DATE 11/29/2005

Columbia County Building Permit

This Permit Expires One Year From the Date of Issue

PERMIT 000023907

APPLICANT ANTHONY MIKULIC PHONE 708-642-4772

ADDRESS 364 SW PINE RIDGE CT LAKE CITY FL 32024

OWNER ANTHONY & CARMEN MIKULIC PHONE 708-642-4772

ADDRESS 364 SW PINE RIDGE CT LAKE CITY FL 32024

CONTRACTOR OWNER BUILDER PHONE

LOCATION OF PROPERTY 247 S, L 240, L PINE RIDGE COURT, 2ND LOT ON LEFT

TYPE DEVELOPMENT SFD,UTILITY ESTIMATED COST OF CONSTRUCTION 101500.00

HEATED FLOOR AREA 2030.00 TOTAL AREA 3022.00 HEIGHT 20.00 STORIES 1

FOUNDATION CONCRETE WALLS FRAMED ROOF PITCH 3/12 FLOOR SLAB

LAND USE & ZONING A-3 MAX. HEIGHT 35

Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00

NO. EX.D.U. 0 FLOOD ZONE X DEVELOPMENT PERMIT NO.

PARCEL ID 12-5S-15-00447-202 SUBDIVISION PINE RIDGE ACRES

LOT 2 BLOCK PHASE UNIT TOTAL ACRES 10.40

Culvert Permit No.	Culvert Waiver	Contractor's License Number	L Anthony MJ Mikulic	Applicant/Owner/Contractor
EXISTING	05-1071-N	BK	JH	Y
Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident

COMMENTS: FLOOR ONE FOOT ABOVE THE ROAD, NOC ON FILE, DISCLOSURE STATEMENT REC'D

Check # or Cash 2211

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power date/app. by Foundation date/app. by Monolithic date/app. by

Under slab rough-in plumbing date/app. by Slab date/app. by Sheathing/Nailing date/app. by

Framing date/app. by Rough-in plumbing above slab and below wood floor date/app. by

Electrical rough-in date/app. by Heat & Air Duct date/app. by Peri. beam (Lintel) date/app. by

Permanent power date/app. by C.O. Final date/app. by Culvert date/app. by

M/H tie downs, blocking, electricity and plumbing date/app. by Pool date/app. by

Reconnection date/app. by Pump pole date/app. by Utility Pole date/app. by

M/H Pole date/app. by Travel Trailer date/app. by Re-roof date/app. by

BUILDING PERMIT FEE $ 510.00 CERTIFICATION FEE $ 15.11 SURCHARGE FEE $ 15.11

MISC. FEES $ .00 ZONING CERT. FEE $ 50.00 FIRE FEE $ .00 WASTE FEE $

FLOOD DEVELOPMENT FEE $ FLOOD ZONE FEE $ 25.00 CULVERT FEE $ **TOTAL FEE** 615.22

INSPECTORS OFFICE L. Hall CLERKS OFFICE CH

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.

Mikulic owner-builder

Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only Application # 0511-39 Date Received 11/9 By JW Permit # 23907

Application Approved by - Zoning Official BLK Date 15.11.05 Plans Examiner OK JH Date 11-28-05

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

Comments

Applicants Name Linda Roder Phone 386-752-2281

Address 387 S.W. Kemp Ct. Lake City FL 32024

Owners Name Anthony & Carmen Mikulic Phone 708-642-4772

911 Address 364 S.W. Pine Ridge Ct. Lake City FL 32024

Contractors Name Anthony Mikulic owner builder Phone 708-642-4772

Address 16900 Parker Road, Homerglen, IL 60491

Fee Simple Owner Name & Address NA

Bonding Co. Name & Address NA

Architect/Engineer Name & Address Americh link / Mark Disosway

Mortgage Lenders Name & Address NA

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

Property ID Number 12-5S-15-00447-202 Estimated Cost of Construction 97,000

Subdivision Name Pine Ridge Acres Lot 2 Block ___ Unit ___ Phase ___

Driving Directions 247 S. to 240, go L 1 mile to Pine Ridge Ct. go L 100' - 2nd lot on left.

Type of Construction SFD Number of Existing Dwellings on Property 0

Total Acreage 10.40 Lot Size 10.40 Do you need a - Culvert Permit or Culvert Waiver or (Have an Existing Drive)

Actual Distance of Structure from Property Lines - Front 45' Side 139.65' Side 139.65' Rear 1217' +

Total Building Height 20' Number of Stories 1 Heated Floor Area 2030 Roof Pitch 3-12, 10-12

Porch 316 GARAGE 676 TOTAL 3022

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

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

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

X Carmen Mikulic Anthony M Mikulic

Owner Builder or Agent (including Contractor)

STATE OF FLORIDA
COUNTY OF COLUMBIA

Linda R. Roder
Commission #DD303275
Expires: Mar 24, 2008
Bonded Thru
Atlantic Bonding Co., Inc.

Sworn to (or affirmed) and subscribed before me this 7 day of November 20 05.

Personally known ___ or Produced Identification ✓

Contractor Signature

Contractors License Number

Competency Card Number

NOTARY STAMP/SEAL

Linda R. Roder

Notary Signature

DISCLOSURE STATEMENT

FOR OWNER/BUILDER WHEN ACTING AS THER OWN CONTRACTOR AND CLAIMING EXEMPTION OF CONTRACTOR LICENSING REQUIREMENTS IN ACCORDANCE WITH FLORIDA STATUTES, ss. 489.103(7).

State law requires construction to be done by licensed contractors. You have applied for a permit under an exemption to that law. The exemption allows you, as the owner of your property, to act as your own contractor with certain restrictions even though you do not have a license. You must provide direct, onsite supervision of the construction yourself. You may build or improve a one-family or two-family residence or a farm outbuilding. You may also build or improve a commercial building, provided your costs do not exceed $25,000. The building or residence must be for your own use or occupancy. It may not be built or substantially improved for sale or lease. If you sell or lease a building you have built or substantially improved yourself within 1 year after the construction is complete, the law will presume that you built or substantially improved it for sale or lease, which is a violation of this exemption. You may not hire an unlicensed person to act as your contractor or to supervise people working on your building. It is your responsibility to make sure that people employed by you have licenses required by state law and by county or municipal licensing ordinances. You may not delegate the responsibility for supervising work to a licensed contractor who is not licensed to perform the work being done. Any person working on your building who is not licensed must work under your direct supervision and must be employed by you, which means that you must deduct F .I.C.A. and withholding tax and provide workers' compensation for that employee, all as prescribed by law. Your construction must comply with all applicable laws, ordinances, building codes, and zoning regulations.

TYPE OF CONSTRUCTION

( ) Single Family Dwelling
( ) Farm Outbuilding
( ) New Construction
( ) Two-Family Residence
( ) Other_____
( ) Addition, Alteration, Modification or other Improvement

NEW CONSTRUCTION OR IMPROVEMENT

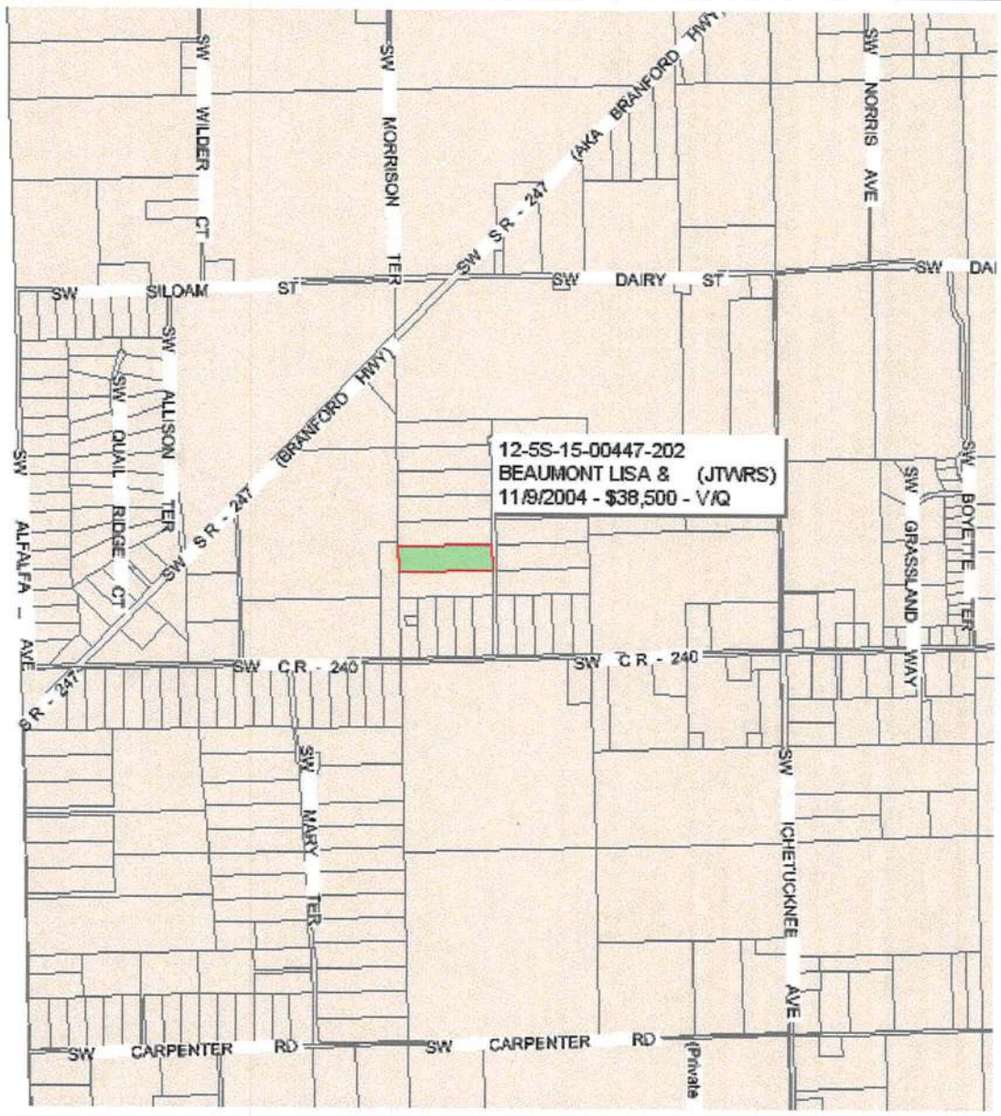
I Anthony Mikulic, have been advised of the above disclosure statement for exemption from contractor licensing as an owner/builder. I agree to comply with all requirements provided for in Florida Statutes ss.489.103(7) allowing this exception for the construction permitted by Columbia County Building Permit Number_____

X Anthony M Mikulic 11-07-05
Signature Date

FOR BUILDING USE ONLY

I hereby certify that the above listed owner/builder has been notified of the disclosure statement in Florida Statutes ss 489.103(7).

Date 11-29-05 Building Official/Representative L. Hall



Columbia County Property Appraiser

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

PARCEL: 12-5S-15-00447-202 - NO AG ACRE (009900)

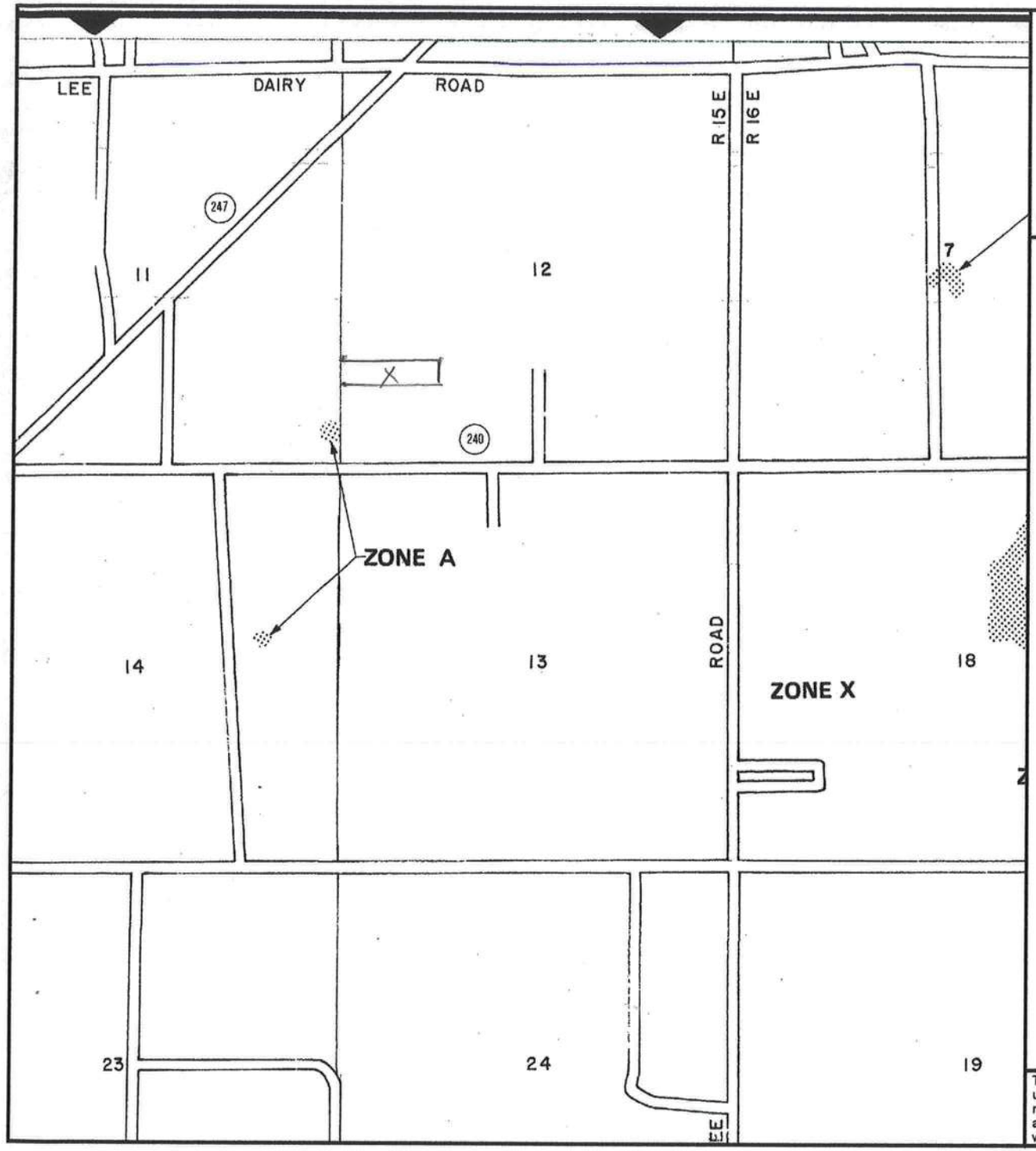
COMM SW COR, BEING ON C/L OF CR-240, RUN N 1230.33 FT FOR POB, CONT N 349.31 FT, E

Name:	BEAUMONT LISA & (JTWRS)	LandVal	$33,696.00
Site:	PINE RIDGE ACRES UNREC	BldgVal	$0.00
	DEON SHEEHY	ApprVal	$33,696.00
Mail:	5220 S PINE ISLAND RD	JustVal	$33,696.00
	FT LAUDERDALE, FL 33328	Assd	$33,696.00
Sales	11/9/2004 $38,500.00 V / Q	Exmpt	$0.00
Info	4/14/1995 $18,000.00 V / Q	Taxable	$33,696.00

0 0.1 0.2 0.3 mi

N W E S

This information, GIS Map Updated: 8/3/2005, 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.



N

APPROXIMATE SCALE IN FEET

2000 0 2000

NATIONAL FLOOD INSURANCE PROGRAM

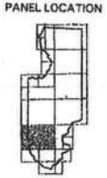
FIRM

FLOOD INSURANCE RATE MAP

COLUMBIA COUNTY, FLORIDA
(UNINCORPORATED AREAS)

PANEL 225 OF 290

PANEL LOCATION



COMMUNITY-PANEL NUMBER
120070 0225 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 F-MIT Version 1.0. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. Futher information about National Flood Insurance Program flood hazard maps is available at www.fema.gov/mit/tsd.

Print Date: 11/14/2005 (printed at scale and type A)

THIS INSTRUMENT PREPARED BY AND RETURN TO:
Yunier Ruiz
Title Masters USA, Inc.
11011 Sheridan Street, Suite 212
Cooper City, Florida 33026
Property Appraisers Parcel Identification (Folio) Number: 12-5S-15-00447-202

SPACE ABOVE THIS LINE FOR RECORDING DATA

THIS WARRANTY DEED, made the 11th day of August, 2005 by Lisa Beaumont, a single woman, and Deon Sheeby, a single man, herein called the grantors, to Anthony Mikulic and Carmen Mikulic whose post office address is 16900 Parker Road, Homerglen, IL 60491, hereinafter called the Grantees:
(Wherever used herein the terms "grantor" and "grantee" include all the parties to this instrument and the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporations)

W I T N E S S E T H: That the grantors, for and in consideration of the sum of TEN AND 00/100'S ($10.00) Dollars and other valuable considerations, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, aliens, remises, releases, conveys and confirms unto the grantee all that certain land situate in COLUMBIA County, State of Florida, viz.:

A PORTION OF THE SOUTHWEST ¼ OF SECTION 12, TOWNSHIP 5 SOUTH, RANGE 15 EAST, COLUMBIA COUNTY, FLORIDA. BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:
COMMENCE AT THE SOUTHWEST CORNER OF SAID SECTION 12 AND RUN ALONG THE WEST LINE OF SAID SECTION, NORTH 00 DEGREES 08 MINUTES 02 SECONDS WEST, 1230.33 FEET TO THE POINT OF BEGINNING;THENCE CONTINUE ALONG SAID WEST LINE OF SECTION 12, NORTH 00 DEGREES 08 DEGREES 08 MINUTES 02 SECONDS WEST, 349.31 FEET; THENCE RUN NORTH 89 DEGREES 10 MINUTES 48 SECONDS EAST, 1297.89 FEET TO A POINT ON THE WEST RIGHT OF WAY LINE OF PINE RIDGE LAND (A 60 FOOT WIDE ROAD); THENCE RUN ALONG SAID WEST RIGHT OF WAY LINE, SOUTH 00 DEGREES 10 MINUTES 16 SECONDS EAST, 349.31 FEET; THENCE RUN SOUTH 89 DEGREES 10 MINUTES 48 SECONDS WEST, 1297.12 FEET TO THE POINT OF BEGINNING. (LOT 2, PINE RIDGE ACRES, AN UNRECORDED SUBDIVISION)

Subject to easements, restrictions and reservations of record and to taxes for the year 2005 and thereafter.

TOGETHER, with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

TO HAVE AND TO HOLD, the same in fee simple forever.

AND, the grantors hereby covenant with said grantees that the grantors are lawfully seized of said land in fee simple; that the grantors have good right and lawful authority to sell and convey said land, and hereby warrant the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances, except taxes accruing subsequent to December 31, 2004.

IN WITNESS WHEREOF, the said grantors have signed and sealed these presents the day and year first above written.

Signed, sealed and delivered in the presence of:

Witness #1 Signature

Yunier Ruiz
Witness #1 Printed Name

Witness #2 Signature

Tania Ruiz
Witness #2 Printed Name

Lisa Beaumont
Lisa Beaumont
11715 62 Lane North, West Palm Beach, FL 33412

Deon Sheeby
11715 62 Lane North, West Palm Beach, FL 33412

Inst:2005020078 Date:08/18/2005 Time:12:51
Doc Stamp-Deed : 686.00
DC,P.DeWitt Cason,Columbia County B:1055 P:1519

File No.: 05-0185

(Warranty Deed Cont'd Beaumont a/t Mikulic)

STATE OF FLORIDA
COUNTY OF BROWARD

The foregoing instrument was acknowledged before me this 11th day of August, 2005 by Lisa Beaumont and Deon Sheehy who are personally known to me or have produced Drivers License as identification.

SEAL

My Commission Expires:

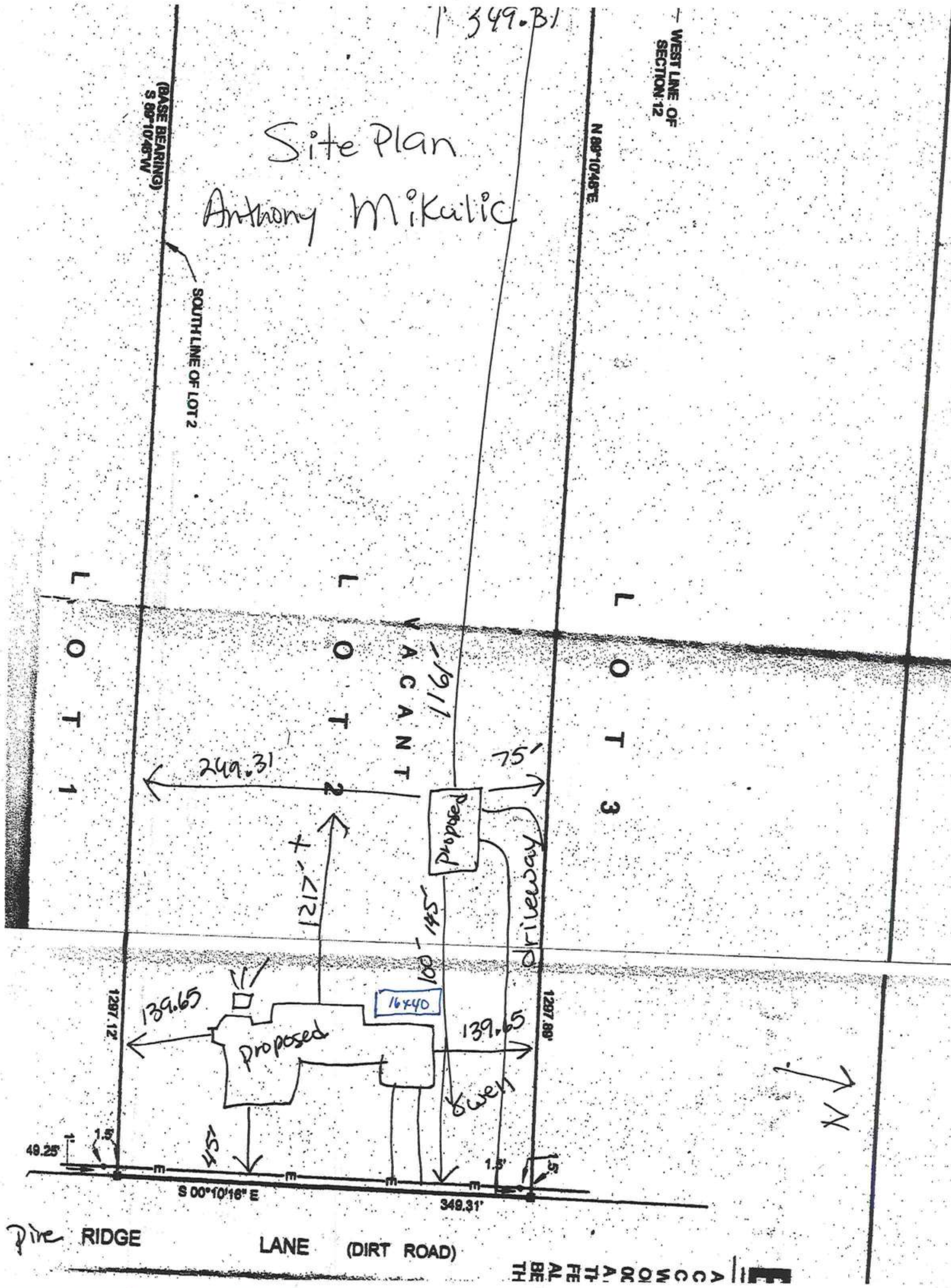
YUNIER RUIZ
MY COMMISSION #DD267216
EXPIRES: NOV 30, 2007

Notary Public

Yunier Ruiz
Printed Name

Inst:2005020078 Date:08/18/2005 Time:12:51
Doc Stamp-Deed : 686.00
DC,P.DeWitt Cason,Columbia County B:1055 P:1520

File No.: 05-0185

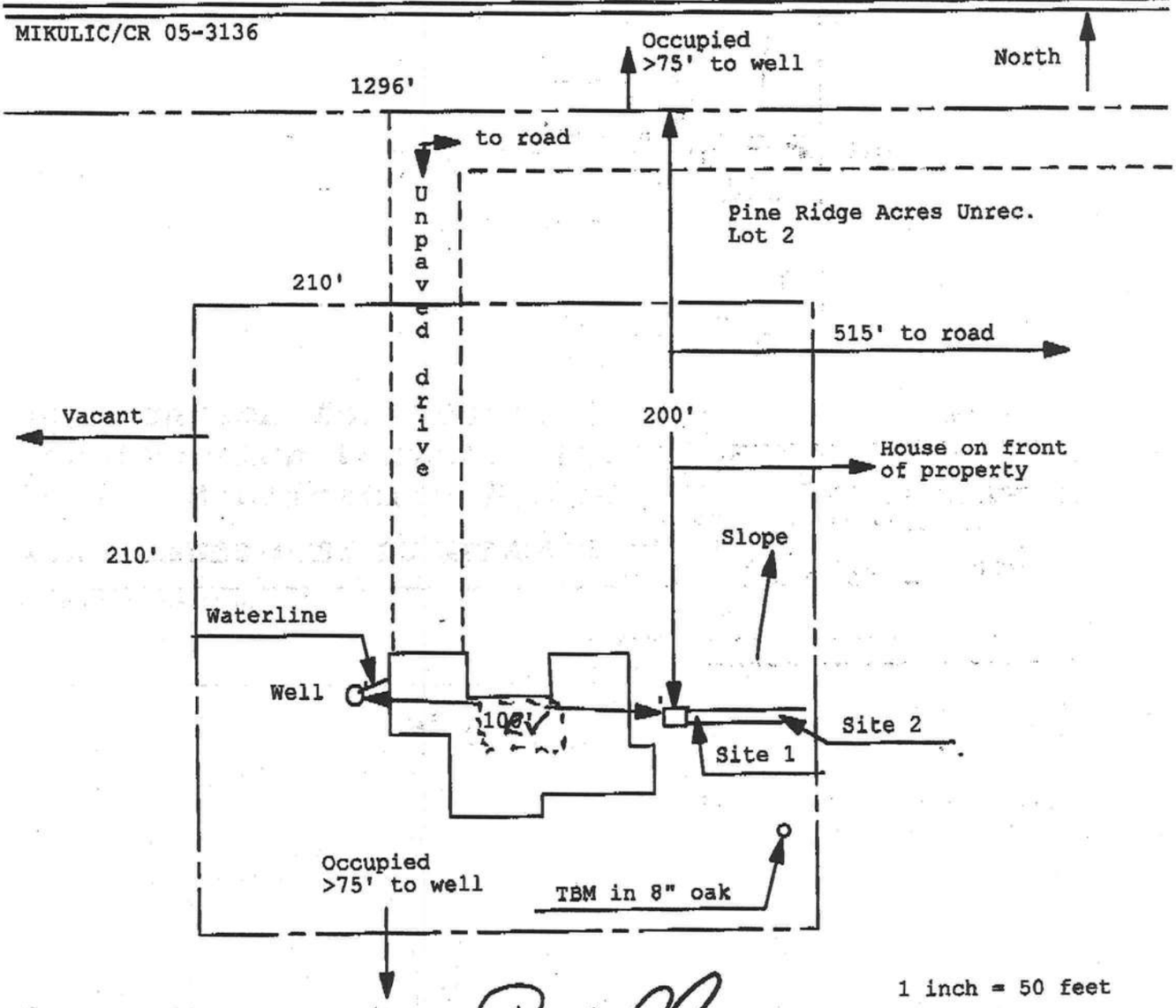

Site Plan
Anthony Mikulic
349.31
WEST LINE OF SECTION 12
(BASE BEARING) S 89°10'45"W
SOUTH LINE OF LOT 2
LOT 1
LOT 2
LOT 3
VACANT
249.31
75'
Proposed
Driveway
139.65
proposed
16x40
139.65
well
1297.12'
1297.89'
49.25'
1.5'
S 00°10'16" E
349.31'
Pine RIDGE LANE (DIRT ROAD)

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

Permit Application Number: 05-1071N

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

MIKULIC/CR 05-3136



1 inch = 50 feet

Site Plan Submitted By Paul Lloyd Date 10/7/05

Plan Approved ✓ Not Approved ___ Date 10/13/05

By [signature] Columbia CPHU

Notes: _____

NOTICE OF COMMENCEMENT FORM
COLUMBIA COUNTY, FLORIDA

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

x Parcel ID Number 12-5S-15-00447-202

Description of property: (legal description of the property and street address or 911 address)
Pine Ridge Acres Lot 2
911 address: 364 S.W. Pine Ridge Ct. Lake City FL 32024

General description of improvement: Single family dwelling

Owner Name & Address Anthony & Carmen Mikulic

Interest in Property homesite

Name & Address of Fee Simple Owner (if other than owner): NA

Contractor Name Anthony Mikulic Phone Number 708-642-4772
Address 16900 Parker Road Hoverglen, IL 60491

Surety Holders Name NA Phone Number
Address
Amount of Bond

Inst:2005028040 Date:11/09/2005 Time:12:21
DC,P.DeWitt Cason,Columbia County B:1064 P:1838

Lender Name NA
Address

Persons within the State of Florida designated by the Owner upon whom notices or other documents may be erved as provided by section 718.13 (1)(a) 7; Florida Statutes:
Name NA Phone Number
Address

In addition to himself/herself the owner designates NA of
to receive a copy of the Lienor's Notice as provided in Section 713.13 (1) –
(a) 7. Phone Number of the designee NA

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) NA

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

X Carmen Mikulic
Signature of Owner

Sworn to (or affirmed) and subscribed before
7 day of November, 20 05

NOTARY STAMP/SEAL

Linda R. Roder
Commission #DD303275
Expires: Mar 24, 2008
Bonded Thru
Atlantic Bonding Co., Inc.

Linda R. Roder
Signature of Notary

Return to: Linda Roder
387 SW Kemp Ct
Lake City FL 32024

HALL'S PUMP & WELL SERVICE, INC.

SPECIALIZING IN 4"-6" WELLS

DONALD AND MARY HALL
OWNERS

PHONE (904) 752-1854
FAX (904) 755-7022
[redacted]
LAKE CITY, FLORIDA 32055
904 NW Main Blvd.

June 12, 2002

NOTICE TO ALL CONTRACTORS

Please be advised that due to the new building codes we will use a large capacity diaphram tank on all new wells. This will insure a minimum of one (1) minute draw down or one (1) minute refill. If a smaller diaphram tank is used then we will install a cycle stop valve which will produce the same results.

If you have any questions please feel free to call our office anytime.

Thank you,

Donald D. Hall
DDH/jk

FORM 600A-2004 EnergyGauge® 4.0

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**511014MikulicResidence**	Builder:	
Address:		Permitting Office:	
City, State:	,	Permit Number:	
Owner:	**Mikulic Residence**	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: 43.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 10.00
4. Number of Bedrooms	3	b. N/A	
5. Is this a worst case?	Yes	c. N/A	
6. Conditioned floor area (ft²)	2030 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: 43.0 kBtu/hr
(or Single or Double DEFAULT) 7a.	(Dble Default) 186.0 ft²		HSPF: 7.00
b. SHGC:		b. N/A	
(or Clear or Tint DEFAULT) 7b.	(Clear) 186.0 ft²	c. N/A	
8. Floor types			
a. Raised Wood, Stem Wall	R=0.0, 2030.0ft²	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. Log, 8 inch, Exterior	R=13.0, 1385.0 ft²	c. Conservation credits	
b. Log, 8 inch, Exterior	R=13.0, 108.0 ft²	(HR-Heat recovery, Solar DHP-Dedicated heat pump)	
c. N/A		15. HVAC credits	
d. N/A		(CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	
e. N/A			
10. Ceiling types			
a. Under Attic	R=30.0, 2092.0 ft²		
b. N/A			
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 160.0 ft		
b. N/A			

Glass/Floor Area: 0.14 Total as-built points: 29128 Total base points: 30281 **PASS**

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

PREPARED BY: Ben Ingram

DATE: 11-9-05

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

OWNER/AGENT: Jennifer Reale

DATE: 11-9-05

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.

GREAT SEAL OF THE STATE OF FLORIDA IN GOD WE TRUST

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: , , , PERMIT #:

BASE

GLASS TYPES

.18 X	Conditioned Floor Area	X BSPM	= Points
.18	2030.0	20.04	7322.6

WALL TYPES	Area	X BSPM	= Points
Adjacent	0.0	0.00	0.0
Exterior	1493.0	1.70	2538.1
Base Total:	**1493.0**		**2538.1**

DOOR TYPES	Area	X BSPM	= Points
Adjacent	20.0	2.40	48.0
Exterior	160.0	6.10	976.0
Base Total:	**180.0**		**1024.0**

CEILING TYPES	Area	X BSPM	= Points
Under Attic	2030.0	1.73	3511.9
Base Total:	**2030.0**		**3511.9**

AS-BUILT

Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF =	Points
Double, Clear	SW	1.5	5.5	15.0	40.16	0.86	519.9
Double, Clear	W	1.5	5.5	25.0	38.52	0.90	863.8
Double, Clear	NW	1.5	5.5	15.0	25.97	0.91	355.2
Double, Clear	W	1.5	5.5	15.0	38.52	0.90	518.3
Double, Clear	W	1.5	8.0	80.0	38.52	0.96	2952.8
Double, Clear	N	1.5	8.0	20.0	19.20	0.97	371.4
Double, Clear	E	6.5	4.5	24.0	42.06	0.44	443.8
Double, Clear	E	6.5	12.0	10.0	42.06	0.70	294.0
Double, Clear	E	6.5	1.5	10.0	42.06	0.36	150.1
Double, Clear	NE	1.5	5.5	10.0	29.56	0.91	267.6
Double, Clear	E	1.5	5.5	20.0	42.06	0.90	754.0
Double, Clear	SE	1.5	5.5	10.0	42.75	0.86	368.1
Double, Clear	E	1.5	2.5	2.0	42.06	0.66	55.9
Double, Clear	S	1.5	5.5	15.0	35.87	0.83	447.7
Double, Clear	S	1.5	2.5	2.0	35.87	0.61	44.0
Double, Clear	S	8.5	8.0	10.0	35.87	0.51	183.5
As-Built Total:				**283.0**			**8590.1**

Type	R-Value	Area X	SPM =	Points
Log, 8 inch, Exterior	13.0	1385.0	0.60	831.0
Log, 8 inch, Exterior	13.0	108.0	0.60	64.8
As-Built Total:		**1493.0**		**895.8**

Type	Area X	SPM =	Points
Exterior Insulated	120.0	4.10	492.0
Exterior Insulated	40.0	4.10	164.0
Adjacent Insulated	20.0	1.60	32.0
As-Built Total:	**180.0**		**688.0**

Type	R-Value	Area X	SPM X SCM =	Points
Under Attic	30.0	2092.0	1.73 X 1.00	3619.2
As-Built Total:		**2092.0**		**3619.2**

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , , PERMIT #:

BASE				AS-BUILT					
FLOOR TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	=	Points
Slab	0.0(p)	0.0	0.0	Raised Wood, Stem Wall	0.0	2030.0	-4.70		-9541.0
Raised	2030.0	-3.99	-8099.7						
Base Total:			**-8099.7**	**As-Built Total:**		**2030.0**			**-9541.0**
INFILTRATION	Area X	BSPM	= Points			Area X	SPM	=	Points
	2030.0	10.21	20726.3			2030.0	10.21		20726.3
Summer Base Points: 27023.2				**Summer As-Built Points:**					**24978.4**
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
27023.2	**0.4266**	**11528.1**		(sys 1: Central Unit 43000 btuh ,SEER/EFF(10.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS) 24978 **24978.4**	1.00 **1.00**	(1.09 x 1.147 x 0.91) **1.138**	0.341 **0.341**	1.000 **1.000**	9699.1 **9699.1**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , , PERMIT #:

BASE

GLASS TYPES

.18 X	Conditioned Floor Area	X BWPM	= Points
.18	**2030.0**	**12.74**	**4655.2**

WALL TYPES	Area	X BWPM	= Points
Adjacent	0.0	0.00	0.0
Exterior	1493.0	3.70	5524.1
Base Total:	**1493.0**		**5524.1**

DOOR TYPES	Area	X BWPM	= Points
Adjacent	20.0	11.50	230.0
Exterior	160.0	12.30	1968.0
Base Total:	**180.0**		**2198.0**

CEILING TYPES	Area	X BWPM	= Points
Under Attic	2030.0	2.05	4161.5
Base Total:	**2030.0**		**4161.5**

AS-BUILT

Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF =	Points
Double, Clear	SW	1.5	5.5	15.0	16.74	1.07	269.2
Double, Clear	W	1.5	5.5	25.0	20.73	1.03	532.8
Double, Clear	NW	1.5	5.5	15.0	24.30	1.00	365.9
Double, Clear	W	1.5	5.5	15.0	20.73	1.03	319.7
Double, Clear	W	1.5	8.0	80.0	20.73	1.01	1676.7
Double, Clear	N	1.5	8.0	20.0	24.58	1.00	492.0
Double, Clear	E	6.5	4.5	24.0	18.79	1.38	622.7
Double, Clear	E	6.5	12.0	10.0	18.79	1.14	213.4
Double, Clear	E	6.5	1.5	10.0	18.79	1.51	283.2
Double, Clear	NE	1.5	5.5	10.0	23.57	1.01	237.6
Double, Clear	E	1.5	5.5	20.0	18.79	1.04	391.4
Double, Clear	SE	1.5	5.5	10.0	14.71	1.11	163.8
Double, Clear	E	1.5	2.5	2.0	18.79	1.16	43.5
Double, Clear	S	1.5	5.5	15.0	13.30	1.15	228.8
Double, Clear	S	1.5	2.5	2.0	13.30	1.90	50.4
Double, Clear	S	8.5	8.0	10.0	13.30	2.83	376.8
As-Built Total:				**283.0**			**6267.8**

Type	R-Value	Area X	WPM	= Points
Log, 8 inch, Exterior	13.0	1385.0	1.70	2354.5
Log, 8 inch, Exterior	13.0	108.0	1.70	183.6
As-Built Total:		**1493.0**		**2538.1**

Type	Area X	WPM	= Points
Exterior Insulated	120.0	8.40	1008.0
Exterior Insulated	40.0	8.40	336.0
Adjacent Insulated	20.0	8.00	160.0
As-Built Total:	**180.0**		**1504.0**

Type	R-Value	Area X	WPM X WCM =	Points
Under Attic	30.0	2092.0	2.05 X 1.00	4288.6
As-Built Total:		**2092.0**		**4288.6**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , , PERMIT #:

BASE				AS-BUILT					
FLOOR TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	=	Points
Slab	0.0(p)	0.0	0.0	Raised Wood, Stem Wall	0.0	2030.0	3.50		7105.0
Raised	2030.0	0.96	1948.8						
Base Total:			**1948.8**	**As-Built Total:**		**2030.0**			**7105.0**
INFILTRATION	Area X	BWPM	= Points			Area X	WPM	=	Points
	2030.0	-0.59	-1197.7			2030.0	-0.59		-1197.7
Winter Base Points:			**17289.9**	**Winter As-Built Points:**					**20505.8**
Total Winter Points	X System Multiplier	= Heating Points		Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points
				(sys 1: Electric Heat Pump 43000 btuh ,EFF(7.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0					
17289.9	**0.6274**	**10847.7**		20505.8 **20505.8**	1.000 **1.00**	(1.069 x 1.169 x 0.93) **1.162**	0.487 **0.487**	1.000 **1.000**	11609.3 **11609.3**

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: , , , PERMIT #:

BASE				AS-BUILT							
WATER HEATING											
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X	Tank Ratio	X Multiplier	X Credit Multiplier	= Total
3		2635.00	7905.0	40.0	0.93	3		1.00	2606.67	1.00	7820.0
				As-Built Total:							**7820.0**

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points	Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points
11528	**10848**	**7905**	**30281**	**9699**	**11609**	**7820**	**29128**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: , , , 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* = 83.8

The higher the score, the more efficient the home.

Mikulic Residence, , , ,

1.	New construction or existing	New		12.	Cooling systems	
2.	Single family or multi-family	Single family			a. Central Unit	Cap: 43.0 kBtu/hr
3.	Number of units, if multi-family	1				SEER: 10.00
4.	Number of Bedrooms	3			b. N/A	
5.	Is this a worst case?	Yes				
6.	Conditioned floor area (ft²)	2030 ft²			c. N/A	
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)					
	a. U-factor:	Description Area		13.	Heating systems	
	(or Single or Double DEFAULT) 7a.	(Dble Default) 186.0 ft²			a. Electric Heat Pump	Cap: 43.0 kBtu/hr
	b. SHGC:					HSPF: 7.00
	(or Clear or Tint DEFAULT) 7b.	(Clear) 186.0 ft²			b. N/A	
8.	Floor types					
	a. Raised Wood, Stem Wall	R=0.0, 2030.0ft²			c. N/A	
	b. N/A					
	c. N/A			14.	Hot water systems	
9.	Wall types				a. Electric Resistance	Cap: 40.0 gallons
	a. Log, 8 inch, Exterior	R=13.0, 1385.0 ft²				EF: 0.93
	b. Log, 8 inch, Exterior	R=13.0, 108.0 ft²			b. N/A	
	c. N/A					
	d. N/A				c. Conservation credits	
	e. N/A				(HR-Heat recovery, Solar	
10.	Ceiling types				DHP-Dedicated heat pump)	
	a. Under Attic	R=30.0, 2092.0 ft²		15.	HVAC credits	
	b. N/A				(CF-Ceiling fan, CV-Cross ventilation,	
	c. N/A				HF-Whole house fan,	
11.	Ducts				PT-Programmable Thermostat,	
	a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 160.0 ft			MZ-C-Multizone cooling,	
	b. N/A				MZ-H-Multizone heating)	

I certify that this home has complied with the Florida Energy Efficiency Code For Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: _____ Date: _____

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

**NOTE: The home's estimated energy performance score is only available through the FLA/RES computer program. This is not a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStar™ designation), your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 321/638-1492 or see the Energy Gauge web site at www.fsec.ucf.edu for information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Building Construction, contact the Department of Community Affairs at 850/487-1824.*

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

Mark Disosway, P.E.
POB 868, Lake City, FL 32056, Ph (386) 754-5419, Fax (702) 543-7241

November 22, 2005

Building Dept Columbia Co
35 N. Hernando St.
POB 1529
Lake City, FL 32056-1529

Re: Plans Addendum: Anthony & Carman Mikulic Res.(main house), 364SW Pine Ridge Court, Lake City, FL 32024

Dear Joe Haltiwanger:

This letter is an addendum for the above referenced house. **Permit application # 0511-39**.

- The foundation was designed for 1000psf bearing capacity.
    - Please assume safe bearing capacity 1000psf.
- The Plans call for 2x6 gable end framing.
    - It is OK to substitute 2x4 SPF#2 in place of framing the 2x6 framing.
- The plans call for a 2x8 SYP#2 ledger at connection of porch floor to main house.
    - It is OK to substitute 2x6 SYP#2 ledgers in place of the 2x8 ledger.
- The plans call for a 2x6 SYP#2 PT porch decking.
    - It is OK to substitute 5/4 SYP#2 PT decking in the place of the 2x6 decking.
- The plans call for a 2x10 SYP#2 ceiling joists over the front right bedroom.
    - It is OK to substitute 2x6 SYP#2 ceiling joists in place of the 2x10 for spans up to 10'-0".
- The plans call for a 2x8 SYP#2 @ 24" oc roof framing @ left porch.
    - It is OK to substitute 2x6 SYP#2 @ 24" oc in place of the 2x8 for spans up to 10'-0".
- The chimney is to extend 36" min. above ridge as shown on sheet 1, Front Elevation.
- All windows in bathrooms are to be safety glass
- Builder is to verify that all egress windows have a min. net clear opening of 5.7ft2, and a min. net clear opening height of 24" and a min. net clear opening width of 20".

23NOV05

Mark Disosway, PE
Florida Registered Professional Engineer

RESIDENTIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST FOR FLORIDA BUILDING CODE 2004 and FLORIDA RESIDENTIAL CODE 2004 WITH AMENDMENTS ONE (1) AND TWO (2) FAMILY DWELLINGS

ALL REQUIREMENTS ARE SUBJECT TO CHANGE
EFFECTIVE OCTOBER 1, 2005

ALL BUILDING PLANS MUST INDICATE THE FOLLOWING ITEMS AND INDICATE COMPLIANCE WITH CHAPTER 16 OF THE FLORIDA BUILDING CODE 2004 BY PROVIDING CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION FOR ONE-AND-TWO FAMILY DWELLINGS. FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEED AS PER FIGURE 1609 SHALL BE USED.

WIND SPEED LINE SHALL BE DEFINED AS FOLLOWS: THE CENTERLINE OF INTERSTATE 75.

1. ALL BUILDINGS CONSTRUCTED EAST OF SAID LINE SHALL BE -------- 100 MPH
2. ALL BUILDINGS CONSTRUCTED WEST OF SAID LINE SHALL BE --------110 MPH
3. NO AREA IN COLUMBIA COUNTY IS IN A WIND BORNE DEBRIS REGION

APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

GENERAL REQUIREMENTS: Two (2) complete sets of plans containing the following:

Applicant	Plans Examiner	
☐	☑	All drawings must be clear, concise and drawn to scale ("Optional " details that are not used shall be marked void or crossed off). Square footage of different areas shall be shown on plans.
☐	☑	Designers name and signature on document (FBC 106.1). If licensed architect or engineer, official seal shall be affixed.
☐	☑	**Site Plan including:** a) Dimensions of lot b) Dimensions of building set backs c) Location of all other buildings on lot, well and septic tank if applicable, and all utility easements. d) Provide a full legal description of property.
☐	☑	**Wind-load Engineering Summary, calculations and any details required** Plans or specifications must state compliance with FBC Section 1609. The following information must be shown as per section 1603.1.4 FBC a. Basic wind speed (3-second gust), miles per hour (km/hr). b. Wind importance factor, Iw, and building classification from Table 1604.5 or Table 6-1, ASCE 7 and building classification in Table 1-1, ASCE 7. c. Wind exposure, if more than one wind exposure is utilized, the wind exposure and applicable wind direction shall be indicated. d. The applicable enclosure classifications and, if designed with ASCE 7, internal pressure coefficient. e. Components and Cladding. The design wind pressures in terms of psf (kN/m²) to be used for the design of exterior component and cladding materials not specifally designed by the registered design professional.
		Elevations including:
☐	☑	a) All sides
☐	☑	b) Roof pitch
☐	☑	c) Overhang dimensions and detail with attic ventilation

☐ ☐ d) Location, size and height above roof of chimneys.
☐ ☐ e) Location and size of skylights
☐ ☐ f) Building height
☐ ☐ e) Number of stories

Floor Plan including:

☐ ☐ a) Rooms labeled and dimensioned.
☐ ☐ b) Shear walls identified.
☐ ☐ c) Show product approval specification as required by Fla. Statute 553.842 and Fla. Administrative Code 9B-72 **(see attach forms).**
☐ ☐ d) Show safety glazing of glass, where required by code.
☐ ☐ e) Identify egress windows in bedrooms, and size.
☐ ☐ f) Fireplace (gas vented), (gas non-vented) or wood burning with hearth, **(Please circle applicable type).**
☐ ☐ g) Stairs with dimensions (width, tread and riser) and details of guardrails and handrails.
☐ ☐ h) Must show and identify accessibility requirements (accessible bathroom)

Foundation Plan including:

☐ ☐ a) Location of all load-bearing wall with required footings indicated as standard or monolithic and dimensions and reinforcing.
☐ ☐ b) All posts and/or column footing including size and reinforcing
☐ ☐ c) Any special support required by soil analysis such as piling
☐ ☐ d) Location of any vertical steel.

Roof System:

☐ ☐ a) Truss package including:
1. Truss layout and truss details signed and sealed by Fl. Pro. Eng.
2. Roof assembly (FBC 106.1.1.2)Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)

☐ ☐ b) Conventional Framing Layout including:
1. Rafter size, species and spacing
2. Attachment to wall and uplift
3. Ridge beam sized and valley framing and support details
4. Roof assembly (FBC 106.1.1.2)Roofing systems, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)

Wall Sections including:

☐ ☐ a) Masonry wall
1. All materials making up wall
2. Block size and mortar type with size and spacing of reinforcement
3. Lintel, tie-beam sizes and reinforcement
4. Gable ends with rake beams showing reinforcement or gable truss and wall bracing details
5. All required connectors with uplift rating and required number and size of fasteners for continuous tie from roof to foundation
6. Roof assembly shown here or on roof system detail (FBC 106.1.1.2) Roofing system, materials, manufacturer, fastening requirements and product evaluation with resistance rating)
7. Fire resistant construction (if required)
8. Fireproofing requirements
9. Shoe type of termite treatment (termiticide or alternative method)
10. Slab on grade
    a. Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)
    b. Must show control joints, synthetic fiber reinforcement or Welded fire fabric reinforcement and supports
11. Indicate where pressure treated wood will be placed
12. Provide insulation R value for the following:
    a. Attic space
    b. Exterior wall cavity

c. Crawl space (if applicable)

☐ ☐ b) Wood frame wall
1. All materials making up wall
2. Size and species of studs
3. Sheathing size, type and nailing schedule
4. Headers sized
5. Gable end showing balloon framing detail or gable truss and wall hinge bracing detail
6. All required fasteners for continuous tie from roof to foundation (truss anchors, straps, anchor bolts and washers)
7. Roof assembly shown here or on roof system detail (FBC 106.1.1.2) Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)
8. Fire resistant construction (if applicable)
9. Fireproofing requirements
10. Show type of termite treatment (termiticide or alternative method)
11. Slab on grade
    a. Vapor retarder (6Mil. Polyethylene with joints lapped 6 inches and sealed
    b. Must show control joints, synthetic fiber reinforcement or welded wire fabric reinforcement and supports
12. Indicate where pressure treated wood will be placed
13. Provide insulation R value for the following:
    a. Attic space
    b. Exterior wall cavity
    c. Crawl space (if applicable)

☐ ☐ c) Metal frame wall and roof (designed, signed and sealed by Florida Prof. Engineer or Architect)

Floor Framing System:

☐ ☐ a) Floor truss package including layout and details, signed and sealed by Florida Registered Professional Engineer

☐ ☐ b) Floor joist size and spacing

☐ ☐ c) Girder size and spacing

☐ ☐ d) Attachment of joist to girder

☐ ☐ e) Wind load requirements where applicable

☐ ☐ **Plumbing Fixture layout**

Electrical layout including:

☐ ☐ a) Switches, outlets/receptacles, lighting and all required GFCI outlets identified

☐ ☐ b) Ceiling fans

☐ ☐ c) Smoke detectors

☐ ☐ d) Service panel and sub-panel size and location(s)

☐ ☐ e) Meter location with type of service entrance (overhead or underground)

☐ ☐ f) Appliances and HVAC equipment

☐ ☐ g) Arc Fault Circuits (AFCI) in bedrooms

☐ ☐ h) Exhaust fans in bathroom

HVAC information

☐ ☐ a) Energy Calculations (dimensions shall match plans)

☐ ☐ b) Manual J sizing equipment or equivalent computation

☐ ☐ c)Gas System Type (LP or Natural) Location and BTU demand of equipment

☐ ☐ **Disclosure Statement for Owner Builders**

☐ ☐ ***Notice Of Commencement Required Before Any Inspections Will Be Done

☐ ☐ **Private Potable Water**

a) Size of pump motor

b) Size of pressure tank

c) Cycle stop valve if used

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

1. **Building Permit Application:** A current Building Permit Application form is to be completed and submitted for all residential projects.

2. **Parcel Number:** The parcel number (Tax ID number) from the Property Appraiser (386) 758-1084 is required. A copy of property deed is also requested.

3. **Environmental Health Permit or Sewer Tap Approval:** A copy of the Environmental Health permit, existing septic approval or sewer tap approval is required before a building permit can be issued. (386) 758-1058 **(Toilet facilities shall be provided for construction workers)**

4. **City Approval:** **If the project is to be located within the city limits of the Town of Fort White**, prior approval is required. The Town of Fort White approval letter is required to be submitted by the owner or contractor to this office when applying for a Building Permit. **(386) 497-2321**

5. **Flood Information:** All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting application to this office. Any project located within a flood zone where the base flood elevation (100 year flood) has been established shall meet the requirements of Section 8.8 of the Columbia County Land Development Regulations. Any project located within a flood zone where the base flood elevation has not been established (Zone A) shall meet the requirements of Section 8.7 of the Columbia County Land Development Regulations. **CERTIFIED FINISHED FLOOR ELEVATIONS WILL BE REQUIRED ON ANY PROJECT WHERE THE BASE FLOOD ELEVATION (100 YEAR FLOOD) HAS BEEN ESTABLISHED.**
   A development permit will also be required. Development permit cost is **$50.00**

6. **Driveway Connection:** **If the property does not have an existing access to a public road, then an** application for a culvert permit **($25.00)** must be made. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver **($50.00)**. All culvert waivers are sent to the Columbia County Public Works Department for approval or denial. **If the project is to be located on a F.D.O.T. maintained road, than an F.D.O.T. access permit is required.**

7. **911 Address:** If the project is located in an area where the 911 address has been issued, then the proper paperwork from the 911 Addressing Department must be submitted. (386) 752-8787

ALL REQUIRED INFORMATION IS TO BE SUBMITTED FOR REVIEW. YOU WILL BE NOTIFIED WHEN YOUR APPLICATION AND PLANS ARE APPROVED AND READY TO PERMIT. PLEASE DO NOT EXPECT OR REQUEST THAT PERMIT APPLICATIONS BE REVIEWED OR APPROVED WHILE YOU ARE HERE – TIME WILL NOT ALLOW THIS –PLEASE DO NOT ASK

PRODUCT APPROVAL SPECIFICATION SHEET

Location:_____ **Project Name:**_____

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and the product approval number(s) on the building components listed below if they will be utilized on the construction project for which you are **applying for a building permit on or after April 1, 2004**. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. More information about statewide product approval can be obtained at www.floridabuilding.org

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
A. EXTERIOR DOORS			
1. Swinging			
2. Sliding			
3. Sectional			
4. Roll up			
5. Automatic			
6. Other			
B. WINDOWS			
1. Single hung			
2. Horizontal Slider			
3. Casement			
4. Double Hung			
5. Fixed			
6. Awning			
7. Pass -through			
8. Projected			
9. Mullion			
10. Wind Breaker			
11 Dual Action			
12. Other			
C. PANEL WALL			
1. Siding			
2. Soffits			
3. EIFS			
4. Storefronts			
5. Curtain walls			
6. Wall louver			
7. Glass block			
8. Membrane			
9. Greenhouse			
10. Other			
D. ROOFING PRODUCTS			
1. Asphalt Shingles			
2. Underlayments			
3. Roofing Fasteners			
4. Non-structural Metal Rf			
5. Built-Up Roofing			
6. Modified Bitumen			
7. Single Ply Roofing Sys			
8. Roofing Tiles			
9. Roofing Insulation			
10. Waterproofing			
11. Wood shingles /shakes			
12. Roofing Slate			

Category/Subcategory (cont.)	Manufacturer	Product Description	Approval Number(s)
13. Liquid Applied Roof Sys			
14. Cements-Adhesives – Coatings			
15. Roof Tile Adhesive			
16. Spray Applied Polyurethane Roof			
17. Other			
E. SHUTTERS			
1. Accordion			
2. Bahama			
3. Storm Panels			
4. Colonial			
5. Roll-up			
6. Equipment			
7. Others			
F. SKYLIGHTS			
1. Skylight			
2. Other			
G. STRUCTURAL COMPONENTS			
1. Wood connector/anchor			
2. Truss plates			
3. Engineered lumber			
4. Railing			
5. Coolers-freezers			
6. Concrete Admixtures			
7. Material			
8. Insulation Forms			
9. Plastics			
10. Deck-Roof			
11. Wall			
12. Sheds			
13. Other			
H. NEW EXTERIOR ENVELOPE PRODUCTS			
1.			
2.			

The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of these products, the following information must be available to the inspector on the jobsite; 1) copy of the product approval, 2) the performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturers installation requirements.

I understand these products may have to be removed if approval cannot be demonstrated during inspection

_____

_____

_____

_____ _____

Contractor or Contractor's Authorized Agent Signature Print Name Date

_____ _____

Location Permit # **(FOR STAFF USE ONLY)**

NOTICE:

ADDRESSES BY APPOINTMENT ONLY!

TO OBTAIN A 9-1-1 ADDRESS THE REQUESTER MUST CONTACT THE COLUMBIA COUNTY 9-1-1 ADDRESSING DEPARTMENT AT (386) 752-8787 FOR AN APPOINTMENT TIME AND DATE:

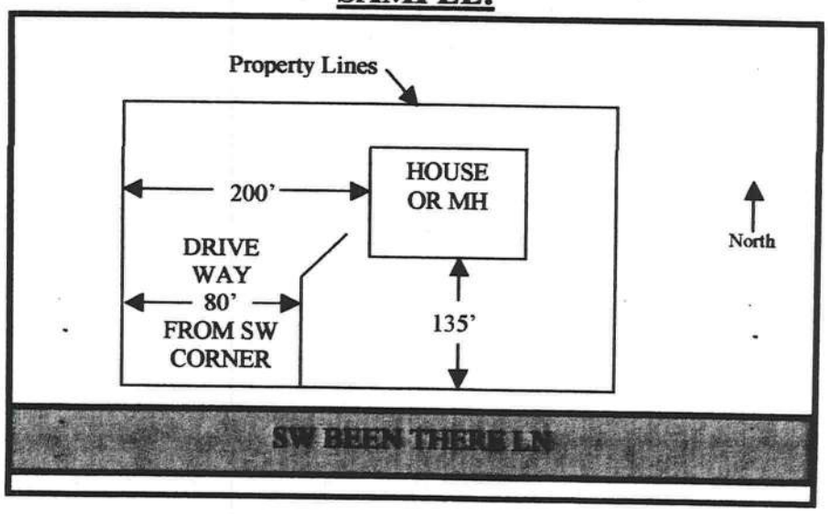
YOU CAN NOT OBTAIN A NEW ADDRESS OVER THE TELEPHONE. MUST MAKE AN APPOINTMENT!

THE ADDRESSING DEPARTMENT IS LOCATED AT 263 NW LAKE CITY AVENUE (OFF OF WEST U.S. HIGHWAY 90 WEST OF INTERSTATE 75 AT THE COLUMBIA COUNTY EMERGENCY OPERATIONS CENTER).

THE REQUESTER WILL NEED THE FOLLOWING:

1. THE PARCEL OR TAX ID NUMBER (SAMPLE: "25-4S-17-12345-123" OR "R12345-123) FOR THE PROPERTY.
2. A PLAT, PLAN, SITE PLAN, OR DRAWING SHOWING THE PROPERTY LINES OF THE PARCEL.
   a. LOCATION OF PLANNED RESIDENT OR BUSINESS STRUCTURE ON THE PROPERTY WITH DISTANCES FROM TWO OF THE PROPERTY LINES TO THE STRUCTURE (SEE SAMPLE BELOW).
   b. LOCATION OF THE ACCESS POINT (DRIVEWAY, ETC.) ON THE ROADWAY FROM WHICH LOCATION IS TO BE ADDRESSED WITH A DISTANCE FROM A PARALLEL PROPERTY LINE AND OR PROPERTY CORNER (SEE SAMPLE BELOW).
   c. TRAVEL OF THE DRIVEWAY FROM THE ACCESS POINT TO THE STRUCTURE (SEE SAMPLE BELOW).

SAMPLE:



NOTE: 5 TO 7 WORKING DAYS MAY BE REQUIRED IF ADDRESSING DEPARTMENT NEEDS TO CONDUCT AN ON SITE SURVEY.

Residential System Sizing Calculation

Summary

Mikulic Residence

Project Title:
511014MikulicResidence

Class 3 Rating
Registration No. 0
Climate: North

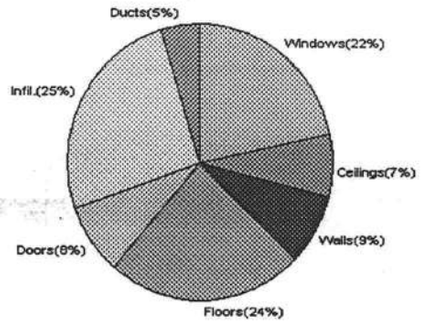
11/9/2005

Location for weather data: Gainesville - Defaults: Latitude(29) Temp Range(M)					
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(51gr.)					
Winter design temperature	31	F	Summer design temperature	93	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	39	F	Summer temperature difference	18	F
Total heating load calculation	**36773**	**Btuh**	**Total cooling load calculation**	**33345**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	116.9	43000	Sensible (SHR = 0.5)	84.7	21500
Heat Pump + Auxiliary(0.0kW)	116.9	43000	Latent	270.0	21500
			Total (Electric Heat Pump)	129.0	43000

WINTER CALCULATIONS

Winter Heating Load (for 2030 sqft)

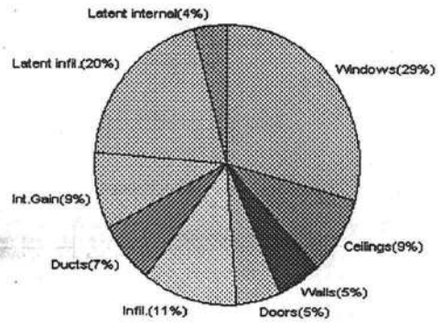
Load component			Load	
Window total	283	sqft	8009	Btuh
Wall total	1493	sqft	3135	Btuh
Door total	180	sqft	3121	Btuh
Ceiling total	2092	sqft	2720	Btuh
Floor total	2030	sqft	8729	Btuh
Infiltration	217	cfm	9308	Btuh
Subtotal			**35021**	**Btuh**
Duct loss			1751	Btuh
TOTAL HEAT LOSS			**36773**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 2030 sqft)

Load component			Load	
Window total	283	sqft	9807	Btuh
Wall total	1493	sqft	1712	Btuh
Door total	180	sqft	1825	Btuh
Ceiling total	2092	sqft	2971	Btuh
Floor total			0	Btuh
Infiltration	190	cfm	3759	Btuh
Internal gain			3000	Btuh
Subtotal(sensible)			**23074**	**Btuh**
Duct gain			2307	Btuh
Total sensible gain			**25381**	**Btuh**
Latent gain(infiltration)			6584	Btuh
Latent gain(internal)			1380	Btuh
Total latent gain			**7964**	**Btuh**
TOTAL HEAT GAIN			**33345**	**Btuh**



EnergyGauge® System Sizing based on ACCA Manual J.

PREPARED BY: Ben Lyon

DATE: 11-9-05

System Sizing Calculations - Winter

Residential Load - Component Details

Mikulic Residence

Project Title:
511014MikulicResidence

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 39.0 F

11/9/2005

Window	Panes/SHGC/Frame/U	Orientation	Area X	HTM=	Load
1	2, Clear, Metal, DEF	NW	15.0	28.3	424 Btuh
2	2, Clear, Metal, DEF	N	25.0	28.3	708 Btuh
3	2, Clear, Metal, DEF	NE	15.0	28.3	424 Btuh
4	2, Clear, Metal, DEF	N	15.0	28.3	424 Btuh
5	2, Clear, Metal, DEF	N	80.0	28.3	2264 Btuh
6	2, Clear, Metal, DEF	E	20.0	28.3	566 Btuh
7	2, Clear, Metal, DEF	S	24.0	28.3	679 Btuh
8	2, Clear, Metal, DEF	S	10.0	28.3	283 Btuh
9	2, Clear, Metal, DEF	S	10.0	28.3	283 Btuh
10	2, Clear, Metal, DEF	SE	10.0	28.3	283 Btuh
11	2, Clear, Metal, DEF	S	20.0	28.3	566 Btuh
12	2, Clear, Metal, DEF	SW	10.0	28.3	283 Btuh
13	2, Clear, Metal, DEF	S	2.0	28.3	57 Btuh
14	2, Clear, Metal, DEF	W	15.0	28.3	424 Btuh
15	2, Clear, Metal, DEF	W	2.0	28.3	57 Btuh
16	2, Clear, Metal, DEF	W	10.0	28.3	283 Btuh
	Window Total		283		8009 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Log (8 inch) - Exterior	13.0	1385	2.1	2908 Btuh
2	Log (8 inch) - Exterior	13.0	108	2.1	227 Btuh
	Wall Total		1493		3135 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exter		120	18.3	2200 Btuh
2	Insulated - Exter		40	18.3	733 Btuh
3	Insulated - Adjac		20	9.4	188 Btuh
	Door Total		180		3121Btuh
Ceilings	Type	R-Value	Area X	HTM=	Load
1	Under Attic	30.0	2092	1.3	2720 Btuh
	Ceiling Total		2092		2720Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Raised Wood/Enclosed	0	2030.0 sqft	4.3	8729 Btuh
	Floor Total		2030		8729 Btuh
Infiltration	Type	ACH X	Building Volume	CFM=	Load
	Natural	0.80	16240(sqft)	217	9308 Btuh
	Mechanical			0	0 Btuh
	Infiltration Total			217	9308 Btuh

Totals for Heating	**Subtotal**	**35021 Btuh**
	Duct Loss(using duct multiplier of 0.05)	**1751 Btuh**
	Total Btuh Loss	**36773 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Mikulic Residence

Project Title:
511014MikulicResidence

Class 3 Rating
Registration No. 0
Climate: North

,

11/9/2005

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)
Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)

System Sizing Calculations - Summer

Residential Load - Component Details

Mikulic Residence

Project Title:
511014MikulicResidence

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 18.0 F 11/9/2005

Window	Type Panes/SHGC/U/InSh/ExSh	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2, Clear, DEF, N, N	NW	1.5	5.5	15.0	0.0	15.0	22	50	750 Btuh
2	2, Clear, DEF, N, N	N	1.5	5.5	25.0	0.0	25.0	22	22	550 Btuh
3	2, Clear, DEF, N, N	NE	1.5	5.5	15.0	0.0	15.0	22	50	750 Btuh
4	2, Clear, DEF, N, N	N	1.5	5.5	15.0	0.0	15.0	22	22	330 Btuh
5	2, Clear, DEF, N, N	N	1.5	8	80.0	0.0	80.0	22	22	1760 Btuh
6	2, Clear, DEF, N, N	E	1.5	8	20.0	0.0	20.0	22	72	1440 Btuh
7	2, Clear, DEF, N, N	S	6.5	4.5	24.0	24.0	0.0	22	37	528 Btuh
8	2, Clear, DEF, N, N	S	6.5	12	10.0	10.0	0.0	22	37	220 Btuh
9	2, Clear, DEF, N, N	S	6.5	1.5	10.0	10.0	0.0	22	37	220 Btuh
10	2, Clear, DEF, N, N	SE	1.5	5.5	10.0	0.6	9.4	22	62	597 Btuh
11	2, Clear, DEF, N, N	S	1.5	5.5	20.0	20.0	0.0	22	37	440 Btuh
12	2, Clear, DEF, N, N	SW	1.5	5.5	10.0	0.6	9.4	22	62	597 Btuh
13	2, Clear, DEF, N, N	S	1.5	2.5	2.0	2.0	0.0	22	37	44 Btuh
14	2, Clear, DEF, N, N	W	1.5	5.5	15.0	0.0	15.0	22	72	1080 Btuh
15	2, Clear, DEF, N, N	W	1.5	2.5	2.0	0.2	1.8	22	72	133 Btuh
16	2, Clear, DEF, N, N	W	8.5	8	10.0	7.0	3.0	22	72	369 Btuh
	Window Total				283					9807 Btuh

Walls	Type	R-Value	Area	HTM	Load
1	Log (8 inch) - Exterior	13.0	1385.0	1.1	1588 Btuh
2	Log (8 inch) - Exterior	13.0	108.0	1.1	124 Btuh
	Wall Total		1493.0		1712 Btuh

Doors	Type	Area	HTM	Load
1	Insulated - Exter	120.0	10.1	1217 Btuh
2	Insulated - Exter	40.0	10.1	406 Btuh
3	Insulated - Adjac	20.0	10.1	203 Btuh
	Door Total	180.0		1825 Btuh

Ceilings	Type/Color	R-Value	Area	HTM	Load
1	Under Attic/Dark	30.0	2092.0	1.4	2971 Btuh
	Ceiling Total		2092.0		2971 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Raised Wood	0.0	2030.0 sqft	0.0	0 Btuh
	Floor Total		2030.0		0 Btuh

Infiltration	Type	ACH	Volume	CFM=	Load
	Natural	0.70	16240	189.8	3759 Btuh
	Mechanical			0	0 Btuh
	Infiltration Total			190	3759 Btuh

Internal gain	Occupants	Btuh/occupant	Appliance	Load
	6	X 300 +	1200	3000 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Mikulic Residence

Project Title:
511014MikulicResidence

Class 3 Rating
Registration No. 0
Climate: North

11/9/2005

Totals for Cooling	Subtotal	23074	Btuh
	Duct gain(using duct multiplier of 0.10)	2307	Btuh
	Total sensible gain	25381	Btuh
	Latent infiltration gain (for 51 gr. humidity difference)	6584	Btuh
	Latent occupant gain (6 people @ 230 Btuh per person)	1380	Btuh
	Latent other gain	0	Btuh
	TOTAL GAIN	33345	Btuh

Key: Window types (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/Daperies(B) or Roller Shades(R))
(ExSh - Exterior shading device: none(N) or numerical value)
(Ornt - compass orientation)

Strictly Wholesale, Inc.
PO Box 7500
Tallahassee, FL 32314

Simpson®

DP rating +48.3 PSF, -58.5 PSF

Installation Instructions:
The Main frame was secured to the test buck using forty-two (#10 x 2-1/2) flat head screws. Two were used at each hinge; 9 at each jamb; and 8 at the head. The dead bolt striker was quadruple screwed to the jamb frame and the cylindrical strike plate was double screwed to the jamb frame.

NCTL NATIONAL CERTIFIED TESTING LABORATORIES

1464 GEMINI BOULEVARD • ORLANDO, FLORIDA 32837
PHONE (407) 240-1356 • FAX (407) 240-8882

STRUCTURAL PERFORMANCE TEST REPORT

REPORT NO.: NCTL-210-1642-4,5,6 (S)
TEST DATE: 08-16-94
REPORT DATE: 09-12-94

LABORATORY CERTIFICATION NO.: 94-0323.47

CLIENT: Simpson/Mastermark
400 Simpson Avenue
P.O. Box 210
McCleary, Washington 98557

TEST SPECIMEN: Simpson/Mastermark's Series "1501" Dual Panel Full-Lite Double Wood Patio Door Entry System (Type OX)

TEST SPECIFICATIONS: ASTM E283-91, "Test Method for Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls and Doors under Specified Pressure Difference Across the Specimen. ASTM E330-90, "Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference." AAMA/NWWDA/101/I.S. 2-97, "Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors." North Carolina State Building Code, 1997 Edition, Section 613.

TEST SPECIMEN DESCRIPTION

GENERAL: The specimen tested was a two (2) panel type (OX) inswinging wood full lite french patio door system, consisting of a wood main frame and wood door panels. The patio door measured 6'3-1/4" wide by 8'2-3/4" high overall. Both panels measured 3'0" wide by 8'0" high by 1-3/4" thick. The fixed panel was interior adhered directly to the main frame using an adhesive bond and interior wood stops stapled-in-place on 12" centers. The fixed panel employed a rigid vinyl bottom rail that was sealed in place at the exterior. The active panel employed four (4) 4" butt hinges. One (1) cylindrical lock set was located at 36" from the bottom edge at the active panel with the dead bolt security lock at 42". Keepers were fastened to the wood jamb frame at lock positions. A dual durometer sweep was triple sealed and stapled to the bottom edge of the active panel. A secondary 9" slide bolt was located at 1-1/2" from the top left hand interior corner of the active panel with the keeper double screwed to the head at lock position. The main frame jamb/head corners were of six (6) staple corner construction. The jamb/sill corners were of triple screw coped corner construction. Panel top rail/stile corners were of glued double dowel rabbeted corner construction. The panel bottom rail/stile corners were of quadruple dowel rabbeted corner construction. The fixed jamb frame was double lag bolted at the head and sill.

WEATHERSTRIP: A single strip of dual durometer weatherseal was used at the head, hinge jamb and fixed jamb frame. A dual durometer sweep was triple sealed and continuously stapled to the bottom of the active panel. Vinyl wrapped foam dust pads were used at the hinge jamb/sill corner and the jamb frame/sill corner.

Simpson
Mastermark
DP +48.3 PSF
DP -58.5 PSF

GLAZING: Both panels were interior glazed using 1/8" thick clear tempered glass using an adhesive bedding and a nail in place interior wood bead stop. Each lite provided a viewing area of 22" x 81".

INTERIOR & EXTERIOR SURFACE FINISH: Clear sealed wood.

SEALANT: The main frame was triple siliconed sealed at the perimeter to the test buck. A small-joint sealant wa applied to the jamb/sill corners at the dust pad locations.

INSTALLATION FASTENERS: The main frame was secured to the test buck using forty-two (# 10 x 2-1/2") flat hea screws. Two (2) were used at each hinge; nine (9) at each jamb; and eight (8) at the head. The dead bolt striker wa quadruple screwed to the jamb frame and the standard cylindrical strike plate was double screwed to the jamb frame. (See fastener location diagram)

TEST RESULTS SPECIMEN NO 4 (S)

PARAGRAPH NO.	TITLE OF TEST	MEASURED	ALLOWED
5.2.7	Air Infiltration (ASTM E-283) 1.57 psf (25 mph)	0.02 CFM/FT^2	0.20" CFM/FT^2
5.2.4	Uniform Static Loads 1/2 of Full Load		
	32.4 psf Exterior	0.064"	0.384"
	42.9 psf Interior	0.078"	0.384"
	Uniform Static Loads Design Loads		
	43.2 psf Exterior	0.030"	0.384"
	57.2 psf Interior	0.038"	0.384"
5.2.6	Water Resistance (5.0 GPH/FT^2) WTP = 6.50 psf	No Entry	No Entry
5.2.5	Uniform Static Loads Full Loads		
	64.8 psf Exterior	0.132"	0.384"
	85.5 psf Interior	0.156"	0.384"

TEST RESULTS SPECIMEN NO 5 (S)

PARAGRAPH NO.	TITLE OF TEST	MEASURED	ALLOWED
5.2.7	Air Infiltration (ASTM E-283) 1.57 psf (25 mph)	0.02 CFM/FT^2	0.20" CFM/FT^2
5.2.4	Uniform Static Loads 1/2 of Full Load		
	32.4 psf Exterior	0.008"	0.384"
	42.9 psf Interior	0.038"	0.384"
	Uniform Static Loads Design Loads		
	43.2 psf Exterior	0.042"	0.384"
	57.2 psf Interior	0.057"	0.384"
5.2.6	Water Resistance (5.0 GPH/FT^2) WTP = 6.50 psf	No Entry	No Entry
5.2.5	Uniform Static Loads Full Loads		
	64.8 psf Exterior	0.090"	0.384"
	85.5 psf Interior	0.056"	0.384"

TEST RESULTS SPECIMEN NO 6 (S)

PARAGRAPH NO.	TITLE OF TEST	MEASURED	ALLOWED
5.2.7	Air Infiltration (ASTM E-283) 1.57 psf (25 mph)	0.02 CFM/FT^2	0.20" CFM/FT^2
5.2.4	Uniform Static Loads 1/2 of Full Load		
	32.4 psf Exterior	0.074"	0.384"
	42.9 psf Interior	0.080"	0.384"
	Uniform Static Loads Design Loads		
	43.2 psf Exterior	0.083"	0.384"
	57.2 psf Interior	0.060"	0.384"

5.2.6	Water Resistance (5.0 GPH/FT^2) WTP = 6.50 psf	No Entry	No Entry
5.2.5	Uniform Static Loads Full Loads		
	64.8 psf Exterior	0.146"	0.384"
	85.8 psf Interior	0.125"	0.384"

ALL TEST COMPLETED: 08-16-94

Permanent set measured readings recorded using a shaft encoder - digital deflection measurer.

NOTE: At the conclusion of the testing no damage to the specimen was observed.

Structural Test Pressures of 64.8 psf exterior and 85.8 interior were achieved. (30 second durations)

The products tested meets the criteria for Chapter 2309 of the South Florida Building Code and Protocol P 202-94.

Two (2) mill visqueen was used for uniform static loads and did not effect the specimen performance.

Detailed drawings were available for laboratory records and compared to the test specimen at the time of th report. A copy of this report along with representative sections of the test specimen will be retained by NCT for a period of four (4) years. The results obtained apply only to the specimen tested.

NATIONAL CERTIFIED TESTING LABORATORIES, INC.

MICHAEL E. LANE
Division Manager

9/27/94

Professional Engineer
Mr. Barry Portnoy
5767 Major Blvd.
Orlando, FL 32819

MEL/ld

metal . Roofing

FL3576	MILLENNIUM METALS INC.	Roofing	Non-structural Metal Roofing	Schaefer, P.E. (561) 775-4902	☑ Evaluation Report - Hardcopy Received

Page: Go

Page 1 / 1

CALCULATED BY ________ DATE ________ JOB NO. ________

CHECKED BY ________ DATE ________ SUBJECT ________ SH 1 OF 8

SKETCH NO. ________ SCALE ________

CALCULATIONS FOR ATTACHMENTS FOR RIB PANELS

29 & 26 Gauge

FOR

MILLENNIUM METALS, INC.

1330 HAINES STREET EXPRESSWAY • JACKSONVILLE, FL 32202
904-358-3966 • WATTS 1-877-358-7663 (ROOF)
FAX 904-358-3265

Greatest Mean Height 30' Exposure B

Pitches 3/12 to 12/12

BY

[signature] #6579

2/14/2003

CALCULATED BY
CHECKED BY
SKETCH NO.
DATE
SCALE
SUBJECT RIB PANELS

ZONE	TYPE OF FASTENER	ATTACHMENT MATERIAL	FASTENER SIZE	WIND SPEED 100 MPH ON CENTER SPACING	110 MPH ON CENTER SPACING	120 MPH ON CENTER SPACING	140 MPH ON CENTER SPACING
ZONE 1 THRU ZONE 3	WOOD SCREW	EXISTING 1/2" TIMBER DECK WITH BATTENS**	#9 x 3 1/2	16" O.C.	16" O.C.	16" O.C.	16" O.C.
		5/8" THICK PLYWOOD	#9 x 1 1/2"	16" O.C.	16" O.C.	16" O.C.	16" O.C.
		2x4 RAFTERS @ 2' O.C. WITH BATTENS	#9 x 3"	24" O.C.	24" O.C.	24" O.C.	24" O.C.
	METAL SCREW	12 THROUGH 18 GAUGE	#12 x 1"	16" O.C.	16" O.C.	16" O.C.	16" O.C.
		20 THROUGH 26 GAUGE	#14 x 7/8	16" O.C.	16" O.C.	16" O.C.	SEE NOTE

TYPICAL ATTACHMENT IS 9" O.C. EXCEPT AS NOTED

NOTE = DOUBLE SCREWS @ 9" O.C. WITH ROWS OF 16" PER DETAIL C

** Battens 2x4 Attached over 1/2" Plywood 10d @ 12" O.C with A #8 x 3" Ring Shank Fastener.

2x4 open Rafter Attachment of Battens are the Responsibility of the Engineer of the post Frame Application

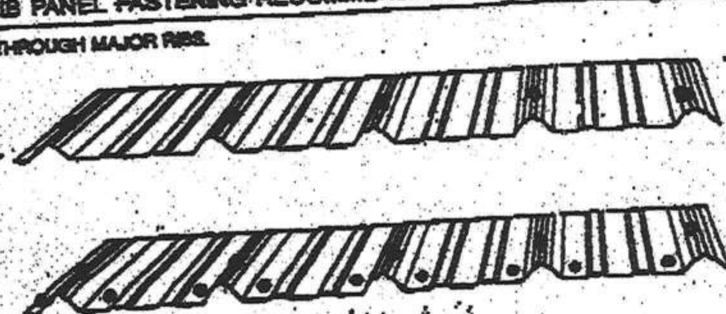
RIB PANEL FASTENING RECOMMENDATIONS (ON RIB)

Alternative

NOTE: NAIL ATTACHMENTS IS THROUGH MAJOR RIBS.

DETAIL B
FIELD PURLIN
ATTACHMENT #9 x 2 1/2
WOOD FASTENER →

DETAIL C
(EAVES, RIDGES & ENDLAPS)
#9 x 2-1/2 WOOD FASTENER →



[signature]
2/4/2003

DOLE J. KELLEY, JR., P.E.
Consulting Structural Engineer
JACKSONVILLE, FLORIDA

DOLE J. KELLEY, JR., P.E.
Consulting Structural Engineer
JACKSONVILLE, FLORIDA

DJK DATE 2/2003

JOB TITLE MILLENNIUM

JOB NO. 01 02

Consulting Structural Engineer
JACKSONVILLE, FLORIDA

CALCULATED BY D.J.K DATE 2/2003
CHECKED BY ______ DATE ______
SKETCH NO. ______ SCALE ______

JOB TITLE MILLENNIUM
JOB NO. ______
SUBJECT RIB PANELS SH 3 OF 8

RIB PANELS:

UPLIFT ATTACHMENTS -

ZONE 1
WOOD SCREWS INTO ½ TIMBER
UPLIFT = 152 #/IN x ½ = 76 # x 1.6 = 121 #

TABLE 1606.3B
100 MPH = -18.0 #/□'

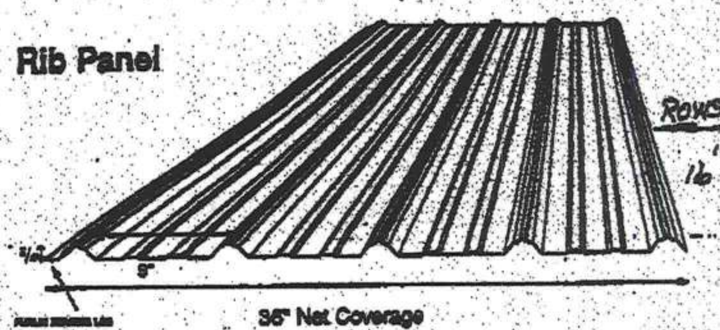
ZONE 2
100 MPH = -34.8 #/□'

ZONE 3
100 MPH = -45.4 #/□' 121 # / 45.4 #/□' = 2.66 □'

SCREWS @ 9" O.C. 2.66 □' / .75' = 3.55' > 1.33'
NOTE - USE 9" O.C. WITH ROWS @ 16" O.C. MAX.

MILLENNIUM METALS, INC.

Rib Panel



[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Ix in.⁴	Sx in³	Ix in.⁴	Sx in³
							Positive Bending		Negative Bending	
26	80	0.0187	36	38	0.91	45	.0233	.0482	.0285	.1282
29	80	0.0142	36	38	0.80	40.576	.0222	.0374	.0282	.1768

5/8" PLYWOOD
PULL OUT = 152 #/IN x .625" = 95 # x 1.6 = 152 #/SCREW

ZONE 3 - 152 # / 45.4 #/□' = 3.34 □' / .75' = 4.46' > 1.33' MAX.

2x4 BATTENS: @ 24" O.C.
PULL OUT = 152 #/IN x 1.5" = 228 # x 1.6 = 364 #
MAX. PULL = .75' x 2' x 45.4 #/□' = 68.1 # < 364 # CAPACITY

#12 SCREWS INTO METAL
#12 - 18 GAUGE - ULT = 487/3 = 162 # x 1.3 = 210 #
#14 - 26 GAUGE - ULT = 1422/3 = 420 x 1.3 = 611 #

MAX PULL-OUT = .75 x 1.33 x 45.4 #/□' = 45 # < 611 #

OK FOR #12 SCREWS @ 9" AND ROWS OF 16"

[signature] 2/14/2003

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JOB TITLE MILLENNIUM
JOB NO.
CALCULATED BY DJK DATE 2/2003
CHECKED BY DATE
SUBJECT RIB PANELS SH 4 OF 8
SKETCH NO. SCALE

RIB PANELS CONT:

110 MPH

ZONE 1 = -24.8 #/ft²
ZONE 2 = -40.1 #/ft²
ZONE 3 = -55.0 #/ft²

WOOD SCREWS

1/2" TIMBER - PULL OUT CAPACITY = 124#
9" x 1 1/2" = 1.0' = -55# < 124

5/8" PLYWOOD = PULL OUT CAPACITY = 152#
9" x 16" = 4.0' x -55 = 55# < 152

2x4 BATTENS @ 24" O.C.
PULL OUT CAPACITY = 364#
9" x 24" = 1.5' x -55 1/2 = 82.5# < 364

SCREWS INTO METAL DECK

#12 - THRU 18 GA. = CAPACITY = 210#
#14 - THRU 26 GA = CAPACITY = 61.1#

MAX PULL OUT = .75 x 1.33 x -55 #/ft² = 58# < 61.1#

FLORIDA BUILDING CODE — BUILDING

1606.2.5 Components and cladding. Pressure for wind loading actions on components and cladding shall be determined from Table 1606.2B for enclosed portions of the building and Table 1606.2C for overhangs, based on the effective area for the element under consideration. The pressures in Table 1606.2C include internal pressure. The pressure shall be applied in accordance with the loading diagrams in Figure 1606.2c.

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CALCULATED BY DJK DATE 2/2003
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SKETCH NO. SCALE

JOB TITLE MILLENNIUM
JOB NO.
SUBJECT RIB PANELS SH 5 OF 8

RIB PANELS

120 MPH - UPLIFT

ZONE 1 = -25.9 #/ft²
ZONE 2 = -50.1 #/ft²
ZONE 3 = -65.4 #/ft²

1/2" TIMBER - PULL OUT CAPACITY = 121#
9"x16" = 1.0² x 65.4# = 65.4# < 121

5/8" PLYWOOD = PULL OUT CAPACITY = 152#
9"x16" = 1.0² x 65.4 #/ft² = 65.4# < 152#

2x4 BATTENS @ 24" O.C.
PULL OUT CAPACITY = 96.4#
MAX UPLIFT = .75 x 2' x 65.4 = 98.1#

SCREWS INTO METAL

#12 - 18 GAUGE = 210#
#14 - 26 GAUGE = 61# < 65.4

IN ZONE 3 - USE 9"x1'-0" = .75' x 65.4 #/ft² = 49# < 61#

Page 2 of 2

3/9/2005

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JOB TITLE MILLENNIUM
CALCULATED BY DJK DATE 2003
CHECKED BY DATE
SUBJECT RIB PANELS JOB NO.
SKETCH NO. SCALE SH 10 OF 8

RIB PANELS CONT.

140 M.P.H.

ZONE 1 = -35.3 #/ft²
ZONE 2 = -68.1 #/ft²
ZONE 3 = -89.0 #/ft²

1/2" TIMBER PULL OUT CAPACITY = 121#
UPLIFT = 9"x16" = 1.0 ft² x 89.0 = 89.0# < 121#

5/8" PLYWOOD = PULL OUT CAPACITY = 152#
UPLIFT = 9"x16" = 1.0 ft² x 89 #/ft² = 89# < 152#

2x4 BATTENS @ 24" O.C.
PULL OUT CAPACITY = 364#
UPLIFT = 9"x24" = 1.5 ft² x 89 #/ft² = 133# < 364#

SCREWS INTO METAL

#12 - 18 GAUGE = 210# > 89#

#14 - 26 GAUGE = 61#/SCREW — IN ZONE 3 DOUBLE UP ON SCREWS ON EACH SIDE OF RIBS.

9"

0.375 x 133 = 5 ft² x 89 #/ft² = 44.5#/SCREW < 61.0#

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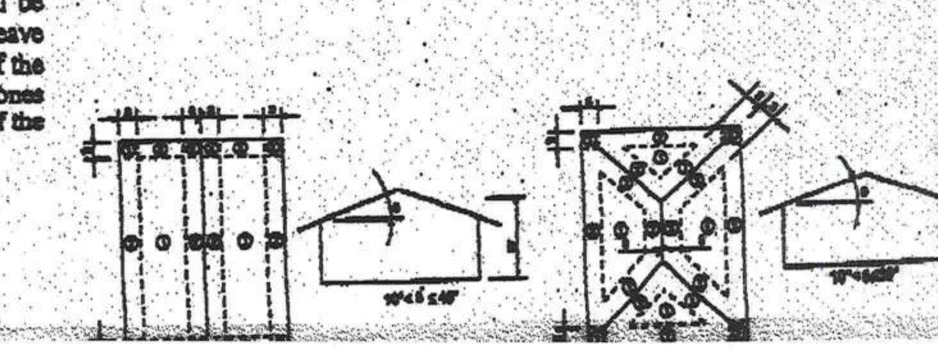
JOB TITLE: MILLENNIUM
JOB NO.:
CALCULATED BY: DJK DATE: 2/2003
CHECKED BY: DATE:
SKETCH NO.: SCALE:
SUBJECT: RIB PANELS
SH. 7 OF 8

UPLIFT VALUES:

TABLE 1606.2B
COMPONENT AND CLADDING WIND LOADS FOR A BUILDING WITH A MEAN ROOF HEIGHT OF 30 FEET LOCATED IN EXPOSURE B (psf)

Zone	Effective wind area (sf)	Basic Wind Speed V (mph - 3 second gust)															
		[illegible]		[illegible]		100		110		120		130		140		150	
Roof Angle > 0-10 degrees																	
1	10.0	10.0	-13.0	10.0	-14.6	10.0	-18.0	10.0	-21.8	[illegible]	[illegible]	[illegible]	[illegible]	14.0	[illegible]	[illegible]	[illegible]
1	20.0	10.0	-12.7	10.0	-14.2	10.0	-17.5	10.0	-21.2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1	50.0	10.0	-12.2	10.0	-13.7	10.0	[illegible]	10.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1	100.0	10.0	-11.8	10.0	-13.3	10.0	[illegible]	10.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	10.0	10.0	-21.8	10.0	-24.4	10.0	[illegible]	10.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	20.0	10.0	-19.5	10.0	-21.8	10.0	-27.0	10.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	50.0	10.0	-16.4	10.0	-18.4	10.0	-22.7	10.0	-27.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	100.0	10.0	-14.1	10.0	-15.8	10.0	-19.5	10.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	10.0	10.0	-32.8	10.0	[illegible]	10.0	-45.4	10.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	20.0	10.0	-27.2	10.0	[illegible]	10.0	-37.6	10.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	50.0	10.0	-19.7	10.0	-22.1	10.0	-27.3	10.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	100.0	10.0	-14.1	10.0	-15.8	10.0	-19.5	10.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Roof Angle > 10-30 degrees																	
1	10.0	10.0	-11.9	10.0	-13.3	10.4	-16.5	12.5	-19.9	14.9	[illegible]	17.5	[illegible]	20.3	[illegible]	23.3	[illegible]
1	20.0	10.0	-11.6	10.0	-13.0	10.0	-16.0	11.4	-19.4	13.6	[illegible]	16.0	[illegible]	18.5	[illegible]	21.3	[illegible]
1	50.0	10.0	-11.1	10.0	-12.5	10.0	-15.4	10.0	[illegible]	11.9	[illegible]	13.9	[illegible]	16.1	[illegible]	18.5	[illegible]
1	100.0	10.0	-10.8	10.0	-12.1	10.0	-14.9	10.0	-18.1	10.5	[illegible]	12.4	[illegible]	14.3	[illegible]	16.4	[illegible]
2	10.0	10.0	-25.1	10.0	-28.2	10.4	-34.9	12.5	-42.1	14.9	[illegible]	17.5	[illegible]	20.3	[illegible]	23.3	-72.2
2	20.0	10.0	-22.5	10.0	[illegible]	10.0	-31.5	11.4	[illegible]	13.6	[illegible]	16.0	[illegible]	18.5	[illegible]	21.3	-71.0
2	50.0	10.0	-19.7	10.0	-22.1	10.0	-27.3	10.0	[illegible]	11.9	[illegible]	13.9	[illegible]	16.1	[illegible]	18.5	-61.4
2	100.0	10.0	-17.4	10.0	-19.5	10.0	-24.1	10.0	[illegible]	10.5	[illegible]	12.4	[illegible]	14.3	-47.3	16.4	[illegible]
3	10.0	10.0	-25.1	10.0	-28.2	10.4	-34.9	12.5	-42.1	14.9	[illegible]	17.5	[illegible]	20.3	[illegible]	23.3	[illegible]
3	20.0	10.0	-22.5	10.0	[illegible]	10.0	-31.5	11.4	[illegible]	13.6	[illegible]	16.0	[illegible]	18.5	[illegible]	21.3	-71.0
3	50.0	10.0	-19.7	10.0	-22.1	10.0	-27.3	10.0	[illegible]	11.9	[illegible]	13.9	[illegible]	16.1	[illegible]	18.5	-61.4
3	100.0	10.0	-17.4	10.0	-19.5	10.0	-24.1	10.0	[illegible]	10.5	[illegible]	12.4	[illegible]	14.3	-47.3	16.4	[illegible]
Roof Angle > 30-45 degrees																	
1	10.0	11.9	-13.0	13.3	-14.6	16.5	-18.0	19.9	-21.8	[illegible]	[illegible]	27.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1	20.0	11.6	-12.3	13.0	[illegible]	16.0	-17.1	19.4	[illegible]	[illegible]	[illegible]	27.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1	50.0	11.1	-11.6	12.5	-12.5	15.4	[illegible]	18.6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	34.5	[illegible]
1	100.0	10.6	-10.9	12.1	-12.1	14.9	-14.9	18.1	-18.1	21.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	10.0	11.9	-15.2	13.3	-17.0	16.5	-21.0	19.9	[illegible]	[illegible]	[illegible]	27.0	[illegible]	[illegible]	-41.2	37.0	[illegible]
2	20.0	11.6	-14.5	13.0	[illegible]	16.0	[illegible]	19.4	[illegible]	[illegible]	[illegible]	27.0	[illegible]	31.4	[illegible]	[illegible]	[illegible]
2	50.0	11.1	-13.7	12.5	[illegible]	15.4	[illegible]	18.6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-37.1	34.5	[illegible]
2	100.0	10.6	[illegible]	12.1	-14.6	14.9	[illegible]	18.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	10.0	11.9	-15.2	13.3	-17.0	16.5	[illegible]	19.9	[illegible]	[illegible]	[illegible]	27.0	[illegible]	[illegible]	[illegible]	37.0	[illegible]
3	20.0	11.6	-14.5	13.0	[illegible]	16.0	[illegible]	19.4	[illegible]	[illegible]	[illegible]	27.0	[illegible]	31.4	[illegible]	[illegible]	[illegible]
3	50.0	11.1	-13.7	12.5	[illegible]	15.4	[illegible]	18.6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-37.1	34.5	[illegible]
3	100.0	10.6	[illegible]	12.1	-14.6	14.9	[illegible]	18.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]



1606.2.3 Edge strips and end zones. The width of the edge strips (a), as shown in Figure 1606.2 (c), shall be 10% of the least horizontal dimension or 40% of the eave height, whichever is less but not less than either 4% of the least horizontal dimension or 3 feet (914 mm). End zones as shown in Figure 1606.2b shall be twice the width of the edge strip (a).

FIGURE 1806.3(2)
COMPONENT AND CLADDING LOADING DIAGRAMS

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DESIGN VALUES.

Table 2.3.2 Frequently Used Load Duration Factors, C_D[1]

Load Duration	C_D	Typical Design Loads

Architectural Testing

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

Rendered to:

JORDAN COMPANIES

SERIES/MODEL: 8500
TYPE: PVC Single Hung Window

Title of Test	Results
AAMA/WDMA Rating	H-R40 (44 x 84)
Uniform Load Deflection Test Pressure	± 40.0 psf
Operating Force	10 lbs max.
Air Infiltration	0.21 cfm/ft^2
Water Resistance Test Pressure	6.00 psf
Uniform Load Structural Test Pressure	± 60.0 psf
Deglazing	Passed
Forced Entry Resistance	Grade 10

Reference should be made to full report for test specimen description and data.

Report No: 02-48976.02
Report Date: 02-26-04
Expiration Date: 02-25-08

849 Western Avenue North
Saint Paul, Minnesota 55117-5245
phone: 651.636.3835
fax: 652.636.3843
www.archtest.com

Architectural Testing

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

Rendered to:

JORDAN COMPANIES
P.O. Box 18377
Memphis, Tennessee 38118

Report No:	02-48976.02
Test Date:	02/25/04
Report Date:	02/26/04
Expiration Date:	02/25/08

Project Summary: Architectural Testing, Inc. (ATI) was contracted by Jordan Companies to perform tests on a Jordan Companies Series 8500 Single Hung Window. The sample tested successfully met the performance requirements for a H-R40 44 x 84 rating. Test specimen description and results are reported herein.

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

Test Specimen Description:

Series/Model: 8500

Type: PVC Single Hung Window

Overall Size: 3' 8" wide by 7' 0" high

Sash Size: 3' 4-3/8" wide by 2' 5" high

Fixed D.L.O. Size: 3' 4-3/4" wide by 4' 5" high

Screen Size: 3' 4-3/4" wide by 2' 4-1/4" high

Finish: All PVC was white

849 Western Avenue North
Saint Paul, Minnesota 55117-5245
phone: 651.636.3835
fax: 652.636.3843
www.archtest.com

Test Specimen Description: (Continued)

Glazing Type: The window utilized nominal 3/4" insulating glass comprised of two single-strength annealed sheets in the operating sash and two double-strength sheets in the fixed lite and a desiccant-filled metal spacer system. The glass for the fixed area was set from the interior into a bed of silicone sealant with PVC stops used on the interior. The sash was glazed from the exterior into a bed of silicone sealant with PVC stops used on the exterior.

Weatherstripping:

Description	Quantity	Location
0.260" high by 0.187" backed pile with center fin	1 Row	Sash top and bottom rails
0.260" high by 0.187" backed pile with center fin	2 Rows	Sash stiles

Frame Construction: Frame corners were miter-cut and welded. Aluminum reinforcement was utilized in the fixed meeting rail (Jordan part number H-2447).

Sash Construction: Sash corners were miter-cut and welded. Aluminum reinforcement was utilized in the top rail (Jordan part number H-2448).

Hardware:

Metal cam locks with keepers	2	6" from ends and meeting rail
Plastic tilt latches	2	Sash top rail corners
Metal tilt pins	2	Sash bottom rail corners
Block-and-tackle balances	2	One per jamb

Drainage:

3/16" by 5/8" slots	2	1-3/4" from ends in sill pocket to hollow below
1/8" by 1/2" slots	4	1-3/4" and 2" from each end through sill exterior face

Installation: The unit was installed into a Grade 2 SPF 2" by 8" wood test buck secured through the flange with 1-5/8" screws spaced 4" from corners and 8" on center. The nail fin was sealed to the buck with silicone.

Test Results: The results are tabulated as follows.

Paragraph	Title of Test	Results	Allowed
2.2.1.6.1	Operating Force		
	Force to initiate motion	10 lbs	30 lbs max.
	Force to keep in motion	8 lbs	30 lbs max.
2.1.2	Air Infiltration per ASTM E 283-97 (See Note #1)		
	@ 1.57 psf (25 mph)	0.21 cfm/ft^2	0.30 cfm/ft^2

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

2.1.3	Water Resistance per ASTM 547-97 (See Note #2)		
2.1.4.1	Uniform Load Deflection per ASTM E 330-97 (See Note #2)		
2.1.4.2	Uniform Load Structural per ASTM E 330-97 (See Note #2)		

Note #2: The client opted to start at a pressure higher than the minimum required. Those results are listed under "Optional Performance."

2.2.1.6.2	Deglazing Test per ASTM E 987		
	In operating direction @ 70 lbs		
	Top rail	0.04"/ 8%	0.500"/100%
	Bottom rail	0.06"/12%	0.500"/100%
	In remaining direction @ 50 lbs		
	Left stile	0.04"/8%	0.500"/100%
	Right stile	0.03"/6%	0.500"/100%
2.1.7	Corner Weld Test	Meets as stated	Meets as stated
2.1.8	Forced Entry Resistance per ASTM F 588-97		
	Type A		
	Grade 10		
	Lock Manipulation Test	No entry	No entry
	Tests A1 through A7	No entry	No entry
	Lock Manipulation Test	No entry	No entry

Test Results: (Continued)

Paragraph	Title of Test	Results	Allowed
	Optional Performance:		
4.3	Water Resistance per ASTM E 547-97 WTP = 6.00 psf	No leakage	No leakage
4.4.1	Uniform Load Deflection per ASTM E 330-97 (See Note #3) (Measurements reported were taken on the meeting rail) (Loads were held for 60 seconds)		
	@ 40.0 psf (positive)	0.45"	(See Note #3)
	@ 40.0 psf (negative)	0.52"	(See Note #3)
4.4.2	Uniform Load Structural per ASTM E 330-97 (Measurements reported were taken on the meeting rail) (Loads were held for 10 seconds)		
	@ 60.0 psf (positive)	0.03"	0.16" max.
	@ 60.0 psf (negative)	0.03"	0.16" max.

Note #3: The Uniform Load Deflection test is not a AAMA/NWWDA 101/I.S. 2-97 requirement for this product designation. The data is recorded in this report for information only.

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

For ARCHITECTURAL TESTING, INC.

Digitally Signed by: Paul L. Spiess

Paul L. Spiess
Project Manager

Digitally Signed by: Daniel A. Johnson

Daniel A. Johnson
Regional Manager

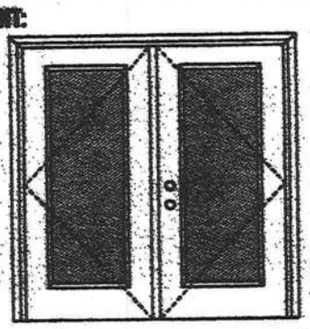
DAJ/jb
02-48976.02

XX
Glazed Outswing Unit

COP-WL-JH3162-02

WOOD-EDGE STEEL DOORS

APPROVED ARRANGEMENT:



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

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

Design Pressure
+40.5/-40.5
Limited water unless special threshold design is used.

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

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

MINIMUM ASSEMBLY DETAIL:

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

MINIMUM INSTALLATION DETAIL:

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

APPROVED DOOR STYLES:

1/4 GLASS:


100 Series


133, 135 Series


135 Series


600 Series


822 Series

1/2 GLASS:


105 Series*


108, 160 Series*


120 Series*


200 Series*


12 Rl., 23 Rl., 24 Rl. Series*


107 Series*


168 Series


304 Series

*This glass kit may also be used in the following door styles: 5-panel; 6-panel with scroll; Eyebrow 5-panel; Eyebrow 6-panel with scroll.

Johnson EntrySystems

March 29, 2002
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

PREMDOR Collection Premium Quality Doors

Exclusively from Masonite®
Masonite International Corporation

XX
Glazed Outswing Unit

COP WL-JH4162-02

WOOD-EDGE STEEL DOORS

APPROVED DOOR STYLES:

3/4 GLASS:

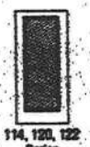

404 Series


416 Series

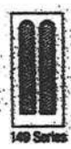

450 Series

FULL GLASS:


100 Series


114, 120, 122 Series


102 Series


149 Series


300 Series

CERTIFIED TEST REPORTS:

NCTL 210-1897-7, 8, 9, 10, 11, 12; NCTL 210-1884-5, 6, 7, 8; NCTL 210-2178-1, 2, 3

Certifying Engineer and License Number: Barry D. Portney, P.E. / 16258.

Unit Tested in Accordance with Miami-Dade BCCO PA202.

Evaluation report NCTL-210-2794-1

Door panels constructed from 26-gauge 0.017" thick steel skins. Both stiles constructed from wood. Top and rails constructed of 0.041" steel. Bottom end rails constructed of 0.021" steel. Interior cavity of slab filled with rigid polyurethane foam core. Slab glazed with insulated glass mounted in a rigid plastic lip lite surround.

Frame constructed of wood with an extruded aluminum bumper threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN
ACCORDANCE WITH
MIAMI-DADE BCCO PA202

COMPANY NAME
CITY, STATE

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

Kurt L Balthazor

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

Johnson
EntrySystems

March 29, 2002
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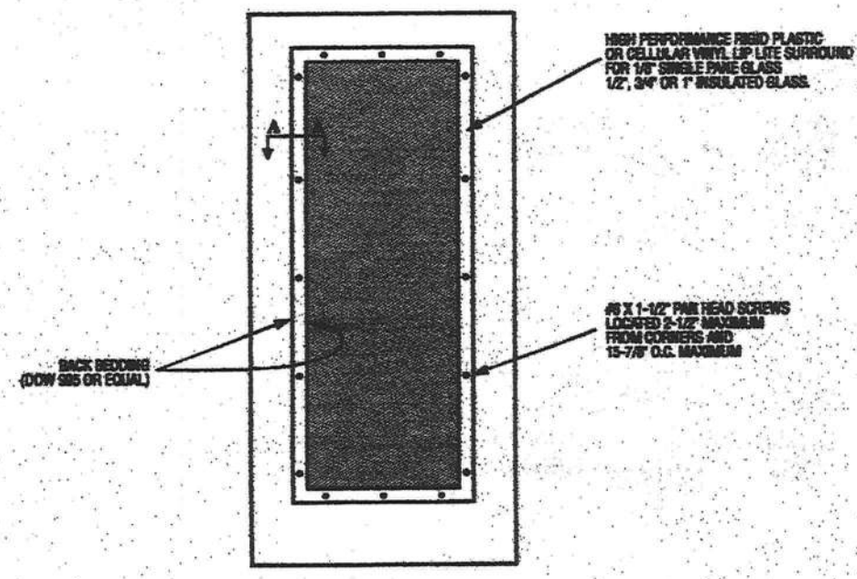
FEMDOR Collection
Premium Quality Doors

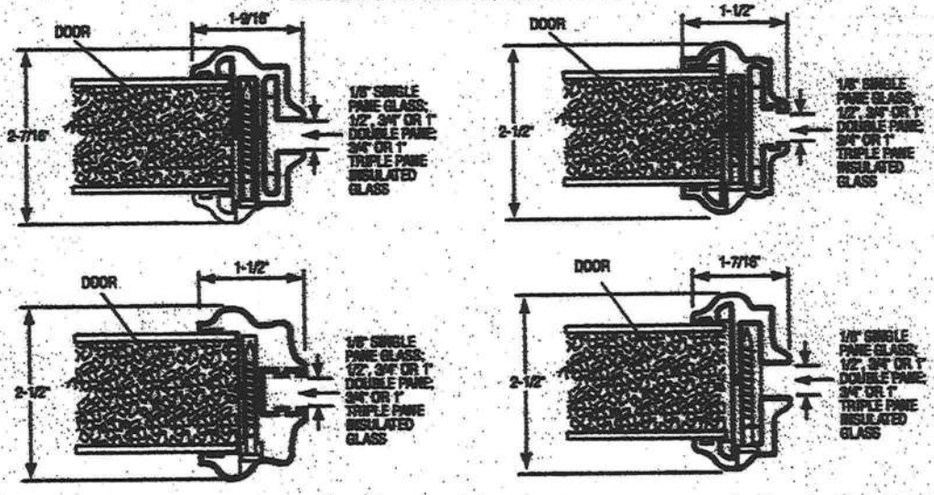
Exclusively from
Masonite®
Masonite International Corporation

MAD WL-MA0041-02

GLASS INSERT IN DOOR OR SIDELITE PANEL



SECTION A-A
TYPICAL RIGID PLASTIC LIP LITE SURROUND



PREMDOR Collection Premium Quality Doors

Exclusively from Masonite®

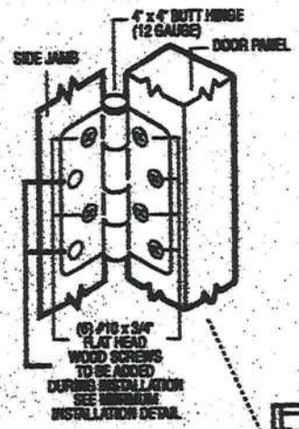
Masonite International Corporation

XX
Unit

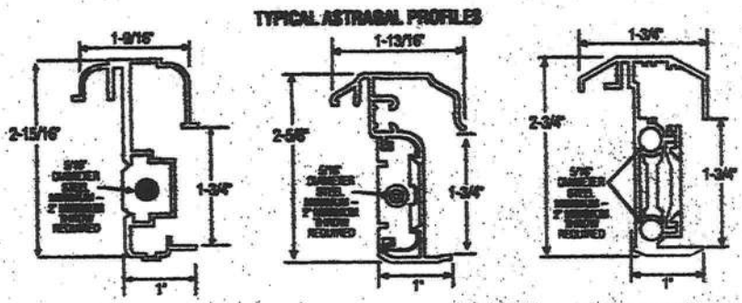
CAD-UI-MA0012-02

OUTSWING UNITS WITH DOUBLE DOOR

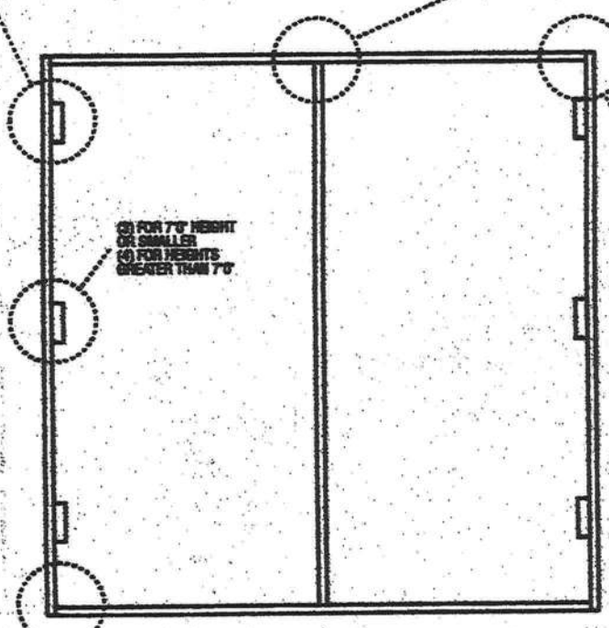
TYPICAL HINGE ATTACHMENT



TYPICAL ASTRAGAL PROFILES

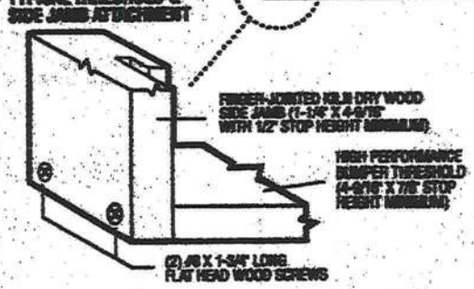


ALUMINUM EXTRUDED ASTRAGAL (.035" MINIMUM WALL THICKNESS) WITH ADDED REINFORCEMENT INSERTS AT TOP EXTENSION BOLT, BOTTOM EXTENSION BOLT AND CYLINDRICAL/DEADBOLT LATCHING LOCATIONS. ATTACH WITH #8 X 1" PAN HEAD SCREWS – LOCATE 1" FROM EACH END MINIMUM AND 22" O.C. MAXIMUM.



TYPICAL HEADER & SIDE JAMB ATTACHMENT

TYPICAL THRESHOLD & SIDE JAMB ATTACHMENT



March 29, 2002
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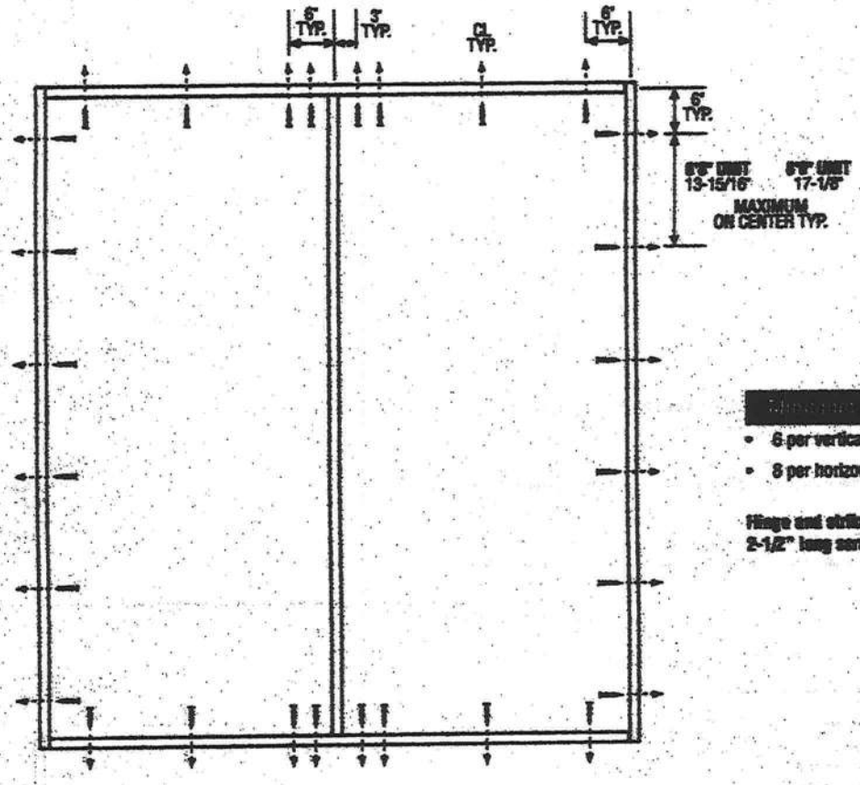
XX
Unit

[redacted]

DOUBLE DOOR



[redacted]

- 8 per vertical framing member
- 8 per horizontal framing member

Hinge and strike plates require two 2-1/2" long screws per location.

Latching Hardware:

- Compliance requires that GRADE 2 or better (ANSI/BHMA A156.2) cylinderical and deadlock hardware be installed.

Notes:

1. Anchor calculations have been carried out with the lowest (least) fastener rating from the different fasteners being considered for use. Fasteners analyzed for this unit include #8 and #10 wood screws or 3/16" Tapcons.
2. The wood screw single shear design values come from Table 11.3A of ANSI/AF & PA NDS for southern pine lumber with a side member thickness of 1-1/4" and achievement of minimum embedment. The 3/16" Tapcon single shear design values come from the ITW and ELCO Dade Country approvals respectively, each with minimum 1-1/4" embedment.
3. Wood bucks by others, must be anchored properly to transfer loads to the structure.

[redacted]

FRENDOR Collection Premium Quality Doors

Exclusively from Masonite®

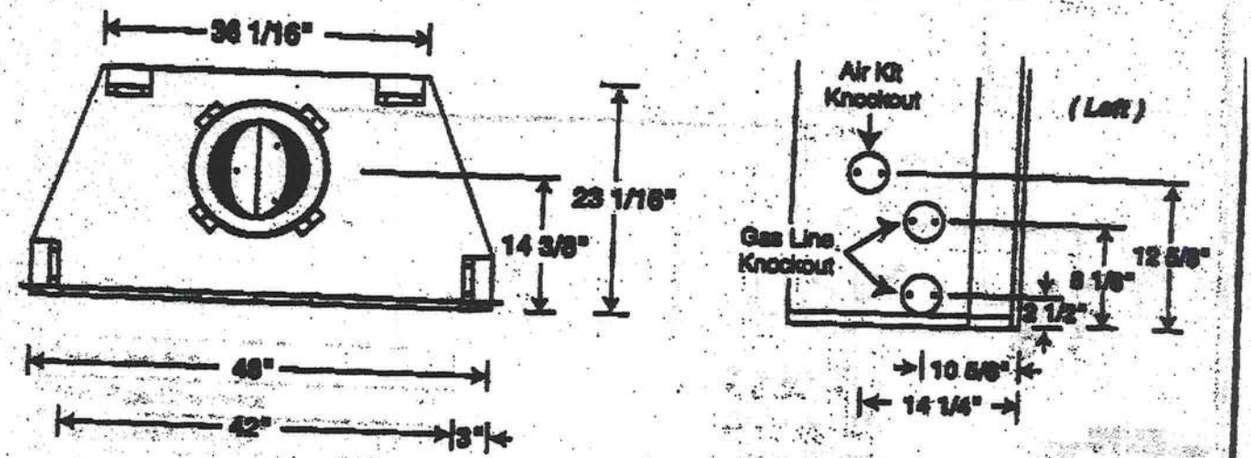
Masonite International Corporation

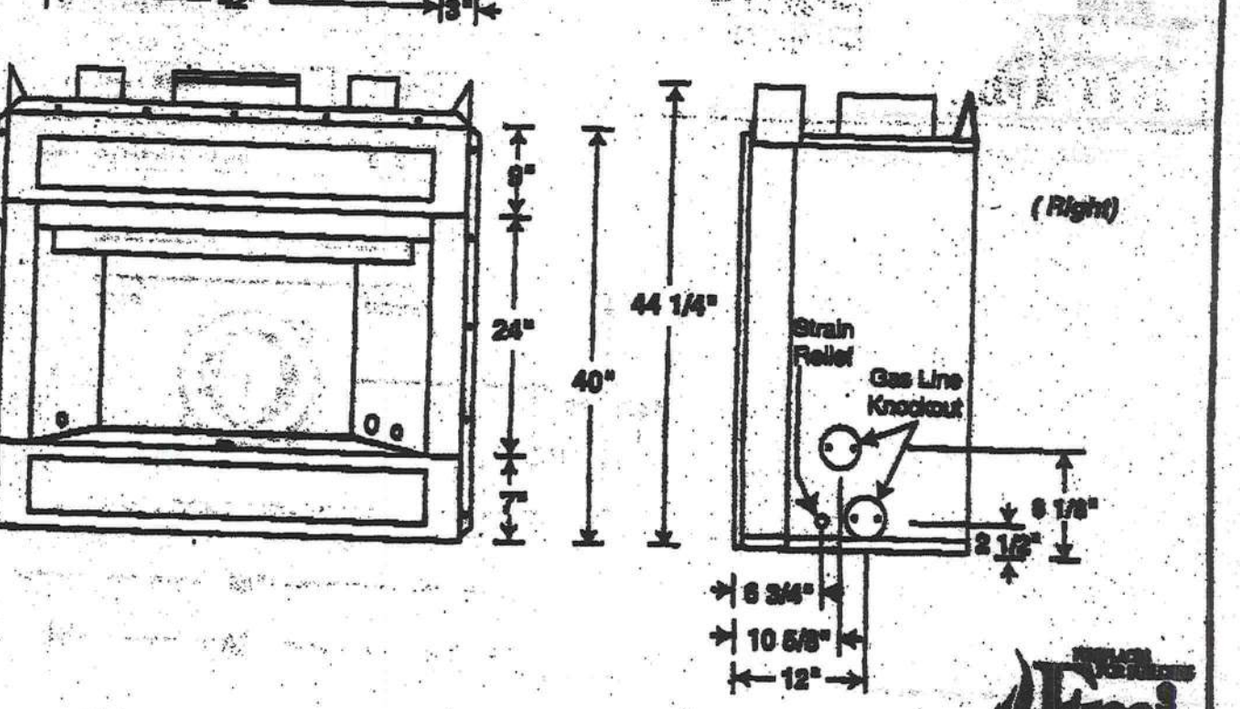
March 29, 2002

Craftsman

42" Woodburning Fireplace

Vent Pipe Size	10"
Min. Pipe Clearance	1"
Min. System Height	14' 6"
- w/ Single Offset	14' 6"
- w/ Two Offsets	22' 0"
Max. Dist. Between Elbows	6' 0"
Max. System Height	50' 0"



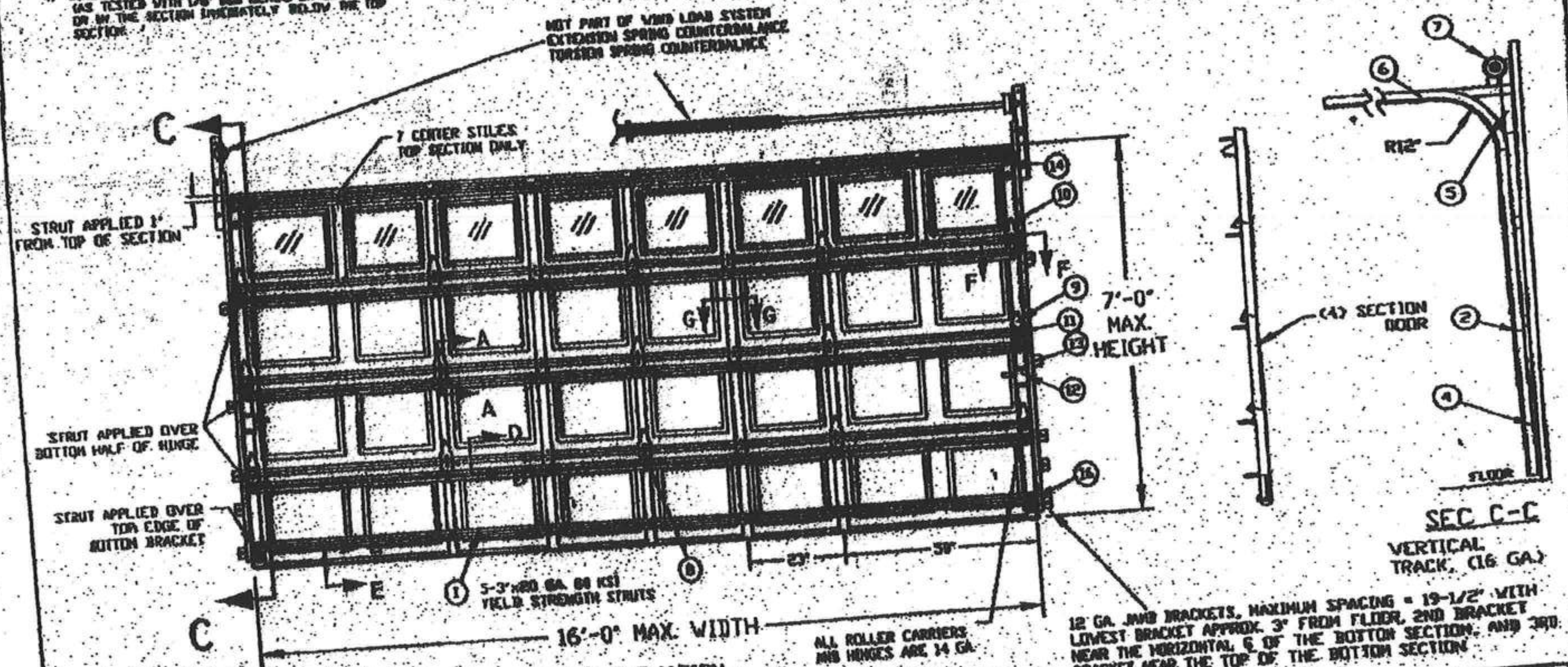


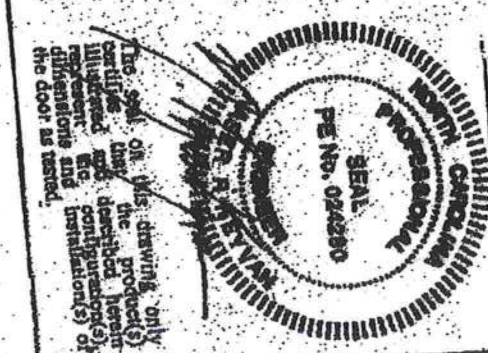
Fmi

REV.	DATE	BY	DESCRIPTION
A	11-10-00	DW	SEE E.C.P.

NOTES:

1. TESTED TO POSITIVE AND NEGATIVE 20 PSF DESIGN AND POSITIVE AND NEGATIVE 30 PSF TEST PRESSURES PER ASTM E-330
2. MAXIMUM SECTION HEIGHT= 21".
3. SECTION HEIGHTS OF 21.00" AND 19.50" ARE AVAILABLE AND MAY BE USED IN ANY COMBINATION TO ACHIEVE VARIOUS DOOR HEIGHTS.
4. WINDOWS MAY BE INSTALLED IN THE TOP SECTION (AS TESTED WITH 1/8" GLASS OR EQUIVALENT) OR IN THE SECTION IMMEDIATELY BELOW THE TOP SECTION.
5. MINIMUM LENGTH OF ROLLER STEM IS 5" (2" AS TESTED)
6. THE STRUT PLACEMENT ON DOOR MUST BE CONSISTENT WITH THE DOOR SHOWN.
7. STRUTS SECURED AT ALL LOCATIONS WITH TEK SCREWS.
8. QUANTITY OF SIDE LOCKS CAN BE 0,1, OR 2 AS TESTED.
9. DROP IN TYPE OF INSULATION IS OPTIONAL.





The seal on this drawing only certifies that the product(s) illustrated and described herein represent the configuration(s), dimensions and installation(s) of the door as tested.

LISTED

REPORT No. 2202

TEST REPORTS ON FILE VIDEO 10/19/00 000930

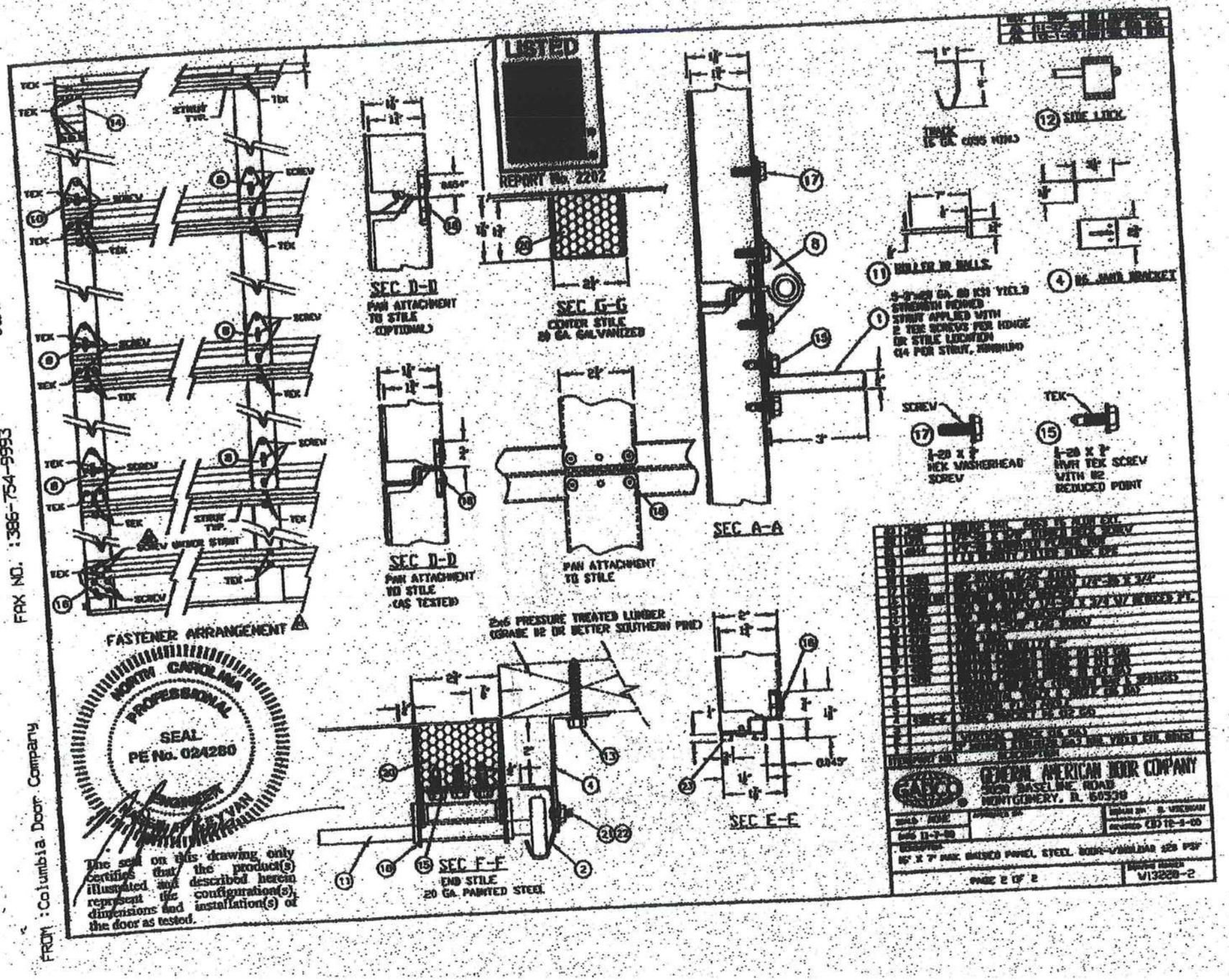
GABCO DOORS
SERIES 7400, EXTERIOR STEEL =.017 MIN (AS TESTED)
SERIES 7825, EXTERIOR STEEL =.019" MIN
SERIES 7524, EXTERIOR STEEL =.024" MIN
(TESTED WITH WINDOWS)

MAXIMUM DOOR WIDTH	MAXIMUM DOOR HEIGHT	TYPICAL CTR. STILE SPACING	STRUTS 80 KSI SIZE	STRUTS 80 KSI QTY.	VERTICAL TRACK
16'	7'	23"	3"	5	2 IN.

DESIGN LOAD +20.0 PSF & -20.0 PSF
TEST LOAD +30.0 PSF & -30.0 PSF

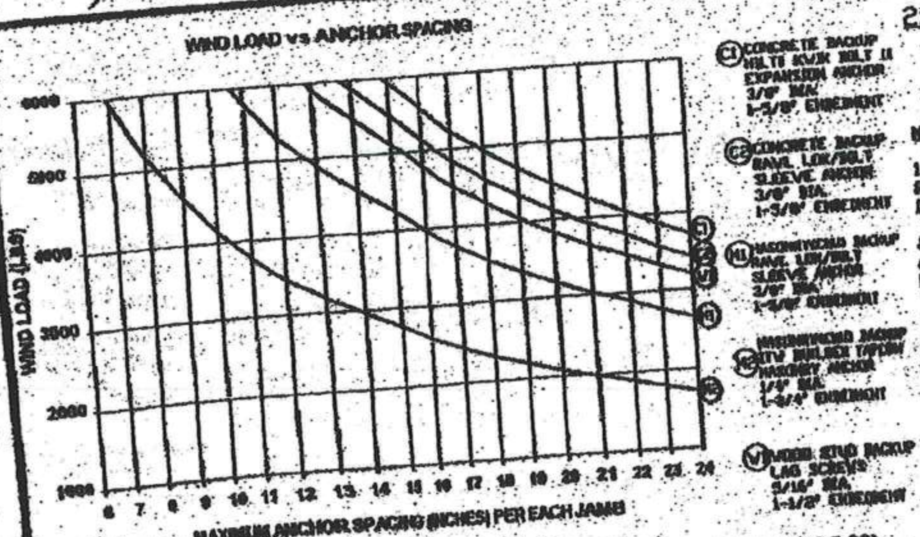
GENERAL AMERICAN DOOR COMPANY
5050 BASELINE ROAD
MONTGOMERY, IL 60538

DATE 10-20-00
REVISED (A) 11-10-00
16' X 7' MAX. RAISED PANEL STEEL DOOR -WINDLOAD ±20 PSF
PAGE 1 OF 2
DRAWING NUMBER W13220-1



The seal on this drawing only certifies that the product(s) illustrated and described herein represent the configuration(s), dimensions and installation(s) of the door as tested.

NORTH CAROLINA PROFESSIONAL SEAL PE No. 024280 ENGINEER STEVAN

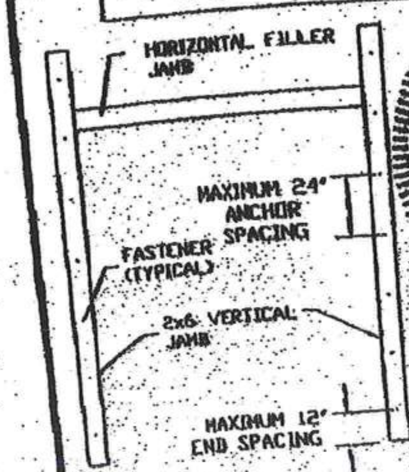


DESIGN LOAD $\frac{(LBS)}{FT^2}$ X GARAGE DOOR AREA(WIDTH-FT X HEIGHT-FT) = WIND LOAD(LBS)

EXAMPLE

$\frac{30 \text{ LBS}}{FT^2}$ X (16 FT WIDE X 8 FT HIGH) = 3840 LBS

C1 USE 22" SPACING — M1 USE 16" SPACING
C2 USE 21" SPACING — M2 USE 10" SPACING
V USE 19" SPACING — SEE NOTE 11 FOR ADDITIONAL REQUIRED 2X6 WOOD JAMB ANCHORS



NORTH CAROLINA PROFESSIONAL SEAL PE No. 024280 ENGINEER NASER R KEYVAN

NASER R KEYVAN LICENSE NO. 53774 STATE OF FLORIDA PROFESSIONAL ENGINEER

3/8/2002

2x6 JAMB TO SUPPORTING STRUCTURE ATTACHMENT

2x6 PRESSURE TREATED (GRADE #2 OR BETTER SOUTHERN PINE) WOOD JAMB SHALL BE ANCHORED TO BUILDING WOOD FRAME, GROUTED AND REINFORCED CONCRETE MASONRY UNIT (CMU) WALLS OR COLUMNS, OR REINFORCED CONCRETE COLUMNS.

NOTES:

1) ALL DOOR OPENING SURROUNDING STRUCTURE TO BE DESIGNED BY REGISTERED ENGINEER OR ARCHITECT WITH DUE CONSIDERATION GIVEN TO INSTALLATIONS USING CENTER "HURRICANE" POSTS.

2) ALL DOOR OPENING STRUCTURE AND FASTENERS TO COMPLY WITH ALL APPLICABLE CODES INCLUDING SBCCI "STANDARD FOR HURRICANE RESISTANT RESIDENTIAL CONSTRUCTION SSTD 10," CURRENT EDITION.

3) ALL FASTENERS TO BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS, INSTRUCTIONS AND RECOMMENDATIONS.

4) WOOD FRAME BUILDINGS: STUDS AT EACH SIDE OF DOOR OPENING SHALL BE PROPERLY DESIGNED, CONNECTED, ANCHORED AND SHALL CONSIST OF A MINIMUM OF THREE (3) LAMINATIONS OF 2X6 PRESSURE TREATED SOUTHERN PINE (#2 GRADE OR BETTER) WALL STUDS CONTINUOUS FROM FOOTING TO DOUBLE TOP PLATE.

5) REINFORCED CMU OR CONCRETE: 2X6 WOOD JAMB SHALL BE ANCHORED TO SOLIDLY GROUTED AND REINFORCED CONCRETE MASONRY UNIT (CMU) WALLS OR COLUMNS, OR REINFORCED CONCRETE COLUMNS. ANCHOR SPACING AND EMBEDMENT IS BASED ON CONCRETE MASONRY UNITS COMPLYING WITH ASTM C90 WITH A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 2150 PSI; GROUT WITH A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI; REINFORCED CONCRETE COLUMNS WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.

6) EMBEDMENTS LISTED ARE THE MINIMUM ALLOWABLE EMBEDMENTS.

7) ANCHORS FOR CONCRETE AND CONCRETE MASONRY UNITS (CMU) SHALL HAVE A MINIMUM 3" EDGE DISTANCE FROM ALL EDGES OF CONCRETE OR CONCRETE MASONRY UNITS. ANCHORS FOR CONCRETE AND CMU SHALL HAVE A MINIMUM SPACING OF 3-3/4".

8) LAG SCREWS SHALL BE CENTERED IN ONE OF THE 1-1/2" DIMENSION FACES OF THE TRIPLE 2X6 WALL STUDS.

9) WASHERS ARE REQUIRED ON ALL FASTENERS.

10) THE WIND LOAD VS. ANCHOR SPACING CHART IS FOR A MAXIMUM DOOR SIZE OF 18' X 8' AT A MAXIMUM 42 PSF DESIGN WIND LOAD.

11) FOR THE UPPER THREE INDIVIDUAL STEEL JAMB BRACKETS, BRACKETS SHALL BE CENTERED BETWEEN THE TWO CLOSEST 2X6 WOOD JAMB ANCHORS. IF THE STEEL JAMB BRACKET IS NOT CENTERED BETWEEN THE TWO CLOSEST 2X6 WOOD JAMB ANCHORS, ADD AN ADDITIONAL 2X6 WOOD JAMB ANCHOR NEAR THAT STEEL BRACKET TO INSURE THAT THE LOAD FROM THE STEEL BRACKET IS EQUALLY TRANSFERRED TO TWO WOOD JAMB ANCHORS.

GENERAL AMERICAN DOOR COMPANY
5050 BASELINE ROAD
MONTGOMERY, IL 60538

SCALE NONE	APPROVED BY	DRAWN BY DV
DATE 8-30-99		REVISED
DESCRIPTION JAMB TO STRUCTURE ATTACHMENT FOR WIND LOADED GARAGE DOORS		
	DRAWING NUMBER A10560	CHANGE NUMBER

ROOF / CEILING FRAMING PLAN

SCALE: 1/4" = 1'-0"

23907

ROOF = 16 LB LIVE LOAD
20 LB DEAD LOAD

LLG = 10 LB LIVE LOAD
10 LB DEAD LOAD

FEB 15, 2006

ANTHONY &
CARMAN MIKULIC
RESIDENCE

ADDRESS:
364SW Pine Ridge Court
Lake City, FL 32024

Mark Disosway P.E.
P.O. Box 868
Lake City, Florida 32026
Phone: (386) 754 - 5419
Fax: (386) 269 - 4871
windloadengineer@bellsouth.net

PRINTED DATE:
January 31, 2006

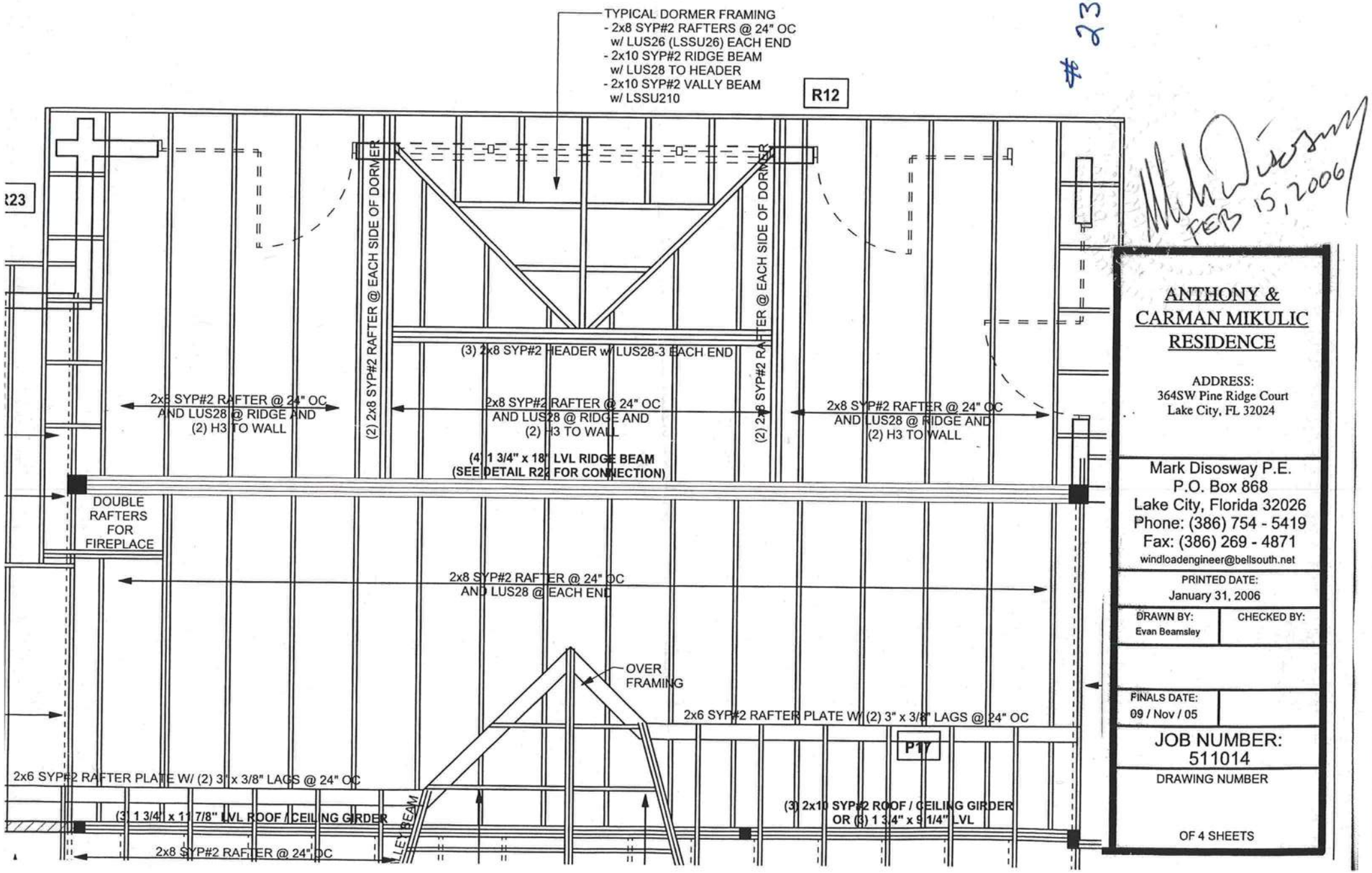
DRAWN BY:	CHECKED BY:
Evan Beamsley	

FINALS DATE:	
09 / Nov / 05	

JOB NUMBER:
511014

DRAWING NUMBER

OF 4 SHEETS



23907

Mark Disosway FEB 15, 2006

ANTHONY & CARMAN MIKULIC RESIDENCE

ADDRESS:
364SW Pine Ridge Court
Lake City, FL 32024

Mark Disosway P.E.
P.O. Box 868
Lake City, Florida 32026
Phone: (386) 754 - 5419
Fax: (386) 269 - 4871
windloadengineer@bellsouth.net

PRINTED DATE:
January 31, 2006

DRAWN BY:	CHECKED BY:
Evan Beamsley	

FINALS DATE:
09 / Nov / 05

JOB NUMBER:
511014

DRAWING NUMBER

OF 4 SHEETS

CERTIFICATE OF OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

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

Parcel Number 12-5S-15-00447-202 **Building permit No.** 000023907

Use Classification SFD,UTILITY **Fire:** 11.84

Permit Holder OWNER BUILDER **Waste:** 24.50

Owner of Building ANTHONY & CARMEN MIKULIC **Total:** 36.34

Location: 364 SW PINE RIDGE COURT, LAKE CITY,FL

Date: 08/24/2006

Harry Dicks

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)