Columbia County Building Permit Application

Left Message 3-16-06 LH

Revised 9-23-04

For Office Use Only Application # 0602-101 Date Received 2/28/06 By GT Permit # 24275

Application Approved by - Zoning Official BLK Date 03-03-06 Plans Examiner OKJTH Date 3-7-06

Flood Zone X Development Permit N/A Zoning RSF-1 Land Use Plan Map Category Res. U.L. Den.

Comments

Applicants Name Kevin Bodenbaugh Phone 386-935-5588

Address PO Box 1414 Live Oak, FL 32064

Owners Name Charles Parrish Phone 719-7300

911 Address 433 SW Brodleerk Lane Lake City, FL

Contractors Name Plumb Level construction Phone 386-988-5588

Address PO Box 1414 Live Oak, FL 32064

Fee Simple Owner Name & Address

Bonding Co. Name & Address

Architect/Engineer Name & Address John K. Gentry 114-B West Green Street, Perry, FL 32

Mortgage Lenders Name & Address

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

Property ID Number R08466-118 Estimated Cost of Construction $20,000

Subdivision Name Saddle of the South Lot 18 Block Unit Phase

Driving Directions 47 South to Brodleerk Lane, Turn (R). About the 5th house on Right 433 on house & mail box. 4th lot on right Across from Chuck Rd.

Type of Construction Addition to SFD Number of Existing Dwellings on Property 1

Total Acreage 1.09 Lot Size Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 35 ✓ Side 30 ✓ Side 30 ✓ Rear 50 ✓

Total Building Height 13' Number of Stories 1 Heated Floor Area 320 Roof Pitch 4/12

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

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

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF 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.

Kevin Bodenbaugh

Owner Builder or Agent (Including Contractor)

Contractor Signature

Contractors License Number RB0066597

Competency Card Number

STATE OF FLORIDA
COUNTY OF COLUMBIA

GALE TEDDER
MY COMMISSION # DD 338886
EXPIRES: June 28, 2008
Bonded Thru Notary Public Underwriters

NOTARY STAMP/SEAL

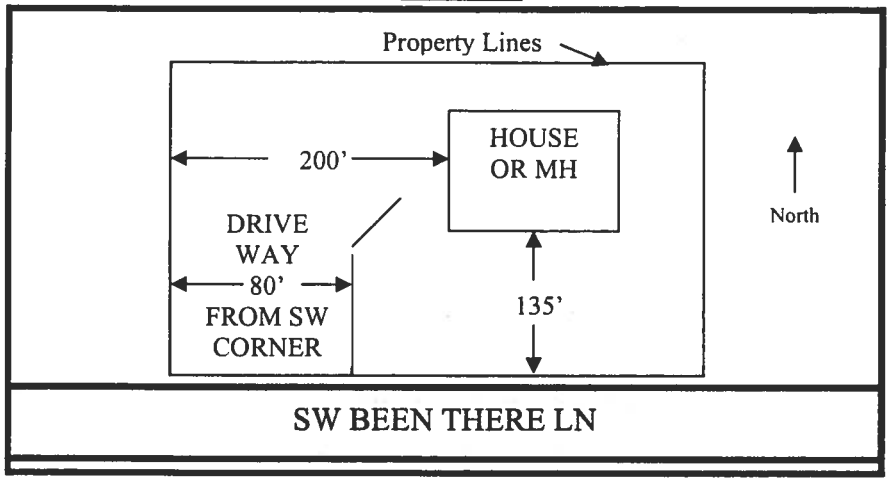
Sworn to (or affirmed) and subscribed before me this 28th day of February 2006.

Personally known ✓ or Produced Identification

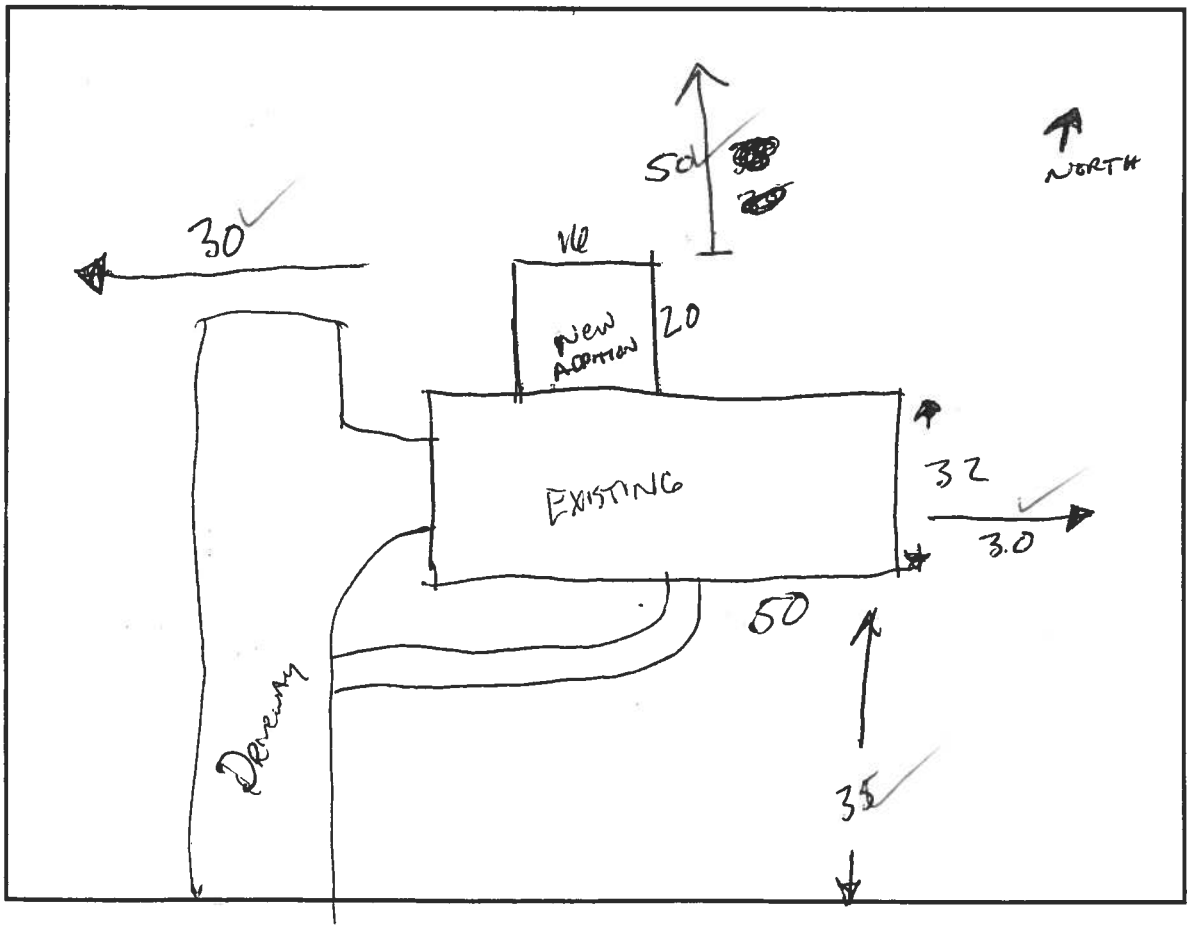
Notary Signature

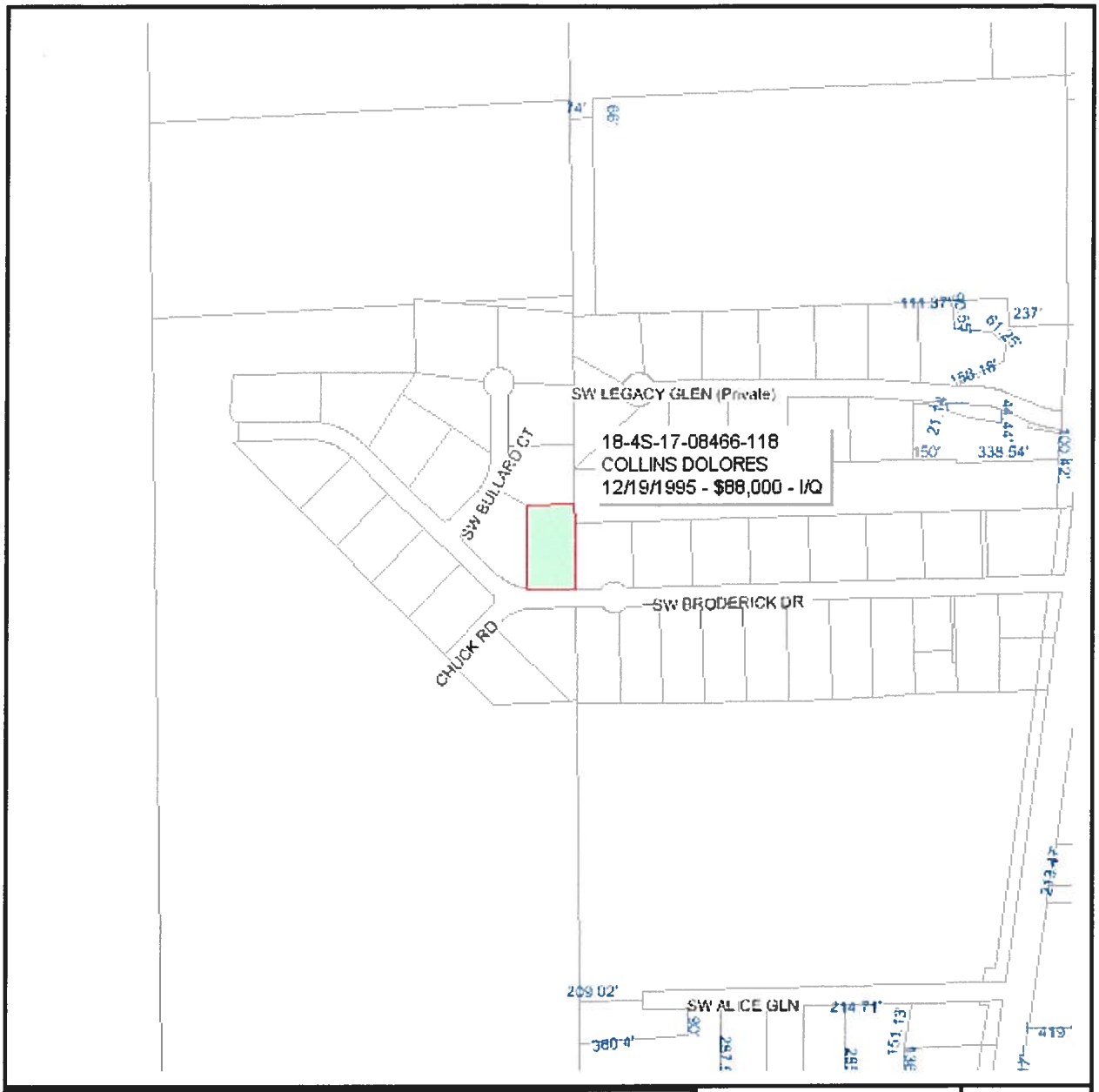
1. A PLAT, PLAN, OR DRAWING SHOWING THE PROPERTY LINES OF THE PARCEL.
2. LOCATION OF PLANNED RESIDENT OR BUSINESS STRUCTURE ON THE PROPERTY WITH DISTANCES FROM AT LEAST TWO OF THE PROPERTY LINES TO THE STRUCTURE (SEE SAMPLE BELOW).
3. LOCATION OF THE ACCESS POINT (DRIVEWAY, ETC.) ON THE ROADWAY FROM WHICH LOCATION IS TO BE ADDRESSED WITH A DISTANCE FROM A PARALLEL PROPERTY LINE AND OR PROPERTY CORNER (SEE SAMPLE BELOW).
4. TRAVEL OF THE DRIVEWAY FROM THE ACCESS POINT TO THE STRUCTURE (SEE SAMPLE BELOW).

SAMPLE:



SITE PLAN BOX:





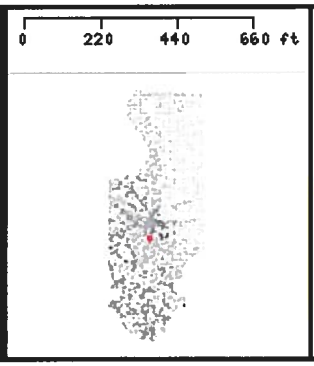
Columbia County Property Appraiser

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

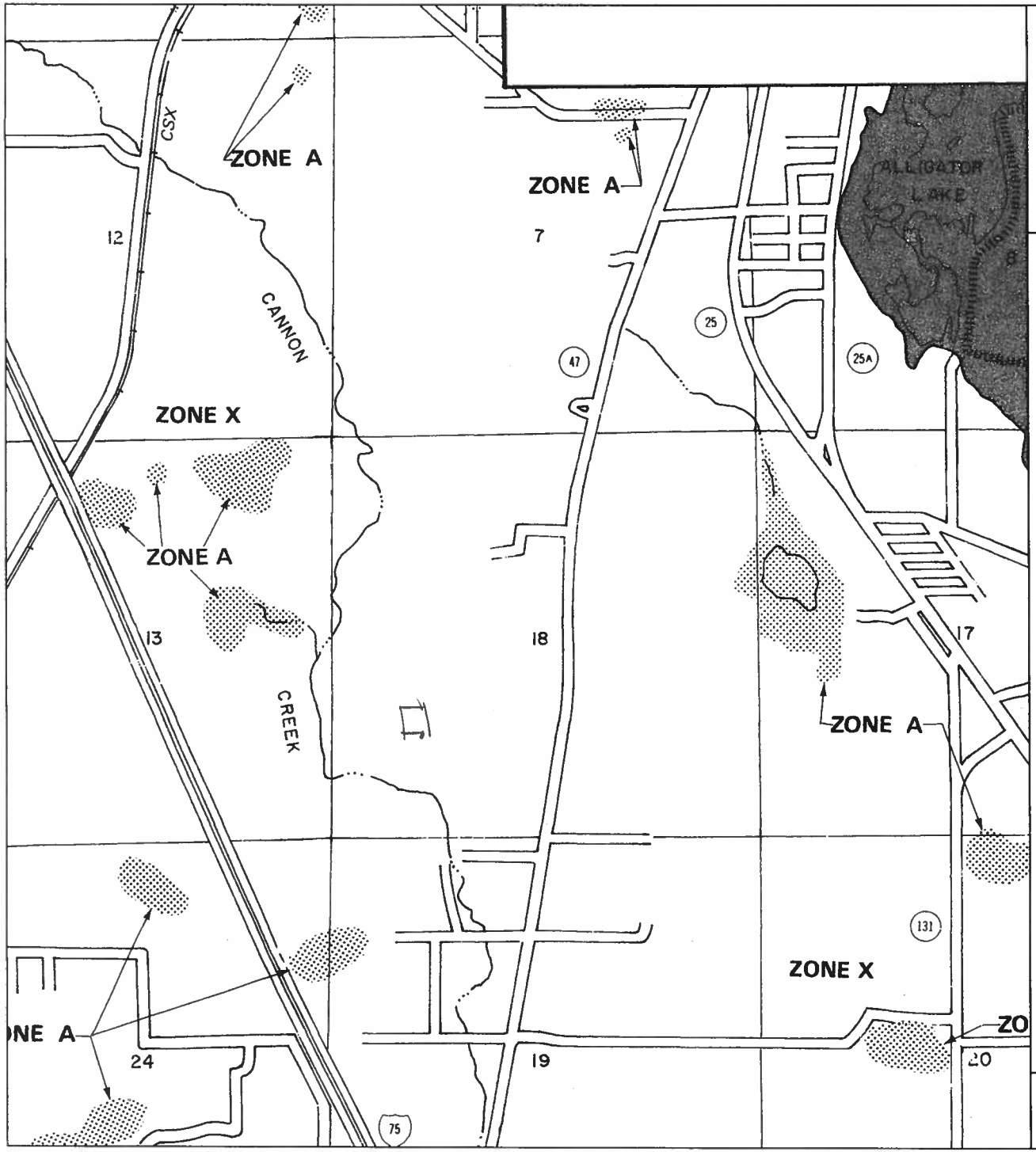
PARCEL: 18-4S-17-08466-118 - SINGLE FAM (000100)

LOT 18 SADDLE OF THE SOUTH ESTATES S/D. ORB 751-2137, 802-1441, 803-1024, 815-1261,

Name:	PARRISH CHARLES & BARBARA J	LandVal	$20,000.00
Site:	BRODERICK	BldgVal	$116,318.00
Mail:	3410 BENSON CT MIMS, FL 32754	ApprVal	$142,424.00
		JustVal	$142,424.00
Sales Info	2/14/2005 $149,500.00 I / Q 12/19/1995 $88,000.00 I / Q 3/21/1995 $6,000.00V / U	Assd	$142,424.00
		Exmpt	$0.00
		Taxable	$142,424.00



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

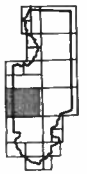
FIRM

FLOOD INSURANCE RATE MAP

COLUMBIA COUNTY, FLORIDA
(UNINCORPORATED AREAS)

PANEL 175 OF 290

PANEL LOCATION



COMMUNITY-PANEL NUMBER
120070 0175 B

EFFECTIVE DATE:
JANUARY 6, 1988

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using 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: 3/7/2006 (printed at scale and type A)

FS 713.13

Return to: (enclose self-addressed stamped envelope

Name:

Address:

This Instrument Prepared by:

Name:

Address:

Property Appraisers Parcel Identification

Inst:2006004825 Date:02/28/2006 Time:14:31
DC,P.DeWitt Cason,Columbia County B:1075 P:1289

SPACE ABOVE THIS LINE FOR PROCESSING DATA

SPACE ABOVE THIS LINE FOR RECORDING DATA

NOTICE OF COMMENCEMENT

Permit No._____

Tax Folio No. R08466-1

State of Florida _____
County of Columbia }

The undersigned hereby gives notice that improvements will be made to certain real property, and in accordance with chapter 713 of the Florida Statutes, the following information is provided in this NOTICE OF COMMENCEMENT.

Legal description of property (include Street Address, if available) N/A

General description of improvements ADDITION

Owner's Name Charles Parrish

Address 433 SW Broderick Lane, Lake City FL 32025

Owner's Interest in site of the improvement 100%

Fee Simple Title holder (if other than owner) N/A

Address _____ Phone: _____ Fax: _____

Contractor Plumb Level Construction

Address Po Box 1416 Live Oak FL 32064 Phone: 938-5558 Fax: _____

Surety N/A Phone: _____ Fax: _____

Address _____ Amount of bond $ _____

Lender's Name N/A

Address: _____ Phone: _____ Fax: _____

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

Name Kevin Bedenbaugh

Address Po 1416 Live Oak FL 32064 Phone: 386 938-5588 Fax: _____

In addition to himself, owner designates N/A

Of _____ Phone: _____ Fax: _____

to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes.

Expiration date of Notice of Commencement (the expiration date is 1 year from the date of recording unless a different date is specified)

Kevin Bedenbaugh
Signature of Owner

Kevin Bedenbaugh
Printed Name of Owner

NOTARY RUBBER STAMP SEAL

ROSE ANN AIELLO
MY COMMISSION # DD397594
EXPIRES: February 17, 2009
1-800-3-NOTARY FL Notary Discount Assoc. Co.

I have relied upon the following identification of the Affiant FL DL

Sworn to and subscribed before me this 28 day of February 2006

Rose Ann Aiello
Notary Signature

Rose Ann Aiello
Printed Name

OForm Design, Seminole Paper & Printing Co., Inc., 1994

10
01
96

Inst:2005019702 Date:08/15/2005 Time:13:57
Doc Stamp-Deed : 1046.50
DC,P.DeWitt Cason,Columbia County B:1055 P:213

1061

Prepared by and Return to:
Virlyn Willis
Gateway Title Agency, LLC
4255 SW Cambridge Glen
Lake City, Florida 32024
File Number: 31731GW
Parcel I.D. Number: R08466-118
Incidental to the issuance of a Title Insurance Policy

RETURN TO:
KEYSTONE TITLE AGENCY, INC.
9735 U.S. Hwy. 19
Port Richey, FL 34668

General Warranty Deed

Made this February 14, 2005 A.D. By **Dolores Collins a single person**, whose address is: **2023 St. Lucie Blvd. Lot 172, Ft. Pierce, FL 34946** hereinafter called the grantor, to **Charles Parrish and Barbara J. Parrish, husband and wife**, whose post office address is: **3410 Benson Ct, Mims, FL 32754**, hereinafter called the grantee:

(Whenever used herein the term "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)

Witnesseth, that the grantor, for and in consideration of the sum of **One Hundred Forty Nine Thousand Five Hundred dollars & no cents, ($149,500.00)** and other valuable considerations, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, aliens, remises, releases, conveys and confirms unto the grantee, all that certain land situate in Columbia County, Florida, viz:

Lot 18, of Saddle of the South Estates, according to the Plat thereof, as recorded in Plat Book 6, at Page 64, of the Public Records of Columbia County, Florida.

Subject to covenants, conditions, restrictions, reservations, limitations, easements and agreements of record, if any; taxes and assessments for the year 2005 and subsequent years; and to all applicable zoning ordinances and/or restrictions and prohibitions imposed by governmental authorities, if any

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 grantor hereby covenants with said grantee that the grantor is lawfully seized of said land in fee simple; that the grantor has good right and lawful authority to sell and convey said land; that the grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever.

In Witness Whereof, the said grantor has signed and sealed these presents the day and year first above written.

Signed, sealed and delivered in our presence:

REQUIRES TWO DIFFERENT WITNESSES

Witness #1 signature

VIRLYN B. WILLIS JR
Print Witness #1 name

Witness #2 signature

Owen Holiday
Print Witness #2 name

Dolores Collins (Seal)
Dolores Collins

(Seal)

State of Florida
County of Columbia

The foregoing instrument was acknowledged before me this February 14, 2005, by **Dolores Collins a single person**, who has produced a drivers license as identification.

Notary Seal

Notary Public
my commission expires:

VIRLYN B. WILLIS, JR.
MY COMMISSION # DD 372495
EXPIRES: November 16, 2008
Bonded Thru Notary Public Underwriters

Closer's Choice Individual Warranty Deed

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

FORM 600B-01 — **Residential Component Prescriptive Method B** — **NORTH 1 2 3**

Compliance with Method B Chapter 6 of the Florida Energy Efficiency Code may be demonstrated by the use of Form 600B for single and multifamily residences of 3 stories or less in height, and additions to existing residential buildings. To comply, a building must meet or exceed all of the energy efficiency prescriptives in any one of the prescriptive component packages and comply with the prescriptive measures listed in Table 6B-1 of this form. An alternative method is provided for additions of 600 square feet or less by use of Form 600C. If a building does not comply with this method, it may still comply under other sections in Chapter 6 of the Code.

PROJECT NAME:	PARISH	**BUILDER:**	Plumb Level construction
AND ADDRESS:	433 SW Brookerick Court Lake City, FL	**PERMITTING OFFICE:**	Columbia
		CLIMATE ZONE:	1 ☐ 2 ☐ 3 ☐
OWNER:	Charles Parish	**PERMIT NO.:**	24275
		JURISDICTION NO.:	221000

GENERAL DIRECTIONS

1. New construction including additions which incorporates any of the following features cannot comply using this method: steel stud walls, single assembly roof/ceiling construction, or skylights or other non-vertical roof glass.
2. Choose one of the component packages "A" through "E" fromTable 6B-1 by which you intend to comply with the Code. Circle the column of the package you have chosen.
3. Fill in all the applicable spaces of the "To Be Installed" column on Table 6B-1 with the information requested. All "To Be Installed" values must be equal to or more efficient than the required levels.
4. Complete page 1 based on the "To Be Installed" column information.
5. Read "Minimum Requirements for All Packages", Table 6B-2 and check each box to indicate your intent to comply with all applicable items.
6. Read, sign and date the "Prepared By" certification statement at the bottom of page 1. The owner or owner's agent must also sign and date the form.

	Please Print	CK
1. Compliance package chosen (A-F)	C	
2. New construction or addition	ADDITION	
3. Single family detached or Multifamily attached	SF	
4. If Multifamily—No. of units covered by this submission	—	
5. Is this a worst case? (yes / no)		
6. Conditioned floor area (sq. ft.)	320	
7. Predominant eave overhang (ft.)	2	
8. Glass type and area :	Single Pane / Double Pane	
a. Clear glass	8a. _____ sq. ft. / 64.95 sq. ft.	
b. Tint, film or solar screen	8b. _____ sq. ft. / _____ sq. ft.	
9. Percentage of glass to floor area	9. 20 %	
10. Floor type, area or perimeter, and insulation:		
a. Slab on grade (R-value)	10a. R= 0 / 56 lin. ft.	
b. Wood, raised (R-value)	10b. R= _____ / _____ sq. ft.	
c. Wood, common (R-value)	10c. R= _____ / _____ sq. ft.	
d. Concrete, raised (R-value)	10d. R= _____ / _____ sq. ft.	
e. Concrete, common (R-value)	10e. R= _____ / _____ sq. ft.	
11. Wall type, area and insulation:		
a. Exterior: 1. Masonry (Insulation R-value)	11a-1 R= _____ / _____ sq. ft.	
2. Wood frame (Insulation R-value)	11a-2 R= 13 / 383 sq. ft.	
b. Adjacent: 1. Masonry (Insulation R-value)	11b-1 R= _____ / _____ sq. ft.	
2. Wood frame (Insulation R-value)	11b-2 R= _____ / _____ sq. ft.	
12. Ceiling type, area and insulation:		
a. Under attic (Insulation R-value)	12a. R= 30 / 320 sq. ft.	
b. Single assembly (Insulation R-value)	12b. R= _____ / _____ sq. ft.	
13. Air Distribution System: Duct insulation, location	13. R= _____ / _____	
Test report (attach if required)		
14. Cooling system	14a. Type: Central	
(Types: central, room unit, package terminal A.C., gas, none)	14b. SEER/EER: 10.5 +	
	14c. Capacity: _____	
15. Heating system:	15a. Type: Heat Pump	
(Types: heat pump, elec. strip, nat. gas, L.P. gas, gas h.p., room or PTAC, none)	15b. HSPF/COP/AFUE:	
	15c. Capacity: 7.4 +	
16. Hot water system:	16a. Type: ELEC.	
(Types: elec., nat. gas, L.P. gas, solar, heat rec., ded. heat pump, other, none)	16b. EF: .91 +	

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

PREPARED BY: KEVIN BEDINGFIELD **DATE:** 2-28-06

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

OWNER AGENT: _____ **DATE** _____

Review of 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 in accordance with Section 553.908, F.S.

BUILDING OFFICIAL: _____

DATE: _____

COLUMBIA COUNTY BUILDING DEPARTMENT

RESIDENTIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST FOR FLORIDA BUILDING CODE 2001 ONE (1) AND TWO (2) FAMILY DWELLINGS

ALL REQUIREMENTS ARE SUBJECT TO CHANGE
EFFECTIVE MARCH 1, 2002

ALL BUILDING PLANS MUST INDICATE THE FOLLOWING ITEMS AND INDICATE COMPLIANCE WITH CHAPTER 1606 OF THE FLORIDA BUILDING CODE 2001 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 1606 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 104.2.1). 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** a) Plans or specifications must state compliance with FBC Section 1606 b) The following information must be shown as per section 1606.1.7 FBC a. Basic wind speed (MPH) b. Wind importance factor (I) and building category c. Wind exposure – if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated d. The applicable internal pressure coefficient e. Components and Cladding. The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component and cladding materials not specifically 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
- c) Windows and doors (including garage doors) showing size, mfg., approval listing and attachment specs. (FBC 1707) and safety glazing where needed (egress windows in bedrooms to be shown)
- d) Fireplaces (gas appliance) (vented or non-vented) or wood burning with hearth
- e) Stairs with dimensions (width, tread and riser) and details of guardrails and handrails
- f) 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 104.2.1 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 104.2.1 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 104.2.1 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 (termicide or alternative method)
  10. Slab on grade
      a. Vapor retardant (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 (FBC104.2.1 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 (termicide or alternative method)
11. Slab on grade
    a. Vapor retardant (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

HVAC information

☐ a) Manual J sizing equipment or equivalent computation

☐ b) Exhaust fans in bathroom

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

☐ ☐ **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.

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

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:

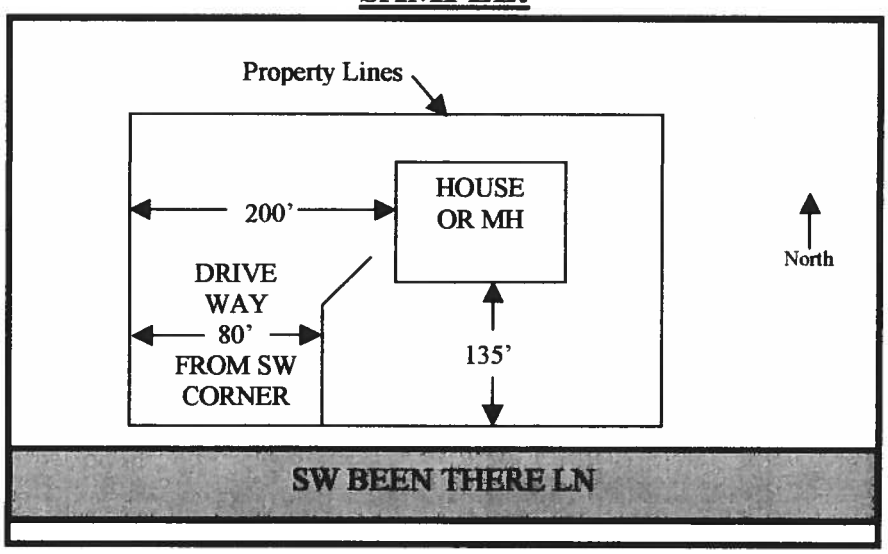
YOU CAN NOT OBTAIN A NEW ADDRESS OVER THE TELEPHONE. MUST MAKE AN APPOINTMENT!

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.

Architectural Testing

AAMA/NWWDA 101/I.S.2-97
TEST REPORT SUMMARY

Rendered to:

MI HOME PRODUCTS, INC.

SERIES/MODEL: 450/650
TYPE: Aluminum Single Hung Window
RATING: H-C30 54 x 90; H-C45 52 x 72*

Title of Test	Results	
	Test Specimen #1	Test Specimen #2
Overall Design Pressure	30 psf	47 psf
Operating Force	20 lb max.	N/A
Air Infiltration	0.27 cfm/ft^2	N/A
Water Resistance	5.25 psf	6.0 psf
Structural Test Pressure	±45.0 psf	±70.5 psf
Deglazing	Passed	N/A
Forced Entry Resistance	Grade 10	N/A

Reference should be made to Report No. 01-37589.01 for complete test specimen description and data.

For ARCHITECTURAL TESTING, INC.

Adam A. Fodor, Technician

AAF:tjp

130 Derry Court
York, PA 17402-9405
phone: 717.764.7700
fax: 717.764.4129
www.testati.com

Architectural Testing

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

Rendered to:

MI HOME PRODUCTS, INCORPORATED
650 West Market Street
Gratz, Pennsylvania 17030-0370

Report No: 01-37589.01
Test Date: 06/29/00
Report Date: 09/11/00
Expiration Date: 06/29/04

Project Summary: Architectural Testing, Inc. (ATI) was contracted to witness tests on a Series/Model 450, aluminum single hung window at the MI Home Products in-plant test facility in Elizabethville, Pennsylvania. The samples tested successfully met the performance requirements for the following ratings: Test Specimen #1 H-C30 54 x 90; Test Specimen #2 H-C40 52 x 72*. Test specimen descriptions and results are reported herein.

General Note: An asterisk (*) next to the performance grade indicates that the size tested for optional performance was smaller than the minimum test size for the product type and class.

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

Test Specimen Description

Series/Model: 450

Type: Aluminum Single Hung Window

Test Specimen #1 H-C30 54 x 90

Overall Size: 4' 6-1/2" wide by 7' 6-1/2" high

Sash Size: 4' 4" wide by 3' 9-3/4" high

Fixed Daylight Opening Size: 4' 1-1/2" wide by 3' 6-1/2" high

Screen Size: 4' 2-1/4" wide by 3' 8-1/2" high

130 Derry Court
York, PA 17402-9405
phone: 717.764.7700
fax: 717.764.4129
www.testati.com

Test Specimen Description: (Continued)

Test Specimen #2: H-C40 52 x 72*

Overall Size: 4' 4-1/4" wide by 6' 0" high

Sash Size: 4' 2" wide by 3' 0-1/2" high

Fixed Daylight Opening Size: 3' 11-1/2" wide by 2' 9-1/2" high

Screen Size: 4' 0" wide by 2' 11" high

The following descriptions apply to all specimens.

Finish: All aluminum was painted.

Glazing Details: The lites utilized 5/8" thick sealed insulating glass units fabricated from two sheets of 3/32" thick clear annealed glass and an Intercept™ spacer system. The sash was channel glazed with a flexible gasket. The fixed lite was interior glazed onto single-sided adhesive foam tape and secured with extruded PVC glazing beads.

Weatherstripping:

Description	Quantity	Location
0.210" high by 0.270" backed polypile with center fin	Row	Fixed meeting rail
0.250" high by 0.187" backed polypile with center fin	2 Rows	Stiles
0.300" diameter by 0.187" backed foam-filled vinyl bulb gasket	Row	Bottom rail
0.400' high by 1/2" square polypile dust plug	4	One on each sash corner

Frame Construction: The main frame was constructed of thermally-broken extruded aluminum members with coped, butted and sealed corners. The fixed meeting rail was constructed of an extruded aluminum member with coped, butted and sealed ends fastened with two screws each.

Test Specimen Description: (Continued)

Sash Construction: The sash members were constructed of thermally-broken extruded aluminum members with coped, butted and sealed corners fastened with one screw each.

Screen Construction: The screen was constructed of rolled aluminum members with plastic keyed corners. The fiberglass mesh was secured with a flexible spline.

Hardware:

Description	Quantity	Location
Plastic snap latch	1	Midspan of bottom rail
Block and tackle balance system	2	One per jamb
Plastic tilt latch	2	One on each end of sash meeting rail
Metal pivot bar	2	One on each end of bottom rail

Drainage: Sloped sill

Reinforcement: No reinforcement was utilized.

Installation: The test unit was installed into the nominal 2" x 8" Spruce-Pine-Fir #2 wood test buck utilizing the integral nailing fin secured with 1" long galvanized roofing nails, 6" from each corner and every 18" on center. The nailing fin was also bedded in polyurethane. The exterior perimeter was blindstopped with wood members and secured with #8 x 3" screws every 24" on center.

Test Results:

The results are tabulated as follows:

Paragraph	Title of Test - Test Method	Results	Allowed
Test Specimen #1: H-C30 54 x 90			
2.2.1.6.1	Operating Force	20 lbs	45 lbs max.
	Air Infiltration per ASTM E 283 (See Note #1) @ 1.57 psf (25 mph)	0.27 cfm/ft^2	0.3 cfm/ft^2 max.
	Water Resistance per ASTM E 547 (with and without screen) WTP = 4.5 psf	No leakage	No leakage
2.1.4.2	Uniform Load Structural per ASTM E 330 (Measurements reported were taken on the fixed meeting rail)		
	@ 45.0 psf (exterior)	0.03"	0.22" max.
	@ 45.0 psf (interior)	0.04"	0.22" max.
2.2.1.6.2	Deglazing Test per ASTM E 987 In operating direction at 70 lbs		
	Meeting rail	0.06"/12%	0.50"/100%
	Bottom rail	0.06"/12%	0.50"/100%
	In remaining direction at 50 lbs		
	Left stile	0.06"/12%	0.50"/100%
	Right stile	0.06"/12%	0.50"/100%
	Forced Entry Resistance per ASTM F 588-97		
	Type: A Grade: 10		
	Lock Manipulation Test	No entry	No entry
	Test A1 through A5	No entry	No entry
	Test A7	No entry	No entry
	Lock Manipulation Test	No entry	No entry

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

Test Results:

Paragraph	Title of Test - Test Method	Results	Allowed
Test Specimen #1: (Continued)			
Optional Performance			
4.3	Water Resistance per ASTM E 547 (with and without screen) WTP = 5.25 psf	No leakage	No leakage
Test Specimen #2: H-C40 52 X 72*			
Optional Performance			
4.3	Water Resistance per ASTM E 547 and 331 (with and without screen) WTP – 6.0 psf	No leakage	No leakage
4.4.2	Uniform Load Structural per ASTM E 330 (Measurements reported were taken on the fixed meeting rail) (Loads held for 33 seconds) @ 47.0 psf (exterior) @ 47.0 psf (interior)	 0.04" 0.03"	 N/A N/A
	(Loads held for 10 seconds) @ 70.5 psf (exterior) @ 70.5 psf (interior)	 0.07" 0.04"	 0.21" max. 0.21" max.

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.

For ARCHITECTURAL TESTING, INC:

Adam A. Fodor
Technician

Bruce W. Croak
Director – Product/Physical Testing

AAF:
01-37589.01

AAMA/NWWDA 101/I.S.2-97
TEST REPORT SUMMARY

Rendered to:

MI HOME PRODUCTS, INC.

SERIES/MODEL: 450/480/650/680
TYPE: Aluminum Fixed Window
RATING: F-C80 72 x 96

Title of Test	Results
Overall Design Pressure	80 psf
Air Infiltration	<0.01 cfm/ft^2
Water Resistance	12.0 psf
Structural Test Pressure	±120.0 psf
Forced Entry Resistance	Grade 10

Reference should be made to Report No. 01-38781.01 for complete test specimen description and data.

For ARCHITECTURAL TESTING, INC.

Adam Fodor, Technician

AF:tjp

Architectural Testing

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

Rendered to

MI HOME PRODUCTS, INC.
650 West Market Street
Gratz, Pennsylvania 17030-0370

Report No: 01-38781.01
Test Date: 01/23/01
Report Date: 02/22/01
Expiration Date: 01/23/05

Project Summary: Architectural Testing, Inc. (ATI) was contracted to witness tests on a Series/Model 450/480/650/680, aluminum fixed window at the MI Home Products, Inc. in-plant test facility in Elizabethville, Pennsylvania. The sample tested successfully met the performance requirements for an F-C80 72 x96 rating. Test specimen description and results are reported herein.

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

Test Specimen Description:

Series/Model: 450/480/650/680

Type: Aluminum Fixed Window

Overall Size: 6' 0-1/4" wide by 8' 0" high

Fixed Daylight Opening Size: 5' 9-1/2" wide by 7' 9-1/2" high

Finish: All aluminum was painted.

Glazing Details: The window utilized a 7/8" thick sealed insulating glass unit fabricated from two sheets of 3/16" thick, clear, tempered glass and a spacer system. The lite was interior glazed onto silicone bedding and dual-sided adhesive foam tape, while secured with aluminum snap-fit glazing beads and polypile weatherstrip.

130 Derry Court
York, PA 17402-9405
phone: 717.764.7700
fax: 717.764.4129
www.testati.com

Test Specimen Description: (Continued)

Frame Construction: The frame was constructed of thermally broken extruded aluminum members with coped, butted and sealed corners fastened with two screws each.

Drainage: No fabricated drainage was utilized.

Reinforcement: No reinforcement was utilized.

Installation: The test unit was installed into the 2" x 8" Spruce-Pine-Fir #2 wood test buck utilizing the integral nailing fin bedded in polyurethane sealant. The nailing fin was secured to the buck with a 1" roofing nail at each corner, midspan of the head and sill, and two spaced evenly at the jambs.

Test Results:

The results are tabulated as follows:

Paragraph	Title of Test - Test Method	Results	Allowed
2.1.2	Air Infiltration per ASTM E 283 (See Note #1) @ 1.57 psf (25 mph)	<0.01 cfm/ft^2	0.3 cfm/ft^2 max.

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

	Water Resistance per ASTM E 547 WTP = 4.5 psf	No leakage	No leakage
2.1.4.2	Uniform Load Structural per ASTM E 330 (Measurements reported were taken on the jamb)		
	@ 45.0 psf (exterior)	0.02"	0.38" max.
	@ 45.0 psf (interior)	0.02"	0.38" max.
	Forced Entry Resistance per ASTM F 588-97 Type: D Grade: 10		
	Hand Manipulation Test	No entry	No entry
Optional Performance			
4.3	Water Resistance per ASTM E 547 and 331 WTP = 12.0 psf	No leakage	No leakage
	Uniform Load Structural per ASTM E 330 (Measurements reported were taken on the jamb)		
	@ 120.0 psf (exterior)	0.03"	0.38" max.
	@ 120.0 psf (interior)	0.04"	0.38" max.

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.

For ARCHITECTURAL TESTING, INC:

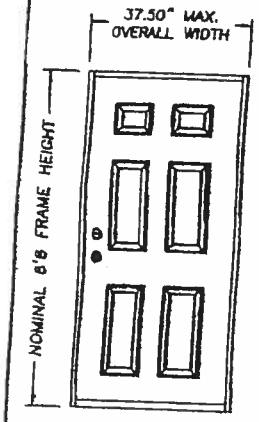
Adam Fodor
Technician

Bruce W. Croak
Director – Product/Physical Testing

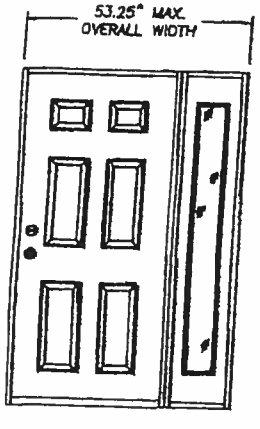
AF:tjp
01-38781.01

CONSTRUCTION SERIES®

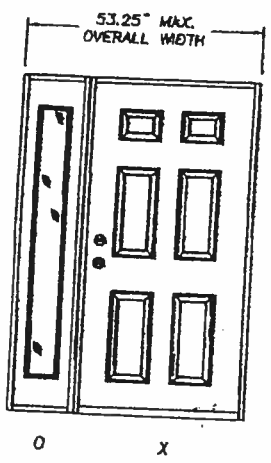
OPAQUE INSULATED STEEL DOOR
OUT-SWING / IN-SWING 6-8 UNITS W/ & W/OUT SIDELITES



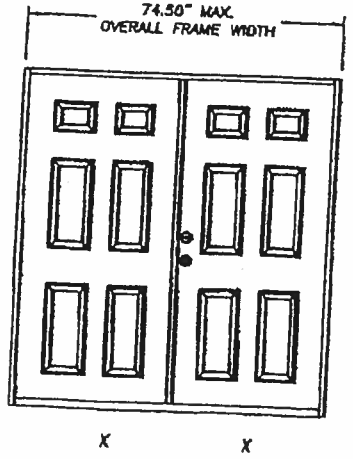
DESIGN PRESSURE RATING
OUT-SWING / IN-SWING POS. 67.0 NEG. 67.0



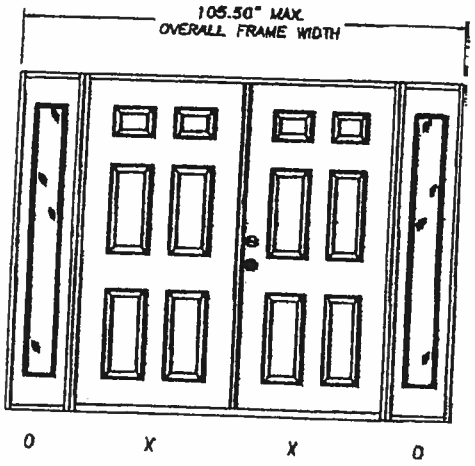
DESIGN PRESSURE RATING
OUT-SWING / IN-SWING POS. 60.0 NEG. 60.0



DESIGN PRESSURE RATING
OUT-SWING / IN-SWING POS. 60.0 NEG. 60.0



ASTRAGAL TYPE	DESIGN PRESSURE RATING
Coastal Alum. Astragal	OUT-SWING / IN-SWING POS. 60.0 NEG. 60.0
* Standard Alum. Astragal	OUT-SWING / IN-SWING POS. 40.0 NEG. 40.0



ASTRAGAL TYPE	DESIGN PRESSURE RATING
Coastal Alum. Astragal	OUT-SWING / IN-SWING POS. 60.0 NEG. 60.0
* Standard Alum. Astragal	OUT-SWING / IN-SWING POS. 40.0 NEG. 40.0

GENERAL NOTES

1. THIS PRODUCT IS DESIGNED TO COMPLY WITH THE FLORIDA BUILDING CODE.
2. PRODUCT ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS.
3. THE SIDELITES REQUIRE WINDBORNE DEBRIS EXTERNAL PROTECTION AS DESCRIBED IN SECTION 1626.1 OF THE FLORIDA BUILDING CODE WHEN USED IN WINDBORNE DEBRIS AREAS.
4. FOR INSWING MASONRY ANCHORING SEE SHEET 2 OF 4.
5. FOR OUTSWING MASONRY ANCHORING SEE SHEET 3 OF 4.
6. FOR INSWING/OUTSWING WOOD STUD ANCHORING SEE SHEET 4 OF 4.

PRODUCT DESCRIPTION

1. THE DOOR FACE SHEETS ARE 25 GA. (0.018") MIN. THICKNESS.
2. THE STILES AND RAILS ARE WOOD CONSTRUCTION.
3. THE INTERIOR DOOR CAVITY IS URETHANE.
4. THE SIDELITE GLAZING IS 0.5" INSULATED TEMPERED GLASS BY THERMA-TRU.
5. THE WOOD JAMBS ARE A MIN. 4-9/16".
6. THE THRESHOLD IS AN ALUMINUM BUMP FACE TYPE (OUTSWING) OR AN ALUMINUM SADDLE TYPE (INSWING).
7. THE STANDARD ALUMINUM ASTRAGAL UTILIZES 7.5" LONG x 0.312" DIA. STEEL ROD WITH A 6.0" LONG ALUMINUM SLIDE ROD REINFORCEMENT BAR TOP AND BOTTOM.
8. ALL LATCHBOLT AND DEADBOLT HARDWARE MUST BE CYLINDRICAL GRADE II WITH A 161 EDGE PREP AND A MINIMUM 1.0" DEADBOLT THROW.

AUGUST 12, 2002

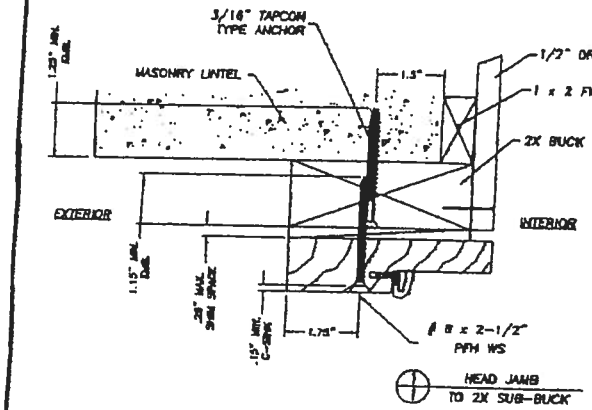
Lyndon F. Schmidt
Florida P. E. No. 43409
19506 French Lace Drive Lutz, FL 33558

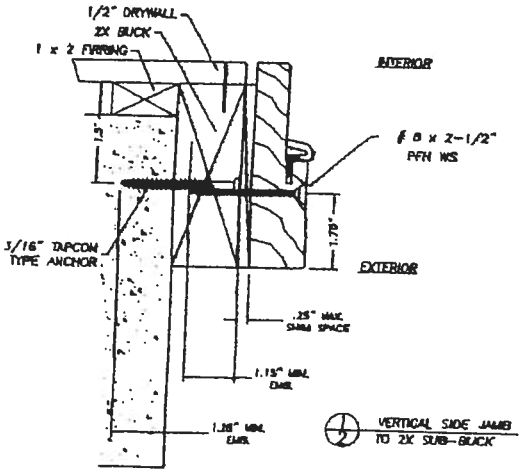
THERMA-TRU CORPORATION
1687 WOODLANDS DRIVE

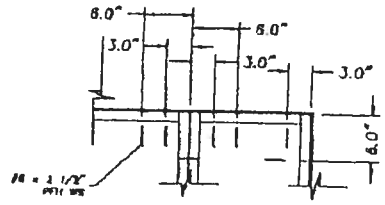
PRODUCT: WOOD EDGE STEEL DOOR OPAQUE W/WO SIDELITES
PART OR ASSEMBLY:

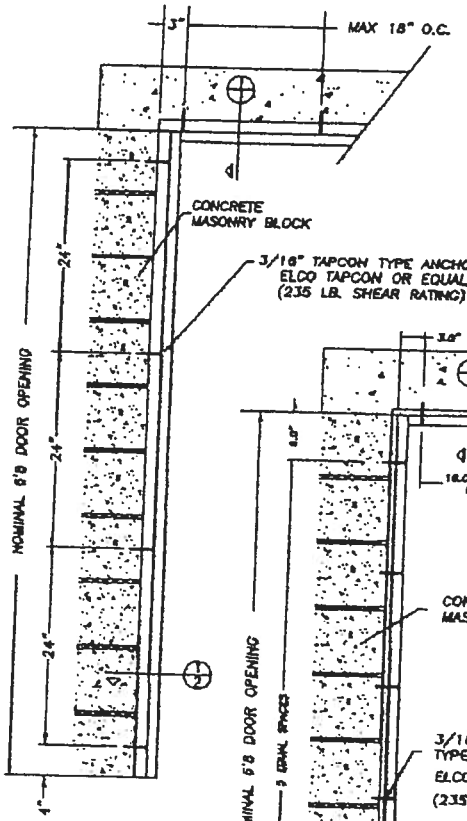
RW BUILDING CONSULTANTS, INC.
813.855.819

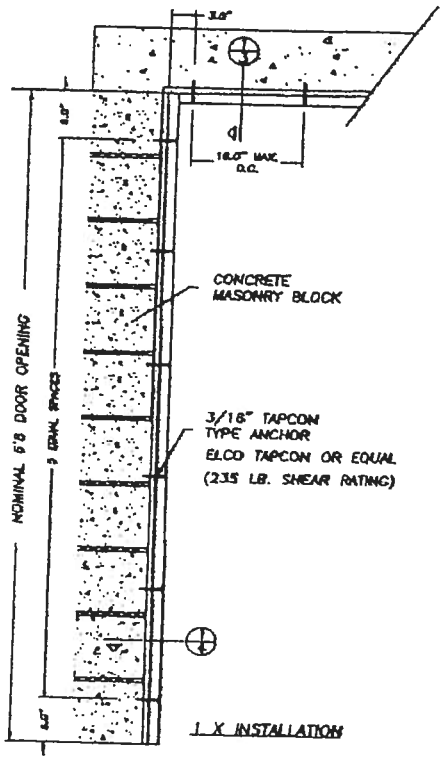
DATED 7/30/0
SCALE N.T.S.
DWG. BY: WLN
CHK. BY: RW
DRAWING NO.: TT-109-O
SHEET 1 OF 4





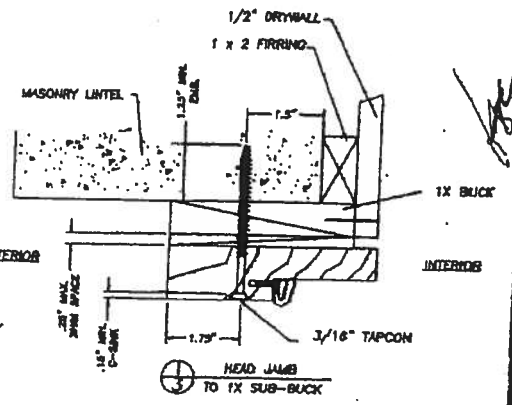


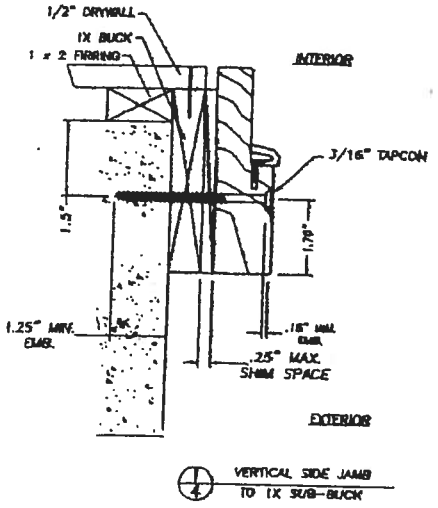


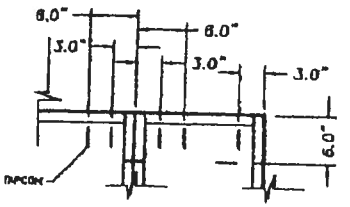


NOTE:

A minimum clearance of 2.0" for all anchoring screws to mortar joints must be maintained.







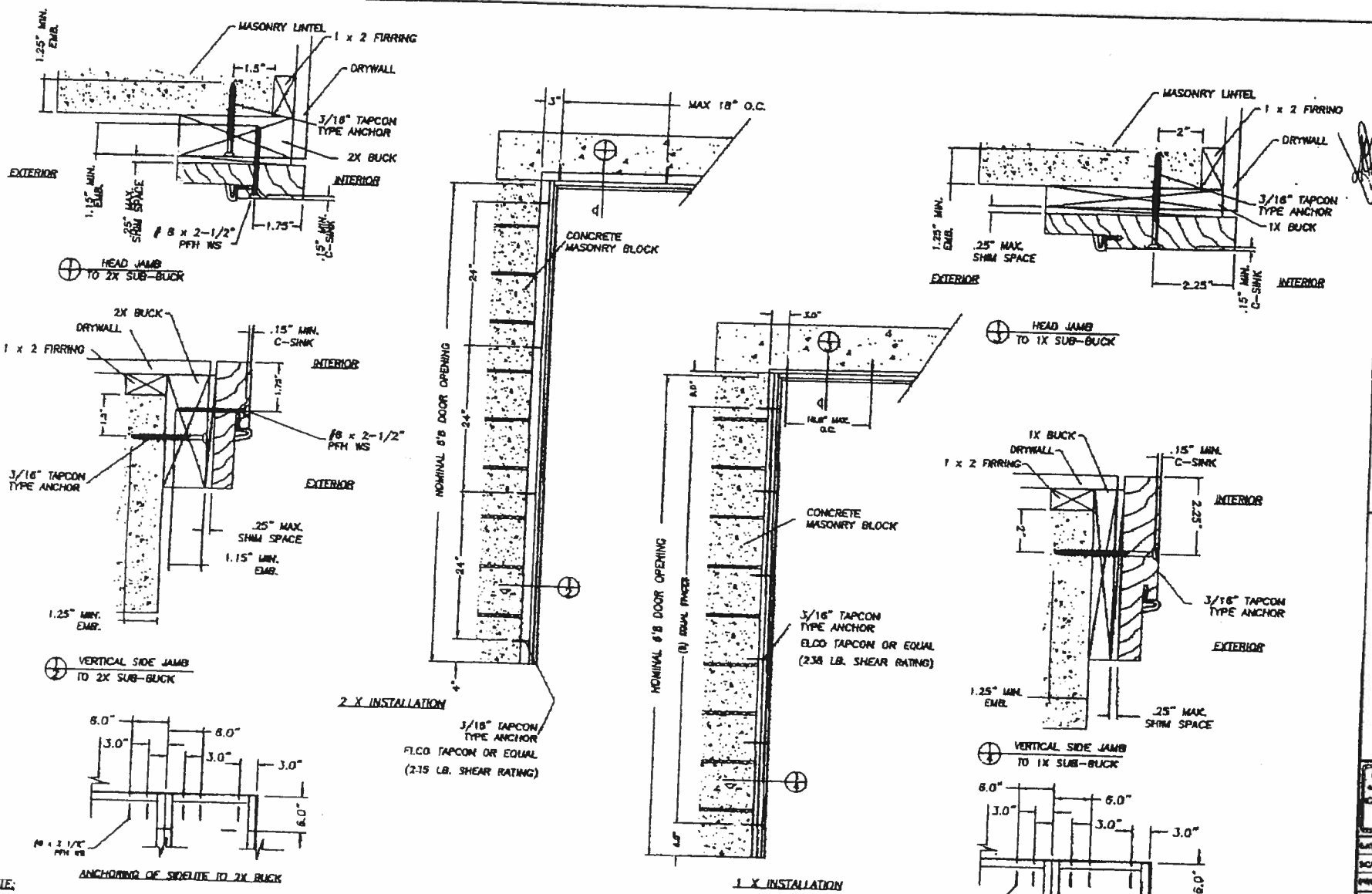
Lyndon F. Schmidt
Florida P. E. No. 43409

THERMA-TRU CORPORATION
1687 WOODLANDS DRIVE
MAUMEE, OHIO

ANCHOR CROSS SECTIONS
MASONRY 6'8

RW BLA
CONSULTANTS
813.659.9

DATE: 7/30/
SCALE: NTS
DWG. BY: W
CHK. BY: R
DRAWING NO.: TT-109-
SHEET 2 OF



NOTE:

1. When using a 1X sub-buck a 6-9/16" jamb is required to allow for min. edge spacing for Tapcon type anchors.
2. A minimum clearance of 2.0" for all anchoring screws to mortar joints must be maintained.

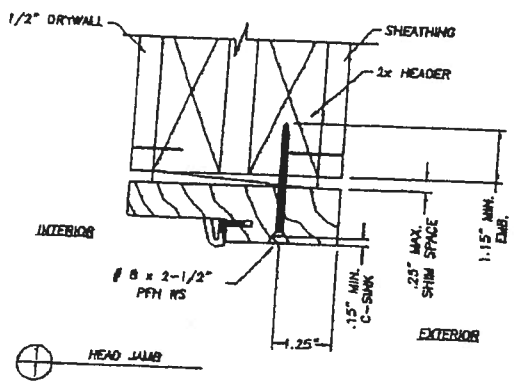
Lyndon F. Schmidt
Florida P. E. No. 43409

THERMA-TRU CORPORATION
1687 WOODLANDS DRIVE
MAUMEE, OHIO

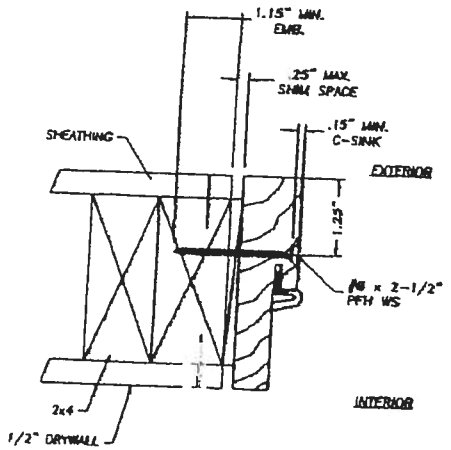
ANCHOR CROSS SECTIONS
MASONRY 6'8
OUT-SWING WOOD FRAME

RW BUILDING CONSULTANTS, INC.
813.859.9197

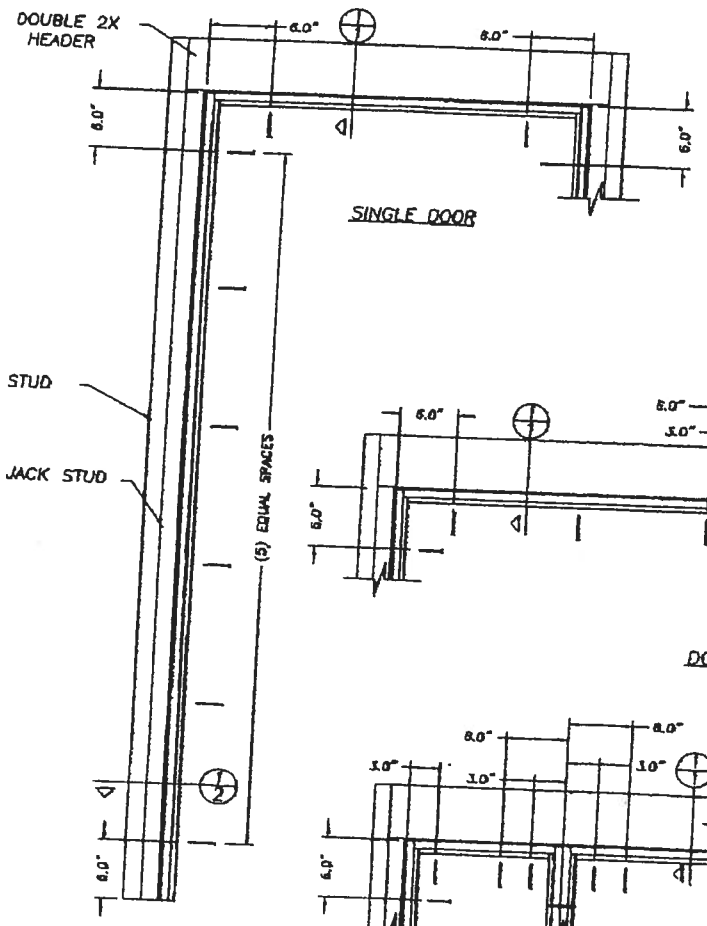
DATE: 7/30/02
SCALE: NTS
PROJ. BY: WLN
DRWN. BY: RW
DRAWING NO.: IT-109-OC
SHEET 3 OF 4



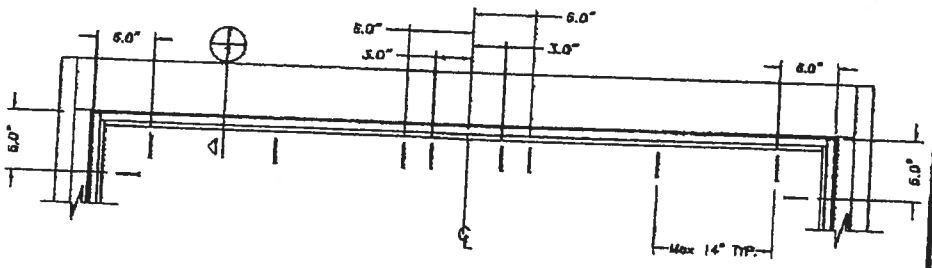
HEAD JAMB



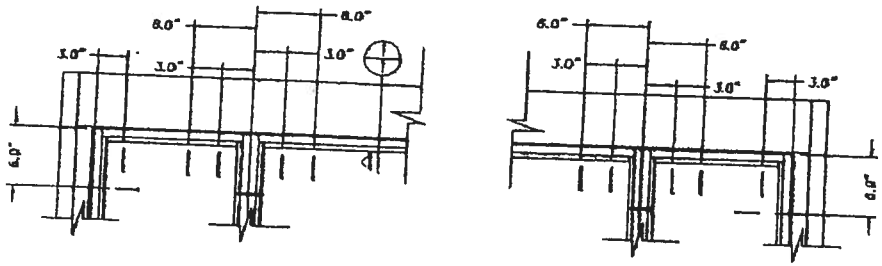
VERTICAL SIDE JAMB



SINGLE DOOR



DOUBLE DOOR



SINGLE OR DOUBLE DOOR WITH SIDELITES

ANCHOR CROSS SECTIONS
WOOD OR STEEL STUD
IN-SWING / OUT-SWING

THERMA-TRU CORPORATION
1687 WOODLANDS DRIVE
MAUMEE, OHIO

AUGUST 12, 2002
Lyndon F. Schmidt
Florida P. E. No. 43409

RW BUILDING CONSULTANTS, INC.
813.659.9191

DATE: 7/30/02
SCALE: NTS
DWN. BY: WLN
CHK. BY: RW
DRAWING NO.: TT-10S-OC
SHEET 4 OF 4

Report No. ETC 01-741-10622.0
DC Notification Number ETC 01018 - Date: May 25, 2001
ETC Certification # 99-0416.01
Test Start Date: March 23, 2001
Test End Date: May 1, 2001

Test Requested By: THERMA TRU CORP
108 Mutzfeld Rd.
Butler, IN 46721
Phone 219 – 868 – 5811
Facsimile 219 – 868 - 5190

Tests Conducted: PA 201, PA 202 & PA 203 (with no deviations)

Design Pressures:

Specimen 1	(PA 202)	Out-swing	+ 67.0 psf.	- 67.0 psf.
Specimen 2,	(PA 202)	In-swing	+ 67.0 psf.	- 67.0 psf.
Specimen 5	(PA 201 & 203)	In-swing	+ 67.0 psf.	- 67.0 psf.
Specimens 3 & 4	(PA 201 &203)	Out-swing	+ 67.0 psf.	- 67.0 psf.

Section 1 - DESCRIPTION OF SERIES:

Model Designation – Therma-Tru Construction Series Opaque Wood Edge Steel Door

Overall Size:
Specimens 1, 3 & 4 - Out-swing Bumper Threshold - 37.5 in. W. x 80.5 in. H. x 4.6 in. D
Specimens 2 & 5 - In-swing Saddle Threshold - 37.5 in. W x 82.0 in. H x 4.6 in. D

Configuration: All Specimens are operable (X)

No. & Size of Doors: All Specimens are opaque door panels
1 active leaf - 36.0 in. W x 79.25 in.H

Section 2 - MATERIAL CHARACTERISTICS:

Frame and Door Material: Finger jointed pine jambs and steel panels.

Florida Registered Professional Engineers Review: 8-7-01
Reg. # 42929, ~~May 25, 2001~~ -Joseph L.Doldan
Signature: Joseph L. Doldan

Section 2 - MATERIAL CHARACTERISTICS Cont.:

Frame Construction:

The head jambs and side jambs are finger jointed pine measuring 4.656 in.W. x 1.211 in. Thk. The head jamb and side jambs are mortised, butted and joined using (3) 0.5 in. Crown x 2 in. - 16 ga. wire staples at each end. The following thresholds were tested, specimens 1, 3 & 4 - Therma-Tru Aluminum Out-swing Bump measuring 4.602 in. x 0.837 in. and attached to the jamb with (2) 0.5 in. Crown x 2.5 in. - 16 ga. wire staples at each end. Specimen 1A was affixed with an add-on high dam sill that increased the height of the original bump threshold to 1.878 in. at the inner most plane of the frame system. Specimens 2 & 5 – Self-adjusting In-swing saddle threshold (Alum/Wood/Vinyl) measuring 5.767 in. x 1.548 in. and attached to the jamb with (2) 0.5 in. Crown x 2.5 in. - 16 ga. wire staples at each end. The hinge jamb was mortised to receive Therma-Tru 4.0 in. x 4.0 in. self-locating hinges located at 9.25 in., 38.5 in. and 67.75 in. from the top of the door jamb.

Panel Construction:

The panel is constructed from 25 Ga. (0.018 in. min. thick) galvanized and primed coated steel face sheets. The interior cavity of each door is filled with BASF polyurethane foam. The face sheet edges are roll formed to form a mechanical interlock with the hinge (1.234 in. thick x 1.660 in. wide) and latch finger jointed pine stiles (1.242 in. thick x 1.660 in. wide). The stiles are machined to interlock with the steel face sheets. The top rail is finger jointed pine (0.789 in. thick x 1.660 in. wide) and the bottom rail is wood composite (0.892 in. thick by 1.660 in. wide) and kerfed to receive a door sweep (sweep used on in-swing models only). The stiles and rails are pressure fitted and contact cement is used to secure them to the steel face sheets. The hinge stile was mortised at 8.375 in., 37.625 in. and 66.875 in. from the top of the door panel to receive 3 Therma-Tru 4.0" x 4.0" butt type hinges.

Glazing: N / A

Glazing Material: N / A

Glazing Method: N / A

Daylight Opening: N / A

Weather-stripping:

Specimens 1, 3 & 5 — Hinge Jamb 1 pc Therma-Tru long reach foam compression weather-strip.
Latch Jamb 1 pc Therma-Tru long reach foam compression weather-strip.
Head Jamb 1 pc Therma-Tru long reach foam compression weather-strip.
Corner pad seals 2 – 1 at each side jamb at threshold

Specimens 2 & 4 — Hinge Jamb 1 pc Therma-Tru short reach foam compression weather-strip.
Latch Jamb 1 pc Therma-Tru short reach foam compression weather-strip.
Head Jamb 1 pc Therma-Tru short reach foam compression weather-strip.
Corner pad seals 2 – 1 at each side jamb at threshold

Specimens 1, 3 & 4 - Out-swing Bump threshold 1 row Therma-Tru vinyl bulb weather-strip.

Specimens 2 & 5 - Therma-Tru vinyl fixed door bottom sweep.

Section 2 - MATERIAL CHARACTERISTICS (Con't.):

Hardware: All Specimens (1) Kwikset 700 Series Latchbolt at 44.0 in. from top of panel.
(The strikeplate was attached to the jamb with (2) #8 x 2.5 in. PFH WS.)
(1) Kwikset 700 Deadbolt at 38.5 in. from top of panel.
(The strikeplate was attached to the jamb with (2) #8 x 2.5 in. PFH WS.)
(3) Therma-Tru 4 in. butt type hinges
(The hinge was fastened to the door panel with (4) #10 x 0.75 in PFH WS and fastened to the jamb with (3) #10 x 0.75 in. PFH WS and (1) #10 x 2.0 in. PFH WS.)

Weepholes: None

Muntins: None

Reinforcement: None

SEALANT: Latex caulking as needed to seal unit into rough opening.

ADDITIONAL DESCRIPTION:

All specimens were installed in a wood test buck.

Section 3 - INSTALLATION:

Screws and Method of Attachment:

Specimens 1, 2, 3, 4 & 5

14 - # 8 x 2.5 in. PFH WS, used to fasten the frame to the wood buck at head and side jambs.

(2) header - one at 6.0 in. from each end.

(6) hinge and latch jamb - In-swing one at 6.0 in. from each end and (4) additional at 14.0 in. on center.
Out-swing one at 6.0 in. from each end and (4) additional at 13.75 in. on center.

(3) threshold - 6.0 from each end and one in the center.

Note – Specimens 2 and 5 (in-swing) were not attached to the wood buck with any screws.

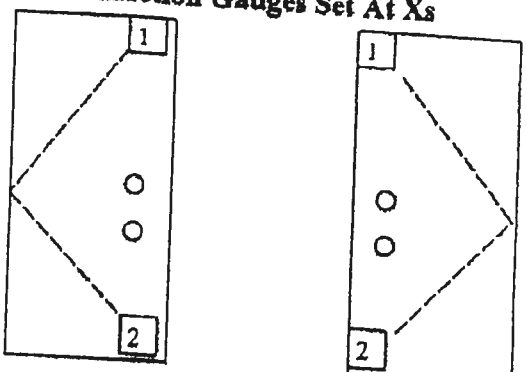
Florida Registered Professional Engineers Review: 8-7-01
Reg. # 42929, ~~May 25, 2001~~ -Joseph L.Doldan
Signature: Joseph L. Dolan

Section 4 - SEQUENCE OF TESTS PERFORMED:

Test Sequence: PA 202

1. Air Infiltration
2. ½ Test Pressure Positive
3. Design Pressure Positive
4. ½ Test Pressure Negative
5. Design Pressure Negative
6. Water Infiltration Positive Direction
7. Full Test Pressure Positive
8. Full Test Pressure Negative
9. Forced Entry

Deflection Gauges Set At Xs



In-swing **X** Out-swing

Deflection was measured with two (2) Aerospace 2.0" dial indicators: location # 1-SN 213293 and location # 2-SN213848.

TEST RESULTS:

AIR INFILTRATION

Air Infiltration Tests were conducted in accordance with DCBCCD PA 202-94

Air at 1.57 psf		Actual	Allowable
Specimen 1	Out-swing	0.02 CFM/SQ FT	0.34 CFM/SQ FT
Specimen 2	In-swing	0.17 CFM/SQ FT	0.34 CFM/SQ FT

WATER INFILTRATION TEST

Water Infiltration Test was conducted in accordance with DCBCCD PA 202 – 94

Specimen 1	Out-swing	Water @ 8.25 psf for 15 min.	No water penetration over sill.
Specimen 1A	Out-swing	Water @ 10.0 psf for 15 min.	No water penetration over sill.
Specimen 2	In-swing	Water @ 2.86 psf for 15 min.	No water penetration over sill.

Note: Specimen 1(renamed 1A for water test) was affixed with an add on prototype threshold increasing the inner plane of the threshold to 1.875 in. above floor to achieve the higher water test pressure of 10.0 PSF.

TEST RESULTS Cont.:

STATIC AIR PRESSURE TESTS

Static Tests were conducted in accordance with DCBCCD PA 202-94

Specimen 1 (out-swing) Design Loads + 67.0 psf, - 67.0 psf.

Range of test Positive loads	Time (Sec.)	Load (psf)	Deflection (in.)	Perm. Set (in.)
1/2 Test	30	50.25		
Design	30	67.00		
Test	30	100.50	Door T (1) 0.389	0.015
			Door B (2) 0.372	0.016

Range of test Negative loads	Time (Sec.)	Load (psf)	Deflection (in.)	Perm. Set (in.)
1/2 Test	30	50.25		
Design	30	67.00		
Test	30	100.50	Door T (1) 1.750	0.281
			Door B (2) 1.650	0.257

(1) Door T - Max. allowable perm. set at completion of test load (0.4% of span) .004 x 79.25 in. = 0.317 in.
(1) Door T - Max. allowable perm. set at completion of test load (0.4% of span) .004 x 79.25 in. = 0.317 in.

Specimen 2 (In-swing) Design Loads + 67.0 psf, - 67.0 psf.

Range of test Positive loads	Time (Sec.)	Load (psf)	Deflection (in.)	Perm. Set (in.)
1/2 Test	30	50.25		
Design	30	67.00		
Test	30	100.50	Door T (1) 1.610	0.274
			Door B (2) 1.510	0.251

Range of test Negative loads	Time (Sec.)	Load (psf)	Deflection (in.)	Perm. Set (in.)
1/2 Test	30	50.25		
Design	30	67.00		
Test	30	100.50	Door T (1) 0.395	0.012
			Door B (2) 0.365	0.010

(1) Door T - Max. allowable perm. set at completion of test load (0.4% of span) .004 x 79.25 in. = 0.317 in.
(1) Door T - Max. allowable perm. set at completion of test load (0.4% of span) .004 x 79.25 in. = 0.317 in.

Florida Registered Professional Engineers Review: 8-7-01
Reg. # 42929, ~~May 25, 2001~~ -Joseph L.Doldan
Signature: Joseph L. Dolan

TEST RESULTS Cont.:

FORCED ENTRY TEST

Forced Entry Test was conducted in accordance with DCBCCD PA202-94

Specimen	Size	Time	Result
Specimen 1	37.5 in. W x 80.5 in. H	30 seconds	(Doors remained locked & shut)
Specimen 2	37.5 in. W x 82.0 in. H	30 seconds	(Doors remained locked & shut)

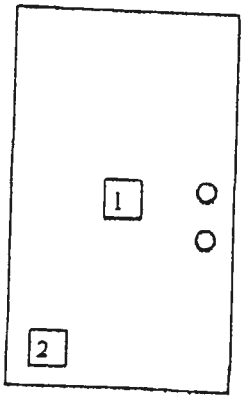
NOTE: Active door panel remained engaged and was operable before and after all tests.

IMPACT TEST – LARGE MISSILE

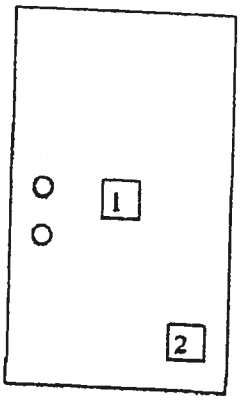
Impact tests were conducted in accordance with DCBCCD PA 201-94.

Note:
X measurement from left edge of specimen.
Y measurement from top edge of test specimen.

Type and weight of missile: # 2 Southern Yellow Pine, Nominal 2x4,
Length approx. 88.25 in., Weight - 9 lb.



X (In-swing)



X (Out-swing)

Specimen 3 **Opaque Single Door (Out-swing)**

Impact No.	Impact Loc.	Speed (Ft/Sec)	X-Meas. (in.)	Y-Meas. (in.)
1.	1	50.1	16.75	40.25
2.	2	50.2	28.75	71.00

None of the impacts penetrated the specimen and all locks remained engaged. 8-7-01

Florida Registered Professional Engineers Review: Reg. # 42929, ~~May 25, 2001~~ -Joseph L.Doldan

Signature: Joseph L. Doldan

TEST RESULTS Cont.:

IMPACT TEST – LARGE MISSILE Cont:

Specimen 4 **Opaque Single Door (Out-swing)**

Impact No.	Impact Loc.	Speed (Ft/Sec)	X-Meas (in.)	Y-Meas (in.)
1.	1	50.1	18.0	40.0
2.	2	50.0	28.5	72.5

None of the impacts penetrated the specimen and all locks remained engaged.

Specimen 5 **Opaque Single Door (In-swing)**

Impact No.	Impact Loc.	Speed (Ft/Sec)	X-Meas (in.)	Y-Meas (in.)
1.	1	50.2	16.75	39.50
2.	2	50.1	8.0	72.0

None of the impacts penetrated the specimen and all locks remained engaged.

FATIGUE LOADING TEST

Cycle tests were conducted in accordance with DCBCCD PA 203

Specimen 3 **Opaque Single Door (Out-swing)**

Design Load psf = + 67.0 psf, - 67.0 psf

Positive loads

Range of Test	# Cycles	Load (psf)	Cycles/Min.
+ 0 to 0.5	600	33.5	23
+ 0 to 0.6	70	40.2	23
+ 0 to 1.3	1	87.1	

671 cycles completed

Negative Loads

Range of Test	# Cycles	Load (psf)	Cycles/Min.
+ 0 to 0.5	600	33.5	23
+ 0 to 0.6	70	40.2	23
+ 0 to 1.3	1	87.1	

671 cycles completed

Florida Registered Professional Engineers Review: 8-7-01 Reg. # 42929, ~~May 25, 2001~~ -Joseph L.Doldan

Signature: Joseph L. Dolda

TEST RESULTS Cont.:

FATIGUE LOADING TEST (Con.t.)

Specimen 4 **Opaque Single Door (Out-swing)**

Design Load psf = + 67.0 psf, - 67.0 psf

Positive loads

Range of Test	# Cycles	Load (psf)	Cycles/Min.
+ 0 to 0.5	600	33.5	23
+ 0 to 0.6	70	40.2	23
+ 0 to 1.3	1	87.1	

671 cycles completed

Negative Loads

Range of Test	# Cycles	Load (psf)	Cycles/Min.
+ 0 to 0.5	600	33.5	23
+ 0 to 0.6	70	40.2	23
+ 0 to 1.3	1	87.1	

671 cycles completed

Specimen 5 **Opaque Single Door (In-swing)**

Design Load psf = + 67.0 psf, - 67.0 psf

Positive loads

Range of Test	# Cycles	Load (psf)	Cycles/Min.
+ 0 to 0.5	600	33.5	23
+ 0 to 0.6	70	40.2	23
+ 0 to 1.3	1	87.1	

671 cycles completed

Negative Loads

Range of Test	# Cycles	Load (psf)	Cycles/Min.
+ 0 to 0.5	600	33.5	23
+ 0 to 0.6	70	40.2	23
+ 0 to 1.3	1	87.1	

671 cycles completed

Specimens showed no resultant failure or duress after cycle test. No failure of fasteners. Locks remained engaged. There were no cracks longer than 5 in. x 1/16 in. through which air could pass observed. The door was operable at end of test.

Florida Registered Professional Engineers Review: 8-7-01
Reg. # 42929, ~~May 25, 2001~~ -Joseph L Doldan
Signature: Joseph L. Doldan

Section 5 - DRAWINGS TO BE SUBMITTED:

1. L-2110 sheets 1 through 10 of 10
2. Laboratory Anchor Sketch

Comment: Nominal 2 mil polyethylene film was used to seal against air leakage during structural loads. The film was used in a manner that did not influence the test results.

Observers:

Steve Kepler – Project Scientist, THERMA-TRU Corp.
Rick Wright – Consultant, R.W. Building Consultants, Inc.

Dade County Witness:

Not present

All Tests Witnessed by:

Joseph L. Doldan, P.E.
Arthur Murray, ETC Laboratories
Bill Yanda, ETC Laboratories

cc: THERMA TRU CORP. (2)
Rick Wright (2)
File (1)

Florida Registered Professional Engineers Review: 8-7-01 Reg. # 42929, ~~May 25, 2001~~ -Joseph L.Doldan

Signature: Joseph L. Doldan

Conditions, Terms, and General Notes Regarding These Tests

The product tested has been compared to the detailed drawings, bill of materials and fabrication information supplied by the client so named herein. Our analysis, which includes dimensional and component description comparisons, indicate the tested product and engineering information supplied by the client **"Are Equivalent"**. The report and representative samples will be retained for four years from the date of initial test.

These test results were obtained by employing all requirements of the designated test methods with no deviations. The test results and specimen supplied for testing are in compliance with the referenced specifications.

The test results are specific to the product tested by this laboratory and of the sample supplied by the client named herein, and they relate to no other product either manufactured by the client, a Fabricator of the client or of installed field performance.

This report does not constitute an AAMA, NWWDA or Dade County certified product under the certification programs of these organizations. The program administrator of these programs and organizations may only grant product certification.

ETC Laboratories makes no opinions or endorsements regarding this product and its performance. This report may not be reproduced or quoted in partial form without the expressed written approval of ETC Laboratories.

ETC Laboratories letters, reports, it's name or insignia or mark are for the exclusive use of the client so named herein and any other use is strictly prohibited. The report, letters and the name of ETC Laboratories, its seal or mark shall not be used in any circumstance to the general public or in any advertising.

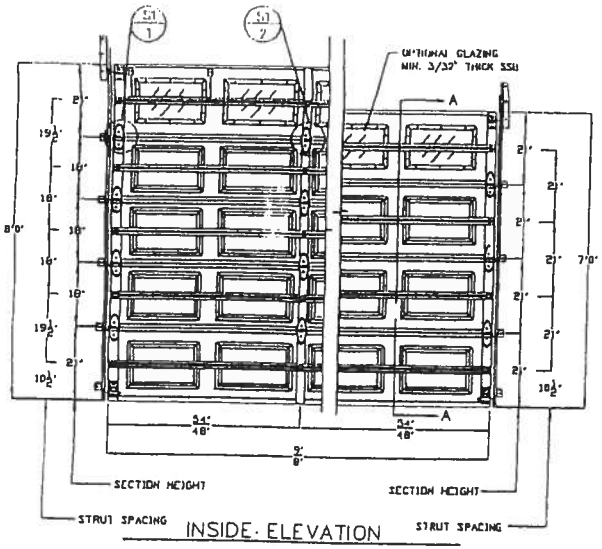
Limitation of Liability: Due diligence was used in rendering this professional opinion. By acceptance of this report, this client agrees to hold harmless and indemnify ETC Laboratories, it's employees and offices and owners against all claims and demands of any kind whatsoever, which arise out of or in any manner connected with the performance of work referred to herein. ETC laboratories reserves the right to subcontract any and all work for its clients in order to fulfill its contractual obligations for testing to these standards.

For ETC Laboratories

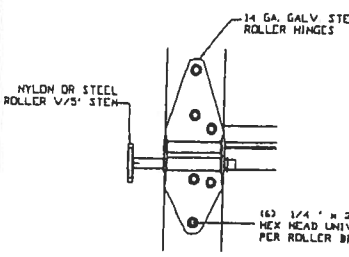
Bill Yanda
Test Technician

Arthur Murray
Laboratory Manager
Wind Engineering Laboratory

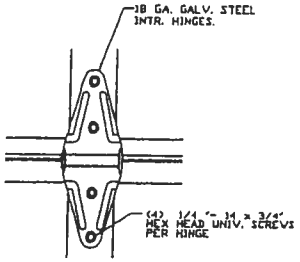
Florida Registered Professional Engineers Review: 8-7-01
Reg. # 42929, ~~May 25, 2001~~ -Joseph L.Doldan
Signiture: Joseph L. Doldan



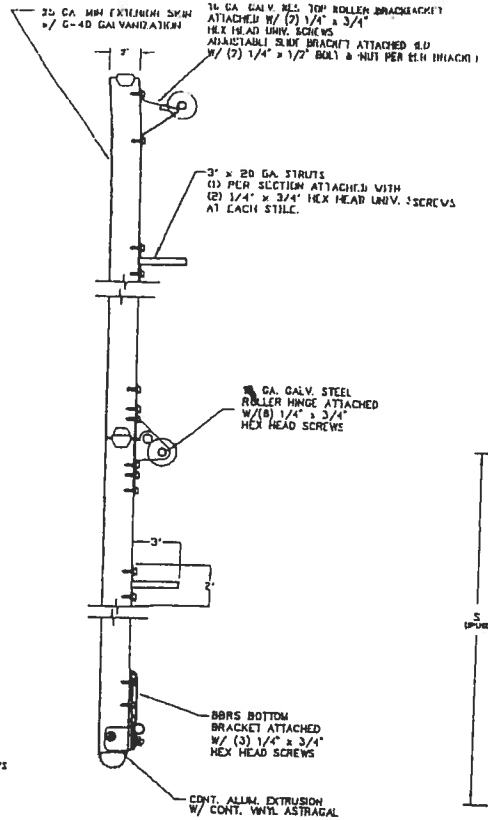
INSIDE ELEVATION



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



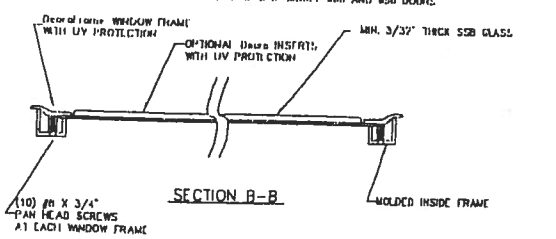
TYP. HINGE CONNECTION S1/2
N.T.S.



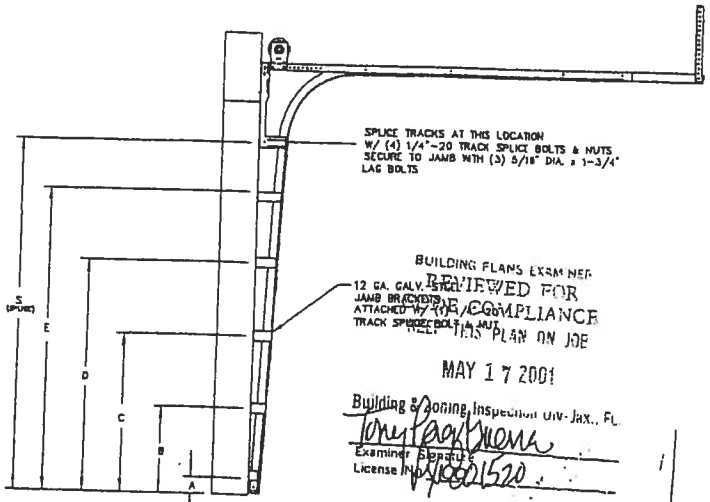
SECTION A-A (SIDE VIEW)

GLAZING OPTION CROSS SECTION

TEST No. SBC-380-01 ON OCTOBER 12, 1995 AND UNIT GLASS WINDOWS IN THE DOOR BEING USED. THE TEST PRESSURES WERE +48.4 PSF AND -64.7 PSF. BY COMPARISON, FOUR (4) WINDOWS MAY BE INSTALLED IN (1) ONE SECTION OF THE 8' X 7' AND 8' X 8' MODEL 600 AND 650 DOORS.



SECTION B-B



BUILDING PLANS EXAMINER
REVIEWED FOR
CODE COMPLIANCE
KEEP THIS PLAN ON JOB
MAY 17 2001
Building & Zoning, Inspection Div. Jax., FL
Examiner Signature
License No. #0021520

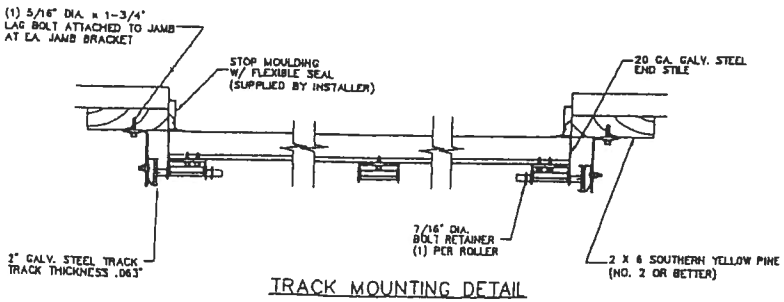
TRACK CONFIGURATION FOR 6'6" UP TO 8' TALL DOORS

JAMB BRACKET LOCATIONS

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

SPECIFICATIONS AND NOTES

1. DOORS AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
2. DOOR SECTIONS SHALL BE 25 GA. (.018") MIN. ROLL FORMED LIGHT COMMERCIAL QUALITY, G-40 GALVANIZATION.
3. DOORS UP TO 7'6" HIGH CONSIST OF (4) SECTIONS AS SHOWN.
4. DOORS UP TO 8'0" HIGH CONSIST OF (5) SECTIONS AS SHOWN.
5. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.
6. THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN ASTM E330-90, AND THE SOUTHERN BUILDING CODE SECTION 1606 WIND LOAD DESIGN CRITERIA THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING THE FOLLOWING PARAMETERS:
   A. BASIC WIND SPEED OF 110 MPH
   B. DOOR CAN BE INSTALLED WITH 8 FEET OF DOORS WIDTH INSIDE THE EDGE STRIP.
   C. 15' MEAN ROOF HEIGHT AT ANY SLOPE
   D. USE FACTOR OF 1.0
   E. EXPOSURE RATING OF C



TRACK MOUNTING DETAIL

WOOD JAMB ATTACHMENT TO STRUCTURE

RATED FOR 110 MPH FASTEST-MILE BASIC WIND SPEEDS

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

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

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

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

MAX SIZE 8' x 8'			
DESIGN LOADS +28.7 PSF -31.3 PSF			
TEST LOADS +43.0 PSF -46.9 PSF			
REV	DESCRIPTION OF REVISIONS	DATE	BY

Amarr Garage Doors
8929 Brandt Mill Rd. Winston-Salem, NC 27106

MODEL #600 STRATFORD
MODEL #650 HERITAGE III

SIZE	DRAWN BY	DATE	DRAWING NUMBER
B	CHECKED BY	DATE	SBC-380-007-J
SCALE: NOT TO SCALE			SHEET 1 OF 1

A 1/19/01

TAMKO®
ROOFING PRODUCTS

FEB - 4 RECD

January 31, 2002

TO: OUR FLORIDA CUSTOMERS:

Effective February 1, 2002, the following TAMKO shingles, as manufactured at TAMKO's Tuscaloosa, Alabama, facility, comply with ASTM D-3161, Type I modified to 110 mph. Testing was conducted using four nails per shingle. These shingles also comply with Florida Building Code TAS 100 for wind driven rain.

- Glass-Seal AR
- Elite Glass-Seal AR
- ASTM Heritage 30 AR (formerly ASTM Heritage 25 AR)
- Heritage 40 AR (formerly Heritage 30 AR)
- Heritage 50 AR (formerly Heritage 40 AR)

All testing was performed by Florida State certified independent labs.

Please direct all questions to TAMKO's Technical Services Department at 1-800-641-4691.

TAMKO Roofing Products, Inc.

CORPORATE HEADQUARTERS
220 W. FOURTH STREET P.O. BOX 1404 JOPLIN, MO 64802-1404 800-641-4691 FAX 800-641-1925