0	****	****	0	****	****	0	****	****
		f	0.0	0.0	0	****	****	0	****	****	0	****	****	0	****	****
6	Windows and glass doors Heating	a 3C0	26.8	**	24	644	****	0	0	****	12	322	****	0	0	****
		b	0.0	**	0	0	****	0	0	****	0	0	****	0	0	****
		c	0.0	**	0	0	****	0	0	****	0	0	****	0	0	****
		d	0.0	**	0	0	****	0	0	****	0	0	****	0	0	****
		e	0.0	**	0	0	****	0	0	****	0	0	****	0	0	****
		f	0.0	**	0	0	****	0	0	****	0	0	****	0	0	****
7	Windows and glass doors Cooling	North		21.8	24	****	523	0	****	0	0	****	0	0	****	0
		NE/NW		0.0	0	****	0	0	****	0	0	****	0	0	****	0
		E/W		70.8	0	****	0	0	****	0	0	****	0	0	****	0
		SE/SW		0.0	0	****	0	0	****	0	0	****	0	0	****	0
		South		36.8	0	****	0	0	****	0	12	****	442	0	****	0
		Horz		0.0	0	****	0	0	****	0	0	****	0	0	****	0
8	Other doors	a		0.0	0	0	0	0	0	0	0	0	0	0	0	0
		b		0.0	0	0	0	0	0	0	0	0	0	0	0	0
		c		0.0	0	0	0	0	0	0	0	0	0	0	0	0
9	Net exposed walls and partitions	a 12C0	3.3	1.9	40	133	74	0	0	0	84	290	156	40	133	74
		b 13C0	3.3	1.1	0	0	0	0	0	0	0	0	0	0	0	0
		c	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
		d	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
		e	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
		f	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
10	Ceilings	a 15C0	3.3	2.4	108	352	368	180	586	613	120	391	408	85	277	289
		b	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
		c	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
		d	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
		e	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
		f	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
11	Floors (Note. room perimeter is displ. for slab floors)	a 22A0	30.0	0.0	8	240	0	0	0	0	12	360	0	5	150	0
		b	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
		c	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
		d	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
		e	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
		f	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
12	Infiltration Ventilation	a	57.3	15.1	24	1376	361	0	0	0	12	688	181	0	0	0
						0	0		0	0		0	0		0	0
13	Subtotal loss=8+8..+11+12				****	2744	****	****	586	****	****	2040	****	****	560	****
	Less external heating				****	0	****	****	0	****	****	0	****	****	0	****
	Less transfer				****	0	****	****	0	****	****	0	****	****	0	****
	Heating redistribution				****	0	****	****	0	****	****	0	****	****	0	****
14	Duct loss				0%	0	****	0%	0	****	0%	0	****	0%	0	****
15	Total loss = 13+14				****	2744	****	****	586	****	****	2040	****	****	560	****
16	Int. gains: People @ 300				3	****	0	2	****	600	2	****	600	0	****	0
	Appl. @ 1200				0	****	0	3	****	3600	0	****	0	0	****	0
17	Subtot RSH gain=7+8..+12+16				****	****	1326	****	****	4813	****	****	1786	****	****	363
	Less external cooling				****	****	0	****	****	0	****	****	0	****	****	0
	Less transfer				****	****	0	****	****	0	****	****	0	****	****	0
	Cooling redistribution				****	****	0	****	****	0	****	****	0	****	****	0
18	Duct gain				0%	****	0	0%	****	0	0%	****	0	0%	****	0
19	Total RSH gain=(17+15)*PLF				1.00	****	1326	1.00	****	4813	1.00	****	1786	1.00	****	363
20	Air required (cfm)					123	57		26	208		92	77		25	16

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SHATTO HEATING & AIR, INC.

Right-J Worksheet
Entire House
SHATTO HEATING & AIR, INC.

Job: MURRAY RESIDENCE
Date: MAY 23, 2006
By: KIM SHATTO

222 WEST MAIN STREET, LAKE BUTLER, FL 32054 Phone: 386-496-8224 Fax: 386-496-9065 Email: kimshatto@shattoair.com Web: www.shattoair.com

MANUAL J: 7th Ed.					STUDY 14.0 ft 14.0 x 12.0 ft 8.0 ft heat/cool			BATH 0.0 ft 14.0 x 5.0 ft 8.0 ft heat/cool			GREAT ROOM 19.0 ft 19.0 x 17.0 ft 8.0 ft heat/cool			BEDROOM #3 26.0 ft 14.0 x 12.0 ft 8.0 ft heat/cool		
1 Name of room																
2 Length of exposed wall																
3 Room dimensions																
4 Ceilings	Condit. Option															
TYPE OF EXPOSURE		CST NO	HTM Htg	HTM Clg	Area (ft²)	Load (Btuh) Htg	Load (Btuh) Clg	Area (ft²)	Load (Btuh) Htg	Load (Btuh) Clg	Area (ft²)	Load (Btuh) Htg	Load (Btuh) Clg	Area (ft²)	Load (Btuh) Htg	Load (Btuh) Clg
5 Gross Exposed walls and partitions	a	12C0	3.3	1.9	112	****	****	0	****	****	152	****	****	208	****	****
	b	13C0	3.3	1.1	0	****	****	0	****	****	0	****	****	0	****	****
	c		0.0	0.0	0	****	****	0	****	****	0	****	****	0	****	****
	d		0.0	0.0	0	****	****	0	****	****	0	****	****	0	****	****
	e		0.0	0.0	0	****	****	0	****	****	0	****	****	0	****	****
	f		0.0	0.0	0	****	****	0	****	****	0	****	****	0	****	****
6 Windows and glass doors Heating	a	3C0	26.8	**	12	322	****	0	0	****	12	322	****	24	644	****
	b		0.0	**	0	0	****	0	0	****	0	0	****	0	0	****
	c		0.0	**	0	0	****	0	0	****	0	0	****	0	0	****
	d		0.0	**	0	0	****	0	0	****	0	0	****	0	0	****
	e		0.0	**	0	0	****	0	0	****	0	0	****	0	0	****
	f		0.0	**	0	0	****	0	0	****	0	0	****	0	0	****
7 Windows and glass doors Cooling	North			21.8	0	****	0	0	****	0	12	****	262	12	****	262
	NE/NW			0.0	0	****	0	0	****	0	0	****	0	0	****	0
	E/W			70.8	0	****	0	0	****	0	0	****	0	12	****	850
	SE/SW			0.0	0	****	0	0	****	0	0	****	0	0	****	0
	South			38.8	12	****	442	0	****	0	0	****	0	0	****	0
	Horz			0.0	0	****	0	0	****	0	0	****	0	0	****	0
8 Other doors	a		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	b		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	c		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
9 Net exposed walls and partitions	a	12C0	3.3	1.9	100	333	185	0	0	0	140	466	260	184	613	341
	b	13C0	3.3	1.1	0	0	0	0	0	0	0	0	0	0	0	0
	c		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	d		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	e		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	f		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
10 Ceilings	a	16C0	3.3	3.4	168	547	572	70	228	238	323	1052	1099	168	547	572
	b		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	c		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	d		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	e		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	f		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
11 Floors (Note: room perimeter is displ. for slab floors)	a	22A0	30.0	0.0	14	420	0	0	0	0	19	569	0	26	779	0
	b		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	c		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	d		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	e		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	f		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
12 Infiltration Ventilation	a		57.3	15.1	12	688	181	0	0	0	12	688	181	24	1376	361
						0	0		0	0		0	0		0	0
13 Subtotal loss=6+8..+11+12					****	2309	****	****	228	****	****	3097	****	****	3959	****
Less external heating					****	0	****	****	0	****	****	0	****	****	0	****
Less transfer					****	0	****	****	0	****	****	0	****	****	0	****
Heating redistribution					****	0	****	****	0	****	****	0	****	****	0	****
14 Duct loss					0%	0	****	0%	0	****	0%	0	****	0%	0	****
15 Total loss = 13+14					****	2309	****	****	228	****	****	3097	****	****	3959	****
16 Int. gains: People @ 300					2	****	600	0	****	0	2	****	600	2	****	600
Appl. @ 1200					1	****	1200	0	****	0	0	****	0	0	****	0
17 Subtot RSH gain=7+8..+12+16					****	****	3178	****	****	238	****	****	2401	****	****	2985
Less external cooling					****	****	0	****	****	0	****	****	0	****	****	0
Less transfer					****	****	0	****	****	0	****	****	0	****	****	0
Cooling redistribution					****	****	0	****	****	0	****	****	0	****	****	0
18 Duct gain					0%	****	0	0%	****	0	0%	****	0	0%	****	0
19 Total RSH gain=(17+18)*PLF					1.00	****	3178	1.00	****	238	1.00	****	2401	1.00	****	2985
20 Air required (cfm)						104	138		10	10		139	104		176	129

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SHATTO HEATING & AIR, INC

Right-J Worksheet
Entire House
SHATTO HEATING & AIR, INC.

Job: MURRAY RESIDENCE
Date: MAY 23, 2006
By: KIM SHATTO

222 WEST MAIN STREET, LAKE BUTLER, FL 32054 Phone: 386-496-8224 Fax: 386-496-9065 Email: kimshatto@shattoair.com Web: www.shattoair.com

MANUAL J: 7th Ed.					BATH #2 0.0 ft 8.0 x 11.0 ft 8.0 ft heat/cool			CLOSET 11.0 ft 6.0 x 11.0 ft 8.0 ft heat/cool			BEDROOM #2 25.0 ft 14.0 x 11.0 ft 8.0 ft heat/cool					
1 Name of room																
2 Length of exposed wall																
3 Room dimensions																
4 Ceilings	Condit. Option															
TYPE OF EXPOSURE		CST NO	HTM Htg	HTM Clg	Area (ft²)	Load (Btuh) Htg	Load (Btuh) Clg	Area (ft²)	Load (Btuh) Htg	Load (Btuh) Clg	Area (ft²)	Load (Btuh) Htg	Load (Btuh) Clg	Area	Htg	Clg
5 Gross Exposed walls and partitions	a	12C0	3.3	1.9	0	****	****	88	****	****	200	****	****		****	****
	b	13C0	3.3	1.1	0	****	****	0	****	****	0	****	****		****	****
	c		0.0	0.0	0	****	****	0	****	****	0	****	****		****	****
	d		0.0	0.0	0	****	****	0	****	****	0	****	****		****	****
	e		0.0	0.0	0	****	****	0	****	****	0	****	****		****	****
	f		0.0	0.0	0	****	****	0	****	****	0	****	****		****	****
6 Windows and glass doors Heating	a	3C0	26.8	**	0	0	****	0	0	****	24	644	****			****
	b		0.0	**	0	0	****	0	0	****	0	0	****			****
	c		0.0	**	0	0	****	0	0	****	0	0	****			****
	d		0.0	**	0	0	****	0	0	****	0	0	****			****
	e		0.0	**	0	0	****	0	0	****	0	0	****			****
	f		0.0	**	0	0	****	0	0	****	0	0	****			****
7 Windows and glass doors Cooling	North			21.8	0	****	0	0	****	0	0	****	0		****	
	NE/NW			0.0	0	****	0	0	****	0	0	****	0		****	
	E/W			70.8	0	****	0	0	****	0	12	****	850		****	
	SE/SW			0.0	0	****	0	0	****	0	0	****	0		****	
	South			36.8	0	****	0	0	****	0	12	****	442		****	
	Horiz			0.0	0	****	0	0	****	0	0	****	0		****	
8 Other doors	a		0.0	0.0	0	0	0	0	0	0	0	0	0			
	b		0.0	0.0	0	0	0	0	0	0	0	0	0			
	c		0.0	0.0	0	0	0	0	0	0	0	0	0			
9 Net exposed walls and partitions	a	12C0	3.3	1.9	0	0	0	88	293	163	176	586	326			
	b	13C0	3.3	1.1	0	0	0	0	0	0	0	0	0			
	c		0.0	0.0	0	0	0	0	0	0	0	0	0			
	d		0.0	0.0	0	0	0	0	0	0	0	0	0			
	e		0.0	0.0	0	0	0	0	0	0	0	0	0			
	f		0.0	0.0	0	0	0	0	0	0	0	0	0			
10 Ceilings	a	16C0	3.3	3.4	88	287	299	88	215	225	164	501	524			
	b		0.0	0.0	0	0	0	0	0	0	0	0	0			
	c		0.0	0.0	0	0	0	0	0	0	0	0	0			
	d		0.0	0.0	0	0	0	0	0	0	0	0	0			
	e		0.0	0.0	0	0	0	0	0	0	0	0	0			
	f		0.0	0.0	0	0	0	0	0	0	0	0	0			
11 Floors (Note: room perimeter is displ. for slab floors)	a	22A0	30.0	0.0	0	0	0	11	330	0	25	749	0			
	b		0.0	0.0	0	0	0	0	0	0	0	0	0			
	c		0.0	0.0	0	0	0	0	0	0	0	0	0			
	d		0.0	0.0	0	0	0	0	0	0	0	0	0			
	e		0.0	0.0	0	0	0	0	0	0	0	0	0			
	f		0.0	0.0	0	0	0	0	0	0	0	0	0			
12 Infiltration	a		57.3	15.1	0	0	0	0	0	0	24	1376	361			
Ventilation						0				0		0				
13 Subtotal loss=6+8 +11+12					****	287	****	****	838	****	****	3856	****	****		****
Less external heating					****	0	****	****	0	****	****	0	****	****		****
Less transfer					****	0	****	****	0	****	****	0	****	****		****
Heating redistribution					****	0	****	****	0	****	****	0	****	****		****
14 Duct loss					0%	0	0%		0	****	0%	0	****	%		****
15 Total loss = 13+14					****	287	****	****	838	****	****	3856	****	****		****
16 Int. gains: People @ 300					0	****	0	0	****	0	2	****	600		****	
Appl. @ 1200					0	****	0	0	****	0	0	****	0		****	
17 Subtot RSH gains=7+8 .+12+16					****	****	299	****	****	398	****	****	3103	****	****	
Less external cooling					****	****	0	****	****	0	****	****	0	****	****	
Less transfer					****	****	0	****	****	0	****	****	0	****	****	
Cooling redistribution					****	****	0	****	****	0	****	****	0	****	****	
18 Duct gain					0%	****	0	0%	****	0	0%	****	0	%	****	
19 Total RSH gains(17+18)*PLF					1.00	****	299	1.00	****	398	1.00	****	3103		****	
20 Air required (cfm)						13	13		38	17		173	134			

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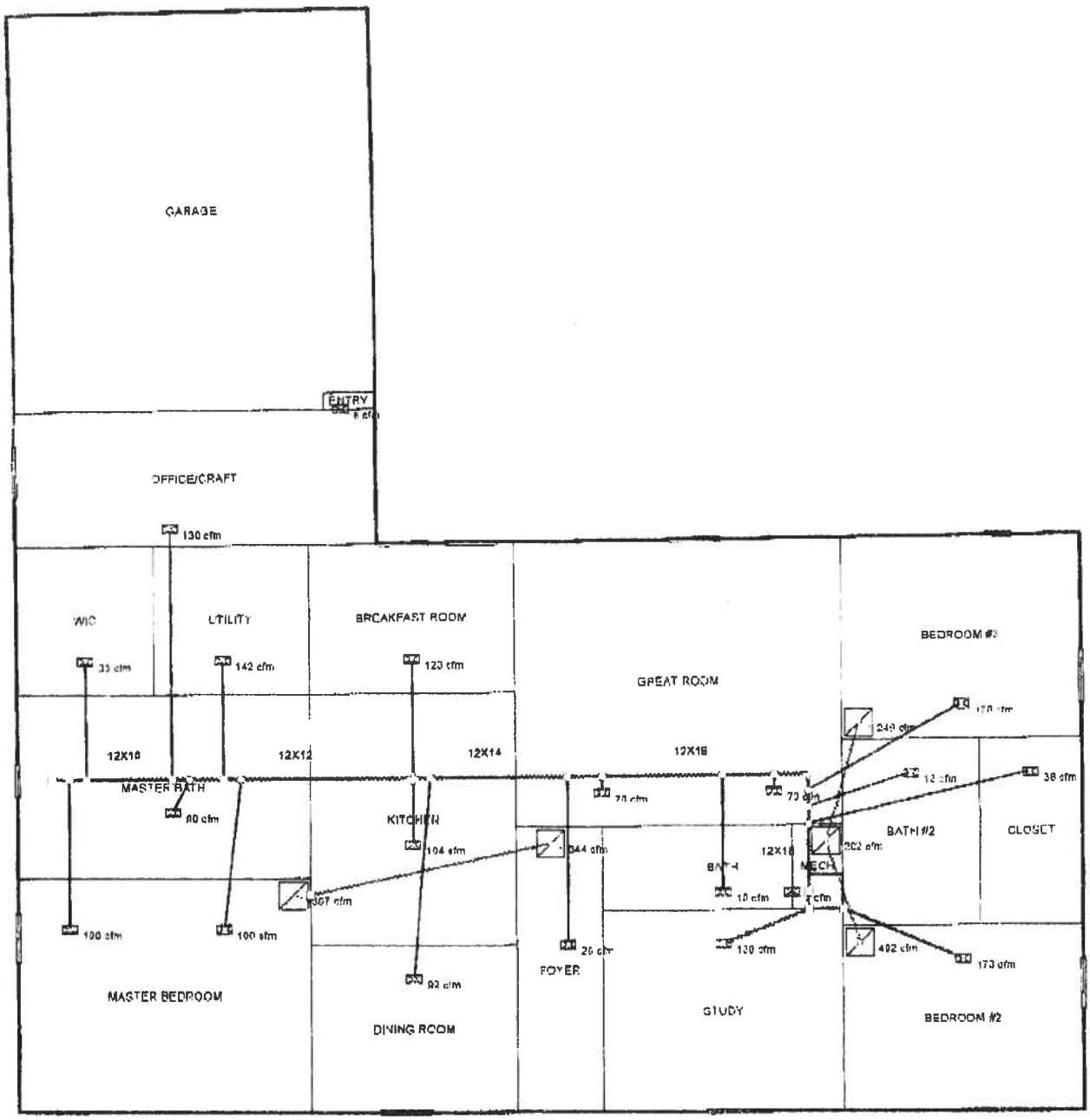
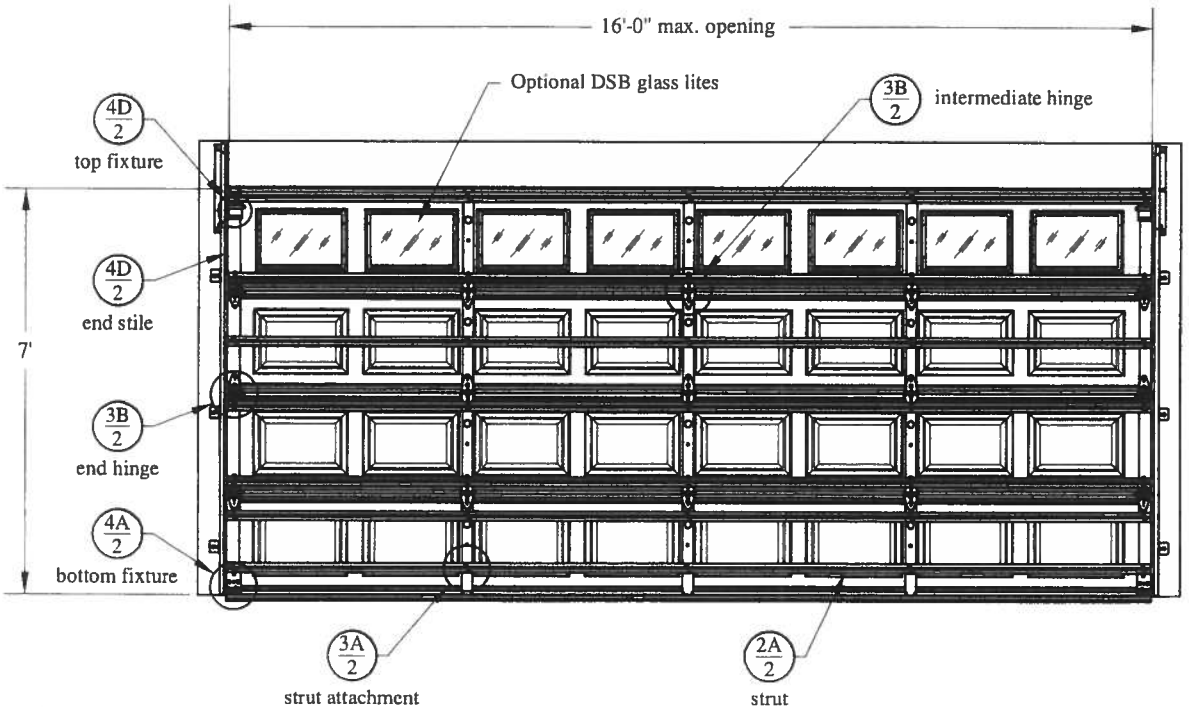
Level 1



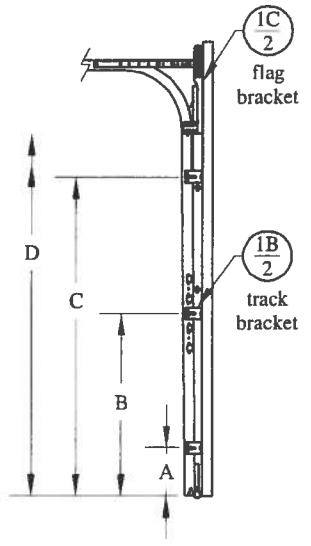
Job #: MURRAY RESIDENCE **Performed by KIM SHATTO for:** JACKSON & ROBINSON CONSTRUCTION 27591 NW CR 239 ALACHUA, FL 32615 Phone: 352-316-5135 Fax: 386-462-3457	**SHATTO HEATING & AIR, INC.** 222 WEST MAIN STREET LAKE BUTLER, FL 32054 Phone: 386-496-8224 Fax: 386-496-9065 www.shattoair.com kimshatto@shattoair.com	Scale: 1 : 111 Page 1 Right-Suite Residential 6.0.27 RSR28210 2005-May-25 01:03:43 C:\My Documents\Wrightsoft HVA..

Door Model	Gauge	Decimal
2250/2251	25	.0185
4250/4251	25	.0185
2240/2241	24	.0225
4240/4241	24	.0225
5240/5241	24	.0225



door height	section quantity	strut quantity	trk brkt per side
6'-6" to 7'-0"	4	7	3
7'-6" to 8'-0"	5	8	4
8'-3" to 8'-9"	5	9	4
9'-0" to 10'-6"	6	11	5
10'-9" to 12'-3"	7	13	6
12'-6" to 14'-0"	8	15	7

Refer to Supplemental Instructions for strut placement on doors over 7'-0" high



Track Bracket Chart		door height								
		6'-6"	6'-9"	7'-0"	7'-6"	7'-9"	8'-0"	8'-3"	8'-6"	8'-9"
track brackets	D	n/a	n/a	n/a	72"	69"	72"	81"	84"	87"
	C	60"	63"	66"	58"	55"	58"	60"	63"	66"
	B	35"	35"	38"	34"	31"	34"	32"	35"	38"
	A	10"	7"	10"	10"	7"	10"	4"	7"	10"

Track bracket locations shown above are for doors up to five sections high. Additional door sections may be added for a maximum door height of 14'-0". One track bracket (per track) must be added for each section and spaced at a distance not greater than the corresponding section height.

This door has been tested in accordance with ANSI/DASMA 108-2002
Design Pressure (DP): 18.5 pos / 20.7 neg
Test Pressure (TP): 27.8 pos / 31.1 neg

Per 2004 FBC Table 1609.6E, DP meets or exceeds basic wind speed of;
V = 110 MPH for Exposure B and mean roof height of 30' or less
V = 93 MPH for Exposure C and mean roof height of 30' or less

Maximum door size: 16'-0" wide by 14'-0" tall

Glazing and door have not been tested for windborne debris.

Wood buck and supporting structural elements shall be designed by a registered professional engineer for wind loads shown on this drawing.

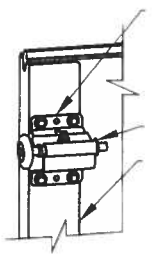
If door is not electrically operated, a lock must be installed.

Professional Engineer's seal provided only for verification of windload construction details

John E. Scates, P.E.
1411 LeMay Street #205
Carrollton, Texas 75007
Florida P.E. # 51737

FL 5519

C.H.I. OVERHEAD DOORS
SCALE nts
DATE 10-25-2005
Model 2250/51 (16'-0" wide)
C.H.I. Drawing: Z3-1607-01100



14 gauge (.070) galvanized steel top fixture. Each fixture attached with four 1/4" x 3/4" screws.

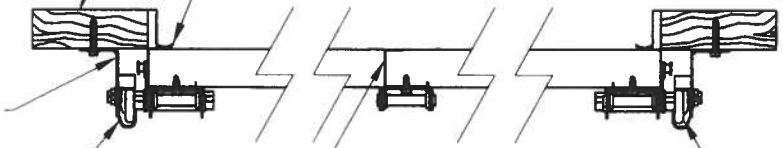
push nut

20 gauge (.036) end stile manufactured by C.H.I.

Strut, if applicable, not shown for clarity.

The 2x6 vertical wood jambs are to be grade 2 or better southern pine. Fasteners may be countersunk to provide a flush mounting surface.

2" x 7/16" (nominal) Stop molding required (not supplied by C.H.I.)



12 gauge (.095) galvanized steel track bracket fastened to wood jamb with one 5/16" x 1-5/8" wood lag screw per bracket.

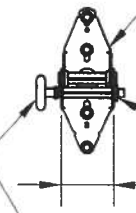
20 gauge (.036) center stile manufactured by C.H.I.

2" steel roller

2" x .051 min. galvanized steel track fastened to track brackets. Each track bracket attached with one 1/4" x 5/8" track bolt and nut.

End Hinge

16 gauge (.058) galvanized steel end hinge fastened to section with four 1/4" x 3/4" screws.



push nut

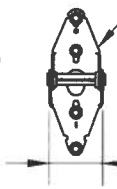
2" steel track roller.

2 3/4"

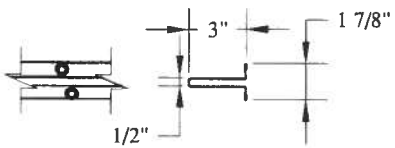
3-1/2" (min.) stem

Intermediate Hinge

18 gauge (.047) galvanized steel intermediate hinge fastened to section with four 1/4" x 3/4" screws.



2 3/4"

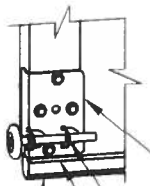


3"

1 7/8"

1/2"

20 gauge (.034) 33 ksi galvanized steel 3" strut attached with two 1/4" x 3/4" screws per stile or hinge plate.



Vinyl weatherstrip

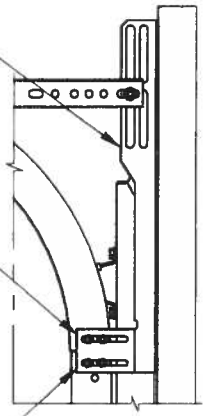
12 gauge (.102) galvanized steel bottom bracket manufactured by C.H.I. Each bracket attached with four red 1/4" x 3/4" screws.

push nut

Aluminum extrusion

Details on some views may have been omitted for clarity.

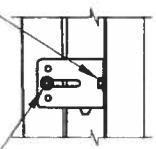
12 gauge (.086) galvanized steel flag bracket fastened to wood jamb with three 5/16" x 1-5/8" wood lag screws.



Flag bracket attached to horizontal track with two 1/4" x 5/8" track bolts and nuts.

Flag bracket attached to vertical track with two 1/4" x 5/8" track bolts and nuts.

12 gauge (.095) galvanized steel track bracket fastened to wood jamb with one 5/16" x 1-5/8" wood lag screw per bracket.



Each track bracket attached with one 1/4" x 5/8" track bolt and nut. Or two 1/4" x 11/32" rivets.

Design Load: 18.5 pos / 20.7 neg
Test Load: 27.8 pos / 31.1 neg
page 2 of 2

Professional Engineer's seal provided only for verification of windload construction details

John E. Scates, P.E.
1411 LeMay Street #205
Carrollton, Texas 75007
Florida P.E. # 51737

C.H.I. OVERHEAD DOORS

SCALE nts

DATE 10-25-2005

Model 2250/51 (16'-0" wide)
C.H.I. Drawing: Z3-1607-01100

wrightsoft Version 6

Short Form
Entire House
SHATTO HEATING & AIR, INC.

Job: MURRAY RESIDENCE
Date: May 02, 2006
By: KIM SHATTO

222 WEST MAIN STREET, LAKE BUTLER, FL 32054 Phone: 386-496-8224 Fax: 386-496-9065 Email: KIMSHATTO@SHATTOAIR.COM Web: WWW.SHATTOAIR.COM

Project Information

For: JACKSON & ROBINSON CONSTRUCTION
27591 NW CR 239, ALACHUA, FL 32615
Phone: 352-316-5135 Fax: 386-462-3457

Design Information

	Htg	Clg
Outside db (°F)	33	92
Inside db (°F)	70	75
Design TD (°F)	37	17
Daily range	-	M
Inside humidity (%)	-	50
Moisture difference (gr/lb)	-	52

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

HEATING EQUIPMENT

Make Trane
Trade XB 13
Model 2TWB3048A1000A

Efficiency	8 HSPF	
Heating input		
Heating output	45500	Btuh @ 47°F
Temperature rise	25	°F
Actual air flow	1683	cfm
Air flow factor	0.039	cfm/Btuh
Static pressure	0.00	in H2O
Space thermostat		

COOLING EQUIPMENT

Make Trane
Trade XB 13
Cond 2TWB3048A1000A
Coil TGB3F048A1000A

Efficiency	13 SEER	
Sensible cooling	35350	Btuh
Latent cooling	15150	Btuh
Total cooling	50500	Btuh
Actual air flow	1683	cfm
Air flow factor	0.051	cfm/Btuh
Static pressure	0.00	in H2O
Load sensible heat ratio	0.87	

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
MBDRM	224	6589	4641	254	238
MBATH	176	2200	1534	85	79
MCLOSET	72	1064	319	41	16
UTILITY	72	148	4132	6	212
OFFICE/CRAFT	112	2577	1463	99	75
KIT/BRKFST	299	4331	6086	167	312
DINING	143	3053	1610	118	83
GRTROOM	323	5230	2401	202	123
BATH	75	154	179	6	9
STUDY	168	3206	1686	124	87
FOYER	90	2129	1353	82	69
BDRM3	180	5511	3027	213	155
BATH2	165	1459	574	56	29
BDRM 2	180	5989	3795	231	195

Printout certified by ACCA to meet all requirements of Manual J 7th Ed.

Entire House Other equip loads Equip. @ 0.97 RSM Latent cooling	d	2279	43641 0	32800 0 31816 4721	1683	1683
TOTALS		2279	43641	36537	1683	1683

Printout certified by ACCA to meet all requirements of Manual J 7th Ed.

AAMA/NWWDA 101/I.S.2-97
TEST REPORT

Rendered to:

MI HOME PRODUCTS, INC.

SERIES/MODEL: 650
TYPE: Aluminum Triple Single Hung Window

Title	Summary of Results
AAMA Rating	H-R35 112 x 72
Operating Force	25 lb max.
Air Infiltration	0.16 cfm/ft^2
Water Resistance Test Pressure	5.25 psf
Uniform Load Deflection Test Pressure	+35.3 psf -35.0 psf
Uniform Load Structural Test Pressure	+53.0 psf -52.5 psf
Deglazing	Passed
Forced Entry Resistance	Grade 10

Reference should be made to ATI Report No. 01-41641.02 for complete test specimen description and data.

Architectural Testing

AAMA/NWWDA 101/I.S.2-97 TEST REPORT

Rendered to:

MI HOME PRODUCTS, INC.
P.O. Box 370
650 West Market Street
Gratz, Pennsylvania 17030-0370

Report No: 01-41641.02
Test Dates: 05/13/02
And: 05/16/02
Report Date: 11/12/02
Expiration Date: 05/16/06

Project Summary: Architectural Testing, Inc. (ATI) was contracted by MI Home Products, Inc. to witness testing on a Series/Model 650, aluminum triple single hung window at their facility located in Elizabethville, Pennsylvania. The sample tested successfully met the performance requirements for a H-R35 112 x 72 rating.

Test Specification: The test specimen was evaluated in accordance with AAMA/NWWDA 101/I.S.2-97, *Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors.*

Test Specimen Description:

Series/Model: 650

Type: Aluminum Triple Single Hung Window

Overall Size: 9' 3-1/2" wide by 5' 11-11/16" high

Active Sash Size (3): 3' 0-1/4" wide by 2' 10-3/4" high

Fixed Daylight Opening Size (3): 2' 8-1/4" wide by 2' 9-1/8" high

Screen Size (3): 2' 9-1/8" wide by 2' 11" high

Finish: All aluminum was painted white.

130 Derry Court
York, PA 17402-9405
phone: 717.764.7700
fax: 717.764.4129
www.archtest.com

Test Specimen Description: (Continued)

Glazing Details: The active and fixed lites utilized 5/8" thick, sealed insulating glass constructed from two sheets of 1/8" thick, clear annealed glass and a metal reinforced butyl spacer system. The active sash was channel glazed utilizing a flexible vinyl wrap-around gasket. The fixed lite was interior glazed against double-sided adhesive foam tape and secured with PVC snap-in glazing beads.

Weatherstripping:

Description	Quantity	Location
0.230" high by 0.270" backed polypile with center fin	1 Row	Fixed meeting rail
0.250" high by 0.187" backed polypile with center fin	2 Rows	Active sash stiles
1/2" by 1/2" dust plug	4 Pieces	Active sash, top and bottom of stiles
1/4" foam filled vinyl bulb seal	1 Row	Active sash, bottom rail

Frame Construction: The frame was constructed of extruded aluminum with coped, butted, and sealed corners fastened with two #8 x 1" screws through the head and sill into each jamb screw boss. End caps were utilized on the ends of the fixed meeting rail and secured with two 1-1/4" screws per cap. The meeting rail was secured to the frame utilizing two 1-1/4" screws. The mullions were secured utilizing four #8 x 1-1/4" screws through the head and sill into the mullion screw boss.

Sash Construction: The sash was constructed of extruded aluminum with coped, butted, and sealed corners fastened with two #8 x 1-1/2" screws through the rails into each stiles' screw boss.

Screen Construction: The screen was constructed from roll-formed aluminum with keyed corners. The fiberglass mesh was secured with a flexible spline.

Test Specimen Description: (Continued)

Hardware:

Description	Quantity	Location
Metal cam lock with keeper	1	Midspan of each active meeting rail with adjacent keepers
Plastic tilt latch	2	Each active sash meeting rail ends
Metal tilt pin	2	Each active sash bottom rail ends
Balance assembly	2	Each active sash contained one in each jamb
Screen plunger	2	Each screen contained two 4" from rail ends on top rail

Drainage: Sloped sill

Reinforcement: No reinforcement was utilized.

Installation: The test specimen was installed into a 2 x 8 #2 Spruce-Pine-Fir wood buck with #8 x 1-5/8" drywall screws every 8" on center around the nail fin. Polyurethane was used as a sealant under the nail fin and around the exterior perimeter.

Test Results:

The results are tabulated as follows:

Paragraph	Title of Test - Test Method	Results	Allowed
2.2.1.6.1	Operating Force	25 lbs	30 lbs max.
2.1.2	Air Infiltration (ASTM E 283-91) @ 1.57 psf (25 mph)	0.16 cfm/ft^2	0.3 cfm/ft^2 max.

Note #1: The tested specimen meets the performance levels specified in AAMA/NWWDA 101/I.S. 2-97 for air infiltration.

2.1.3	Water Resistance (ASTM E 547-00) (with and without screen) WTP = 2.86 psf	No leakage	No leakage

Test Results: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
2.1.4.1	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the mullion) (Loads were held for 52 seconds)		
	@ 15.0 psf (positive)	0.15"	0.41" max.
	@ 15.0 psf (negative)	0.29"	0.41" max.
2.1.4.2	Uniform Load Structural (ASTM E 330-97) (Measurements reported were taken on the mullion) (Loads were held for 10 seconds)		
	@ 22.5 psf (positive)	0.01"	0.29" max.
	@ 22.5 psf (negative)	0.01"	0.29" max.
2.2.1.6.2	Deglazing Test (ASTM E 987-88) In operating direction at 70 lbs		
	Right sash, meeting rail	0.12"/25%	0.50"/100%
	Right sash, bottom rail	0.12"/25%	0.50"/100%
	Middle sash, meeting rail	0.12"/25%	0.50"/100%
	Middle sash, bottom rail	0.12"/25%	0.50"/100%
	Left sash, meeting rail	0.12"/25%	0.50"/100%
	Left sash, bottom rail	0.12"/25%	0.50"/100%
	In remaining direction at 50 lbs		
	Right sash, right stile	0.06"/12%	0.50"/100%
	Right sash, left stile	0.06"/12%	0.50"/100%
	Middle sash, right stile	0.06"/12%	0.50"/100%
	Middle sash, left stile	0.06"/12%	0.50"/100%
	Left sash, right stile	0.06"/12%	0.50"/100%
	Left sash, left stile	0.06"/12%	0.50"/100%
2.1.8	Forced Entry Resistance (ASTM F 588-97)		
	Type: A Grade: 10		
	Lock Manipulation Test	No entry	No entry
	Test A1 through A5	No entry	No entry
	Test A7	No entry	No entry
	Lock Manipulation Test	No entry	No entry

Test Results: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
Optional Performance			
4.3	Water Resistance (ASTM E 547-00) (with and without screen) WTP = 5.25 psf	No leakage	No leakage
4.4.1	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the mullion) (Loads were held for 52 seconds)		
	@ 35.3 psf (positive)	0.46"	See Note #2
	@ 35.0 psf (negative)	0.41"	See Note #2
4.4.2	Uniform Load Structural (ASTM E 330-97) (Measurements reported were taken on the mullion) (Loads were held for 10 seconds)		
	@ 53.0 psf (positive)	0.03"	0.29" max.
	@ 52.5 psf (negative)	0.02"	0.29" max.

Note #2: The Uniform Load Deflection test is not an AAMA/NWWDA 101/I.S.2-97 requirement for this product designation. The data is recorded in this report for information only.

Detailed drawings, representative samples of the test specimen, and a copy of this report will be retained by ATI for a period of four years. The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the above referenced specification. This report does not constitute certification of this product, which may only be granted by the certification program administrator. This report may not be reproduced, except in full, without written approval of Architectural Testing, Inc.

For ARCHITECTURAL TESTING, INC:

Mark A. Hess
Technician

David A. Kranz
Director - Product/Physical Testing

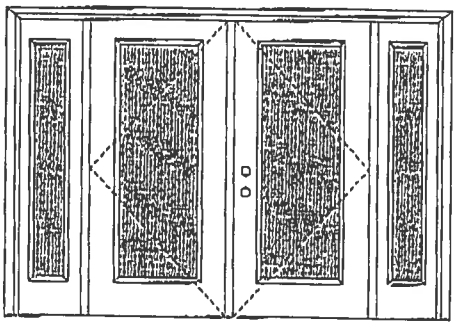
MAH:vlm
01-41641.02

OXXO
Glazed Outswing Unit

COP-WL-MA0165-02

FIBERGLASS DOORS

APPROVED ARRANGEMENT:



Warnock Hersey

Test Data Review Certificate #3026447A; #3026447B; #3026447C and COP/Test Report Validation Matrix #3026447A-001, 002, 003; #3026447B-001, 002, 003; #3026447C-001, 002, 003 provides additional information - available from the ITS/WH website (www.etsomko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

Note:
Units of other sizes are covered by this report as long as the panels used do not exceed 3'0" x 6'8".

Double Door with 2 Sidelites
Maximum unit size = 12'0" x 6'8"

Design Pressure

+55.0/-55.0
Limited water unless special threshold design is used.

Large Missile Impact Resistance

Hurricane protective system (shutters) is REQUIRED.

Actual design pressure and impact resistant requirements for a specific building design and geographic location is determined by ASCE 7-national, state or local building codes specify the edition required.

MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed – see MAD-WL-MA0015-02 or MAD-WL-MA0018-02 and MAD-WL-MA0041-02.

MINIMUM INSTALLATION DETAIL:

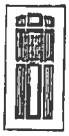
Compliance requires that minimum installation details have been followed – see MID-WL-MA0005-02.

APPROVED DOOR STYLES:

1/4 GLASS:


100 Series


133, 135 Series

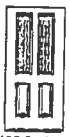

136 Series


622 Series

1/2 GLASS:


105 Series*


106, 160 Series*


129 Series*


12 R/L, 22 R/L, 24 R/L Series*


107 Series*


106 Series


204 Series

*This glass kit may also be used in the following door styles: 5-panel; 5-panel with scroll; Eyebrow 5-panel; Eyebrow 5-panel with scroll.

Oakcraft Wood-grain Textured FIBERGLASS ENTRY DOORS

ARTEK Non-Textured Fiberglass Entry Doors

June 17, 2002
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

PREMDOR Collection Premium Quality Doors

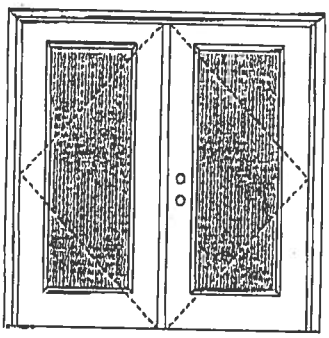
Exclusively from Masonite® Masonite International Corporation

XX
Glazed Outswing Unit

COP-WL-MA0167-02

8'0" FIBERGLASS DOORS

APPROVED ARRANGEMENT:



Warnock Hersey

Test Data Review Certificate #3026447A; #3026447B; #3026447C and COP/Test Report Validation Matrix #3026447A-001, 002, 003; #3026447B-001, 002, 003; #3026447C-001, 002, 003 provides additional information - available from the ITS/WH website (www.etlsemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

Note:
Units of other sizes are covered by this report as long as the panels used do not exceed 3'0" x 8'0".

Double Door
Maximum unit size = 6'0" x 8'0"

Design Pressure
+47.0/-47.0
Limited water unless special threshold design is used.

Large Missile Impact Resistance
Hurricane protective system (shutters) is REQUIRED.

Actual design pressure and impact resistant requirements for a specific building design and geographic location is determined by ASCE 7-national, state or local building codes specify the action required.

MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed – see MAD-WL-MA0012-02 and MAD-WL-MA0041-02.

MINIMUM INSTALLATION DETAIL:

Compliance requires that minimum installation details have been followed – see MID-WL-MA0002-02.

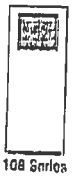
APPROVED DOOR STYLES:

1/4 GLASS:

922 Series

1/2 GLASS:

404 Series



108 Series

Oakcraft Warm Grain Textured Fiberglass Entry Doors

ARTEK Non-Textured Fiberglass Entry Doors

June 17, 2002
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

PREMDOR Collection Premium Quality Doors

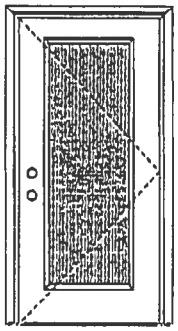
Exclusively from Masonite®
Masonite International Corporation

X
Glazed Outswing Unit

COP-WL-MA0161-02

FIBERGLASS DOORS

APPROVED ARRANGEMENT:



Warnock Hersey

Test Data Review Certificate #30264474; #30264478; #30264476 and COP/Test Report Validation Matrix #30264474-001, 002, 003, #30264478-001, 002, 003; #30264476-001, 002, 003 provides additional information - available from the ITS/WH website (www.otisanmko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

Note:
Units of other sizes are covered by this report as long as the panel used does not exceed 3'0" x 6'8".

Single Door
Maximum unit size = 3'0" x 6'8"

Design Pressure
+55.0/-55.0
Limited water unless special threshold design is used.

Large Missile Impact Resistance
Hurricane protective system (shutters) is REQUIRED.

Actual design pressure and impact resistant requirements for a specific building design and geographic location is determined by ASCE 7-national, state or local building codes specify the edition required.

MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed – see MAD-WL-MA0011-02 and MAD-WL-MA0041-02.

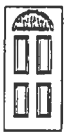
MINIMUM INSTALLATION DETAIL:

Compliance requires that minimum installation details have been followed – see MID-WL-MA0001-02.

APPROVED DOOR STYLES:

1/4 GLASS:


100 Series

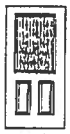

133, 135 Series


136 Series


822 Series

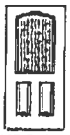
1/2 GLASS:


105 Series


106, 160 Series*


129 Series*


12 R/L, 23 R/L, 24 R/L Series*


107 Series*


108 Series


304 Series

*This glass kit may also be used in the following door style: Eyebrow 5-panel with scroll.

Oakcraft
Woodgrain Texture
FIBERGLASS ENTRY DOORS

ARTEK™
Non-Textured Fiberglass Entry Doors

June 17, 2002
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

PREMDOR Collection
Premium Quality Doors

Exclusively from Masonite®
Masonite International Corporation

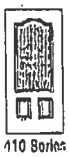
X
Glazed Outswing Unit

FIBERGLASS DOORS

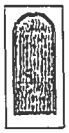
APPROVED DOOR STYLES:

3/4 GLASS:


404 Series


410 Series

FULL GLASS:


109 Series


114, 120, 122 Series


152 Series


149 Series


300 Series

CERTIFIED TEST REPORTS:

CTLA-805W-2

Certifying Engineer and License Number: Ramesh Patel, P.E./20224

Unit Tested In Accordance with Miami-Dade BCCO PA202.

Door panels constructed from 0.075" minimum thick fiberglass skins. Both stiles constructed of 1-5/8" laminated lumber. Top end rails constructed of 31/32" wood. Bottom end rails constructed of 31/32" wood composite. Interior cavity of slab filled with rigid polyurethane foam core. Slab glazed with insulated glass mounted in a rigid plastic lip lite surround.

Frame constructed of wood with an extruded aluminum threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN
ACCORDANCE WITH
MIAMI-DADE BCCO PA202

COMPANY NAME
CITY, STATE

To the best of my knowledge and ability the above side-hinged exterior door unit conforms to the requirements of the 2001 Florida Building Code, Chapter 17 (Structural Tests and Inspections).

Kurt L Balthazor

State of Florida, Professional Engineer
Kurt Balthazor, P.E. – License Number 56533

Warnock Hersey

Test Data Review Certificate #3026447A; #3026447B; #3026447C and COP/Test Report Validation Matrix #3026447A-001, 002, 003; #3026447B-001, 002, 003; #3026447C-001, 002, 003 provides additional information - available from the ITS/WH website (www.etsemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

Oakcraft
Weatherlite Textured
FIBERGLASS ENTRY DOORS

ARTEK
Non-Textured Fiberglass Entry Doors

June 17, 2002
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

PREMDOR Collection
Premium Quality Doors

Exclusively from Masonite®
Masonite International Corporation

New Construction Subterranean Termite Soil Treatment Record

OMB Approval No. 2502-0525

This form is completed by the licensed Pest Control Company.

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. This information is mandatory and is required to obtain benefits. HUD may not collect this information, and you are not required to complete this form, unless it displays a currently valid OMB control number.
Section 24 CFR 200.926d(b)(3) requires that the sites for HUD insured structures must be free of termite hazards. This information collection requires the builder to certify that an authorized Pest Control company performed all required treatment for termites, and that the builder guarantees the treated area against infestation for one year. Builders, pest control companies, mortgage lenders, homebuyers, and HUD as a record of treatment for specific homes will use the information collected. The information is not considered confidential.

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

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

24590

Section 1: General Information (Treating Company Information)

Company Name: Aspen Pest Control, Inc.
Company Address: 301 NW Cole Terrace City Lake City State FL Zip 32055
Company Business License No. JF104376 Company Phone No. 386-755-3611
FHA/VA Case No. (if any) _____

Section 2: Builder Information

Company Name: Ronald Mark Robinson Company Phone No. _____

Section 3: Property Information

Location of Structure(s) Treated (Street Address or Legal Description, City, State and Zip) 294 SW Avalon Blvd
Lake City FL

Type of Construction (More than one box may be checked) ☑ Slab ☐ Basement ☐ Crawl ☐ Other _____
Approximate Depth of Footing: Outside 12 Inside 12 Type of Fill Sand

Section 4: Treatment Information

Date(s) of Treatment(s) 4-26-06
Brand Name of Product(s) Used Tyrus 1.2
EPA Registration No. 53883-92
Approximate Final Mix Solution % 0.25%
Approximate Size of Treatment Area: Sq. ft. 3534 Linear ft. 272 Linear ft. of Masonry Voids 272
Approximate Total Gallons of Solution Applied 676
Was treatment completed on exterior? ☐ Yes ☑ No
Service Agreement Available? ☑ Yes ☐ No
Note: Some state laws require service agreements to be issued. This form does not preempt state law.

Attachments (List) _____
Comments _____

Name of Applicator(s) Steve Brannon Certification No. (if required by State law) JF104376

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

Authorized Signature _____ Date 4-26-06

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

NICHOLAS
PAUL
GEISLER
ARCHITECT
N.C.A.R.B. Certified

1758 NW Brown Road
Lake City, FL 32055
386/755-9021

28 JULY 2006

JOHNNY KEARSE, BUILDING OFFICIAL
COLUMBIA COUNTY, BUILDING DEPT.
COLUMBIA COUNTY COURTHOUSE ANNEX
LAKE CITY, FLORIDA 32055

RE: MURREY RESIDENCE, LOT 13, OAKFIELD ACRES, PHASE 2
PERMIT Nr.: 06-184 24590

DEAR SIR:

PLEASE BE ADVISED OF THE FOLLOWING CHANGES TO THE ABOVE REFERENCED RESIDENTIAL PROJECT:

IN LIEU OF THE ALL-THREAD ROD SYSTEM OF WALL ANCHORAGE AS DETAILED IN THE CONSTRUCTION DOCUMENTS, IT IS PERMISSIBLE TO CONSTRUCT THE STRUCTURAL WALLS AS FOLLOWS:

1. ALL STUD TO PLATE CONNECTIONS SHALL BE AS PER "SIMPSON" SP6, BOTH TOP PLATE AND BOTTOM SILL.

2. ALL BEARING WALL SILL PLATES SHALL BE P/T AND SECURED TO THE SLAB/FOUNDATION WITH 1/2"ϕ X 10" A.B., 2"ϕ WASHERS AND NUTS, AT 48" O.C.

3. WALL SHEATHING SHALL BE "WINDSTORM" OSB SECURED TO THE WALL FRAMING WITH 8d NAILS AT 4" O.C. EDGES AND AT 8" O.C. ALONG INTERMEDIATE SUPPORTS.

4. DOOR AND WINDOW HEADERS SHALL BE "SIMPSON" ST24 STRAPS AT EACH END OF EACH HEADER, SECURED TO THE KING/JACK STUDS.

5. AT EACH CORNER, THE BUILT-UP STUD CORNER POST SHALL BE ANCHORED TO THE FOUNDATION/SLAB WITH "SIMPSON" HD2A ANCHORS - THE ANCHOR BOLT SHALL BE A MINIMUM 5/8"ϕ X 10" LONG ALL-THREAD ROD, PLACED IN DRILLED 3/4"ϕ X 7" DEEP HOLES AND SECURED BY "SIMPSON" "SET" 2 PART EPOXY CONSTRUCTION ADHESIVE.

6. ALL MANUFACTURERS REQUIRED NAILS AND/OR BOLTS SHALL BE INSTALLED AT ALL CONNECTORS.

THE WALLS THUS CONSTRUCTED WILL MEET AND/OR EXCEED THE 2004 FBC SECTION 1609 WIND UPLIFT REQUIREMENTS.

SHOULD YOU HAVE ANY FURTHER QUESTIONS WITH THIS, PLEASE CALL FOR ASSISTANCE.

YOURS TRULY,
NICHOLAS PAUL GEISLER, ARCHITECT AR0007005

CERTIFICATE OF OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

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

Parcel Number 09-5S-16-03498-213 **Building permit No.** 000024590

Use Classification SFD,UTILITY **Fire:** 0.00

Permit Holder RONALD MACK ROBINSON **Waste:** 0.00

Owner of Building JOHN A. MURRAY, JR **Total:** 0.00

Location: 298 SW DUNLOP GLEN

Date: 11/02/2006

John D. Rice

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)