

DATE 04/06/2006

Columbia County Building Permit

PERMIT
000024351

This Permit Expires One Year From the Date of Issue

APPLICANT HUGO ESCALANTE PHONE 288-8666
ADDRESS 6210 SW CR 18 FT. WHITE FL 32038
OWNER RALPH & CAROLYN NORRIS PHONE 752-5069
ADDRESS 319 SW RALPH TERRACE LAKE CITY FL 32024
CONTRACTOR HUGO ESCALANTE PHONE 288-8666
LOCATION OF PROPERTY 47S, TR ON 242, TL ON RALPH TERR, 100 YARDS ON LEFT

TYPE DEVELOPMENT DETACHED GARAGE ESTIMATED COST OF CONSTRUCTION 40000.00
HEATED FLOOR AREA 800.00 TOTAL AREA HEIGHT STORIES 1
FOUNDATION CONC WALLS FRAMED ROOF PITCH 7/12 FLOOR SLAB
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 DEVELOPMENT PERMIT NO.

PARCEL ID 28-4S-16-03220-011 SUBDIVISION
LOT BLOCK PHASE UNIT TOTAL ACRES

CRC1326967
Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor
EXISTING 06-0195-N BK JH N
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: ONE FOOT ABOVE THE ROAD, NOC ON FILE

Check # or Cash 4056

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

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

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

200.00

Revised 9-23-04

For Office Use Only Application # 0603-86 Date Received 3/23/06 By GP Permit # 24351
 Application Approved by - Zoning Official BWK Date 3.03.06 Plans Examiner OK JTH Date 4-3-06
 Flood Zone X Development Permit N/A Zoning A-3 Land Use Plan Map Category A-3
 Comments Accessory Use Section 4.5.6

Applicants Name Hugo Escalante Phone 386-288-8666
 Address 6210 S.W. CR 18, Fort White, FL 32038
 Owners Name Ralph & Carolyn Norris Phone 386-752-5069
 911 Address 319 S.W. Ralph Terrace, Lake City, FL 32024
 Contractors Name Hugo Escalante, (EWCPL INC) Phone 386-288-8666
 Address 6210 S.W. CR 18, Fort White, FL 32038
 Fee Simple Owner Name & Address N/A
 Bonding Co. Name & Address N/A
 Architect/Engineer Name & Address Mark Dosway, PE POB 868, Lake City, FL 32056
 Mortgage Lenders Name & Address N/A
 Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Energy
 Property ID Number 28-45-16-03220-011 Estimated Cost of Construction 40,000
 Subdivision Name None Lot Block Unit Phase
 Driving Directions 47 South, TR 242, 5 miles T/L on Ralph Terrace
led on left side, 100 yards.

Type of Construction Detached Garage Number of Existing Dwellings on Property 0
 Total Acreage 10 Lot Size 10 Acres Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive
 Actual Distance of Structure from Property Lines - Front 30' Side 200' Side 200' Rear 30'
 Total Building Height 14.5 Number of Stories 1 Heated Floor Area 560 Sq FT Roof Pitch 7-12
TOTAL 800

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 Agent (Including Contractor)

Contractor Signature

STATE OF FLORIDA
COUNTY OF COLUMBIA



LAURIE HODSON
MY COMMISSION # DD 33356
EXPIRES: June 28, 2008
Bonded Thru Notary Public Underwriters

Contractors License Number CRC1326967

Competency Card Number

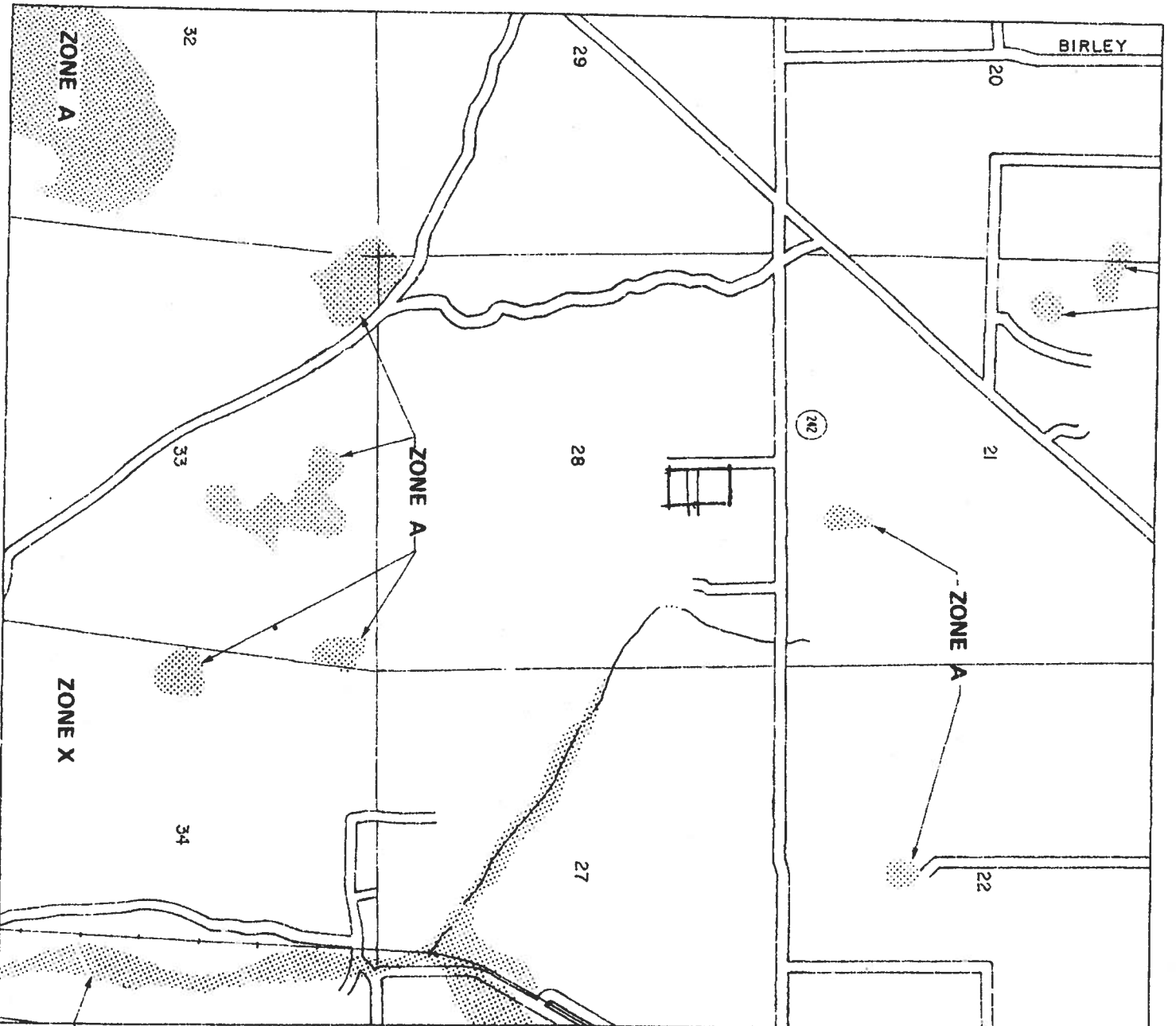
NOTARY STAMP/SEAL

Sworn to (or affirmed) and subscribed before me

this 23 day of March 20 06.

Personally known ✓ or Produced Identification

Notary Signature



APPROXIMATE SCALE IN FEET



NATIONAL FLOOD INSURANCE PROGRAM

FIRM FLOOD INSURANCE RATE MAP

COLUMBIA
COUNTY,
FLORIDA
(UNINCORPORATED AREAS)

PANEL 175 OF 290

PANEL LOCATION

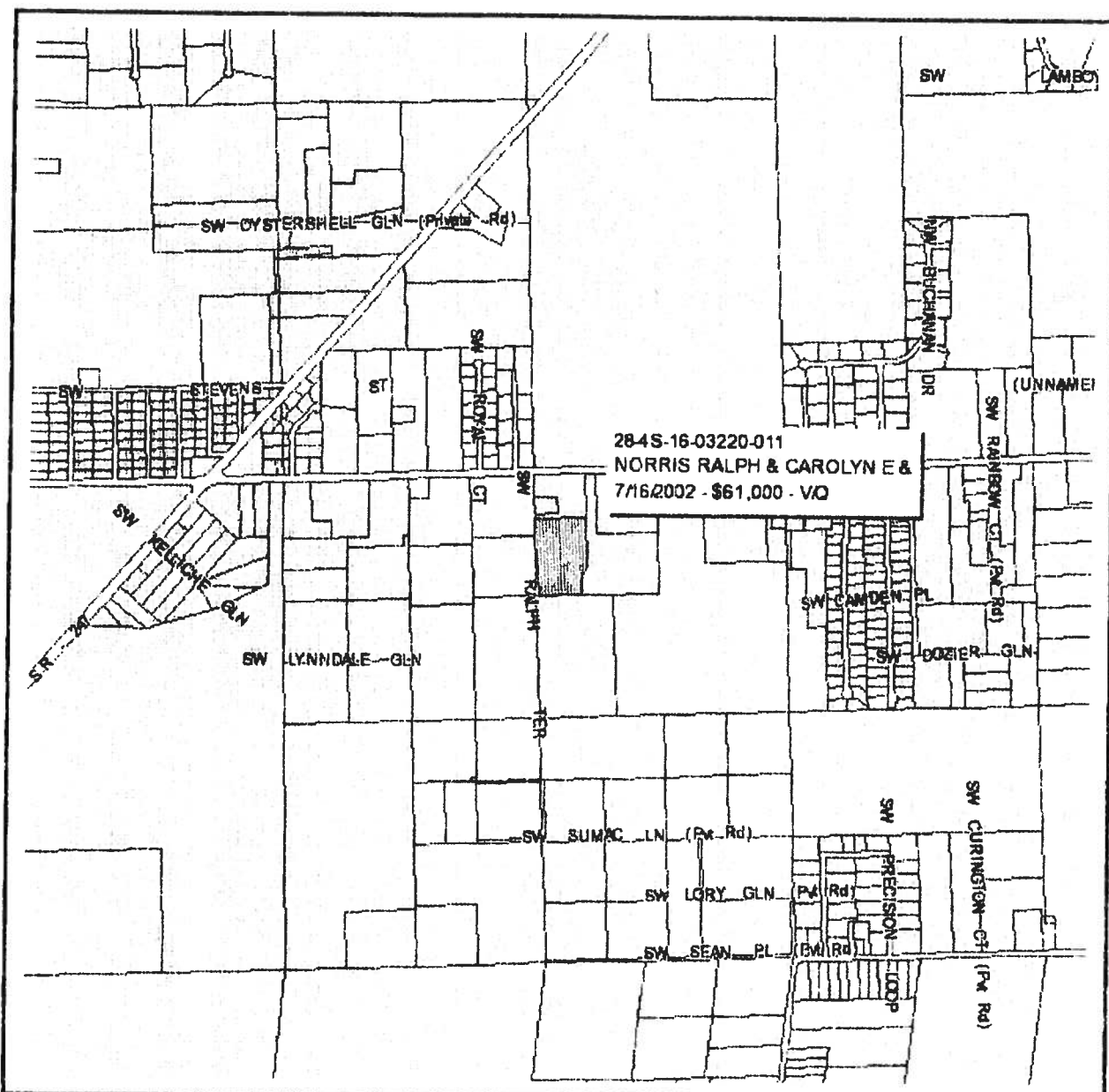


COMMUNITY-PANEL NUMBER
120070 0175 B
EFFECTIVE DATE:
JANUARY 6, 1988



Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using FIRM Version 1.0. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. Further information about National Flood Insurance Program flood hazard maps is available at: www.fema.gov/nifm



Columbia County Property Appraiser

J Doy'e Crews, CFA - Lake City, Florida - 386-758-1083

PARCEL: 28-4S-16-03220-011 - NO AG ACRE (009900)

COMM INTERS W LINE OF NW1/4 OF NE1/4 & S R/W CR-242, RUN S 466.74 FT
FOR POB RUN E

Name: NORRIS RALPH & CAROLYN E &	LandVal	\$76,440.00
Site:	BldgVal	\$0.00
FREDERICK W & DEBRA NORRIS	ApprVal	\$76,440.00
Mail: 3904 SW CR 242	JustVal	\$76,440.00
LAKE CITY, FL 32024	Assd	\$76,440.00
Sales Info	Exmpt	\$0.00
7/16/2002 \$61,000.00 V / Q	Taxable	\$76,440.00

0 0.1 0.2 0.3 mi



This information, GIS Map Updated: 2/7/2006, was derived from data which was compiled by the Columbia County Property Appraiser Office solely for the governmental purpose of property assessment. This information should not be relied upon by anyone as a determination of the ownership of property or market value. No warranties, expressed or implied, are provided for the accuracy of the data herein, it's use, or it's interpretation. Although it is periodically updated, this information may not reflect the data currently on file in the Property Appraiser's office. The assessed values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.

NOTICE OF COMMENCEMENT FORM
COLUMBIA COUNTY, FLORIDA

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

Tax Parcel ID Number 28-45-16-03220-011

1. Description of property: (legal description of the property and street address or 911 address)
Comm Inters W Line of NW 1/4 of NE 1/4 S R/W CR-342,
Runs S 466.74 Feet for POB, Run E
911 Address: 319 S.W. Ralph Lake City, FL 32024
2. General description of Improvement: New Single Family Dwelling and detached
garage
3. Owner Name & Address Ralph & Carolyn Morris, 3904 S.W. CR 342
Lake City, FL 32024 Interest in Property 100%
4. Name & Address of Fee Simple Owner (if other than owner): None
5. Contractor Name Hugo Escabante (EWAL INC) Phone Number 386-288-8666
Address 6210 S.W. CR 18, Ft White, FL 32038
6. Surety Holders Name None Phone Number _____
Address None
Amount of Bond None Inst: 2006007229 Date: 03/23/2006 Time: 10:17
J. A. DC, P. Dewitt Cason, Columbia County B: 1078 P: 816
7. Lender Name None
Address None
8. Persons within the State of Florida designated by the Owner upon whom notices or other documents may be served as provided by section 718.13 (1)(a) 7; Florida Statutes:
Name Hugo Escabante Phone Number 386-288-8666
Address 6210 S.W. CR 18, Fort White, FL 32038
9. In addition to himself/herself the owner designates Carolyn Morris of
Lake City, FL to receive a copy of the Lienor's Notice as provided in Section 713.13 (1) -
(a) 7. Phone Number of the designee 386-752-5069
10. Expiration date of the Notice of Commencement (the expiration date is 1 (one) year from the date of recording,
(Unless a different date is specified) _____

NOTICE AS PER CHAPTER 713, Florida Statutes:

The owner must sign the notice of commencement and no one else may be permitted to sign in his/her stead.

Ralph Morris
Signature of Owner

Carolyn Morris



Gloria A. Devereux
MY COMMISSION # DD110232 EXPIRES
April 26, 2006
BONDED THRU TROY FAIR INSURANCE, INC.

Sworn to (or affirmed) and subscribed before
day of MARCH 22, 2003

NOTARY STAMP/SEAL

Gloria A. Devereux

Signature of Notary
Notary - State of FL.

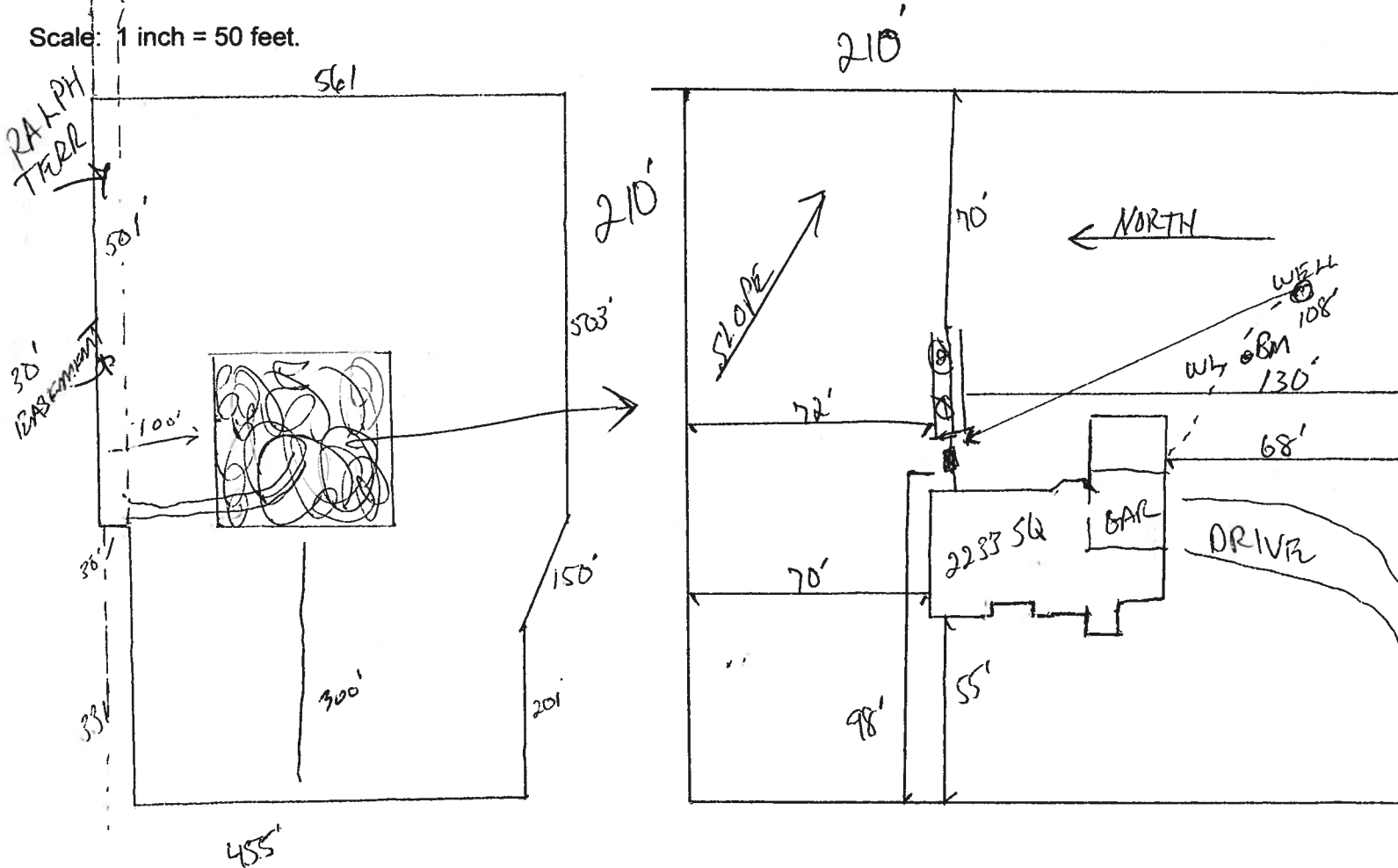
STATE OF FLORIDA
DEPARTMENT OF HEALTH
APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 06-019511

CR 242

PART II - SITEPLAN

Scale: 1 inch = 50 feet.



Notes: 1 of 10 ACRES

Site Plan submitted by: Rock D F

Plan Approved ☒

Not Approved ☐

By Ma A

Columbia

MASTER CONTRACTOR

Date 3/13/04

County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT


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02:00:39 PM 10/6/2004

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[View Messages](#)
[Change My PIN](#)
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Licensee Details

Licensee Information

Name: **ESCALANTE, HUGO (Primary Name)**
EWPL INC (DBA Name)
Main Address: **P.O. BOX 280**
FORT WHITE, Florida 32038

License Information

License Type: **Certified Residential Contractor**
Rank: **Cert Residential**
License Number: **CRC1326967**
Status: **Current, Active**
Licensure Date: **11/24/2003**
Expires: **08/31/2006**

Special Qualifications	Effective Date
Qualified Business License Required	11/24/2003


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Job L155885	Truss T01	Truss Type COMMON	Qty 19	Ply 1	0 0
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Mar 16 16:11:03 2006 Page 1		

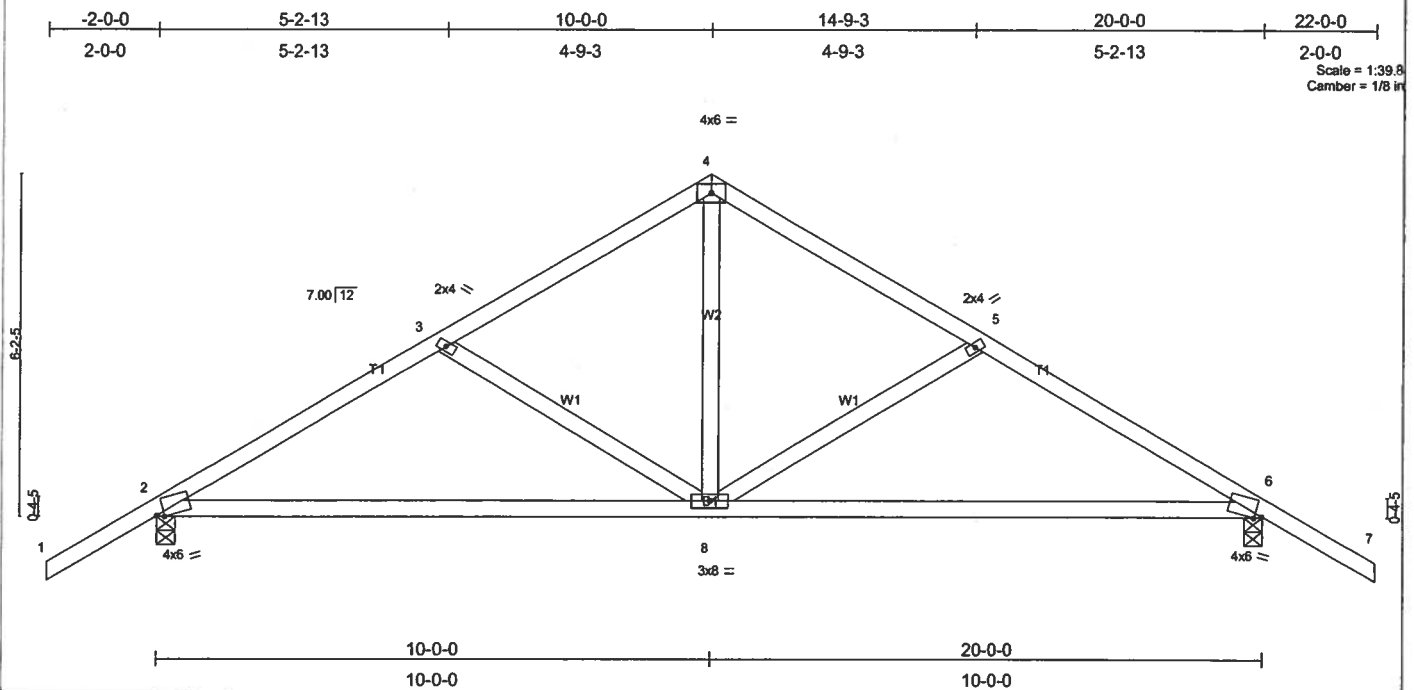


Plate Offsets (X,Y): [2-0-1-10,Edge], [6-0-1-10,Edge]									
LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/def	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.35	Vert(LL)	0.42	6-8	>568	240	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.54	Vert(TL)	0.34	6-8	>688	180		
BCLL 10.0	Lumber Increase 1.25	WB 0.49	Horz(TL)	0.03	6	n/a	n/a		
BCDL 5.0	Rep Stress Incr YES	(Matrix)							
	Code FBC2004/TPI2002								
								Weight: 96 lb	

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

BRACING
 TOP CHORD Structural wood sheathing directly applied or 5-5-7 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-5-2 oc bracing.

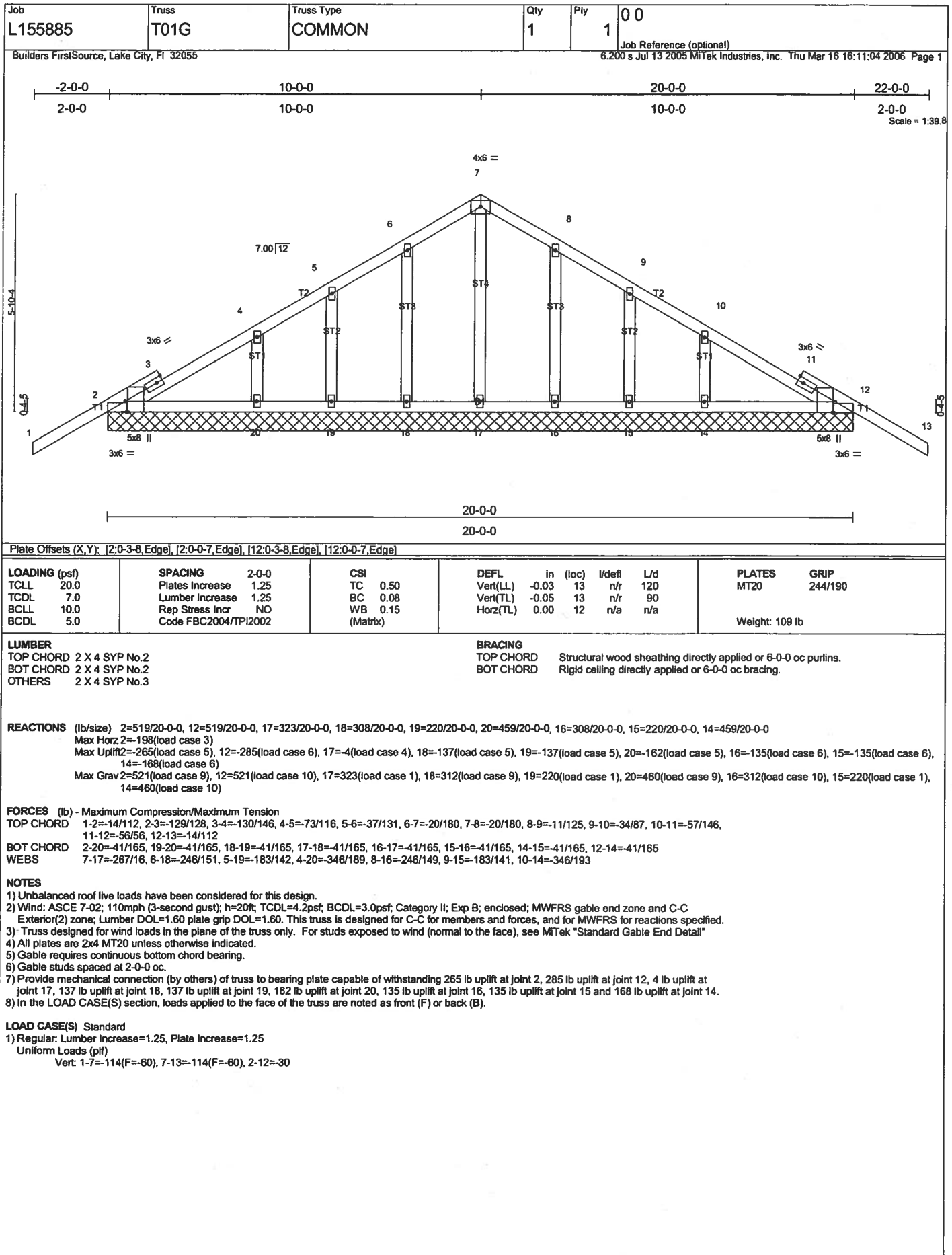
REACTIONS (lb/size) 2=943/0-4-0, 6=943/0-4-0
 Max Horz 2=210(load case 3)
 Max Uplift 2=639(load case 5), 6=639(load case 6)

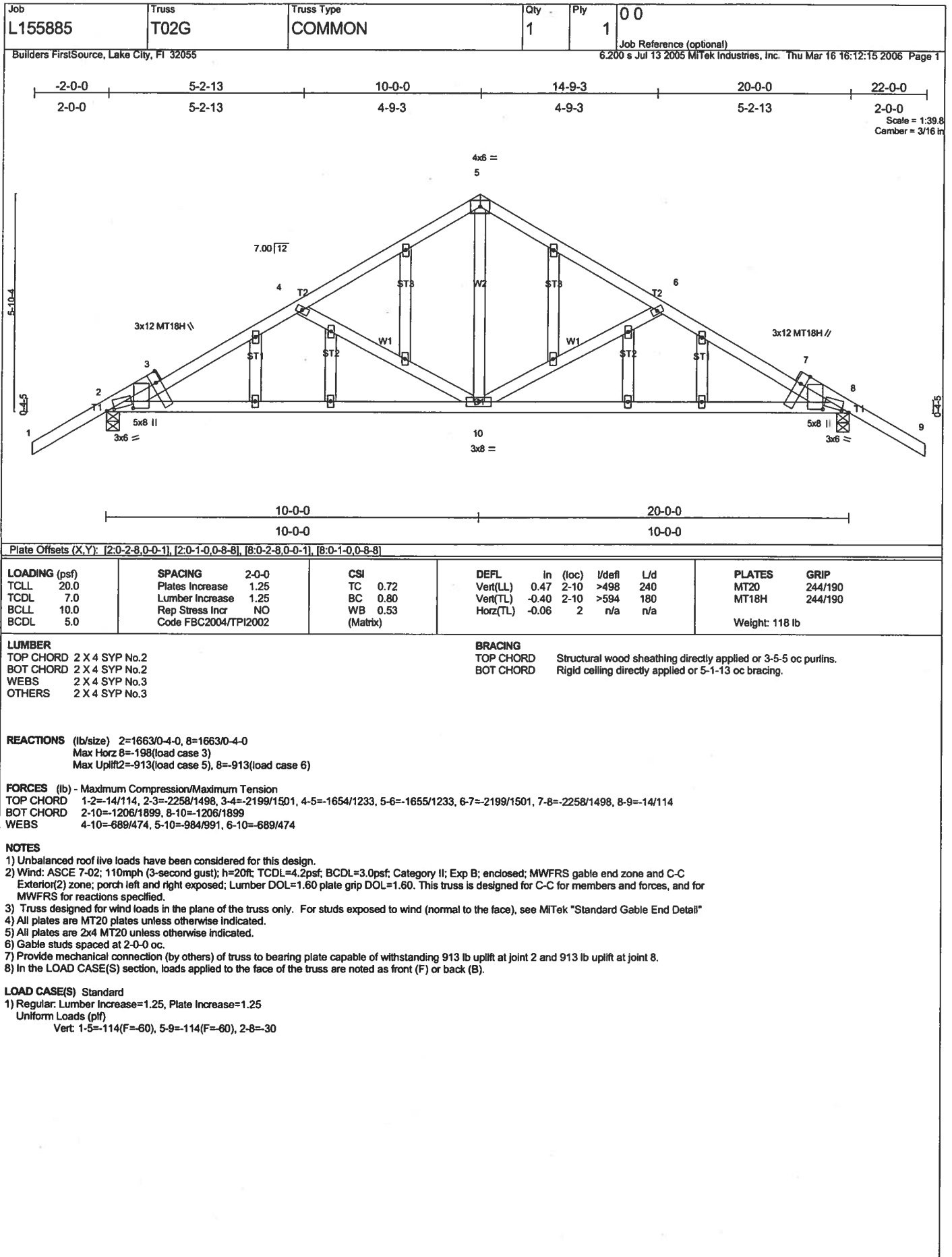
FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/54, 2-3=-1169/1079, 3-4=-920/973, 4-5=-920/973, 5-6=-1169/1079, 6-7=0/54
 BOT CHORD 2-8=-792/964, 6-8=-792/964
 WEBS 3-8=-288/275, 4-8=-816/604, 5-8=-288/275

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 639 lb uplift at joint 2 and 639 lb uplift at joint 6.

LOAD CASE(S) Standard



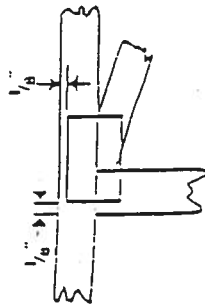


Symbols

PLATE LOCATION AND ORIENTATION



* Center plate on joint unless dimensions indicate otherwise. Dimensions are in inches. Apply plates to both sides of truss and securely seal.



* For 4 x 2 orientation, locate plates 1/8" from outside edge of truss and vertical web.

* This symbol indicates the required direction of slots in connector plates.



PLATE SIZE

4 x 4

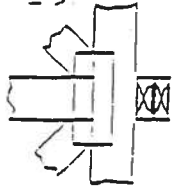
The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING



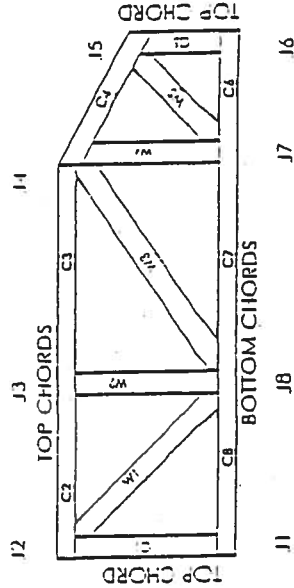
Indicates location of required continuous lateral bracing.

BEARING



Indicates location of joints at which bearings (supports) occur.

Numbering System



JOINTS AND CHORDS ARE NUMBERED CLOCKWISE AROUND THE TRUSS STARTING AT THE LOWEST JOINT FARTHEST TO THE LEFT.

WEBS ARE NUMBERED FROM LEFT TO RIGHT

CONNECTOR PLATE CODE APPROVALS

BOCA 96-31, 96-67

ICBO 3907, 4922

SBCCI 9667, 9432A

WISC/DIIR 960022-W, 970036-H

IER 561



MITel Engineering Reference Sheet: MIT-7473

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
2. Cut members to bear tightly against each other.
3. Place plates on each face of truss at each joint and embed fully. Avoid knots and wane at joint locations.
4. Unless otherwise noted, locate chord splices at 1/4 panel length (1/4 of panel length).
5. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
6. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
7. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
8. Plate type, size and location dimensions shown indicate minimum plating requirements.
9. Lumber shall be of the species and size, and in all respects, equal to or better than the grade specified.
10. Top chords must be sheathed or purlins provided at spacing shown on design.
11. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
12. Anchorage and / or load transferring connections to trusses are the responsibility of others unless shown.
13. Do not overload roof or floor trusses with stacks of construction materials.
14. Do not cut or alter truss member or plate without prior approval of a professional engineer.
15. Care should be exercised in handling, erection and installation of trusses.

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Notice of Treatment

12094

Applicator: Florida Pest Control & Chemical Co. (www.flapest.com)

Address: BAVA Ave

City Lake City

Phone 752-1703

Site Location: Subdivision _____

Lot # _____ Block# _____

Permit # 24351 + 24352

Address 319 sw Ralph terr

Product used

Active Ingredient

% Concentration

☐ Premise Imidacloprid 0.1%

☐ Termidor Fipronil 0.12%

☐ Bora-Care Disodium Octaborate Tetrahydrate 23.0%

Type treatment:

☐ Soil

☒ Wood

Area Treated

Square feet

Linear feet

Gallons Applied

Area Treated	Square feet	Linear feet	Gallons Applied
<u>Quelling</u>	<u>4457</u>	<u>1174</u>	<u>8</u>
<u>Detached Garage</u>			

As per Florida Building Code 104.2.6 – If soil chemical barrier method for termite prevention is used, final exterior treatment shall be completed prior to final building approval.

If this notice is for the final exterior treatment, initial this line _____

8/2/06

Date

1330

Time

F254

Print Technician's Name

Remarks: _____

Applicator - White

Permit File - Canary

Permit Holder - Pink

10/05

©

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs Residential Whole Building Performance Method A

Project Name:	602154NorrisRalph&CarolynGarage	Builder:	
Address:	SW CR 242	Permitting Office:	
City, State:	, FL	Permit Number:	
Owner:	Ralph & Carolyn Norris,	Jurisdiction Number:	
Climate Zone:	North		

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 18.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 13.00
4. Number of Bedrooms	1	b. N/A	
5. Is this a worst case?	Yes	c. N/A	
6. Conditioned floor area (ft²)	560 ft²		
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: 18.0 kBtu/hr
(or Single or Double DEFAULT) 7a. (Dble Default)	119.0 ft²		HSPF: 7.90
b. SHGC:		b. N/A	
(or Clear or Tint DEFAULT) 7b. (Clear)	119.0 ft²	c. N/A	
8. Floor types			
a. Slab-On-Grade Edge Insulation	R=0.0, 96.0(p) ft	14. Hot water systems	
b. N/A		a. Electric Resistance	Cap: 40.0 gallons
c. N/A			EF: 0.93
9. Wall types		b. N/A	
a. Frame, Wood, Exterior	R=13.0, 609.0 ft²	c. Conservation credits	
b. N/A		(HR-Heat recovery, Solar	
c. N/A		DHP-Dedicated heat pump)	
d. N/A		15. HVAC credits	
e. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
10. Ceiling types		HF-Whole house fan,	
a. Under Attic	R=30.0, 560.0 ft²	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: Interior	Sup. R=6.0, 40.0 ft		
b. N/A			

Glass/Floor Area: 0.21

Total as-built points: 8765

Total base points: 8825

PASS

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

PREPARED BY: Y Ben [Signature]

DATE: 3-31-06

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: SW CR 242, , FL,

PERMIT #:

BASE				AS-BUILT									
GLASS TYPES .18 X Conditioned X BSPM = Points Floor Area				Overhang Type/SC Ornt Len Hgt Area X SPM X SOF = Points									
.18	560.0	20.04	2020.0	Double, Clear	E	1.5	5.5	90.0	42.06	0.90	3392.9		
				Double, Clear	W	1.5	5.5	20.0	38.52	0.90	691.0		
				Double, Clear	W	1.5	3.5	9.0	38.52	0.78	269.9		
				As-Built Total: 119.0 4353.8									
WALL TYPES Area X BSPM = Points				Type R-Value Area X SPM = Points									
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior	13.0			609.0	1.50		913.5		
Exterior	609.0	1.70	1035.3										
Base Total:	609.0		1035.3	As-Built Total: 609.0 913.5									
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	4.10	164.0										
Base Total:	40.0		164.0	As-Built Total: 40.0 164.0									
CEILING TYPES Area X BSPM = Points				Type R-Value Area X SPM X SCM = Points									
Under Attic	560.0	1.73	968.8	Under Attic	30.0			560.0	1.73 X 1.00		968.8		
Base Total:	560.0		968.8	As-Built Total: 560.0 968.8									
FLOOR TYPES Area X BSPM = Points				Type R-Value Area X SPM = Points									
Slab	96.0(p)	-37.0	-3552.0	Slab-On-Grade Edge Insulation	0.0			96.0(p)	-41.20		-3955.2		
Raised	0.0	0.00	0.0										
Base Total:			-3552.0	As-Built Total: 96.0 -3955.2									
INFILTRATION Area X BSPM = Points				Area X SPM = Points									
	560.0	10.21	5717.6	560.0 10.21 5717.6									

SUMMER CALCULATIONS**Residential Whole Building Performance Method A - Details**ADDRESS: **SW CR 242, , FL,**

PERMIT #:

BASE				AS-BUILT						
Summer Base Points: 6353.7				Summer As-Built Points: 8162.5						
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
6353.7	0.4266		2710.5	<small>(sys 1: Central Unit 18000 btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS)</small> <small>8163 1.00 (1.09 x 1.147 x 0.91) 0.263 1.000 2438.1</small> 8162.5 1.00 1.138 0.263 1.000 2438.1						

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: SW CR 242, , FL,

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	560.0	12.74	1284.2	Double, Clear	E	1.5	5.5	90.0	18.79	1.04	1761.3
				Double, Clear	W	1.5	5.5	20.0	20.73	1.03	426.2
				Double, Clear	W	1.5	3.5	9.0	20.73	1.07	198.9
				As-Built Total:				119.0		2386.4	
WALL TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior	13.0		609.0	3.40	2070.6		
Exterior	609.0	3.70	2253.3								
Base Total:				As-Built Total:				609.0		2070.6	
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	8.40	336.0								
Base Total:				As-Built Total:				40.0		336.0	
CEILING TYPESArea X BWPM = Points				Type	R-Value		Area X WPM X WCM = Points				
Under Attic	560.0	2.05	1148.0	Under Attic	30.0		560.0	2.05 X 1.00	1148.0		
Base Total:				As-Built Total:				560.0		1148.0	
FLOOR TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Slab	96.0(p)	8.9	854.4	Slab-On-Grade Edge Insulation	0.0		96.0(p)	18.80	1804.8		
Raised	0.0	0.00	0.0								
Base Total:				As-Built Total:				96.0		1804.8	
INFILTRATION Area X BWPM = Points				Area X WPM = Points							
560.0 -0.59 -330.4				560.0 -0.59 -330.4							

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: SW CR 242, , FL,

PERMIT #:

BASE				AS-BUILT									
Winter Base Points: 5545.5				Winter As-Built Points: 7415.4									
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
5545.5		0.6274	3479.2	(sys 1: Electric Heat Pump 18000 btuh ,EFF(7.9) Ducts:Unc(S),Unc(R),Int(AH),R6.0 7415.4 1.000 (1.069 x 1.169 x 0.93) 0.432 1.000 3720.0 7415.4 1.00 1.162 0.432 1.000 3720.0									

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: SW CR 242, , FL,

PERMIT #:

BASE					AS-BUILT					
WATER HEATING										
Number of Bedrooms	X	Multiplier	=	Total	Tank Volume	EF	Number of Bedrooms	X	Tank X Ratio	Credit X Multiplier = Total Multiplier
1		2635.00		2635.0	40.0	0.93	1		1.00	2606.67
					As-Built Total:					2606.7

CODE COMPLIANCE STATUS									
BASE					AS-BUILT				
Cooling Points	+	Heating Points	+	Hot Water Points = Total Points	Cooling Points	+	Heating Points	+	Hot Water Points = Total Points
2711		3479		2635	8825		2438		3720
									2607
									8765

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: SW CR 242, , FL,

PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 83.3

The higher the score, the more efficient the home.

Ralph & Carolyn Norris,, SW CR 242, , FL,

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 18.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 13.00
4. Number of Bedrooms	1	b. N/A	
5. Is this a worst case?	Yes	c. N/A	
6. Conditioned floor area (ft ²)	560 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: 18.0 kBtu/hr
(or Single or Double DEFAULT)	7a. (Dble Default) 119.0 ft ²		HSPF: 7.90
b. SHGC:		b. N/A	
(or Clear or Tint DEFAULT)	7b. (Clear) 119.0 ft ²	c. N/A	
8. Floor types		14. Hot water systems	
a. Slab-On-Grade Edge Insulation	R=0.0, 96.0(p) ft	a. Electric Resistance	Cap: 40.0 gallons
b. N/A			EF: 0.93
c. N/A		b. N/A	
9. Wall types		c. Conservation credits	
a. Frame, Wood, Exterior	R=13.0, 609.0 ft ²	(HR-Heat recovery, Solar	
b. N/A		DHP-Dedicated heat pump)	
c. N/A		15. HVAC credits	
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, 560.0 ft ²	MZ-C-Multizone cooling,	
b. N/A		MZ-H-Multizone heating)	
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 40.0 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.*

¹ Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.
EnergyGauge® (Version: FLR2PB v4.1)

Residential System Sizing Calculation

Summary

Ralph & Carolyn Norris,
SW CR 242
, FL

Project Title:
602154NorrisRalph&CarolynGarage

Class 3 Rating
Registration No. 0
Climate: North

0603-85

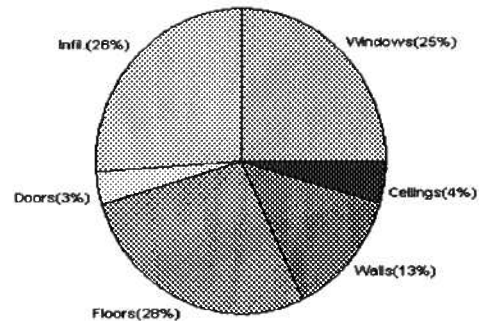
3/31/2006

Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)			
Winter design temperature	33 F	Summer design temperature	92 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	37 F	Summer temperature difference	17 F
Total heating load calculation	15101 Btuh	Total cooling load calculation	12950 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	119.2 18000	Sensible (SHR = 0.75)	125.9 13500
Heat Pump + Auxiliary(0.0kW)	119.2 18000	Latent	202.0 4500
		Total (Electric Heat Pump)	139.0 18000

WINTER CALCULATIONS

Winter Heating Load (for 560 sqft)

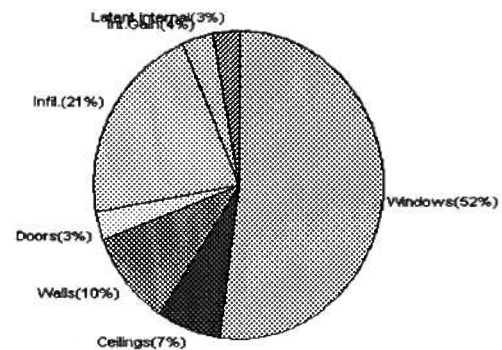
Load component		Load	
Window total	119 sqft	3831	Btuh
Wall total	609 sqft	2000	Btuh
Door total	40 sqft	518	Btuh
Ceiling total	560 sqft	660	Btuh
Floor total	96 sqft	4191	Btuh
Infiltration	96 cfm	3902	Btuh
Duct loss		0	Btuh
Subtotal		15101	Btuh
Ventilation	0 cfm	0	Btuh
TOTAL HEAT LOSS		15101	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 560 sqft)

Load component		Load	
Window total	119 sqft	6741	Btuh
Wall total	609 sqft	1270	Btuh
Door total	40 sqft	392	Btuh
Ceiling total	560 sqft	927	Btuh
Floor total		0	Btuh
Infiltration	50 cfm	931	Btuh
Internal gain		460	Btuh
Duct gain		0	Btuh
Sens. Ventilation	0 cfm	0	Btuh
Total sensible gain		10722	Btuh
Latent gain(ducts)		0	Btuh
Latent gain(infiltration)		1828	Btuh
Latent gain(ventilation)		0	Btuh
Latent gain(internal/occupants/other)		400	Btuh
Total latent gain		2228	Btuh
TOTAL HEAT GAIN		12950	Btuh



For Florida residences only

EnergyGauge® System Sizing

PREPARED BY: *Y3en*

DATE: *3-31-06*

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Ralph & Carolyn Norris,
SW CR 242
, FL

Project Title:
602154NorrisRalph&CarolynGarage

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F
This calculation is for Worst Case. The house has been rotated 315 degrees.

3/31/2006

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	90.0		32.2	2897 Btuh
2	2, Clear, Metal, 0.87	SE	20.0		32.2	644 Btuh
3	2, Clear, Metal, 0.87	SE	9.0		32.2	290 Btuh
Window Total			119(sqft)			3831 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	609		3.3	2000 Btuh
Wall Total			609			2000 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Exterior		40		12.9	518 Btuh
Door Total			40			518 Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	560		1.2	660 Btuh
Ceiling Total			560			660 Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	96.0 ft(p)		43.7	4191 Btuh
Floor Total			96			4191 Btuh
Zone Envelope Subtotal:						11200 Btuh
Infiltration	Type	ACH	X	Zone Volume	CFM=	
	Natural	1.29		4480	96.3	3902 Btuh
Ductload	Average sealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)					0 Btuh
Zone #1	Sensible Zone Subtotal					15101 Btuh

WHOLE HOUSE TOTALS

	Subtotal Sensible	15101 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	15101 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Ralph & Carolyn Norris,
SW CR 242
, FL

Project Title:
602154NorrisRalph&CarolynGarage

Class 3 Rating
Registration No. 0
Climate: North

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)

Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)



For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Ralph & Carolyn Norris,
SW CR 242
, FL

Project Title:
602154NorrisRalph&CarolynGarage

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F
This calculation is for Worst Case. The house has been rotated 315 degrees.

3/31/2006

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	90.0		32.2	2897 Btuh
2	2, Clear, Metal, 0.87	SE	20.0		32.2	644 Btuh
3	2, Clear, Metal, 0.87	SE	9.0		32.2	290 Btuh
Window Total			119(sqft)			3831 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	609		3.3	2000 Btuh
Wall Total			609			2000 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Exterior		40		12.9	518 Btuh
Door Total			40			518Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	560		1.2	660 Btuh
Ceiling Total			560			660Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	96.0 ft(p)		43.7	4191 Btuh
Floor Total			96			4191 Btuh
Zone Envelope Subtotal:						11200 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=		
	Natural	1.29	4480	96.3		3902 Btuh
Ductload	Average sealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)					0 Btuh
Zone #1	Sensible Zone Subtotal					15101 Btuh

WHOLE HOUSE TOTALS

	Subtotal Sensible	15101 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	15101 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Ralph & Carolyn Norris,
SW CR 242
, FL

Project Title:
602154NorrisRalph&CarolynGarage

Class 3 Rating
Registration No. 0
Climate: North



Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)

Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)

For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Ralph & Carolyn Norris,
SW CR 242
, FL

Project Title:
602154NorrisRalph&CarolynGarage

Class 3 Rating
Registration No. 0
Climate: North

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

3/31/2006

Component Loads for Whole House

Window	Type*		Overhang		Window Area(sqft)			HTM		Load
	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded	
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	90.0	0.0	90.0	29	60	5403 Btuh
2	2, Clear, 0.87, None,N,N	SE	1.5ft.	5.5ft.	20.0	8.1	11.9	29	63	979 Btuh
3	2, Clear, 0.87, None,N,N	SE	1.5ft.	3.5ft.	9.0	6.1	2.9	29	63	359 Btuh
Window Total					119 (sqft)					6741 Btuh
Walls	Type	R-Value/U-Value		Area(sqft)			HTM		Load	
1	Frame - Wood - Ext	13.0/0.09		609.0			2.1		1270 Btuh	
Wall Total				609 (sqft)					1270 Btuh	
Doors	Type				Area (sqft)		HTM		Load	
1	Insulated - Exterior				40.0		9.8		392 Btuh	
Door Total				40 (sqft)				392 Btuh		
Ceilings	Type/Color/Surface	R-Value		Area(sqft)			HTM		Load	
1	Vented Attic/DarkShingle	30.0		560.0			1.7		927 Btuh	
Ceiling Total				560 (sqft)					927 Btuh	
Floors	Type	R-Value		Size			HTM		Load	
1	Slab On Grade	0.0		96 (ft(p))			0.0		0 Btuh	
Floor Total				96.0 (sqft)					0 Btuh	
	Zone Envelope Subtotal:								9331 Btuh	
Infiltration	Type	ACH		Volume(cuft)			CFM=		Load	
	SensibleNatural	0.67		4480			50.0		931 Btuh	
Internal gain	Occupants		Btuh/occupant			Appliance		Load		
	2		X 230 +			0		460 Btuh		
Duct load	Average sealed, R6.0, Supply(Attic), Return(Attic)							DGM = 0.00		0.0 Btuh
	Sensible Zone Load								10722 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Ralph & Carolyn Norris,
SW CR 242
, FL

Project Title:
602154NorrisRalph&CarolynGarage

Class 3 Rating
Registration No. 0
Climate: North

3/31/2006

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	10722 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	10722 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	10722 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	1828 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (2 people @ 200 Btuh per person)	400 Btuh
	Latent other gain	0 Btuh
	Latent total gain	2228 Btuh
	TOTAL GAIN	12950 Btuh

*Key: Window types (Pn - Number of panes of glass)
(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(U - Window U-Factor or 'DEF' for default)
(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))
(ExSh - Exterior shading device: none(N) or numerical value)
(BS - Insect screen: none(N), Full(F) or Half(H))
(Ornt - compass orientation)



For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Ralph & Carolyn Norris,
SW CR 242
, FL

Project Title:
602154NorrisRalph&CarolynGarage

Class 3 Rating
Registration No. 0
Climate: North

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

3/31/2006

Component Loads for Zone #1: Main

Window	Type*	Ornt	Overhang		Window Area(sqft)			HTM		Load
	Pn/SHGC/U/InSh/ExSh/IS		Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded	
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	90.0	0.0	90.0	29	60	5403 Btuh
2	2, Clear, 0.87, None,N,N	SE	1.5ft.	5.5ft.	20.0	8.1	11.9	29	63	979 Btuh
3	2, Clear, 0.87, None,N,N	SE	1.5ft.	3.5ft.	9.0	6.1	2.9	29	63	359 Btuh
Window Total					119 (sqft)					6741 Btuh
Walls	Type	R-Value/U-Value		Area(sqft)			HTM		Load	
	1	Frame - Wood - Ext	13.0/0.09		609.0			2.1		
Wall Total					609 (sqft)					1270 Btuh
Doors	Type				Area (sqft)		HTM		Load	
	1	Insulated - Exterior				40.0		9.8		
Door Total						40 (sqft)				392 Btuh
Ceilings	Type/Color/Surface	R-Value		Area(sqft)			HTM		Load	
	1	Vented Attic/DarkShingle	30.0		560.0			1.7		
Ceiling Total						560 (sqft)			927 Btuh	
Floors	Type	R-Value		Size			HTM		Load	
	1	Slab On Grade	0.0		96 (ft(p))			0.0		
Floor Total						96.0 (sqft)			0 Btuh	
			Zone Envelope Subtotal:							9331 Btuh
Infiltration	Type	ACH		Volume(cuft)			CFM=		Load	
	SensibleNatural	0.67		4480			50.0			
Internal gain	Occupants		Btuh/occupant			Appliance		Load		
	2		X 230 +			0				
Duct load	Average sealed, R6.0, Supply(Attic), Return(Attic)							DGM = 0.00		0.0 Btuh
			Sensible Zone Load							10722 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Ralph & Carolyn Norris,
SW CR 242
, FL

Project Title:
602154NorrisRalph&CarolynGarage

Class 3 Rating
Registration No. 0
Climate: North

3/31/2006

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	10722 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	10722 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	10722 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	1828 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (2 people @ 200 Btuh per person)	400 Btuh
	Latent other gain	0 Btuh
	Latent total gain	2228 Btuh
	TOTAL GAIN	12950 Btuh

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

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

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

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

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

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

(Ornt - compass orientation)



For Florida residences only

Residential Window Diversity

MidSummer

Ralph & Carolyn Norris,
SW CR 242
, FL

Project Title:
602154NorrisRalph&CarolynGarage

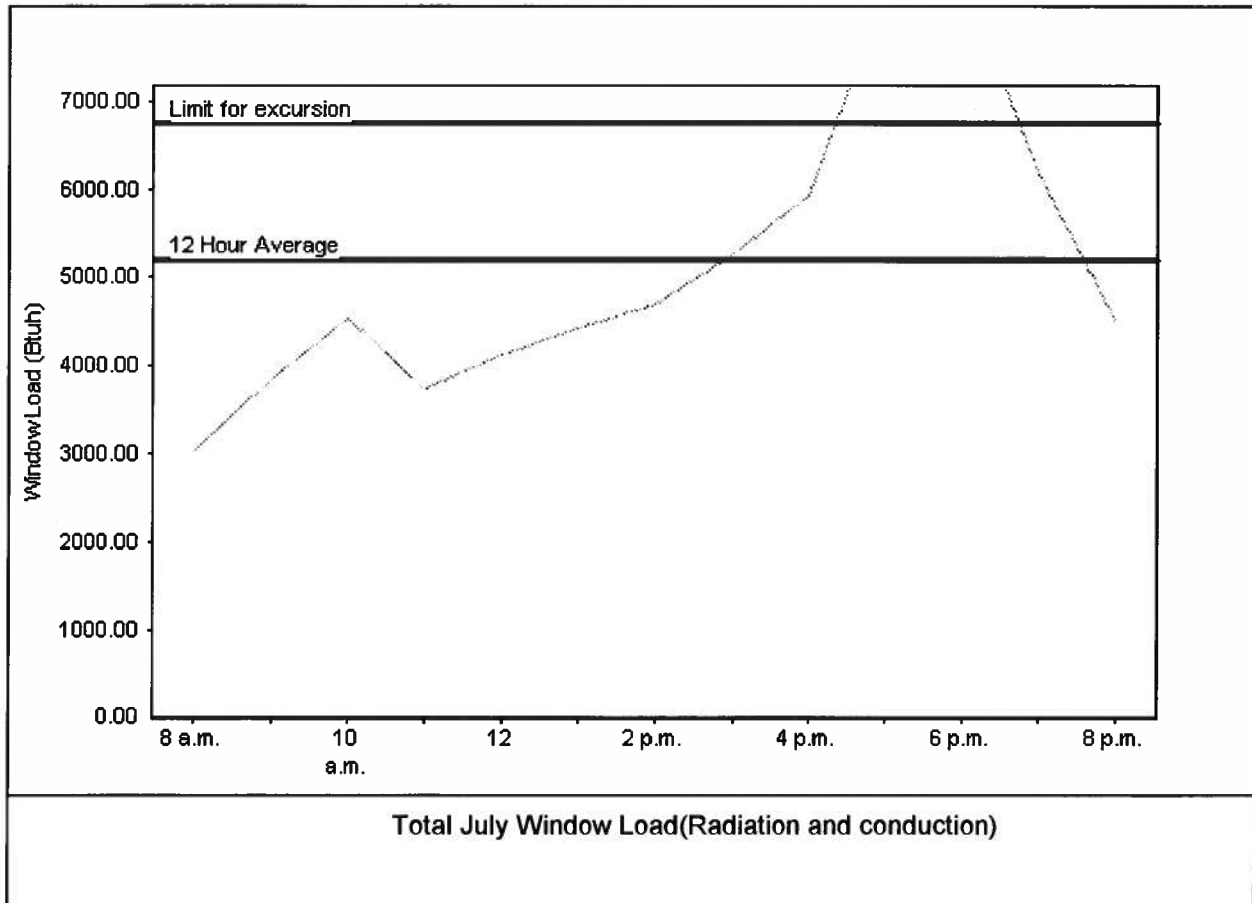
Class 3 Rating
Registration No. 0
Climate: North

3/31/2006

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	5187 Btuh
Summer setpoint	75 F	Peak window load for July	8277 Btuh
Summer temperature difference	17 F	Excursion limit(130% of Ave.)	6743 Btuh
Latitude	29 North	Window excursion (July)	1534 Btuh

WINDOW Average and Peak Loads



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

EnergyGauge® System Sizing for Florida residences only

PREPARED BY: *Ben Gardner*

DATE: *3-31-06*



EnergyGauge® FLR2PB v4.1