Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only Application # 0605-31 Date Received 5/10/06 By LT Permit # 10751/24511

Application Approved by - Zoning Official BLK Date 12.05.06 Plans Examiner OK JTH Date 5-10-06

Flood Zone X Per Plat Development Permit N/A Zoning RSF-2 Land Use Plan Map Category Res. Low Den.

Comments M.F.E 99.5 & Elevation Letter Required

Applicants Name Justin J Jenkins Phone 386 719 2240 FAX 719-2234

Address 694 SW Main Blvd, Lake City, FL 32025

Owners Name James C. + Susan D. Sparks Phone 386 752-9589

911 Address 172 SW Wise Dr., Lake City, FL 32024

Contractors Name Jenkins Contracting, LLC - Michael Jenkins Phone 386 719 2240

Address 694 SW Main Blvd, Lake City, FL 32025

Fee Simple Owner Name & Address James C. + Susan D. Sparks 314 SW Rose Creek Dr Lake City 320

Bonding Co. Name & Address NONE

Architect/Engineer Name & Address Mark Disosway P.E, 163 SW Midtown Pl. St 103, Lake City 3202

Mortgage Lenders Name & Address NONE

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

Property ID Number 23-4S-16-03113-103 Estimated Cost of Construction $82,850.00

Subdivision Name Wise Estates Lot 3 Block A Unit ___ Phase ___

Driving Directions SR 47S, Right on CR 242, Right on Wise Dr, Property is 3rd lot on Left.

Type of Construction Single Family Residential Number of Existing Dwellings on Property 0

Total Acreage .52 Lot Size 22651.2 sf Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 30' ✓ Side 30' ✓ Side 60' ✓ Rear 40' ✓

Total Building Height 17'8" Number of Stories 1 Heated Floor Area 1657 sf Roof Pitch 6/12

Porch 145 Garage 432 TOTAL 2234

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.

Owner Builder or Agent (Including Contractor)

Contractor Signature

Contractors License Number CGC1507466

Competency Card Number ___

NOTARY STAMP/SEAL

STATE OF FLORIDA
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me this 09 day of 05 20 06.

Personally known X or Produced Identification ___

Notary Signature

M. L. Church
Commission # DD425255
Expires May 3, 2009
Bonded Troy Fain - Insurance, Inc. 800-385-70

JW called 5.12.06 - talked w/ Justin.

Columbia County Building Department
Culvert Permit

Culvert Permit No.
000001075

DATE 05/15/2006 PARCEL ID # 23-4S-16-03113-103

APPLICANT JUSTIN JENKINS PHONE 719-2240

ADDRESS 694 SW MAIN BLVD LAKE CITY FL 32025

OWNER JAMES & SUSAN SPARKS PHONE 752-9589

ADDRESS 172 SW WISE DRIVE LAKE CITY FL 32024

CONTRACTOR MICHAEL JENKINS PHONE 719-2240

LOCATION OF PROPERTY 47S, TR ON 242, TR ON WISE DR, 3RD LOT ON LEFT

SUBDIVISION/LOT/BLOCK/PHASE/UNIT WISE ESTATES 3

SIGNATURE Justin Jenkins

INSTALLATION REQUIREMENTS

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

INSTALLATION NOTE: Turnouts will be required as follows:
a) a majority of the current and existing driveway turnouts are paved, or;
b) the driveway to be served will be paved or formed with concrete.
Turnouts shall be concrete or paved a minimum of 12 feet wide or the width of the concrete or paved driveway, whichever is greater. The width shall conform to the current and existing paved or concreted turnouts.

[ ] Culvert installation shall conform to the approved site plan standards.

[ ] Department of Transportation Permit installation approved standards.

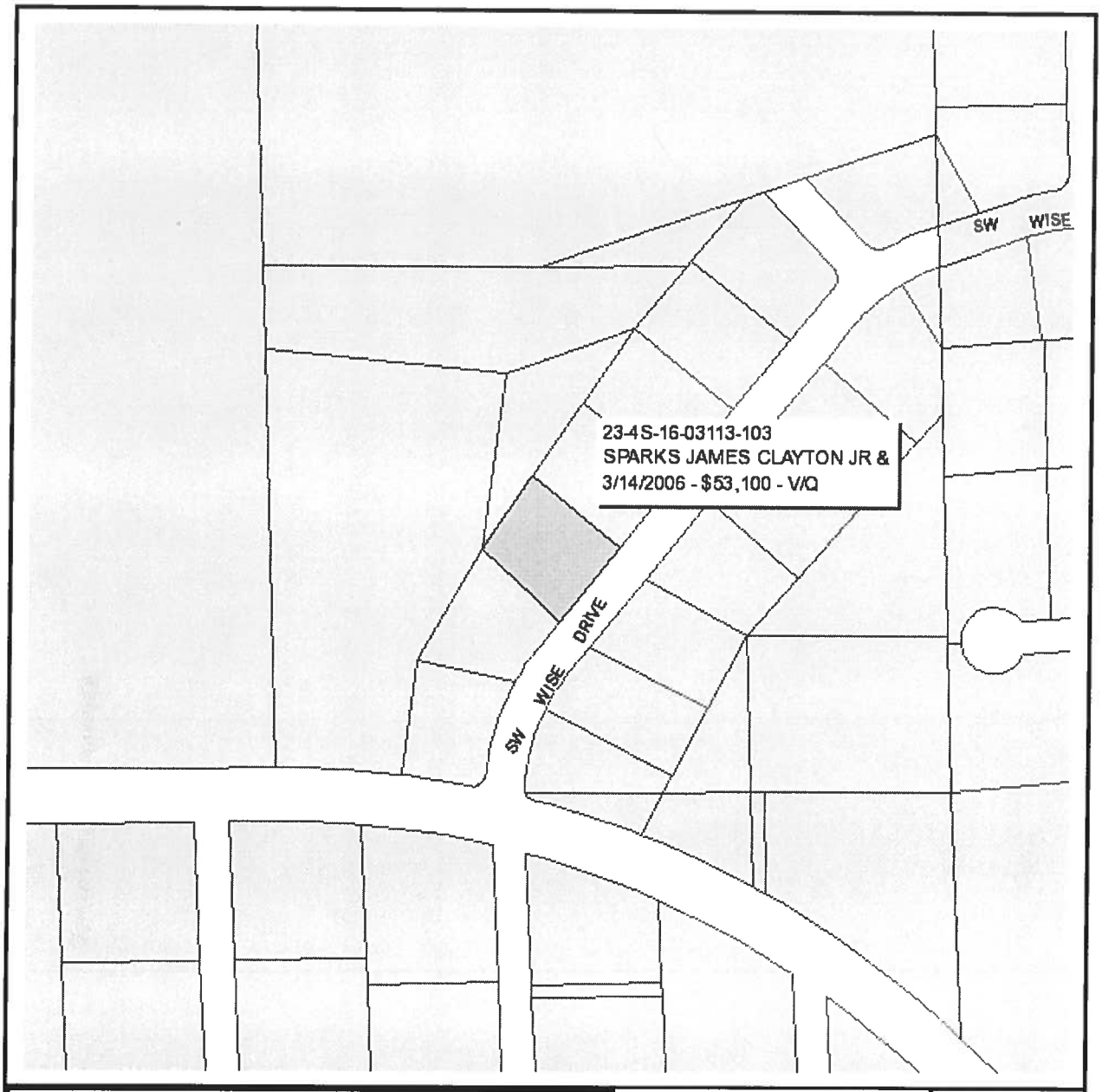
[ ] Other _____

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

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

Amount Paid 25.00

COLUMBIA COUNTY GATEWAY TO FLORIDA

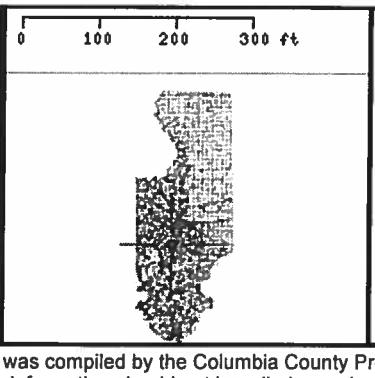


Columbia County Property Appraiser

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

PARCEL: 23-4S-16-03113-103 - VACANT (000000)

Name:	SPARKS JAMES CLAYTON JR &	LandVal	$25,500.00
Site:	WISE	BldgVal	$0.00
	SUSAN DIANNE SPARKS	ApprVal	$25,500.00
Mail:	394 SW ROSE CREEK DR	JustVal	$25,500.00
	LAKE CITY, FL 320249518	Assd	$25,500.00
Sales	3/14/2006 $53,100.00 V / Q	Exmpt	$0.00
Info	7/22/2004 $22,900.00 V / Q	Taxable	$25,500.00



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.

Prepared by:
Michael H. Harrell
Abstract & Title Services, Inc.
283 NW Cole Terrace
Lake City, Florida 32055

Warranty Deed

Individual to Individual

THIS WARRANTY DEED made the 14th day of March, 2006, Martin D. Shelbo, and his wife, Kimberly J. Shelbo, hereinafter called the grantor, to James Clayton Sparks, Jr., and his wife, Susan Diane Sparks whose post office address is: 394 SW Rose Creek Drive, Lake City, FL 32024-9518 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 corporation)

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: Parcel ID# R03113-103

Lot 3, Block A, of Wise Estates, a subdivision according to plat thereof recorded in Plat Book 7, Pages 164-167, of the Public Records of Columbia County, Florida.

TOGETHER with all 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, 2005.

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:

_____ _____
Witness: Martin D. Shelbo

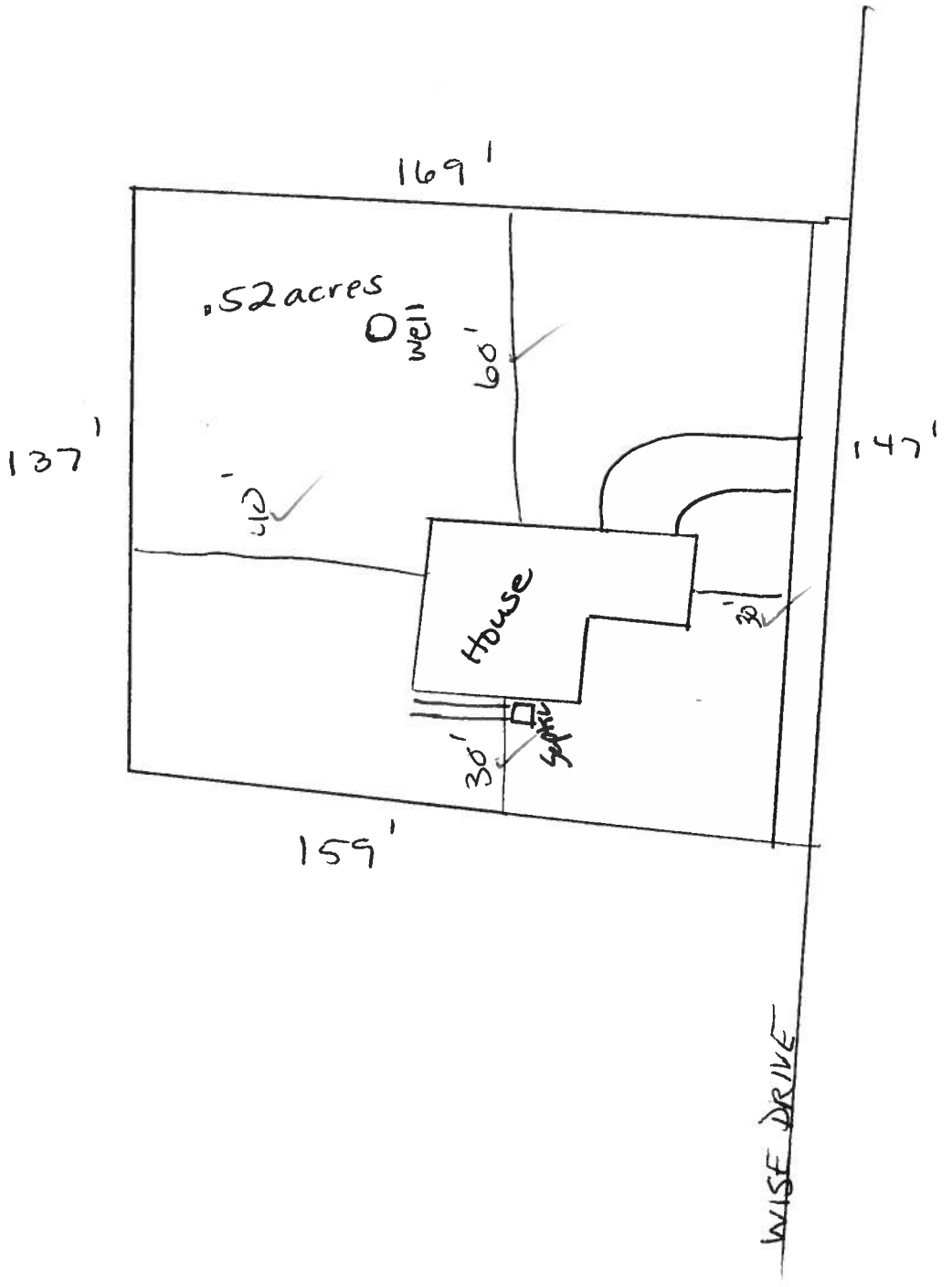
_____
Printed Name:

_____ _____
Witness: Kimberly J. Shelbo

_____
Printed Name:

STATE OF FLORIDA
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before



SPARKS PLOT PLAN

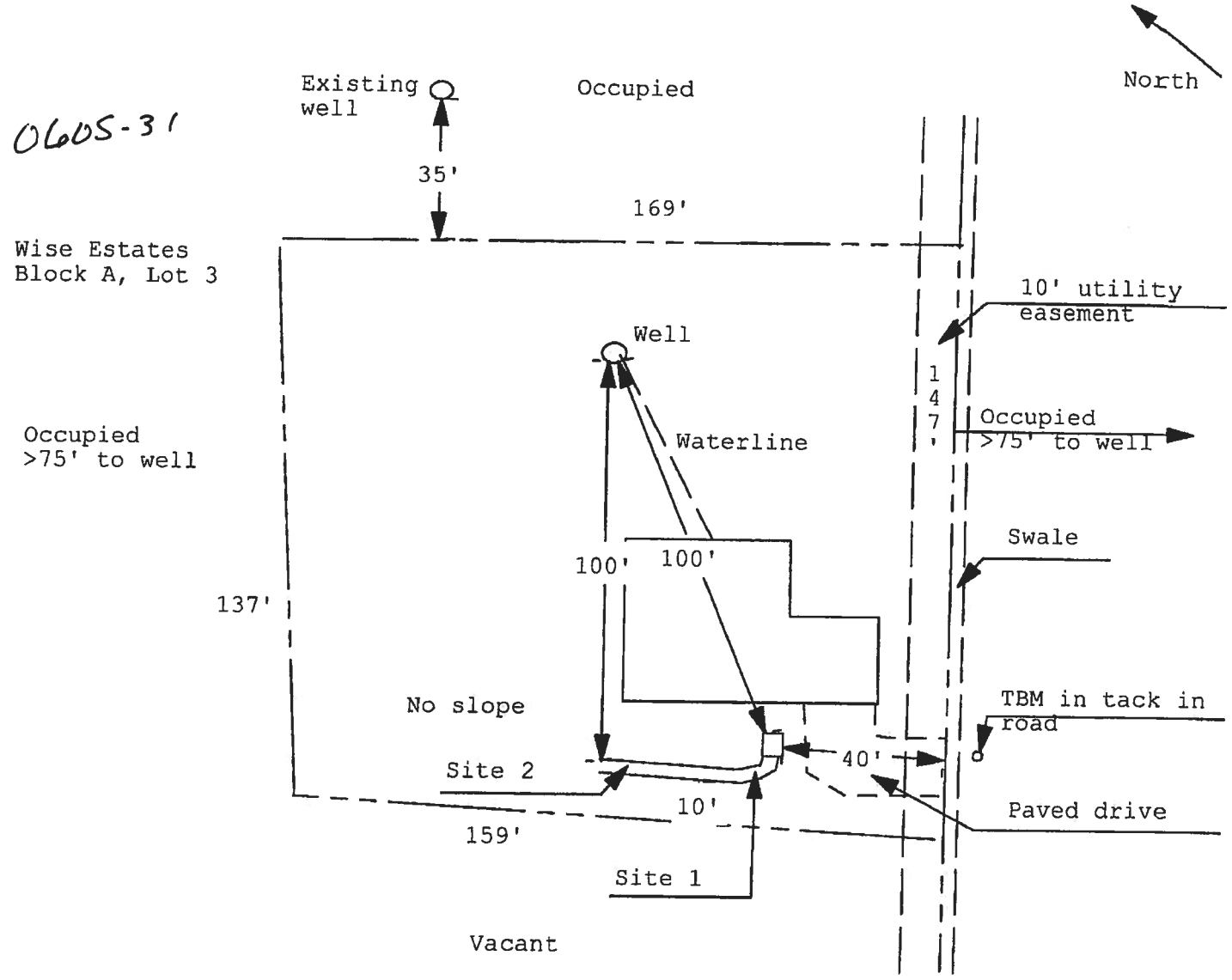
LOT 3 Wise Estates

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

Permit Application Number: 06-0452N

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

SPARKS/CR 05-3506



1 inch = 40 feet

Site Plan Submitted By Paul Lloyd **Date** 5/3/06

Plan Approved X **Not Approved** ____ **Date** 5-9-06

By [signature] Columbia **CPHU**

Notes:

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

Permit Application Number: 06-0452N

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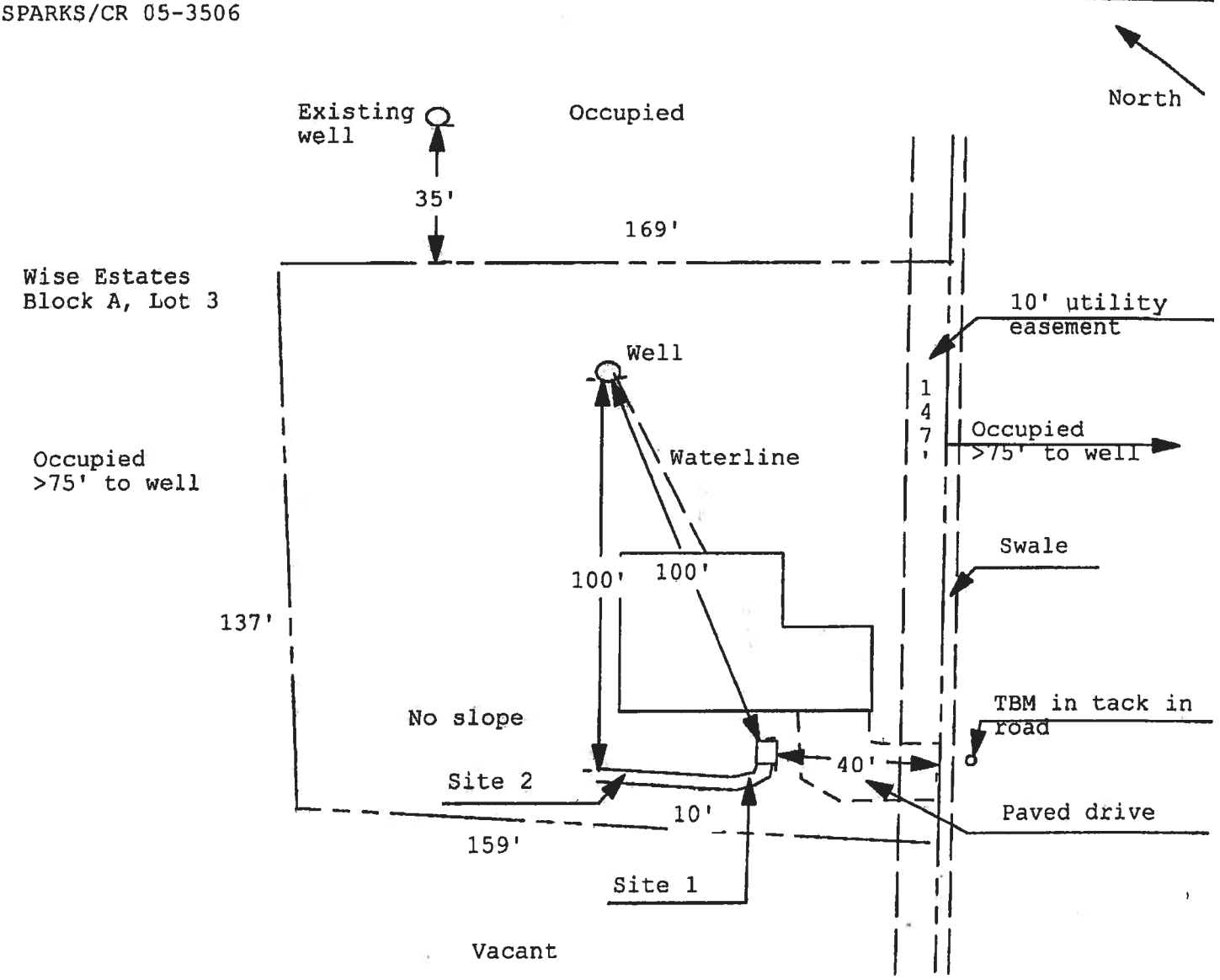
SPARKS/CR 05-3506



1 inch = 40 feet

Site Plan Submitted By Paul Floyd Date 5/3/06

Plan Approved X Not Approved ____ Date 5-9-06

By [signature] Columbia CPHU

Notes: |

NOTICE OF COMMENCEMENT FORM
COLUMBIA COUNTY, FLORIDA

THIS DOCUMENT MUST BE RECORDED AT THE COUNTY CLERKS OFFICE BEFORE YOUR FIRST INSPECTION.

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

Tax Parcel ID Number 23-4S-16-03113-103

1. **Description of property: (legal description of the property and street address or 911 address)**
LOT 3 BLOCK A WISE ESTATE S/D WD 1022-91. WD 1077-1340. LOT 3 BLOCK A WISE ESTATE S/D WD 1022-191. WD 1077-1340. 172 SW Wise Drive, Lake City, FL 32024

2. **General description of improvement:** Construction of Dwelling

3. **Owner Name & Address** James C. and Susan D. Sparks, 394 SW Rose Creek Dr., Lake City, FL 32024 **Interest in Property** FEE SIMPLE

4. **Name & Address of Fee Simple Owner (If other than owner):** NONE

5. **Contractor Name** Jenkins Contracting, LLC **Phone Number** (386)719-2240
Address 694 SW main Blvd Lake City, FL 32025

6. **Surety Holders Name** NONE **Phone Number**
Address
Amount of Bond

7. **Lender Name** NONE **Phone Number**
Address

8. **Persons within the State of Florida designated by the Owner upon whom notices or other documents may be served as provided by section 718.13 (1)(a) 7; Florida Statutes:**
Name NONE **Phone Number**
Address

9. **In addition to himself/herself the owner designates** NONE **of**
to receive a copy of the Lienor's Notice as provided in Section 713.13 (1) –
(a) 7. Phone Number of the designee

10. **Expiration date of the Notice of Commencement (tl**
(Unless a different date is specified)

Inst:2006011004 Date:05/04/2006 Time:16:44
DC,P.DeWitt Cason,Columbia County B:1082 P:2286

NOTICE AS PER CHAPTER 713, Florida Statutes:
The owner must sign the notice of commencement and no one else may be permitted to sign in his/her stead.

James C Sparks II
Susan D Sparks
Signature of Owner

Sworn to (or affirmed) and subscribed before day of 05/03/ **, 20** 06

NOTARY STAMP/SEAL
M. L. Church
Commission # DD425257
Expires May 3, 2009
Bonded Troy Fain - Insurance, Inc. 800-385-7019

M L Church
Signature of Notary

RECEIVED
MAY 04 2006
Jenkins Contracting LLC
Lake City

FORM 600A-2004 EnergyGauge® 4.1

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**604051JenkinsContracting**	Builder:	
Address:	**Lot: 3, Sub: Wise Estates, Plat:**	Permitting Office:	Columbia
City, State:	**, FL**	Permit Number:	24511
Owner:	**Sparks Spec House**	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?	Yes	
6.	Conditioned floor area (ft²)	1657 ft²	
7.	Glass type [1] and area: (Label reqd. by 13-104.4.5 if not default)		
a.	U-factor: (or Single or Double DEFAULT)	7a. Description (Dble Default) 258.3 ft²	Area
b.	SHGC: (or Clear or Tint DEFAULT)	7b. (Clear) 258.3 ft²	
8.	Floor types		
a.	Slab-On-Grade Edge Insulation	R=0.0, 192.0(p) ft	
b.	N/A		
c.	N/A		
9.	Wall types		
a.	Frame, Wood, Exterior	R=13.0, 1015.7 ft²	
b.	Frame, Wood, Exterior	R=13.0, 172.0 ft²	
c.	N/A		
d.	N/A		
e.	N/A		
10.	Ceiling types		
a.	Under Attic	R=30.0, 1685.0 ft²	
b.	N/A		
c.	N/A		
11.	Ducts		
a.	Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 170.0 ft	
b.	N/A		

12.	Cooling systems		
a.	Central Unit	Cap: 36.0 kBtu/hr SEER: 11.00	
b.	N/A		
c.	N/A		
13.	Heating systems		
a.	Electric Heat Pump	Cap: 36.0 kBtu/hr HSPF: 7.30	
b.	N/A		
c.	N/A		
14.	Hot water systems		
a.	Electric Resistance	Cap: 40.0 gallons EF: 0.93	
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)		

RECEIVED
MAY 05 2006
Jenkins Contracting LLC
Lake City

Glass/Floor Area: 0.16 Total as-built points: 24327 Total base points: 24922 **PASS**

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

PREPARED BY: _____

DATE: 5-5-06

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: _____

1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 3, Sub: Wise Estates, Plat: , , FL,** 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	1657.0	20.04	5977.1	Double, Clear	SE	1.5	5.5	60.0	42.75	0.86	2208.6	
				Double, Clear	S	99.0	5.5	20.0	35.87	0.43	309.8	
				Double, Clear	SE	6.4	8.0	30.0	42.75	0.54	688.5	
				Double, Clear	E	4.0	8.0	40.0	42.06	0.73	1220.6	
				Double, Clear	SE	1.5	5.5	20.0	42.75	0.86	736.2	
				Double, Clear	SW	1.5	4.5	16.0	40.16	0.80	517.2	
				Double, Clear	NW	1.5	0.0	15.0	25.97	0.52	200.9	
				Double, Clear	NW	1.5	5.5	20.0	25.97	0.91	473.6	
				Double, Clear	NW	7.0	8.0	13.3	25.97	0.66	228.2	
				Double, Clear	NE	1.5	5.5	15.0	29.56	0.91	401.5	
				Double, Clear	SE	1.5	3.5	9.0	42.75	0.72	277.9	
				As-Built Total:				**258.3**			**7262.9**	

WALL TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior	13.0	1015.7	1.50	1523.6
Exterior	1187.7	1.70	2019.1	Frame, Wood, Exterior	13.0	172.0	1.50	258.0
Base Total:	**1187.7**		**2019.1**	**As-Built Total:**		**1187.7**		**1781.6**

DOOR TYPES	Area X	BSPM	= Points	Type	Area X	SPM	= Points
Adjacent	20.0	1.60	32.0	Exterior Insulated	20.0	4.10	82.0
Exterior	50.0	4.10	205.0	Adjacent Insulated	20.0	1.60	32.0
				Exterior Insulated	30.0	4.10	123.0
Base Total:	**70.0**		**237.0**	**As-Built Total:**	**70.0**		**237.0**

CEILING TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM X SCM	= Points
Under Attic	1657.0	1.73	2866.6	Under Attic	30.0	1685.0	1.73 X 1.00	2915.1
Base Total:	**1657.0**		**2866.6**	**As-Built Total:**		**1685.0**		**2915.1**

FLOOR TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Slab	192.0(p)	-37.0	-7104.0	Slab-On-Grade Edge Insulation	0.0	192.0(p	-41.20	-7910.4
Raised	0.0	0.00	0.0					
Base Total:			**-7104.0**	**As-Built Total:**		**192.0**		**-7910.4**

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 3, Sub: Wise Estates, Plat: , , FL,** PERMIT #:

BASE				AS-BUILT						
INFILTRATION	Area X	BSPM	= Points		Area X	SPM	= Points			
	1657.0	10.21	16918.0		1657.0	10.21	16918.0			
Summer Base Points: 20913.8				**Summer As-Built Points:**						**21204.1**
Total Summer Points	X System Multiplier	= Cooling Points		Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points	
				(sys 1: Central Unit 36000 btuh ,SEER/EFF(11.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS)						
20913.8	**0.4266**	**8921.8**		21204 **21204.1**	1.00 **1.00**	(1.09 x 1.147 x 0.91) **1.138**	0.310 **0.310**	1.000 **1.000**	7485.1 **7485.1**	

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 3, Sub: Wise Estates, Plat: , , FL,** 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	**1657.0**	**12.74**	**3799.8**	Double, Clear	SE	1.5	5.5	60.0	14.71	1.11	983.1
				Double, Clear	S	99.0	5.5	20.0	13.30	3.66	973.4
				Double, Clear	SE	6.4	8.0	30.0	14.71	1.74	768.7
				Double, Clear	E	4.0	8.0	40.0	18.79	1.12	841.8
				Double, Clear	SE	1.5	5.5	20.0	14.71	1.11	327.7
				Double, Clear	SW	1.5	4.5	16.0	16.74	1.11	298.1
				Double, Clear	NW	1.5	0.0	15.0	24.30	1.04	377.6
				Double, Clear	NW	1.5	5.5	20.0	24.30	1.00	487.9
				Double, Clear	NW	7.0	8.0	13.3	24.30	1.02	330.5
				Double, Clear	NE	1.5	5.5	15.0	23.57	1.01	356.3
				Double, Clear	SE	1.5	3.5	9.0	14.71	1.28	169.8
				As-Built Total:				**258.3**			**5914.9**

WALL TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	= Points
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior	13.0	1015.7	3.40	3453.4
Exterior	1187.7	3.70	4394.5	Frame, Wood, Exterior	13.0	172.0	3.40	584.8
Base Total:	**1187.7**		**4394.5**	**As-Built Total:**		**1187.7**		**4038.2**

DOOR TYPES	Area X	BWPM	= Points	Type	Area X	WPM	= Points
Adjacent	20.0	8.00	160.0	Exterior Insulated	20.0	8.40	168.0
Exterior	50.0	8.40	420.0	Adjacent Insulated	20.0	8.00	160.0
				Exterior Insulated	30.0	8.40	252.0
Base Total:	**70.0**		**580.0**	**As-Built Total:**	**70.0**		**580.0**

CEILING TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM X	WCM =	Points
Under Attic	1657.0	2.05	3396.8	Under Attic	30.0	1685.0	2.05 X	1.00	3454.3
Base Total:	**1657.0**		**3396.8**	**As-Built Total:**		**1685.0**			**3454.3**

FLOOR TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	= Points
Slab	192.0(p)	8.9	1708.8	Slab-On-Grade Edge Insulation	0.0	192.0(p	18.80	3609.6
Raised	0.0	0.00	0.0					
Base Total:			**1708.8**	**As-Built Total:**		**192.0**		**3609.6**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 3, Sub: Wise Estates, Plat: , , FL,** PERMIT #:

BASE				AS-BUILT						
INFILTRATION	Area X	BWPM	= Points		Area X	WPM	= Points			
	1657.0	-0.59	-977.6		1657.0	-0.59	-977.6			
Winter Base Points:			**12902.3**	**Winter As-Built Points:**						**16619.3**
Total Winter Points	X System Multiplier	= Heating Points		Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points	
				(sys 1: Electric Heat Pump 36000 btuh ,EFF(7.3) Ducts:Unc(S),Unc(R),Int(AH),R6.0						
				16619.3	1.000	(1.069 x 1.169 x 0.93)	0.467	1.000		9022.3
12902.3	**0.6274**	**8094.9**		**16619.3**	**1.00**	**1.162**	**0.467**	**1.000**		**9022.3**

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 3, Sub: Wise Estates, Plat: , , FL,** 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		2635.00	7905.0	40.0	0.93	3	1.00	2606.67	1.00	7820.0	
				As-Built Total:						**7820.0**	

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points	Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points
8922	**8095**	**7905**	**24922**	**7485**	**9022**	**7820**	**24327**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 3, Sub: Wise Estates, Plat: , , FL,** PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	612.1	Comply with efficiency requirements in Table 612.1.ABC.3.2. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	612.1	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%.	
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	604.1, 602.1	Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 83.4

The higher the score, the more efficient the home.

Sparks Spec House, Lot: 3, Sub: Wise Estates, Plat: , , FL,

1.	New construction or existing	New	12.	Cooling systems	
2.	Single family or multi-family	Single family		a. Central Unit	Cap: 36.0 kBtu/hr
3.	Number of units, if multi-family	1			SEER: 11.00
4.	Number of Bedrooms	3		b. N/A	
5.	Is this a worst case?	Yes			
6.	Conditioned floor area (ft²)	1657 ft²		c. N/A	
7.	Glass type [1] and area: (Label reqd. by 13-104.4.5 if not default)				
	a. U-factor:	Description Area	13.	Heating systems	
	(or Single or Double DEFAULT) 7a.	(Dble Default) 258.3 ft²		a. Electric Heat Pump	Cap: 36.0 kBtu/hr
	b. SHGC:				HSPF: 7.30
	(or Clear or Tint DEFAULT) 7b.	(Clear) 258.3 ft²		b. N/A	
8.	Floor types				
	a. Slab-On-Grade Edge Insulation	R=0.0, 192.0(p) ft		c. N/A	
	b. N/A				
	c. N/A		14.	Hot water systems	
9.	Wall types			a. Electric Resistance	Cap: 40.0 gallons
	a. Frame, Wood, Exterior	R=13.0, 1015.7 ft²			EF: 0.93
	b. Frame, Wood, Exterior	R=13.0, 172.0 ft²		b. N/A	
	c. N/A				
	d. N/A			c. Conservation credits	
	e. N/A			(HR-Heat recovery, Solar	
10.	Ceiling types			DHP-Dedicated heat pump)	
	a. Under Attic	R=30.0, 1685.0 ft²	15.	HVAC credits	
	b. N/A			(CF-Ceiling fan, CV-Cross ventilation,	
	c. N/A			HF-Whole house fan,	
11.	Ducts			PT-Programmable Thermostat,	
	a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 170.0 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: _____ Date: _____

Address of New Home: _____ City/FL Zip: _____

**NOTE: The home's estimated energy performance score is only available through the FLA/RES computer program. This is not a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStar™ 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.

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: 0605-31

Contractor Justin Jenkins Owner James & Susan Sparks 172 SW Wise Dr.

On the date of May 10, 2006 application 0605-31 and 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 0605-31 when making reference to this application.

1. In the garage area show compliance with the FRC-2004 sections R309 R309.1 Opening protection: Openings from a private garage directly into a room used for sleeping purposes shall not be permitted. Other openings between the garage and residence shall be equipped with solid wood doors not less than 13/8 inches (35 mm) in thickness, solid or honeycomb core steel doors not less than 13/8 inches (35 mm) thick, or 20-minute fire-rated doors.

2. R309.1.1 Duct penetration: Ducts in the garage and ducts penetrating the walls or ceilings separating the dwelling from the garage shall be constructed of a minimum No. 26 gage (0.48 mm) sheet steel or other approved material and shall have no openings into the garage. R309.2 Separation required: The garage shall be separated from the residence and its attic area by not less than ½-inch (12.7 mm) gypsum board applied to the garage side. Garages beneath habitable rooms shall be separated from all habitable rooms above by not less than 5/8-inch (15.9 mm) Type X gypsum board or equivalent. Where the separation is a floor-ceiling assembly, the structure supporting the separation shall also be protected by not less than ½-inch (12.7 mm) gypsum board or equivalent.
3. R309.1 Opening protection. Openings from a private garage directly into a room used for sleeping purposes shall not be permitted. Other openings between the garage and residence shall be equipped with solid wood doors not less than 13/8 inches (35 mm) in thickness, solid or honeycomb core steel doors not less than 13/8 inches (35 mm) thick, or 20-minute fire-rated doors.
4. The attic access opening (pull down ladder type attic egress door) in the garage ceiling shall have the same protection requirements of FRC-2004 C: R309.2 Separation required. The garage shall be separated from the residence and its attic area by not less than ½-inch (12.7 mm) gypsum board applied to the garage side. Garages beneath habitable rooms shall be separated from all habitable rooms above by not less than 5/8-inch (15.9 mm) Type X gypsum board or

equivalent. Where the separation is a floor-ceiling assembly, the structure supporting the separation shall also be protected by not less than ½-inch (12.7 mm) gypsum board or equivalent. Other openings between the garage and residence shall be equipped with solid wood doors not less than 13/8 inches (35 mm) in thickness, solid or honeycomb core steel doors not less than 13/8 inches (35 mm) thick, or 20-minute fire-rated doors.

Thank you,

Joe Haltiwanger
Plan Examiner
Columbia County Building Department

Residential System Sizing Calculation

Summary

Sparks Spec House
, FL

Project Title:
604051JenkinsContracting

Class 3 Rating
Registration No. 0
Climate: North

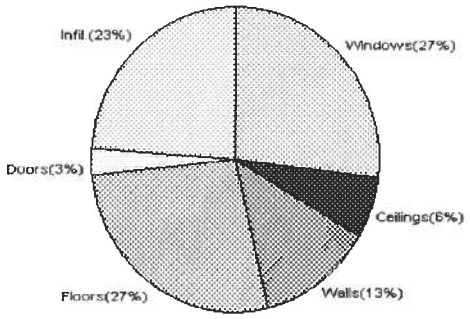
5/5/2006

Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M) Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)					
Winter design temperature	33	F	Summer design temperature	92	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	37	F	Summer temperature difference	17	F
Total heating load calculation	**30649**	**Btuh**	**Total cooling load calculation**	**27447**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	117.5	36000	Sensible (SHR = 0.75)	118.1	27000
Heat Pump + Auxiliary(0.0kW)	117.5	36000	Latent	196.0	9000
			Total (Electric Heat Pump)	131.2	36000

WINTER CALCULATIONS

Winter Heating Load (for 1657 sqft)

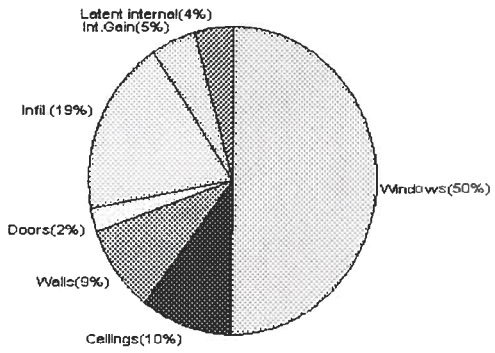
Load component			Load	
Window total	258	sqft	8315	Btuh
Wall total	1188	sqft	3900	Btuh
Door total	70	sqft	907	Btuh
Ceiling total	1685	sqft	1986	Btuh
Floor total	192	sqft	8383	Btuh
Infiltration	177	cfm	7159	Btuh
Duct loss			0	Btuh
Subtotal			**30649**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**30649**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 1657 sqft)

Load component			Load	
Window total	258	sqft	13795	Btuh
Wall total	1188	sqft	2477	Btuh
Door total	70	sqft	686	Btuh
Ceiling total	1685	sqft	2790	Btuh
Floor total			0	Btuh
Infiltration	93	cfm	1727	Btuh
Internal gain			1380	Btuh
Duct gain			0	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Total sensible gain			**22856**	**Btuh**
Latent gain(ducts)			0	Btuh
Latent gain(infiltration)			3391	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1200	Btuh
Total latent gain			**4591**	**Btuh**
TOTAL HEAT GAIN			**27447**	**Btuh**



For Florida residences only

EnergyGauge® System Sizing
PREPARED BY:
DATE: 5-5-06

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Sparks Spec House
, FL

Project Title:
604051JenkinsContracting

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F

5/5/2006

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	60.0	32.2	1931 Btuh
2	2, Clear, Metal, 0.87	N	20.0	32.2	644 Btuh
3	2, Clear, Metal, 0.87	NW	30.0	32.2	966 Btuh
4	2, Clear, Metal, 0.87	W	40.0	32.2	1288 Btuh
5	2, Clear, Metal, 0.87	NW	20.0	32.2	644 Btuh
6	2, Clear, Metal, 0.87	NE	16.0	32.2	515 Btuh
7	2, Clear, Metal, 0.87	SE	15.0	32.2	483 Btuh
8	2, Clear, Metal, 0.87	SE	20.0	32.2	644 Btuh
9	2, Clear, Metal, 0.87	SE	13.3	32.2	428 Btuh
10	2, Clear, Metal, 0.87	SW	15.0	32.2	483 Btuh
11	2, Clear, Metal, 0.87	NW	9.0	32.2	290 Btuh
	Window Total		258(sqft)		8315 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1016	3.3	3336 Btuh
2	Frame - Wood - Ext(0.09)	13.0	172	3.3	565 Btuh
	Wall Total		1188		3900 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exterior		30	12.9	388 Btuh
2	Insulated - Adjacent		20	12.9	259 Btuh
3	Insulated - Exterior		20	12.9	259 Btuh
	Door Total		70		907Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1685	1.2	1986 Btuh
	Ceiling Total		1685		1986Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	192.0 ft(p)	43.7	8383 Btuh
	Floor Total		192		8383 Btuh
			Zone Envelope Subtotal:		23490 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.80	13256	176.7	7159 Btuh
Ductload	Unsealed, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh
Zone #1			**Sensible Zone Subtotal**		**30649 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Sparks Spec House
, FL

Project Title:
604051JenkinsContracting

Class 3 Rating
Registration No. 0
Climate: North

5/5/2006

WHOLE HOUSE TOTALS

	Subtotal Sensible	30649 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	30649 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)

For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Sparks Spec House
, FL

Project Title:
604051JenkinsContracting

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F

5/5/2006

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	60.0	32.2	1931 Btuh
2	2, Clear, Metal, 0.87	N	20.0	32.2	644 Btuh
3	2, Clear, Metal, 0.87	NW	30.0	32.2	966 Btuh
4	2, Clear, Metal, 0.87	W	40.0	32.2	1288 Btuh
5	2, Clear, Metal, 0.87	NW	20.0	32.2	644 Btuh
6	2, Clear, Metal, 0.87	NE	16.0	32.2	515 Btuh
7	2, Clear, Metal, 0.87	SE	15.0	32.2	483 Btuh
8	2, Clear, Metal, 0.87	SE	20.0	32.2	644 Btuh
9	2, Clear, Metal, 0.87	SE	13.3	32.2	428 Btuh
10	2, Clear, Metal, 0.87	SW	15.0	32.2	483 Btuh
11	2, Clear, Metal, 0.87	NW	9.0	32.2	290 Btuh
	Window Total		258(sqft)		8315 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1016	3.3	3336 Btuh
2	Frame - Wood - Ext(0.09)	13.0	172	3.3	565 Btuh
	Wall Total		1188		3900 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exterior		30	12.9	388 Btuh
2	Insulated - Adjacent		20	12.9	259 Btuh
3	Insulated - Exterior		20	12.9	259 Btuh
	Door Total		70		907Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1685	1.2	1986 Btuh
	Ceiling Total		1685		1986Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	192.0 ft(p)	43.7	8383 Btuh
	Floor Total		192		8383 Btuh
			Zone Envelope Subtotal:		23490 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.80	13256	176.7	7159 Btuh
Ductload	Unsealed, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh
Zone #1			**Sensible Zone Subtotal**		**30649 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Sparks Spec House
, FL

Project Title:
604051JenkinsContracting

Class 3 Rating
Registration No. 0
Climate: North

5/5/2006

WHOLE HOUSE TOTALS

	Subtotal Sensible	30649 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	30649 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)

For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Sparks Spec House
, FL

Project Title:
604051JenkinsContracting

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 5/5/2006

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Whole House

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	60.0	0.0	60.0	29	60	3602 Btuh
2	2, Clear, 0.87, None,N,N	N	99ft.	5.5ft.	20.0	0.0	20.0	29	29	579 Btuh
3	2, Clear, 0.87, None,N,N	NW	6.41	8ft.	30.0	0.0	30.0	29	60	1801 Btuh
4	2, Clear, 0.87, None,N,N	W	4ft.	8ft.	40.0	11.9	28.1	29	80	2578 Btuh
5	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	20.0	0.0	20.0	29	60	1201 Btuh
6	2, Clear, 0.87, None,N,N	NE	1.5ft.	4.5ft.	16.0	0.0	16.0	29	60	961 Btuh
7	2, Clear, 0.87, None,N,N	SE	1.5ft.	0ft.	15.0	15.0	0.0	29	63	434 Btuh
8	2, Clear, 0.87, None,N,N	SE	1.5ft.	5.5ft.	20.0	8.1	11.9	29	63	979 Btuh
9	2, Clear, 0.87, None,N,N	SE	7ft.	8ft.	13.3	13.3	0.0	29	63	385 Btuh
10	2, Clear, 0.87, None,N,N	SW	1.5ft.	5.5ft.	15.0	6.1	8.9	29	63	734 Btuh
11	2, Clear, 0.87, None,N,N	NW	1.5ft.	3.5ft.	9.0	0.0	9.0	29	60	540 Btuh
	Window Total				258 (sqft)					13795 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	1015.7	2.1	2119 Btuh
2	Frame - Wood - Ext	13.0/0.09	172.0	2.1	359 Btuh
	Wall Total		1188 (sqft)		2477 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Exterior	30.0	9.8	294 Btuh
2	Insulated - Adjacent	20.0	9.8	196 Btuh
3	Insulated - Exterior	20.0	9.8	196 Btuh
	Door Total	70 (sqft)		686 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	1685.0	1.7	2790 Btuh
	Ceiling Total		1685 (sqft)		2790 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	192 (ft(p))	0.0	0 Btuh
	Floor Total		192.0 (sqft)		0 Btuh

			Zone Envelope Subtotal:		19749 Btuh

Infiltration	Type	ACH	Volume(cuft)	CFM=	Load
	SensibleNatural	0.42	13256	92.8	1727 Btuh

Internal gain	Occupants	Btuh/occupant	Appliance	Load
	6	X 230 +	0	1380 Btuh

Duct load			
Unsealed, R6.0, Supply(Attic), Return(Attic)	DGM = 0.00	0.0 Btuh

Sensible Zone Load	**22856 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Sparks Spec House
, FL

Project Title:
604051JenkinsContracting

Class 3 Rating
Registration No. 0
Climate: North

5/5/2006

WHOLE HOUSE TOTALS

	Sensible Envelope Load All Zones	**22856 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**22856 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
Whole House	**Total sensible gain**	**22856 Btuh**
Totals for Cooling	Latent infiltration gain (for 54 gr. humidity difference)	3391 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**4591 Btuh**
	TOTAL GAIN	**27447 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)

For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Sparks Spec House
, FL

Project Title:
604051JenkinsContracting

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 5/5/2006
This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Zone #1: Main

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	60.0	0.0	60.0	29	60	3602 Btuh
2	2, Clear, 0.87, None,N,N	N	99ft.	5.5ft.	20.0	0.0	20.0	29	29	579 Btuh
3	2, Clear, 0.87, None,N,N	NW	6.41	8ft.	30.0	0.0	30.0	29	60	1801 Btuh
4	2, Clear, 0.87, None,N,N	W	4ft.	8ft.	40.0	11.9	28.1	29	80	2578 Btuh
5	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	20.0	0.0	20.0	29	60	1201 Btuh
6	2, Clear, 0.87, None,N,N	NE	1.5ft.	4.5ft.	16.0	0.0	16.0	29	60	961 Btuh
7	2, Clear, 0.87, None,N,N	SE	1.5ft.	0ft.	15.0	15.0	0.0	29	63	434 Btuh
8	2, Clear, 0.87, None,N,N	SE	1.5ft.	5.5ft.	20.0	8.1	11.9	29	63	979 Btuh
9	2, Clear, 0.87, None,N,N	SE	7ft.	8ft.	13.3	13.3	0.0	29	63	385 Btuh
10	2, Clear, 0.87, None,N,N	SW	1.5ft.	5.5ft.	15.0	6.1	8.9	29	63	734 Btuh
11	2, Clear, 0.87, None,N,N	NW	1.5ft.	3.5ft.	9.0	0.0	9.0	29	60	540 Btuh
	Window Total				258 (sqft)					13795 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	1015.7	2.1	2119 Btuh
2	Frame - Wood - Ext	13.0/0.09	172.0	2.1	359 Btuh
	Wall Total		1188 (sqft)		2477 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Exterior	30.0	9.8	294 Btuh
2	Insulated - Adjacent	20.0	9.8	196 Btuh
3	Insulated - Exterior	20.0	9.8	196 Btuh
	Door Total	70 (sqft)		686 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	1685.0	1.7	2790 Btuh
	Ceiling Total		1685 (sqft)		2790 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	192 (ft(p))	0.0	0 Btuh
	Floor Total		192.0 (sqft)		0 Btuh

			Zone Envelope Subtotal:		19749 Btuh

Infiltration	Type	ACH	Volume(cuft)	CFM=	Load
	SensibleNatural	0.42	13256	92.8	1727 Btuh

Internal gain	Occupants	Btuh/occupant	Appliance	Load
	6	X 230 +	0	1380 Btuh

Duct load	Unsealed, R6.0, Supply(Attic), Return(Attic)	DGM = 0.00	0.0 Btuh
		Sensible Zone Load	**22856 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Sparks Spec House
, FL

Project Title:
604051JenkinsContracting

Class 3 Rating
Registration No. 0
Climate: North

5/5/2006

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**22856 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**22856 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**22856 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	3391 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**4591 Btuh**
	TOTAL GAIN	**27447 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)

For Florida residences only

Residential Window Diversity

MidSummer

Sparks Spec House
, FL

Project Title:
604051JenkinsContracting

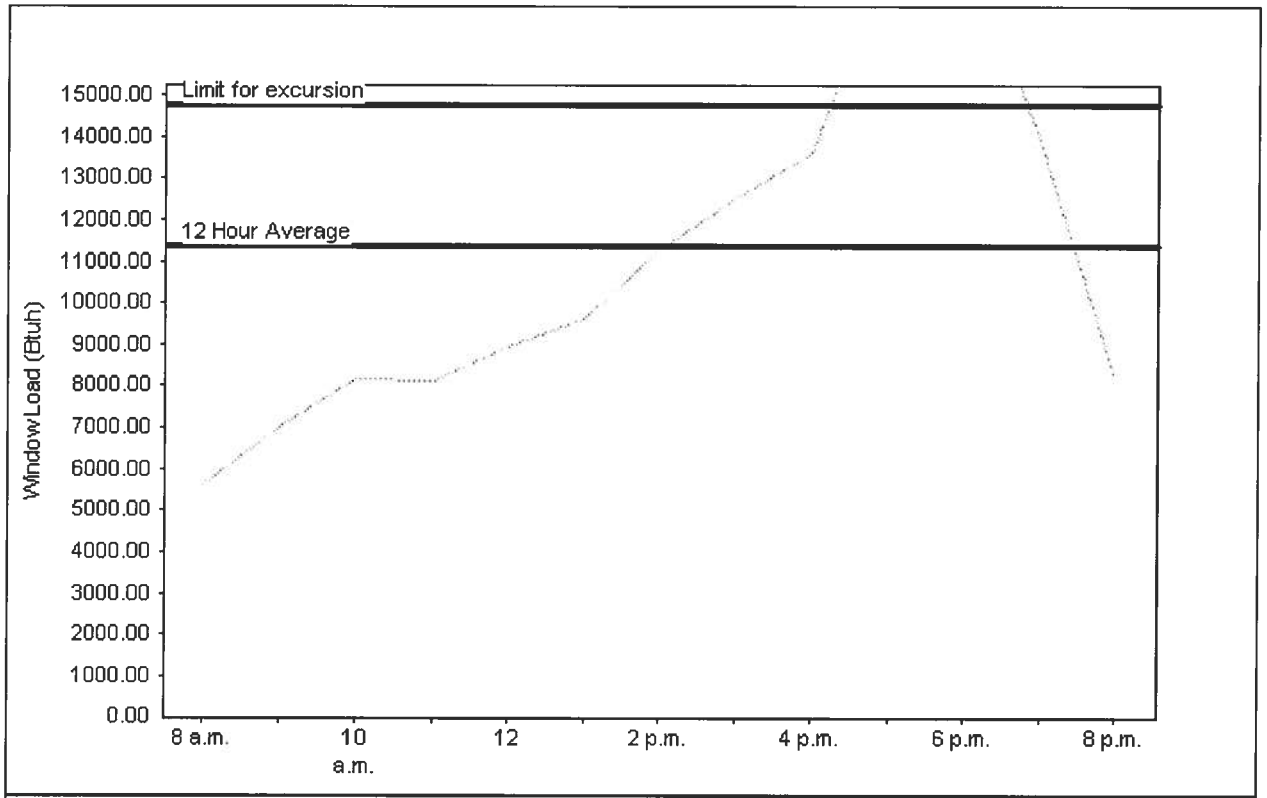
Class 3 Rating
Registration No. 0
Climate: North

5/5/2006

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	11363 Btu
Summer setpoint	75 F	Peak window load for July	19025 Btu
Summer temperature difference	17 F	Excusion limit(130% of Ave.)	14772 Btu
Latitude	29 North	Window excursion (July)	4253 Btuh

WINDOW Average and Peak Loads



Total July Window Load(Radiation and conduction)

This application has glass areas that produce large heat gains for part of the day. Variable air volume devices are required to overcome spikes in solar gain for one or more rooms. Install a zoned system or provide zone control for problem rooms. Single speed equipment may not be suitable for the application.

EnergyGauge® System Sizing for Florida residences only
PREPARED BY: Ben Lynch
DATE: 5-5-06

Pieces/Bundle ___22
Bundles/Square___3/100 sq.ft.
Squares/Pallet.___16

non-prorated coverage for shingles and application labor for the initial 5 years, plus an option for transferability*; prorated coverage for application labor and shingles for balance of limited warranty period; 5-year limited wind warranty*.

Elk Starter Strip
52 Bundles/Pallet
18 Pallets/Truck
936 Bundles/Truck
19 Pieces/Bundle
1 Bundle = 120.33 linear feet

Available Colors: Antique Slate, Weatheredwood, Shakewood, Sablewood, Hickory, Barkwood**, Forest Green, Wedgewood**, Birchwood**, Sandalwood.
Gallery Collection: Balsam Forest™, Weathered Sage™, Sienna Sunset™.

All Prestique, Raised Profile and Seal-A-Ridge roofing products contain Elk WindGuard® sealant. WindGuard activates with the sun's heat, bonding shingles into a wind and weather resistant cover that resists blow-offs and leaks.

Check for availability with built-in StainGuard® treatment to inhibit the discoloration of roofing granules caused by the growth of certain types of algae. Not available in Sablewood.

All Prestique and Raised Profile shingles meet UL® Wind Resistant (UL 997) and Class "A" Fire Ratings (UL 790); and ASTM Specifications D 3018, Type-I; D 3161, Type-I; E 108 and the requirements of ASTM D 3462.

All Prestique and Raised Profile shingles meet the latest Metro Dade building code requirements.

*See actual limited warranty for conditions and limitations.
**Check for product availability.

SPECIFICATIONS

SCOPE: Work includes furnishing all labor, materials and equipment necessary to complete installation of (name) shingles specified herein. Color shall be (name of color). Hip and ridge type to be Elk Seal-A-Ridge with formula *FLX*.

All exposed metal surfaces (flashing, vents, etc.) to be painted with matching Elk roof accessory paint.

PREPARATION OF ROOF DECK: Roof deck to be dry, well-seasoned 1" x 6" (25.4mm x 152.4mm) boards; exterior-grade plywood (exposure 1 rated sheathing) at least 3/8" (9.525mm) thick conforming to the specifications of the American Plywood Association; 7/16" (11.074mm) oriented strandboard; or chipboard. Most fire retardant plywood decks are NOT approved substrates for Elk shingles. Consult Elk Field Service for application specifications over other decks and other slopes.

MATERIALS: Underlayment for standard roof slopes, 4" per foot (101.6/304.8mm) or greater: apply non-perforated No. 15 or 30 asphalt-saturated felt underlayment. For low slopes (4" per foot (101.6/304.8mm) to a minimum of 2" per foot (50.8/304.8mm)), use two plies of underlayment overlapped a minimum of 19". Fasteners shall be of sufficient length and holding power for securing material as required by the application instructions printed on shingle wrapper.

For areas where algae is a problem, shingles shall be (name) with StainGuard treatment, as manufactured by the Elk Tuscaloosa plant. Hip and ridge type to be Seal-A-Ridge with formula *FLX* with StainGuard treatment.

Complete application instructions are published by Elk and printed on the back of every shingle bundle. All warranties are contingent upon the correct installation as shown on the instructions. These instructions are the minimum required to meet Elk application requirements. In some areas, building codes may require additional application techniques or methods beyond our instructions. In these cases, the local code must be followed. Under no circumstances will Elk accept application requirements less than those contained in its application instructions.

For specifications in CSI format, call 800 354 SPEC (7732) or e-mail specinfo@elkcorp.com.

SOUTHEAST & ATLANTIC OFFICE:
800.945.5551

CORPORATE HEADQUARTERS:
800.354.7732

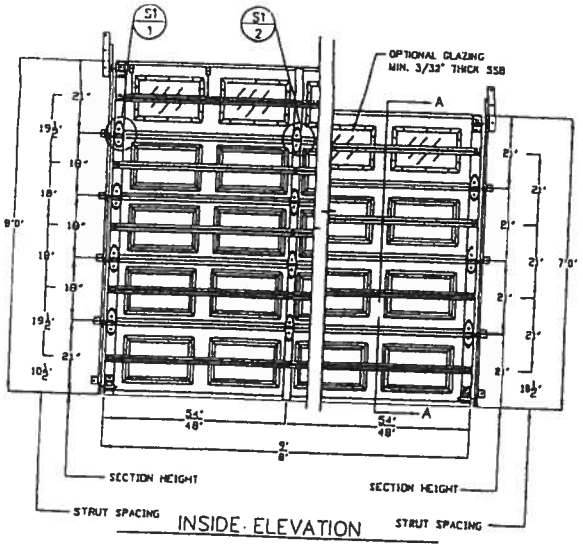
PLANT LOCATION:
800.945.5545

ELK
www.elkcorp.com

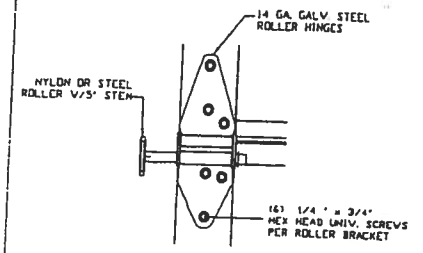
SSOOT 01/02

Michael Jenkins

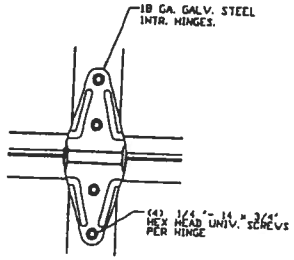
From : Ed Gruta - Lake City Industries



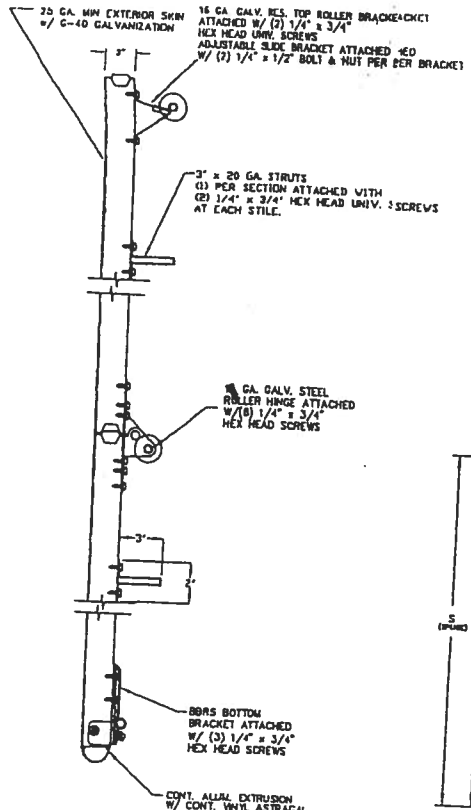
INSIDE ELEVATION



TYP ROLLER BRACKET S1/1
N.T.S.



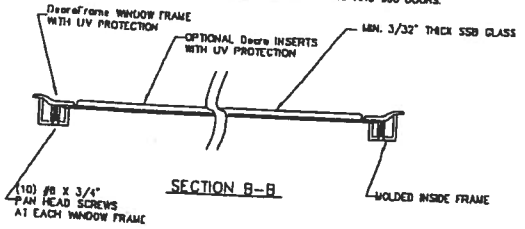
TYP. HINGE CONNECTION S1/2
N.T.S.

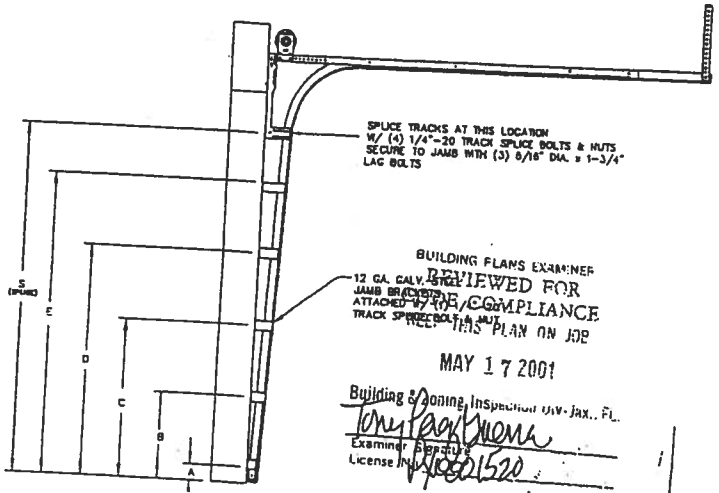


SECTION A-A (SIDE VIEW)

GLAZING OPTION CROSS SECTION

TEST No. SBC-580-011 ON OCTOBER 12, 1995 INCLUDED GLASS WINDOWS IN THE DOOR BEING USED. THE TEST PRESSURES WERE +48.4 PSF AND -64.7 PSF. BY COMPARISON, FOUR (4) WINDOWS MAY BE INSTALLED IN (1) ONE SECTION OF THE 8' X 7' AND 9' X 8' MODEL 600 AND 850 DOORS.





TRACK CONFIGURATION FOR 6'6" UP TO 8' TALL DOORS

BUILDING PLANS EXAMINER
REVIEWED FOR
CODE COMPLIANCE
THIS PLAN OR JOB
MAY 17 2001
Building & Zoning, Inspection Div., Jax., FL.
Examiner Signature
License #

(1) 5/16" DIA. x 1-3/4"
LAG BOLT ATTACHED TO JAMB
AT EA. JAMB BRACKET
STOP MOULDING
W/ FLEXIBLE SEAL
(SUPPLIED BY INSTALLER)
20 GA. GALV. STEEL
END STILE
7/16" DIA.
BOLT RETAINER
(1) PER ROLLER
2" GALV. STEEL TRACK
TRACK THICKNESS .063"
2 X 6 SOUTHERN YELLOW PINE
(NO. 2 OR BETTER)

TRACK MOUNTING DETAIL

WOOD JAMB ATTACHMENT TO STRUCTURE

RATED FOR 110 MPH FASTEST-MILE BASIC WIND SPEEDS

VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE
5/16" X 3" LAG SCREWS STARTING 6" FROM ENDS THEN 24" O.C.

VERTICAL JAMB ATTACHMENT TO 2,000 PSI CONCRETE
HILTI KWIK BOLT 3/8" X 4" STARTING 6" FROM ENDS THEN 24" O.C.
HILTI SLEEVE ANCHOR 3/8" X 3-3/4" STARTING 6" FROM ENDS THEN 24" O.C.
ITW/RAMSET RED HEAD 3/8" X 3" STARTING 6" FROM ENDS THEN 24" O.C.

VERTICAL JAMB ATTACHMENT TO C-90 BLOCK
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS THEN 24" O.C.
ITW/RAMSET TAPCON 1/4" X 2-3/4" STARTING 6" FROM ENDS, USE PAIRS OF FASTENERS (3" APART) AT 24" O.C.

*LAGS AND BOLTS CAN BE COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.
**PREPARATION OF WOOD JAMBS BY OTHERS

JAMB BRACKET LOCATIONS

	A	B	C	D	E	S
6'-6"	4"	21-1/2"	39"	57"		70"
7'-0"	4"	21-1/2"	42"	63"		76"
7'-6"	4"	18"	36"	54"	72"	82"
8'-0"	4"	21-1/2"	39"	57"	75"	88"

SPECIFICATIONS AND NOTES

1. DOORS AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA. LIGHT COMMERCIAL QUALITY, G-40 GALVANIZATION.
2. DOOR SECTIONS SHALL BE 25 GA. (.018") MIN. ROLL FORMED
3. DOORS UPTO 7'6" HIGH CONSIST OF (4) SECTIONS AS SHOWN.
4. DOORS UPTO 8'0" HIGH CONSIST OF (5) SECTIONS AS SHOWN.
5. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTRED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.
6. THE METHOD OF TESTING WAS BY SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED BY ASTM E330-81, AND THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING THE FOLLOWING PARAMETERS:
   A. BASIC WIND SPEED OF 110 MPH
   B. DOOR CAN BE INSTALLED WITH 8 FEET OF DOORS WIDTH INSIDE THE EDGE STRIP.
   C. 15° MEAN ROOF HEIGHT AT ANY SLOPE
   D. USE FACTOR OF 1.0
   E. EXPOSURE RATING OF C

MAX SIZE 8' x 8'
DESIGN LOADS +36.7 PSF -31.3 PSF
TEST LOADS +43.0 PSF -48.6 PSF

Amarr
MODEL #600 STRATFORD
MODEL #850 HERITAGE III
SBC-580-007-J
SHEET 1 OF 1

4/19/01