

Columbia County Building Permit Application

For Office Use Only Application # 0701-68 Date Received 1/18/07 By LH Permit # 25470
 Application Approved by - Zoning Official BZK Date 23.01.07 Plans Examiner OK JTH Date 1-19-07
 Flood Zone A Development Permit N/A Zoning RSF-2 Land Use Plan Map Category RES Low Den.
 Comments _____

☒ NOC ☒ EH ☒ Deed or PA ☒ Site Plan ☐ State Road Info ☐ Parent Parcel # ☐ Development Permit

Name Authorized Person Signing Permit KEVIN Bedenbaugh Phone 386-792-4061
 Address PO Box 1416 Live Oak FL 32064

Owners Name Kenneth : Connie Callahan Phone 386-984-6998

911 Address 209 SW Callahan Ave. Lake City, FL 32024

Contractors Name Kevin Bedenbaugh / Plumb Level Const. Phone 792-4061

Address PO Box 1416 Live Oak, FL 32064

Fee Simple Owner Name & Address N/A

Bonding Co. Name & Address N/A

Architect/Engineer Name & Address William Yalke 33 Rockwood Ln. Monroeville, AL 36468

Mortgage Lenders Name & Address GMAC Bank Const. Lending Division 100 Walnut Rd. PA 19104

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

Property ID Number 15-45-16-03024-006 Estimated Cost of Construction 145,000

Subdivision Name N/A Lot _____ Block _____ Unit _____ Phase _____

Driving Directions 90 West to CR 247 Go South, Go to second light (caution) turn left on Callahan Avenue, second house on left.

Type of Construction Modular Number of Existing Dwellings on Property 0

Total Acreage 1.67 Lot Size _____ Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 110 Side 30 Side 45 Rear 270

Total Building Height 18 Number of Stories 1 Heated Floor Area 2248 Roof Pitch 6/12

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.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT 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 Authorized Person by Notarized Letter
 STATE OF FLORIDA
 COUNTY OF COLUMBIA
 My Commission # DD 326664
 EXPIRES: June 7, 2008
 Bonded Thru Notary Public Underwriters

Contractor Signature Kevin Bedenbaugh
 Contractors License Number _____
 Competency Card Number _____
 NOTARY STAMP/SEAL

I (or affirmed) and subscribed before me
 _____ day of January 2007
 known X or Produced Identification _____

Notary Signature Nicole Coleman
 (Revised Sept. 2006)

A & B Construction Inc.

P. O. Box 39

Ft. White, FL, 32038

386-497-2311

11/8/2006

To: Columbia County Health Department

Description of well to be installed for Customer:

Located at Address: Ken Callahan
S.W. Callahan Ave. Lake City, Fl. 32024

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


Rocky D. Ford
President
A&B Construction, Inc.

FAXED By: Kristina
Date: 1-18-07

FILE COPY

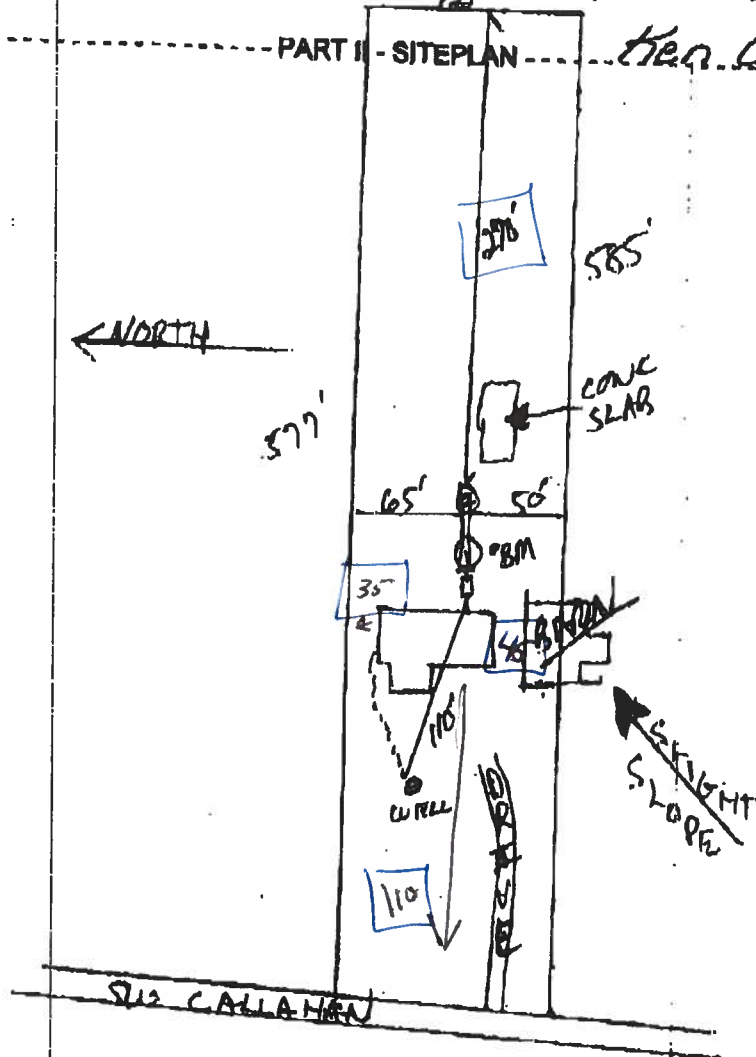
Dec. 20 2006 09:24AM P2

STATE OF FLORIDA
DEPARTMENT OF HEALTH
APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 16-0838-N

PART II - SITEPLAN

Scale: 1 inch = 50 feet.



Notes:

Site Plan submitted by:

Plan Approved

By

Not Approved

MASTER CONTRACTOR

Dates

County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

DM 4015, 10/88 (Replaces HRS-H Form 4015 which may be used)
(Stock Number: 5744-002-4015-6)

FILE COPY

RECEIVED
4-20-20

22-06D

26-0838

Permit No. _____ Tax Folio No. _____

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: **See Exhibit A attached hereto.**
a/k/a 209 SW Callahan Avenue, Lake City, FL 32024
2. General description of improvement:
Mobile Home Set Up
3. Owner information:
 - a. Name and address: **Connie E. Callahan & Kenneth H. Callahan**
 - b. Interest in property:
Fee Simple
 - c. Name and address of fee simple titleholder (if other than Owner):
4. Contractor: **Connie E. Callahan & Kenneth H. Callahan**
C & G Mobile Homes, Hwy 90 W, Lake City, Florida
5. Surety
 - a. Name and address:
 - b. Amount of bond \$ _____

6. Lender:

ATTN: Jane Vernon
GMAC Bank
Construction Lending Division
100 Witmer Road
Horsham, PA 19044

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

By *Sharon Leigh*
Deputy Clerk
Date 12-18-2006

7. Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1)(a)7., Florida Statutes:

8. In addition to himself, Owner designates _____ of _____ 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) _____.

Connie E. Callahan
Signature of Owner **Connie E. Callahan**

Kenneth H. Callahan
Signature of Owner **Kenneth H. Callahan**

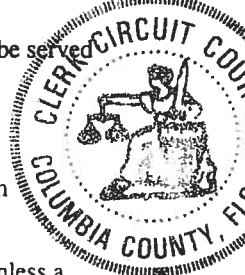
Sworn to and subscribed before me this 14th day of December, 2006

[Signature]
Notary Public, State of Florida

My Commission Expires:

Inst:2006029673 Date:12/18/2006 Time:15:17

12 DC, P. DeWitt Cason, Columbia County B:1105 P:531



FILE COPY

EXHIBIT "A"

Commence at the Northeast corner of Section 15, Township 4 South, Range 16 East, thence run S. 87 degrees 56'20" W. along the North line of said Section 15, a distance of 718.77 feet, to a concrete monument LS 4303, marking the Northeast corner of lands described in Official Records Book (ORB) 945, Page 1800, of the Official Records of Columbia County, Florida, and the Point of Beginning; thence S. 02 degrees 01 minutes 56" E., along the East line of said Official Records Book 945, Page 1800, a distance of 125.08 feet, to a 5/8 inch iron rod LS 4708; thence S. 87 degrees 56'34" W., parallel to said North line of Section 15, a distance of 585.42 feet to a nail and disk LS 4708, set on the East Right of Way line of Callahan Road, a 60 foot Public Right of Way; thence N. 01 degrees 28'46" E., along said East Right of Way line, a distance of 125.32 feet, to a 5/8 inch iron rod LS 4708, set on the aforementioned North line of Section 15, thence N. 87 degrees 56'34"E., along the North line of said Section 15, also being the North line of said Official Records Book 945, Page 1800, a distance of 577.74 feet to the Point of Beginning.

Inst:2006029673 Date:12/18/2006 Time:15:17

_____DC,P.Dewitt Cason,Columbia County B:1105 P:532

FILE COPY

Recording prepared by:

Kenneth Howard Callahan
5110 Greentree Drive
Nashville, TN

and when recorded, please return this deed
and tax statements to:

Ken Callahan
PO Box 866
Lake City, FL 32056

Above reserved for official use only

Grantee's SS No: 264494563

Property Appraiser's Parcel ID # 03024-000

GENERAL WARRANTY DEED

KNOW ALL MEN BY THESE PRESENTS THAT:

FOR A VALUABLE CONSIDERATION, in the amount of TEN AND NO/100 DOLLARS (\$10.00) in hand and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the undersigned, Juanita H. Callahan and Howard J. Callahan ("Grantor"), has GRANTED, SOLD and CONVEYED and by these presents does GRANT, BARGAIN, SELL and CONVEY to Kenneth H. Callahan and Connie E. Callahan ("Grantee"), all right, title, interest and claim to the following real property in the City of Lake City, County of Columbia, State of Florida with the following legal description:

COMMENCE AT THE NORTHEAST CORNER OF SECTION 15, TOWNSHIP 4 SOUTH, RANGE 16 EAST, THENCE RUN S. 87 DEGREES 56' 20" W. ALONG THE NORTH LINE OF SAID SECTION 15, A DISTANCE OF 718.77 FEET, TO A CONCRETE MONUMENT LS 4303, MARKING THE NORTHEAST CORNER OF LANDS DESCRIBED IN OFFICIAL RECORDS BOOK (ORB) 945, PAGE 1800, OF THE OFFICIAL RECORDS OF COLUMBIA COUNTY, FLORIDA, AND THE POINT OF BEGINNING; THENCE S.02 DEGREES 01 DEGREES 56" E., ALONG THE EAST LINE OF SAID ORB 945, PAGE 1800, A DISTANCE OF 125.08 FEET, TO A 5/8 INCH IRON ROD LS 4708; THENCE S.87 DEGREES 56'34" W., PARALLEL TO SAID NORTH LINE OF SECTION 15, A DISTANCE OF 585.42 FEET TO A NAIL AND DISK LS 4708, SET ON THE EAST RIGHT-OF-WAY LINE OF CALLAHAN ROAD, A 60 FOOT PUBLIC RIGHT-OF-WAY; THENCE N.01 DEGREES 28'46" E., ALONG SAID EAST RIGHT-OF-WAY LINE, A DISTANCE OF 125.32 FEET, TO A 5/8 INCH IRON ROD LS 4708, SET ON THE AFOREMENTIONED NORTH LINE OF SECTION 15, THENCE N. 87 DEGREES 56' 34"E., ALONG THE NORTH LINE OF SAID SECTION 15, ALSO BEING THE NORTH LINE OF SAID ORB 945, PAGE 1800, A DISTANCE OF 577.74 FEET TO THE POINT OF BEGINNING. CONTAINS 1.67 ACRES, MORE OR LESS.

TO HAVE AND TO HOLD all of Grantor's right, title and interest in and to the above described property unto the said Grantee, Grantee's heirs, administrators, executors, successors and/or assigns forever IN FEE SIMPLE; so that neither Grantor nor Grantor's heirs, administrators, executors, successors and/or assigns shall have, claim or demand any right or title to the aforesaid property, premises or appurtenances or any part thereof.

Grantor further WARRANTS and agrees to FOREVER DEFEND all and singular the said property unto the said Grantee, Grantee's heirs, executors, administrators, successors and/or assigns, against every person whomsoever claiming or to claim the same or any part thereof.

EXECUTED this day of July 26, 2006

Juanita Callahan Howard Callahan
(Signature of Grantor)

General Warranty Deed - 1

FILE COPY

Grantee's Address:

211 Callahan Ave SW
Lake City, FL 32024

Grantors Address:

5110 Greentree Drive
Nashville, TN 37211

Signed in our presence:

Marjorie M. Ogden
(Witness Signature)

Print Name: Marjorie M. Ogden

Linda Nettles
(Witness Signature)

Print Name: Linda Nettles

State of FLORIDA

County of

Columbia

) ss

The foregoing instrument was acknowledged before me on July 28, 2006
by Juanita H. Callahan & Howard J. Callahan who is/are personally known by me or
who has/have produced: NA as identification and who did not take an
oath.

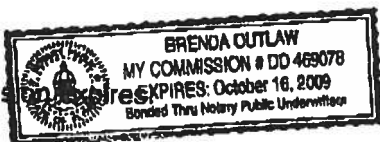
Brenda Outlaw

Signature of Notary Public

Brenda Outlaw

Printed Name of Notary

My commission



FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

Project Name: **TH-5FL**
Address: **TH-5FL NORTH**
City, State: **,**
Owner:
Climate Zone: **North**

Builder:
Permitting Office:
Permit Number:
Jurisdiction Number:

- | | | |
|---|---------------------|-----------|
| 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) | 2248 ft² | ___ |
| 7. Glass type ¹ 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) | 90.0 ft² |
| b. SHGC: | | ___ |
| (or Clear or Tint DEFAULT) | 7b. (Clear) | 247.3 ft² |
| 8. Floor types | | ___ |
| a. Raised Wood, Stem Wall | R=10.0, 2248.0 ft² | ___ |
| b. N/A | | ___ |
| c. N/A | | ___ |
| 9. Wall types | | ___ |
| a. Frame, Wood, Exterior | R=19.0, 1555.0 ft² | ___ |
| b. N/A | | ___ |
| c. N/A | | ___ |
| d. N/A | | ___ |
| e. N/A | | ___ |
| 10. Ceiling types | | ___ |
| a. Under Attic | R=30.0, 2248.0 ft² | ___ |
| b. N/A | | ___ |
| c. N/A | | ___ |
| 11. Ducts | | ___ |
| a. Sup: Unc. Ret: Unc. AH: Attic | Sup. R=6.0, 20.0 ft | ___ |
| b. N/A | | ___ |

- | | | |
|--|-------------------|-----|
| 12. Cooling systems | | ___ |
| a. Central Unit | Cap: 42.0 kBtu/hr | ___ |
| | SEER: 14.00 | ___ |
| b. N/A | | ___ |
| c. N/A | | ___ |
| 13. Heating systems | | ___ |
| a. Electric Heat Pump | Cap: 41.0 kBtu/hr | ___ |
| | HSPF: 7.70 | ___ |
| b. N/A | | ___ |
| c. N/A | | ___ |
| 14. Hot water systems | | ___ |
| a. Electric Resistance | Cap: 1.0 gallons | ___ |
| | EF: 0.97 | ___ |
| b. N/A | | ___ |
| c. Conservation credits | | ___ |
| (HR-Heat recovery, Solar | | ___ |
| DHP-Dedicated heat pump) | | ___ |
| 15. HVAC credits | PT, ___ | ___ |
| (CF-Ceiling fan, CV-Cross ventilation, | | ___ |
| HF-Whole house fan, | | ___ |
| PT-Programmable Thermostat, | | ___ |
| MZ-C-Multizone cooling, | | ___ |
| MZ-H-Multizone heating) | | ___ |

SEE MANUFACTURER'S CONTRACT
WITH FLORIDA DCA

Glass/Floor Area: 0.11

Total as-built points: 25557

Total base points: 28092

PASS

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

PREPARED BY:

DATE: 1/12/07

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.

Date: 1-12-07 Plan No.
Approved By: SCOTT S. FRANCIS

BUILDING OFFICIAL:

DATE: 1-12-07



¹ Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 284-285

FILE COPY

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: TH-5FL NORTH, , ,

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	2248.0	18.59	7522.0	1.Double,U=0.48,Clear	E	0.0	0.0	90.0	43.92	1.00	3952.0
				2.Double,U=0.48,Clear	W	0.0	0.0	45.0	40.43	1.00	1819.0
				3.Double, Clear	W	0.0	0.0	40.0	38.52	1.00	1540.0
				4.Double, Clear	W	0.0	0.0	12.3	38.52	1.00	471.0
				5.Double,U=0.48,Clear	S	0.0	0.0	30.0	37.73	1.00	1131.0
				6.Double,U=0.48,Clear	N	0.0	0.0	30.0	21.25	1.00	637.0
				As-Built Total:				247.3		9550.0	
WALL TYPES Area X BSPM = Points				Type	R-Value			Area X SPM = Points			
Adjacent	0.0	0.00	0.0	1. Frame, Wood, Exterior	19.0			1555.0	0.90	1399.5	
Exterior	1555.0	1.70	2643.5								
Base Total:		1555.0	2643.5	As-Built Total:				1555.0		1399.5	
DOOR TYPES Area X BSPM = Points				Type	Area X SPM = Points						
Adjacent	0.0	0.00	0.0	1.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	2248.0	1.73	3889.0	1. Under Attic	30.0			2248.0	1.73 X 1.00	3889.0	
Base Total:		2248.0	3889.0	As-Built Total:				2248.0		3889.0	
FLOOR TYPES Area X BSPM = Points				Type	R-Value			Area X SPM = Points			
Slab	0.0(p)	0.0	0.0	1. Raised Wood, Stem Wall	10.0			2248.0	-2.00	-4496.0	
Raised	2248.0	-3.99	-8969.5								
Base Total:		-8969.5		As-Built Total:				2248.0		-4496.0	
INFILTRATION Area X BSPM = Points				Area X SPM = Points							
		2248.0	10.21	22952.1				2248.0	10.21	22952.1	

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

ADDRESS: TH-5FL NORTH, , ,

PERMIT #:

BASE				AS-BUILT						
Summer Base Points: 28281.1				Summer As-Built Points: 33458.6						
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
28281.1	0.3250		9191.4	(sys 1: Central Unit 42000btuh ,SEER/EFF(14.0) Ducts:Unc(S),Unc(R),Att(AH),R6.0(INS) 33459 1.00 (1.09 x 1.147 x 1.11) 0.244 0.950 10753.6 33458.6 1.00 1.388 0.244 0.950 10753.6						

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: TH-5FL NORTH, , ,

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	2248.0	20.17	8162.0	1.Double,U=0.48,Clear	E	0.0	0.0	90.0	7.72	1.00	694.0
				2.Double,U=0.48,Clear	W	0.0	0.0	45.0	9.51	1.00	428.0
				3.Double, Clear	W	0.0	0.0	40.0	20.73	1.00	829.0
				4.Double, Clear	W	0.0	0.0	12.3	20.73	1.00	253.0
				5.Double,U=0.48,Clear	S	0.0	0.0	30.0	2.29	1.00	68.0
				6.Double,U=0.48,Clear	N	0.0	0.0	30.0	13.32	1.00	399.0
				As-Built Total:				247.3	2671.0		
WALL TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Adjacent	0.0	0.00	0.0	1. Frame, Wood, Exterior	19.0		1555.0	2.20		3421.0	
Exterior	1555.0	3.70	5753.5								
Base Total:				1555.0		5753.5		As-Built Total:		1555.0 3421.0	
DOOR TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Adjacent	0.0	0.00	0.0	1.Exterior Insulated			40.0	8.40		336.0	
Exterior	40.0	12.30	492.0								
Base Total:				40.0		492.0		As-Built Total:		40.0 336.0	
CEILING TYPES Area X BWPM = Points				Type	R-Value		Area X WPM X WCM = Points				
Under Attic	2248.0	2.05	4608.4	1. Under Attic	30.0		2248.0	2.05 X 1.00		4608.4	
Base Total:				2248.0		4608.4		As-Built Total:		2248.0 4608.4	
FLOOR TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Slab	0.0(p)	0.0	0.0	1. Raised Wood, Stem Wall	10.0		2248.0	1.30		2922.4	
Raised	2248.0	0.96	2158.1								
Base Total:				2158.1		As-Built Total:		2248.0		2922.4	
INFILTRATION Area X BWPM = Points								Area X WPM = Points			
2248.0 -0.59 -1326.3								2248.0 -0.59 -1326.3			

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: TH-5FL NORTH, , ,

PERMIT #:

BASE				AS-BUILT									
Winter Base Points: 19847.7				Winter As-Built Points: 12632.5									
Total Winter Points	X	System Multiplier	= Heating Points	Total Component (System - Points)	X	Cap Ratio (DM x DSM x AHU)	X	Duct Multiplier	X	System Multiplier	X	Credit Multiplier	= Heating Points
				(sys 1: Electric Heat Pump 41000 btuh ,EFF(7.7) Ducts:Unc(S),Unc(R),Att(AH),R6.0									
19847.7		0.5540	10995.6	12632.5	1.000	(1.069 x 1.169 x 1.10)	0.443			0.950		7305.7	
19847.7		0.5540	10995.6	12632.5	1.00	1.375	0.443			0.950		7305.7	

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: TH-5FL NORTH, , ,

PERMIT #:

BASE				AS-BUILT					
WATER HEATING									
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X	Tank X Ratio	Multiplier X Credit = Total Multiplier
3		2635.00	7905.0	1.0	0.97	3		1.00	2499.18
				As-Built Total:					7497.5

CODE COMPLIANCE STATUS									
BASE					AS-BUILT				
Cooling Points	+	Heating Points	+	Hot Water Points	= Total Points	Cooling Points	+	Heating Points	= Total Points
9191		10996		7905	28092	10754		7306	25557

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: TH-5FL NORTH, , ,

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* = 86.5

The higher the score, the more efficient the home.

, TH-5FL NORTH, , ,

1. New construction or existing	New	___	12. Cooling systems	
2. Single family or multi-family	Single family	___	a. Central Unit	Cap: 42.0 kBtu/hr ___
3. Number of units, if multi-family	1	___		SEER: 14.00 ___
4. Number of Bedrooms	3	___	b. N/A	___
5. Is this a worst case?	Yes	___	c. N/A	___
6. Conditioned floor area (ft ²)	2248 ft ²	___		___
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)		___	13. Heating systems	
a. U-factor:	Description Area		a. Electric Heat Pump	Cap: 41.0 kBtu/hr ___
(or Single or Double DEFAULT)	7a. (Dble, U=0.5)	90.0 ft ² ___		HSPF: 7.70 ___
b. SHGC:			b. N/A	___
(or Clear or Tint DEFAULT)	7b. (Clear)	247.3 ft ² ___	c. N/A	___
8. Floor types				___
a. Raised Wood, Stem Wall	R=10.0, 2248.0ft ²	___	14. Hot water systems	
b. N/A		___	a. Electric Resistance	Cap: 1.0 gallons ___
c. N/A		___		EF: 0.97 ___
9. Wall types			b. N/A	___
a. Frame, Wood, Exterior	R=19.0, 1555.0 ft ²	___	c. Conservation credits	
b. N/A		___	(HR-Heat recovery, Solar	
c. N/A		___	DHP-Dedicated heat pump)	
d. N/A		___	15. HVAC credits	PT, ___
e. N/A		___	(CF-Ceiling fan, CV-Cross ventilation,	
10. Ceiling types			HF-Whole house fan,	
a. Under Attic	R=30.0, 2248.0 ft ²	___	PT-Programmable Thermostat,	
b. N/A		___	MZ-C-Multizone cooling,	
c. N/A		___	MZ-H-Multizone heating)	
11. Ducts				
a. Sup: Unc. Ret: Unc. AH: Attic	Sup. R=6.0, 20.0 ft	___		
b. N/A		___		

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 v4.5)

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

Project Name: TH-5FL	Builder:
Address: TH-5FL CENTRAL	Permitting Office:
City, State: ,	Permit Number:
Owner:	Jurisdiction Number:
Climate Zone: Central	

<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 3 —</p> <p>5. Is this a worst case? Yes —</p> <p>6. Conditioned floor area (ft²) 2248 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) 90.0 ft² —</p> <p>b. SHGC:</p> <p>(or Clear or Tint DEFAULT) 7b. (Clear) 247.3 ft² —</p> <p>8. Floor types</p> <p>a. Raised Wood, Stem Wall R=10.0, 2248.0ft² —</p> <p>b. N/A —</p> <p>c. N/A —</p> <p>9. Wall types</p> <p>a. Frame, Wood, Exterior R=19.0, 1555.0 ft² —</p> <p>b. N/A —</p> <p>c. N/A —</p> <p>d. N/A —</p> <p>e. N/A —</p> <p>10. Ceiling types</p> <p>a. Under Attic R=30.0, 2248.0 ft² —</p> <p>b. N/A —</p> <p>c. N/A —</p> <p>11. Ducts</p> <p>a. Sup: Unc. Ret: Unc. AH: Attic Sup. R=6.0, 20.0 ft —</p> <p>b. N/A —</p>	<p>12. Cooling systems</p> <p>a. Central Unit Cap: 42.0 kBtu/hr —</p> <p>SEER: 14.00 —</p> <p>b. N/A —</p> <p>c. N/A —</p> <p>13. Heating systems</p> <p>a. Electric Heat Pump Cap: 41.0 kBtu/hr —</p> <p>HSPF: 7.70 —</p> <p>b. N/A —</p> <p>c. N/A —</p> <p>14. Hot water systems</p> <p>a. Electric Resistance Cap: 1.0 gallons —</p> <p>EF: 0.97 —</p> <p>b. N/A —</p> <p>c. Conservation credits</p> <p>(HR-Heat recovery, Solar</p> <p>DHP-Dedicated heat pump)</p> <p>15. HVAC credits PT, —</p> <p>(CF-Ceiling fan, CV-Cross ventilation,</p> <p>HF-Whole house fan,</p> <p>PT-Programmable Thermostat,</p> <p>MZ-C-Multizone cooling,</p> <p>MZ-H-Multizone heating)</p>
---	---

SEE MANUFACTURER'S CONTRACT
WITH FLORIDA DCA.

Glass/Floor Area: 0.11 Total as-built points: 24626
Total base points: 25187

PASS

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

PREPARED BY: W
DATE: 1/17/07

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.

Approved By **SCOTT S. FRANCIS**

BUILDING OFFICIAL: 2198-0014 F
DATE: _____



¹ Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 284.

Residential Whole Building Performance Method A - Details

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	2248.0	24.35	9853.0	1.Double,U=0.48,Clear	W	0.0	0.0	90.0	51.98	1.00	4678.0
				2.Double,U=0.48,Clear	E	0.0	0.0	45.0	57.38	1.00	2581.0
				3.Double, Clear	E	0.0	0.0	40.0	55.69	1.00	2227.0
				4.Double, Clear	E	0.0	0.0	12.3	55.69	1.00	682.0
				5.Double,U=0.48,Clear	N	0.0	0.0	30.0	28.23	1.00	846.0
				6.Double,U=0.48,Clear	S	0.0	0.0	30.0	43.70	1.00	1310.0
				As-Built Total:			247.3			12324.0	
WALL TYPES Area X BSPM = Points				Type	R-Value			Area X SPM = Points			
Adjacent	0.0	0.00	0.0	1. Frame, Wood, Exterior			19.0	1555.0	1.00	1555.0	
Exterior	1555.0	1.90	2954.5								
Base Total:		1555.0	2954.5	As-Built Total:			1555.0			1555.0	
DOOR TYPES Area X BSPM = Points				Type				Area X SPM = Points			
Adjacent	0.0	0.00	0.0	1.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	2248.0	2.13	4788.2	1. Under Attic			30.0	2248.0	2.13 X 1.00	4788.2	
Base Total:		2248.0	4788.2	As-Built Total:			2248.0			4788.2	
FLOOR TYPES Area X BSPM = Points				Type	R-Value			Area X SPM = Points			
Slab	0.0(p)	0.0	0.0	1. Raised Wood, Stem Wall			10.0	2248.0	-2.35	-5282.8	
Raised	2248.0	-3.43	-7710.6								
Base Total:		-7710.6		As-Built Total:			2248.0			-5282.8	
INFILTRATION Area X BSPM = Points							Area X SPM = Points				
		2248.0	14.31					2248.0	14.31	32168.9	

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

ADDRESS: TH-5FL CENTRAL, , ,

PERMIT #:

BASE				AS-BUILT						
Summer Base Points: 42246.0				Summer As-Built Points: 45745.3						
Total Summer Points	X System Multiplier	=	Cooling Points	Total Component (System - Points)	X Cap Ratio (DM x DSM x AHU)	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	=	Cooling Points
42246.0	0.3250		13729.9	45745	1.00	(1.09 x 1.150 x 1.10)	0.244	0.950		14555.2
				45745.3	1.00	1.375	0.244	0.950		14555.2

(sys 1: Central Unit 42000btuh ,SEER/EFF(14.0) Ducts:Unc(S),Unc(R),Att(AH),R6.0(INS)

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: TH-5FL CENTRAL, , ,

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	2248.0	9.11	3686.0	1.Double,U=0.48,Clear	W	0.0	0.0	90.0	4.66	1.00	419.0	
				2.Double,U=0.48,Clear	E	0.0	0.0	45.0	3.98	1.00	178.0	
				3.Double, Clear	E	0.0	0.0	40.0	8.82	1.00	352.0	
				4.Double, Clear	E	0.0	0.0	12.3	8.82	1.00	108.0	
				5.Double,U=0.48,Clear	N	0.0	0.0	30.0	6.03	1.00	180.0	
				6.Double,U=0.48,Clear	S	0.0	0.0	30.0	1.96	1.00	58.0	
				As-Built Total:				247.3				1295.0
WALL TYPES Area X BWPM = Points				Type	R-Value			Area X WPM = Points				
Adjacent	0.0	0.00	0.0	1. Frame, Wood, Exterior	19.0			1555.0	1.10	1710.5		
Exterior	1555.0	2.00	3110.0									
Base Total:				1555.0				3110.0				
As-Built Total:				1555.0				1710.5				
DOOR TYPES Area X BWPM = Points				Type				Area X WPM = Points				
Adjacent	0.0	0.00	0.0	1.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	2248.0	0.64	1438.7	1. Under Attic	30.0			2248.0	0.64 X 1.00	1438.7		
Base Total:				2248.0				1438.7				
As-Built Total:				2248.0				1438.7				
FLOOR TYPES Area X BWPM = Points				Type	R-Value			Area X WPM = Points				
Slab	0.0(p)	0.0	0.0	1. Raised Wood, Stem Wall	10.0			2248.0	0.55	1236.4		
Raised	2248.0	-0.20	-449.6									
Base Total:				-449.6				1236.4				
As-Built Total:				2248.0				1236.4				
INFILTRATION Area X BWPM = Points							Area X WPM = Points					
2248.0				-0.28			-629.4					
							2248.0			-0.28		-629.4

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: TH-5FL CENTRAL, , ,

PERMIT #:

BASE				AS-BUILT						
Winter Base Points:		7359.7		Winter As-Built Points:				5255.2		
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	
7359.7		0.5540	4077.3	(sys 1: Electric Heat Pump 41000 btuh ,EFF(7.7) Ducts:Unc(S),Unc(R),Att(AH),R6.0 5255.2 1.000 (1.078 x 1.160 x 1.11)0.443 0.950 3071.5 5255.2 1.00 1.388 0.443 0.950 3071.5						

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: TH-5FL CENTRAL, , ,

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* = 86.9

The higher the score, the more efficient the home.

, TH-5FL CENTRAL, , ,

1. New construction or existing	New	___	12. Cooling systems	
2. Single family or multi-family	Single family	___	a. Central Unit	Cap: 42.0 kBtu/hr ___
3. Number of units, if multi-family	1	___		SEER: 14.00 ___
4. Number of Bedrooms	3	___	b. N/A	___
5. Is this a worst case?	Yes	___	c. N/A	___
6. Conditioned floor area (ft ²)	2248 ft ²	___		___
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)		___	13. Heating systems	
a. U-factor:	Description Area	___	a. Electric Heat Pump	Cap: 41.0 kBtu/hr ___
(or Single or Double DEFAULT)	7a. (Dble, U=0.5) 90.0 ft ²	___		HSPF: 7.70 ___
b. SHGC:		___	b. N/A	___
(or Clear or Tint DEFAULT)	7b. (Clear) 247.3 ft ²	___	c. N/A	___
8. Floor types		___	14. Hot water systems	
a. Raised Wood, Stem Wall	R=10.0, 2248.0ft ²	___	a. Electric Resistance	Cap: 1.0 gallons ___
b. N/A	___	___		EF: 0.97 ___
c. N/A	___	___	b. N/A	___
9. Wall types		___	c. Conservation credits	___
a. Frame, Wood, Exterior	R=19.0, 1555.0 ft ²	___	(HR-Heat recovery, Solar	
b. N/A	___	___	DHP-Dedicated heat pump)	
c. N/A	___	___	15. HVAC credits	PT, ___
d. N/A	___	___	(CF-Ceiling fan, CV-Cross ventilation,	
e. N/A	___	___	HF-Whole house fan,	
10. Ceiling types		___	PT-Programmable Thermostat,	
a. Under Attic	R=30.0, 2248.0 ft ²	___	MZ-C-Multizone cooling,	
b. N/A	___	___	MZ-H-Multizone heating)	
c. N/A	___	___		
11. Ducts		___		
a. Sup: Unc. Ret: Unc. AH: Attic	Sup. R=6.0, 20.0 ft	___		
b. N/A	___	___		

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.

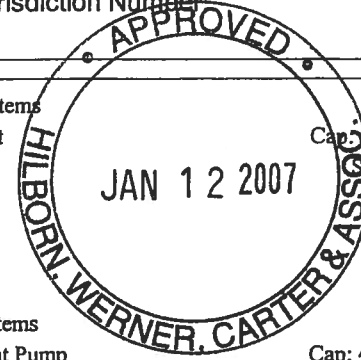
¹ Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.
EnergyGauge® (Version: FLRCSB v4.5)

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

Project Name: TH-5FL	Builder:
Address: TH-5FL SOUTH	Permitting Office:
City, State: ,	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? Yes <input type="checkbox"/></p> <p>6. Conditioned floor area (ft²) 2248 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</p> <p>(or Single or Double DEFAULT) 7a. (Dble, U=0.5) 90.0 ft² <input type="checkbox"/></p> <p>b. SHGC: 7b. (Clear) 247.3 ft² <input type="checkbox"/></p> <p>(or Clear or Tint DEFAULT)</p> <p>8. Floor types</p> <p>a. Raised Wood, Stem Wall R=10.0, 2248.0ft² <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, 1555.0 ft² <input type="checkbox"/></p> <p>b. N/A <input type="checkbox"/></p> <p>c. N/A <input type="checkbox"/></p> <p>d. N/A <input type="checkbox"/></p> <p>e. N/A <input type="checkbox"/></p> <p>10. Ceiling types</p> <p>a. Under Attic R=30.0, 2248.0 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. Sup: Unc. Ret: Unc. AH: Attic Sup. R=6.0, 20.0 ft <input type="checkbox"/></p> <p>b. N/A <input type="checkbox"/></p>	<p>12. Cooling systems</p> <p>a. Central Unit Cap: 2.0 kBtu/hr <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. Electric Heat Pump Cap: 41.0 kBtu/hr <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 Cap: 1.0 gallons <input type="checkbox"/></p> <p>b. N/A <input type="checkbox"/></p> <p>c. Conservation credits EF: 0.97 <input type="checkbox"/></p> <p>(HR-Heat recovery, Solar DHP-Dedicated heat pump)</p> <p>15. HVAC credits PT, <input type="checkbox"/></p> <p>(CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)</p>
--	--



SEE MANUFACTURER'S CONTRACT
WITH FLORIDA DCA.

Glass/Floor Area: 0.11

Total as-built points: 27501

Total base points: 27542

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: 1/12/07

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.

Date 1-12-07 Plan No. _____

BUILDING OFFICIAL: SCOTT S. FRANCIS

DATE: 2198-00141



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: TH-5FL SOUTH, , ,

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	2248.0	30.53	12354.0	1.Double,U=0.48,Clear	W	0.0	0.0	90.0	64.08	1.00	5767.0
				2.Double,U=0.48,Clear	E	0.0	0.0	45.0	70.94	1.00	3192.0
				3.Double, Clear	E	0.0	0.0	40.0	68.60	1.00	2743.0
				4.Double, Clear	E	0.0	0.0	12.3	68.60	1.00	840.0
				5.Double,U=0.48,Clear	N	0.0	0.0	30.0	34.70	1.00	1041.0
				6.Double,U=0.48,Clear	S	0.0	0.0	30.0	60.89	1.00	1826.0
				As-Built Total:			247.3			15409.0	
WALL TYPES Area X BSPM = Points				Type	R-Value			Area X SPM = Points			
Adjacent	0.0	0.00	0.0	1. Frame, Wood, Exterior	19.0			1555.0	1.60	2488.0	
Exterior	1555.0	2.70	4198.5								
Base Total:				1555.0			4198.5			As-Built Total:	
							1555.0			2488.0	
DOOR TYPES Area X BSPM = Points				Type	R-Value			Area X SPM = Points			
Adjacent	0.0	0.00	0.0	1.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	2248.0	2.80	6294.4	1. Under Attic	30.0			2248.0	2.77 X 1.00	6227.0	
Base Total:				2248.0			6294.4			As-Built Total:	
							2248.0			6227.0	
FLOOR TYPES Area X BSPM = Points				Type	R-Value			Area X SPM = Points			
Slab	0.0(p)	0.0	0.0	1. Raised Wood, Stern Wall	10.0			2248.0	-0.68	-1517.4	
Raised	2248.0	-2.16	-4855.7								
Base Total:				-4855.7			As-Built Total:			2248.0	
							2248.0			-1517.4	
INFILTRATION Area X BSPM = Points							Area X SPM = Points				
2248.0 18.79 42239.9							2248.0 18.79			42239.9	

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

ADDRESS: TH-5FL SOUTH, , ,

PERMIT #:

BASE				AS-BUILT									
Summer Base Points: 60487.1				Summer As-Built Points: 65102.5									
Total Summer Points	X	System Multiplier	= Cooling Points	Total Component (System - Points)	X	Cap Ratio (DM x DSM x AHU)	X	Duct Multiplier	X	System Multiplier	X	Credit Multiplier	= Cooling Points
60487.1		0.3250	19658.3	(sys 1: Central Unit 42000btuh ,SEER/EFF(14.0) Ducts:Unc(S),Unc(R),Att(AH),R6.0(INS) 65102	1.00	(1.07 x 1.165 x 1.08)	0.244	0.950	20337.5				
				65102.5	1.00	1.350	0.244	0.950	20337.5				

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: TH-5FL SOUTH, , ,

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	2248.0	3.60	1457.0	1.Double,U=0.48,Clear	W	0.0	0.0	90.0	2.09	1.00	188.0
				2.Double,U=0.48,Clear	E	0.0	0.0	45.0	1.43	1.00	64.0
				3.Double, Clear	E	0.0	0.0	40.0	3.30	1.00	131.0
				4.Double, Clear	E	0.0	0.0	12.3	3.30	1.00	40.0
				5.Double,U=0.48,Clear	N	0.0	0.0	30.0	2.47	1.00	73.0
				6.Double,U=0.48,Clear	S	0.0	0.0	30.0	1.27	1.00	37.0
				As-Built Total:			247.3		533.0		
WALL TYPES Area X BWPM = Points				Type	R-Value			Area X WPM = Points			
Adjacent	0.0	0.00	0.0	1. Frame, Wood, Exterior	19.0			1555.0	0.30	466.5	
Exterior	1555.0	0.60	933.0								
Base Total: 1555.0 933.0				As-Built Total:			1555.0		466.5		
DOOR TYPES Area X BWPM = Points				Type				Area X WPM = Points			
Adjacent	0.0	0.00	0.0	1.Exterior Insulated				40.0	1.80	72.0	
Exterior	40.0	1.80	72.0								
Base Total: 40.0 72.0				As-Built Total:			40.0		72.0		
CEILING TYPES Area X BWPM = Points				Type	R-Value			Area X WPM X WCM = Points			
Under Attic	2248.0	0.10	224.8	1. Under Attic	30.0			2248.0	0.10 X 1.00	224.8	
Base Total: 2248.0 224.8				As-Built Total:			2248.0		224.8		
FLOOR TYPES Area X BWPM = Points				Type	R-Value			Area X WPM = Points			
Slab	0.0(p)	0.0	0.0	1. Raised Wood, Stem Wall	10.0			2248.0	0.00	0.0	
Raised	2248.0	-0.28	-629.4								
Base Total: -629.4				As-Built Total:			2248.0		0.0		
INFILTRATION Area X BWPM = Points							Area X WPM = Points				
2248.0 -0.06 -134.9							2248.0		-0.06		-134.9

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

ADDRESS: TH-5FL SOUTH, , ,

PERMIT #:

BASE				AS-BUILT									
Winter Base Points: 1922.5				Winter As-Built Points: 1161.4									
Total Winter Points	X	System Multiplier	= Heating Points	Total Component (System - Points)	X	Cap Ratio (DM x DSM x AHU)	X	Duct Multiplier	X	System Multiplier	X	Credit Multiplier	= Heating Points
1922.5		0.5540	1065.1	(sys 1: Electric Heat Pump 41000 btuh ,EFF(7.7) Ducts:Unc(S),Unc(R),Att(AH),R6.0 1161.4 1.000 (1.099 x 1.137 x 1.14) 0.443 0.950 696.0 1161.4 1.00 1.425 0.443 0.950 696.0									

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: TH-5FL SOUTH, , ,

PERMIT #:

BASE				AS-BUILT					
WATER HEATING				Tank	EF	Number of	X	Tank X	Multiplier X Credit = Total
Number of	X	Multiplier	= Total	Volume		Bedrooms		Ratio	Multiplier
Bedrooms									
3		2273.00	6819.0	1.0	0.97	3		1.00	2155.83 1.00 6467.5
				As-Built Total:					6467.5

CODE COMPLIANCE STATUS

BASE						AS-BUILT					
Cooling Points	+	Heating Points	+	Hot Water Points	= Total Points	Cooling Points	+	Heating Points	+	Hot Water Points	= Total Points
19658		1065		6819	27542	20337		696		6468	27501

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: TH-5FL SOUTH, , ,

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* = 87.2

The higher the score, the more efficient the home.

, TH-5FL SOUTH, , ,

1. New construction or existing	New	___	12. Cooling systems	
2. Single family or multi-family	Single family	___	a. Central Unit	Cap: 42.0 kBtu/hr ___ SEER: 14.00 ___
3. Number of units, if multi-family	1	___	b. N/A	___
4. Number of Bedrooms	3	___	c. N/A	___
5. Is this a worst case?	Yes	___		___
6. Conditioned floor area (ft ²)	2248 ft ²	___	13. Heating systems	
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)		___	a. Electric Heat Pump	Cap: 41.0 kBtu/hr ___ HSPF: 7.70 ___
a. U-factor:	Description Area	___	b. N/A	___
(or Single or Double DEFAULT)	7a. (Dble, U=0.5)	90.0 ft ² ___	c. N/A	___
b. SHGC:		___		___
(or Clear or Tint DEFAULT)	7b. (Clear)	247.3 ft ² ___	14. Hot water systems	
8. Floor types		___	a. Electric Resistance	Cap: 1.0 gallons ___ EF: 0.97 ___
a. Raised Wood, Stern Wall	R=10.0, 2248.0ft ²	___	b. N/A	___
b. N/A		___	c. Conservation credits	
c. N/A		___	(HR-Heat recovery, Solar	
9. Wall types		___	DHP-Dedicated heat pump)	
a. Frame, Wood, Exterior	R=19.0, 1555.0 ft ²	___	15. HVAC credits	PT, ___
b. N/A		___	(CF-Ceiling fan, CV-Cross ventilation,	
c. N/A		___	HF-Whole house fan,	
d. N/A		___	PT-Programmable Thermostat,	
e. N/A		___	MZ-C-Multizone cooling,	
10. Ceiling types		___	MZ-H-Multizone heating)	
a. Under Attic	R=30.0, 2248.0 ft ²	___		
b. N/A		___		
c. N/A		___		
11. Ducts		___		
a. Sup: Unc. Ret: Unc. AH: Attic	Sup. R=6.0, 20.0 ft	___		
b. N/A		___		

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.

PRODUCT APPROVAL

TOWNHOMES, LLC
MODEL NUMBER: TH-5FL
HWC NUMBER: 2198-0014F

EXTERIOR DOORS

<u>CATEGORY</u>	<u>MANUFACTURER</u>	<u>DESCRIPTION</u>	<u>APPROVAL #</u>
SWINGING DOUBLE	ELIXER JELD-WEN	EXTERIOR DOOR EXT. DOUBLE DOOR	FL1722-R1 FL3942

EXTERIOR WINDOWS

<u>CATEGORY</u>	<u>MANUFACTURER</u>	<u>DESCRIPTION</u>	<u>APPROVAL #</u>
SINGLE HUNG	KINRO	SINGLE HUNG	FL993-R2

EXTERIOR WALL

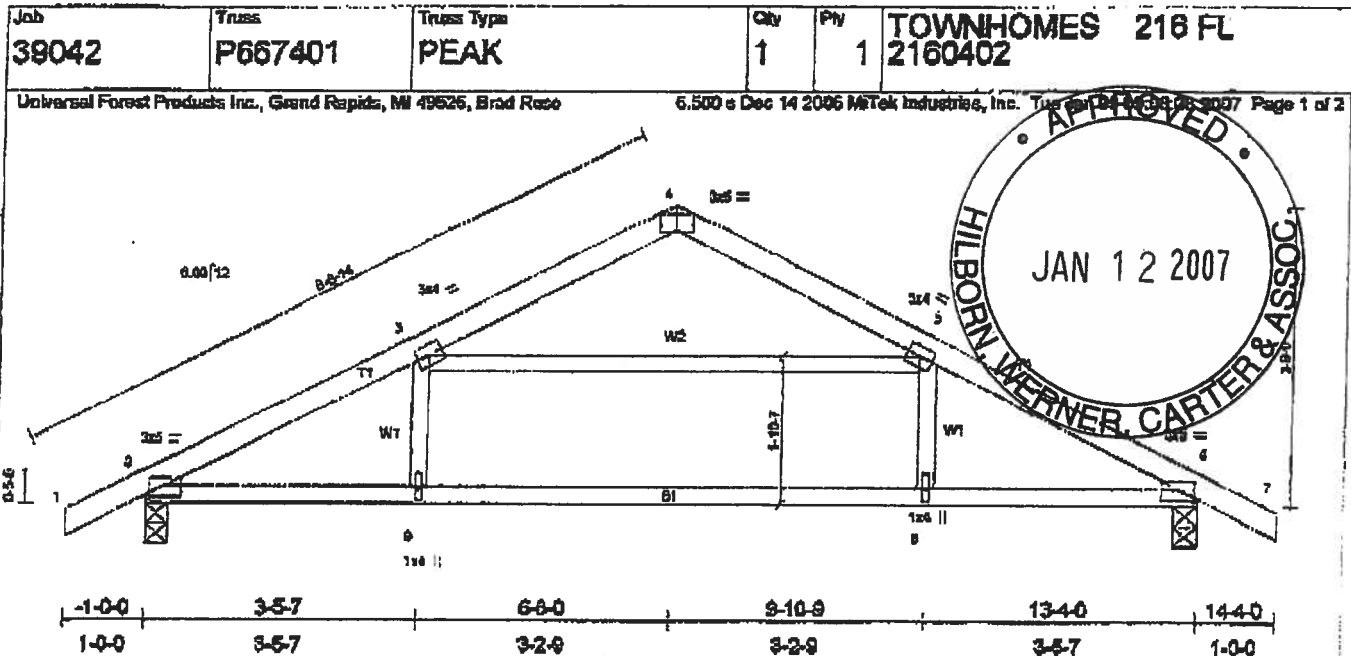
<u>CATEGORY</u>	<u>MANUFACTURER</u>	<u>DESCRIPTION</u>	<u>APPROVAL #</u>
SIDING FASCIA	VARIFORM, INC. JAMES HARDIE	VINYL SIDING HARDI-BOARD FASCIA	FL1606-R1 FL1889-R1

ROOFING

<u>CATEGORY</u>	<u>MANUFACTURER</u>	<u>DESCRIPTION</u>	<u>APPROVAL #</u>
SHINGLES FASTENERS	OWENS CORNING SENCO PRODUCTS	ASPHALT SHINGLES ROOFING NAIL	FL3663-R1 FL5135

STRUCTURAL

<u>CATEGORY</u>	<u>MANUFACTURER</u>	<u>DESCRIPTION</u>	<u>APPROVAL #</u>
STRAPPING TRUSS TIE-DOWN	UNITED STEEL PRODUCTS SIMPSON	UPLIFT STRAPS TRUSS TIE-DOWN	FL822 FL1423-R2



LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/def	l/d	PLATES	GRIP
TOLL (Ground Snow)=20.0	2-0-0	TC 0.30	Ver(LL)	-0.11	8-9	>989	240	MT20	187/144
TCIL	Plates Increase 1.15	BC 0.65	Ver(TL)	-0.23	8-9	>986	180		
BCIL	Lumber Increase 1.15	WB 0.60	Horz(TL)	0.02	5	n/a	n/a		
BCDL	Rep Stress Iner YES	(Matrix)							
	Code IBC2003/TP12002								
								Weight: 39 lb	

LUMBER
TOP CHORD 2 X 4 SPF No.2
BOT CHORD 2 X 3 SPF No.2
WEBS 2 X 3 SPF No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-4-7 oc bracing.

REACTIONS (R/size) 2=503/0-3-8, 8=503/0-3-8
 Max Horiz 2=122(LC 5)
 Max Uplift 2=581(LC 8), 8=581(LC 8)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/23, 2-3=-789/882, 3-4=-233/381, 4-5=-233/381, 5-6=-789/882, 6-7=0/23
BOT CHORD 2-9=602/537, 5-6=802/837, 6-8=602/537
WEBS 3-9=0/186, 5-6=0/186, 3-5=478/607

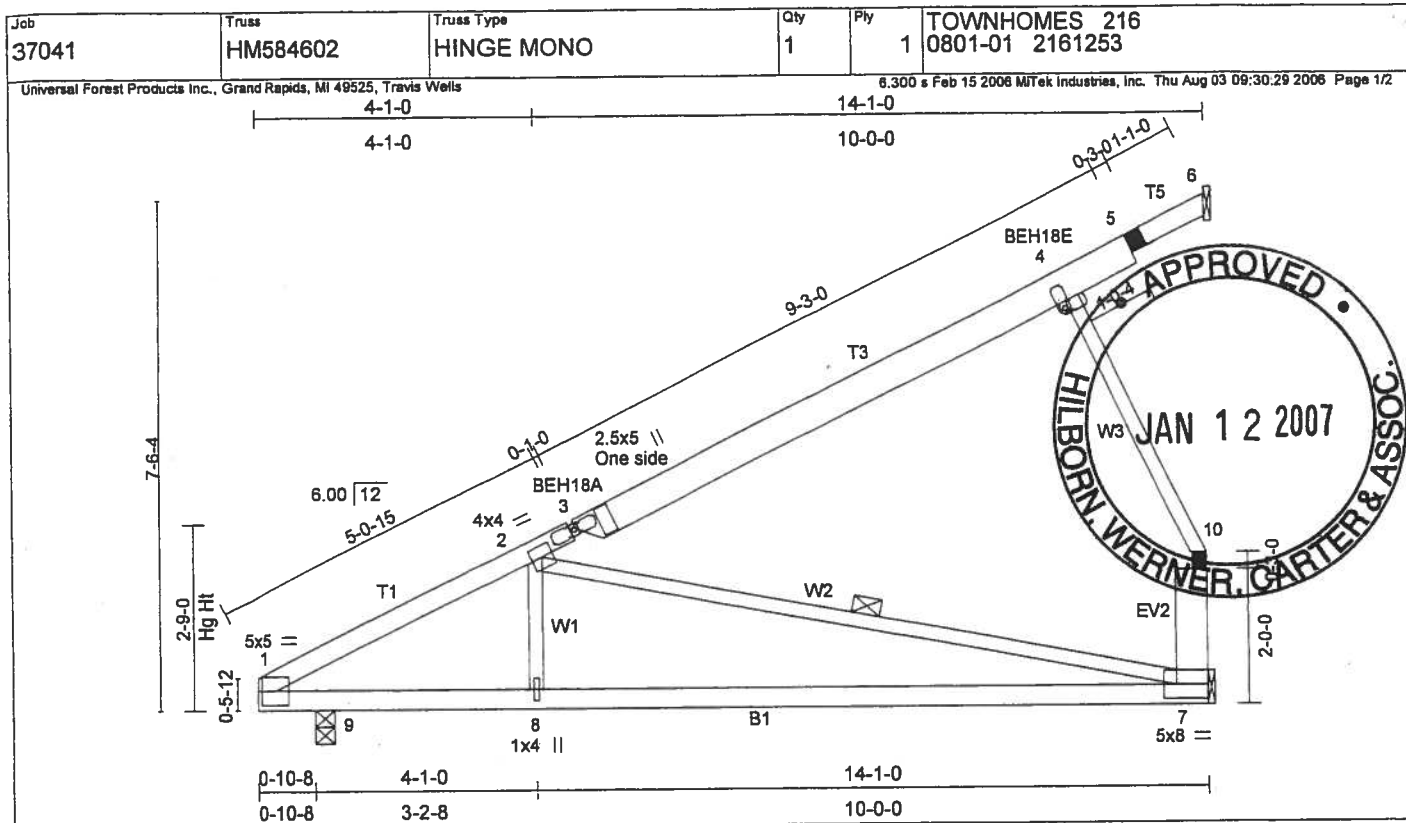
NOTES

- 1) Wind: ASCE 7-02; 130mph; h=30ft; TCIL=4.2psf; BCDL=4.2psf; Category II; Exp C; enclosed; MWFRS gable and zone and C-C Interior(2) zone; Lumber DOL=1.60 plate grip DOL=1.33. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) TOLL: ASCE 7-02; Pg=20.0 psf (ground snow); Ps=18.0 psf (roof snow); Category II; Exp C; Partially Exp.; Cf= 1; IBC 1607.11.2 minimum roof live load applied where required.
- 3) Roof design snow load has been reduced to account for slope.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 18.0 psf or 2.00 times flat roof load of 14.0 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed as per IBC Sect. 1605.3.1.1 Load reduction, for multiple live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 581 lb uplift at joint 2 and 581 lb uplift at joint 8.
- 8) This truss is designed in accordance with the 2003 International Building Code section 2305.1 and referenced standard ANSI/TP1 1.

1/9/07

WARNING - Verify design parameters and READ NOTES

This building component has only been designed for the loads noted on this drawing. Construction and lifting forces have not been considered. The builder is responsible for lifting methods and system design. Builder responsibilities are defined under section 2.2 of TP1-2003. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of components is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding erection, quality control, storage, delivery, erection and bracing, consult BCSI 1-03 from the Wood Truss Council of America and Truss Plate Institute Recommendation available from WTCIA, 6300 Enterprise LN, Madison, WI 53719. J:\support\Millwork\Supplies\platemakeup.doc (Copyright 2007 by Universal Forest Products, Inc.)



SPACING: 2-0-0	LOADING (psf)
TCLL	18.0
(Ground Snow=20.0)	
TCCL	7.0
BCLL	10.0
BCCL	7.0

SPACING: 1-4-0	LOADING (psf)
TCLL	27.0
(Ground Snow=30.0)	
TCCL	10.5
BCLL	15.0
BCCL	10.5

SPACING	2-0-0
Plates Increase	1.15
Lumber Increase	1.15
Rep Stress Incr	YES
Code	IBC2003/TPI2002

CSI	
TC	0.78
BC	0.95
WB	0.48

DEFL	in	(loc)	L/defl	L/d
Vert(LL)	-0.39	7-8	>392	240
Vert(TL)	-0.66	7-8	>235	180
Horz(TL)	-0.02	7	n/a	n/a

PLATES	GRIP
MT20	197/144
MII18	141/138

Weight: 56 lb

LUMBER
TOP CHORD 2 X 4 SPF No.2 *Except*
 T3 2 X 6 SPF No.2
BOT CHORD 2 X 4 SPF No.2
WEBS 2 X 3 SPF Stud *Except*
 W2 2 X 3 SPF No.2, EV2 2 X 6 SPF Stud

BRACING
TOP CHORD
BOT CHORD
WEBS
JOINTS

Structural wood sheathing directly applied or 5-10-4 oc purlins, except end verticals.
 Rigid ceiling directly applied.
 1 Row at midpt 2-7
 1 Brace at Jt(s): 10

REACTIONS (lb/size) 7=435/Mechanical, 8=0/Mechanical, 9=542/0-3-8
 Max Horiz 8=93(load case 8), 9=558(load case 8)
 Max Uplift 7=648(load case 8), 9=514(load case 8)
 Max Grav 7=463(load case 3), 9=577(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=780/453, 2-3=258/2, 3-4=259/81, 4-5=91/85, 5-6=52/93, 7-10=248/558
BOT CHORD 1-9=292/841, 8-9=945/805, 7-8=945/805
WEBS 2-8=27/308, 2-7=527/708, 4-10=270/813

REQUIRED FIELD JOINT CONNECTIONS - Maximum Compression (lb)/ Maximum Tension (lb)/ Maximum Shear (lb)/ Maximum Moment (lb-in)
 5=65/91/63/0, 10=270/813/255/0

NOTES

- 1) Wind: ASCE 7-02; 130mph @24in o.c.; h=30ft; TCCL=2.8psf; BCDL=2.8psf; Category II; Exp C; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; cantilever left exposed; Lumber DOL=1.60 plate grip DOL=1.33. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Wind: ASCE 7-02; 159mph @18in o.c.; h=30ft; TCCL=4.2psf; BCDL=4.2psf; Category II; Exp C; enclosed; MWFRS gable end and C-C Exterior(2) zone; cantilever left exposed; Lumber DOL=1.60 plate grip DOL=1.33. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 3) TCCL: ASCE 7-02; Pg=20.0 psf (ground snow); Ps=18.0 psf (roof snow); Category II; Exp C; Partially Exp.; Ct= 1; IBC 1607.11.2 minimum roof live load applied where required.
- 4) Roof design snow load has been reduced to account for slope.
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed as per IBC Sect. 1605.3.1.1 Load reduction, for multiple live loads.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) See BEH18 DETAILS for plate placement.
- 9) Provisions must be made to prevent lateral movement of hinged member(s) during transportation.
- 10) All additional member connections shall be provided by others for forces as indicated.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 648 lb uplift at joint 7 and 514 lb uplift at joint 9.
- 12) This truss is designed in accordance with the 2003 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 13) This truss has been designed to meet the 2003 IBC Section 2308.10.7.1; 2003 IRC R802.10.2
- 14) Based on HM584601. Revision: Increased KP gap.



WARNING - Verify design parameters and READ NOTES

This building component has only been designed for the loads noted on this drawing. Construction and lifting forces have not been considered. The builder is responsible for lifting methods and system design. Builder responsibilities are defined under section 2.3 of TPI1-2002. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult BCSI 1-03 from the Wood Truss Council of America and Truss Plate Institute Recommendation available from WTCA, 6300 Enterprise LN, Madison, WI 53719 J:\support\Mitek\Suppl\templates\wfp.tpe© copyright 2006 by: Universal Forest Products, Inc.

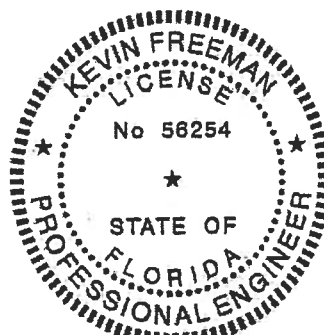


TR2.0

Job 37041	Truss HM584602	Truss Type HINGE MONO	Qty 1	Ply 1	TOWNHOMES 216 0801-01 2161253
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Universal Forest Products Inc., Grand Rapids, MI 49525, Travis Wells

6.300 s Feb 15 2006 Mitek Industries, Inc. Thu Aug 03 09:30:29 2006 Page 2/2



August 3, 2006



WARNING - Verify design parameters and READ NOTES

This building component has only been designed for the loads noted on this drawing. Construction and lifting forces have not been considered. The builder is responsible for lifting methods and system design. Builder responsibilities are defined under section 2.3 of TP11-2002. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult BCS1 1-03 from the Wood Truss Council of America and Truss Plate Institute Recommendation available from WTCA, 6300 Enterprise LN, Madison, WI 53719 J:\support\MitekSupp\templates\urfp.tpe© copyright 2006 by: Universal Forest Products, Inc.

Universal Forest Products, Inc. 2801 EAST BELTLINE RD, NE
PHONE (616)-384-6161 FAX (616)-365-0080 GRAND RAPIDS, MI 49505



TR 2.1



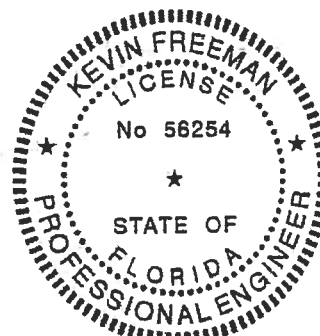
A circular professional engineer seal for the State of South Carolina. The outer ring contains the text "SOUTH CAROLINA" at the top and "REGISTERED PROFESSIONAL ENGINEER" around the bottom. In the center, the number "20654" is printed. Below the number, smaller text reads: "Endorsed by State Revenue Dept. on 01 August, 2004 VCCF77" and "Form Approved by State Inc.". The seal is signed with a black ink signature, "KEVIN W. PHELAN", across the bottom half.

TRLO

Job 37041	Truss HM584503	Truss Type HINGE MONO	Qty 1	Ply 1	TOWNHOMES 216 0801-01 2161253
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Universal Forest Products Inc., Grand Rapids, MI 49525, Travis Wells

6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Aug 03 09:30:18 2006 Page 2/2



August 3, 2006



WARNING - Verify design parameters and READ NOTES

This building component has only been designed for the loads noted on this drawing. Construction and lifting forces have not been considered. The builder is responsible for lifting methods and system design. Builder responsibilities are defined under section 2.3 of TPI1-2002. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult BCS1 1-03 from the Wood Truss Council of America and Truss Plate Institute Recommendation available from WTCA, 6300 Enterprise LN, Madison, WI 53719. J:\support\MitekSupptemplates\ufp.tpe© copyright 2006 by: Universal Forest Products, Inc.

Universal Forest Products, Inc. 2801 EAST BELTLINE RD, NE
PHONE (616)-364-6161 FAX (616)-365-0060 GRAND RAPIDS, MI 49505



TRI.1

COLUMBIA COUNTY OFFICE OF THE SHERIFF

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 15-4S-16-03024-006

Building permit No. 000025470

Use Classification MODULAR/UTILITY

Fire: 44.64

Permit Holder KEVIN BEDENBAUGH

Waste: 134.00

Owner of Building KENNETH & CONNIE CALLAHAN

Total: 178.64

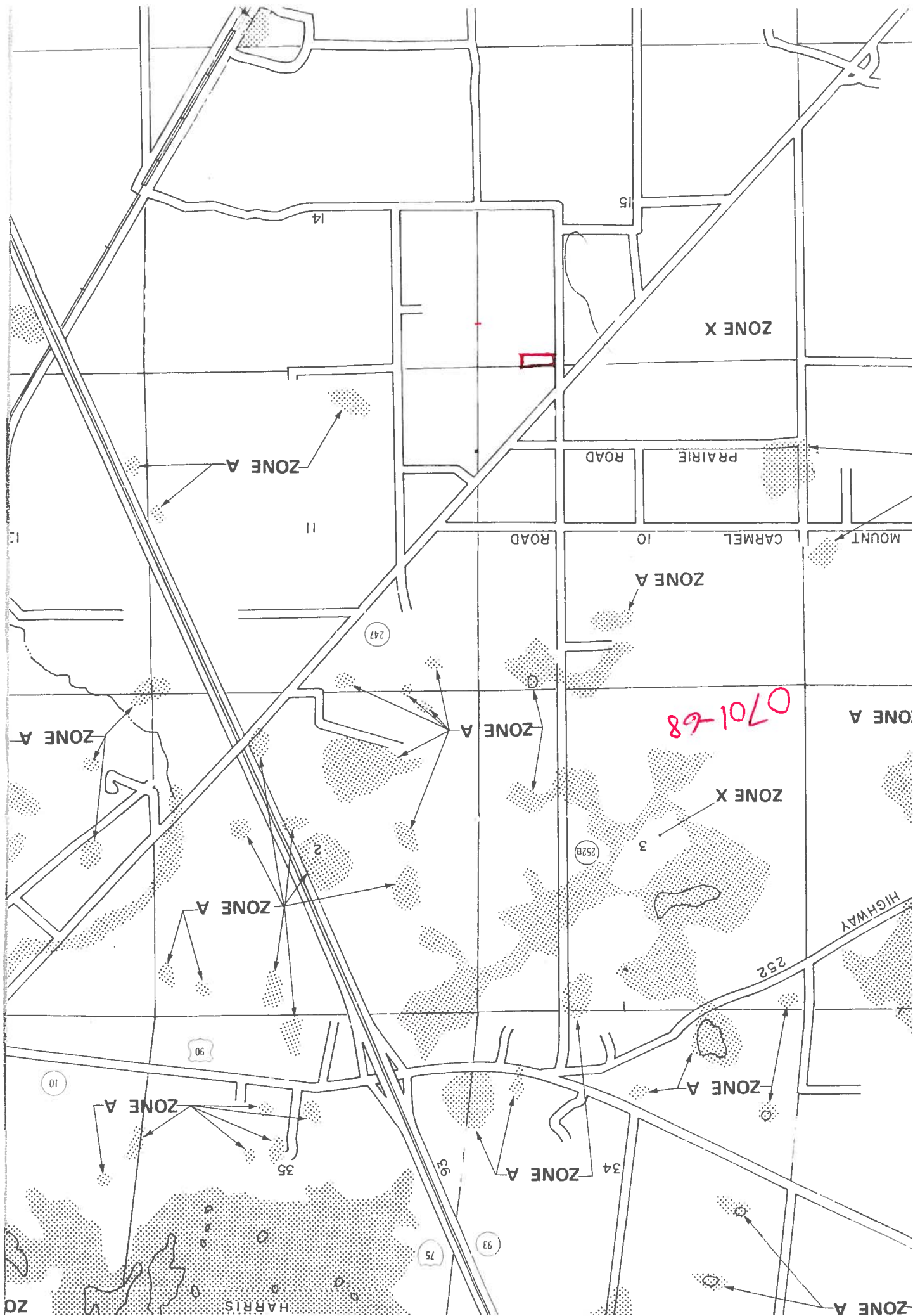
Location: 209 SW CALLAHAN AVE, LAKE CITY, FL

Date: 02/27/2007



Harry Hicks
Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)





ENGINEERING • INSPECTIONS
CERTIFICATIONS • TESTING

January 12, 2007

TownHomes, LLC
133 S.E. Newell Drive
Lake City, FL 32056

RE: Manufacturer: TownHomes
S/N Size & Occupancy TH-5FL 29'-0" X 66'-0", 15'-2" X 26'-8" R-3
HWC Plan#: 2198-0014F

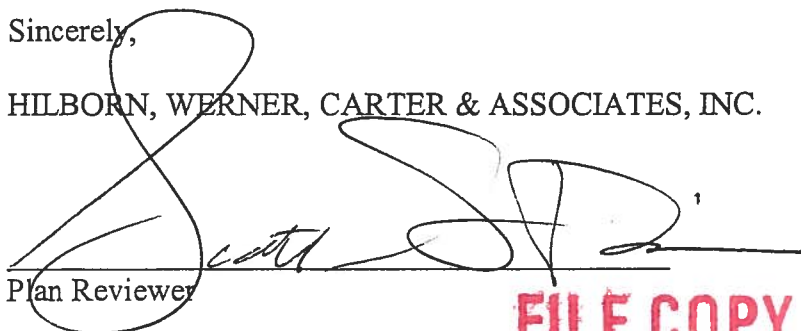
To Whom It May Concern:

This is to certify that the plans for the referenced manufactured building have been reviewed and approved as being in compliance with the 2004 Florida Codes and Standards, with 2006 supplement, as noted on the approved drawings, subject to the following limitations:

1. Approval covers factory-built structure only (Note: Any alterations to factory built structure on site voids state approval)
2. Items installed at the site are subject to review, approval, and inspection by the local authority having jurisdiction.
3. The Chapter 633 Plan Review and Inspection shall be conducted by the local fire safety inspector.
4. Signed and sealed plans shall be on file with HWC Engineering.
5. NOT approved for High Velocity Hurricane Zone (i.e. Broward and Dade Counties).

Sincerely,

HILBORN, WERNER, CARTER & ASSOCIATES, INC.


Plan Reviewer

FILE COPY

HILBORN, WERNER, CARTER AND ASSOCIATES, INC.

1627 SOUTH MYRTLE AVENUE CLEARWATER, FLORIDA 33756

(727) 584-8151

FAX: (727) 586-3343 / (727) 585-2392 / (727) 587-0447

Modular

Dapia

Inspection