

DATE 12/08/2006

Columbia County Building Permit

PERMIT
000025295

This Permit Expires One Year From the Date of Issue

APPLICANT WILLIAM HARPER PHONE 752-2571
ADDRESS 19 SW HOBBY PLACE LAKE CITY FL 32024
OWNER KIMBERLY & ZACHARY MEARS PHONE 288-8020
ADDRESS 356 SW PAUL ALLISON COURT LAKE CITY FL 32024
CONTRACTOR WILLIAM HARPE PHONE 752-2571
LOCATION OF PROPERTY 90W, TL ON 247S, TR ON MILL RD, TR ON PAUL ALLISON,
HOME ON LEFT

TYPE DEVELOPMENT MODULAR ESTIMATED COST OF CONSTRUCTION 0.00
HEATED FLOOR AREA TOTAL AREA HEIGHT 1
FOUNDATION WALLS ROOF PITCH FLOOR
LAND USE & ZONING A-3 MAX. HEIGHT 14
Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00
NO. EX.D.U. 1 FLOOD ZONE X PS DEVELOPMENT PERMIT NO.

PARCEL ID 36-4S-15-00414-104 SUBDIVISION
LOT BLOCK PHASE UNIT TOTAL ACRES

RR28281142
Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor
EXISTING 06-1059-E BK JH Y
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: ONE FOOT ABOVE THE ROAD

Check # or Cash 1179

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power date/app. by Foundation date/app. by Monolithic date/app. by
Under slab rough-in plumbing date/app. by Slab date/app. by Sheathing/Nailing date/app. by
Framing date/app. by Rough-in plumbing above slab and below wood floor date/app. by
Electrical rough-in date/app. by Heat & Air Duct date/app. by Peri. beam (Lintel) date/app. by
Permanent power date/app. by C.O. Final date/app. by Culvert date/app. by
M/H tie downs, blocking, electricity and plumbing date/app. by Pool date/app. by
Reconnection date/app. by Pump pole date/app. by Utility Pole date/app. by
M/H Pole date/app. by Travel Trailer date/app. by Re-roof date/app. by

BUILDING PERMIT FEE \$ 0.00 CERTIFICATION FEE \$ 0.00 SURCHARGE FEE \$ 0.00
MISC. FEES \$ 200.00 ZONING CERT. FEE \$ 50.00 FIRE FEE \$ 0.00 WASTE FEE \$
FLOOD DEVELOPMENT FEE \$ FLOOD ZONE FEE \$ 25.00 CULVERT FEE \$ TOTAL FEE 275.00

INSPECTORS OFFICE CLERKS OFFICE

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

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

This Permit Must Be Prominently Posted on Premises During Construction

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

The Issuance of this Permit Does Not Waive Compliance by Permittee with Deed Restrictions.

Columbia County Building Permit Application

CK#1179

For Office Use Only Application # 0612-0001 Date Received 12/1/06 By LH Permit # 35295
 Application Approved by - Zoning Official BLK Date 08.12.06 Plans Examiner DK JTH Date 12-5-06
 Flood Zone XPS Development Permit N/A Zoning A-3 Land Use Plan Map Category A-3
 Comments Replacing existing m/h to be removed within 45 days of CO being issued.
☐ NOC ☒ EH ☒ Deed or PA ☒ Site Plan ☒ State Road Info ☐ Parent Parcel # ☐ Development Permit

Name Authorized Person Signing Permit WILLIAM L. HARPER Phone 386-752-2571
 Address 119 SW HOBBSY PL. LAKE CITY, FL 32024
 Owners Name KIMBERLY AND ZACHARY MEARS Phone 386-288-8020
 911 Address 356 SW PAUL ALLISON CT. LAKE CITY, FL 32024
 Contractors Name WILLIAM L. HARPER Phone 386-752-2571
 Address 119 SW HOBBSY PL. LAKE CITY, FL 32024
 Fee Simple Owner Name & Address _____
 Bonding Co. Name & Address _____
 Architect/Engineer Name & Address _____
 Mortgage Lenders Name & Address _____

Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Energy
 Property ID Number 36-45-15-00414-104 HX Estimated Cost of Construction \$136,000.00
 Subdivision Name _____ Lot _____ Block _____ Unit _____ Phase _____
 Driving Directions TAKE I-90 WEST TO HWY 247, TURN LEFT, TAKE HWY. 247 TO MILL RD., TURN RIGHT, TAKE MILL RD. TO PAUL ALLISON CT., TURN RIGHT, HOME ON LEFT
 Type of Construction MODULAR Number of Existing Dwellings on Property 1
 Total Acreage 5 Lot Size _____ Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive
 Actual Distance of Structure from Property Lines - Front 390' Side 115' Side 120' Rear 240'
 Total Building Height 14 ft. Number of Stories 1 Heated Floor Area 1973 Roof Pitch 7/12

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

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

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Owner Builder or Authorized Person by Notarized Letter

STATE OF FLORIDA
 COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me
 this 30 day of November 2006.

Personally known ☒ or Produced Identification _____

William L. Harper
 Contractor Signature
 Contractors License Number RR282811402
 Competency Card Number 5616
 NOTARIZED SEAL
Jim Clark
 Notary Public, State of Florida
 (Revised Sept. 2006)



STATE OF FLORIDA
DEPARTMENT OF HEALTH

APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

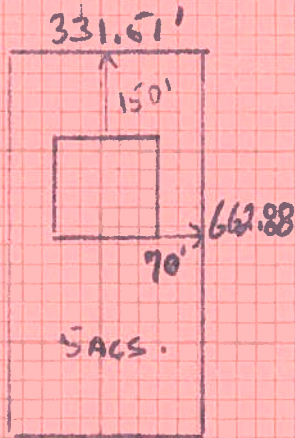
Permit Application Number

86-1059E

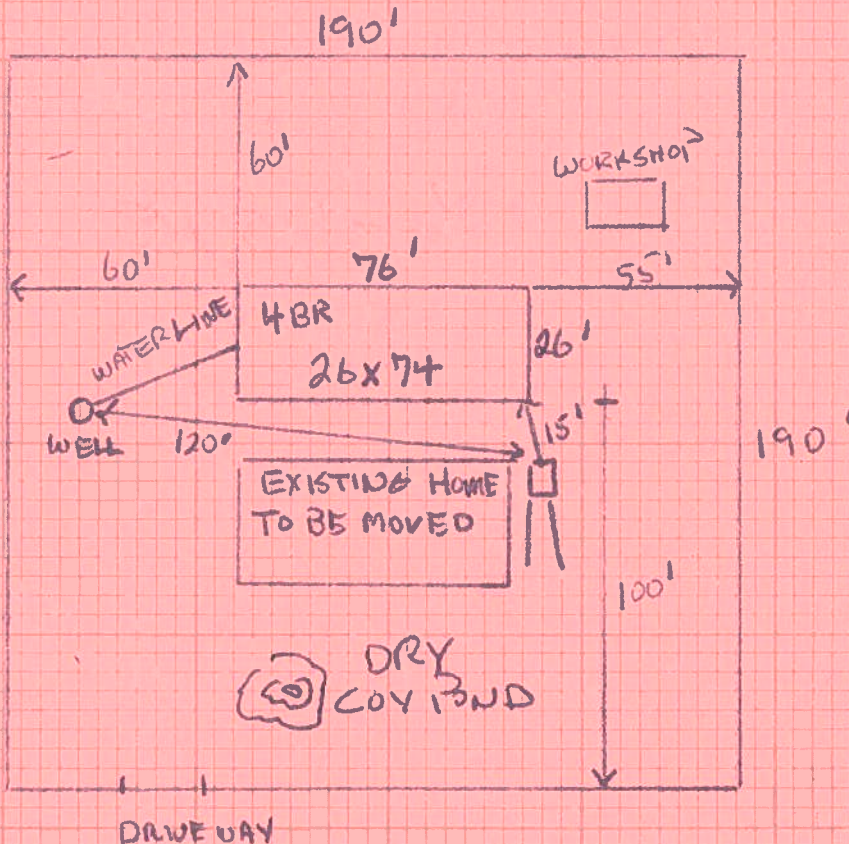
Mears

PART II - SITE PLAN

Scale: Each block represents 5 feet and 1 inch = 50 feet.



.8
OF
SACS



Notes:

Original Attached

Site Plan submitted by:

W. D. Mears

Signature

AGENT

Title

Plan Approved

[initials]

Not Approved

Date

By

[Signature] *Sally Gaddy*

County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

Gable Roof Diaphragm and Shearwall Force Calculation (ASCE 7-02)

Client: Cavalier
Job Number: Shearwall Calcs
Description:

Building Geometry:

Ridge Length, B = 76.0 ft
Total Width, L = 26.7 ft
Blocking Height, h_b = 18.0 in.
Sidewall/Eave Height, h_e = 120.0 in.
Roof Slope, a = 6.24 /12 pitch
Roof slope, a = 27.5 deg.
Sidewall Overhang, L_{OH} = 12.0 in.
Endwall Overhang, B_{OH} = 12.0 in.

Loading Conditions:

Basic Wind Speed (V_{3s}) = 140 & 130 mph
Importance Factor (I_w) = 1.00
Exposure Category: C
Topographic Factor (K_{zt}) = 1.0
Height & Exposure (K_h) = 0.89
Directionality (K_d) = 0.85

Height Above Grade:

Stories Above Grade = 1.0
Sidewall Eave (z) = 11.5 ft
Roof Peak (z) = 19.0 ft
Mean Roof Height (h) = 15.2 ft
MWFRS End Zone, $2a$ = 6.0 ft

NET Horizontal Wind Loads (MWFRS)			Wind Speed (V_{3s})	
			130	140
Transverse	Wall	Wind Pressure (q_p)	32.7	37.9
		End Zone	40.4	46.9
	Roof	Interior	30.6	35.5
		End Zone	16.4	19.0
Longitudinal	Wall	Interior	13.9	16.1
		End Zone	34.0	39.4
	Roof	Interior	22.5	26.1
		End Zone	16.4	19.0
		Interior	13.9	16.1

Vertical Roof Projection = 7.5 ft
Wall Height = 9.0 ft
Misc. Framing Height = 1 ft/level

Shearwall Loads (plf)

Shearwall Design Loads

		Wind Speed (V_{3s})	
		Zone	
Roof Diaphragm	End	130	140
	Interior	304	353
		241	280

Sliding Pressures (plf)

Sliding Design Loads

		Wind Speed (V_{3s})			
		Zone		130	140
Floor Diaphragm	End	627	811		
	Interior	410	475		

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Total Force to Shearwalls (each side)

		Shearwall Force Per End of Unit (lb/ft)				Sliding Force Per End of Unit (lb/ft)			
		Endwall		Sidewall		Endwall		Sidewall	
		Wind Speed (V_{3s})		Wind Speed (V_{3s})		Wind Speed (V_{3s})		Wind Speed (V_{3s})	
		130	140	130	140	130	140	130	140
Bracing 1 Floor and Roof	Unit Length								
	30	3998	4837			6498	7537		
	35	4801	5337			7523	8725		
	40	5205	6036			8548	9913		
	45	5808	6736			9572	11101		
	50	6412	7436			10597	12290		
	55	7015	8136			11621	13478		
	60	7619	8836			12646	14666		
	65	8222	9536			13671	15855		
	70	8826	10236			14695	17043		
	76	9550	11076	2803	3251	15925	18469	4645	5387

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:

APPROVED BY

NIA INC.

Const. Type: VB
Occupancy: R3
Allowable No. of Floors: One (1)
Wind Velocity: 130 MPH
Fire Rating of Ext. Walls: 0 hr
Plan No.: MFT-3359-3642-3988-E6307M
Allow. Floor Load: 40 PSF
Approval Date: 11/16/2006
Manufacturer: Cavalier Home Builders

4.1

Roof Diaphragm Design

Number represents the length of blocking needed from EACH end.

N/A- Blocking not needed.

A minimum of 7/16" roof sheathing must be used.

1-Story Unit Length (ft)	Blocking needed (ft)	
	Wind Speed MPH	
	130	140
30	N/A	N/A
35	N/A	N/A
40	N/A	N/A
45	N/A	N/A
50	N/A	N/A
55	N/A	1
60	N/A	4
65	2	6
70	4	9
76	7	11

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Florida Manufactured Building
Act and adopted Codes and
adhere to the following criteria:

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NIA INC.

Const. Type:	VB
Occupancy:	R3
Allowable No. of Floors:	One (1)
Wind Velocity:	130 MPH
Fire Rating of Ext. Walls:	0 hr
Plan No.:	MFT-3358-3642-3986-E5307M
Allow. Floor Load:	40 PSF
Approval Date:	11/15/2006
Manufacturer:	Caveller Home Builders

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11-2-06

Use a ply/OSB strip fastened with 0.131"x2.5" nails OR 10d nails toed at the proper spacing.
Use a 5/8" anchor bolt to connect sill to foundation at the proper spacing.

Nails Needed to Resist Sliding

Anchor Bolt Spacing (inches)

1-Story Unit Length (ft)	Endwall Nail Spacing (" O.C.)		Sidewall Nail Spacing (" O.C.)	
	Wind Speed MPH		Wind Speed MPH	
	130	140	130	140
30	4	4	6	6
35	4	3	6	6
40	3	3	6	6
45	3	2	6	6
50	3	2	6	6
55	2	2	6	6
60	2	2	6	6
65	2	2	6	6
70	2	6*	6	6
76	2	6*	6	6

1-Story Unit Length (ft)	Endwall Wind Speed MPH		Sidewall Wind Speed MPH	
	130		140	
	130	140	130	140
30	72	64	72	72
35	64	55	72	72
40	56	49	72	72
45	50	43	72	72
50	45	39	72	72
55	42	36	72	72
60	38	33	72	72
65	35	31	72	72
70	33	28	72	72
76	30	26	72	72

Note: For 6" use 0.131"x2.5" nails @ 6" O.C. and LTP4 clips @ 12" O.C.

These prints comply with the
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adhere to the following criteria:

APPROVED BY

NIA INC.

Const. Type: VB
Occupancy: R3
Allowable No. of Floors: One (1)
Wind Velocity: 130 MPH
Fire Rating of Ext. Walls: 0 hr
Plan No.: MFT-3359-3642-3986-E5307M
Allow. Floor Load: 40 PSF
Approval Date: 11/15/2006
Manufacturer: Cavaller Home Builders

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11-7-06

4.3

Endwall Shearwalls

Full Height Sheathing Required For Specified Edge Spacing

3/8" Sheathing with 8d nails at 12" O.C. field spacing

Width= 26.7 ft

Wall Height= 9 ft

Roof Pitch= 6.24 /12

Endwalls - 1 Side Sheathed

1-Story Length	6" O.C. edge		4" O.C. edge		3" O.C. edge		2" O.C. edge	
	130 MPH	140 MPH	130 MPH	140 MPH	130 MPH	140 MPH	130 MPH	140 MPH
30	14	16	10	11	8	9	6	7
35	16	19	11	13	9	10	7	8
40	18	21	13	15	10	11	8	9
45	20	24	14	16	11	13	9	10
50	23	26	16	18	12	14	9	11
55	25	N/A	17	20	13	15	10	12
60	N/A	N/A	18	21	14	17	11	13
65	N/A	N/A	20	23	16	18	12	14
70	N/A	N/A	21	25	17	19	13	15
76	N/A	N/A	23	N/A	18	21	14	16

Endwalls - 2 Sides Sheathed

1-Story Length	6" O.C. edge		4" O.C. edge		3" O.C. edge		2" O.C. edge	
	130 MPH	140 MPH	130 MPH	140 MPH	130 MPH	140 MPH	130 MPH	140 MPH
30	7	8	5	6	4	4	3	3
35	8	9	6	6	4	5	3	4
40	9	11	6	7	5	6	4	4
45	10	12	7	8	5	6	4	5
50	11	13	8	9	6	7	5	5
55	12	14	9	10	7	8	5	6
60	13	16	9	11	7	8	6	6
65	15	17	10	12	8	9	6	7
70	16	18	11	12	8	10	6	7
76	17	20	12	13	9	10	7	8

Notes:

- (1) 2.6 ft needed to be considered a segment (3.5:1 ratio)
- (2) Studs must have a maximum spacing of 16" O.C.
- (3) At panel Edges Studs must be doubled and nails must be staggered when nails are spaced @ 2" O.C.
- (3) When both sides are sheathed and nail spacing is less than 6" the panel joints must be offset to fall on different framing members or studs must be doubled and nails staggered.
- (4) Each full height sheathed section along the endwall must be tied down at both ends.

These prints comply with the
Florida Manufactured Building
Act and adopted Codes and
adhere to the following criteria:

APPROVED BY

NIA INC.

Const. Type: VB
Occupancy: R3
Allowable No. of Floors: One (1)
Wind Velocity: 130 MPH
Fire Rating of Ext. Walls: 0 hr
Plan No.: MFT-3359-3642-3986-E6307M
Allow. Floor Load: 40 PSF
Approval Date: 11/15/2006
Manufacturer: Cavalier Home Builders

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Sidewalls

Full Height Sheathing Required For Specified Edge Spacing

3/8" Sheathing with 8d nails at 12" O.C. field spacing

Width= 26.7 ft
Wall Height= 9 ft
Roof Pitch= 6.24 /12

1-Story % FHS	6" O.C. edge		4" O.C. edge		3" O.C. edge		2" O.C. edge	
	130 MPH	140 MPH	130 MPH	140 MPH	130 MPH	140 MPH	130 MPH	140 MPH
10	23	27	16	18	12	14	10	11
20	22	25	15	18	12	14	9	11
30	20	23	14	16	11	13	8	10
40	19	22	13	15	10	12	8	9
50	17	20	12	14	9	11	7	8
60	16	18	11	13	8	10	7	8
70	14	17	10	11	8	9	6	7
80	13	15	9	10	7	8	5	6
90	11	13	8	9	6	7	5	5
100	10	11	7	8	5	6	4	5

Notes:

- (1) 2.8 ft needed to be considered a segment (3.5:1 ratio)
- (2) Studs must have a maximum spacing of 16" O.C.
- (3) Percent Full Height Sheathing (% FHS) determined by taking the sum of the length of each segment of the wall then dividing by the total sidewall length.
- (4) Studs must be doubles and nails must be staggered when nails are spaced @ 2" O.C.

These prints comply with the
Florida Manufactured Building
Act and adopted Codes and
adhere to the following criteria:

APPROVED BY

NIA INC.

Const. Type: VB
Occupancy: R3
Allowable No. of Floors: One (1)
Wind Velocity: 130 MPH
Fire Rating of Ext. Walls: 0 hr
Plan No.: MFT-3359-3642-3986-E5307M
Allow. Floor Load: 40 PSF
Approval Date: 11/16/2006
Manufacturer: Cavalier Home Builders

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Overturning strapping for Endwalls

Width= 26.7 ft
Wall Height= 9 ft
Roof Pitch= 6.24 /12

130 MPH

1-Story	Percent Full Height Sheathing of Endwall									
Length	10	20	30	40	50	60	70	80	90	100
30	13493	6747	4498	3373	2899	2249	1928	1687	1499	1349
35	15530	7765	5177	3882	3106	2588	2219	1941	1728	1553
40	17587	8783	5856	4392	3513	2928	2510	2196	1952	1757
45	19603	9802	6534	4901	3921	3267	2800	2450	2178	1960
50	21640	10820	7213	5410	4328	3607	3091	2705	2404	2164
55	23677	11838	7892	5919	4735	3946	3382	2960	2631	2368
60	25714	12857	8571	6428	5143	4286	3673	3214	2857	2571
65	27750	13875	9250	6938	5550	4625	3984	3469	3083	2775
70	29787	14894	9929	7447	5957	4965	4255	3723	3310	2979
76	32231	16116	10744	8058	6446	5372	4604	4029	3581	3223

140 MPH

1-Story	Percent Full Height Sheathing of Endwall									
Length	10	20	30	40	50	60	70	80	90	100
30	15649	7824	5216	3912	3130	2608	2236	1956	1739	1565
35	18011	9006	6004	4503	3602	3002	2573	2251	2001	1801
40	20373	10187	6791	5093	4075	3396	2910	2547	2264	2037
45	22735	11368	7578	5684	4547	3789	3248	2842	2526	2274
50	25097	12549	8366	6274	5019	4183	3585	3137	2789	2510
55	27460	13730	9153	6865	5492	4577	3923	3432	3051	2746
60	29822	14911	9941	7455	5864	4870	4260	3728	3314	2982
65	32184	16092	10728	8046	6437	5364	4598	4023	3576	3218
70	34546	17273	11515	8636	6909	5758	4935	4318	3838	3455
76	37380	18690	12460	9345	7476	6230	5340	4673	4153	3738

Simpson Strap/Anchor Capacities (lb):

1st story to foundation:		Interconnection between stories:	
STHD14RJ	5025	CMST12	8235
STHD10RJ	3730	CMSTC16	4585
STHD8RJ	2210	CS14	2490
		CS20	1030

Notes:

- (1) Endwalls must be secured to resist overturning on both ends of each FHS (full height sheathed) section and within 3 feet of each corner.
- (2) Percent Full Height Sheathing (% FHS) determined by taking the sum of the length of each segment of the wall then dividing by the total sidewall length.

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:

APPROVED BY

NIA INC.

Const. Type: VB
Occupancy: R3
Allowable No. of Floors: One (1)
Wind Velocity: 130 MPH
Fire Rating of Ext. Walls: 0 hr
Plan No.: MFT-3359-3642-3986-E6307M
Allow. Floor Load: 40 PSF
Approval Date: 11/15/2006
Manufacturer: Cavalier Home Builders

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CAVALIER HOME BUILDERS, ELECTRICAL FEEDER CALCULATION

Date: 10/18/2006
 Prepared By: Scott Lee
 Model # N/A
 Job # E5307M
 Size 74 x 26.67

lighting load 1973.58 sqft. x 3 w/ft = 5920.74 watts

Small App. & Laundry 1500 x 1500 watts = 4500 watts

Name Plate Ratings or Fixed Appliances and Motors

Furnace Blower	0	watts
Exhaust	960	
Disposal	0	
D/W	1200	
W/H 1- @ 5500watts	5500	
Dryer 1- @ 5500watts	5000	
Range 1- @ 5200watts	5200	
Oven	0	
Cooktop	0	
Ice	0	
Security/Exit	0	
Special Devices	0	

Subtotal 28280.74

100% of 1st 10Kw
 40% of remainder

10000
 7312.296

Air Conditioning @ 100%

120000

Total 37312.3 watts
 240 volts = 155.4679 Amps

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NIA INC.

Const. Type: VB
 Occupancy: R3
 Allowable No. of Floors: One (1)
 Wind Velocity: 130 MPH
 Fire Rating of Ext. Walls: 0 hr
 Plan No.: MFT-3359-3642-3986-E5307M
 Allow. Floor Load: 40 PSF
 Approval Date: 11/15/2006
 Manufacturer: Cavalier Home Builders

Scott Lee

10-17-2006

Heatloss is based on a Design Temp. Difference of 55
Heatgain is based on a Design Temp. Difference of 35 ,with a Dark Roof
CFM for Heatloss is based on a Temp. Rise within the heat exchanger of 35

CEILING HEIGHT IS 9. FEET,		VOLUME IS		1260 CUBIC FEET
 1 EXPOSED OPENINGS,TOTALING >>>>>>>>>>>>>>>>				15. SQUARE FEET
 2 EXPOSED WALLS, not including openings,TOTALING >>>> 				214.5 SQUARE FEET
ROOM SIZE IS 10.5 LONG by 13.3 WIDE, TOTALING >> 157.5 SQUARE FEET				
WINDOW TYPE IS: U-Value = .609, Double Pane, Clear Glass				
WALL TYPE IS: U-Value = .08, frame, Insulated				
CEILING TYPE IS: U-Value = .033, Unconditioned Attic Space Above				
FLOOR TYPE IS: U-Value = .08, Floor, over Enclosed, Unconditioned space				
		HEATLOSS	HEATGAIN	
Additional BTUH for people, Appliances etc.			600	BTUH
The Total BTUH for the outside walls are		944	579	BTUH
The Total BTUH for the Exposed Openings are		503	1170	BTUH
The total BTUH for the ceilings		284	284	BTUH
The total BTUH for the floors		308	0	BTUH
The BTUH infiltration for the openings is		1250	398	BTUH
DUCT LOSS OR DUCT GAIN for this room is		164	0	BTUH
SENSIBLE HEAT GAIN			3031	BTUH
THE TOTAL BTUH FOR THIS ROOM IS		3453	BTUH	
The total CFM of air required for this room is		90	162	CFM

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CEILING HEIGHT IS 9. FEET, VOLUME IS 1119 CUBIC FEET
0 EXPOSED OPENINGS,TOTALING >>>>>>>>>>>>>>>> . SQUARE FEET
1 EXPOSED WALLS, not including openings,TOTALING >>>> 84. SQUARE FEET
ROOM SIZE IS 9.3 LONG by 13.3 WIDE, TOTALING >> 124.4 SQUARE FEET
WINDOW TYPE IS: U-Value = .609, Double Pane, Clear Glass
WALL TYPE IS: U-Value = .08, frame, Insulated
CEILING TYPE IS: U-Value = .033, Unconditioned Attic Space Above
FLOOR TYPE IS: U-Value = .08, Floor, over Enclosed, Unconditioned space
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	HEATLOSS	HEATGAIN	
Additional BTUH for people, Appliances etc.		0	BTUH
The Total BTUH for the outside walls are	369	227	BTUH
The Total BTUH for the Exposed Openings are	0	0	BTUH
The total BTUH for the ceilings	224	224	BTUH
The total BTUH for the floors	274	0	BTUH
The BTUH infiltration for the openings is	0	0	BTUH



Const. Type:	VB	Page # 1
Occupancy:	R3	
Allowable No. of Floors:	One (1)	
Wind Velocity:	130 MPH	
Fire Rating of Ext. Walls:	0 hr	
Plan No.:	MFT-3359-3642-3986-E5307M	
Allow. Floor Load:	40 PSF	
Approval Date:	11/15/2006	
Manufacturer:	Cavaller Home Builders	

9/11/16

John

WINDOW TYPE IS: U-Value = .609, Double Pane, Clear Glass
WALL TYPE IS: U-Value = .08, frame, Insulated
CEILING TYPE IS: U-Value = .033, Unconditioned Attic Space Above
FLOOR TYPE IS: U-Value = .08, Floor, over Enclosed, Unconditioned space

	HEATLOSS	HEATGAIN	
Additional BTUH for people, Appliances etc.		300	BTUH
The Total BTUH for the outside walls are	473	290	BTUH
The Total BTUH for the Exposed Openings are	1193	2454	BTUH
The total BTUH for the ceilings	420	420	BTUH
The total BTUH for the floors	513	0	BTUH
The BTUH infiltration for the openings is	4169	1326	BTUH
DUCT LOSS OR DUCT GAIN for this room is	338	0	BTUH
SENSIBLE HEAT GAIN		4790	BTUH
THE TOTAL BTUH FOR THIS ROOM IS	7106	BTUH	
The total CFM of air required for this room is	185	256	CFM

Bedroom (Master)

CEILING HEIGHT IS 9. FEET, VOLUME IS 1860 CUBIC FEET

[illegible]

2 EXPOSED WALLS, not including openings, TOTALING >>>> 229.5 SQUARE FEET

ROOM SIZE IS 15.5 LONG by 13.3 WIDE, TOTALING >> 206.6 SQUARE FEET

WINDOW TYPE IS: U-Value = .609, Double Pane, Clear Glass

WALL TYPE IS: U-Value = .08, frame, Insulated

CEILING TYPE IS: U-Value = .033, Unconditioned Attic Space Above

FLOOR TYPE IS: U-Value = .08, Floor, over Enclosed, Unconditioned space

	HEATLOSS	HEATGAIN	
Additional BTUH for people, Appliances etc.		600	BTUH
The Total BTUH for the outside walls are	1010	620	BTUH
The Total BTUH for the Exposed Openings are	1005	2340	BTUH
The total BTUH for the ceilings	372	372	BTUH
The total BTUH for the floors	455	0	BTUH
The BTUH infiltration for the openings is	2501	796	BTUH
DUCT LOSS OR DUCT GAIN for this room is	267	0	BTUH
SENSIBLE HEAT GAIN		4728	BTUH
THE TOTAL BTUH FOR THIS ROOM IS	5610	BTUH	
The total CFM of air required for this room is	146	253	CFM

Bath (Master)

CEILING HEIGHT IS 9. FEET, VOLUME IS 1839 CUBIC FEET

[illegible]

2 EXPOSED WALLS, not including openings, TOTALING >>>> 226.9 SQUARE FEET

ROOM SIZE IS 15.3 LONG by 13.3 WIDE, TOTALING >> 204.3 SQUARE FEET

WINDOW TYPE IS: U-Value = .609, Double Pane, Clear Glass

WALL TYPE IS: U-Value = .08, frame, Insulated

CEILING TYPE IS: U-Value = .033, Unconditioned Attic Space Above

FLOOR TYPE IS: U-Value = .08, Floor, over Enclosed, Unconditioned space

	HEATLOSS	HEATGAIN	
Additional BTUH for people, Appliances etc.		0	BTUH
The Total BTUH for the outside walls are	999	613	BTUH
The Total BTUH for the Exposed Openings are	1039	2051	BTUH
The total BTUH for the ceilings	368	368	BTUH
The total BTUH for the floors	450	0	BTUH
The BTUH infiltration for the openings is	2584	822	BTUH

These prints comply with the
-Florida Manufactured Building
Act and adopted Codes and
adhere to the following criteria:

Const. Type: VB Page # 3
 Occupancy: R3
 Allowable No. of Floors: One (1)
 Wind Velocity: 130 MPH
 Fire Rating of Ext. Walls: 0 hr
 Plan No.: MFT-3359-3642-3986-E5307M
 Allow. Floor Load: 40 PSF
 Approval Date: 11/15/2006
 Manufacturer: Cavaller Home Builders

APPROVED BY



11-2006

Additional BTUH for people, Appliances etc.		1200	BTUH
The Total BTUH for the outside walls are	229	140	BTUH
The Total BTUH for the Exposed Openings are	188	114	BTUH
The total BTUH for the ceilings	192	192	BTUH
The total BTUH for the floors	235	0	BTUH
The BTUH infiltration for the openings is	1668	531	BTUH
DUCT LOSS OR DUCT GAIN for this room is	126	0	BTUH
SENSIBLE HEAT GAIN		2177	BTUH
THE TOTAL BTUH FOR THIS ROOM IS	2638	BTUH	
The total CFM of air required for this room is	69	116	CFM

Additional BTUH for people, Appliances etc.		600	BTUH
The Total BTUH for the outside walls are	897	551	BTUH
The Total BTUH for the Exposed Openings are	503	1170	BTUH
The total BTUH for the ceilings	264	264	BTUH
The total BTUH for the floors	323	0	BTUH
The BTUH infiltration for the openings is	1250	398	BTUH
DUCT LOSS OR DUCT GAIN for this room is	162	0	BTUH
SENSIBLE HEAT GAIN		2983	BTUH
THE TOTAL BTUH FOR THIS ROOM IS	3399	BTUH	
The total CFM of air required for this room is	88	160	CFM

	HEATLOSS	HEATGAIN	
Additional BTUH for people, Appliances etc.		5400	BTUH
The Total BTUH for the walls above grade are	6908	4240	BTUH
The Total BTUH for the walls below grade are	0		
The Total BTUH for the Exposed openings are	7698	16904	BTUH
The total BTUH for the ceilings	3588	3588	BTUH
The total BTUH for the floors	4347	0	BTUH
The BTUH infiltration for the openings is	21549	6858	BTUH



9/11/20

DUCT LOSS OR DUCT GAIN	2203	0	BTUH
TOTAL SENSIBLE HEAT GAIN		36990	BTUH
LATENT GAIN		8356	BTUH
TOTAL BTUH, THIS BUILDING	46293	45346	BTUH
The total CFM of air required	1202	1978	CFM

Page # 6

These prints comply with the
Florida Manufactured Building
Act and adopted Codes and
adhere to the following criteria:

APPROVED BY

NIA INC.

Const. Type:	<u>VB</u>
Occupancy:	<u>R3</u>
Allowable No. of Floors:	<u>One (1)</u>
Wind Velocity:	<u>130 MPH</u>
Fire Rating of Ext. Walls:	<u>0 hr</u>
Plan No.:	<u>MFT-3359-3642-3986-E6307M</u>
Allow. Floor Load:	<u>40 PSF</u>
Approval Date:	<u>11/15/2006</u>
Manufacturer:	<u>Cavalier Home Builders</u>

Handwritten signature and date: 11/17/06

25295

06-583 American Title

Attn: Bill Harper

THIS INSTRUMENT WAS PREPARED BY:
FIRST FEDERAL SAVINGS BANK OF FLORIDA
4705 WEST U.S. HIGHWAY 90
P.O. BOX 2029
LAKE CITY, FLORIDA 32066

Inst: 2006024882 Date: 10/17/2008 Time: 13:58
DC, P. DeWitt Cason, Columbia County B: 1099 P: 593

PERMIT NO. _____

TAX FOLIO NO. R00414-104

NOTICE OF COMMENCEMENT

STATE OF FLORIDA
COUNTY OF Columbia

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

1. Description of property: The South 1/2 of the Southwest 1/4 of the Northwest 1/4 of the Southeast 1/4 of Section 36, Township 4 South, Range 15 East, Columbia County, Florida.
2. General description of improvement: Construction of Dwelling
3. Owner information:
 - a. Name and address: Kimberly K. Mears and Zachary Mears
356 SW Paul Allison Court, Lake City, FL 32024
 - b. Interest in property: Fee Simple
 - c. Name and address of fee simple title holder (if other than Owner): NONE
4. Contractor (name and address): Better Built Homes
3993 West US Hwy 90, Lake City, FL 32055
5. Surety:
 - a. Name and address: N/A
 - b. Amount of bond: _____
6. Lender: **FIRST FEDERAL SAVINGS BANK OF FLORIDA**
4705 WEST U.S. HIGHWAY 90
P. O. BOX 2029
LAKE CITY, FLORIDA 32066
7. Persons within the State of Florida designated by Owner upon whom notices or other document may be served as provided by Section 713.13 (1) (a) 7., Florida Statutes: NONE
8. In addition to himself, Owner designates PAULA HACKER of FIRST FEDERAL SAVINGS BANK OF FLORIDA, 4705 West U.S. Highway 90 / P. O. Box 2029, Lake City, Florida 32066 to receive a copy of the Lienor's Notice as provided in Section 713.13 (1) (b), Florida Statutes.
9. Expiration date of notice of commencement (the expiration date is 1 year from the date of recording unless a different date is specified).

Kimberly K. Mears
Borrower Name

[Signature]
Co-Borrower Name

The foregoing instrument was acknowledged before me this 12th day of October, 2008, by Kimberly K. Mears and Zachary Mears, who is personally known to me or who has produced driver's license for identification.

[Signature]
Notary Public
My Commission Expires: Jan 11, 2009
KIMBERLY A. ALBRITTON
Notary Public - State of Florida
Commission # DD 388660

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs Residential Whole Building Performance Method A

Project Name: E5307M-NORTH	Builder: <i>William Harper</i>
Address:	Permitting Office: <i>Columbia</i>
City, State: JACKSONVILLE, FL 32223-	Permit Number: <i>25295</i>
Owner:	Jurisdiction Number: <i>221000</i>
Climate Zone: North	

<p>1. New construction or existing New —</p> <p>2. Single family or multi-family Single family —</p> <p>3. Number of units, if multi-family 1 —</p> <p>4. Number of Bedrooms 4 —</p> <p>5. Is this a worst case? No —</p> <p>6. Conditioned floor area (ft²) 1974 ft² —</p> <p>7. Glass type¹ and area: (Label reqd. by 13-104.4.5 if not default)</p> <p>a. U-factor: Description Area</p> <p>(or Single or Double DEFAULT) 7a. (Dble, U=0.5) 105.0 ft² —</p> <p>b. SHGC:</p> <p>(or Clear or Tint DEFAULT) 7b. (Tint) 212.2 ft² —</p> <p>8. Floor types</p> <p>a. Raised Wood, Stem Wall R=11.0, 1974.0ft² —</p> <p>b. N/A —</p> <p>c. N/A —</p> <p>9. Wall types</p> <p>a. Frame, Wood, Exterior R=19.0, 561.0 ft² —</p> <p>b. Frame, Wood, Exterior R=19.0, 567.0 ft² —</p> <p>c. Frame, Wood, Exterior R=19.0, 240.0 ft² —</p> <p>d. Frame, Wood, Exterior R=19.0, 232.5 ft² —</p> <p>e. N/A —</p> <p>10. Ceiling types</p> <p>a. Under Attic R=33.0, 1974.0 ft² —</p> <p>b. N/A —</p> <p>c. N/A —</p> <p>11. Ducts</p> <p>a. N/A —</p> <p>b. N/A —</p>	<p>12. Cooling systems</p> <p>a. N/A —</p> <p>b. N/A —</p> <p>c. N/A —</p> <p>13. Heating systems</p> <p>a. N/A —</p> <p>b. N/A —</p> <p>c. N/A —</p> <p>14. Hot water systems</p> <p>a. Electric Resistance —</p> <p>b. N/A —</p> <p>c. Conservation credits (HR-Heat recovery, SHR-Solar Heat Recovery, DHP-Dedicated heat pump) —</p> <p>15. HVAC credits</p> <p>(CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating) —</p>
---	--

Glass/Floor Area: 0.11

Total as-built points: 28794

Total base points: 31399

PASS

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

PREPARED BY: *[Signature]*DATE: *10/12/06*

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: , JACKSONVILLE, FL, 32223-

PERMIT #:

BASE				AS-BUILT								
GLASS TYPES												
.18 X Conditioned X BSPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt		Area X SPM X SOF = Points					
.18	1974.0	20.04	7120.6	Double,U=0.48,Tint	E	0.0	0.0	105.0	35.85	1.00	3764.0	
				Double,U=0.48,Tint	W	0.0	0.0	99.7	32.83	1.00	3283.6	
				Double,U=0.48,Tint	N	0.0	0.0	7.5	18.96	1.00	127.2	
				As-Built Total:				212.2		7174.7		
WALL TYPES				Area X BSPM = Points		Type	R-Value	Area X SPM = Points				
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior			19.0	561.0	0.90	504.9		
Exterior	1600.5	1.70	2720.9	Frame, Wood, Exterior			19.0	567.0	0.90	510.3		
				Frame, Wood, Exterior			19.0	240.0	0.90	216.0		
				Frame, Wood, Exterior			19.0	232.6	0.90	209.3		
Base Total:		1600.5	2720.9	As-Built Total:				1600.5		1440.4		
DOOR TYPES				Area X BSPM = Points		Type	Area X SPM = Points					
Adjacent	0.0	0.00	0.0	Exterior Insulated				40.0	4.10	164.0		
Exterior	40.0	6.10	244.0									
Base Total:		40.0	244.0	As-Built Total:				40.0		164.0		
CEILING TYPES				Area X BSPM = Points		Type	R-Value	Area X SPM X SCM = Points				
Under Attic	1974.0	1.73	3415.0	Under Attic			33.0	1974.0	1.65 X 1.00	3259.6		
Base Total:		1974.0	3415.0	As-Built Total:				1974.0		3259.6		
FLOOR TYPES				Area X BSPM = Points		Type	R-Value	Area X SPM = Points				
Slab	0.0(p)	0.0	0.0	Raised Wood, Stem Wall			11.0	1974.0	-1.90	-3760.6		
Raised	1974.0	-3.99	-7876.3									
Base Total:			-7876.3	As-Built Total:				1974.0		-3760.6		
INFILTRATION				Area X BSPM = Points		Area X SPM = Points						
	1974.0	10.21	20184.6							1974.0	10.21	20184.6

These prints comply with the
Florida Manufactured Building
Act and adopted Codes and
adhere to the following criteria:

APPROVED BY



Const. Type:

Occupancy:

Allowable No.

of Floors:

Wind Velocity:

Fire Rating of

Ext. Walls:

Plan No.:

Allow. Floor Load:

Approval Date:

Manufacturer:

VB

R3

One (1)

130 MPH

0 hr

MFT-3359-3842-3986-E6307M

40 PSF

11/15/2006

Cavaller Home Builders

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , JACKSONVILLE, FL, 32223-

PERMIT #:

BASE				AS-BUILT									
Summer Base Points: 25778.8				Summer As-Built Points: 28442.7									
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
25778.8		0.4266	10997.2	28442.7		1.00		1.000		0.407		1.000	11589.0

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:

APPROVED BY



Const. Type:

VB

Occupancy:

R3

Allowable No.

of Floors:

One (1)

Wind Velocity:

130 MPH

Fire Rating of

Ext. Walls:

0 hr

Plan No.:

MFT-3359-3642-3986-E5307M

Allow. Floor Load:

40 PSF

Approval Date:

11/15/2006

Manufacturer:

Cavaller Home Builders

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , JACKSONVILLE, FL, 32223-

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned X BWPM = Points Floor Area				Type/SC	Overhang Omt Len Hgt			Area X WPM X WOF = Points			
.18	1974.0	12.74	4526.8	Double,U=0.48,Tint	E	0.0	0.0	105.0	9.38	1.00	985.4
				Double,U=0.48,Tint	W	0.0	0.0	89.7	10.89	1.00	1088.2
				Double,U=0.48,Tint	N	0.0	0.0	7.5	14.08	1.00	105.6
				As-Built Total:			212.2		2177.2		
WALL TYPES		Area X BWPM = Points		Type	R-Value		Area X WPM = Points				
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior	19.0		561.0	2.20		1234.2	
Exterior	1600.5	3.70	5921.9	Frame, Wood, Exterior	19.0		587.0	2.20		1247.4	
				Frame, Wood, Exterior	19.0		240.0	2.20		528.0	
				Frame, Wood, Exterior	19.0		232.5	2.20		511.5	
Base Total:		1600.5		As-Built Total:		1600.5		3521.1			
DOOR TYPES		Area X BWPM = Points		Type	R-Value		Area X WPM = Points				
Adjacent	0.0	0.00	0.0	Exterior Insulated			40.0	8.40		336.0	
Exterior	40.0	12.30	492.0								
Base Total:		40.0		As-Built Total:		40.0		336.0			
CEILING TYPES		Area X BWPM = Points		Type	R-Value		Area X WPM X WCM = Points				
Under Attic	1974.0	2.05	4046.7	Under Attic	33.0		1974.0	1.98 X 1.00		3869.0	
Base Total:		1974.0		As-Built Total:		1974.0		3869.0			
FLOOR TYPES		Area X BWPM = Points		Type	R-Value		Area X WPM = Points				
Slab	0.0(p)	0.0	0.0	Raised Wood, Stem Wall	11.0		1974.0	1.20		2368.8	
Raised	1974.0	0.98	1895.0								
Base Total:		1895.0		As-Built Total:		1974.0		2368.8			
INFILTRATION		Area X BWPM = Points				Area X WPM = Points					
		1974.0	-0.59			1974.0		-0.59		-1184.7	

These prints comply with the
Florida Manufactured Building
Act and adopted Codes and
adhere to the following criteria:

APPROVED BY



Const. Type:

VB

Occupancy:

R3

Allowable No.

of Floors:

One (1)

Wind Velocity:

130 MPH

Fire Rating of

Ext. Walls:

0 hr

Plan No.:

MFT-3359-3642-3986-E6307M

Allow. Floor Load:

40 PSF

Approval Date:

11/15/2006

Manufacturer:

Cavaller Home Builders

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , JACKSONVILLE, FL, 32223-

PERMIT #:

BASE			AS-BUILT					
Winter Base Points:			Winter As-Built Points:					
15717.7			11107.5					
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
15717.7	0.6274	9861.3	11107.5	1.00	1.000	0.590	1.000	6549.6

These prints comply with the
Florida Manufactured Building
Act and adopted Codes and
adhere to the following criteria:

APPROVED BY



Const. Type:	VB
Occupancy:	R3
Allowable No. of Floors:	One (1)
Wind Velocity:	130 MPH
Fire Rating of Ext. Walls:	0 hr
Plan No.:	MFT-3359-3842-3986-E5307M
Allow. Floor Load:	40 PSF
Approval Date:	11/15/2008
Manufacturer:	Cavaller Home Builders

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: , JACKSONVILLE, FL, 32223-

PERMIT #:

BASE				AS-BUILT					
WATER HEATING									
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X Tank Ratio	Multiplier X Credit	= Total Multiplier
4		2635.00	10540.0	50.0	0.91	4	1.00	2663.96	1.00
				As-Built Total:					
				10655.8					

CODE COMPLIANCE STATUS							
BASE				AS-BUILT			
Cooling Points	+	Heating Points	= Total Points	Cooling Points	+	Heating Points	= Total Points
10997		9861	10540	11589		6550	10656
			31399				28794

PASS



These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:

APPROVED BY

Const. Type:

VB

Occupancy:

R3

Allowable No.

of Floors:

One (1)

Wind Velocity:

130 MPH

Fire Rating of

Ext. Walls:

0 hr

Plan No.:

MFT-3359-3842-3986-E5307M

Allow. Floor Load:

40 PSF

Approval Date:

11/16/2008

Manufacturer:

Cavaller Home Builders

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: , JACKSONVILLE, FL, 32223-

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 joist 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.9.2. Switch or clearly marked air 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.	

These prints comply with the
Florida Manufactured Building
Act and adopted Codes and
adhere to the following criteria:

APPROVED BY



Const. Type:	VB
Occupancy:	R3
Allowable No. of Floors:	One (1)
Wind Velocity:	130 MPH
Fire Rating of Ext. Walls:	0 hr
Plan No.:	MFT-3358-3842-3988-E6307M
Allow. Floor Load:	40 PSF
Approval Date:	11/16/2008
Manufacturer:	Cavaller Home Builders

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 86.6

The higher the score, the more efficient the home.

., JACKSONVILLE, FL, 32223-

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 4
5. Is this a worst case? No
6. Conditioned floor area (ft²) 1974 ft²
7. Glass type¹ and area: (Label reqd. by 13-104.4.5 if not default)

a. U-factor:	Description	Area
(or Single or Double DEFAULT)	7a. (Dble, U=0.5)	105.0 ft ²
b. SHGC:		
(or Clear or Tint DEFAULT)	7b. (Tint)	212.2 ft ²
8. Floor types

a. Raised Wood, Stem Wall	R=11.0, 1974.0ft ²	
b. N/A		
c. N/A		
9. Wall types

a. Frame, Wood, Exterior	R=19.0, 561.0 ft ²	
b. Frame, Wood, Exterior	R=19.0, 567.0 ft ²	
c. Frame, Wood, Exterior	R=19.0, 240.0 ft ²	
d. Frame, Wood, Exterior	R=19.0, 232.5 ft ²	
e. N/A		
10. Ceiling types

a. Under Attic	R=33.0, 1974.0 ft ²	
b. N/A		
c. N/A		
11. Ducts

a. N/A		
b. N/A		

12. Cooling systems

a. N/A

b. N/A

c. N/A

13. Heating systems

a. N/A

b. N/A

c. N/A

14. Hot water systems

a. Electric Resistance

b. N/A

c. Conservation credits

(HR-Heat recovery, SH-Storage)

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)

VB	R3	One (1)	130 MPH	0 hr	MFT-3359-3642-3986-E6307M	40 PSF	11/15/2006	Cavalier Home Builders
----	----	---------	---------	------	---------------------------	--------	------------	------------------------

Const. Type:	Occupancy:	Allowable No. of Floors:	Wind Velocity:	Fire Rating of Ext. Walls:	Plan No.:	Allow. Floor Load:	Approval Date:	Manufacturer:
--------------	------------	--------------------------	----------------	----------------------------	-----------	--------------------	----------------	---------------

prints comply with the Florida Manufactured Building Code and adopted Codes and adhere to the following criteria:

APPROVED BY



Cap: 50.0 gallons

HR: 0.91

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.
EnergyGauge® (Version: FLRCSB v4.0)

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

Project Name: E5307M-CENTRAL		Builder:	
Address:		Permitting Office:	
City, State: LAKELAND, FL 33804-		Permit Number:	
Owner:		Jurisdiction Number:	
Climate Zone: Central			

<ol style="list-style-type: none"> 1. New construction or existing New <input type="checkbox"/> 2. Single family or multi-family Single family <input type="checkbox"/> 3. Number of units, if multi-family 1 <input type="checkbox"/> 4. Number of Bedrooms 4 <input type="checkbox"/> 5. Is this a worst case? No <input type="checkbox"/> 6. Conditioned floor area (ft²) 1974 ft² <input type="checkbox"/> 7. Glass type¹ and area: (Label reqd. by 13-104.4.5 if not default) <table style="width:100%; border: none;"> <tr> <td style="width:30%;">a. U-factor:</td> <td style="width:30%;">Description</td> <td style="width:40%;">Area</td> </tr> <tr> <td>(or Single or Double DEFAULT)</td> <td>7a. (Dble, U=0.5)</td> <td>105.0 ft²</td> </tr> <tr> <td>b. SHGC:</td> <td>7b. (Tint)</td> <td>212.2 ft²</td> </tr> <tr> <td>(or Clear or Tint DEFAULT)</td> <td></td> <td></td> </tr> </table> 8. Floor types <table style="width:100%; border: none;"> <tr> <td style="width:30%;">a. 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Frame, Wood, Exterior	R=19.0, 232.5 ft²	<input type="checkbox"/>	e. N/A		<input type="checkbox"/>	a. Under Attic	R=33.0, 1974.0 ft²	<input type="checkbox"/>	b. N/A		<input type="checkbox"/>	c. N/A		<input type="checkbox"/>	a. N/A	<input type="checkbox"/>	b. N/A	<input type="checkbox"/>	<ol style="list-style-type: none"> 12. Cooling systems <table style="width:100%; border: none;"> <tr> <td style="width:30%;">a. N/A</td> <td style="width:30%;">VB</td> <td style="width:30%;">R3</td> <td style="width:10%;">One (1)</td> <td style="width:10%;">130 MPH</td> <td style="width:10%;">0 hr</td> </tr> <tr> <td>b. N/A</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>c. N/A</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> 13. Heating systems <table style="width:100%; border: none;"> <tr> <td style="width:30%;">a. N/A</td> <td style="width:30%;">Const. 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Glass/Floor Area: 0.11

Total as-built points: 28546

Total base points: 29724

PASS

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

PREPARED BY: [Signature]DATE: 10-17-06

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: , LAKE LAND, FL, 33804-

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned X BSPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt		Area X SPM X SOF = Points				
.18	1974.0	25.78	9160.2	Double,U=0.48,Tint	E	0.0	0.0	105.0	46.98	1.00	4933.2
				Double,U=0.48,Tint	W	0.0	0.0	99.7	42.49	1.00	4235.9
				Double,U=0.48,Tint	N	0.0	0.0	7.5	22.70	1.00	170.2
				As-Built Total:				212.2		9339.3	
WALL TYPES Area X BSPM = Points				Type	R-Value		Area X SPM = Points				
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior	19.0		561.0	1.00	561.0		
Exterior	1600.5	1.80	3040.9	Frame, Wood, Exterior	19.0		567.0	1.00	567.0		
				Frame, Wood, Exterior	19.0		240.0	1.00	240.0		
				Frame, Wood, Exterior	19.0		232.5	1.00	232.5		
Base Total:		1600.5	3040.9	As-Built Total:				1600.5		1600.5	
DOOR TYPES Area X BSPM = Points				Type	Area X SPM = Points						
Adjacent	0.0	0.00	0.0	Exterior Insulated			40.0	4.80	192.0		
Exterior	40.0	4.80	192.0								
Base Total:		40.0	192.0	As-Built Total:				40.0		192.0	
CEILING TYPES Area X BSPM = Points				Type	R-Value		Area X SPM X SCM = Points				
Under Attic	1974.0	2.13	4204.6	Under Attic	33.0		1974.0	2.02 X 1.00	3989.9		
Base Total:		1974.0	4204.6	As-Built Total:				1974.0		3989.9	
FLOOR TYPES Area X BSPM = Points				Type	R-Value		Area X SPM = Points				
Slab	0.0(p)	0.0	0.0	Raised Wood, Stern Wall	11.0		1974.0	-2.20	-4342.8		
Raised	1974.0	-3.43	-6770.8								
Base Total:			-6770.8	As-Built Total:				1974.0		-4342.8	
INFILTRATION Area X BSPM = Points				Area X SPM = Points							
		1974.0	14.31					1974.0	14.31	28247.9	

These prints comply with the
Florida Manufactured Building
Act and adopted Codes and
adhere to the following criteria:

APPROVED BY



Const. Type:
Occupancy:
Allowable No.
of Floors:
Wind Velocity:
Fire Rating of
Ext. Walls:
Plan No.:
Allow. Floor Load:
Approval Date:
Manufacturer:

VB
R3
One (1)
130 MPH
0 hr
MFT-3359-3642-3988-E5307M
40 PSF
11/16/2008
Cavalier Home Builders

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , LAKELAND, FL, 33804-

PERMIT #:

BASE				AS-BUILT					
Summer Base Points: 38074.8				Summer As-Built Points: 39026.9					
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
38074.8	0.4266		16242.7	39026.9	1.00	1.000	0.407	1.000	15886.3

These prints comply with the
Florida Manufactured Building
Act and adopted Codes and
adhere to the following criteria:

APPROVED BY



Const. Type:	VB
Occupancy:	R3
Allowable No. of Floors:	One (1)
Wind Velocity:	130 MPH
Fire Rating of Ext. Walls:	0 hr
Plan No.:	MFT-3359-3642-3986-E6307M
Allow. Floor Load:	40 PSF
Approval Date:	11/15/2006
Manufacturer:	Cavaller Home Builders

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , LAKELAND, FL, 33804-

PERMIT #:

BASE				AS-BUILT									
GLASS TYPES .18 X Conditioned X BWPM = Points Floor Area				Type/SC	Overhang Omt Len Hgt			Area X WPM X WOF = Points					
.18	1974.0	5.88	2082.2	Double,U=0.48,Tint	E	0.0	0.0	105.0	4.88	1.00	481.1		
				Double,U=0.48,Tint	W	0.0	0.0	99.7	5.18	1.00	514.1		
				Double,U=0.48,Tint	N	0.0	0.0	7.5	6.30	1.00	47.2		
				As-Built Total:				212.2	1042.4				
WALL TYPES Area X BWPM = Points				Type	R-Value			Area X WPM = Points					
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior	19.0			581.0	1.10	617.1			
Exterior	1600.5	2.00	3201.0	Frame, Wood, Exterior	19.0			587.0	1.10	623.7			
				Frame, Wood, Exterior	19.0			240.0	1.10	264.0			
				Frame, Wood, Exterior	19.0			232.5	1.10	255.8			
Base Total:		1600.5	3201.0	As-Built Total:				1600.5	1780.6				
DOOR TYPES Area X BWPM = Points				Type	Area X WPM = Points								
Adjacent	0.0	0.00	0.0	Exterior Insulated				40.0	5.10	204.0			
Exterior	40.0	5.10	204.0										
Base Total:		40.0	204.0	As-Built Total:				40.0	204.0				
CEILING TYPES Area X BWPM = Points				Type	R-Value			Area X WPM X WCM = Points					
Under Attic	1974.0	0.64	1263.4	Under Attic	33.0			1974.0	0.61 X 1.00	1196.7			
Base Total:		1974.0	1263.4	As-Built Total:				1974.0	1196.7				
FLOOR TYPES Area X BWPM = Points				Type	R-Value			Area X WPM = Points					
Slab	0.0(p)	0.0	0.0	Raised Wood, Stem Wall	11.0			1974.0	0.50	987.0			
Raised	1974.0	-0.20	-394.8										
Base Total:			-394.8	As-Built Total:				1974.0	987.0				
INFILTRATION Area X BWPM = Points				Area X WPM = Points									
	1974.0	-0.28	-552.7								1974.0	-0.28	-552.7

These prints comply with the
Florida Manufactured Building
Act and adopted Codes and
adhere to the following criteria:

APPROVED BY



Const. Type:	VB
Occupancy:	R3
Allowable No. of Floors:	One (1)
Wind Velocity:	130 MPH
Fire Rating of Ext. Walls:	0 hr
Plan No.:	MFT-3359-3642-3986-E5307M
Allow. Floor Load:	40 PSF
Approval Date:	11/15/2006
Manufacturer:	Cavalier Home Builders

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , LAKELAND, FL, 33804-

PERMIT #:

BASE			AS-BUILT					
Winter Base Points: 5803.0			Winter As-Built Points: 4638.0					
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
5803.0	0.6274	3640.8	4638.0	1.00	1.000	0.585	1.000	2711.9

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:

APPROVED BY



Const. Type:	VB
Occupancy:	R3
Allowable No. of Floors:	One (1)
Wind Velocity:	130 MPH
Fire Rating of	
Ext. Walls:	0 hr
Plan No.:	MFT-3359-3642-3986-E6307M
Allow. Floor Load:	40 PSF
Approval Date:	11/15/2006
Manufacturer:	Cavaller Home Builders

WATER HEATING & CODE COMPLIANCE STATUS**Residential Whole Building Performance Method A - Details**

ADDRESS: , LAKELAND, FL, 33804-

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 = Total Multiplier
4		2460.00	9840.0	60.0	0.91	4	1.00	2467.03	1.00 9948.1
				As-Built Total:					9948.1

CODE COMPLIANCE STATUS							
BASE				AS-BUILT			
Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points	Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points
16243	3641	9840	29724	15886	2712	9948	28546

PASS

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:

APPROVED BY

Const. Type:	VB
Occupancy:	R3
Allowable No. of Floors:	One (1)
Wind Velocity:	130 MPH
Fire Rating of Ext. Walls:	0 hr
Plan No.:	MFT-3359-3642-3986-E6307M
Allow. Floor Load:	40 PSF
Approval Date:	11/15/2006
Manufacturer:	Cavaller Home Builders

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: , LAKELAND, FL, 33804-

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 joist 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 air 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.	

These prints comply with the
Florida Manufactured Building
Act and adopted Codes and
adhere to the following criteria:

APPROVED BY



Const. Type:

VB

Occupancy:

R3

Allowable No.

of Floors:

One (1)

Wind Velocity:

130 MPH

Fire Rating of

Ext. Walls:

0 hr

Plan No.:

MFT-3359-3642-3986-E5307M

Allow. Floor Load:

40 PSF

Approval Date:

11/18/2006

Manufacturer:

Cavalier Home Builders

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 86.4

The higher the score, the more efficient the home.

., LAKELAND, FL, 33804-

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 **4**
5. Is this a worst case? **No**
6. Conditioned floor area (ft²) **1974 ft²**
7. Glass type¹ and area: (Label reqd. by 13-104.4.5 if not default)

a. U-factor:	Description	Area
(or Single or Double DEFAULT)	7a. (Dble, U=0.5)	105.0 ft ²
b. SHGC:	7b. (Tint)	212.2 ft ²
(or Clear or Tint DEFAULT)		
8. Floor types

a. Raised Wood, Stem Wall	R=11.0, 1974.0ft ²
b. N/A	
c. N/A	
9. Wall types

a. Frame, Wood, Exterior	R=19.0, 561.0 ft ²
b. Frame, Wood, Exterior	R=19.0, 567.0 ft ²
c. Frame, Wood, Exterior	R=19.0, 240.0 ft ²
d. Frame, Wood, Exterior	R=19.0, 232.5 ft ²
e. N/A	
10. Ceiling types

a. Under Attic	R=33.0, 1974.0 ft ²
b. N/A	
c. N/A	
11. Ducts

a. N/A	
b. N/A	

12. Cooling systems
 - a. N/A
 - b. N/A
 - c. N/A

13. Heating systems
 - a. N/A
 - b. N/A
 - c. N/A

14. Hot water systems
 - a. Electric Resistance
 - b. N/A
 - c. Conservation credits

15. HVAC credits

(CF-Ceiling fan, CV-Cross ventilation,
HF-Whole house fan,
PT-Programmable Thermostat,
MZ-C-Multizone cooling,
MZ-H-Multizone heating)

VB
R3
One (1)
130 MPH
0 hr
MFT-3359-3642-3986-ES07M
40 PSF
11/15/2006
Cavalier Home Builders

Const. Type:
Occupancy:
Allowable No.
of Floors:
Wind Velocity:
Fire Rating of
Ext. Walls:
Plan No.:
Allow. Floor Load:
Approval Date:
Manufacturer:

These prints comply with the
Florida Manufactured Building
Act and adopted Codes and
adhere to the following criteria:

APPROVED BY

NIA INC.

Cap: 50.0 gallons
EF: 0.91

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 EnergyStarTM designation), your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 321/638-1492 or see the Energy Gauge web site at www.fsec.ucf.edu for information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Building Construction, contact the Department of Community Affairs at 850/487-1824.

¹ Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.
EnergyGauge® (Version: FLRCSB v4.0)

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

Project Name: E5307M-SOUTH	Builder:
Address:	Permitting Office:
City, State: FT. MYERS, FL 33932-	Permit Number:
Owner:	Jurisdiction Number
Climate Zone: South	

<p>1. New construction or existing New <input type="checkbox"/></p> <p>2. Single family or multi-family Single family <input type="checkbox"/></p> <p>3. Number of units, if multi-family 1 <input type="checkbox"/></p> <p>4. Number of Bedrooms 3 <input type="checkbox"/></p> <p>5. Is this a worst case? No <input type="checkbox"/></p> <p>6. Conditioned floor area (ft²) 1974 ft² <input type="checkbox"/></p> <p>7. Glass type¹ and area: (Label reqd. by 13-104.4.5 if not default)</p> <p>a. U-factor: Description Area (or Single or Double DEFAULT) 7a. (Dble, U=0.5) 32.5 ft² <input type="checkbox"/></p> <p>b. SHGC: (or Clear or Tint DEFAULT) 7b. (Tint) 113.2 ft² <input type="checkbox"/></p> <p>8. Floor types</p> <p>a. Raised Wood, Stem Wall R=11.0, 1974.0ft² <input type="checkbox"/></p> <p>b. N/A <input type="checkbox"/></p> <p>c. N/A <input type="checkbox"/></p> <p>9. Wall types</p> <p>a. Frame, Wood, Exterior R=19.0, 459.0 ft² <input type="checkbox"/></p> <p>b. Frame, Wood, Exterior R=19.0, 470.8 ft² <input type="checkbox"/></p> <p>c. Frame, Wood, Exterior R=19.0, 232.5 ft² <input type="checkbox"/></p> <p>d. Frame, Wood, Exterior R=19.0, 240.0 ft² <input type="checkbox"/></p> <p>e. N/A <input type="checkbox"/></p> <p>10. Ceiling types</p> <p>a. Under Attic R=33.0, 1974.0 ft² <input type="checkbox"/></p> <p>b. N/A <input type="checkbox"/></p> <p>c. N/A <input type="checkbox"/></p> <p>11. Ducts</p> <p>a. N/A <input type="checkbox"/></p> <p>b. N/A <input type="checkbox"/></p>	<p>12. Cooling systems VB R3 One (1) 130 MPH 0 hr <input type="checkbox"/></p> <p>a. N/A <input type="checkbox"/></p> <p>b. N/A <input type="checkbox"/></p> <p>c. N/A <input type="checkbox"/></p> <p>13. Heating systems</p> <p>a. N/A <input type="checkbox"/></p> <p>b. N/A <input type="checkbox"/></p> <p>c. N/A <input type="checkbox"/></p> <p>14. Hot water systems</p> <p>a. Electric Resistance <input type="checkbox"/></p> <p>b. N/A <input type="checkbox"/></p> <p>c. Conservation credits (HR-Heat recovery, DHP-Dedicated heat pump) <input type="checkbox"/></p> <p>15. HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating) <input type="checkbox"/></p>
---	---

Glass/Floor Area: 0.11

Total as-built points: 30148

Total base points: 30634

PASS

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

PREPARED BY: [Signature]DATE: 10-27-06

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.
EnergyGauge® (Version: FLRCSB v4.0)

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

ADDRESS: , FT. MYERS, FL, 33932-

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned X BSPM = Points Floor Area				Type/SC	Overhang Omt Len Hgt		Area X SPM X SOF = Points				
.18	1974.0	32.50	11547.9	Double,U=0.48,Tint	E	0.0	0.0	105.0	58.00	1.00	6090.3
				Double,U=0.48,Tint	W	0.0	0.0	25.0	52.30	1.00	1307.6
				Double,U=0.48,Tint	W	0.0	0.0	15.0	52.30	1.00	784.6
				Double,U=0.48,Tint	W	0.0	0.0	14.7	52.30	1.00	768.9
				Double,U=0.48,Tint	S	0.0	0.0	7.5	49.68	1.00	372.4
				Double,U=0.48,Tint	W	0.0	0.0	16.0	52.30	1.00	836.9
				Double,U=0.48,Tint	W	0.0	0.0	32.5	52.30	1.00	1699.9
				As-Built Total:		215.7			11880.5		
WALL TYPES Area X BSPM = Points				Type	R-Value		Area X SPM = Points				
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior	19.0		469.0	1.60	734.4		
Exterior	1402.3	2.70	3788.1	Frame, Wood, Exterior	19.0		470.8	1.60	753.2		
				Frame, Wood, Exterior	19.0		232.5	1.60	372.0		
				Frame, Wood, Exterior	19.0		240.0	1.60	384.0		
Base Total:	1402.3		3788.1	As-Built Total:		1402.3			2243.6		
DOOR TYPES Area X BSPM = Points				Type	Area X SPM = Points						
Adjacent	0.0	0.00	0.0	Exterior Insulated			40.0	6.40	256.0		
Exterior	40.0	6.40	256.0								
Base Total:	40.0		256.0	As-Built Total:		40.0			256.0		
CEILING TYPES Area X BSPM = Points				Type	R-Value		Area X SPM X SCM = Points				
Under Attic	1974.0	2.80	5527.2	Under Attic	33.0		1974.0	2.64 X 1.00	5216.3		
Base Total:	1974.0		5527.2	As-Built Total:		1974.0			5216.3		
FLOOR TYPES Area X BSPM = Points				Type	R-Value		Area X SPM = Points				
Slab	0.0(p)	0.0	0.0	Raised Wood, Stern Wall	11.0		1974.0	-0.60	-1184.4		
Raised	1974.0	-2.16	-4263.8								
Base Total:			-4263.8	As-Built Total:		1974.0			-1184.4		
INFILTRATION Area X BSPM = Points				Area X SPM = Points							
	1974.0	18.79	37091.5	1974.0 18.79 37091.5							

These prints comply with the
Florida Manufactured Building
Act and adopted Codes and
adhere to the following criteria:

Const. Type:	VB
Occupancy:	R3
Allowable No. of Floors:	One (1)
Wind Velocity:	130 MPH
Fire Rating of Ext. Walls:	0 hr
Plan No.:	MFT-3359-3842-3986-E5307M
Allow. Floor Load:	40 PSF
Approval Date:	11/15/2008
Manufacturer:	Cavaller Home Builders

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , FT. MYERS, FL, 33932-

PERMIT #:

BASE				AS-BUILT						
Summer Base Points: 53944.8				Summer As-Built Points: 55483.5						
Total Summer Points	X System Multiplier	= Cooling Points		Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x D8M x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points	
53944.8	0.4266	23012.8		55483.5	1.00	1.000	0.409	1.000	22693.4	

These prints comply with the
Florida Manufactured Building
Act and adopted Codes and
adhere to the following criteria:

APPROVED BY



Const. Type:	VB
Occupancy:	R3
Allowable No. of Floors:	One (1)
Wind Velocity:	130 MPH
Fire Rating of Ext. Walls:	0 hr
Plan No.:	MFT-3359-3642-3986-E5307M
Allow. Floor Load:	40 PSF
Approval Date:	11/15/2006
Manufacturer:	Cavaller Home Builders

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , FT. MYERS, FL, 33932-

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES											
.18 X Conditioned X BWPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt		Area X WPM X WOF = Points				
.18	1974.0	2.36	838.6	Double,U=0.48,Tint	E	0.0	0.0	105.0	1.67	1.00	175.2
				Double,U=0.48,Tint	W	0.0	0.0	25.0	2.23	1.00	55.7
				Double,U=0.48,Tint	W	0.0	0.0	15.0	2.23	1.00	33.4
				Double,U=0.48,Tint	W	0.0	0.0	14.7	2.23	1.00	32.7
				Double,U=0.48,Tint	S	0.0	0.0	7.5	1.54	1.00	11.5
				Double,U=0.48,Tint	W	0.0	0.0	16.0	2.23	1.00	35.8
				Double,U=0.48,Tint	W	0.0	0.0	32.5	2.23	1.00	72.4
				As-Built Total:				215.7		416.5	
WALL TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior	19.0		459.0	0.30	137.7		
Exterior	1402.3	0.60	841.4	Frame, Wood, Exterior	19.0		470.8	0.30	141.2		
				Frame, Wood, Exterior	19.0		232.5	0.30	69.8		
				Frame, Wood, Exterior	19.0		240.0	0.30	72.0		
Base Total:				As-Built Total:		1402.3		420.7			
DOOR TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Adjacent	0.0	0.00	0.0	Exterior Insulated	40.0		1.80	72.0			
Exterior	40.0	1.80	72.0								
Base Total:				As-Built Total:		40.0		72.0			
CEILING TYPES Area X BWPM = Points				Type	R-Value		Area X WPM X WCM = Points				
Under Attic	1974.0	0.10	197.4	Under Attic	33.0		1974.0	0.09 X 1.00	182.6		
Base Total:				As-Built Total:		1974.0		182.6			
FLOOR TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Slab	0.0(p)	0.0	0.0	Raised Wood, Stem Wall	11.0		1974.0	0.00	0.0		
Raised	1974.0	-0.28	-552.7								
Base Total:				As-Built Total:		1974.0		0.0			
INFILTRATION Area X BWPM = Points								Area X WPM = Points			
1974.0 -0.06 -118.4								1974.0 -0.06 -118.4			

These prints comply with the
Florida Manufactured Building
Act and adopted Codes and
adhere to the following criteria:

Const. Type:	VB
Occupancy:	R3
Allowable No. of Floors:	One (1)
Wind Velocity:	130 MPH
Fire Rating of Ext. Walls:	0 hr
Plan No.:	MFT-3359-3642-3986-E5307M
Allow. Floor Load:	40 PSF
Approval Date:	11/15/2006
Manufacturer:	Cavallier Home Builders

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , FT. MYERS, FL, 33932-

PERMIT #:

BASE				AS-BUILT					
Winter Base Points:		1278.1		Winter As-Built Points:				973.4	
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
1278.1		0.6274	801.9	973.4		1.00	1.000	0.576	1.000 560.3

These prints comply with the
Florida Manufactured Building
Act and adopted Codes and
adhere to the following criteria:

APPROVED BY



Const. Type:	VB
Occupancy:	R3
Allowable No. of Floors:	One (1)
Wind Velocity:	130 MPH
Fire Rating of Ext. Walls:	0 hr
Plan No.:	MFT-3358-3842-3986-E6307M
Allow. Floor Load:	40 PSF
Approval Date:	11/15/2006
Manufacturer:	Cavalier Home Builders

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: , FT. MYERS, FL, 33932-

PERMIT #:

BASE				AS-BUILT					
WATER HEATING				Tank Volume	EF	Number of Bedrooms	X Tank Ratio	X Multiplier	X Credit = Total Multiplier
Number of Bedrooms	X	Multiplier	= Total						
3		2273.00	6819.0	50.0	0.91	3	1.00	2297.98	1.00 6893.9
				As-Built Total:					6893.9

CODE COMPLIANCE STATUS							
BASE				AS-BUILT			
Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points	Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points
23013	802	6819	30634	22693	560	6894	30148

PASS



These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:

APPROVED BY

Const. Type:

VB

Occupancy:

R3

Allowable No.

of Floors:

One (1)

Wind Velocity:

130 MPH

Fire Rating of

Ext. Walls:

0 hr

Plan No.:

MFT-3359-3642-3986-E5307M

Allow. Floor Load:

40 PSF

Approval Date:

11/15/2006

Manufacturer:

Cavaller Home Builders

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: , FT. MYERS, FL, 33932-

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 joist 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 air 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.	

These prints comply with the
Florida Manufactured Building
Act and adopted Codes and
adhere to the following criteria:

APPROVED BY



Const. Type:	VB
Occupancy:	R3
Allowable No. of Floors:	One (1)
Wind Velocity:	130 MPH
Fire Rating of Ext. Walls:	0 hr
Plan No.:	MFT-3359-3642-3986-E8307M
Allow. Floor Load:	40 PSF
Approval Date:	11/15/2008
Manufacturer:	Cavaller Home Builders

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 86.4

The higher the score, the more efficient the home.

, , FT. MYERS, FL, 33932-

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) 1974 ft²
7. Glass type¹ and area: (Label reqd. by 13-104.4.5 if not default)

a. U-factor:	Description	Area
(or Single or Double DEFAULT)	7a. (Dble, U=0.5)	32.5 ft ²
b. SHGC:	7b. (Tint)	113.2 ft ²
(or Clear or Tint DEFAULT)		
8. Floor types

a. Raised Wood, Stem Wall	R=11.0, 1974.0ft ²	
b. N/A		
c. N/A		
9. Wall types

a. Frame, Wood, Exterior	R=19.0, 459.0 ft ²	
b. Frame, Wood, Exterior	R=19.0, 470.8 ft ²	
c. Frame, Wood, Exterior	R=19.0, 232.5 ft ²	
d. Frame, Wood, Exterior	R=19.0, 240.0 ft ²	
e. N/A		
10. Ceiling types

a. Under Attic	R=33.0, 1974.0 ft ²	
b. N/A		
c. N/A		
11. Ducts

a. N/A		
b. N/A		

12. Cooling systems

a. N/A

b. N/A

c. N/A

13. Heating systems

a. N/A

b. N/A

c. N/A

14. Hot water systems

a. Electric Resistance

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)

VB	R3	One (1)	130 MPH	0 hr	MFT-3359-3642-3986-E5307M	40 PSF	11/15/2006	Cavalier Home Builders
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Const. Type:	Occupancy:	Allowable No. of Floors:	Wind Velocity:	Fire Rating of Ext. Walls:	Plan No.:	Allow. Floor Load:	Approval Date:	Manufacturer:
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These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:

APPROVED BY



Cap: 50.0 gallons
EF: 0.91

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 EnergyStarTM designation), your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 321/638-1492 or see the Energy Gauge web site at www.fsec.ucf.edu for information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Building Construction, contact the Department of Community Affairs at 850/487-1824.

1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.
EnergyGauge® (Version: FLRCSB v4.0)

COLUMBIA COUNTY ALUMNI

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 36-4S-15-00414-104

Building permit No. 000025295

Use Classification MODULAR

Fire: 50.22

Permit Holder WILLIAM HARPER

Waste: 150.75

Owner of Building KIMBERLY & ZACHARY MEARS

Total: 200.97

Location: 356 SW PAUL ALLISON CT, LAKE CITY, FL

Date: 01/17/2007



Thany Dick

Building Inspector

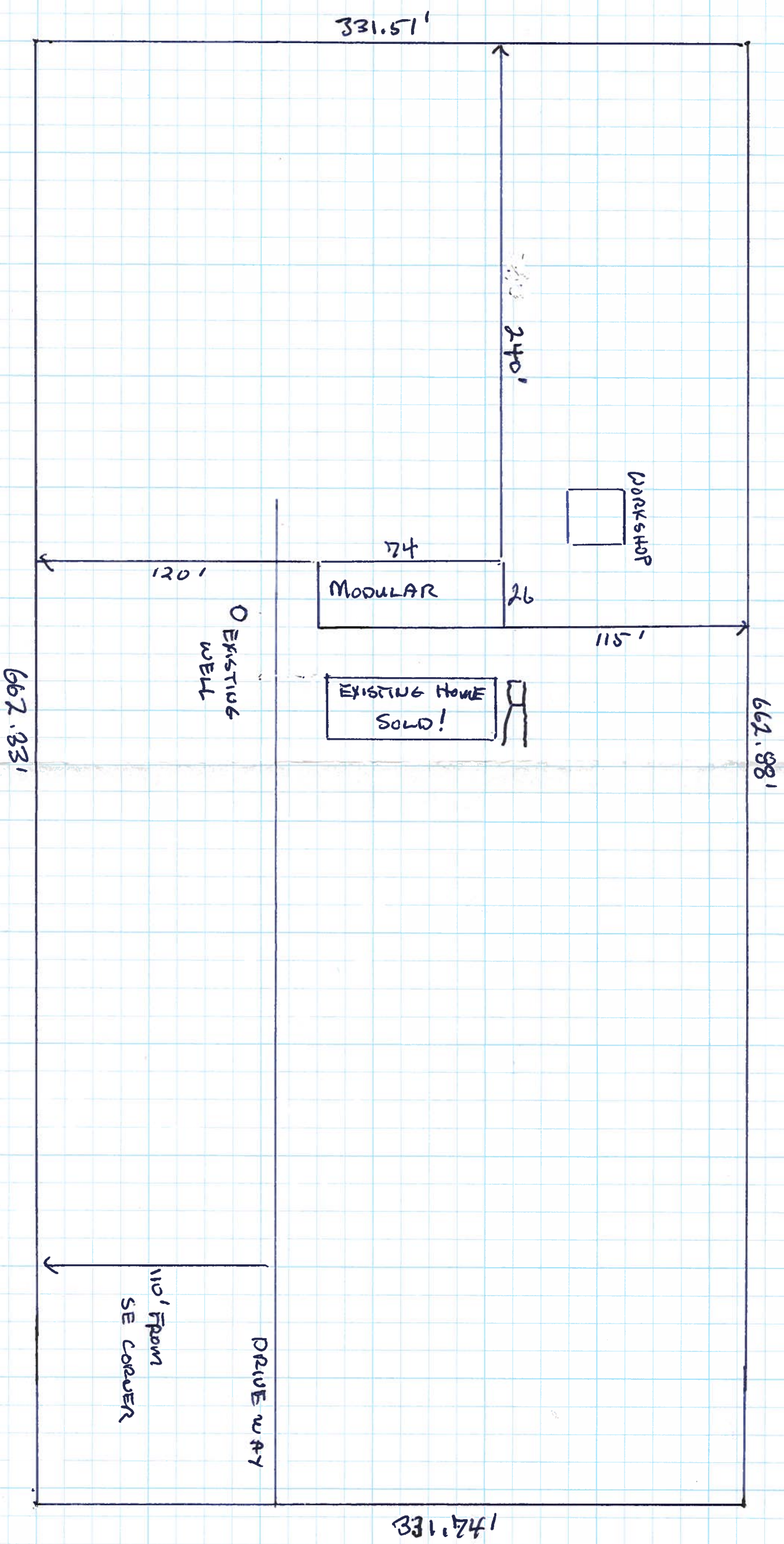
POST IN A CONSPICUOUS PLACE
(Business Places Only)

SITE PLAN

SCALE 1" = 50'

OWNER: KIMBERLY AND ZACHARY WEARS
CONTRACTOR: WILLIAM L. HARDER

PROPERTY 10 # 36-48-15-00414-104 HK



SW PAUL ALLISON CT.