



BUILDING CODE COMPLIANCE OFFICE (BCCO)  
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA  
METRO-DADE FLAGLER BUILDING  
140 WEST FLAGLER STREET, SUITE 1603  
MIAMI, FLORIDA 33130-1563  
(305) 375-2901 FAX (305) 372-6339

**NOTICE OF ACCEPTANCE (NOA)**

[www.maimidade.gov/buildingcode](http://www.maimidade.gov/buildingcode)

**Sabana Windows, LLC.**  
**2960 Ponce de Leon Blvd.**  
**Coral Gables, FL 33134**

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

**DESCRIPTION:**

**Series "Mahogany Impact" 8'2" & 10'2" W/E Outswing Glazed Wood French Doors – L.M.I.**

**LIMITATIONS: The following approved glass lamination shall only be used:**

**The "Safety-Plus II Laminated Glass" by Nebula Glass International dba Glasslam.**

**APPROVAL DOCUMENT:** Drawing No. **05-309**, titled "Mahogany Impact Swing - Out Door", sheets 1 through 11 of 11, prepared by EngCo Inc., dated September 27, 2005, signed and sealed by Pedro De Figueiredo, P.E., bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

**MISSILE IMPACT RATING: Large and Small Missile Impact Resistant**

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**REVISION** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official. This NOA **renews NOA # 07-0911.01** and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P.E.**



*J. Gascon*  
10/30/08

NOA No. 08-0922.05  
Expiration Date: October 07, 2009  
Approval Date: November 20, 2008  
Page 1

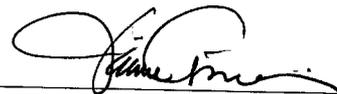
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No **05-309**, titled "Mahogany Impact Swing - Out Door", sheets 1 through 11 of 11, prepared by EngCo Inc., dated September 27, 2005, signed and sealed by Pedro De Figueiredo, P.E. *(Submitted under NOA # 07-0911.01)*

**B. TESTS**

1. Test reports on: 1) Large Missile Impact Test, per TAS 201-94  
2) Cyclic Loading Test, per TAS 203-94  
Along with installation diagram of a pair of Ellipse Top Outswing French Wood Doors/Windows (6' x 8') marked-up by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-99-799A**, dated 03/04/99, signed and sealed by Hector M. Medina, P. E. *(Submitted under NOA # 99-0511.02)*
2. Test reports on: 1) Large Missile Impact Test, per TAS 201-94  
2) Cyclic Loading Test, per TAS 203-94  
Along with installation diagram of a pair of Arch Top Outswing French Wood Doors/Windows (6' x 8') marked-up by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-99-799B**, dated 03/04/99, signed and sealed by Hector M. Medina, P. E. *(Submitted under NOA # 99-0511.02)*
3. Test reports on: 1) Large Missile Impact Test, per TAS 201-94  
2) Cyclic Loading Test, per TAS 203-94  
Along with installation diagram of a pair of Square Top Outswing French Wood Doors/Windows (6' x 8') marked-up by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-99-799C**, dated 03/04/99, signed and sealed by Hector M. Medina, P. E. *(Submitted under NOA # 99-0511.02)*
4. Test reports on: 1) Large Missile Impact Test, per TAS 201-94  
2) Cyclic Loading Test, per TAS 203-94  
Along with installation diagram of a pair of Square Top Outswing Raised Panel Wood Door/Windows (6' x 10') marked-up by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-99-799D**, dated 03/04/99, signed and sealed by Hector M. Medina, P. E. *(Submitted under NOA # 99-0511.02)*
5. Test reports on: 1) Air Infiltration Test, per TAS 202-94  
2) Uniform Load Static Air Pressure Test, per TAS 202-94  
3) Water Resistance Test, per TAS 202-94  
4) Forced Entry Resistance Test, per FB (b) TAS 202-94  
Along with installation diagram of a pair of Square Top Outswing French Wood Doors/Windows (6' x 8') marked-up by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-99-1136**, dated 03/08/99, signed and sealed by Hector M. Medina, P. E. *(Submitted under NOA # 99-0511.02)*



Jaime D. Gascon, P.E.  
Chief, Product Control Division  
NOA No. 08-0922.05  
Expiration Date: October 07, 2009  
Approval Date: November 20, 2008

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**B. TESTS (CONTINUED)**

6. Test reports on: 1) Air Infiltration Test, per TAS 202-94  
2) Uniform Load Static Air Pressure Test, per TAS 202-94  
3) Water Resistance Test, per TAS 202-94  
4) Forced Entry Resistance Test, per (b) TAS 202-94

Along with installation diagram of a pair of Square Top Outswing Raised Panel Wood Door /Window (6' x 10') marked-up by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-99-1137**, dated 03/16/99, signed and sealed by Hector M. Medina, P. E.

*(Submitted under NOA # 99-0511.02)*

7. Test reports on: 1) Large Missile Impact Test, per FBC, TAS 201-94  
2) Cyclic Loading Test, per FBC, TAS 203-94

Along with installation diagram Outswing French Wood Doors marked-up by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-03-1846**, dated 08/21/03, signed and sealed by Rafael E. Droz-Seda, P. E.

*(Submitted under NOA # 04-0520.01)*

8. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Load Static Air Pressure Test, per FBC, TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Forced Entry Resistance Test, per FBC 2411.3.2.1 and (b) 202-94

Along with installation diagram Outswing French Wood Doors marked-up by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-03-1343**, dated 08/21/03, signed and sealed by Rafael E. Droz-Seda, P. E.

*(Submitted under NOA # 04-0520.01)*

**C. CALCULATIONS**

1. Revised Anchor Calculations, and structural analysis, prepared by Frank L. Bennardo, P.E. Consulting Engineers, dated 07/13/05, signed and sealed by Frank L. Bennardo, P.E.

**Complies with ASTM E1300-98**

*(Submitted under NOA # 05-0930.02)*

**D. QUALITY ASSURANCE**

1. Miami Dade Building Code Compliance Office (BCCO).

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **08-0709.04** issued to Nebula Glass International dba Glasslam for their "**Safety-Plus II Laminated Glass**" dated 09/11/2008, expiring on 08/07/2013.



Jaime D. Gascon, P.E.

Chief, Product Control Division

NOA No. 08-0922.05

Expiration Date: October 07, 2009

Approval Date: November 20, 2008

Sabana Windows, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**F. STATEMENTS**

1. Statement letter of conformance and no financial interest, dated May 05, 2004, signed and sealed by Pedro De Figueiredo, P. E.  
*(Submitted under NOA # 05-0930.02)*
2. One year conditional approval, subjected to successful verification test, approved on October 19, 2007 and expiring on October 07, 2008.  
*(Submitted under NOA # 07-0911.01)*
3. Testing agreement letter, dated September 21, 2007 between Hurricane Test Laboratory, Inc, (HETI) and Sabana Windows, LLC, issued by HETI.  
*(Submitted under NOA # 07-0911.01)*
4. Laboratory compliance letter for Test Report no. **HETI-99-799A, B, C and D, HETI-99-1136 and HETI-99-1137**, issued by Hurricane Test Laboratory, Inc., dated March 04, 1999, signed and sealed by Hector M. Medina, P.E.  
*(Submitted under NOA # 99-0511.02)*
5. Laboratory compliance letter for Test Report no. **HETI-03-1846 and HETI-99-1137**, issued by Hurricane Test Laboratory, Inc., dated August 21, 2003, signed and sealed by Rafael E. Droz-Seda, P.E.  
*(Submitted under NOA # 04-0520.01)*
6. Request letter of one year conditional approval, subjected to successful verification test, dated September 11, 2008, signed and issued by Sabana Windows, LLC.
7. Second one year conditional approval, subjected to successful verification test, approved on November 20, 2008 and expiring on October 07, 2009.

**G. OTHERS**

1. Notice of Acceptance No. **07-0911.01**, issued to Sabana Windows, LLC. for their Series "**Mahogany Impact**" 8'2" & 10'2" W/E Outswing Glazed Wood French Doors – **L.M.I.**", approved on 10/19/07 and expiring on 10/07/08.
2. One year conditional approval, subjected to successful verification test, the final approval will be balanced of total 5 years.

**H. LIMITATIONS:**

1. The following approved glass lamination shall **only** be used:  
The "**Safety-Plus II Laminated Glass**" by Nebula Glass International dba Glasslam.

  
Jaime D. Gascon, P.E.

Chief, Product Control Division  
NOA No. 08-0922.05

Expiration Date: October 07, 2009  
Approval Date: November 20, 2008

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- SHEET 11 of 11 - MODEL E DETAILS

**GENERAL NOTES:**

1- CODE: THIS PRODUCT HAS BEEN TESTED AND DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2004 EDITION - (HIGH VELOCITY HURRICANE ZONE).

2- DEFINITION: THIS PRODUCT IS A SWING OUT MAHOGANY WOOD TYPE DOOR WITH LARGE AND SMALL MISSILE IMPACT RESISTANCE.

3- POSTING:  
 \*MAHOGANY WOOD DOOR  
 LARGE & SMALL MISSILE IMPACT RESISTANT  
 SABANA WINDOWS, INC.  
 MIAMI LAKES - FLORIDA  
 DADE COUNTY PRODUCT CONTROL APPROVED\*

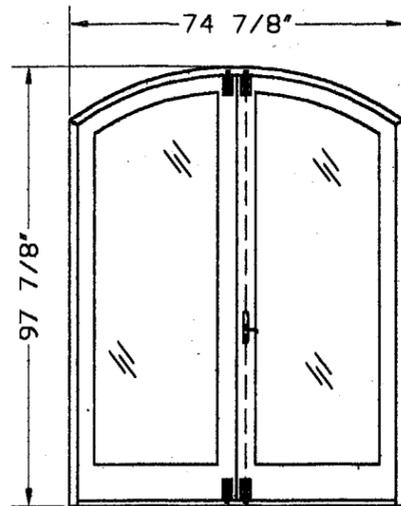
4- DESIGN LOADS: LOADS MUST BE CALCULATED BY A PROFESSIONAL ARCHITECT OR ENGINEER FOR EACH SPECIFIC PROJECT. THE CALCULATED DESIGNED PRESSURE MUST NOT EXCEED THE ALLOWABLE APPROVED PRESSURE.

5- MATERIAL: ALL PARTS TO BE MAHOGANY WOOD AND GLAZING TO BE LAMINATED IMPACT RESISTANT GLASS AS SPECIFIED ON THIS APPROVAL.

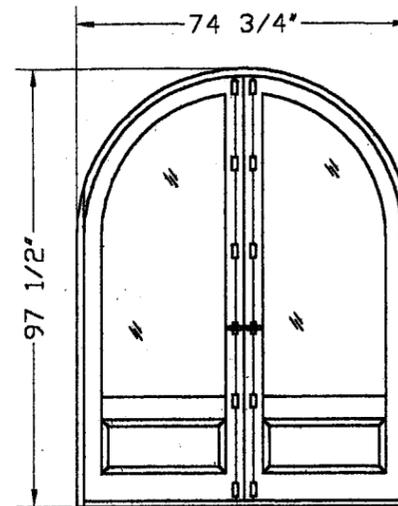
6- FASTENERS: ASSEMBLY SCREWS AND ANCHORS SHALL BE AS SPECIFIED IN THIS CURRENT SET OF DRAWINGS.

7- USE: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, ARCHITECT OR ENGINEER OF RECORD TO VERIFY THE FOLLOWING:  
 7.1- THE STABILITY OF THE STRUCTURE WHERE THE UNIT IS TO BE ATTACHED INSURING PROPER ANCHORAGE.  
 7.2- THE SITE SPECIFIC PROJECT CRITERIA, SUCH AS BUT NOT LIMITED TO, LOCAL CODE REQUIREMENTS, DESIGNED PRESSURES ETC.  
 7.3- THAT THIS APPROVAL IS ADEQUATE TO THE SPECIFIC PROJECT.

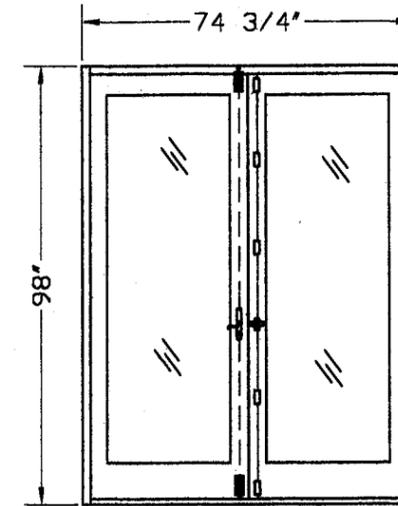
8- 33 1/3% INCREASE IN ALLOWABLE LOADS HAVE NOT BEEN USED IN THE DESIGN OF THE ANCHORS FOR THIS PRODUCT APPROVAL, EXCEPT WOOD SCREWS WITH 1.33 INCREASE FOR WIND LOAD DURATION HAVE BEEN USED.



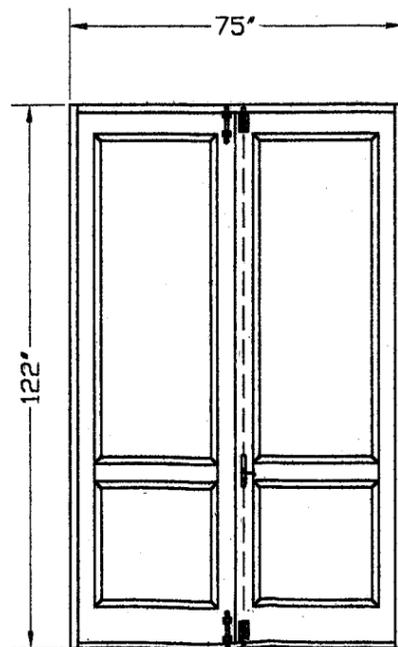
**MODEL A**  
 ELLIPSE FRENCH SWING-OUT DOOR  
 DESIGNED LOADS = +53 PSF, -70 PSF  
 FOR MODEL A DETAILS REFER TO: SHEET 2 AND 3 OF 11



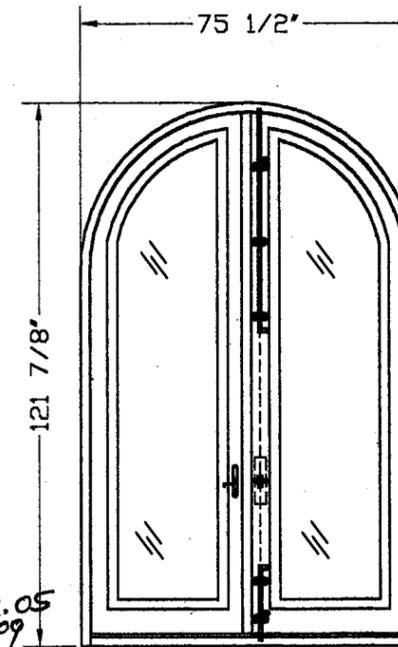
**MODEL B**  
 FULL ARCHED FRENCH SWING-OUT DOOR  
 DESIGNED LOADS = +53 PSF, -70 PSF  
 FOR MODEL B DETAILS REFER TO: SHEET 4 AND 5 OF 11



**MODEL C**  
 SQUARE FRENCH SWING-OUT DOOR  
 DESIGNED LOADS = +53 PSF, -70 PSF  
 FOR MODEL C DETAILS REFER TO: SHEET 6 AND 7 OF 11



**MODEL D**  
 SOLID WOOD PANEL FRENCH SWING-OUT DOOR  
 DESIGNED LOADS = +53 PSF, -70 PSF  
 FOR MODEL D DETAILS REFER TO: SHEET 8 AND 9 OF 11



**MODEL E**  
 FULL ARCHED FRENCH SWING-OUT DOOR  
 DESIGNED LOADS = +75 PSF, -83 PSF  
 FOR MODEL E DETAILS REFER TO: SHEET 10 AND 11 OF 11

PRODUCT RENEWED  
 as complying with the Florida Building Code  
 Acceptance No 08-0922.05  
 Expiration Date 10/07/2009  
 By *[Signature]*  
 Miami Dade Product Control Division

PRODUCT RENEWED  
 as complying with the Florida Building Code  
 Acceptance No 07-0911.01  
 Expiration Date 10/07/2008  
 By *[Signature]*  
 Miami Dade Product Control Division

MANUFACTURER:  
**Sabana Windows**

6157 NW 167TH STREET  
 UNIT F-25  
 MIAMI LAKES, FLORIDA 33015  
 PH: (305) 825-1256  
 FAX: (305) 825-3805

PRODUCT:  
**Mahogany Impact Swing-Out Door**

Engineering:  
**EngCo Inc.**

CA 8116  
 6971 W. Sunrise Blvd. 104  
 Plantation, FL 33313  
 Tel.: (954) 585-0304  
 Fax: (954) 585-0305

*[Signature]*  
**SEP 28 2005**  
 Engineer Seal  
 Pedro De Figueredo  
 PE 52609

Date: 9/27/05  
 Scale: NA  
 Design by: PPMF

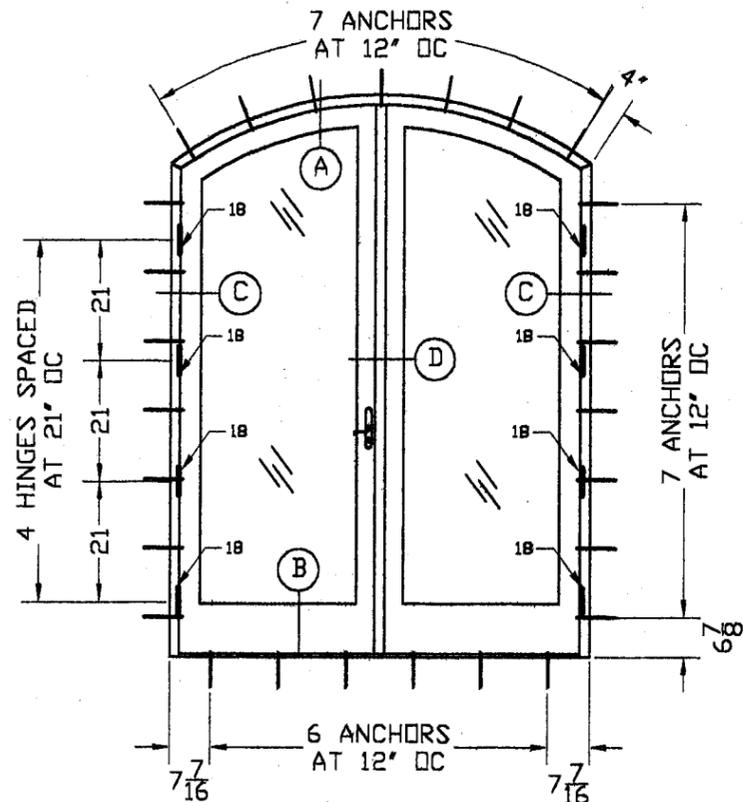
Miami Dade Office:

PRODUCT REVISED  
 as complying with the Florida Building Code  
 Acceptance No 05-0930.02  
 Expiration Date 10/07/10  
*[Signature]*  
 Miami Dade Product Control Division

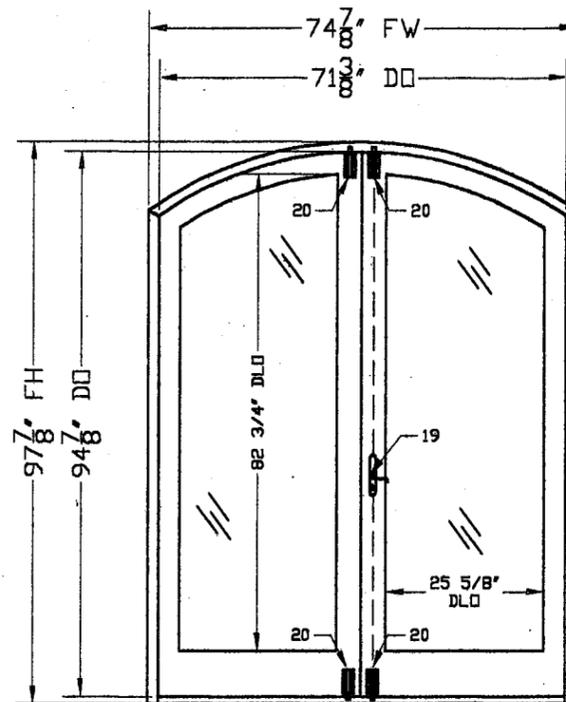
Drawing Number  
**05-309**

Sheet  
 1 of 11

OUTSIDE ELEVATION



INSIDE ELEVATION



MODEL A - ELLIPSE FRENCH SWING-OUT DOOR  
DESIGNED LOADS = +53 PSF, -70 PSF

MAX. FRAME SIZE = 74 7/8" X 97 7/8" X 6" DEEP FRAME  
MAX. PANEL SIZE = 35 5/16" X 95 7/16" X 2 1/8" DEEP  
MAX. GLASS SIZE = 27 1/4" X 84 1/4" X .511" THICK  
MAX. GLASS DLO = 25 5/8" X 82 3/4"  
WATER TEST PRESSURE: ±8 PSF (53.33 DP)

INSTALLATION NOTES:

- ANCHOR: 1/4" TAPCON BY ELCO  
SUBSTRATUM EMBEDMENT  
WOOD (SG) = .55 1 1/2"  
CONCRETE (3320 psi) 1 1/4"  
MASONRY BLOCK 1 1/4"
- QUANTITY & SPACING AS PER ELEVATION
- 1X OR 2X WOOD BUCK TO BE DESIGNED BY OTHERS FOR IMPOSED LOADS.

SEE SHEET 3 OF 11 FOR DETAILS

BILL OF MATERIALS			
ITEM#	DESCRIPTION	SIZE	MATERIAL & REMARKS
1	FRAME HEADER	1.75' x 6.00' x 1.50'	MAHOGANY WOOD
2	FRAME SILL	1.25' x 6.00' x 0.50'	MAHOGANY WOOD
3	FRAME JAMB	1.75' x 6.00' x 1.25'	MAHOGANY WOOD
4	PANEL TOP RAIL	2.13' x 5.00' x 3.50'	MAHOGANY WOOD
5	PANEL BOTTOM RAIL	2.13' x 7.50' x 5.38'	MAHOGANY WOOD
6	PANEL HINGE STILE	2.13' x 5.00' x 4.50'	MAHOGANY WOOD
7	PANEL LOCK STILE	2.13' x 5.00' x 3.75'	MAHOGANY
8	PANEL ASTRAGAL STILE	2.13' x 5.00' x 4.00'	MAHOGANY
9	MAHOGANY WOOD BEAD	1.00' x 0.75'	Attached w/ #8x 1 1/2" wd screws
10	MAHOGANY WOOD BEAD	0.75' x 1.00'	Attached w/ #8x 1 1/2" wd screws
11	MAHOGANY WOOD ASTRAGAL	1.13' x 1.75'	Attached w/ #10x 2" wd screws at 12" oc
12	CLOSED CELL FOAM STRIP	0.5' x .625'	FOAM TAPE FULL LENGTH OF SILL
13	Q' LON SEAL @ FRAME/PANELS	.58' x 0.65'	SCHLEGEL #QDS-650
14	Q' LON SEAL @ PANELS RAILS	.335' x .336'	SCHLEGEL #QEZ320
15	SEALANT CLEAR SILICONE		GE STOCK 012A
16	1/2" LAMINATED GLASS	.511" THICK	GLASSLAM
17	GLAZING CLEAR SILICONE	.90x.051	DOW CORNING 995

HARDWARE SCHEDULE	
HINGES <18>	<4 HINGES/JAMB> 2 3/4" w X 4" h X .068" HINGES @ 21' OC CONNECTED TO PANEL AND FRAME WITH <8> #10X 1 1/2" WOOD SCREWS
ACTIVE STILE<	<19> SCHELEGEL MULTI-BOLT LOCK WITH BRASS KEEP SET, 52 MM BA 10' FULL LENGTH STAINLESS. THE STRIKE PLATE WAS 1/4" THICK STEEL. <20> NATIONAL .611" DIA. THROW CONNECTED WITH <6> 1/4-20 SS MS AND NUTS.
INACTIVE STILE<	<20> NATIONAL .611" DIA. THROW CONNECTED WITH <6> 1/4-20 SS MS AND NUTS.

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MANUFACTURER:  
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UNIT F-25  
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33015  
PH: (305) 825-1256  
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PRODUCT:  
**Mahogany  
Impact  
Swing-Out  
Door**

Engineering:  
**EngCo Inc.**

CA 8116  
6971 W. Sunrise Blvd. 104  
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SEP 28 2005

Engineer Seal  
Pedro De Figueredo  
PE 52609

Date: 9/27/05  
Scale: NA  
Design by: PPMF

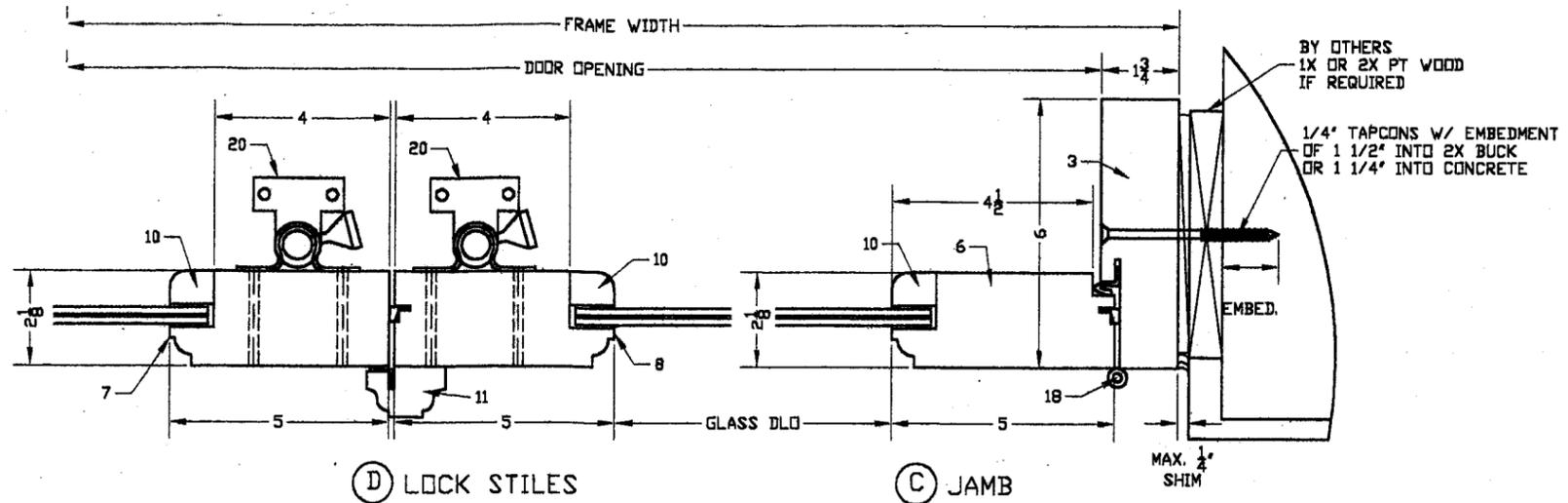
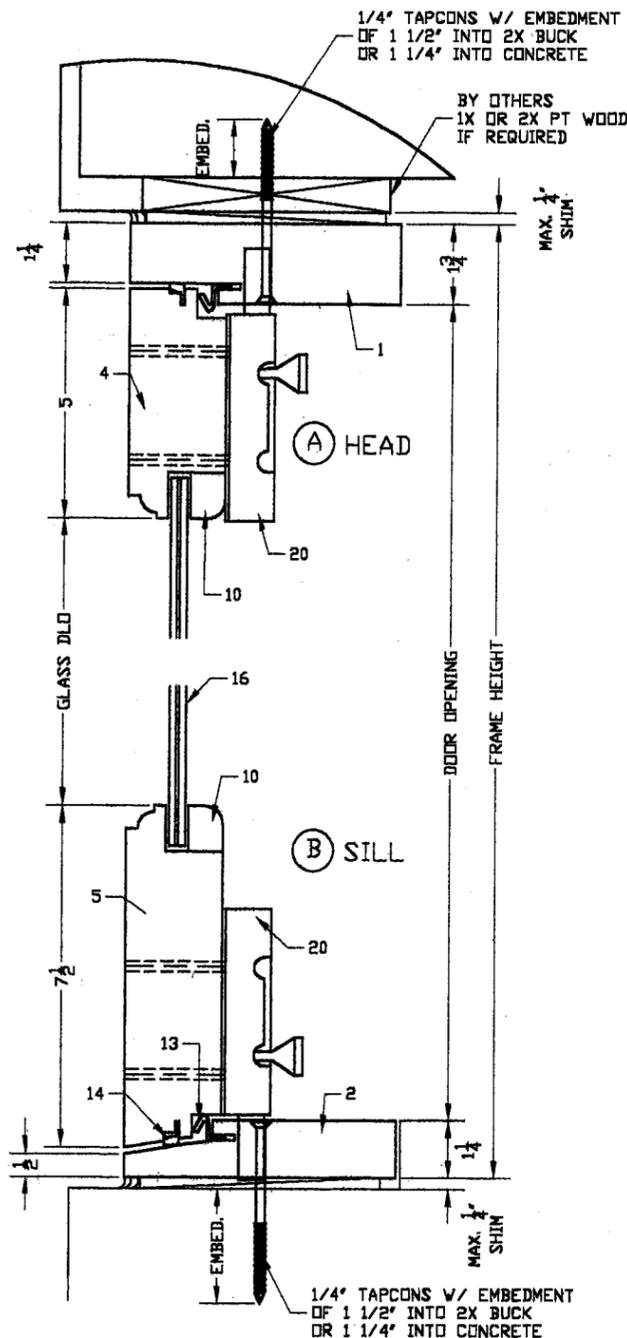
Miami Dade Office:

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Expiration Date 10/07/2007  
By *[Signature]*  
Miami Dade Product Control  
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Drawing Number  
05-309

Sheet  
2 of 11

MODEL A - ELLIPSE FRENCH SWING DOOR  
 DESIGNED LOADS = +53 PSF, -70 PSF



**GLASS DESCRIPTION:** *II* *Se.* 08-0709.04

1- GLASSLAM SAFETY PLUS X - MIAMI-DADE NOA ~~00-0524-06~~

- (1) 3/16" ANNEALED GLASS SHEET +
- (1) .063" RESIN BY GLASSLAM +
- (1) .010" SAFETY-PLUS POLYESTER INTERLAYER +
- (1) .063" RESIN BY GLASSLAM +
- (1) 3/16" ANNEALED GLASS SHEET

2- GLAZING METHOD:  
 GLASS GLAZED WITH SILICONE DOW CORNING #995 0.9 X .051 THICK OVER A 3/4" GLASS BITE.

1 X 3/4" WOOD BEAD WAS CONNECTED TO THE RAILS & STILES WITH #8X 1 1/2" WOOD SCREWS.

- BOTTOM RAIL - (5) SCREWS AT 5" OC
- TOP RAIL - (5) SCREWS AT 6 1/2" OC
- LOCK STILE - (11) SCREWS AT 7 1/2" OC
- HINGE STILE - (10) SCREWS AT 7 1/8" OC

**FRAME & PANEL GENERAL NOTES**

1- FRAME ASSEMBLY NOTES:  
 EACH SOLID MAHOGANY WOOD FRAME HEAD, SILL & JAMBS ARE 6" DEEP AND THE CORNERS ARE BUTT JOINED WITH WOOD GLUE AND FASTENED WITH (4) #14X3" WOOD SCREWS IN EACH CORNER.

2- PANEL ASSEMBLY NOTES:  
 EACH SOLID MAHOGANY WOOD STILE & RAIL IS 2 1/8" DEEP AND THE CORNERS, 1/2" thick x3"x3" TENDON AND WOOD GLUE JOINT.

3- INSTALLATION SEALANT NOTES:  
 THE FRAME AND ALL EXPOSED INSTALLATION FASTENERS MUST BE PROPERLY SEALED WITH 'GE' STOCK GEO12A SILICONE.

MANUFACTURER:  
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PRODUCT:  
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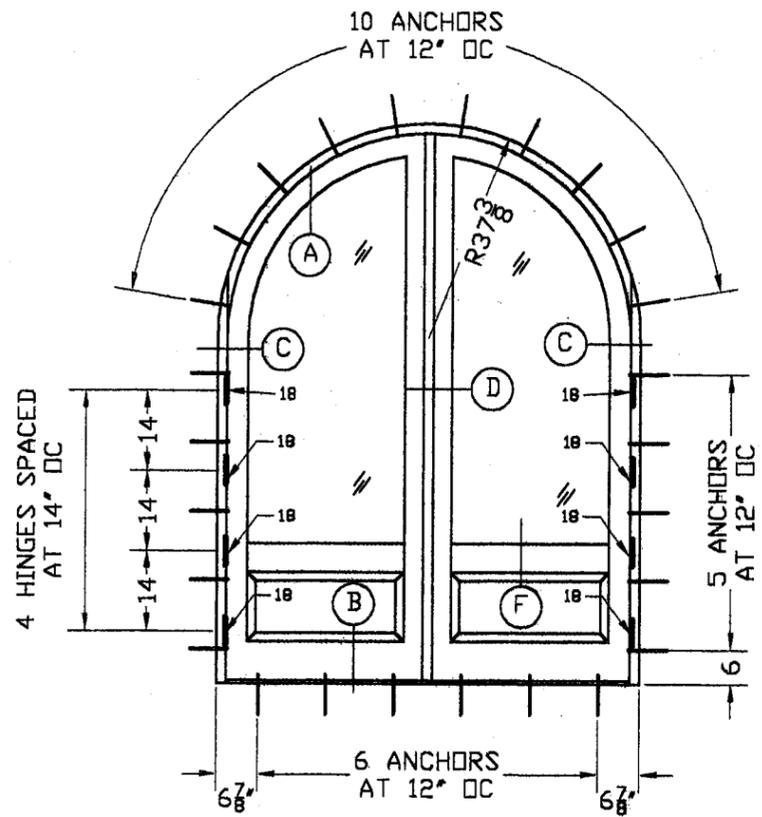
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**05-309**

Sheet  
**3 of 11**

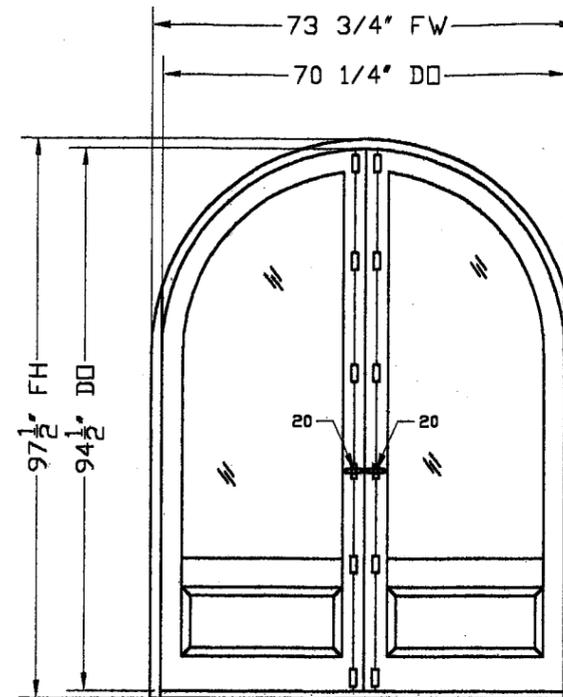
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 By *[Signature]*  
 Miami Dade Product Control Division

PRODUCT RENEWED  
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 Acceptance No 07-0911.01  
 Expiration Date 10/07/2008  
 By *[Signature]*  
 Miami Dade Product Control Division

OUTSIDE ELEVATION



INSIDE ELEVATION



MODEL B - FULL ARCHED FRENCH SWING-OUT DOOR  
DESIGNED LOADS = +53 PSF, -70 PSF

MAX. FRAME SIZE = 73 3/4" X 97 1/2" X 6" DEEP FRAME  
MAX. PANEL SIZE = 36 5/16" X 95 7/16" X 2 1/8" DEEP  
MAX. GLASS SIZE = 27 1/4" X 84 1/4" X .511" THICK  
MAX. GLASS DLO = 25 3/4" X 82 3/4"  
WATER TEST PRESSURE: ±8 PSF (53.33 DP)

INSTALLATION NOTES:

- ANCHOR: 1/4" TAPCON BY ELCO  
SUBSTRATUM EMBEDMENT  
WOOD (SG) = 55 1 1/2"  
CONCRETE (3320 psi) 1 1/4"  
MASONRY BLOCK 1 1/4"
- QUANTITY & SPACING AS PER ELEVATION
- 1X OR 2X WOOD BUCK TO BE DESIGNED BY OTHERS FOR IMPOSED LOADS.

SEE SHEET 5 OF 11 FOR DETAILS

BILL OF MATERIALS

ITEM#	DESCRIPTION	SIZE	MATERIAL & REMARKS
1	FRAME HEADER	1.75' x 6.00' x 1.50'	MAHOGANY WOOD
2	FRAME SILL	1.25' x 6.00' x 0.50'	MAHOGANY WOOD
3	FRAME JAMB	1.75' x 6.00' x 1.25'	MAHOGANY WOOD
4	PANEL TOP RAIL	2.13' x 5.00' x 3.25'	MAHOGANY WOOD
5	PANEL BOTTOM RAIL	2.13' x 7.50' x 6.13'	MAHOGANY WOOD
6	PANEL HINGE STILE	2.13' x 5.00' x 3.38'	MAHOGANY WOOD
7	PANEL LOCK STILE	2.13' x 5.00' x 4.13'	MAHOGANY
8	RAISED PANEL HDR. STILE	2.13' x 6.00' x 5.00'	MAHOGANY
9	MAHOGANY WOOD BEAD	1.00' x 0.75'	Attached w/ #8x 1 1/2" wd screws
10	MAHOGANY WOOD BEAD	0.75' x 1.00'	Attached w/ #8x 1 1/2" wd screws
11	MAHOGANY WOOD ASTRAGAL	1.13' x 1.75'	Attached w/ #10x 2" wd screws at 12" oc
12	CLOSED CELL FOAM STRIP	0.5' x .625'	FOAM TAPE FULL LENGTH OF SILL
13	Q' LON SEAL @ FRAME/PANELS	.58' x 0.65'	SCHLEGEL #QDS-650
14	Q' LON SEAL @ PANELS RAILS	.335' x .336'	SCHLEGEL #QEZ320
15	WOOD RAISED PANEL	1.50' x 27.5' x 12"	SOLID PINE
16	1/2" LAMINATED GLASS	.511" THICK	GLASSLAM
17	GLAZING CLEAR SILICONE	.90x.051	DOW CORNING 995

HARDWARE SCHEDULE

HINGES <18>  
<4 HINGES/JAMB> 2 3/4" w X 4" h X .068" HINGES @ 14" OC CONNECTED TO PANEL AND FRAME W/ (8) #10X 1 1/2" WS

ACTIVE & INACTIVE STILE:  
<20> CENTER HANDLE ROUSTIQUE ARTICLE CODE 042100 MODEL RY 59 FASTENED W/ (4) #10X 1 1/4" (7) 2.4" X 1.656" CLASSIC GUIDES (STEEL) W/ (2) #10X 1 1/4" EXCEPT TOP AND BOTTOM HAD (2) 1/8" X 3" MS W/ DOUBLE NUTS. THE STRIKE PLATE WAS 1/4" THICK STEEL.  
1/2" LOCKING THROW WAS A .625" DIAM SEMI-TUBE X 154" X 35" LONG AT BOTTOM AND 57.5" LONG AT TOP. ALSO, THE TOP AND BOTTOM ENDS (3") WERE FILLED WITH A WELDED 1/8" WIDE STEEL PLATE.

MANUFACTURER:  
**Sabana Windows**

6157 NW 167TH STREET  
UNIT F-25  
MIAMI LAKES, FLORIDA 33015  
PH: (305) 825-1256  
FAX: (305) 825-3805

PRODUCT:  
**Mahogany Impact Swing-Out Door**

Engineering:  
**EngCo Inc.**

CA 8116  
6971 W. Sunrise Blvd. 104  
Plantation, FL 33313  
Tel.: (954) 585-0304  
Fax: (954) 585-0305

SEP 28 2005  
Engineer Seal  
Pedro De Figueiredo  
PE 52609

Date: 9/27/05  
Scale: NA  
Design by: PPMF

Miami Dade Office:

PRODUCT RENEWED  
as complying with the Florida Building Code  
Acceptance No. 05-0930.02  
Expiration Date 10/07/07  
By: *[Signature]*  
Miami Dade Product Control Division

PRODUCT RENEWED  
as complying with the Florida Building Code  
Acceptance No. 08-0922.05  
Expiration Date 10/07/2009  
By: *[Signature]*  
Miami Dade Product Control Division

PRODUCT RENEWED  
as complying with the Florida Building Code  
Acceptance No. 07-0911.01  
Expiration Date 10/07/2008  
By: *[Signature]*  
Miami Dade Product Control Division

Drawing Number  
**05-309**

Sheet  
4 of 11

MANUFACTURER:  
**Sabana  
Windows**

6157 NW 167TH STREET  
UNIT F-25  
MIAMI LAKES, FLORIDA  
33015  
PH: (305) 825-1256  
FAX: (305) 825-3805

PRODUCT:  
**Mahogany  
Impact  
Swing-Out  
Door**

Engineering:  
**EngCo Inc.**

CA 8116  
6971 W. Sunrise Blvd. 104  
Plantation, FL 33313  
Tel.: (954) 585-0304  
Fax: (954) 585-0305

*[Signature]*  
**SEP 28 2005**

Engineer Seal  
Pedro De Figueiredo  
PE 52609

Date: 9/27/05  
Scale: NA  
Design by: PPMF

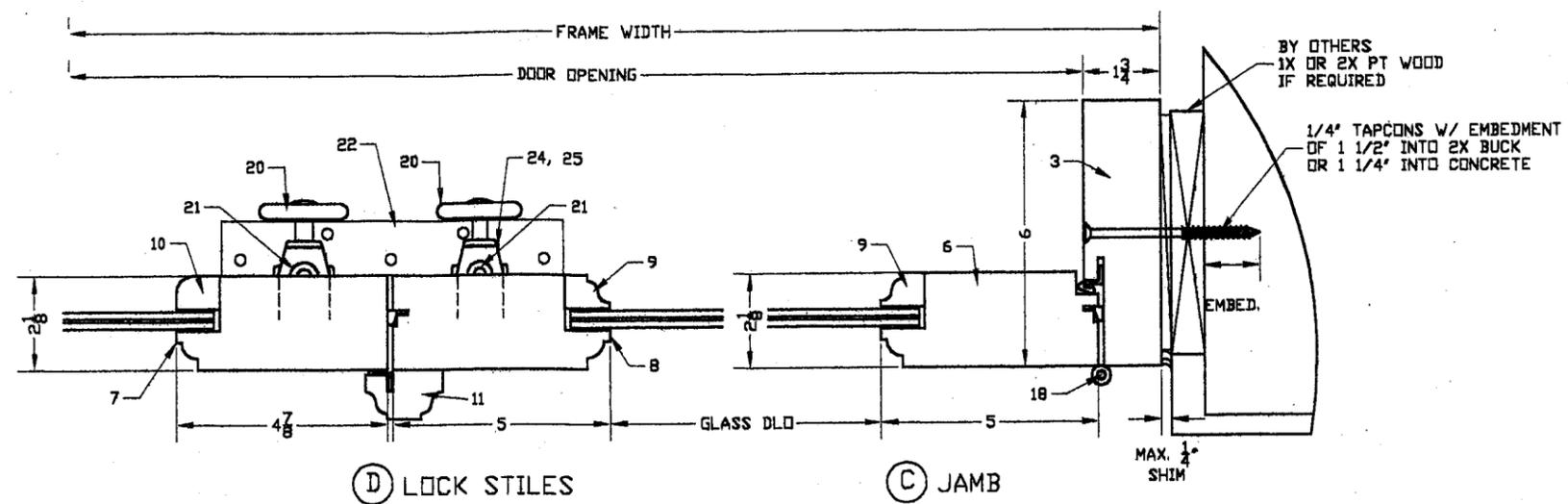
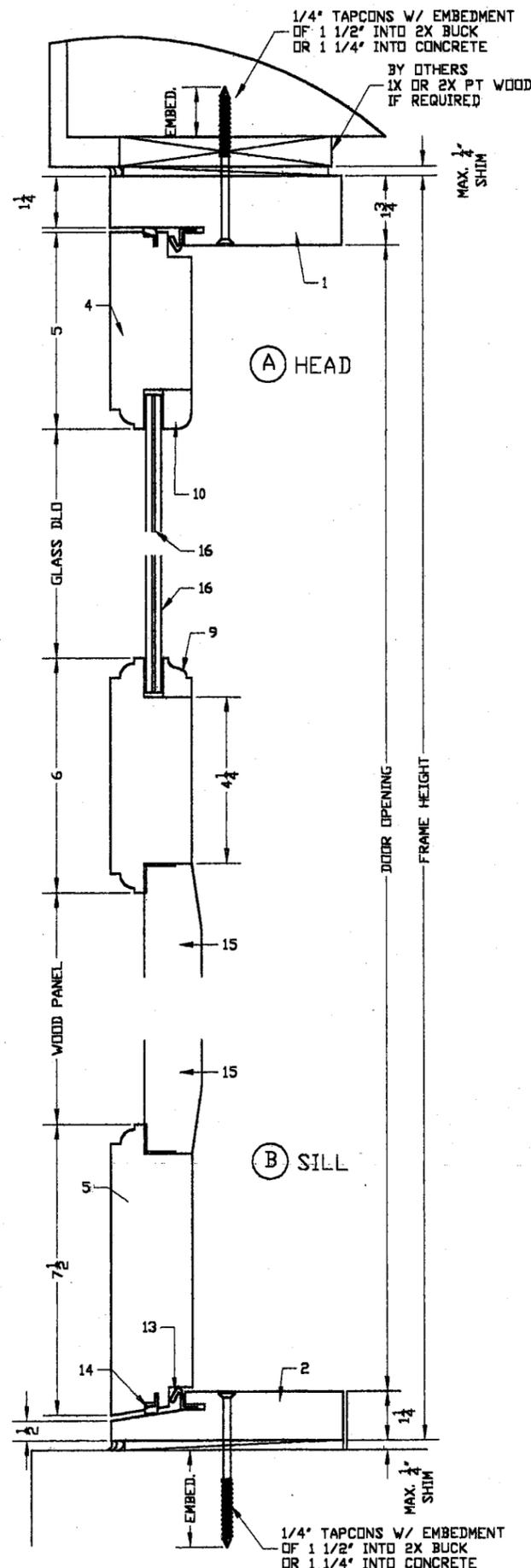
Miami Dade Office:

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. **05-0930.02**  
Expiration Date **10/07/2007**  
By *[Signature]*  
Miami Dade Product Control  
Division

Drawing Number  
**05-309**

Sheet  
**5 of 11**

**MODEL B - FULL ARCHED FRENCH SWING-OUT DOOR**  
DESIGNED LOADS = +53 PSF, -70 PSF



**GLASS DESCRIPTION:** *SCIT* *Se.* **08-0709.04**

1- GLASSLAM SAFETY PLUS ~~X~~ - MIAMI-DADE NOA ~~00-0524-06-~~

- (1) 3/16" ANNEALED GLASS SHEET +
- (1) .063" RESIN BY GLASSLAM +
- (1) .010" SAFETY-PLUS POLYESTER INTERLAYER +
- (1) .063" RESIN BY GLASSLAM +
- (1) 3/16" ANNEALED GLASS SHEET

2- GLAZING METHOD:  
GLASS GLAZED WITH SILICONE DOW CORNING #995 0.9 X .051 THICK OVER A 3/4" GLASS BITE.  
1 X 3/4" WOOD BEAD WAS CONNECTED TO THE RAILS & STILES WITH #8X 1 1/2" WOOD SCREWS.

- BOTTOM RAIL - (5) SCREWS AT 5" OC
- TOP RAIL - (7) SCREWS AT 6 1/2" OC
- LOCK STILE - (9) SCREWS AT 7 1/8" OC
- HINGE STILE - (4) SCREWS AT 9 5/16" OC

3- WOOD PANEL:  
27 1/2" X 12 X 1 1/2" THICK SOLID PINE WOOD PANEL PLACED IN A 3/4" X 1 1/4" BEDDING IN RAILS AND STILES AND A 3/4" X 3/4" X .051" THICK CONTINUOUS GE WINDOW & DOOR STOCK #GE12A CLEAR SILICONE BEAD.

**FRAME & PANEL GENERAL NOTES**

1- FRAME ASSEMBLY NOTES:  
EACH SOLID MAHOGANY WOOD FRAME HEAD, SILL & JAMBS ARE 6" DEEP AND THE CORNERS ARE BUTT JOINED WITH WOOD GLUE AND FASTENED WITH (4) #14X3" WOOD SCREWS IN EACH CORNER.

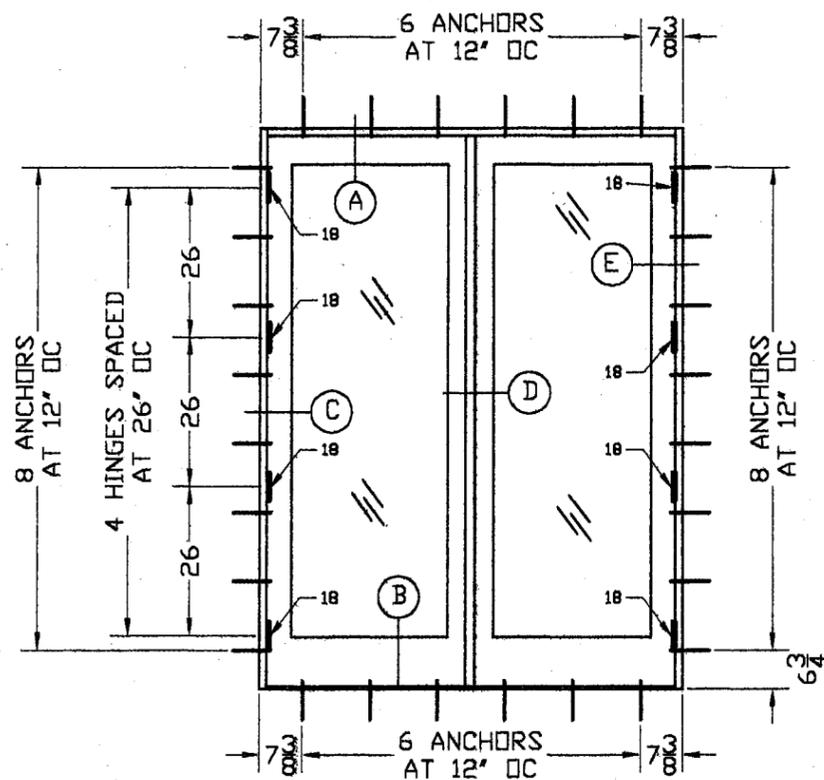
2- PANEL ASSEMBLY NOTES:  
EACH SOLID MAHOGANY WOOD STILE & RAIL IS 2 1/8" DEEP AND THE CORNERS, 1/2" THICK X3" X3" TENDON AND WOOD GLUE JOINT.

3- INSTALLATION SEALANT NOTES:  
THE FRAME AND ALL EXPOSED INSTALLATION FASTENERS MUST BE PROPERLY SEALED WITH "GE" STOCK GE012A SILICONE.

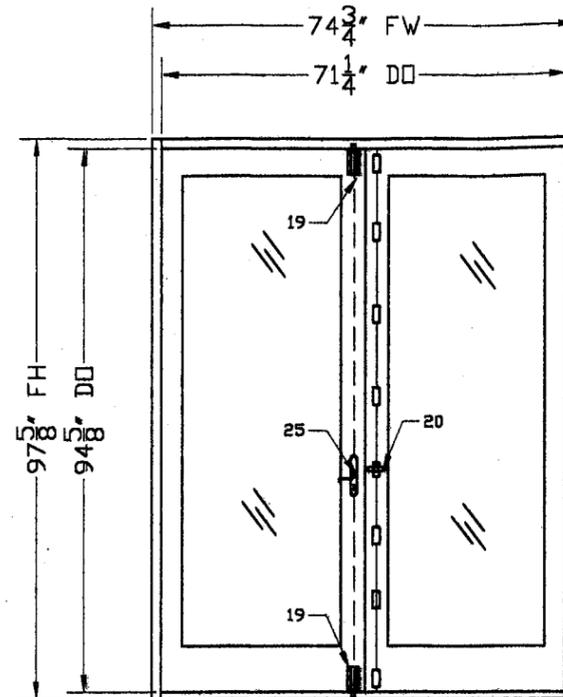
PRODUCT RENEWED  
as complying with the Florida  
Building Code  
Acceptance No. **08-0922.05**  
Expiration Date **10/07/2009**  
By *[Signature]*  
Miami Dade Product Control  
Division

PRODUCT RENEWED  
as complying with the Florida  
Building Code  
Acceptance No. **07-0911.01**  
Expiration Date **10/07/2008**  
By *[Signature]*  
Miami Dade Product Control  
Division

OUTSIDE ELEVATION



INSIDE ELEVATION



MODEL C - SQUARE FRENCH SWING-OUT DOOR  
DESIGNED LOADS = +53 PSF, -70 PSF

MAX. FRAME SIZE = 74 3/4" X 97 5/8" X 6" DEEP FRAME  
MAX. PANEL SIZE = 35 15/16" X 95 7/16" X 2 1/8" DEEP  
MAX. GLASS SIZE = 26 3/4" X 84 1/4" X .511" THICK  
WATER TEST PRESSURE: ±8 PSF (53.33 DP)

INSTALLATION NOTES:

- ANCHOR: 1/4" TAPCON BY ELCO  
SUBSTRATUM EMBEDMENT  
WOOD (SG) = 55 1 1/2"  
CONCRETE (3320 psi) 1 1/4"  
MASONRY BLOCK 1 1/4"
- QUANTITY & SPACING AS PER ELEVATION
- 1X OR 2X WOOD BUCK TO BE DESIGNED BY OTHERS FOR IMPOSED LOADS.

SEE SHEET 7 OF 11 FOR DETAILS

MANUFACTURER:  
**Sabana  
Windows**

6157 NW 167TH STREET  
UNIT F-25  
MIAMI LAKES, FLORIDA  
33015  
PH: (305) 825-1256  
FAX: (305) 825-3805

PRODUCT:  
**Mahogany  
Impact  
Swing-Out  
Door**

Engineering:  
**EngCo Inc.**  
CA 8116  
6971 W. Sunrise Blvd. 104  
Plantation, FL 33313  
Tel.: (954) 585-0304  
Fax: (954) 585-0305

BILL OF MATERIALS			
ITEM#	DESCRIPTION	SIZE	MATERIAL & REMARKS
1	FRAME HEADER	1.75' x 6.00' x 1.25'	MAHOGANY WOOD
2	FRAME SILL	1.25' x 6.00' x 0.63'	MAHOGANY WOOD
3	FRAME JAMB	1.75' x 6.00' x 1.25'	MAHOGANY WOOD
4	PANEL TOP RAIL	2.13' x 5.00' x 3.50'	MAHOGANY WOOD
5	PANEL BOTTOM RAIL	2.13' x 7.50' x 5.63'	MAHOGANY WOOD
6	PANEL HINGE STILE	2.13' x 5.00' x 3.94'	MAHOGANY WOOD
7	PANEL LOCK STILE	2.13' x 5.00' x 4.00'	MAHOGANY
8	-	-	-
9	MAHOGANY WOOD BEAD	1.00' x 0.75'	Attached w/ #8x 1 1/2" wd screws
10	MAHOGANY WOOD BEAD	0.75' x 1.00'	Attached w/ #8x 1 1/2" wd screws
11	MAHOGANY WOOD ASTRAGAL	1.13' x 1.75'	Attached w/ #10x 2" wd screws at 12" oc
12	CLOSED CELL FOAM STRIP	0.5' x .625'	FOAM TAPE FULL LENGTH OF SILL
13	Q'LDN SEAL @ FRAME/PANELS	.58' x 0.65'	SCHLEGEL #QDS-650
14	Q'LDN SEAL @ PANELS RAILS	.335' x .336'	SCHLEGEL #QEZ320
15	SEALANT - CLEAR SILICONE		GE STOCK #012A
16	1/2" LAMINATED GLASS	.511' THICK	GLASSLAM
17	GLAZING CLEAR SILICONE	.90x.051	DOW CORNING 995

HARDWARE SCHEDULE	
HINGES <18>	(4 HINGES/JAMB) JARDINIER MASSARD, FRANCE, #23 SPACED AT 26" OC ATTACHED TO PANEL W/ (8) #10X 1 1/2" WS
ACTIVE STILE:	CENTER HANDLE <20> ROUSTIQUE ARTICLE CODE 042100 MODEL RY 59 FASTENED W/ (4) #10X 1 1/4" (7) 2.4" X 1.656" CLASSIC GUIDES (STEEL) W/ (2) #10X 1 1/4" EXCEPT TOP AND BOTTOM HAD (2) 1/8" X 3" MS W/ DOUBLE NUTS. THE STRIKE PLATE WAS 1/4" THICK STEEL. 1/2" LOCKING THROW WAS A .625" DIAM SEMI-TUBE X .154" X 35" LONG AT BOTTOM AND 57.5" LONG AT TOP. ALSO, THE TOP AND BOTTOM ENDS (3") WERE FILLED WITH A WELDED 1/8" WIDE STEEL PLATE.
INACTIVE STILE:	<19> NATIONAL .611" DIA. THROW CONNECTED WITH (6) 1/4"-20 SS MS AND NUTS. <25> SCHELEGEL MULTI-BOLT LOCK WITH BRASS KEEP SET, 52 MM BA 8" FULL LENGTH STAINLESS.

SEP 28 2005  
Engineer Seal  
Pedro De Figueiredo  
PE 52609

Date: 9/27/05  
Scale: NA  
Design by: PPMF

Miami Dade Office:

PRODUCT RENEWED  
as complying with the Florida  
Building Code  
Acceptance No 05-0930.02  
Expiration Date 10/07/2009  
By *M. Khalil*  
Miami Dade Product Control  
Division

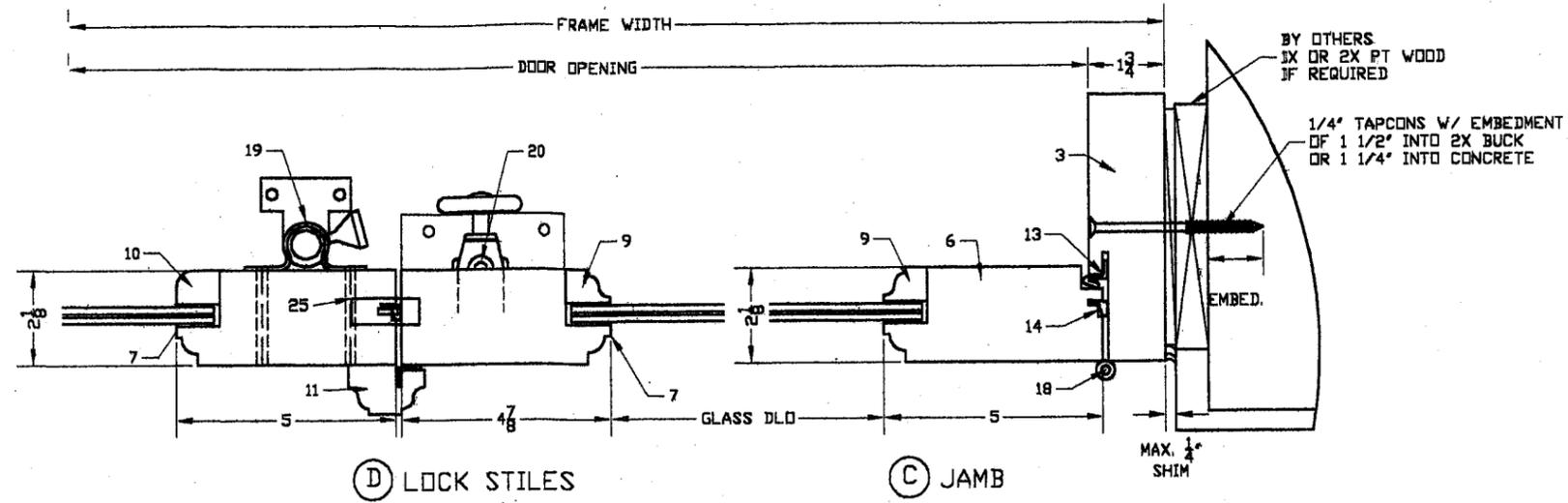
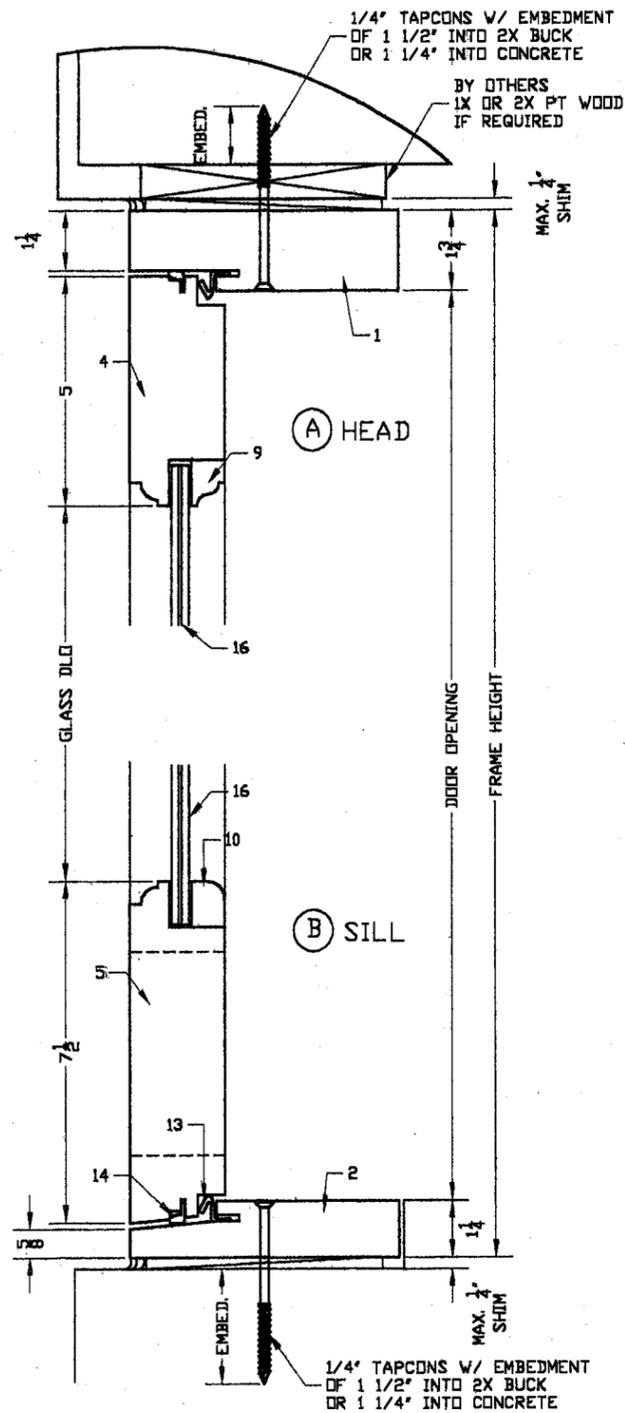
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Acceptance No 08-0922.05  
Expiration Date 10/07/2009  
By *V. L. ...*  
Miami Dade Product Control  
Division

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as complying with the Florida  
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Expiration Date 10/07/2008  
By *V. L. ...*  
Miami Dade Product Control  
Division

Drawing Number  
05-309

Sheet  
6 of 11

MODEL C - SQUARE FRENCH SWING-OUT DOOR  
 DESIGNED LOADS = +53 PSF, -70 PSF



**GLASS DESCRIPTION:** *Stc.* 08-0709.04

1- GLASSLAM SAFETY PLUS *Stc.* - MIAMI-DADE NOA 08-0524-06  
 (1) 3/16" ANNEALED GLASS SHEET +  
 (1) .063" RESIN BY GLASSLAM +  
 (1) .010" SAFETY-PLUS POLYESTER INTERLAYER +  
 (1) .063" RESIN BY GLASSLAM +  
 (1) 3/16" ANNEALED GLASS SHEET

2- GLAZING METHOD:  
 GLASS GLAZED WITH SILICONE DOW CORNING #995 0.9 X .051 THICK OVER A 3/4" GLASS BITE.  
 1 X 3/4" WOOD BEAD WAS CONNECTED TO THE RAILS & STILES WITH #8X 1 1/2" WOOD SCREWS.

BOTTOM RAIL - (5) SCREWS AT 5" OC  
 TOP RAIL - (5) SCREWS AT 5" OC  
 LOCK STILE - (12) SCREWS AT 7 1/2" OC  
 HINGE STILE - (12) SCREWS AT 7 1/2" OC

**FRAME & PANEL GENERAL NOTES**

1- FRAME ASSEMBLY NOTES:  
 EACH SOLID MAHOGANY WOOD FRAME HEAD, SILL & JAMBS ARE 6" DEEP AND THE CORNERS ARE BUTT JOINED WITH WOOD GLUE AND FASTENED WITH (4) #14X3" WOOD SCREWS IN EACH CORNER.

2- PANEL ASSEMBLY NOTES:  
 EACH SOLID MAHOGANY WOOD STILE & RAIL IS 2 1/8" DEEP AND THE CORNERS, 1/2" THICK X3" X3" TENDON AND WOOD GLUE JOINT.

3- INSTALLATION SEALANT NOTES:  
 THE FRAME AND ALL EXPOSED INSTALLATION FASTENERS MUST BE PROPERLY SEALED WITH 'GE' STOCK GE012A SILICONE.

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 Expiration Date 10/07/2008  
 By *[Signature]*  
 Miami Dade Product Control Division

MANUFACTURER:  
**Sabana Windows**  
 6157 NW 167TH STREET  
 UNIT F-25  
 MIAMI LAKES, FLORIDA 33015  
 PH: (305) 825-1256  
 FAX: (305) 825-3805

PRODUCT:  
**Mahogany Impact Swing-Out Door**

Engineering:  
**EngCo Inc.**  
 CA 8116  
 6971 W. Sunrise Blvd. 104  
 Plantation, Fl. 33313  
 Tel.: (954) 585-0304  
 Fax: (954) 585-0305

*[Signature]*  
**SEP 28 2005**  
 Engineer Seal  
 Pedro De Figueiredo  
 PE 52609

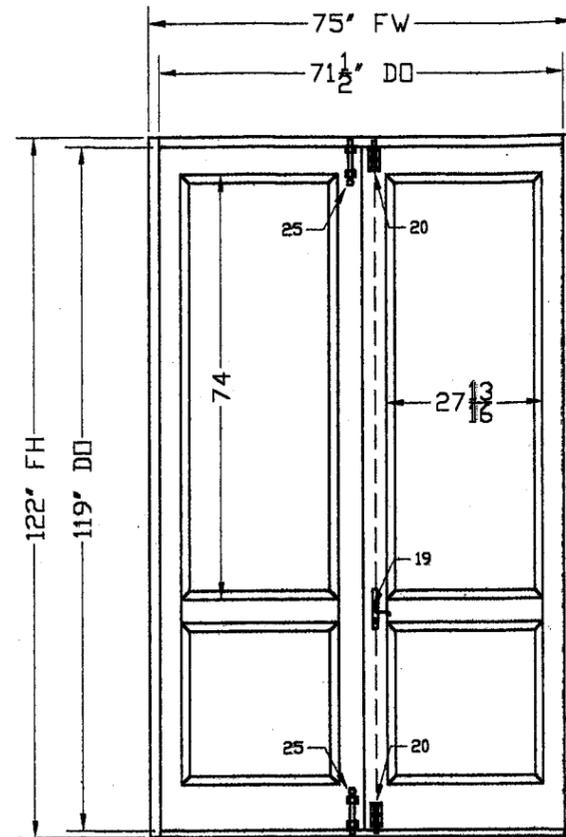
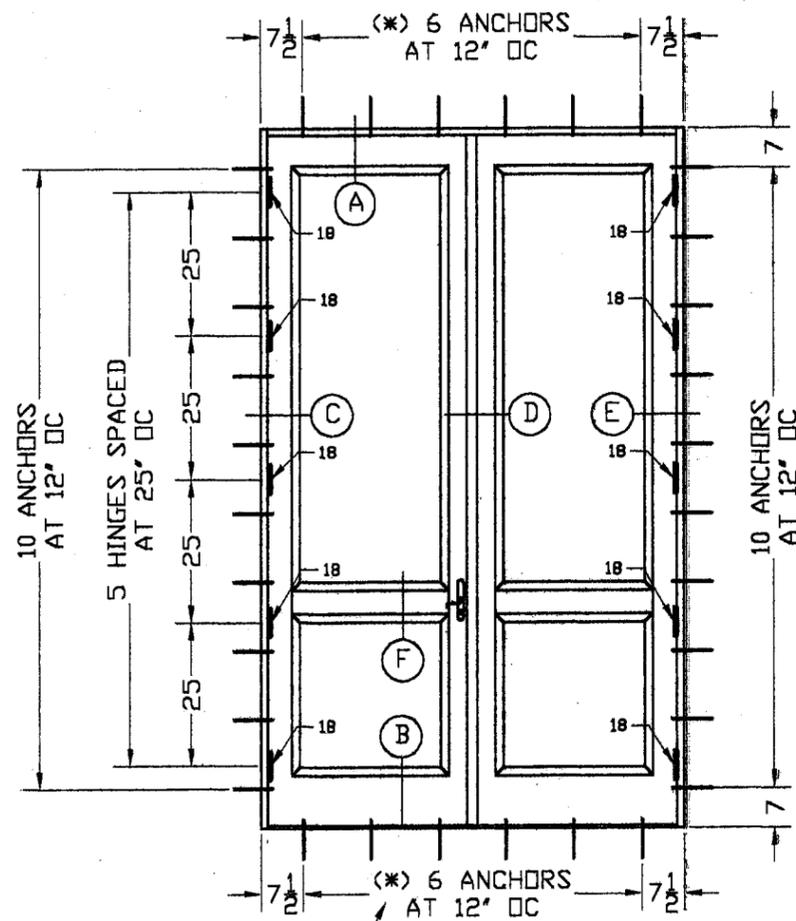
Date: 9/27/05  
 Scale: NA  
 Design by: PPMF

Miami Dade Office:  
**PRODUCT REVISED**  
 as complying with the Florida Building Code  
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 Expiration Date 10/03/07  
 By *[Signature]*  
 Miami Dade Product Control Division

Drawing Number  
**05-309**

Sheet  
**7 of 11**

OUTSIDE ELEVATION



INSIDE ELEVATION

MODEL D - SOLID WOOD PANEL FRENCH SWING-OUT DOOR  
 DESIGNED LOADS = +53 PSF, -70 PSF

MAX. FRAME SIZE = 75' X 122' X 6' DEEP FRAME  
 MAX. PANEL SIZE = 35 15/16' X 120 5/16' X 2 1/8' DEEP  
 MAX. SOLID RAISED PANEL = 27 13/16 X 74 X 1 1/2' THICK  
 WATER TEST PRESSURE: ±8 PSF (53.33 DP)

INSTALLATION NOTES:  
 1- ANCHOR: 1/4" TAPCON BY ELCO  
 SUBSTRATUM EMBEDMENT  
 WOOD (SG)= 55 1 1/2"  
 CONCRETE (3320 psi) 1 1/4"  
 MASONRY BLOCK 1 1/4"  
 2- QUANTITY & SPACING AS PER ELEVATION  
 3- 1X OR 2X WOOD BUCK TO BE DESIGNED BY OTHERS FOR IMPOSED LOADS.

SEE SHEET 9 OF 11 FOR DETAILS

(\*) INCREASE AMOUNT OF ANCHORS TO 7 AT 10 1/2" OC WHEN HEADER/SILL FRAMING ARE ANCHORED INTO CONCRETE WITH 1X WOOD BUCK

ITEM#	DESCRIPTION	SIZE	MATERIAL & REMARKS
1	FRAME HEADER	1. 75' x 6. 00' x 1. 25'	MAHOGANY WOOD
2	FRAME SILL	1. 25' x 6. 00' x 0. 50'	MAHOGANY WOOD
3	FRAME JAMB	1. 75' x 6. 00' x 1. 25'	MAHOGANY WOOD
4	PANEL TOP RAIL	2. 13' x 5. 25' x 4. 25'	MAHOGANY WOOD
5	PANEL BOTTOM RAIL	2. 13' x 9. 75' x 9. 50'	MAHOGANY WOOD
6	PANEL HINGE STILE	2. 13' x 4. 89' x 3. 89'	MAHOGANY WOOD
7	PANEL LOCK STILE	2. 13' x 5. 13' x 4. 13'	MAHOGANY
8	RAISE PNL HOR. STILE	2. 13' x 6. 00' x 4. 00'	MAHOGANY
9	MAHOGANY WOOD BEAD	1. 00' x 0. 75'	Attached w/ #8x 1 1/2" wd screws
10	MAHOGANY WOOD BEAD	0. 75' x 1. 00'	Attached w/ #8x 1 1/2" wd screws
11	MAHOGANY WOOD ASTRAGAL	1. 13' x 1. 75'	Attached w/ #10x 2" wd screws at 12" oc
12	CLOSED CELL FOAM STRIP	0. 5' x . 625'	FOAM TAPE FULL LENGTH OF SILL
13	Q' LON SEAL @ FRAME/PANELS	. 58' x 0. 65'	SCHLEGEL #QDS-650
14	Q' LON SEAL @ PANELS RAILS	. 335' x . 336'	SCHLEGEL #QEZ320
15	RAISED PANEL	27. 8' x 74' x 1. 5' thk	SOLID PINE
16	SEALANT - CLEAR SILICONE		GE STOCK #012A
17	GLAZING CLEAR SILICONE	. 75x. 50x. 051 Thk	GE STOCK #012A

HARDWARE SCHEDULE

<18> HINGES:  
 (4 HINGES/JAMB) JARDINIER MASSARD, FRANCE, #23 SPACED AT 26" OC ATTACHED TO PANEL W/ (8) #10X 1 1/2" WS

INACTIVE STILE:  
 <25> JARDINIER MASSARD, FRANCE, VEROUS A ENTAILLER REF. 321 W/ .312" DIA. X .567 THROW AT TOP/BOTTOM.

ACTIVE STILE:  
 <19> SCHELEGEL MULTI-BOLT LOCK WITH BRASS KEEP SET, 52 MM BA 10' FULL LENGTH STAINLESS. THE STRIKE PLATE WAS 1/4" THICK STEEL.  
 <20> NATIONAL .611" DIA. THROW CONNECTED WITH (6) 1/4-20 SS MS AND NUTS. IVES MODEL 453 WITH (4) 1/4-20 SS MS AND NUTS.

MANUFACTURER:  
**Sabana Windows**  
 6157 NW 167TH STREET  
 UNIT F-25  
 MIAMI LAKES, FLORIDA 33015  
 PH: (305) 825-1256  
 FAX: (305) 825-3805

PRODUCT:  
**Mahogany Impact Swing-Out Door**

Engineering:  
**EngCo Inc.**  
 CA 8116  
 6971 W. Sunrise Blvd. 104  
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SEP 28 2005  
 Engineer Seal  
 Pedro De Figueiredo  
 PE 52609

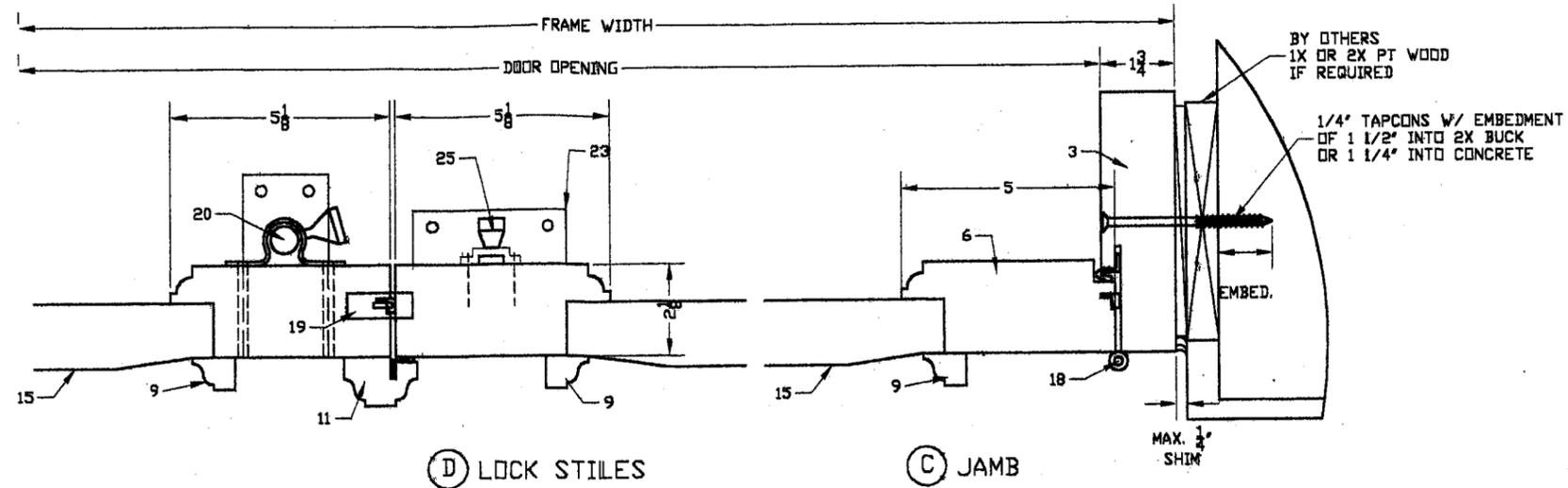
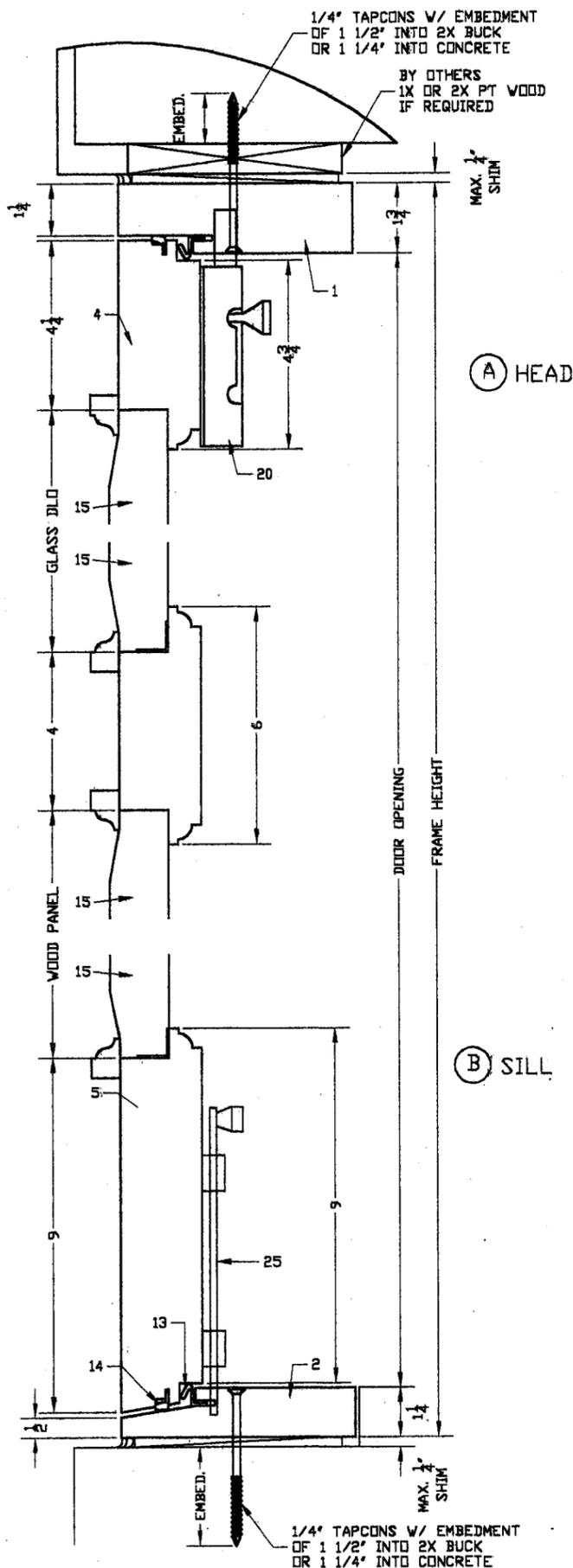
Date: 9/27/05  
 Scale: NA  
 Design by: PPMF

Miami Dade Office:  
 PRODUCT REWEVED  
 as complying with the Florida Building Code  
 Acceptance No 05-0930.02  
 Expiration Date 10/07/07  
 By: *[Signature]*  
 Miami Dade Product Control Division

Drawing Number  
 05-309

Sheet  
 8 of 11

MODEL D - SOLID WOOD PANEL FRENCH SWING-OUT DOOR  
 DESIGNED LOADS = +53 PSF, -70 PSF



**WOOD PANELS DESCRIPTION:**

**TOP:** 27 13/16" X 74" X 1 1/2" THICK SOLID PINE WOOD PANEL PLACED IN A 3/4" X 1 1/4" BEDDING IN RAILS AND STILES AND A 3/4" X 3/4" X 1/2" X .051" THICK CONTINUOUS GE WINDOW & DOOR STOCK # GEO12A CLEAR SILICONE BEAD. A 1/2 X 13/16 WOOD MOULDING CONNECTED WITH (6) #8X1 1/2" WOOD SCREWS PER STILE AND WITH (3) #8X 1 1/2" WOOD SCREWS PER RAIL.

**BOTTOM:** 27 13/16" X 28 15/16" X 1 1/2" THICK SOLID PINE WOOD PANEL PLACED IN A 3/4" X 1 1/4" BEDDING IN RAILS AND STILES AND A 3/4" X 3/4" X 1/2" X .051" THICK CONTINUOUS GE WINDOW & DOOR STOCK # GEO12A CLEAR SILICONE BEAD. A 1/2 X 13/16" WOOD MOULDING CONNECTED WITH (4) #8X1 1/2" WOOD SCREWS PER STILE AND WITH (4) #8X 1 1/2" WOOD SCREWS PER RAIL.

**FRAME & PANEL GENERAL NOTES**

1- FRAME ASSEMBLY NOTES:  
 EACH SOLID MAHOGANY WOOD FRAME HEAD, SILL & JAMBS ARE 6" DEEP AND THE CORNERS ARE BUTT JOINED WITH WOOD GLUE AND FASTENED WITH (4) #14X3" WOOD SCREWS IN EACH CORNER.

2- PANEL ASSEMBLY NOTES:  
 EACH SOLID MAHOGANY WOOD STILE & RAIL IS 2 1/8" DEEP AND THE CORNERS, 1/2" thick x3"x3" TENDON AND WOOD GLUE JOINT.

3- INSTALLATION SEALANT NOTES:  
 THE FRAME AND ALL EXPOSED INSTALLATION FASTENERS MUST BE PROPERLY SEALED WITH 'GE' STOCK GEO12A SILICONE.

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MANUFACTURER:  
**Sabana Windows**  
 6157 NW 167TH STREET  
 UNIT F-25  
 MIAMI LAKES, FLORIDA 33015  
 PH: (305) 825-1256  
 FAX: (305) 825-3805

PRODUCT:  
**Mahogany Impact Swing-Out Door**

Engineering:  
**EngCo Inc.**  
 CA 8116  
 6971 W. Sunrise Blvd. 104  
 Plantation, Fl. 33313  
 Tel.: (954) 585-0304  
 Fax: (954) 585-0305

*[Signature]*  
**SEP 28 2005**  
 Engineer Seal  
 Pedro De Figueredo  
 PE 52609

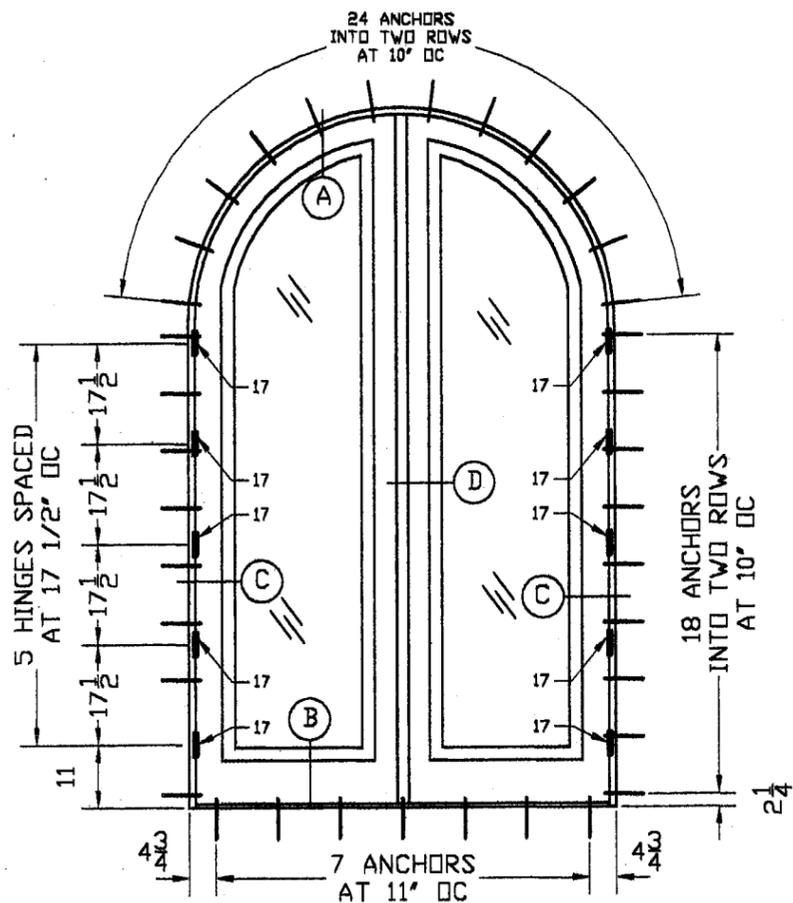
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 Design by: PPMF

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**PRODUCT REVISED**  
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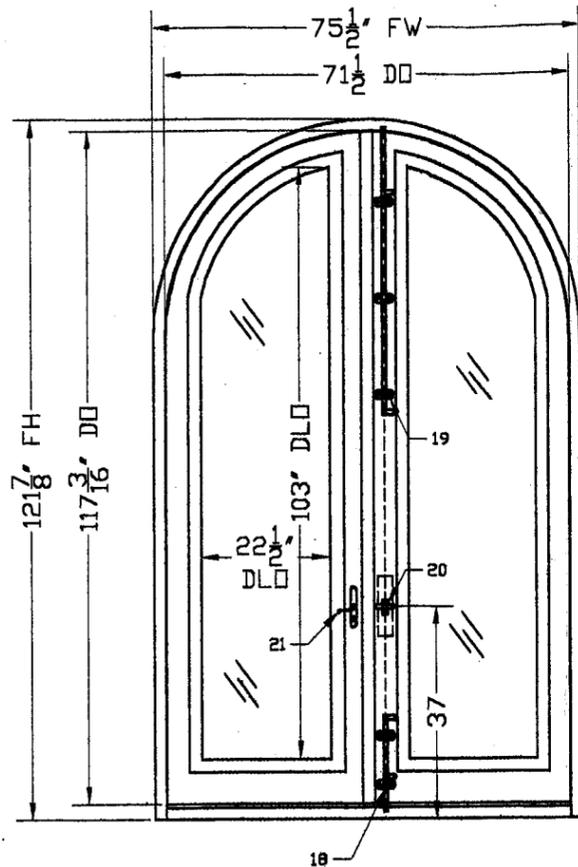
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OUTSIDE ELEVATION



INSIDE ELEVATION



MODEL E - FULL ARCHED FRENCH SWING-OUT DOOR  
DESIGNED LOADS = +75 PSF, -83 PSF

MAX. FRAME SIZE = 74 1/2" X 121 7/8" X 6" DEEP FRAME  
MAX. PANEL SIZE = 37 1/2" X 119 3/4" X 2 1/2" DEEP  
MAX. GLASS SIZE = 24 1/2" X 105" X .57" THICK  
MAX. GLASS DLO = 22 1/2" X 103"  
WATER TEST PRESSURE: ±11.25 PSF (75 DP)

INSTALLATION NOTES:

- ANCHOR: 1/4" TAPCON BY ELCO  
SUBSTRATUM EMBEDMENT  
WOOD (SG) = .55 1 1/2"  
CONCRETE (3320 psi) 1 1/4"  
MASONRY BLOCK 1 1/4"
- QUANTITY & SPACING AS PER ELEVATION
- 1X OR 2X WOOD BUCK TO BE DESIGNED BY OTHERS FOR IMPOSED LOADS.

SEE SHEET 11 OF 11 FOR DETAILS

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BILL OF MATERIALS

ITEM#	DESCRIPTION	SIZE	REMARKS
1	FRAME (ARCH HEADER)	2.00' x 6.00'	LAMINATED MAHOGANY
2	FRAME (JAMB)	2.00' x 6.00'	LAMINATED MAHOGANY
3	FRAME (SILL)	2.00' x 6.00'	LAMINATED MAHOGANY
4	FRAME (SILL BUMPER)	0.69' x 1.75'	LAMINATED MAHOGANY
5	SASH (ARCH RAIL)	2.60' x 6.62'	LAMINATED MAHOGANY
6	SASH (BOTTOM RAIL)	2.60' x 9.21'	LAMINATED MAHOGANY
7	SASH (HINGE RAIL)	2.60' x 6.50'	LAMINATED MAHOGANY
8	SASH (LOCK RAIL)	2.60' x 6.44'	LAMINATED MAHOGANY
9	SASH (INACTIVE RAIL)	2.60' x 6.44'	LAMINATED MAHOGANY
10	SASH (EXT. GLASS STOP)	2.25' x 1.69'	LAMINATED MAHOGANY
10A	SASH (INT. GLASS STOP)	2.25' x 1.69'	LAMINATED MAHOGANY
11	SASH (INT. ASTRAGAL)	2.25' x 2.06'	LAMINATED MAHOGANY
12	BOTTOM & HINGE REINF.	1.00' x 0.25'	STEEL
13	ASTRAGAL REINF.	0.63' x 0.63'	STEEL
14	LOCK RAIL REINF.	0.25' CHANNEL	STEEL
15	WEATHER STRIPPING	QEBD6650-B97	VINYL
16	WEATHER STRIPPING	QEZ-320-BRZ	VINYL

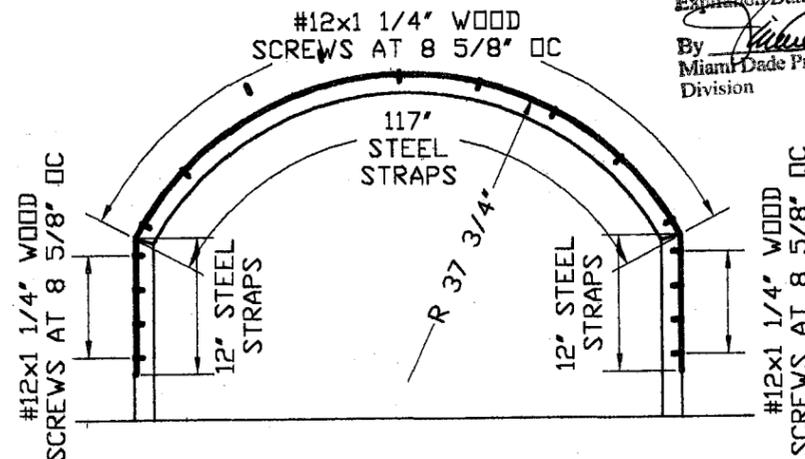
HARDWARE SCHEDULE

- <17> HINGES:  
(5 HINGES/JAMB) MADE BY SABANA WINDOWS INSTALLED AT 17 1/2" OC  
INACTIVE STILE:  
<19> & <18> SURFACE BOLTS MADE BY SABANA WINDOWS CONSISTED OF 50" (TOP) AND 16 3/4" (BOTTOM) LONG x .75" DIAMETER STEEL ROD WITH TWO 1" DIAMETER RINGS WELDED 3 1/2" AND 19 3/4" FROM END OF THE ROD. THE ROD WAS SUPPORTED BY THREE 2 X 3 1/8" X 1/4" THICK STEEL GUIDE PLATES WITH 1 3/8" RINGS WELDED AT TOP EACH PLATE TO GUIDE THE LOCKING ROD. THE ROD PENETRATED 1" THROUGH THE FRAME MOLDING. THE TOP MOST PLATE WAS CENTERED 1 3/4" FROM EDGE OF DOOR  
<20> TWO POINT LOCK WITH 3/4" DIAMETER STEEL RODS EXTENDING 1" THROUGH FIX PANEL LOCK STILE AND INTO FRAME GOING THROUGH FRAME AND SASH LOCK REINFORCEMENT PLATES. THE LOCK WAS OPERATED BY A HANDLE AT AT 37" FROM BOTTOM OF DOOR.  
ACTIVE STILE:  
<21> MUL-T-LOCK MODEL SERIES 700 LOCK, SINGLE LATCH ONLY.

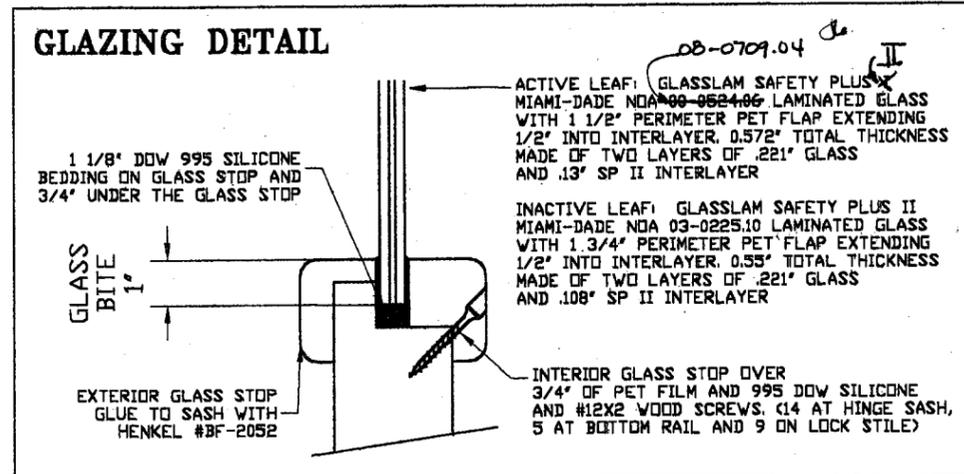
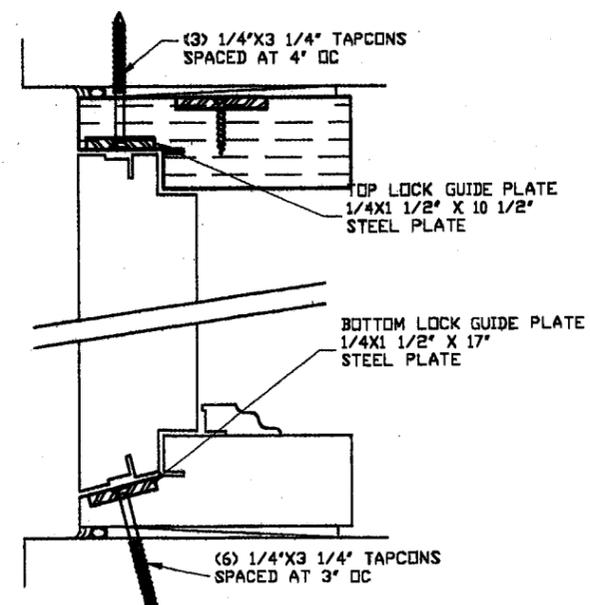
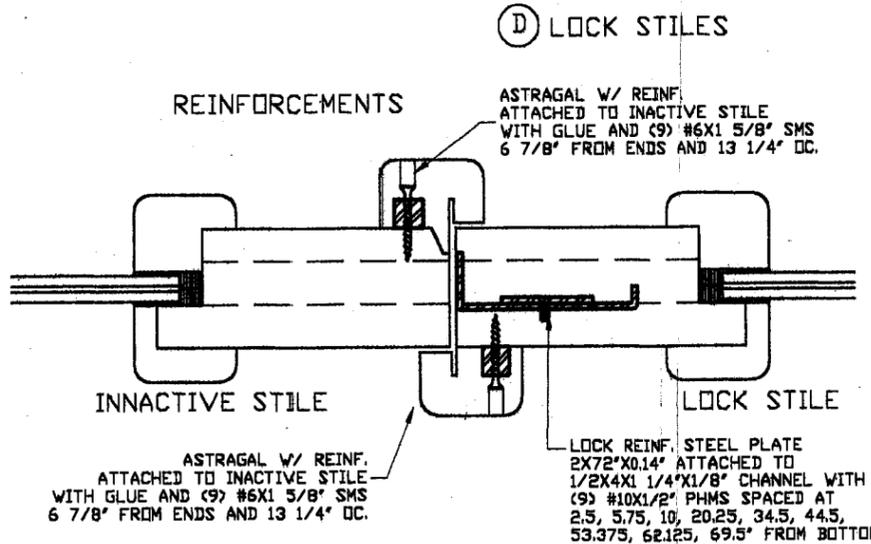
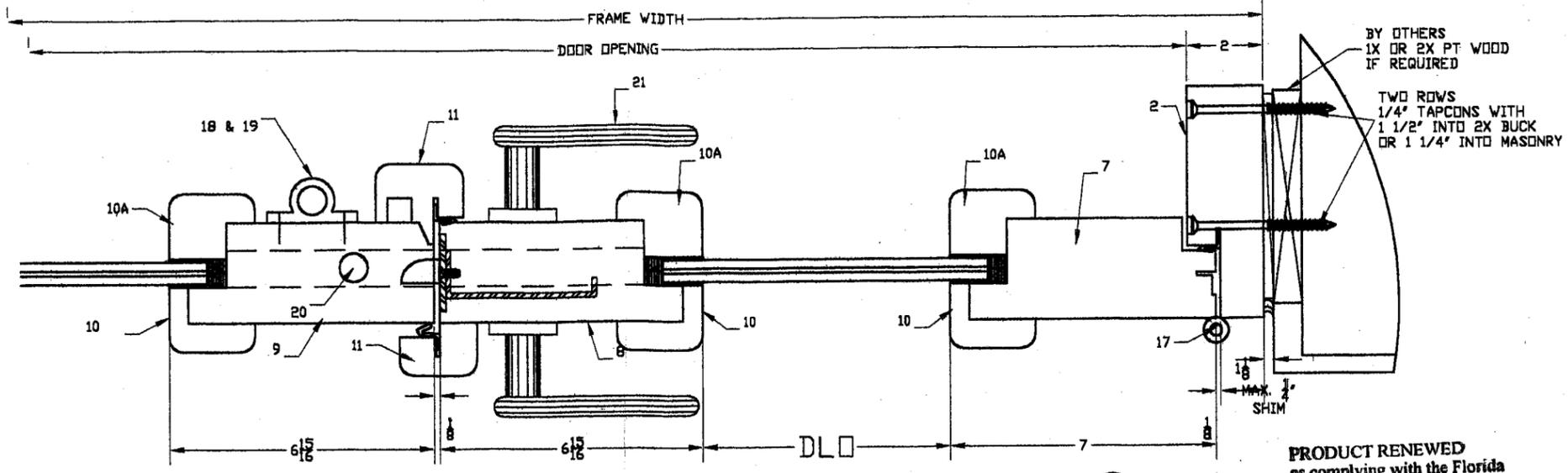
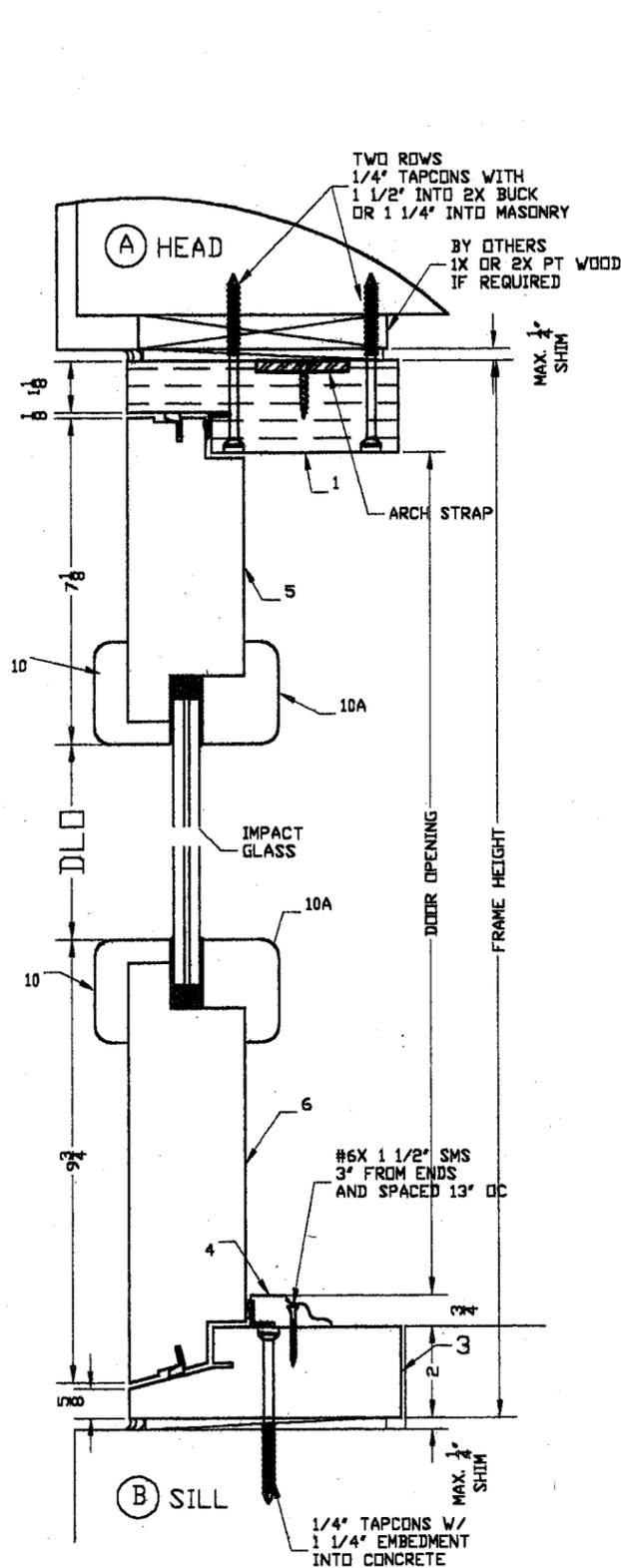
ARCH STRAP CONSTRUCTION:

THE CURVE HEAD AND THE JAMBS WERE BUTT JOINED USING 1/4X3X1/2" TENDON AND GLUE. THE STEEL STRAP MADE OF 1/4X2X141" WAS ATTACHED TO WOOD FRAMING WITH (17) #12X1 1/4" WOOD SCREWS.

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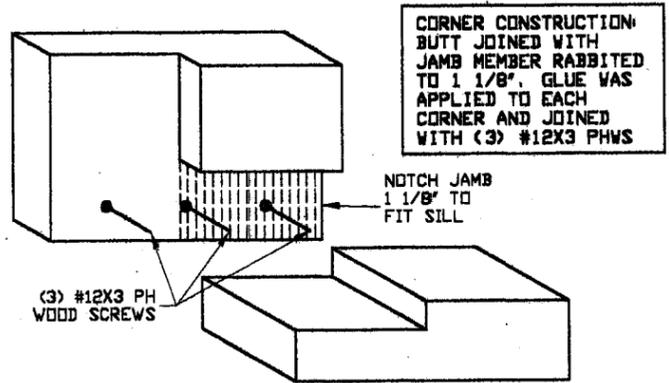


MODEL E - FULL ARCHED FRENCH SWING-OUT DOOR  
 DESIGNED LOADS = +75 PSF, -83 PSF



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