



MIAMI-DADE
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) 375-2908

NOTICE OF ACCEPTANCE (NOA)

Traco Windows & Doors
71 Progress Avenue
Cranberry Township, PA 16066

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 "Doral 3" Outswing Aluminum Patio Door (L.M.I.)

APPROVAL DOCUMENT: Drawing No. **04-113-001A**, dated 1/21/04, titled "Series "Doral 3" Outswing Aluminum Patio Door -L.M.I.", sheets 1 through 6 of 6, prepared by Traco Windows & Doors Inc., signed and sealed by Frank L.Bennardo, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large Missile Impact

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.

RENEWAL 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 consists of this page 1 and evidence page E-1 and E-2, as well as approval document mentioned above. The submitted documentation was reviewed by **Theodore Berman, P.E.**

TJB
3/21/2004


NOA No 04-0122.17
Expiration Date: April 22, 2009
Approval Date: April 22, 2004
Page 1

Traco Windows & Doors Inc.

NOTICE OF ACCEPTANCE: EVIDENCE PAGE

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **04-113-001A**, 1/21/04, titled "Series Doral 3 Outswing Aluminum Patio Door -L.M.I.", sheets 1 through 6 of 6, prepared by Traco Windows & Doors Inc., signed and sealed by Frank L.Bennardo, P.E.

B. TESTS

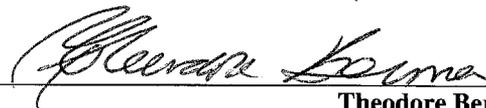
1. Test reports on
 - 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94Along with installation diagram of an outswinging aluminum patio door, prepared by Hurricane Test Laboratory, Inc., Test Report No.**0021-1007-03** with specimen number 2, 4, 6, dated 10/29-11/25/03, signed and sealed by Vinu J. Abraham, P.E.
2. Test reports on
 - 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
 - 2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 3) Small Missile Impact Test per FBC, TAS 201-94Along with installation diagram of an outswinging aluminum patio door, prepared by Hurricane Test Laboratory, Inc., Test Report No.**0021-1007-03** with specimen number 5, dated 11/18-19/03, signed and sealed by Vinu J. Abraham, P.E.
3. Test reports on
 - 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
 - 2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 3) Large Missile Impact Test per FBC, TAS 201-94Along with installation diagram of an outswinging aluminum patio door, prepared by Hurricane Test Laboratory, Inc., Test Report No.**0021-1007-03** with specimen number 1, dated 10/14-16/03, signed and sealed by Vinu J. Abraham, P.E.

C. CALCULATIONS

1. Anchor Calculations, ASTM-E 1300, and structural analysis, prepared signed and sealed by Frank L. Bennardo, P.E., dated 1/16/04.

D. QUALITY ASSURANCE

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



Theodore Berman, P.E.

Deputy Director, Product Control Division

NOA No 04-0122.17

Expiration Date: April 22, 2009

Approval Date: April 22, 2004

Traco Windows & Doors Inc.

NOTICE OF ACCEPTANCE: EVIDENCE PAGE

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **01-0205.02** issued to "Solutia Inc." for "SaflexIIG PVB Interlayer for Laminated Glass" dated 05/17/01, expiring on 05/21/06.

F. STATEMENTS

1. Statement letter of code compliance, dated January 16, 2004, signed and sealed by Frank L. Bennardo, P.E.
2. Statement letter of no financial interest, dated January 16, 2004, signed and sealed by Frank L. Bennardo, P.E.

G. STATEMENTS

1. Letter from consultant stating that the product is in compliance with the Florida Building Code (FBC).



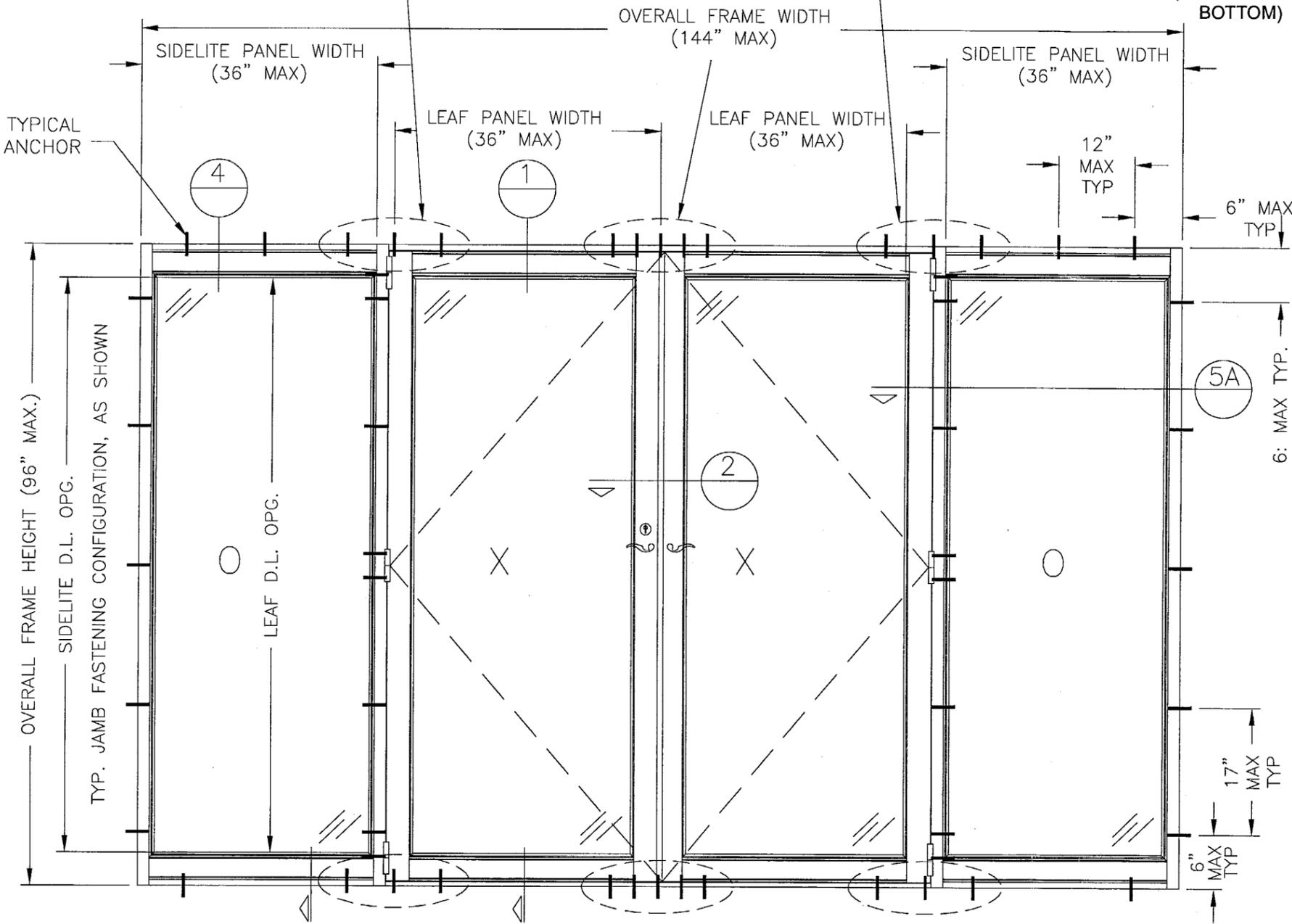
Theodore Berman, P.E.
Deputy Director, Product Control Division

NOA No 04-0122.17
Expiration Date: April 22, 2009
Approval Date: April 22, 2004

LARGE MISSILE IMPACT RESISTANT OUTSWING DOOR WITH SIDELITES

CLUSTER OF (3) ANCHORS (REF ANCHOR NOTES, SHEET 3), AS SHOWN, EXCEPT FOR #12 SCREW OR 3/16" TAPCON INTO WOOD OR WOOD BUCK WHERE (4) ANCHORS ARE REQ'D., 3" MIN. SPACING BETWEEN CLUSTER ANCHORS (TYP. TOP & BOTTOM)

CLUSTER OF (5) ANCHORS (REF ANCHOR NOTES, SHEET 3), 3" MIN. SPACING BETWEEN CLUSTER ANCHORS (TYP. TOP & BOTTOM)



GENERAL NOTES:

1. THE SWING DOOR SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN COMPLIANCE WITH THE FLORIDA BUILDING CODE 2001 (HIGH VELOCITY HURRICANE ZONE) AND MIAMI-DADE COUNTY PROTOCOLS TAS 201, 202 & 203.
2. A 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS DOOR SYSTEM.
3. POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS DOOR SYSTEM SHALL BE DETERMINED BY OTHERS ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE.
4. THE DOOR SYSTEM DETAILED HEREIN HAS BEEN TESTED PER MIAMI-DADE COUNTY PROTOCOLS TAS-201, TAS-202, & TAS-203 AS REFERENCED IN TEST REPORT #0021-1007-03 BY HURRICANE TEST LABORATORY (HTL).
5. THE DOOR SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL APPLY FOR ONE-TIME APPROVAL AND PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
6. PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS. WOOD BUCKS (NOT BY TRACO) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
7. DOORS PANELS GLAZED WITH 7/16" LAMINATED GLASS ARE LARGE MISSILE IMPACT APPROVED. NO PROTECTION REQUIRED FOR ALL INSTALLATIONS.
8. ALL STEEL IN CONTACT WITH ALUMINUM SHALL BE PAINTED OR PLATED.

Approved as complying with the Florida Building Code
 Date: 04/22/04
 NOA# 04-0122-13
 Miami Dade Product Control
 Division
 By: *[Signature]*

A EXTERIOR ELEVATION: SNAP-MULLION SIDELITES
 AS SHOWN, OR OXX, XXO, OXO, XO, OX, or XX CONFIG
 USE TYP. JAMB FASTENING CONFIGURATION FOR ALL CASES, AS SHOWN
 (N.T.S.)

DESIGN PRESSURES:
 +55 PSF / -60 PSF

MAR 25 2004
 FRANK L. BERNARDO, P.E.
 REG. 044543

FRANK L. BERNARDO, P.E.
 CONSULTING ENGINEER
 4441 NORTH DIXIE HIGHWAY
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TRACO
 Windows & Doors Inc.
 SERIES DORAL 3 OUTSWING ALUMINUM
 PATIO DOOR (LARGE MISSILE)



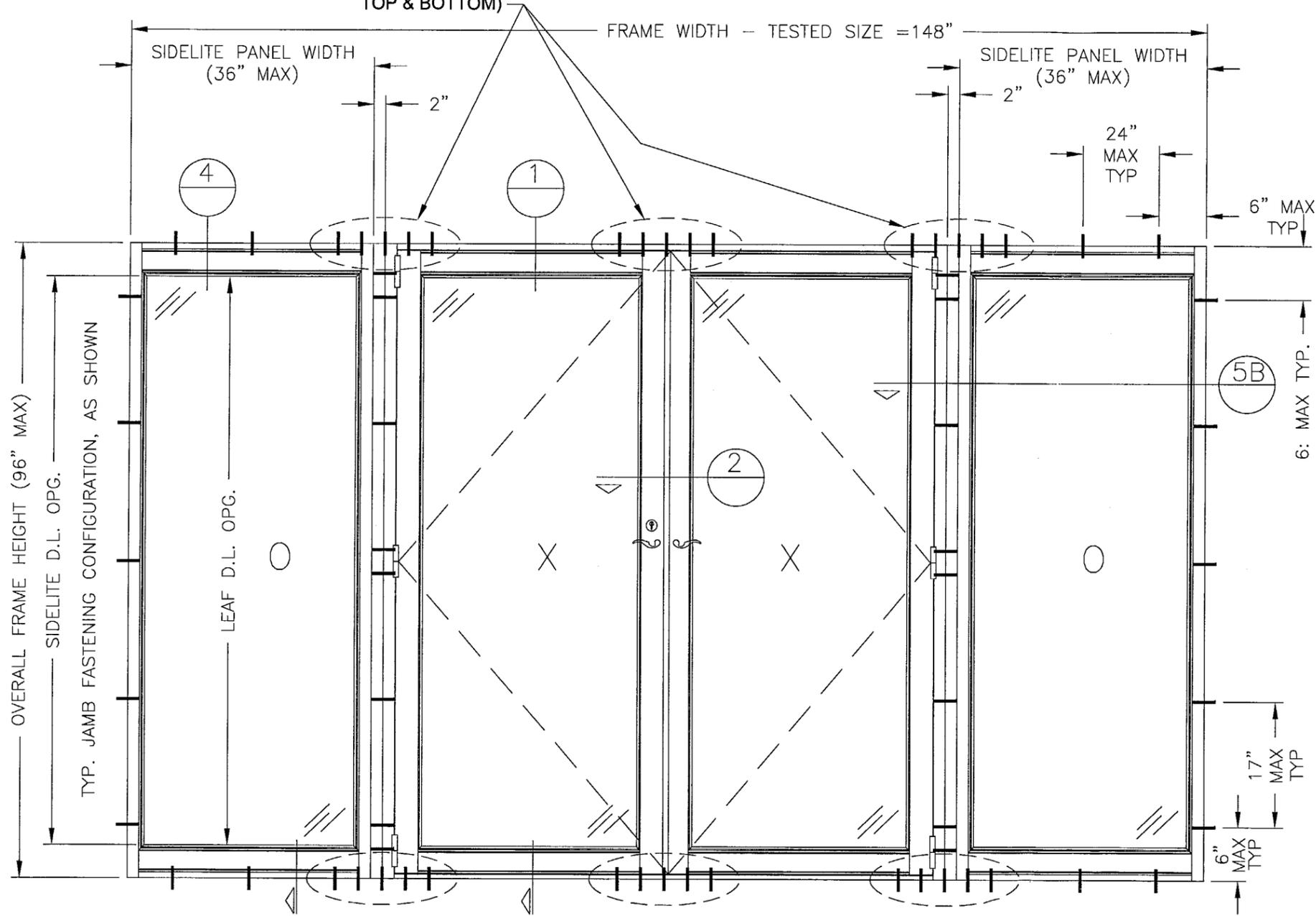
REVISIONS	
DESCRIPTION	DATE

SCALE: 1/1 (UNO)
 DRAWN BY: MEF/CL
 CHECKED BY: FLB
 ORIG DATE: 1/21/2004
 DWG #: 04-113-001B

SHEET:
 1 OF 6

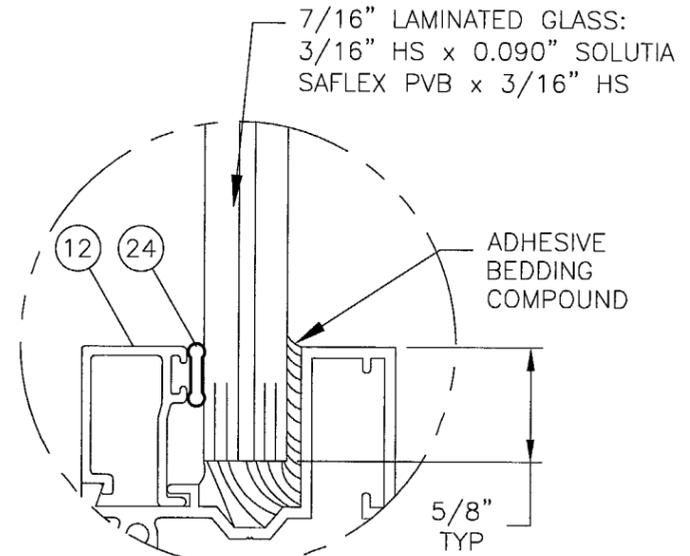
LARGE MISSILE IMPACT RESISTANT OUTSWING DOOR WITH SIDELITES

CLUSTER OF (5) ANCHORS (REF ANCHOR NOTES, SHEET 3), 3" MIN. SPACING BETWEEN CLUSTER ANCHORS (TYP. TOP & BOTTOM)



B EXTERIOR ELEVATION: TUBE-MULLION SIDELITES

AS SHOWN, OR OXX, XXO, OXO, XO, OX, XX, O, or X CONFIG
USE TYP. JAMB FASTENING CONFIGURATION FOR ALL CASES, AS SHOWN
(N.T.S.)



C GLAZING DETAIL (LEAF OR SIDELITE)
FULL SCALE

Approved as complying with the
Florida Building Code
Date 04/22/04
NOAH 04-0122-17
Miami Code Product Control
Division
By *Michael Kew*

DESIGN PRESSURES:
+90 PSF / -90 PSF

MAR 25 2004

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TRACO
Windows & Doors Inc.
SERIES DORAL 3 OUTSWING ALUMINUM
PATIO DOOR (LARGE MISSILE)



REVISIONS	
DESCRIPTION	DATE

SCALE: 1/1 (UNO)
DRAWN BY: MEH/CL
CHECKED BY: FLB
ORIG DATE: 1/21/2004
DWG #: 04-113-0015

SHEET:
2 OF 6

EXISTING STRUCTURE
(OPTIONAL 1X OR 2X WOOD
BUCK NOT SHOWN)

SEE ANCHOR NOTES FOR ANCHOR
TYPES AND EMBEDMENT. SEE
ELEVATION FOR LOCATIONS &
SPACING.

NOTE:
EXTERIOR AND INTERIOR FINISHES,
BREAK METALS AND FLASHING
BY OTHERS.

MAR 25 2004

FRANK L. BERNARDO, P.E.
#22046248

FRANK L. BERNARDO, P.E.
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Windows & Doors Inc.

SERIES DORAL 3 OUTSWING ALUMINUM
PATIO DOOR (LARGE MISSILE)

REVISIONS
DESCRIPTION DATE

DESCRIPTION	DATE

SCALE: 1:1 (UNO)
DRAWN BY: MEH/CL
CHECKED BY: JTB
ORIG. DATE: 12/18/04
DWG #: 04-13-001B

SHEET:
3 OF 6

SEE ANCHOR NOTES FOR
ANCHOR TYPES AND
EMBEDMENT. SEE ELEVATION
FOR LOCATIONS & SPACING.

NO SILL RISER
REQ'D WHEN SNAP
MULLION IS USED.

FIELD
APPLIED
SEAL

EXISTING
STRUCTURE

2 ASTRAGAL DETAIL
HALF SCALE

3 JAMB DETAIL
HALF SCALE

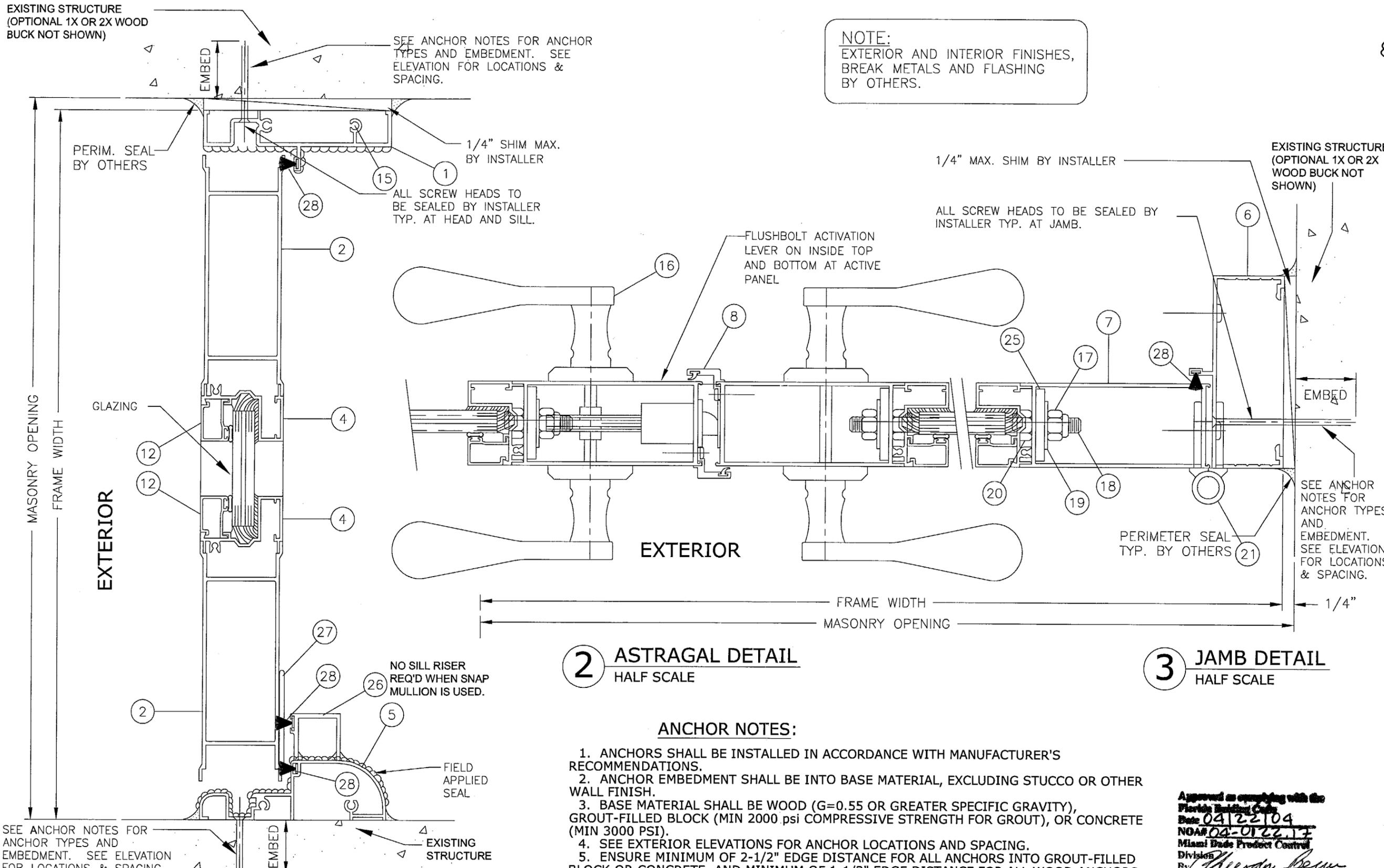
ANCHOR NOTES:

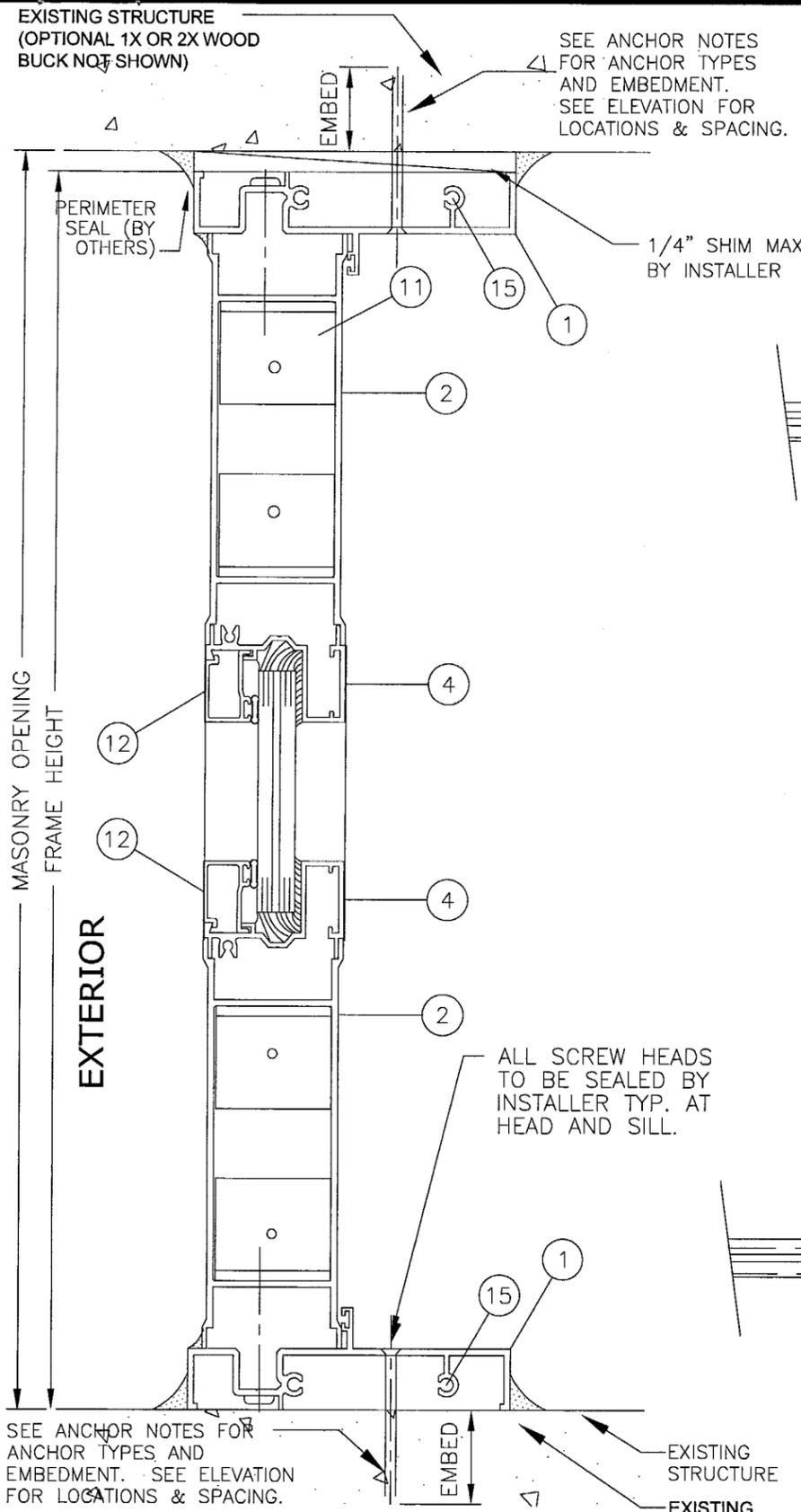
1. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2. ANCHOR EMBEDMENT SHALL BE INTO BASE MATERIAL, EXCLUDING STUCCO OR OTHER WALL FINISH.
3. BASE MATERIAL SHALL BE WOOD (G=0.55 OR GREATER SPECIFIC GRAVITY), GROUT-FILLED BLOCK (MIN 2000 psi COMPRESSIVE STRENGTH FOR GROUT), OR CONCRETE (MIN 3000 PSI).
4. SEE EXTERIOR ELEVATIONS FOR ANCHOR LOCATIONS AND SPACING.
5. ENSURE MINIMUM OF 2-1/2" EDGE DISTANCE FOR ALL ANCHORS INTO GROUT-FILLED BLOCK OR CONCRETE, AND MINIMUM OF 1-1/2" EDGE DISTANCE FOR ALL WOOD ANCHORS.
6. ANCHOR OPTIONS FOR INSTALLATION ARE AS FOLLOWS:

TO 2x WOOD BUCK OR WOOD STRUCTURE
#12 SMS, 3/16" OR 1/4" TAPCONS (ITW OR
ELCO) WITH 1-1/2" MINIMUM EMBEDMENT.

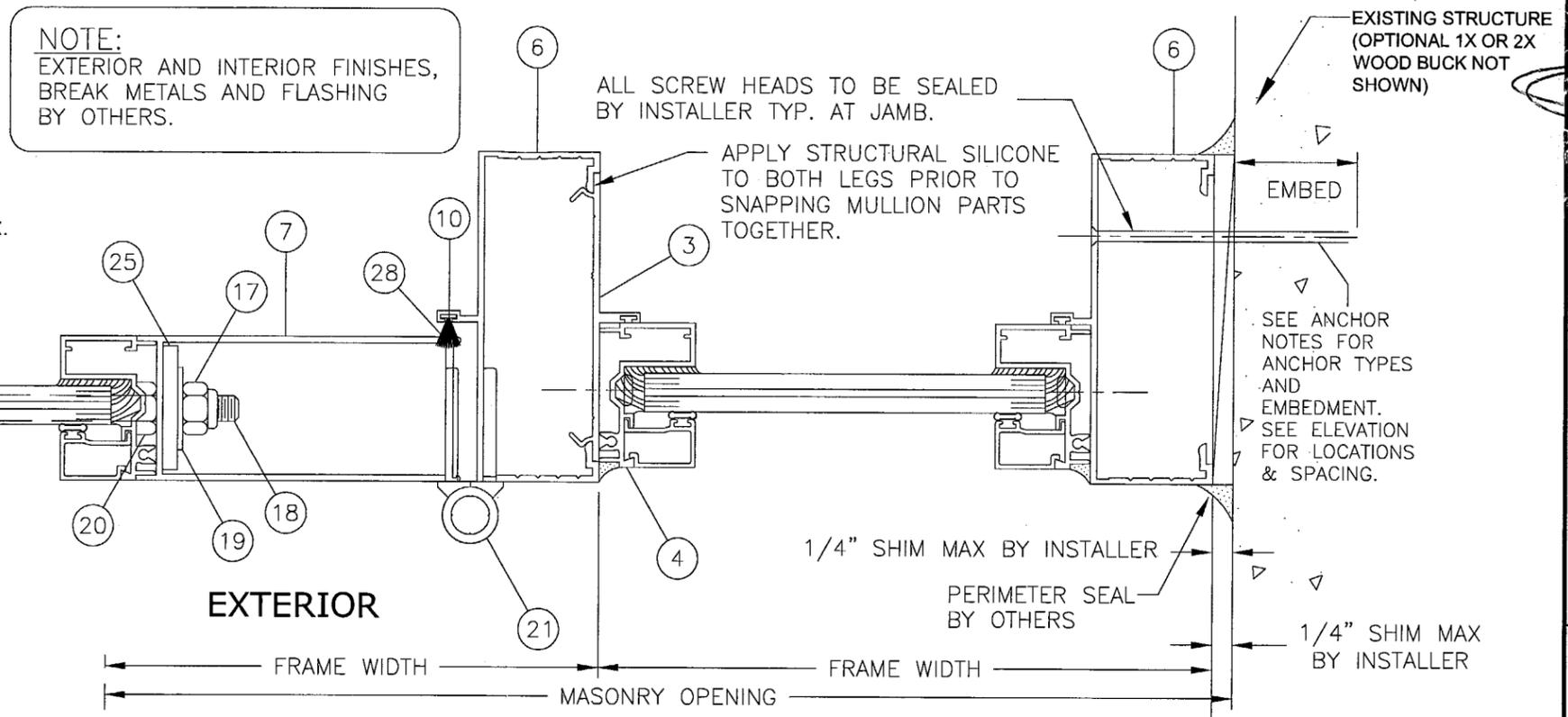
TO CONC OR GROUT-FILLED BLOCK
(DIRECTLY OR THRU 1x OR 2x WOOD BUCK)
3/16" OR 1/4" TAPCONS (ITW OR ELCO)
WITH 1-1/4" MINIMUM EMBEDMENT TO
CONC OR GROUT-FILLED BLOCK.

1 SECTION OF RESIDENTIAL DOOR
HALF SCALE

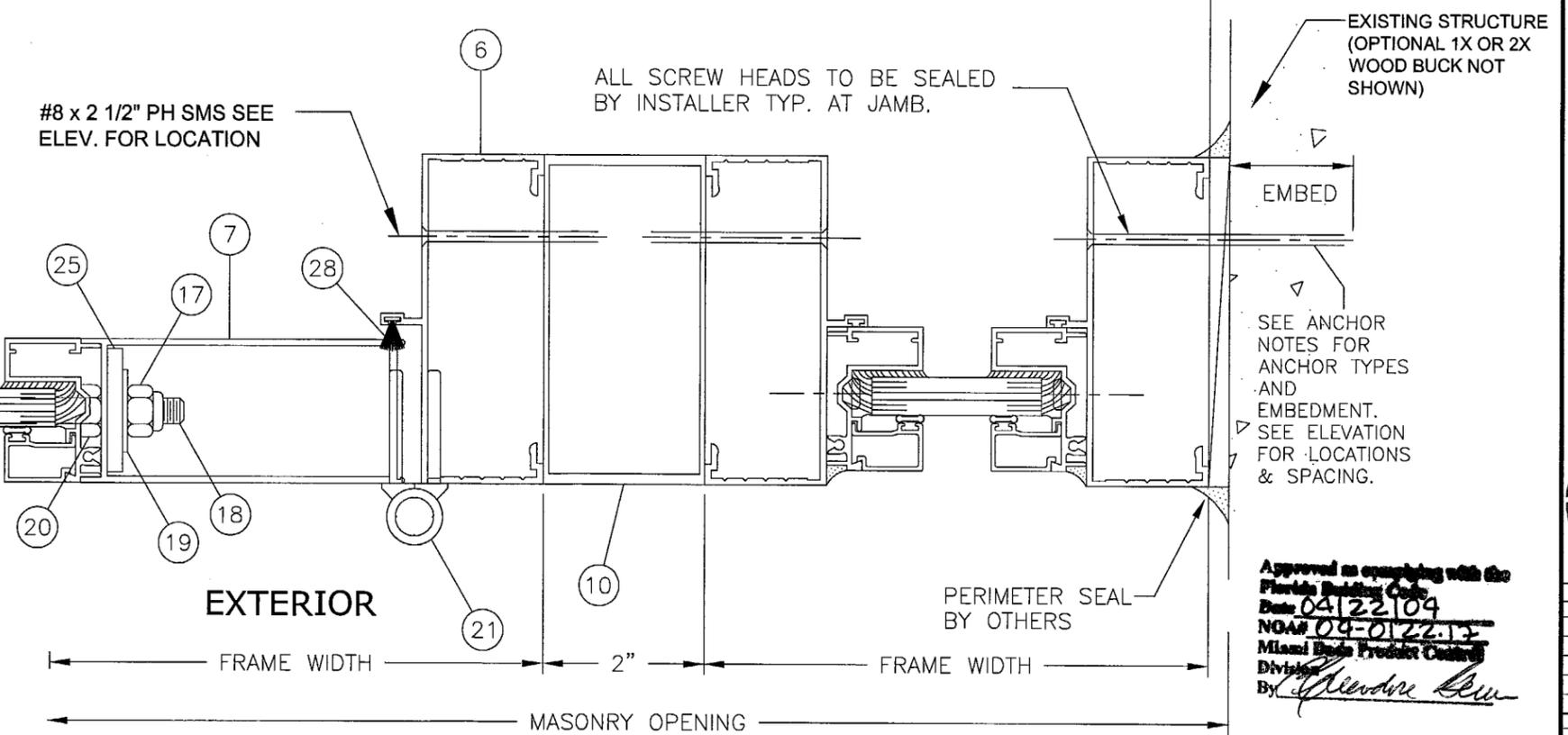




4 SECTION OF SIDELITE
HALF SCALE



5a SECTION OF SNAP-MULLION SIDELITE
HALF SCALE



5b SECTION OF TUBE-MULLION SIDELITE
HALF SCALE

NOTE:
EXTERIOR AND INTERIOR FINISHES,
BREAK METALS AND FLASHING
BY OTHERS.

MAR 25 2004
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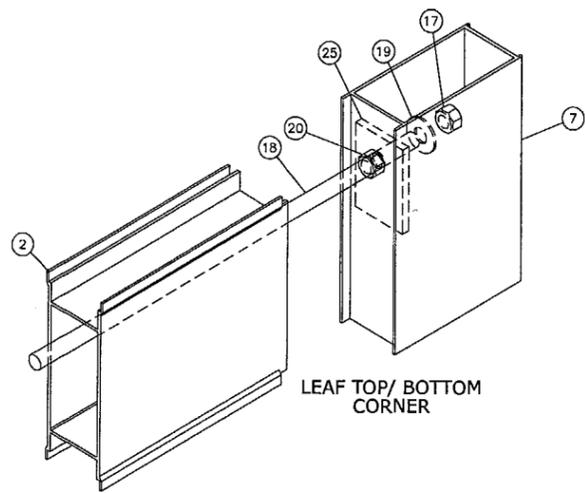
TRACO
Windows & Doors Inc.
SERIES DORAL 3 OUTSWING ALUMINUM
PATIO DOOR (LARGE MISSILE)

Approved as complying with the Florida Building Code
Date: 04/22/04
NOA# 04-012213
Miami Code Product Control
By: *Glennore Sew*

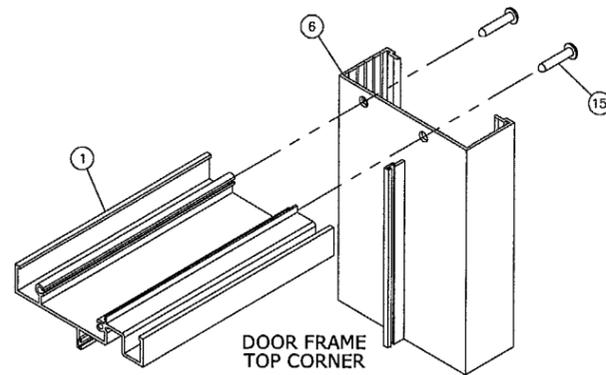
REVISIONS	
DESCRIPTION	DATE

SCALE: 1/4" = 1'-0"
DRAWN BY: JH/CL
CHECKED BY: JH/CL
ORIG DATE: 12/17/04
DWG #: 04-113-0015

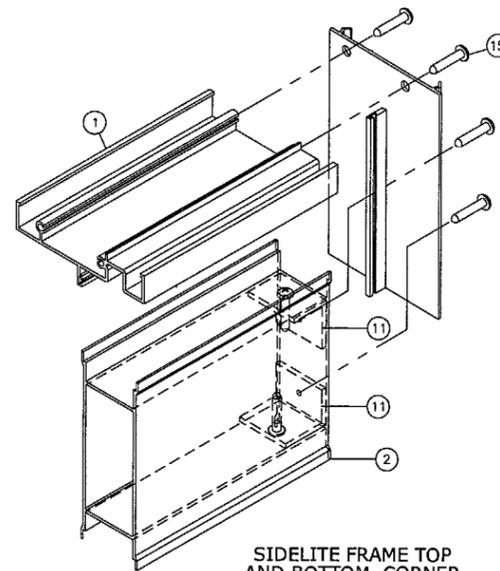
SHEET:
4 OF 6



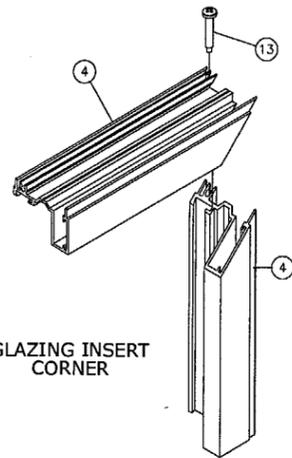
LEAF TOP/ BOTTOM CORNER



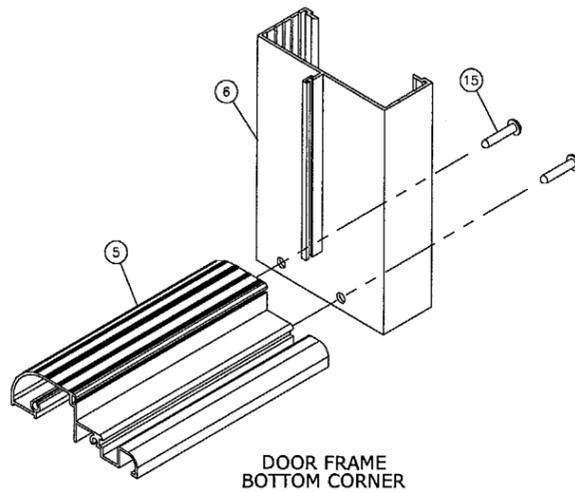
DOOR FRAME TOP CORNER



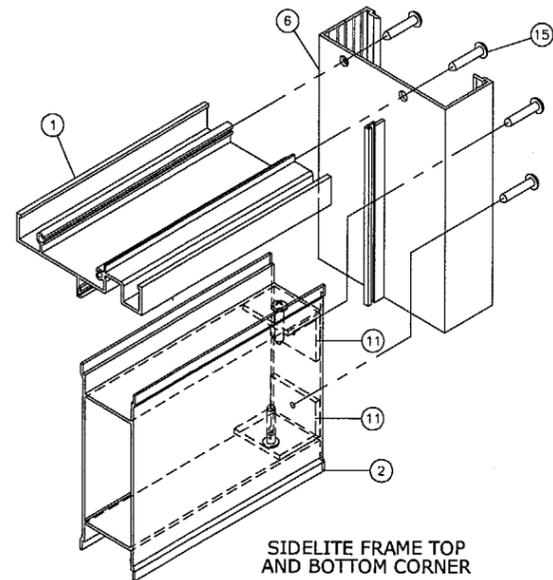
SIDELITE FRAME TOP AND BOTTOM CORNER AT MULLION



GLAZING INSERT CORNER



DOOR FRAME BOTTOM CORNER



SIDELITE FRAME TOP AND BOTTOM CORNER

SEALANTS:

ALL FRAME AND LEAF CORNERS, INSTALLATION SCREWS AT SILL AND JAMBS AND BOTTOM GLAZING BEAD SHALL BE SEALED WITH SCHEE MOREHEAD 5504 SEALANT.

HINGES:

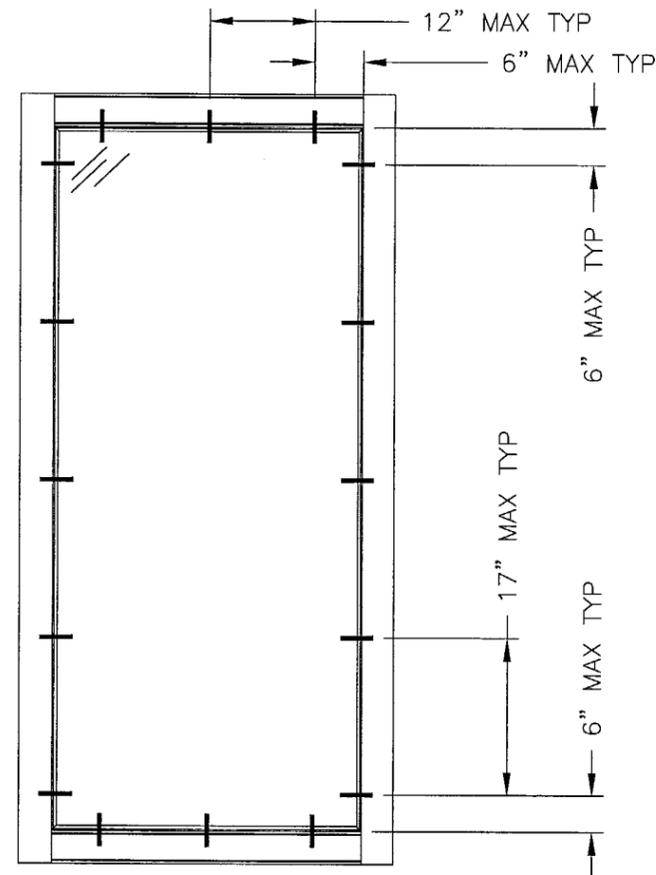
4" LONG ALUM. BUTT HINGES WITH .312 DIA X 2-1/2" ALUM PIN, BRASS SPACER AND NYLON CAPS AT 3 1/2" FROM TOP & BOTTOM AND AT MIDSPAN

LOCKS:

STANDARD STEEL THROW BOLT LOCK, KEY OPERATED ON EXTERIOR AND THUMB TURN ON INTERIOR 39 1/2" FROM BOTTOM AT ACTIVE LEAF LOCK STILE

CONVENTIONAL LOCKSET WITH LEVER TYPE OPERATOR HANDLE AT ACTIVE LEAF LOCK STILE NEAR MIDSPAN

STANDARD FLUSH BOLTS, MANUALLY OPERATED AT TOP AND BOTTOM OF EACH ACTIVE AND INACTIVE LEAF



GLAZING INSERT FASTENER SPACING

Approved as complying with the Florida Building Code
 Date 04/22/04
 NOA# 04-0122-13
 Miami Dade Product Control
 By *[Signature]*



MAR 25 2004

FRANK L. BERNARDO, P.E.
 REG. 046549

FRANK L. BERNARDO, P.E.
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TRACO
 Windows & Doors Inc.



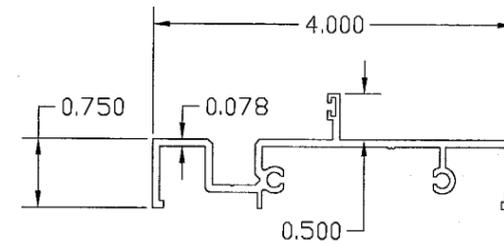
SERIES DORAL 3 OUTSWING ALUMINUM PATIO DOOR (LARGE MISSILE)

REVISIONS	
DESCRIPTION	DATE

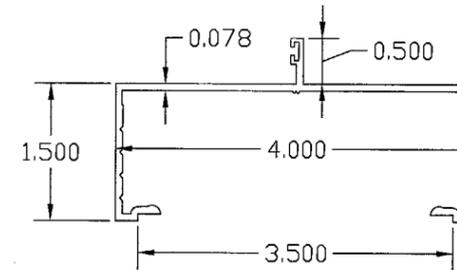
SCALE: 1:1 (UNO)
 DESIGNED BY: FHE/CL
 CHECKED BY: FHE/CL
 ORIG. DATE: 12/22/04
 DWG. # 04-13-001B

SHEET:
 5 OF 6

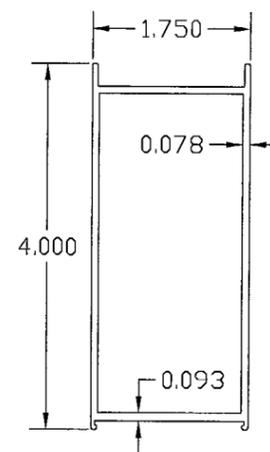
MATERIAL LIST					
ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	050-338	1/DOOR 2/SIDELITE	ATRIUM FRAME HEAD ATRIUM FRAME HEAD OR SILL	6063-T6	TIFTON OR EQUIV.
2	050-389	2/ LEAF	DOOR LEAF TOP & BOTTOM RAIL	6063-T5	ALUMAX OR EQUIV.
3	050-002	1/ SIDELITE	SNAP CANTILEVER	6063-T5	-
4	050-763	4/ GLASS LITE	GLAZING SUB FRAME	6063-T6	TIFTON OR EQUIV.
5	050-138	1 @ DOOR	THRESHOLD	6063-T5	ALUMAX OR EQUIV.
6	050-292	2/ DOOR 1/ SIDELITE	ATRIUM FRAME JAMB	6063-T5	TIFTON OR EQUIV.
7	051-394	2/ LEAF	RESIDENTIAL DOOR PANEL VERTICAL STILE	6063-T5	TIFTON OR EQUIV.
8	050-455	1/ LEAF	GAP CLOSURE	6063-T5	TIFTON OR EQUIV.
9	-	-	-	-	-
10	H-1006	AS REQD.	2" X 4" TUBE MULLION	6063-T5	TRECO OR EQUIV.
11	050-124	AS REQD.	1" x 1 1/4" X 1/8" ANGLE	ALUMINUM	-
12	050-764	AS REQD.	GLAZING BEAD	6063-T6	TIFTON OR EQUIV.
13	012-00-401	AS REQD.	#10 X 1/2" FLAT HEAD SCREW	-	-
14	AS REQD.	-	1/8" SHIM	PLASTIC	-
15	-	8/ FRAME	#10 X 1" DOOR FRAME ASSEMBLY SCREW	-	-
16	007-14-039A	AS REQD.	DOOR HANDLE	-	MARBOLLO
17	-	4/ LEAF	1/2" SELF LOCK NUT	STEEL	-
18	-	2/ LEAF	1/2" ROD (2 X PANELS)	STEEL	-
19	-	4/ LEAF	1/2" FLAT WASHER	STEEL	-
20	-	4/ LEAF	1/2" REGULAR NUT	-	-
21	051-181	3/ LEAF	HINGES	-	-
22	007-10-051	2/ LEAF	STANDARD FLUSH BOLT	-	-
23	-	4	#8 x 1/2" SMS	-	-
24	20-4164	AS REQD.	BULB VINYL	VINYL	-
25	-	4/ LEAF	BLOCK ROD GUIDE	-	-
26	050-10-765	1	SILL RISER	ALUMINUM	SILL RISER
27	-	1/ LEAF	1 X .050 ALUM BAR (BETWEEN VERTICALS)	ALUMINUM	-
28	047-10-014	AS REQD.	FIN SEAL WEATHER-STRIPPING	-	-



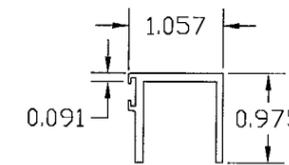
ATRIUM FRAME HEAD/SILL



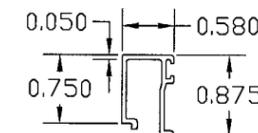
DOOR FRAME JAMB



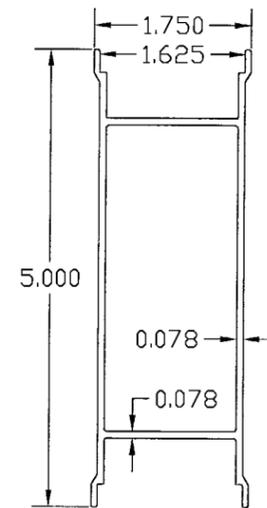
DOOR STILE



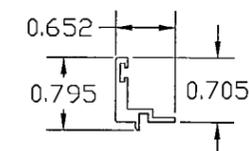
SILL RISER



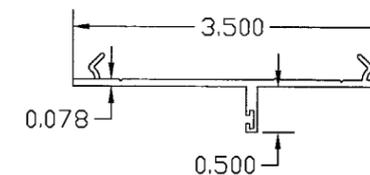
GLAZING BEAD



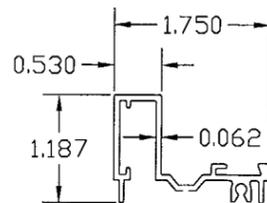
DOOR TOP/
BOTTOM RAIL



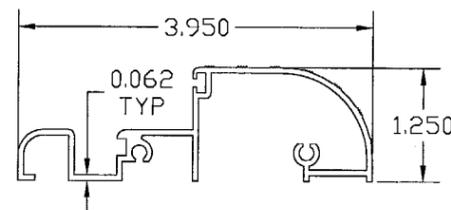
GAP CLOSURE



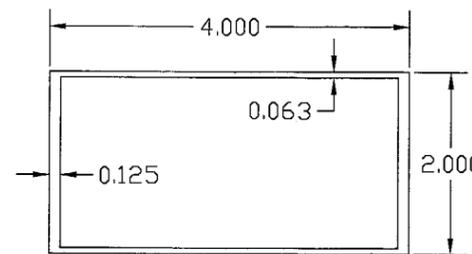
DOOR STOP



GLAZING
SUBFRAME



THRESHOLD



H-1006 TUBE MULLION

Approved as complying with the
Florida Building Code
Date: 04/22/04
NOAH 04-0122-12
Miami Dade Product Control
Division
By: *Meriam Bern...*

REVISIONS
DESCRIPTION DATE

SCALE: 1/2 (UNO)
DRAWN BY: MEH/CL
CHECKED BY: HLB
ORIG. DATE: 12/15/04
DWG #: 04-13-001B

SHEET:
6 OF 6

MAR 25 2004
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SERIES DORAL 3 OUTSWING ALUMINUM
PATIO DOOR (LARGE MISSILE)