



**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)

**Florida Window Systems
7040 NW 77 Terrace
Medley, FL 33166**

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 High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Aluminum Casement Window

APPROVAL DOCUMENT: Drawing No. **W03-36**, titled "Aluminum Casement Window (Impact)", sheets 1 through 5 of 5, prepared by Al Farooq Corporation, dated 5/28/03, with revision date 8/26/03, signed and sealed by Humayoun Farooq, 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 and Small 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 as well as approval document mentioned above.

The submitted documentation was reviewed by **Theodore Berman, P.E.**

Handwritten signature and date: 8/28/03



**NOA No 03-0612.04
Expiration Date: September 18, 2008
Approval Date: September 18, 2003
Page 1**

Florida Window Systems

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

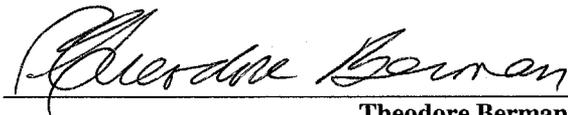
(For File ONLY. Not part of NOA)

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **W03-36**, titled "Aluminum Casement Window (Impact)", sheets 1 through 5 of 5, prepared by Al Farooq Corporation, dated 5/28/03, signed and sealed by Humayoun Farooq, 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
along with marked-up drawings and installation diagram of an aluminum casement window, prepared by Hurricane Engineering & Testing, Inc. Test Report No. HETI-03-1312 dated 4/17/03, signed and sealed by Rafael Droz, P.E.
2. Test reports on 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an aluminum casement vinyl window, prepared by Hurricane Engineering & Testing, Inc. Test Report No. HETI-02-1752 dated 12/3/02, signed and sealed by Rafael Droz, P.E.
3. 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
along with marked-up drawings and installation diagram of an aluminum casement vinyl window, prepared by Hurricane Engineering & Testing, Inc. Test Report No. HETI-02-1230 dated 6/23/02, signed and sealed by Rafael Droz, P.E.
4. Test reports on 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an aluminum casement vinyl window, prepared by Hurricane Engineering & Testing, Inc. Test Report No. HETI-02-1751 dated 12/3/02, signed and sealed by Rafael Droz, P.E.
5. 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
along with marked-up drawings and installation diagram of an aluminum casement vinyl window, prepared by Hurricane Engineering & Testing, Inc. Test Report No. HETI-02-1235 dated 7/3/02, signed and sealed by Rafael Droz, P.E.



Theodore Berman, P.E.

Deputy Director, Product Control Division

NOA No 03-0612.04

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(For File ONLY. Not part of NOA)

6. Test reports on 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an aluminum casement vinyl window, prepared by Hurricane Engineering & Testing, Inc. Test Report No. HETI-02-1703 dated 7/9/02, signed and sealed by Rafael Droz, P.E.
7. 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
along with marked-up drawings and installation diagram of an aluminum casement vinyl window, prepared by Hurricane Engineering & Testing, Inc. Test Report No. HETI-02-1234 dated 7/3/02, signed and sealed by Rafael Droz, P.E.
8. Test reports on 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an aluminum casement vinyl window, prepared by Hurricane Engineering & Testing, Inc. Test Report No. HETI-02-1702 dated 7/8/02, signed and sealed by Rafael Droz, P.E.

C. CALCULATIONS

1. Anchor Calculations, ASTM E1300-97 and structural analysis, by Al Farooq Corporation, dated 5/28/03, signed and sealed by Humayoun Farooq, P.E.

D. MATERIAL CERTIFICATIONS

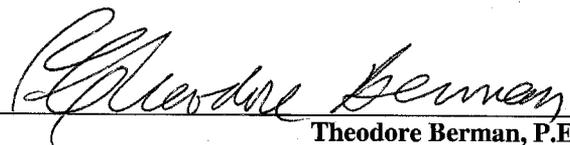
1. Notice of Acceptance No. **00-0524.06** issued to Glasslam NGI, Inc. for "Safety-Plus Laminated Glass" dated 9/21/00, expiring on 9/9/03.
2. Notice of Acceptance No. **01-0205.02** issued to Solutia, Inc. for "Saflex/Keepsafe Maximum" dated 5/17/01, expiring on 5/21/06.

E. STATEMENTS

1. Statement letter of conformance, dated 5/27/03, signed and sealed by Humayoun Farooq, P.E.
2. Statement letter of no financial interest, dated 5/27/03, signed and sealed by Humayoun Farooq, P.E.

F. OTHER

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

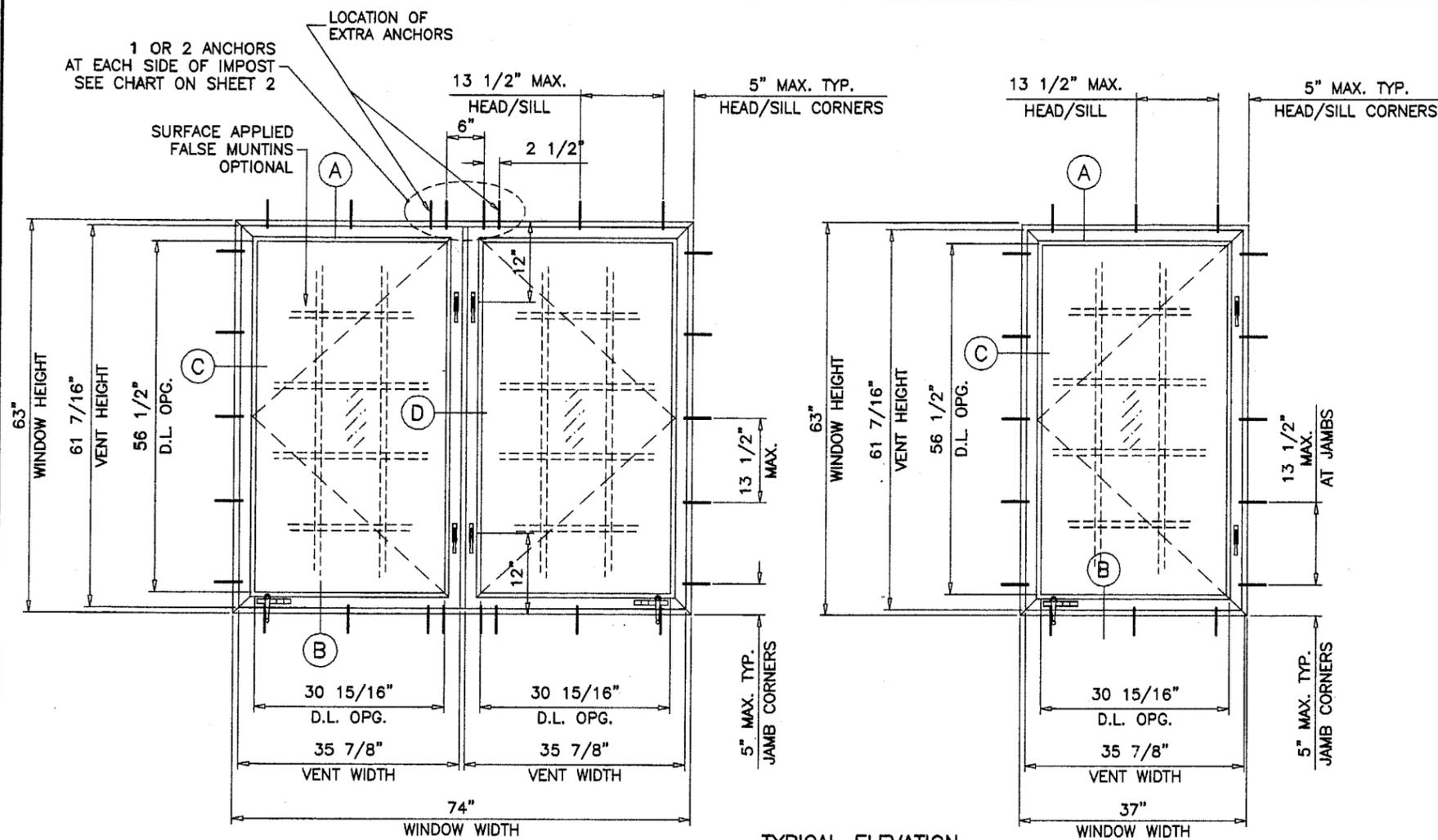

Theodore Berman, P.E.

Deputy Director, Product Control Division

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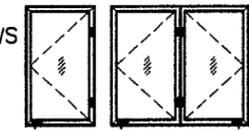
TYPICAL ELEVATION
TESTED UNIT

ALUMINUM CASEMENT WINDOW (IMPACT)

DESIGN LOAD RATING FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEET 2.

WINDOWS GLAZED WITH LAMINATED GLASS RATED FOR LARGE MISSILE IMPACT AND DO NOT REQUIRE SHUTTERS.

APPROVAL APPLIES TO SINGLE VENT WINDOWS OR DUAL VENT WINDOWS USING INTEGRAL IMPOST.



THIS PRODUCT IS DESIGNED TO COMPLY WITH THE HIGH VELOCITY HURRICANE ZONE OF THE 2001 FLORIDA BUILDING CODE. ALSO FOR WIND LOADS AS PER ASCE 7-88, ASCE 7-93, ASCE 7-95 OR ASCE 7-98 AS REQUIRED BY PREVAILING BUILDING CODE.

WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

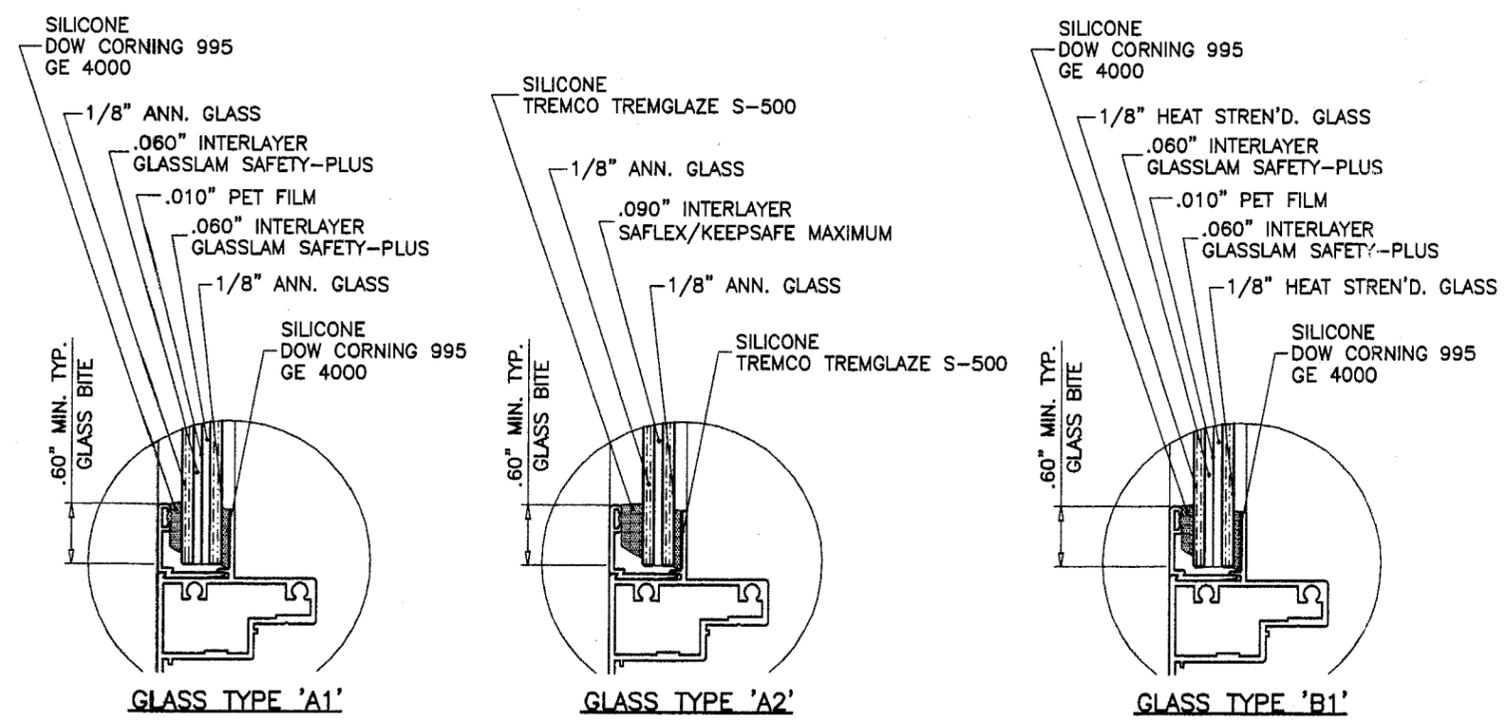
ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

STEEL IN CONTACT WITH ALUMINUM TO BE PAINTED WITH A HEAVY BODIED BITUMINOUS PAINT OR BE GALVANIZED.

Approved as complying with the
Florida Building Code
Date 09/16/03
NOA# 03-0612.04
Miami Dade Product Control
Division
By *Alfred Berma*

Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557
C.A.N. 3538
[Signature]
JUN 2 2003



GLAZING OPTIONS

afc
AL-FAROOQ CORPORATION
ENGINEERS, PLANNERS & PRODUCT DESIGN
1235 SW 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANI\W03-36FWS

ALUMINUM CASEMENT WINDOW (IMPACT)
FLORIDA WINDOW SYSTEMS
7040 N.W. 77 TERRACE
MEDLEY, FL. 33166
TEL. (305) 805-9420 FAX (305) 805-9424

no.	date	description
A	8.26.03	STEEL NOTE ADDED

date: 05-28-03
scale: 1/2" = 1'-0"
dr. by: HAMID
chk. by:

drawing no.
W03-36
sheet 1 of 5

DESIGN LOAD CAPACITY - PSF FOR (X) SIZES					
WINDOW DIMS.		GLASS TYPES 'A1' & 'A2'		GLASS TYPE 'B1'	
WIDTH	HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
19-1/8"	26" (3)	55.0	55.0	75.0	80.0
26-1/2"		55.0	55.0	75.0	80.0
37"		55.0	55.0	75.0	80.0
19-1/8"	38-3/8" (4)	55.0	55.0	75.0	80.0
26-1/2"		55.0	55.0	75.0	80.0
37"		55.0	55.0	75.0	80.0
19-1/8"	50-5/8" (5)	55.0	55.0	75.0	80.0
26-1/2"		55.0	55.0	75.0	80.0
37"		55.0	55.0	75.0	80.0
19-1/8"	63" (5)	45.5	45.5	75.0	80.0
26-1/2"		34.0	34.0	75.0	80.0
37"		-	-	75.0	80.0
19-1/8"	74-1/4" (6)	27.5	27.5	75.0	80.0
26-1/2"		-	-	66.8	66.8
18"	24" (3)	55.0	55.0	75.0	80.0
24"		55.0	55.0	75.0	80.0
30"		55.0	55.0	75.0	80.0
36"		55.0	55.0	75.0	80.0
18"	36" (3)	55.0	55.0	75.0	80.0
24"		55.0	55.0	75.0	80.0
30"		55.0	55.0	75.0	80.0
36"		55.0	55.0	75.0	80.0
18"	48" (4)	55.0	55.0	75.0	80.0
24"		55.0	55.0	75.0	80.0
30"		55.0	55.0	75.0	80.0
36"		55.0	55.0	75.0	80.0
18"	60" (5)	55.0	55.0	75.0	80.0
24"		43.2	43.2	75.0	80.0
30"		35.9	35.9	75.0	80.0
36"		-	-	75.0	80.0
18"	72" (6)	32.0	32.0	75.0	80.0
24"		24.5	24.5	75.0	80.0
30"		-	-	66.0	66.0

() = NO. OF ANCHORS PER JAMB

SEE SHEET 1 FOR DESCRIPTION OF GLASS TYPES

DESIGN LOAD CAPACITY - PSF FOR (XX) SIZES									
WINDOW DIMS.		UNREINFORCED CENTER POST				REINFORCED CENTER POST			
		1 ANCHOR AT EACH SIDE OF IMPOST				1 ANCHOR AT EACH SIDE OF IMPOST		2 ANCHOR AT EACH SIDE OF IMPOST	
		GLASS TYPES 'A1' & 'A2'		GLASS TYPE 'B1'		GLASS TYPE 'B1'		GLASS TYPE 'B1'	
WIDTH	HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
26-1/2"	26" (3)	55.0	55.0	75.0	80.0	75.0	80.0	75.0	80.0
37"		55.0	55.0	75.0	80.0	75.0	80.0	75.0	80.0
53-1/8"		55.0	55.0	75.0	80.0	75.0	80.0	75.0	80.0
26-1/2"	38-3/8" (4)	55.0	55.0	75.0	80.0	75.0	80.0	75.0	80.0
37"		55.0	55.0	75.0	80.0	75.0	80.0	75.0	80.0
53-1/8"		55.0	55.0	75.0	80.0	75.0	80.0	75.0	80.0
26-1/2"	50-5/8" (5)	55.0	55.0	75.0	80.0	75.0	80.0	75.0	80.0
37"		55.0	55.0	75.0	80.0	75.0	80.0	75.0	80.0
53-1/8"		55.0	55.0	75.0	80.0	75.0	80.0	75.0	80.0
26-1/2"	63" (5)	55.0	55.0	75.0	80.0	75.0	80.0	75.0	80.0
37"		47.0	47.0	75.0	80.0	75.0	80.0	75.0	80.0
53-1/8"		34.0	34.0	65.8	65.8	75.0	80.0	75.0	80.0
26-1/2"	74-1/4" (6)	39.2	39.2	75.0	79.0	75.0	80.0	75.0	80.0
37"		28.4	28.4	57.2	57.2	75.0	80.0	75.0	80.0
53-1/8"		-	-	40.9	40.9	66.7	66.7	66.7	66.7
24"	24" (3)	55.0	55.0	75.0	80.0	75.0	80.0	75.0	80.0
36"		55.0	55.0	75.0	80.0	75.0	80.0	75.0	80.0
48"		55.0	55.0	75.0	80.0	75.0	80.0	75.0	80.0
60"		55.0	55.0	75.0	80.0	75.0	80.0	75.0	80.0
24"	36" (3)	55.0	55.0	75.0	80.0	75.0	80.0	75.0	80.0
36"		55.0	55.0	75.0	80.0	75.0	80.0	75.0	80.0
48"		55.0	55.0	75.0	80.0	75.0	80.0	75.0	80.0
60"		55.0	55.0	75.0	80.0	75.0	80.0	75.0	80.0
24"	48" (4)	55.0	55.0	75.0	80.0	75.0	80.0	75.0	80.0
36"		55.0	55.0	75.0	80.0	75.0	80.0	75.0	80.0
48"		55.0	55.0	75.0	80.0	75.0	80.0	75.0	80.0
60"		55.0	55.0	75.0	80.0	75.0	80.0	75.0	80.0
24"	60" (5)	55.0	55.0	75.0	80.0	75.0	80.0	75.0	80.0
36"		55.0	55.0	75.0	80.0	75.0	80.0	75.0	80.0
48"		43.2	43.2	75.0	75.5	75.0	80.0	75.0	80.0
60"		35.9	35.9	64.4	64.4	75.0	80.0	75.0	80.0
24"	72" (6)	47.4	47.4	75.0	80.0	75.0	80.0	75.0	80.0
36"		32.0	32.0	64.5	64.5	75.0	80.0	75.0	80.0
48"		24.5	24.5	49.3	49.3	75.0	77.2	75.0	80.0
60"		-	-	40.5	40.5	65.0	65.0	66.0	66.0

() = NO. OF ANCHORS PER JAMB

Approved as complying with the
Florida Building Code
Date 09/19/03
NOAH 03-0612.04
Miami Dade Product Control
Division

Glenn Gorman

Engr. DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557
C.A.N. 3538

AUG 27 2003

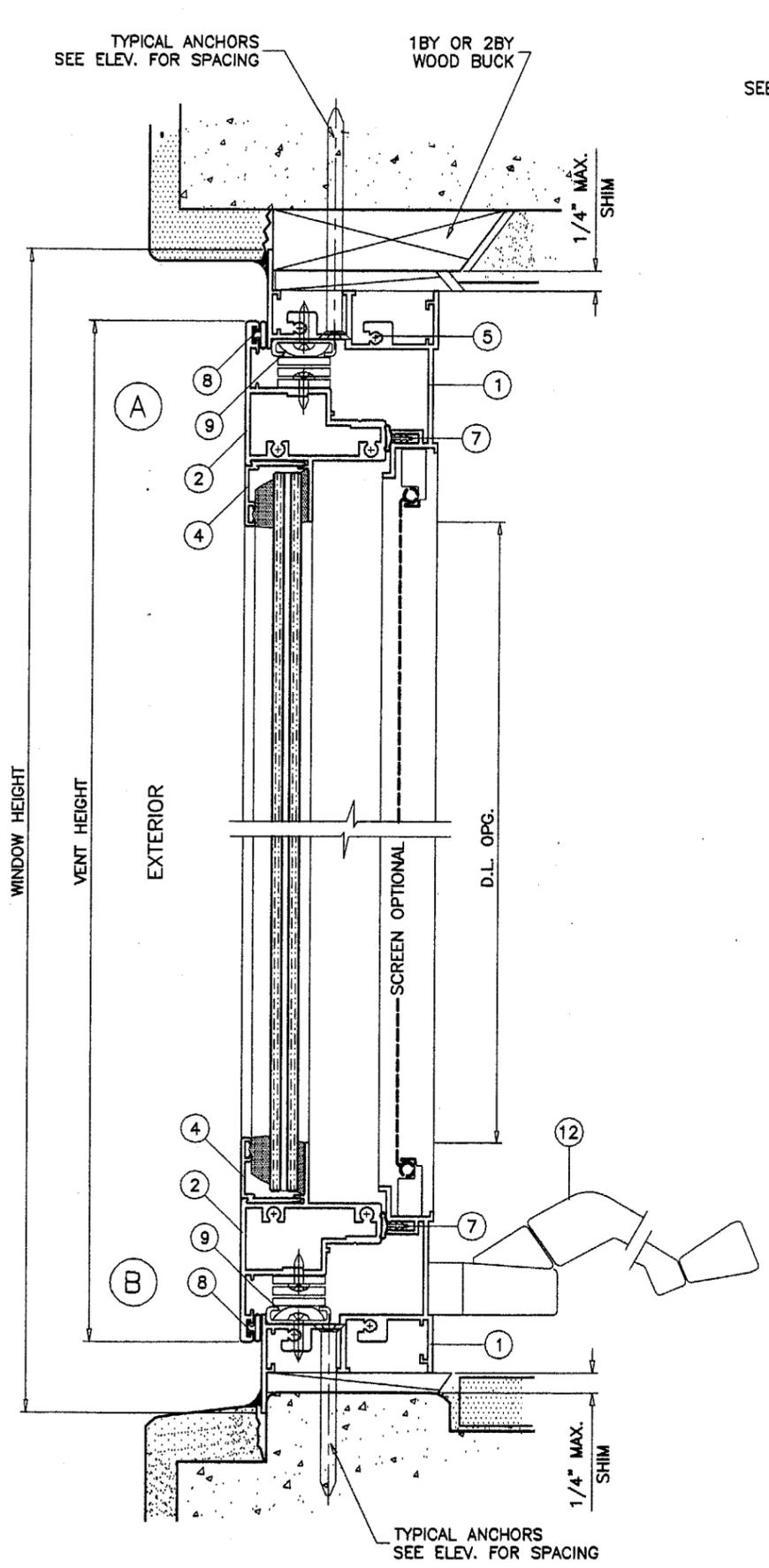
AL-FAROOQ CORPORATION
ENGINEERS, PLANNERS & PRODUCT DESIGN
1235 SW 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COMP-ANL-W03-36FWS

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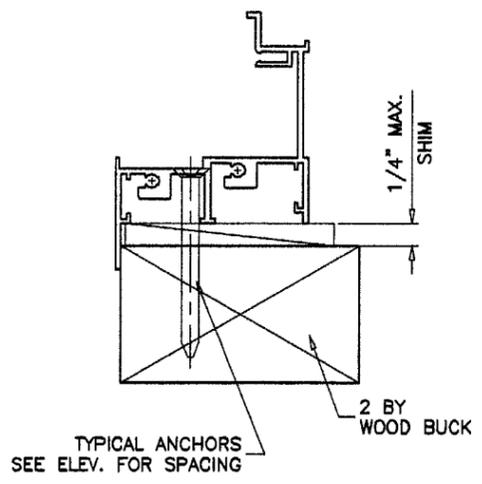
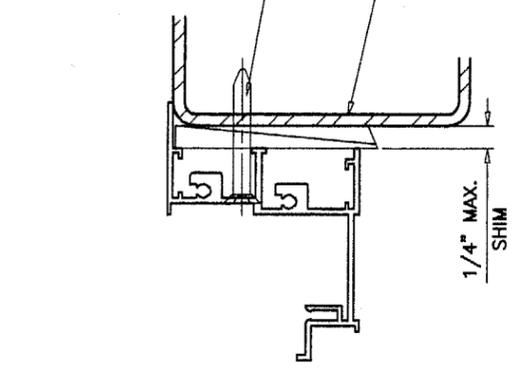
no	date	description
A	8.26.03	NO CHANGE THIS SHEET.

date: 05-28-03
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
W03-36
sheet 2 of 5



METAL STRUCTURES (STEEL OR ALUM. 1/8" MIN. THICK)
STEEL : $F_y = 36$ KSI MIN.
ALUMINUM : 6063-T5 MIN.



WOOD BUCKS NOT BY FLORIDA WINDOWS, MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

3/16" TAPCONS

INTO 2BY WOOD BUCKS OR WOOD STRUCTURE
1-3/8" MIN. PENETRATION INTO WOOD
THRU 1BY BUCKS INTO MASONRY OR DIRECTLY INTO MASONRY
1-1/4" MIN. EMBED INTO CONC. OR MASONRY

3/16" TEKS OR SELF DRILLING SCREWS

INTO METAL STRUCTURES (1/8" MIN. THICKNESS)
(1/4" MAX. SHIM SPACE)

#10 SMS OR SELF DRILLING SCREWS

INTO DADE COUNTY APPROVED MULLIONS
(NO SHIM SPACE)

SEALANTS:

ALL FRAME AND VENT CORNERS AND INSTALLATION SCREWS
SEALED WITH CLEAR/ALUMINUM COLORED SEALANT.

Approved as complying with the
Florida Building Code
Date 09/18/03
NOA# 03-0612.04
Miami Dade Product Control
Div
By *Glenn Berman*

Engr: DR. HUMAYOUN FAROOQ
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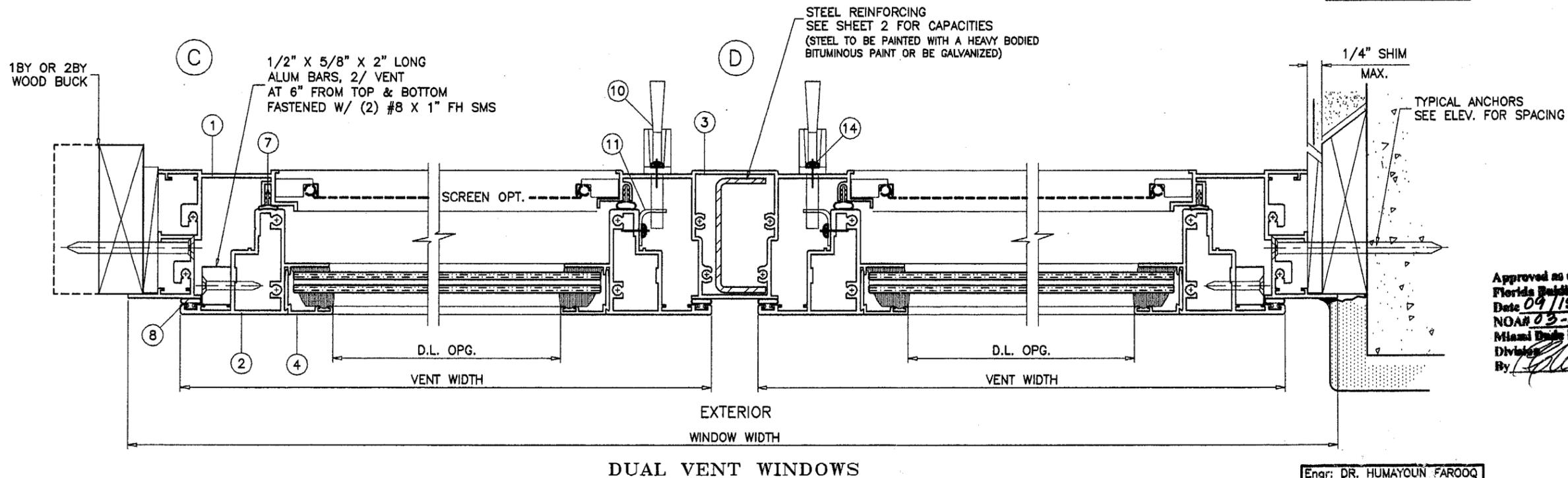
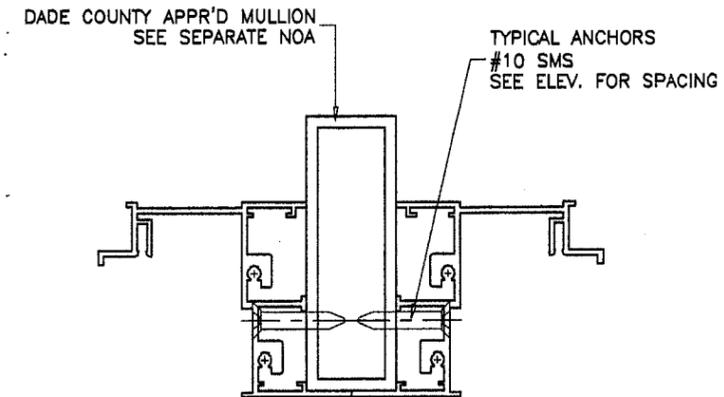
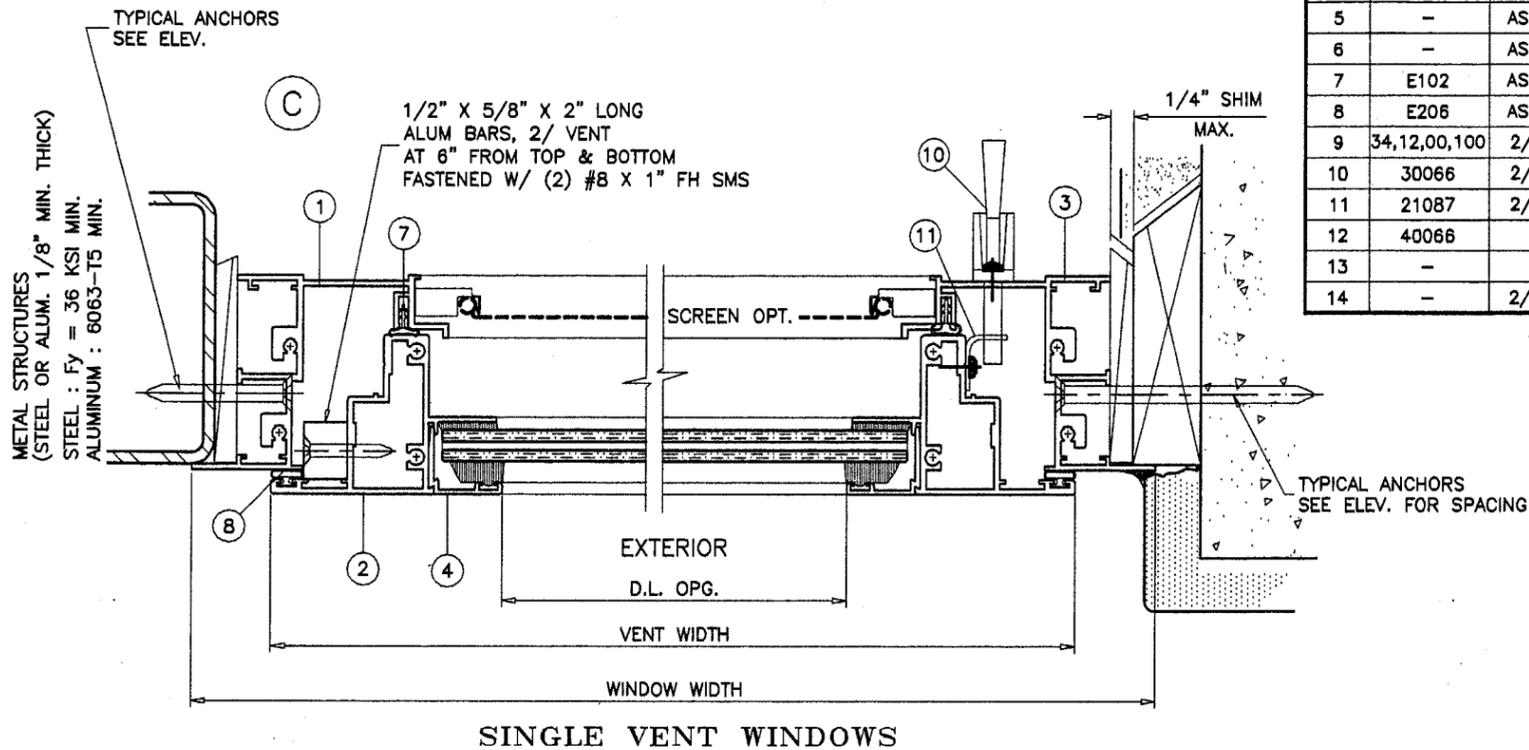
no	date	description
A	8.26.03	NO CHANGE THIS SHEET

date: 05-28-03
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
W03-36

sheet 3 of 5

ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	FWS-009	4	FRAME	6063-T6	-
2	FWS-011	4	VENT	6063-T6	-
3	FWS-010	1	CENTER POST	6063-T6	-
4	FWG-008	AS REQD.	GLAZING BEAD	6063-T5	-
5	-	AS REQD.	FRAME ASSEMBLY SCREWS	ST. STEEL	#10 X 3/4" PH SMS
6	-	AS REQD.	VENT ASSEMBLY SCREWS	ST. STEEL	#10 X 1-1/2" PH SMS
7	E102	AS REQD.	FRAME WEATHERSTRIPPING (.078 X .300)	VINYL	ULTRAFAB
8	E206	AS REQD.	VENT WEATHERSTRIPPING (.187 X .350)	VINYL	ULTRAFAB
9	34,12,00,100	2/ VENT	4 BAR HINGE, AT TOP AND BOTTOM	STEEL	TRUTH, ATTACHED W/ (6) #8 X 3/8" SS SMS
10	30066	2/ VENT	LEVER TYPE FACE MOUNT LOCK	STEEL	TRUTH, AT 12" FROM TOP AND BOTTOM
11	21087	2/ VENT	LOCK KEEPERS, AT FRAME JAMB FACING LOCK	STEEL	ATTACHED W/ (2) #10 X 3/8" SS SMS
12	40066	1	ROTO OPERATOR	STEEL	TRUTH, ATTACHED W/ (4) #8 X 3/8" SS SMS
13	-	-	.057 THICK CORNER KEY	ST. STEEL	1-1/2" X 1-1/2" X 1/2"
14	-	2/ LOCK	LOCK INSTALLATION SCREWS	-	#12 X 1/2" PH SMS



Approved as complying with the Florida Building Code
 Date 09/18/03
 NOA# 03-0612.04
 Miami Dade Product Control
 Division
 By: *Mervin Beaman*

Engr: DR. HUMAYOUN FAROOQ
 STRUCTURES
 FLA. PE # 16557
 C.A.N. 3538

AUG 27 2003

afc
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 ENGINEERS, PLANNERS & PRODUCT DESIGN
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 MIAMI, FLORIDA 33174
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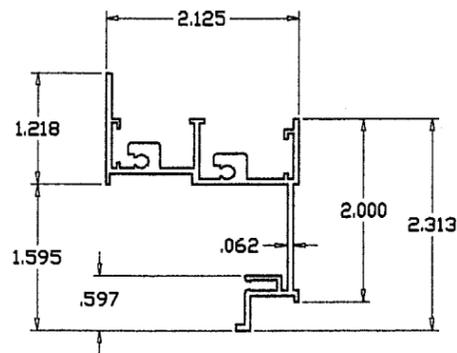
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FLORIDA WINDOW SYSTEMS
 7040 N.W. 77 TERRACE
 MEDLEY, FL. 33166
 TEL. (305) 805-9420 FAX (305) 805-9424

no	date	by description	STEE NOTE REV.
A	8.26.03		

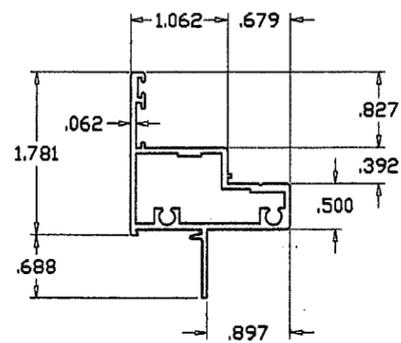
date: 05-28-03
 scale: 1/2" = 1"
 dr. by: HAMID
 chk. by:

drawing no.
W03-36

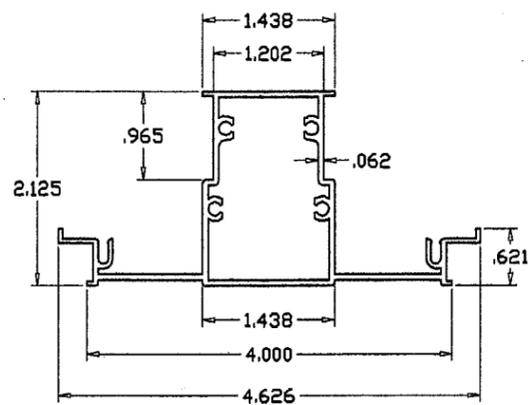
sheet 4 of 5



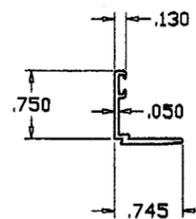
FRAME



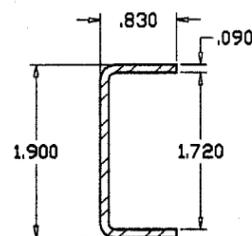
VENT



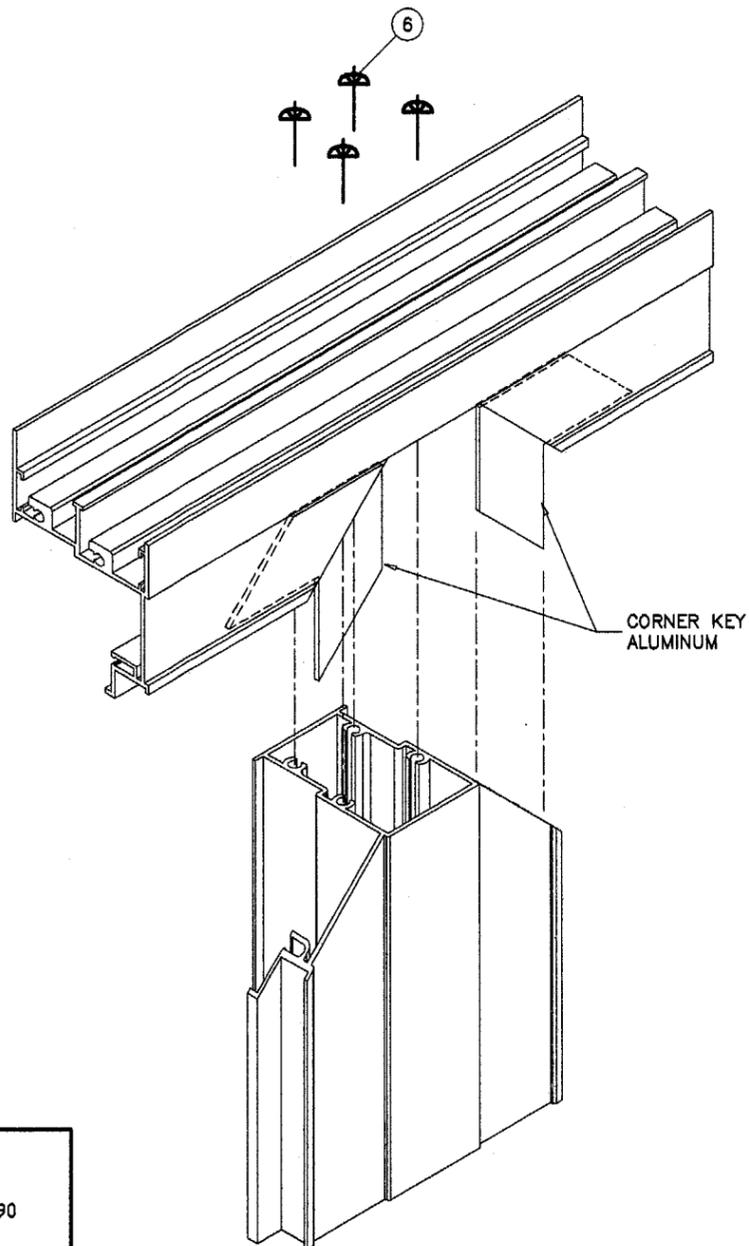
IMPOST



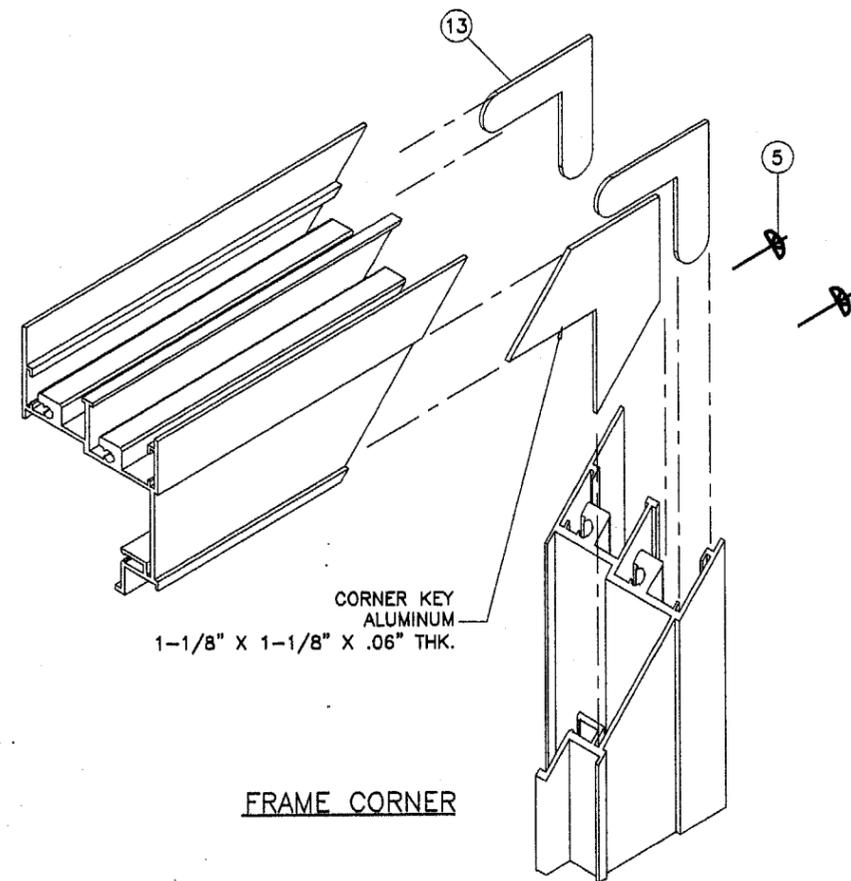
GLAZING BEAD



REINFORCING CHANNEL
36 KSI STEEL



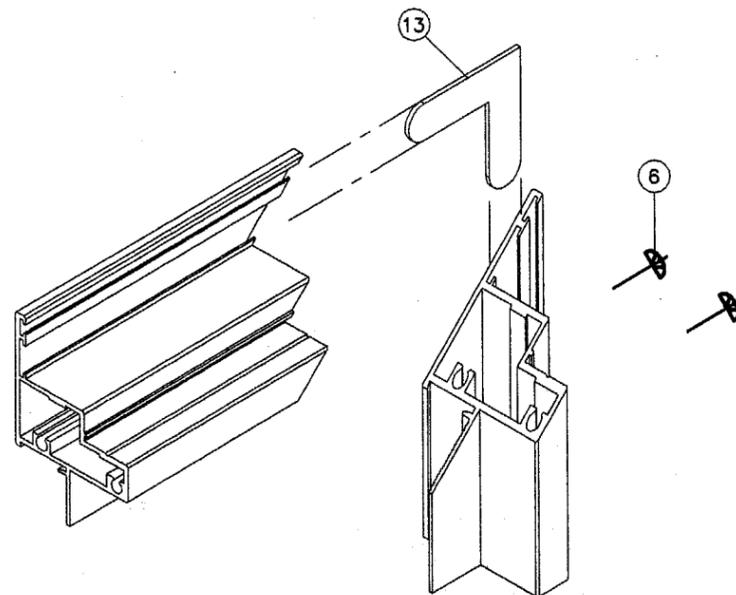
IMPOST CORNER



CORNER KEY
ALUMINUM
1-1/8" X 1-1/8" X .06" THK.

FRAME CORNER

ALL FRAME AND VENT CORNERS TO BE
SEALED WITH WHITE/ALUM COLORED SEALANT.

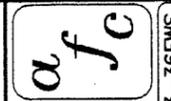


VENT CORNER

Approved as complying with the
Florida Building Code
Date: 09/10/03
NOA# 03-012.04
Miami Dade Product Control
Division
By: *Geordie Gorman*

Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557
C.A.N. 3538

AUG 27 2003



AL-FAROOQ CORPORATION
ENGINEERS, PLANNERS & PRODUCT DESIGN
1235 SW 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978

COMP-ANL\W03-36FWS

ALUMINUM CASEMENT WINDOW (IMPACT)

FLORIDA WINDOW SYSTEMS

7040 N.W. 77 TERRACE
MEDLEY, FL. 33166

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revisions:
no. date by description
A 8.26.03 NO CHANGE THIS SHEET

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dr. by: HAMID

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drawing no.
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sheet 5 of 5