



**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)

**Arch Aluminum & Glass Company
10200 NW 67th Street
Tamarac, FL 33321**

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: Series "PBS 383 Curtain Wall" Aluminum Window Wall System – Small Missile Impact

APPROVAL DOCUMENT: Drawing No. 99-16, titled "Series PBS-383 Curtain Wall/Window Wall System (S.M.I.)", Sheets 1 through 4 of 4, dated 5/27/99 with revision E dated 10/9/02, prepared by Al Farooq Corporation, , signed and sealed Humayoun Farooq, 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: 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 **renews NOA # 00-0630.02**and, consists of this page 1 as well as approval document mentioned above. The submitted documentation was reviewed by **Manuel Perez, P.E.**



**NOA No 02-0904.03
Expiration Date: October 13, 2007
Approval Date: November 21, 2002
Page 1**

Arch Aluminum & Glass Company

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

(For File ONLY. Not part of NOA)

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **99-16**, titled "Series PBS-383 Curtain Wall/Window Wall System (S.M.I.)", Sheets 1 through 4 of 4, dated 5/27/99 with revision E dated 10/9/02, prepared by Al Farooq Corporation, , signed and sealed Humayoun Farooq, P.E.

B. TESTS

1. Test reports on 1) Small Missile Impact Test FBC TAS 201-94 (steel ball bearings)
2) Cyclic Loading Test, per SFBC PA 203-94
along with installation diagram of an aluminum window wall system marked-up by Fenestration Testing Laboratory, Inc. Test Reports Nos. **FTL-2603**, report dated April 12, 2000, signed and sealed by Aldo P. Gonzalez, P.E.
2. Test reports on 1) Air Infiltration Test, per TAS 202-94
2) Uniform Static Air Pressure Test, Loading per TAS 202-94
3) Water Resistance Test, per TAS 202-94
4) Small Missile Impact Test, FBC TAS 201-94 (gravel)
5) Cyclic Loading Test, per FBC TAS 203-94
along with installation diagram of an aluminum window wall system marked-up by Fenestration Testing Laboratory, Inc. Test Reports Nos. **FTL2281**, reported dated 03/24/99, signed and sealed by Gilbert Diamond, P.E.

Tests performed under approval No. 99-0615.02

C. CALCULATIONS

1. Anchor Verification Calculations and Comparative analysis, dated 10/16/02, prepared Al Farooq Corporation, signed and sealed by Dr. Humayoun Farooq, P.E.

D. MATERIAL CERTIFICATIONS

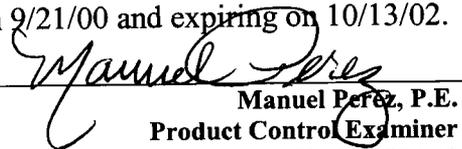
1. Aggregate certificate "Standard Specification for Mineral Aggregate used on Build-up Roofs" per ASTM 1863 D-1836, dated 11-10-1995 issued by CRS Rinker Materials.

E. STATEMENTS

1. None

F. OTHER

1. Notice of Acceptance No. **00-0630.02**, issued to Arch Aluminum & Glass Company for their Series "PBS 383 Curtain Wall" Aluminum Window Wall System – Small Missile Resistant, approved on 9/21/00 and expiring on 10/13/02.



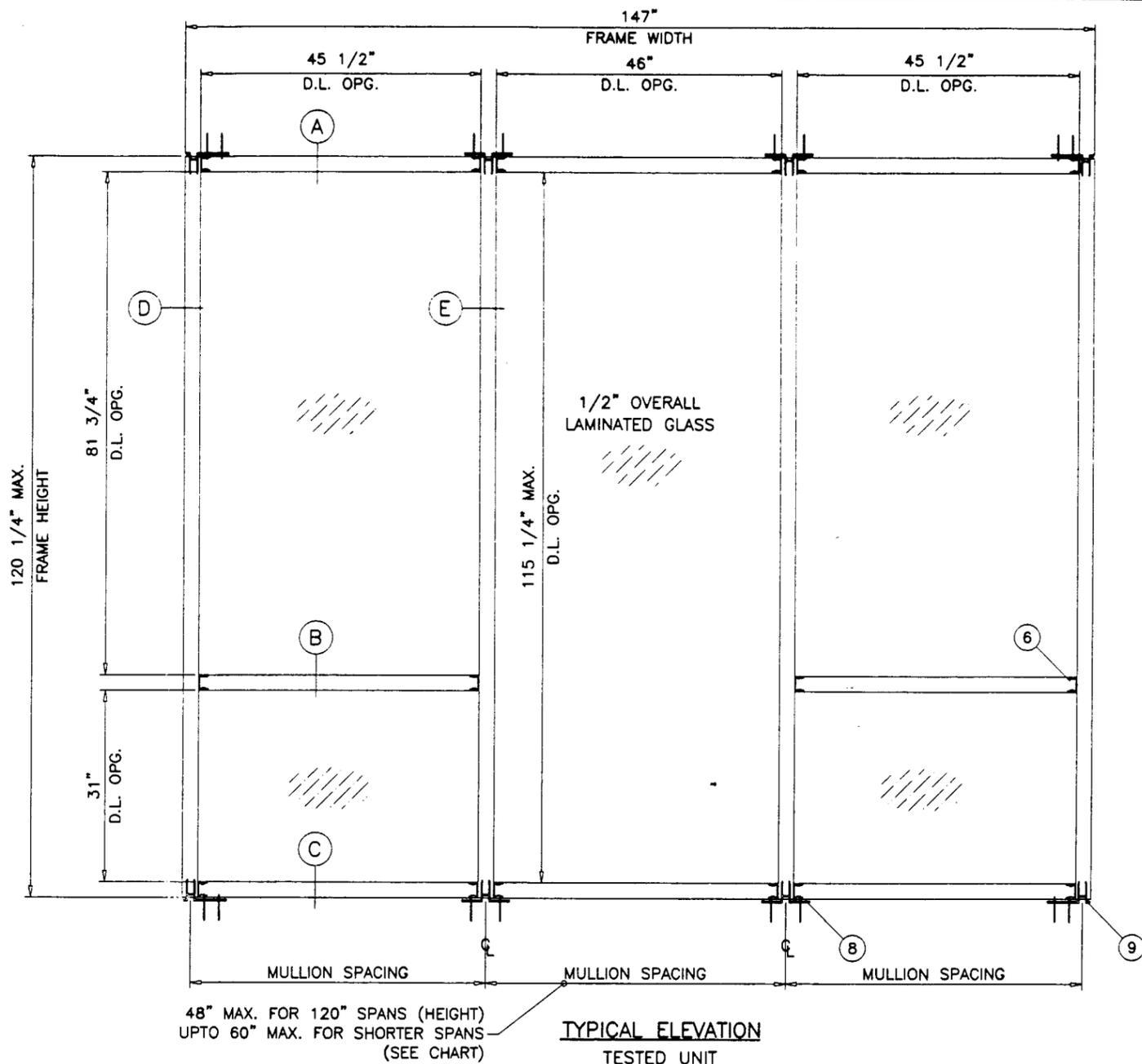
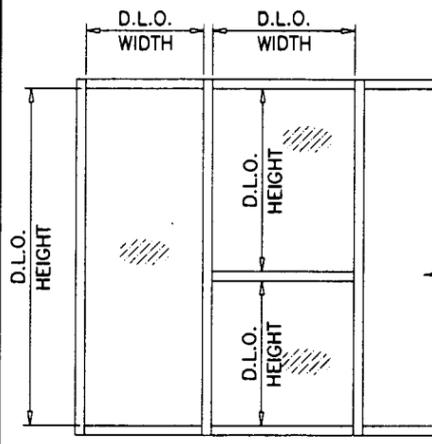
Manuel Perez, P.E.
Product Control Examiner
NOA No 02-0904.03

Expiration Date: October 13, 2007
Approval Date: November 21, 2002

GLASS DESIGN LOAD CAPACITY - PSF			
NOMINAL DIMS.		1/2" LAM. GLASS	
D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+) & INT.(-)	
30"	85"	105.0	
33"		105.0	
36"		105.0	
39"		105.0	
42"		105.0	
45-1/2"		104.4	
48"		103.6	
51-1/2"		102.4	
54"		101.6	
57-1/2"		99.6	
30"	91"	105.0	
33"		105.0	
36"		105.0	
39"		102.4	
42"		98.0	
45-1/2"		95.2	
48"		94.4	
51-1/2"		93.6	
54"		93.2	
57-1/2"		92.0	
30"	97"	105.0	
33"		105.0	
36"		105.0	
39"		96.4	
42"		90.8	
45-1/2"		87.6	
48"		86.8	
51-1/2"		86.0	
54"		85.6	
30"		103"	105.0
33"	105.0		
36"	101.2		
39"	91.6		
42"	85.6		
45-1/2"	81.6		
48"	80.0		
51-1/2"	79.2		
30"	109"		105.0
33"			105.0
36"		98.4	
39"		88.0	
42"		81.2	
45-1/2"		76.4	
48"		74.8	
30"		115-1/4"	105.0
33"			105.0
36"			96.4
39"	85.2		
42"	77.6		
45-1/2"	72.4		

MULLION LOAD CAPACITY - PSF					
NOMINAL DIMS.		EXTERIOR (+) AND INTERIOR (-)			
MULL SPACING	FRAME HEIGHT	ANCHOR 'A'	ANCHOR 'B'	ANCHOR 'C' & 'D'	
30"	90"	93.4	105.0	105.0	
36"		77.9	105.0	105.0	
42"		66.7	92.3	105.0	
48"		58.4	80.8	105.0	
54"		51.9	71.8	105.0	
60"		46.7	64.6	105.0	
30"	96"	87.6	105.0	105.0	
36"		73.0	101.0	105.0	
42"		62.6	86.6	105.0	
48"		54.8	75.8	105.0	
54"		48.7	67.3	105.0	
60"		43.8	60.6	105.0	
30"	102"	82.4	105.0	105.0	
36"		68.7	95.1	105.0	
42"		58.9	81.5	105.0	
48"		51.5	71.3	105.0	
54"		45.8	63.4	105.0	
60"		40.9	56.5	105.0	
30"	108"	77.9	105.0	105.0	
36"		64.9	89.8	105.0	
42"		55.6	77.0	105.0	
48"		48.7	67.3	105.0	
30"		114"	73.8	102.1	105.0
36"			61.5	85.1	105.0
42"	52.7		72.9	105.0	
48"	46.1		63.8	105.0	
30"	120"		70.1	97.0	105.0
36"			58.4	80.8	105.0
42"		50.1	69.3	105.0	
48"		43.8	60.6	94.8	

APPROVAL APPLIES TO MULTIPLE UNIT INSTALLATIONS



SERIES PBS-383 CURTAIN WALL/WINDOW WALL SYSTEM (S.M.I.)

THIS SYSTEM IS RATED FOR SMALL MISSILE IMPACT.
 MIAMI-DADE COUNTY APPROVED IMPACT RESISTANT SHUTTERS
 REQUIRED FOR INSTALLATIONS UP TO 30 FT. OF GRADE.
 SHUTTERS NOT REQUIRED FOR INSTALLATIONS ABOVE
 30 FT. OF GRADE.
 SEE MULLION CHART TO DETERMINE DESIGN LOAD CAPACITY OF MULLIONS.
 SEE GLASS CHART TO DETERMINE DESIGN LOAD CAPACITY OF GLASS.
 CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

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.
 ALL STEEL IN CONTACT WITH ALUMINUM TO BE PAINTED OR PLATED.

Engr: DR. HUMAYOUN FAROOQ
 STRUCTURES
 FLA. PE # 16557
 OCT 16 2002

PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No 02-0904-03
 Expiration Date 10/13/03
 By: *Mauro Perry*
 Miami Dade Product Control
 Division

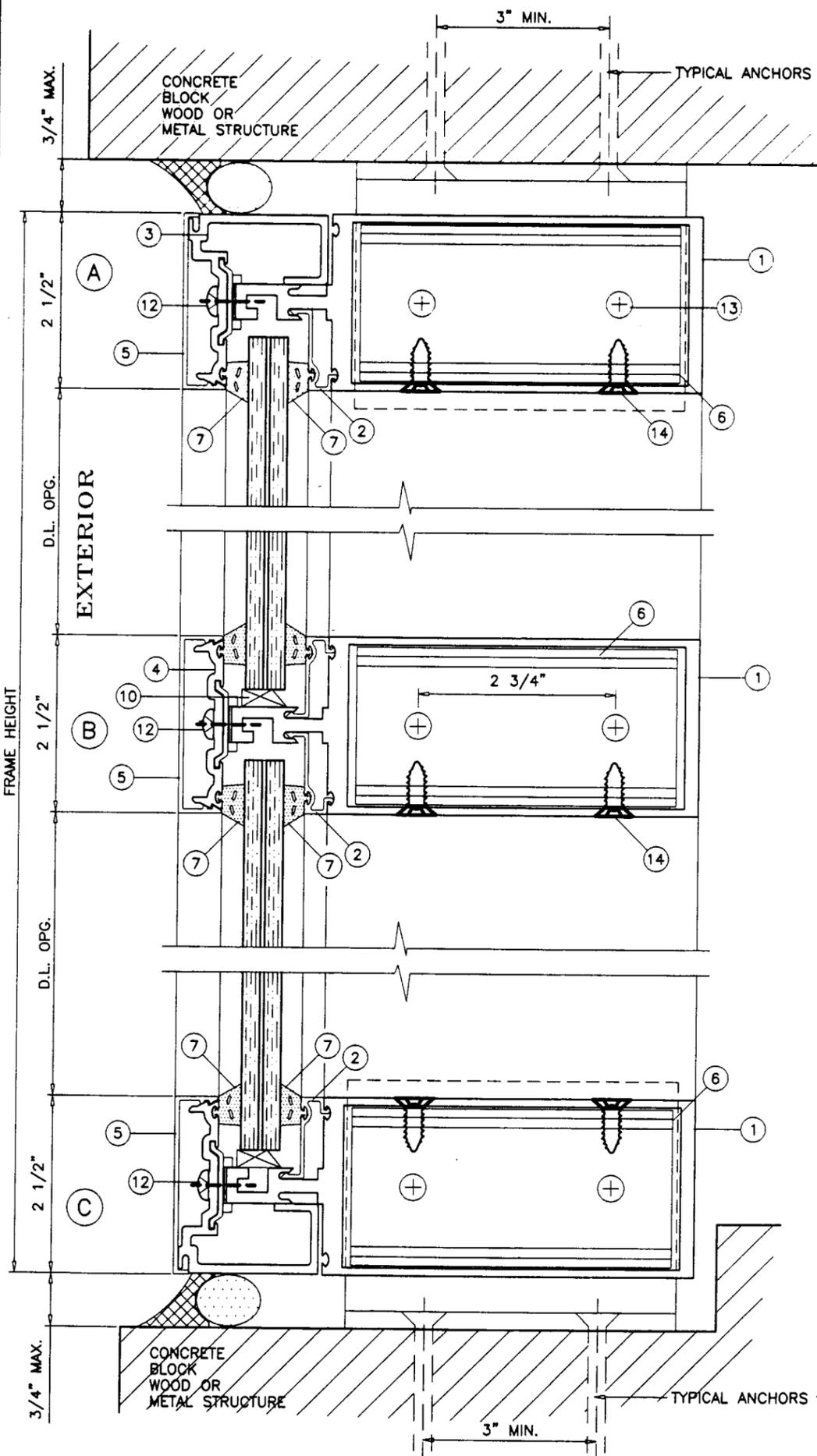
AL-FAROOQ CORPORATION
 ENGINEERS, PLANNERS & PRODUCT DESIGN
 1235 SW 87 AVE
 MIAMI, FLORIDA 33174
 TEL. (305) 264-8100 FAX. (305) 262-6978

SERIES PBS-383 CURTAIN WALL/WINDOW WALL SYSTEM (S.M.I.)
ARCH ALUMINUM & GLASS L.C.
 10200 N.W. 67th street
 TAMARAC, FL. 33321
 TEL. (800) 432-8132 FAX. (954) 724-9293

no	date	description
A	8.30.99	GENERAL REVISION
B	9.21.99	GENERAL REVISION
C	9.27.99	PRODUCT NAME REV.
D	06.10.00	9/16" GLASS ADDED
E	10.09.02	1/4" GLASS REMOVED

date: 05-27-99
 scale: 1/2" = 1"
 dr. by: HAMID
 chk. by:

drawing no.
99-16
 sheet 1 of 4



MATERIALS LIST					
ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	38309	AS REQD.	FRAME HEAD/SILL/JAMB/MULLION	6063-T6	ARCH ALUMINUM
2	38332	AS REQD.	GLAZING ADAPTER	6063-T5	ARCH ALUMINUM
3	38324	AS REQD.	END PRESSURE PLATE	6063-T5	ARCH ALUMINUM
4	38364	AS REQD.	CENTER PRESSURE PLATE	6005-T6	ARCH ALUMINUM
5	-	AS REQD.	SNAP IN COVER	6063-T6	ARCH ALUMINUM
6	38365	1/ HORIZ. CORNER	SHEAR BLOCK	6063-T5	ARCH ALUMINUM
7	05481-47	AS REQD.	GLAZING GASKET	EPDM	-
8	38395	1/ END	'H' ANCHOR CLIP AT CENTER MULLION	6005-T6	ARCH ALUMINUM
9	38396	1/ END	'F' ANCHOR CLIP AT END MULLION	6005-T6	ARCH ALUMINUM
10	BN0812	AS REQD.	SETTING BLOCK AT QUARTER POINTS	EPDM DUR. 90±5	.63" X .61" X 4" LONG
11	-	-	-	-	-
12	1/4-20 X 5/8"	AS REQD.	PRESSURE PL. SCREWS	-	AT 4" FROM ENDS & 8" O.C.
13	1/4-20 X 5/8"	2/ CLIP	SHEAR BLOCK SCREWS	-	PHMS
14	#12-24 X 3/4"	2/ CLIP	SHEAR BLOCK SCREWS	-	FHMS

WOOD BUCKS AND METAL STRUCTURES NOT BY ARCH ALUMINUM MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

ANCHOR 'A'

INTO 2BY WOOD BUCKS OR WOOD STRUCTURE
14 SMS WITH 1-1/2" MIN. EMBED INTO WOOD

ANCHOR 'B'

THRU 1BY WOOD BUCKS INTO MASONRY
1/4" TAPCONS (ELCO OR EQUIV.) WITH 1-1/4" MIN. EMBED INTO MASONRY

ANCHOR 'C'

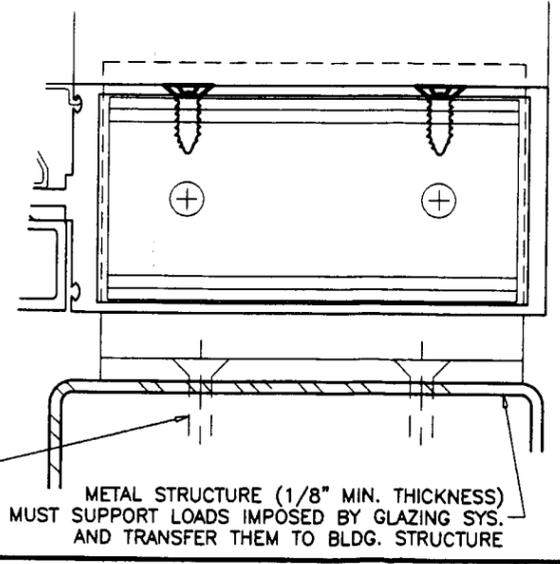
DIRECTLY INTO MASONRY
1/4" TAPCONS (ELCO OR EQUIV.) WITH 1-1/4" MIN. EMBED INTO MASONRY

ANCHOR 'D'

INTO METAL STRUCTURES (STEEL OR ALUMINUM 1/8" MIN. THICKNESS)
14 SMS OR 1/4" SELF DRILLING SCREWS

SEALANTS:

PRESSURE PLATE TO GLASS, PRESSURE PLATE FASTENERS, MULLION AND FRAME CORNER SEAMS ON INTERIOR AND EXTERIOR TO BE SEALED WITH SILICONE.



METAL STRUCTURE (1/8" MIN. THICKNESS) MUST SUPPORT LOADS IMPOSED BY GLAZING SYS. AND TRANSFER THEM TO BLDG. STRUCTURE

NOTE:

PERIMETER INSTALLATIONS MAY BE TO WOOD, WOOD BUCKS, DIRECTLY TO MASONRY OR METAL STRUCTURES USING ANCHORS AS DESCRIBED ABOVE.

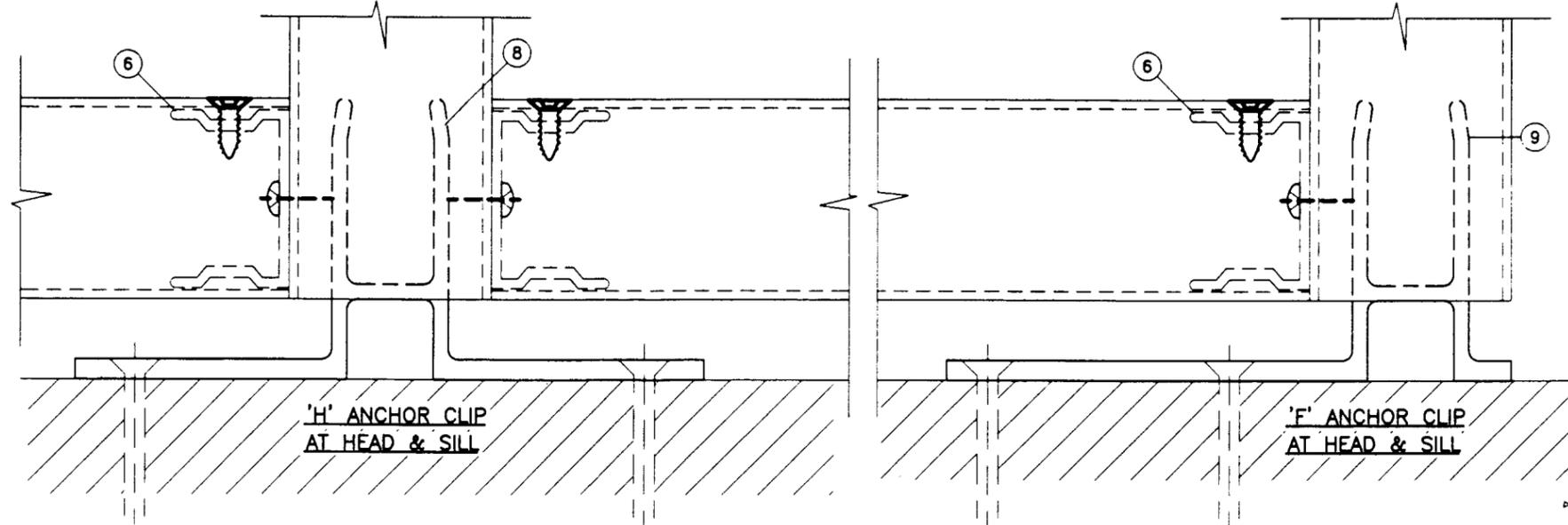
Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557
ACT 16 2002

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 02-0904.03
Expiration Date 10/12/07
By *Mamad Perz*
Miami Dade Product Control
Division

afc
AL-FAROOQ CORPORATION
ENGINEERS, PLANNERS & PRODUCT DESIGN
1235 SW 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
STORE 99-16AA

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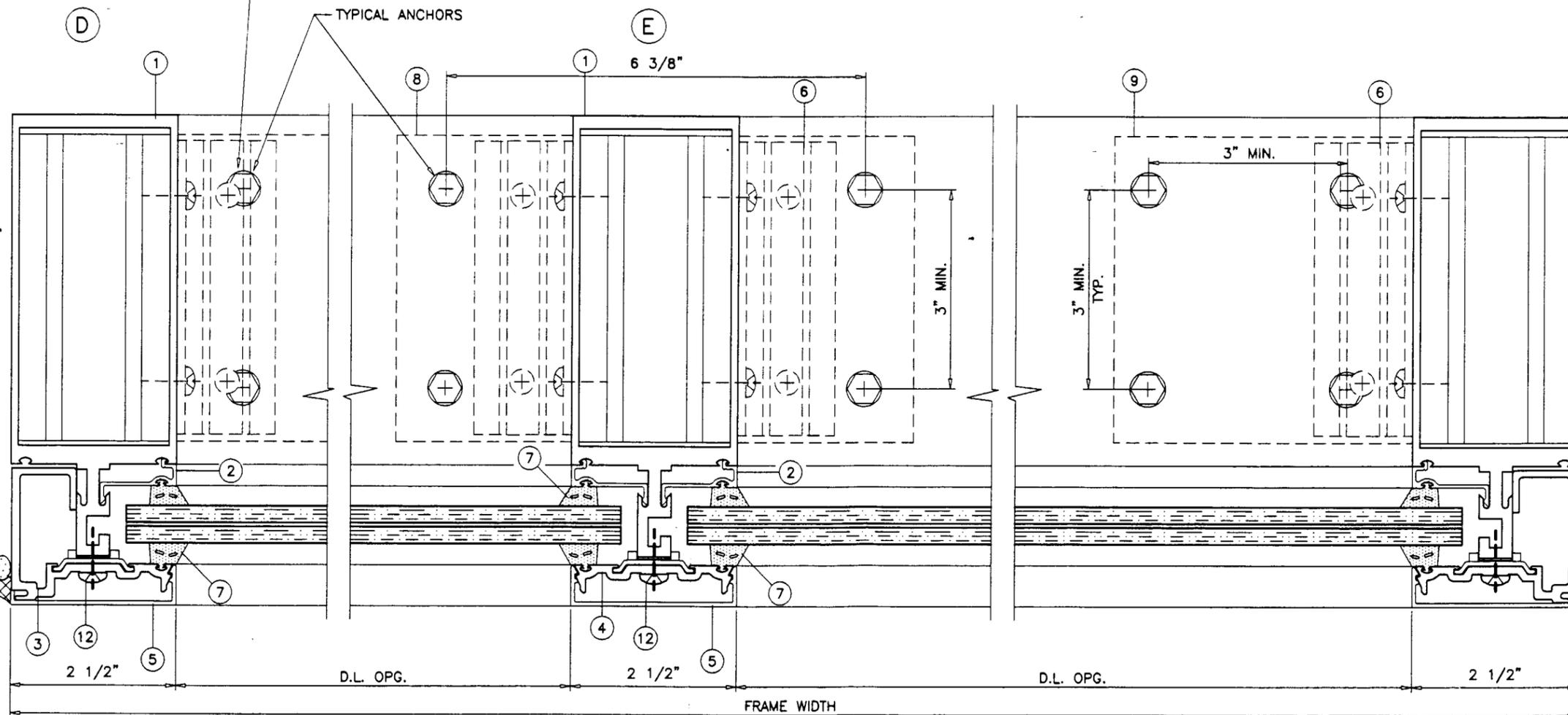
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date:	05-27-99			
scale:	1/2" = 1"			
dr. by:	HAMID			
chk. by:				
drawing no.	99-16			
sheet	2 of 4			



SEE OPPOSITE END FOR FULL JAMB ANCHORS

WOOD BUCK FILLER OPTIONAL BY OTHERS

TYPICAL ANCHORS



EXTERIOR

JAMBS ARE DESIGNED TO BE ANCHORED AT TOP AND BOTTOM ONLY

Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557

~~OCT 16 2002~~

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Expiration Date 10/13/09

By: *Muhammad Syed*
Miami Dade Product Control
Division

afc

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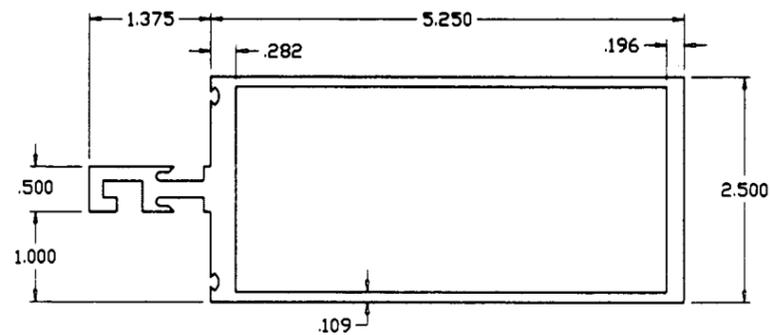
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revisions:

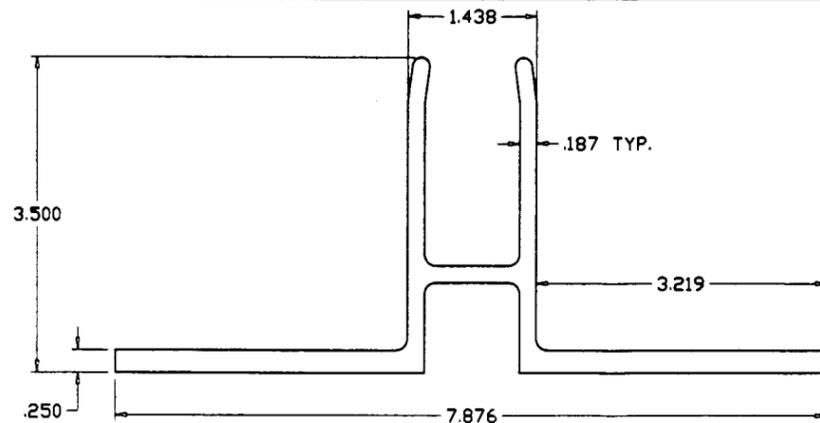
date: 05-27-99
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dr. by: HAMID
chk. by:

drawing no.
99-16

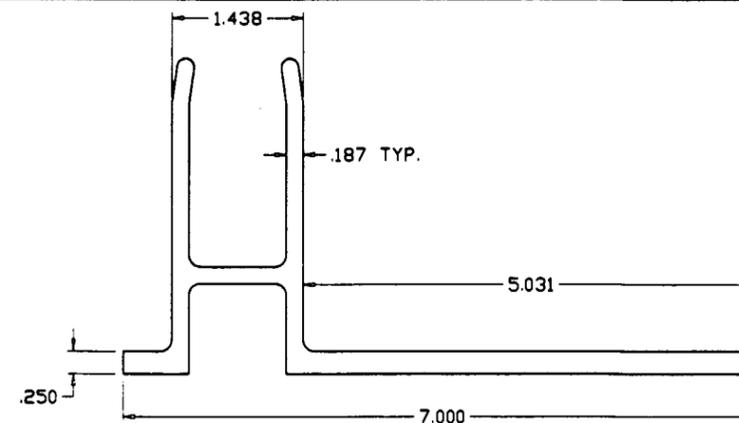
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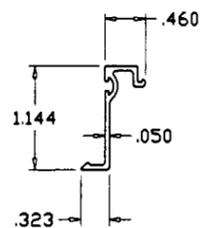
FRAME HEAD/SILL/JAMB/MULLION # 38309



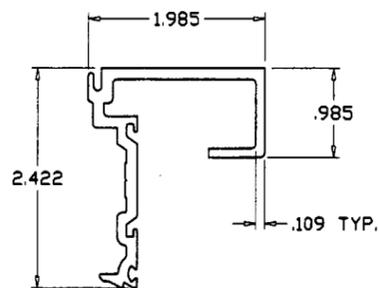
'H' ANCHOR CLIP # 38395



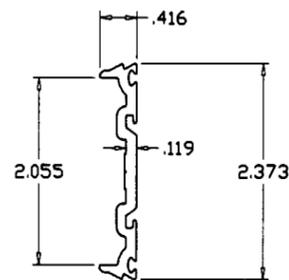
'F' ANCHOR CLIP # 38396



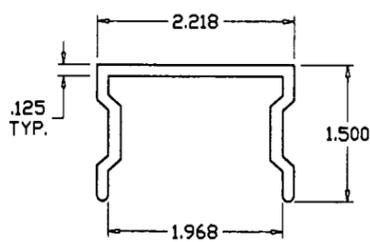
GLAZING BEAD # 38332



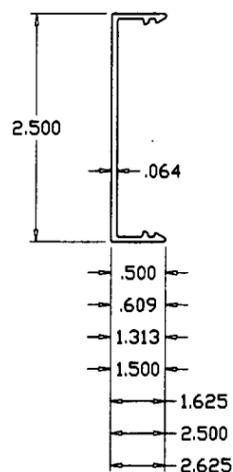
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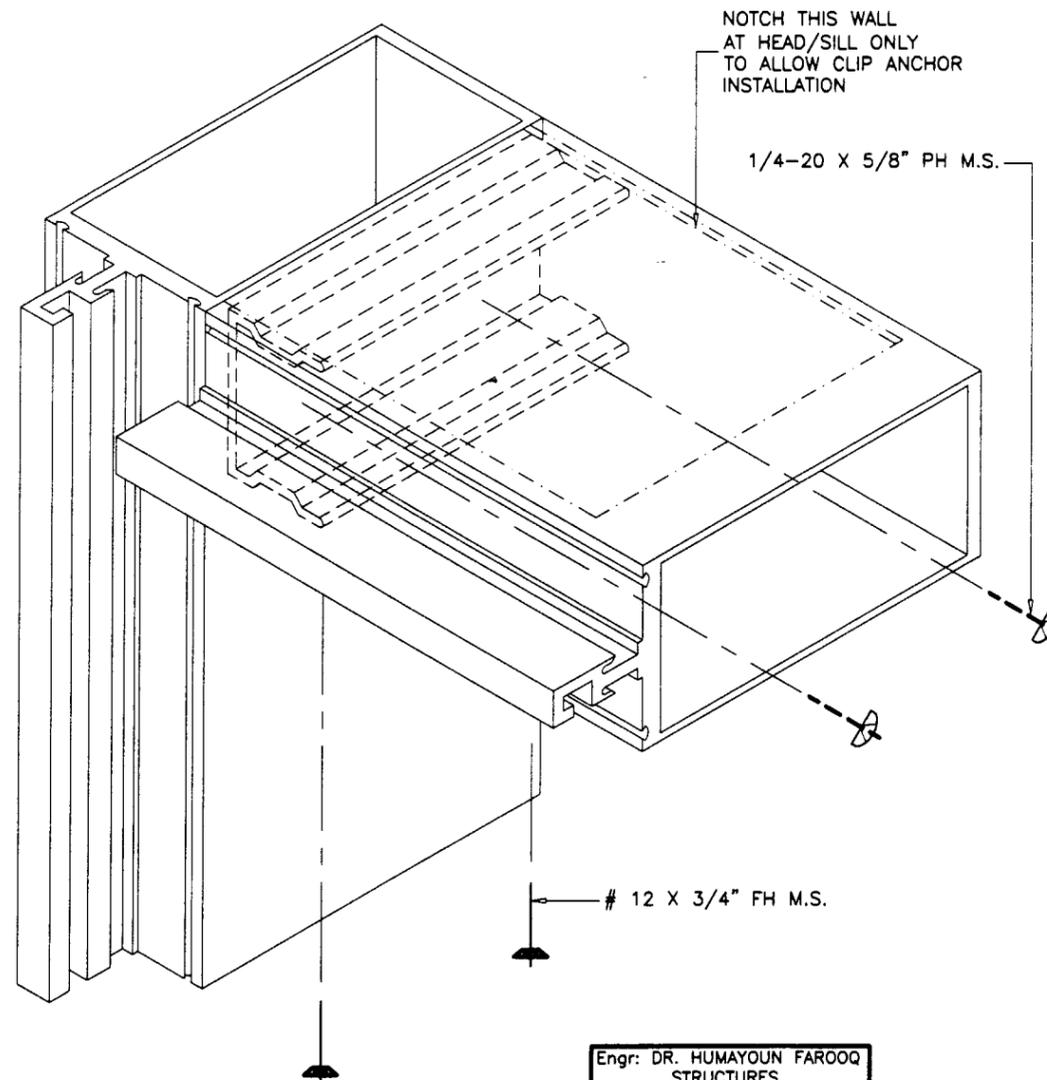
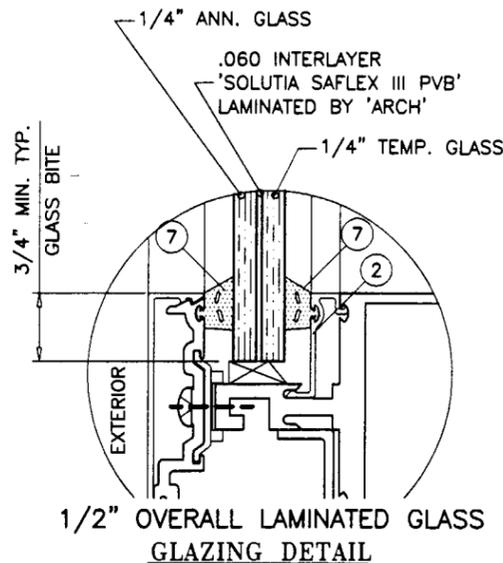
PRESSURE BAR # 38364



SHEAR BLOCK # 38355



SNAP IN COVERS



Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557
OCT 16 2002
By: *Manuel*
Miami Dade Product Control
Division

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no	date	by	description
E	10.09.02		1/4" GLASS REMOVED

date: 05-27-99
scale: 1/2" = 1"
dr. by: HAMID
chk. by:
drawing no.
99-16
sheet 4 of 4