



BUILDING CODE COMPLIANCE OFFICE
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

CONTRACTOR LICENSING SECTION
(305) 375-2527 FAX (305) 375-2558

CONTRACTOR ENFORCEMENT DIVISION
(305) 375-2966 FAX (305) 375-2908

PRODUCT CONTROL DIVISION
(305) 375-2902 FAX (305) 372-6339

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Arch Aluminum & Glass Company
10200 N.W. 67th Street
Tamarac, FL 33321

Your application for Notice of Acceptance (NOA) of:

Series 4500 Flush Glazed Aluminum Storefront System with & without Reinforcement

under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

ACCEPTANCE NO.: 00-1220.05
EXPIRES: 03/19/2006

Raul Rodriguez
Chief Product Control Division

**THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL
CONDITIONS
BUILDING CODE & PRODUCT REVIEW COMMITTEE**

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

APPROVED: 04/12/2001

Arch Aluminum & Glass Company

ACCEPTANCE No.: 00-1220.05

APPROVED : APR 12 2001

EXPIRES : March 19, 2006

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

1.1 This revises and renews the Notice of Acceptance No. 97-0423.05, which was issued on March 19, 1998. It approves an aluminum flush glazed storefront system, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

2. PRODUCT DESCRIPTION

2.1 The Series 4500 Flush Glazed Aluminum Storefront System with and without reinforcement and its components shall be constructed in strict compliance with the following documents: Drawing No 00-13 titled "Series 4500 Alum. Flush Glaze Storefront Sys." Sheets 1 through 8 of 8 dated 07/06/00, prepared by Al-Farooq Corporation, 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. These documents shall hereinafter be referred to as the approved drawings.

3. LIMITATIONS

3.1 This approval applies to multiple unit applications of an aluminum storefront system.
3.2 For the Design Pressure Rating vs. mullion height (span) and mullion spacing (tributary width); with and without reinforcement, and with and without intermediate horizontals, see graphs on sheets 4 and 5 of approved drawing.
3.3 For the Design Pressure Rating vs. anchors type and quantity, see graphs on sheets 6 and 7 of approved drawing.

4. INSTALLATION

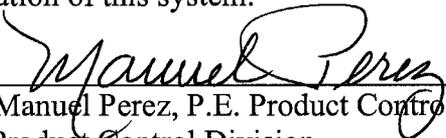
4.1 The aluminum storefront system and its components shall be installed in strict compliance with the approved drawings
4.2 Hurricane protection system (shutters): the installation of this unit will require a hurricane protection system.

5. LABELING

5.1 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".

6. BUILDING PERMIT REQUIREMENTS

6.1 Application for building permit shall be accompanied by copies of the following:
6.1.1 This Notice of Acceptance
6.1.2 Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.
6.1.3 Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.


Manuel Perez, P.E. Product Control Examiner
Product Control Division

Arch Aluminum & Glass Company

ACCEPTANCE No.: 00-1220.05

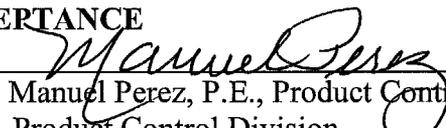
APPROVED : APR 12 2001

EXPIRES : March 19, 2006

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.
2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.
3. Renewals of Acceptance will not be considered if:
 - a. There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes.
 - b. The product is no longer the same product (identical) as the one originally approved.
 - c. If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product.
 - d. The engineer who originally prepared, signed and sealed the required documentation initially submitted, is no longer practicing the engineering profession.
4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
5. Any of the following shall also be grounds for removal of this Acceptance:
 - a. Unsatisfactory performance of this product or process.
 - b. Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purposes.
6. The Notice of Acceptance 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 Notice of Acceptance is displayed, then it shall be done in its entirety.
7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer needs not reseal the copies.
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.

END OF THIS ACCEPTANCE


Manuel Perez, P.E., Product Control Examiner
Product Control Division

Arch Aluminum & Glass Company

ACCEPTANCE No.: 00-1220.05

APPROVED : APR 12 2001

EXPIRES : March 19, 2006

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

(For File ONLY. Not part of NOA.)

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **00-13** titled "Series 4500 Alum. Flush Glaze Storefront Sys." Sheets 1 through 8 of 8 dated 07/06/00, prepared by Al-Farooq Corporation, signed and sealed by Humayoun Farooq, P.E.

B. TESTS

(Submitted under previous approval # 97-0423.05)

1. Test reports on
 - 1) Air Infiltration Test, per PA 202-94
 - 2) Uniform Static Air Pressure Test, Loading per PA 202-94
 - 3) Water Resistance Test, per PA 202-94along with installation diagram of an aluminum storefront system prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-1548**, dated January 15, 1997, signed and sealed by Gilbert Diamond, P.E.

C. CALCULATIONS:

1. Mullion calculations and structural analysis, prepared by Al-Farooq Corporation, dated Nov. 16, 2000, signed and sealed by Humayoun Farooq, P.E.
(Submitted under previous approval # 97-0423.05)
2. Anchor Calculations and Structural Analysis, prepared by Arthur Bromley, P.E., Inc. dated 05/20/97, and 05/22/97, signed and sealed by William D. Cook, P.E

D. MATERIAL CERTIFICATIONS

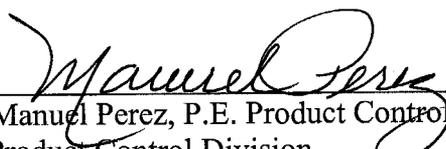
1. None.

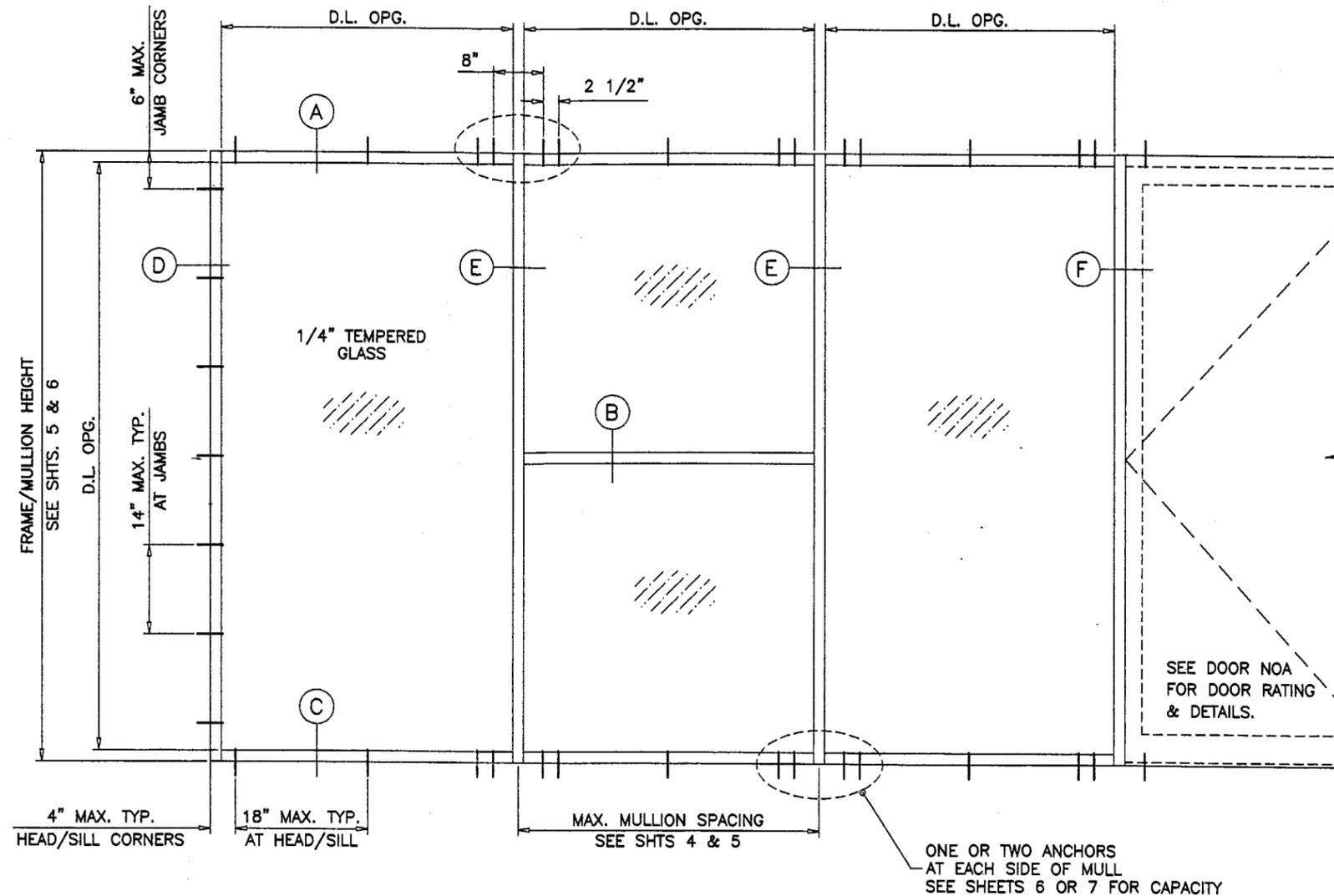
E. STATEMENTS

1. Statement letter of conformance, dated December 19, 2000, signed and sealed by Humayoun Farooq, P.E.
2. Statement letter of no financial interest, dated December 19, 2000, signed and sealed by Humayoun Farooq, P.E.

F. OTHER

1. This approval **renews** and **revises** Notice of Acceptance No. 97-0423.05, issued to Arch Aluminum & Glass Company for their Series 4500 Aluminum Flush Glazed Storefront System, approved on 03/19/98 and expiring on 03/19/01.


Manuel Perez, P.E. Product Control Examiner
Product Control Division



TYPICAL ELEVATION

SERIES 4500
ALUMINUM FLUSH GLAZED STOREFRONT SYSTEM

DOORS: THIS SYSTEM MAY BE USED IN CONJUNCTION WITH MIAMI DADE COUNTY APPROVED OUTSWING ENTRANCE DOORS.

MULLIONS: SEE SHEETS 4 AND 5 TO DETERMINE DESIGN LOAD CAPACITY OF MULLIONS FOR VARIOUS CONFIGURATIONS AND REINFORCEMENT.

ANCHORS: SEE SHEETS 6 & 7 TO DETERMINE THE CAPACITY OF ANCHOR OPTIONS.

CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

NOTES:

1. THIS STRUCTURE IS DESIGNED AS PER THE SOUTH FLORIDA BUILDING CODE 1994 EDITION FOR DADE COUNTY. ALSO FOR WIND LOADS AS PER ASCE 7-88 USING CORRESPONDING LOADS.
2. WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
3. ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
4. ALL STEEL IN CONTACT WITH ALUMINUM TO BE PAINTED OR PLATED.

THIS SYSTEM IS NOT RATED FOR IMPACT. MIAMI DADE COUNTY APPROVED IMPACT RESISTANT SHUTTERS REQUIRED.

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

NOV 16 2000

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
 DATE APR 12 2001
 BY *Manuel Serey*
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 10-1220.05

afc

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

SERIES 4500 ALUM FLUSH GLAZE STOREFRONT SYS.
 ARCH ALUMINUM & GLASS CO.
 10200 NORTHWEST 67TH STREET
 TAMARAC, FL 33321
 TEL (800) 432-8132 FAX (954) 724-9293

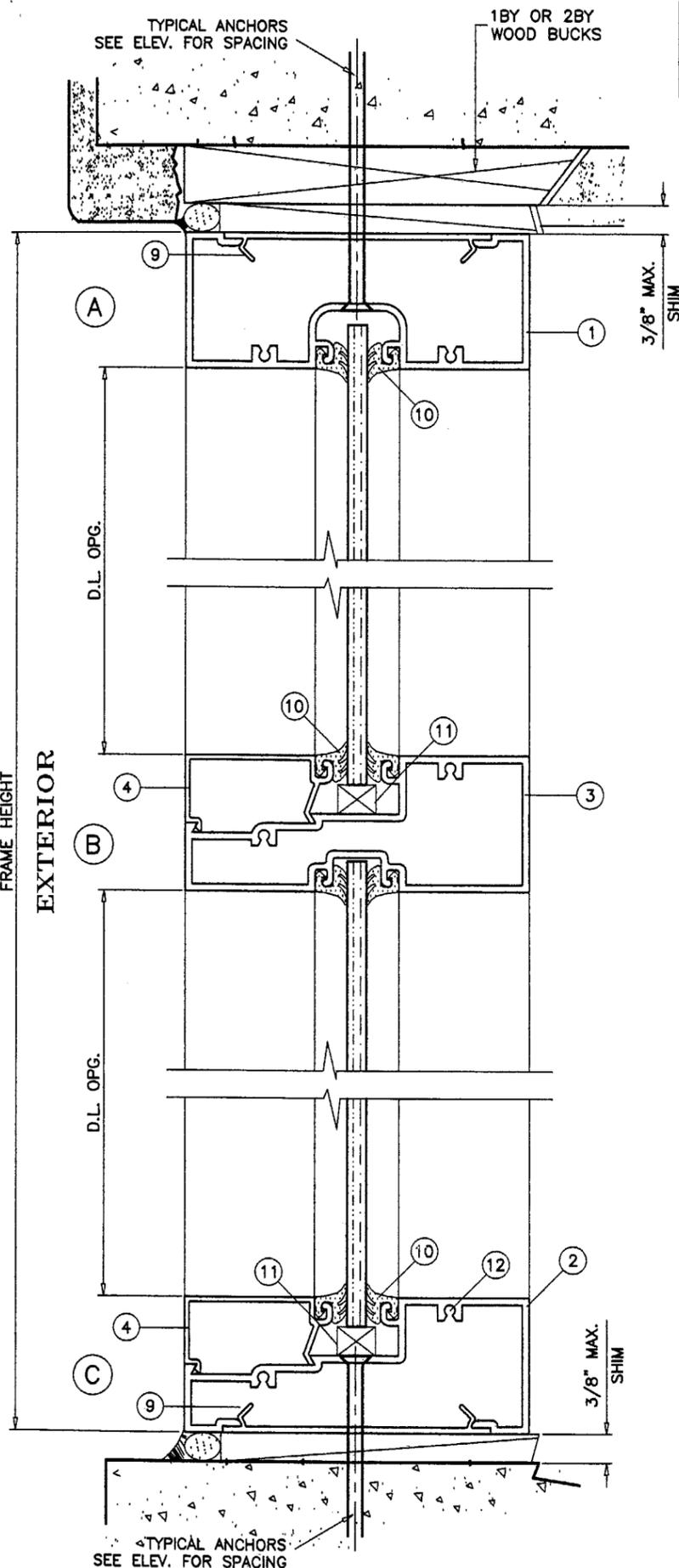
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 scale: 1/2" = 1'-0"
 dr. by: HAMID
 chk. by:

drawing no.
 00-13
 sheet 1 of 8

00 1220.05

STORE\00-13AAC



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

ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	4501	AS REQD.	FRAME HEAD	6063-T5	ARCH ALUM & GLASS CO.
2	4502	AS REQD.	FRAME HORIZONTAL/SILL	6063-T5	ARCH ALUM & GLASS CO.
3	4504	AS REQD.	FRAME HORIZONTAL	6063-T5	ARCH ALUM & GLASS CO.
4	4503	AS REQD.	GLAZING STOP	6063-T5	ARCH ALUM & GLASS CO.
5	4500	AS REQD.	FRAME JAMB/MULLION	6063-T5	ARCH ALUM & GLASS CO.
6	-	-	-	-	-
7	4007	AS REQD.	POCKET FILLER	6063-T5	ARCH ALUM & GLASS CO.
8	-	OPTIONAL	SILL FLASHING	6063-T5	ARCH ALUM & GLASS CO.
9	4008	AS REQD.	SNAP IN COVER, 2-1/2" LONG	6063-T5	ARCH ALUM & GLASS CO.
10	H-63	AS REQD.	GLAZING GASKET	NEOPRENE	ARCH ALUM & GLASS CO.
11	H-62	AS REQD.	SETTING BLOCK AT 1/4" POINTS	NEOPRENE	1/4" 1/2" X 2" LONG
12	#8 X 1-1/4'	2/ CORNER	ASSEMBLY SCREWS PHSMS	STEEL	-

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

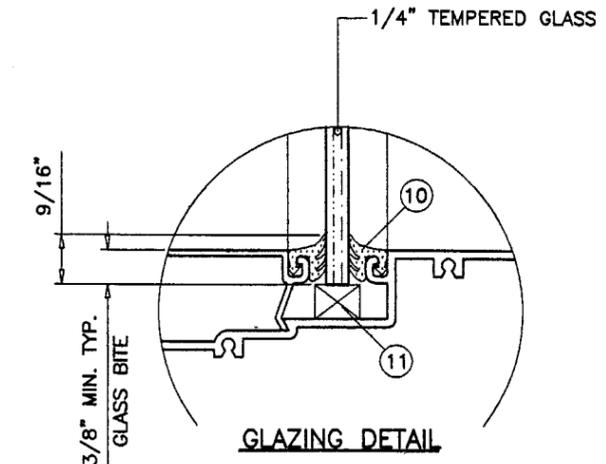
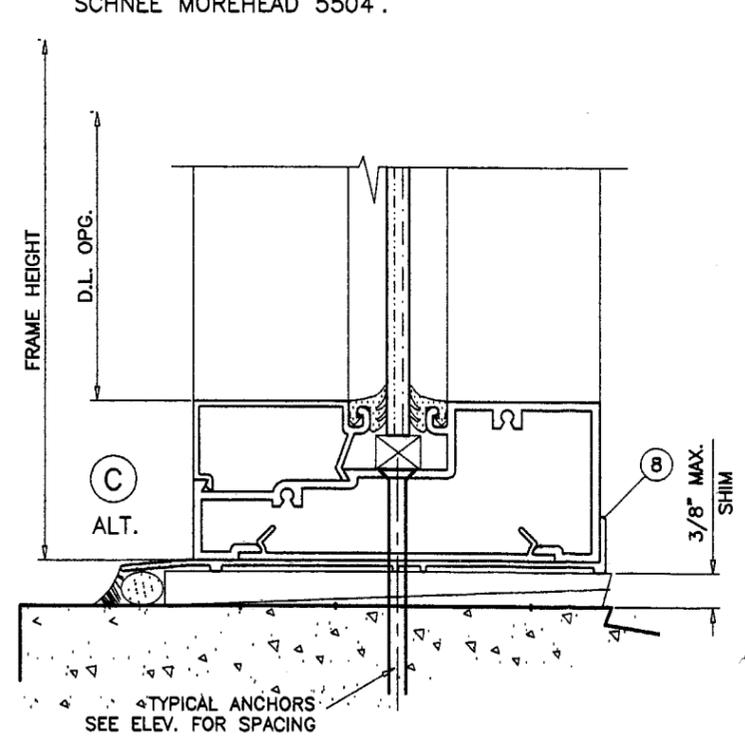
ANCHOR 'A'
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURE
 # 1/4" TAPCONS WITH 1-1/2" MIN. PENETRATION INTO WOOD

ANCHOR 'B'
 THRU 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 'C'
 INTO METAL STRUCTURES (STEEL OR ALUMINUM 1/8" MIN. THICKNESS)
 # 14 SMS OR 1/4" SELF DRILLING SCREWS
 STEEL : Fy = 36 KSI MIN.
 ALUMINUM : 6063-T5 MIN.
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

SEALANTS:
 GLAZING BEAD TO FRAME, MULLION AND FRAME SEAMS AND ALL FRAME CORNERS SEALED WITH CLEAR/ALUM COLORED SILICONE 'SCHNEE MOREHEAD 5504'.



Engr. DR. HUMAYOUN FAROOQ
 STRUCTURES
 FLA. PE # 16557
 NOV 16 2000

APPROVED AS COMPLYING WITH THE
 SOUTH FLORIDA BUILDING CODE
 DATE APR 12 2001
 BY *Muhammad Jaseem*
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 00-1220.05

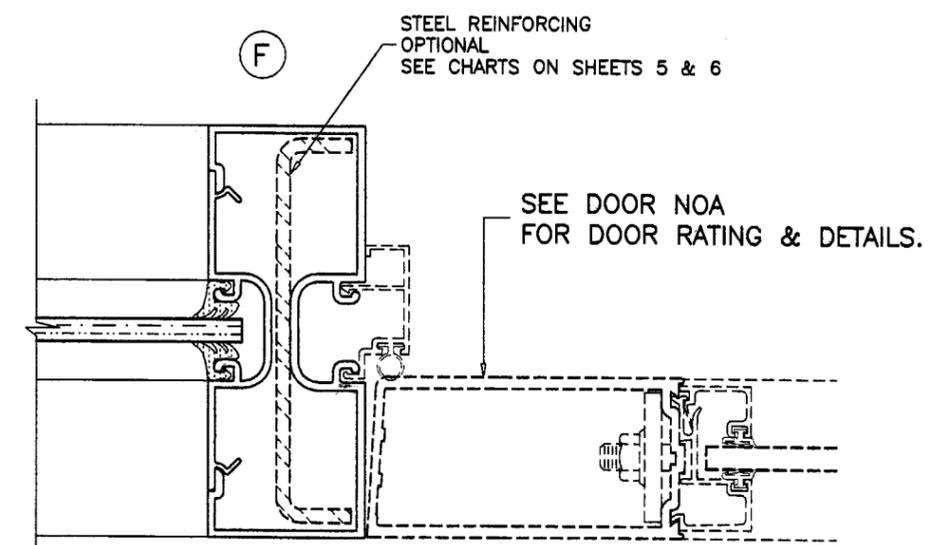
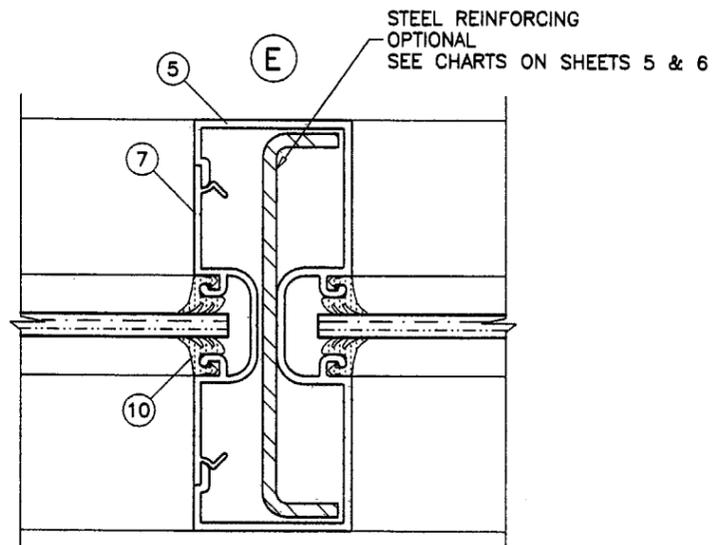
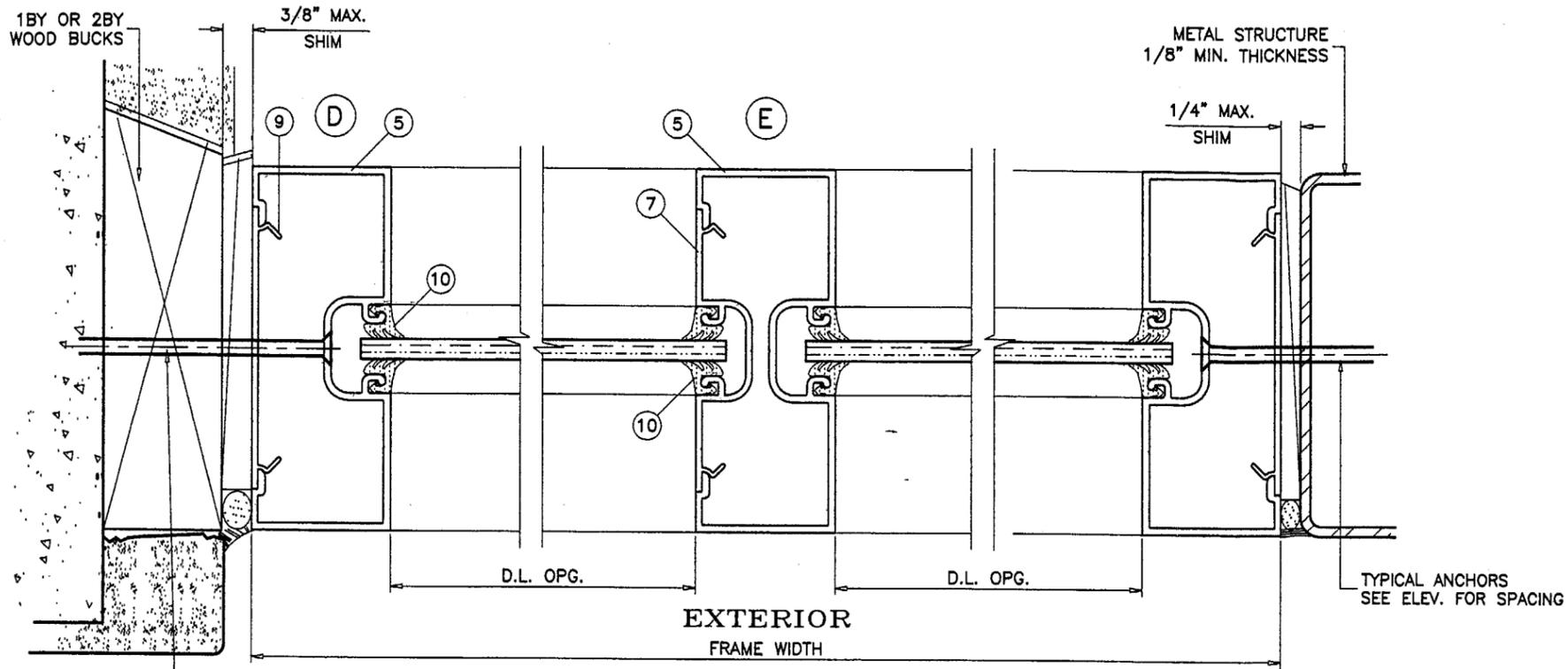
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AL-FAROOQ CORPORATION
 ENGINEERS, PLANNERS & PRODUCT DESIGN
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 MIAMI, FLORIDA 33174
 TEL. (305) 264-8100 FAX. (305) 262-6978
 STORE\00-13AAC

SERIES 4500 ALUM FLUSH GLAZE STOREFRONT SYS.
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drawing no. 00-13		sheet 2 of 8	



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

NOV 16 2000

APPROVED AS COMPLYING WITH THE
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DATE **APR 12 2001**
BY *Mannick J...*
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. **00-1220.05**

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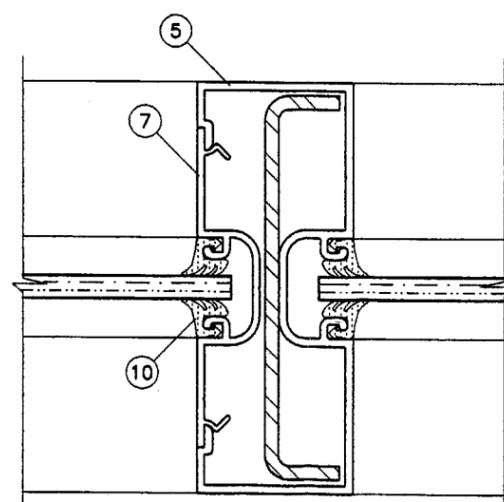
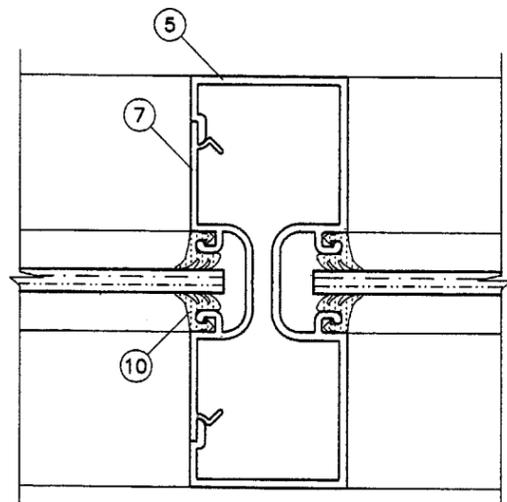
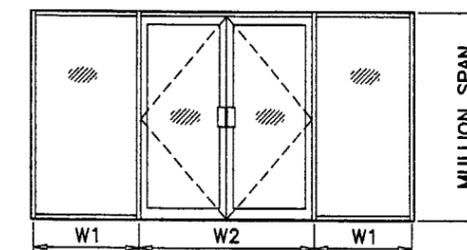
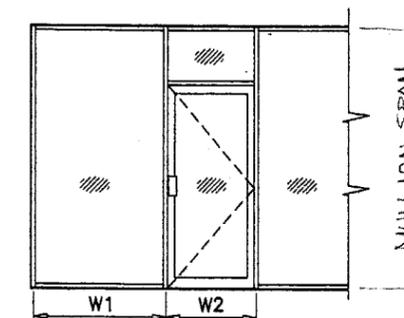
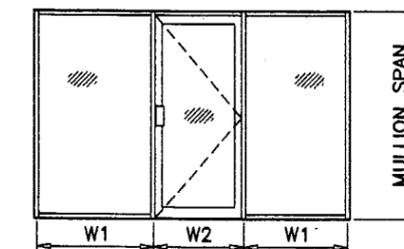
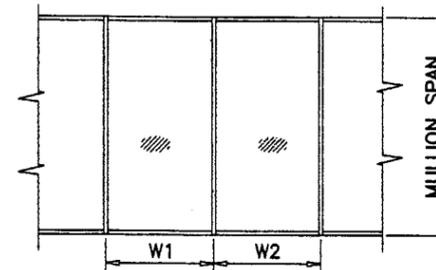
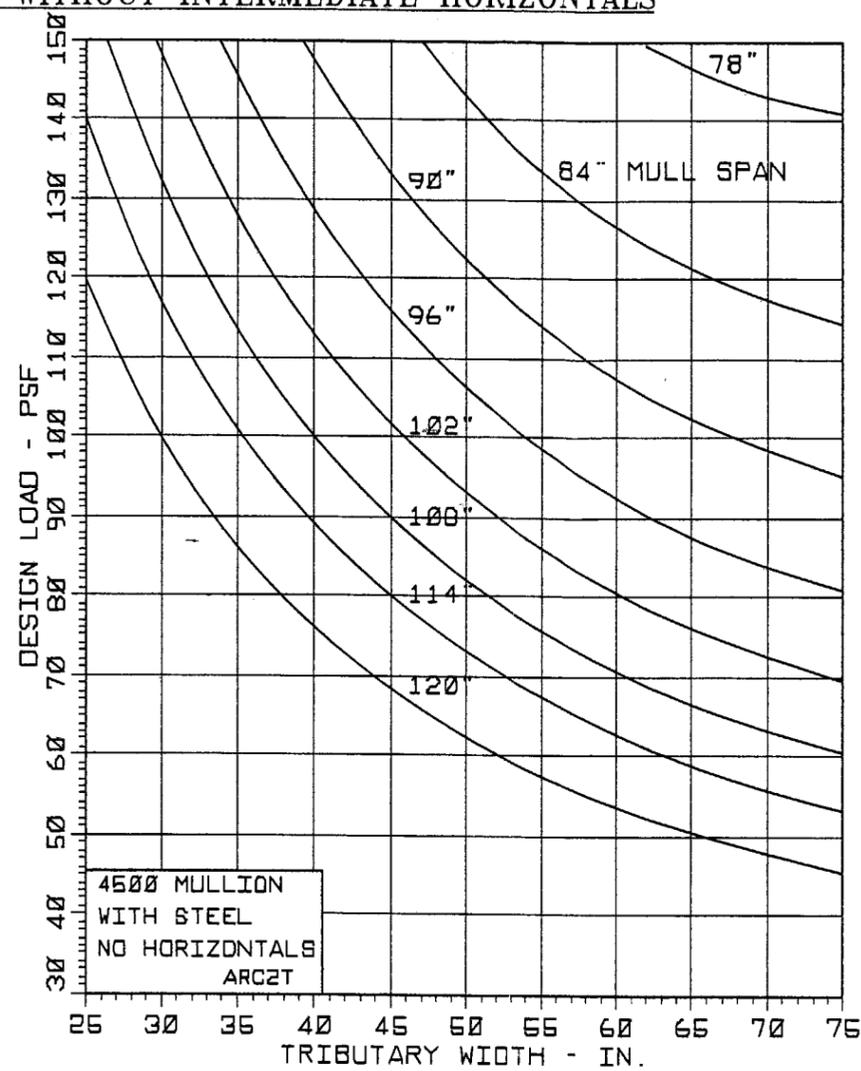
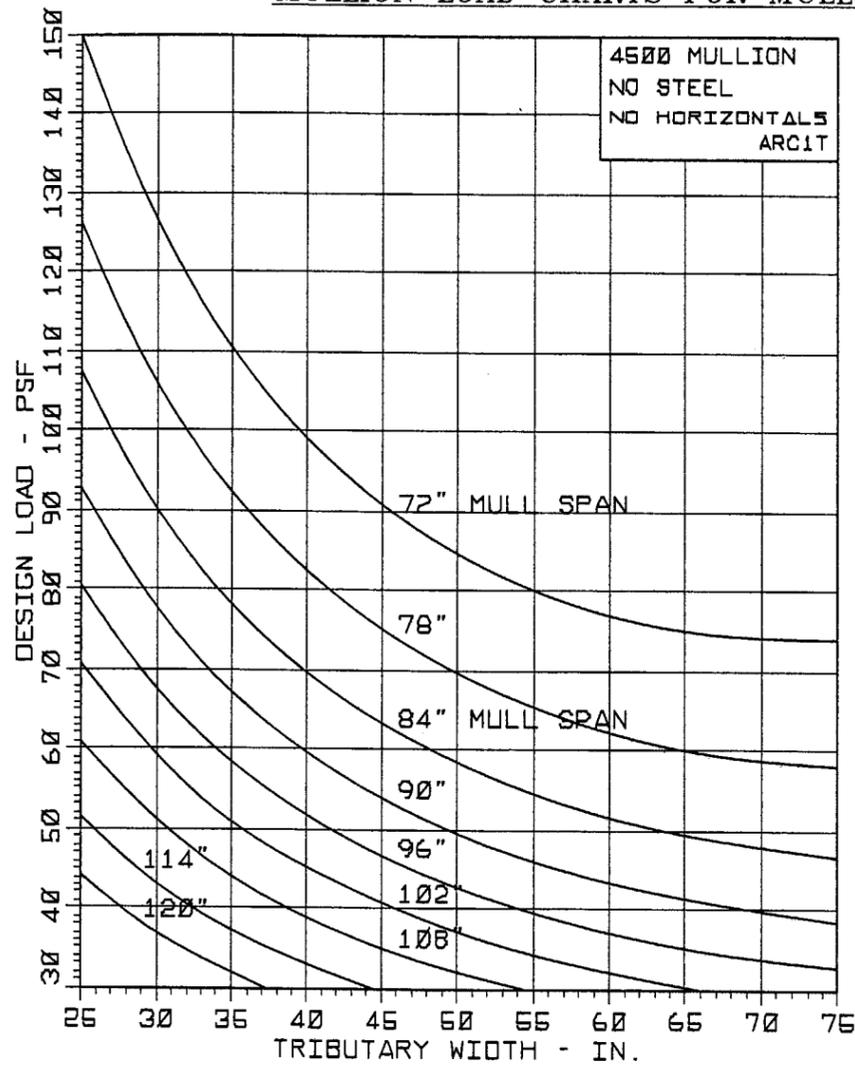
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revisions:	no	date	by	description

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drawing no. **00-13**
sheet 3 of 8

MULLION LOAD CHARTS FOR MULLS WITHOUT INTERMEDIATE HORIZONTALS



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

NOV 16 2000

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BY *Manuel Perez*
PRODUCT CONTROL DIVISION
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afc

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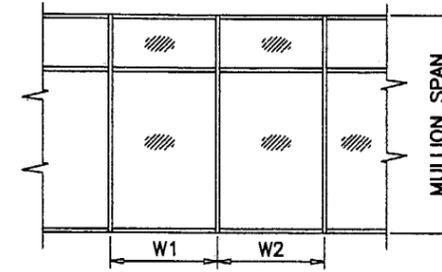
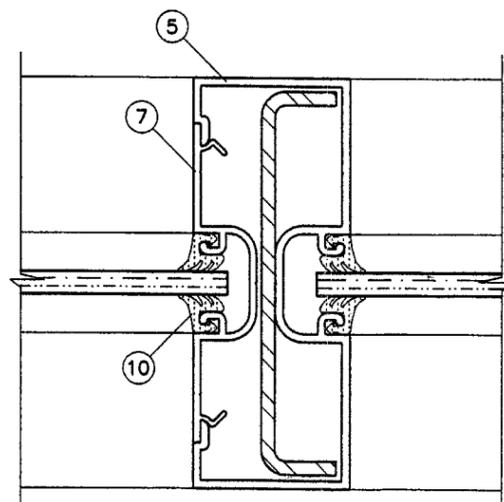
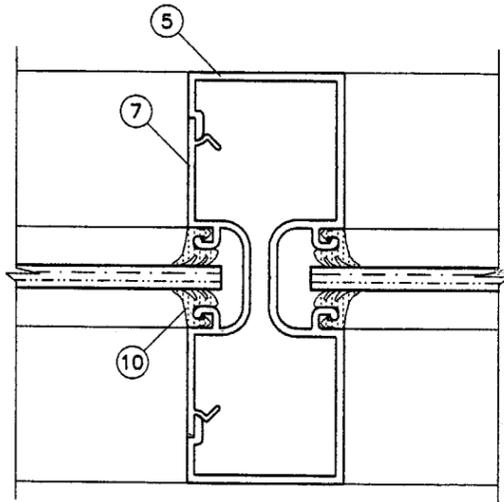
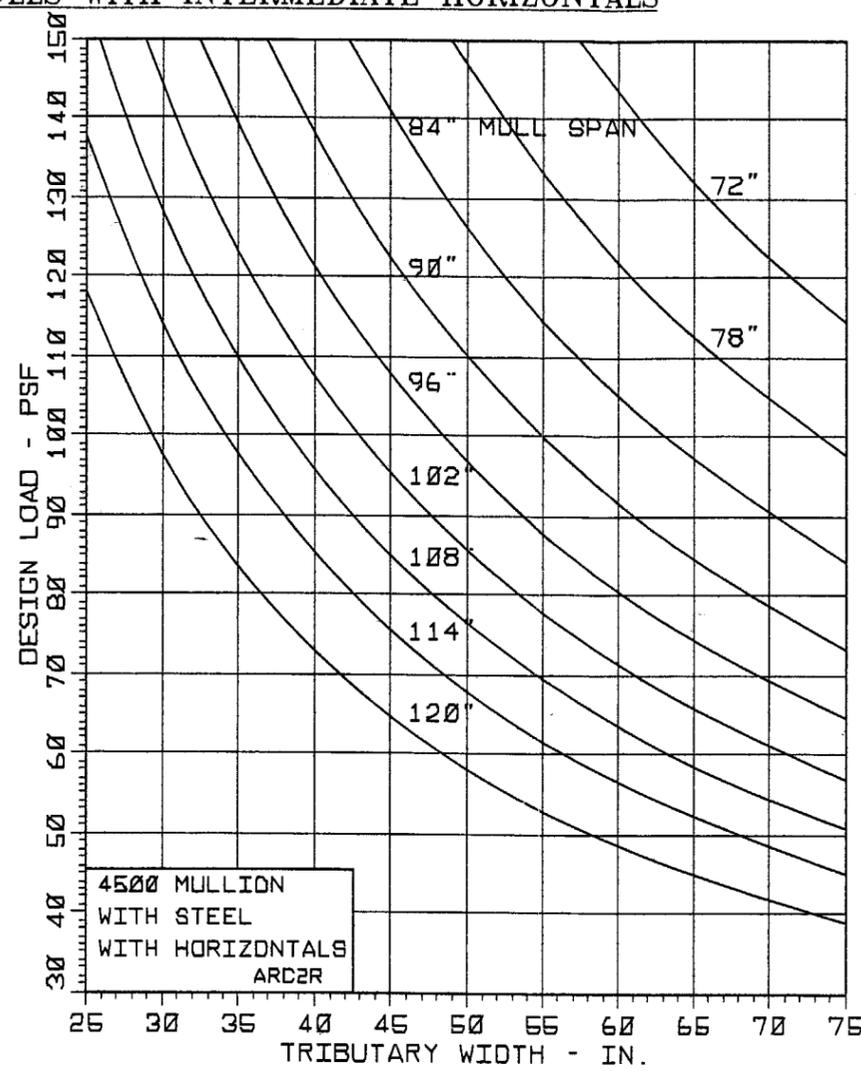
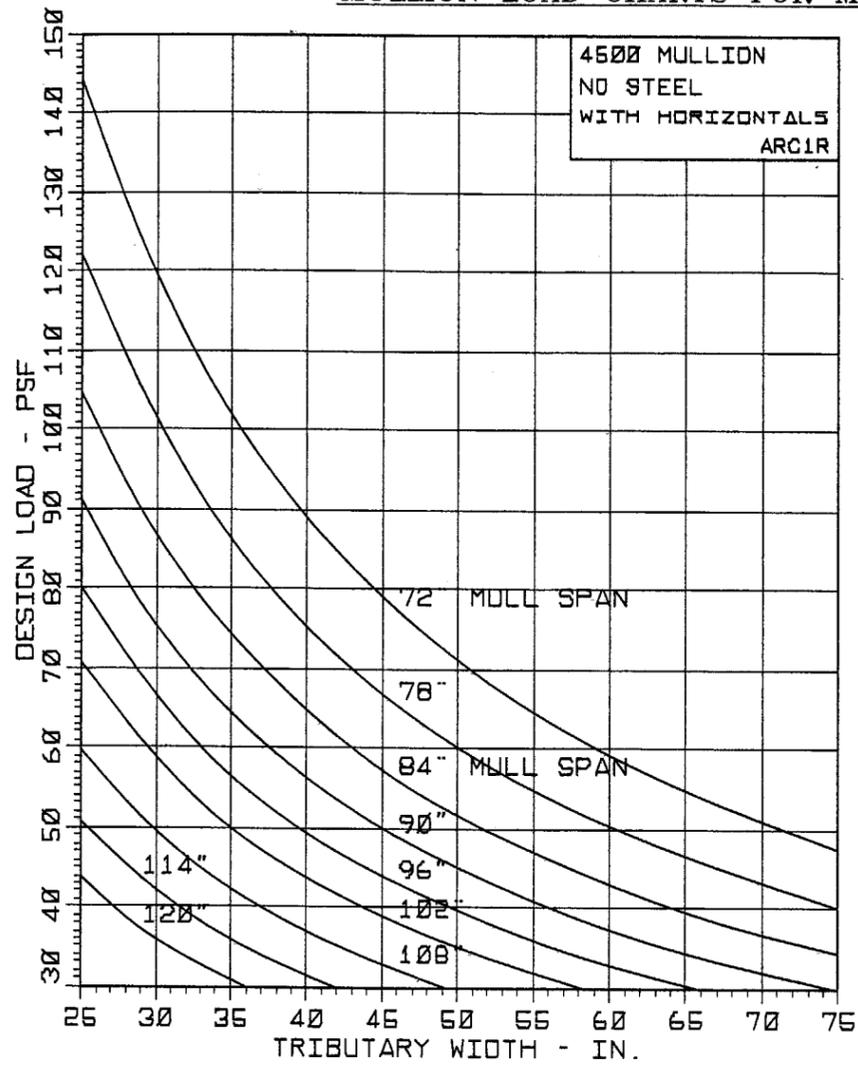
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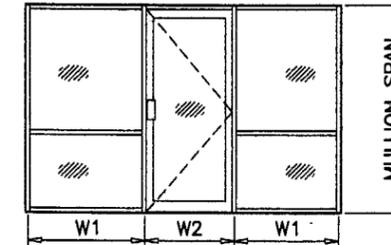
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sheet 4 of 8

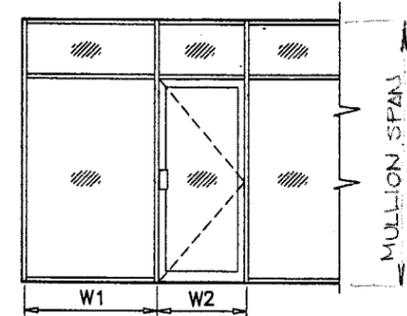
MULLION LOAD CHARTS FOR MULLS WITH INTERMEDIATE HORIZONTALS



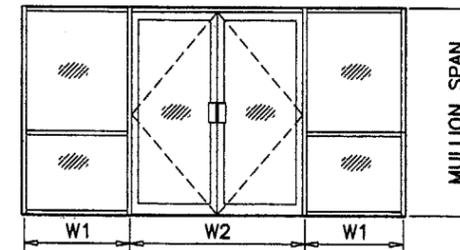
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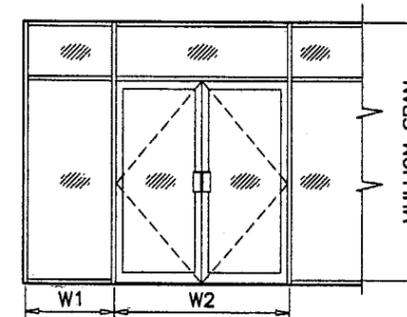
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$$\text{TRIBUTARY WIDTH} = \frac{W1 + W2}{2}$$

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

NOV 16 2000

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DATE APR 12 2001
BY *Muhammad*
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 00-1220.05

afc

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TEL. (305) 264-8100 FAX. (305) 262-6978
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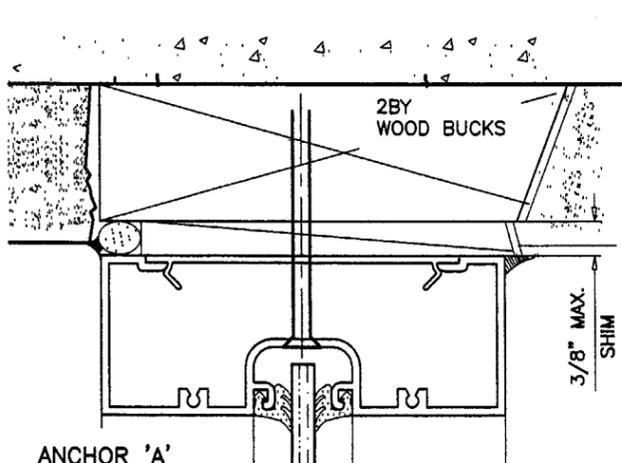
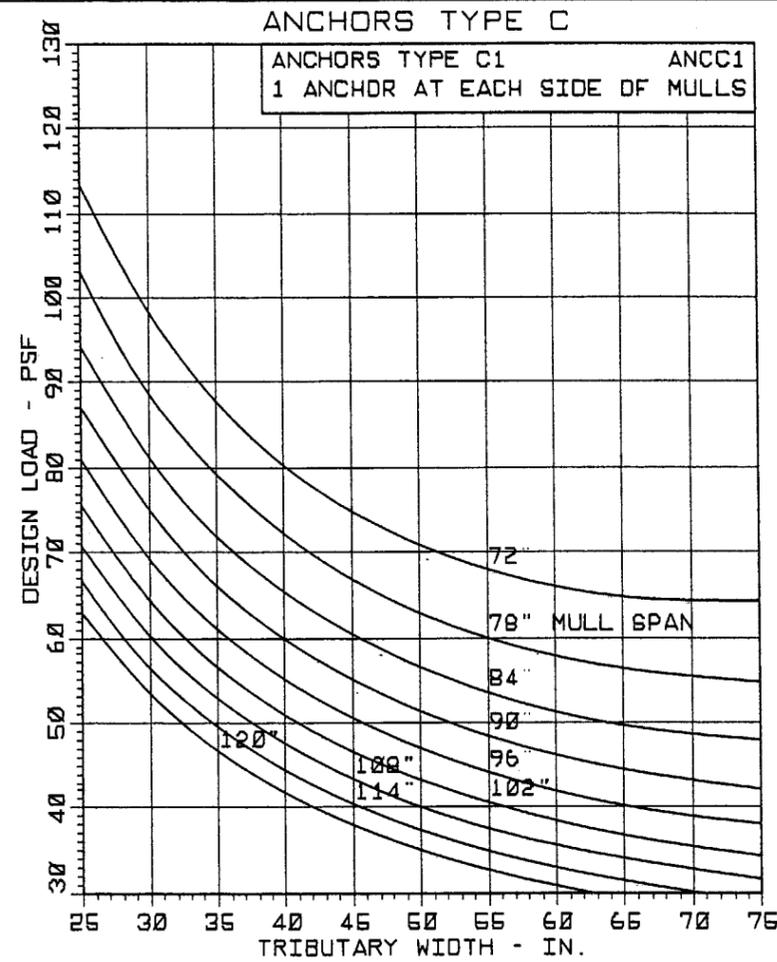
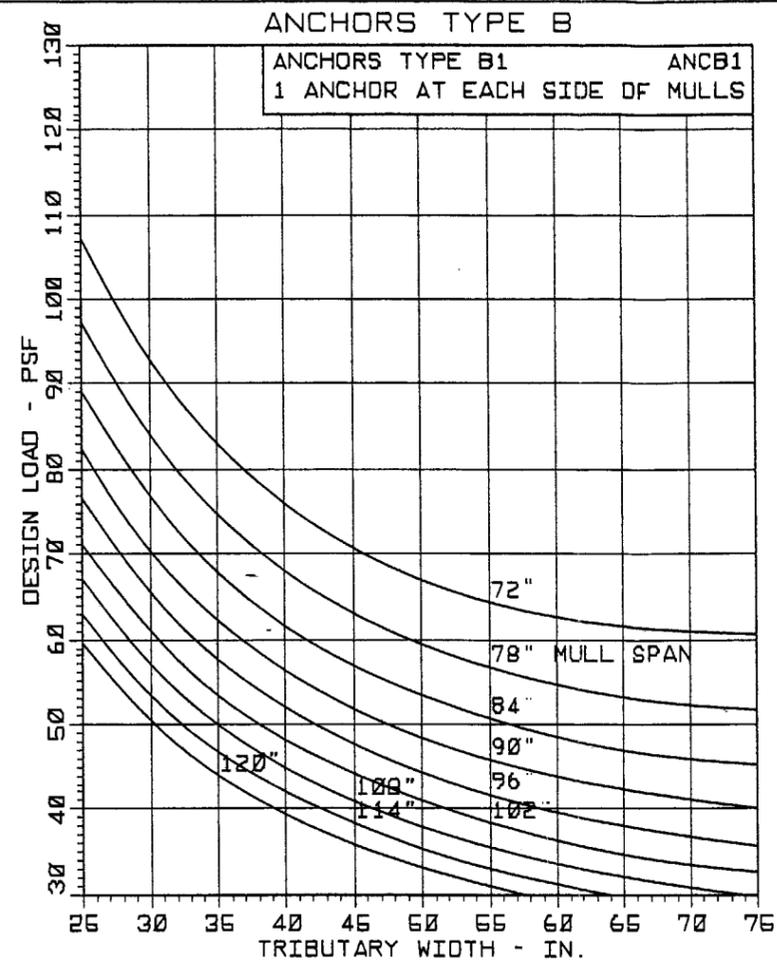
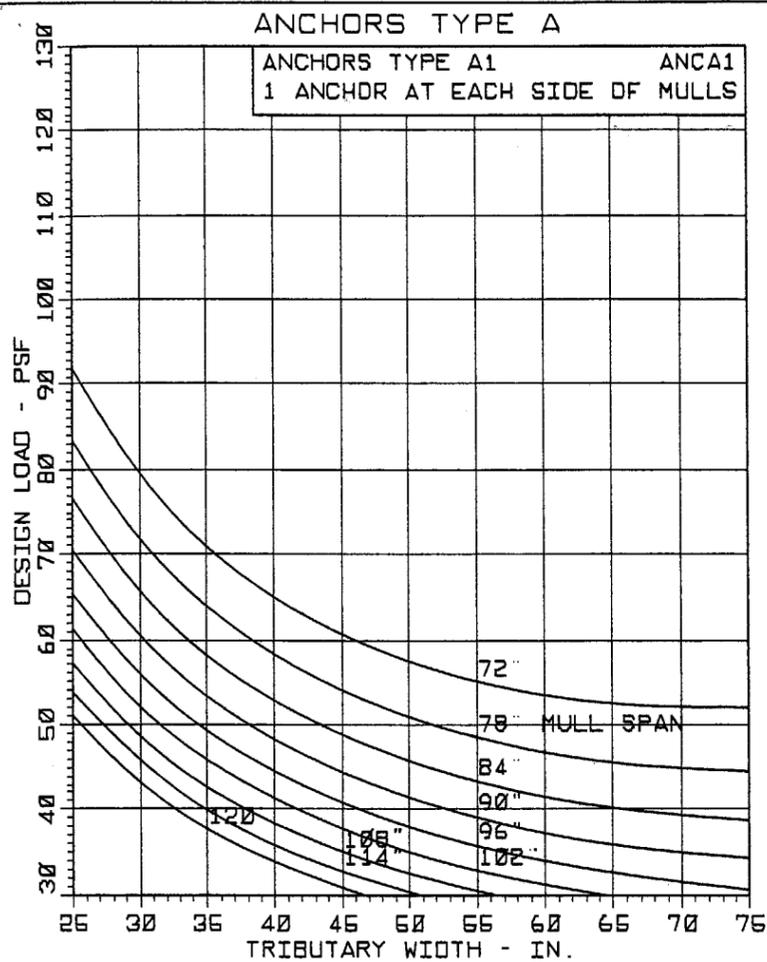
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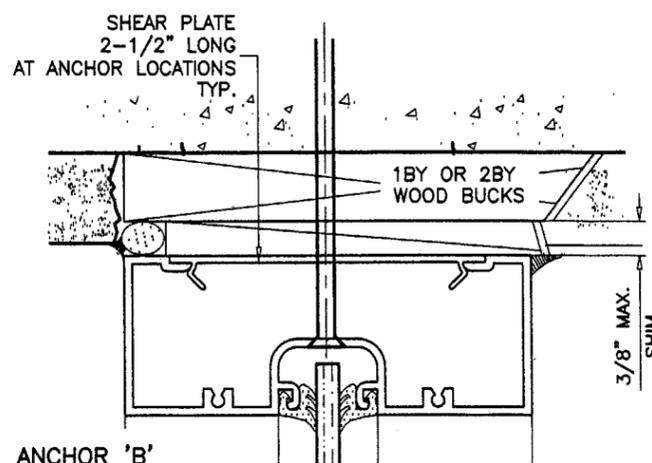
revisions:

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dr. by: HAMID
chk. by:

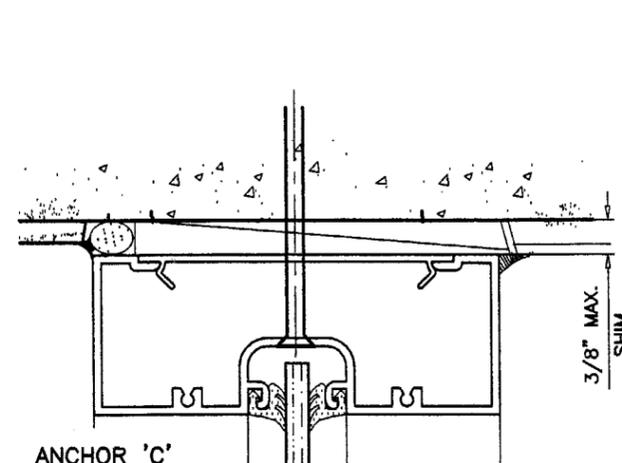
drawing no. 00-13
sheet 5 of 8



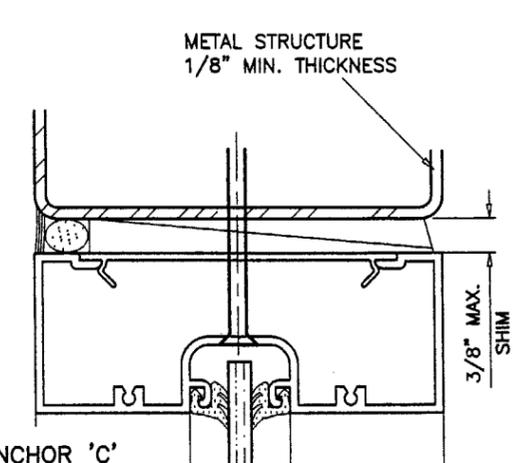
ANCHOR 'A'
INTO 2BY WOOD BUCKS OR WOOD STRUCTURE
1/4" TAPCONS (ELCO OR EQUIV.)
WITH 1-1/2" MIN. PENETRATION INTO WOOD



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

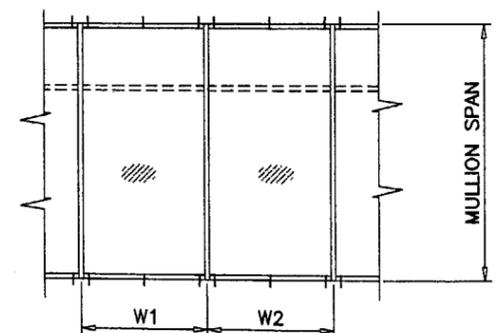


ANCHOR 'C'
DIRECTLY INTO MASONRY
1/4" TAPCONS (ELCO OR EQUIV.)
WITH 1-1/4" MIN. EMBED INTO MASONRY



ANCHOR 'C'
INTO METAL STRUCTURES
14 SMS OR 1/4" SELF DRILLING SCREWS
STEEL : Fy = 36 KSI MIN.
ALUMINUM : 6063-T5 MIN.

ABOVE GRAPHS ARE FOR ONE ANCHOR AT EACH SIDE OF MULLIONS AND A TYPICAL SPACING OF 18" O.C.



TRIBUTARY WIDTH = $\frac{W1 + W2}{2}$ (SEE DIAGRAMS ON SHEETS 4 & 5 FOR MORE OPTIONS)

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

NOV 16 2000

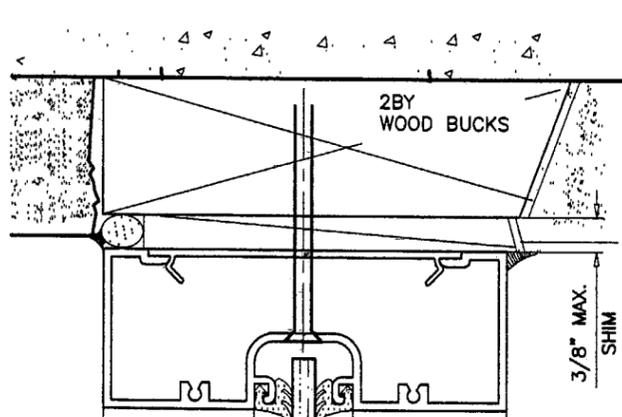
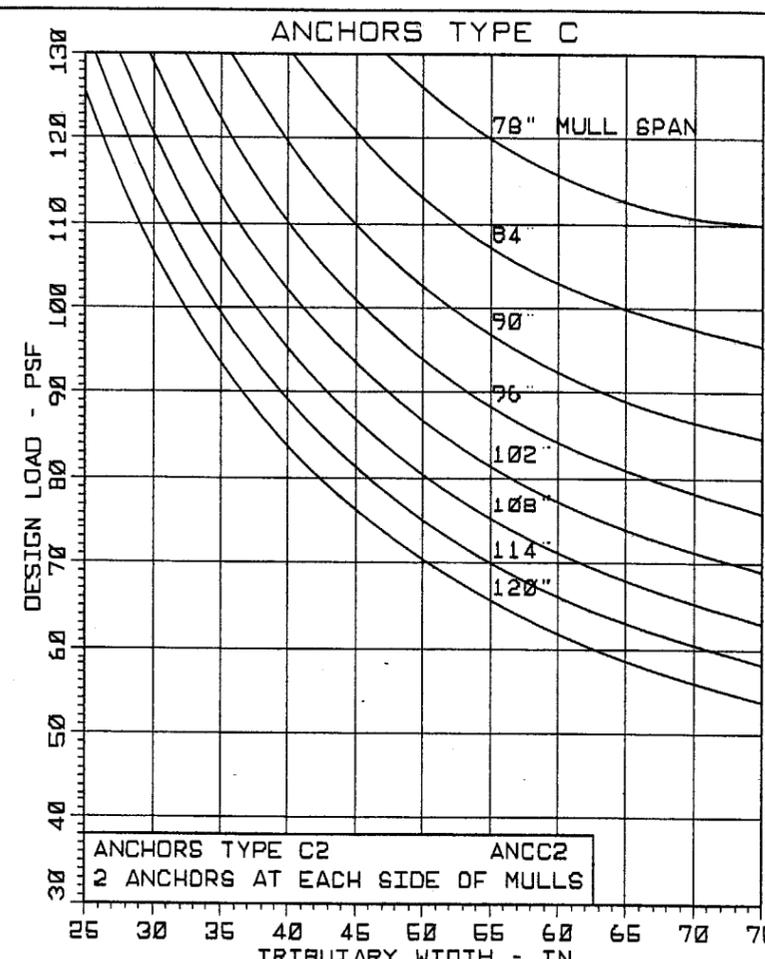
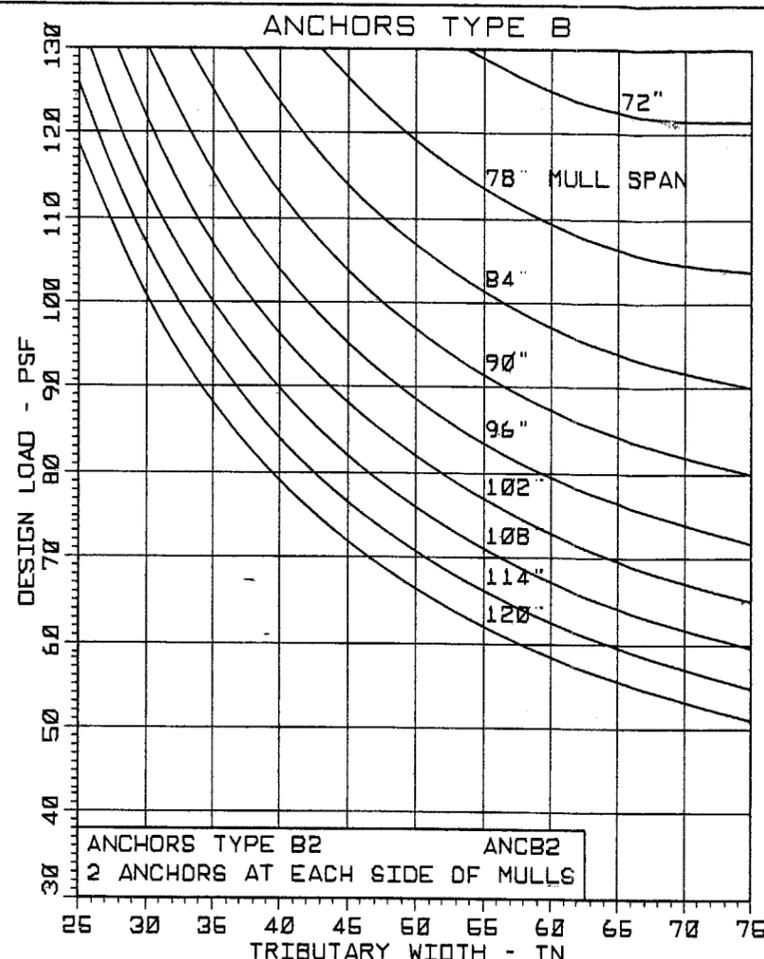
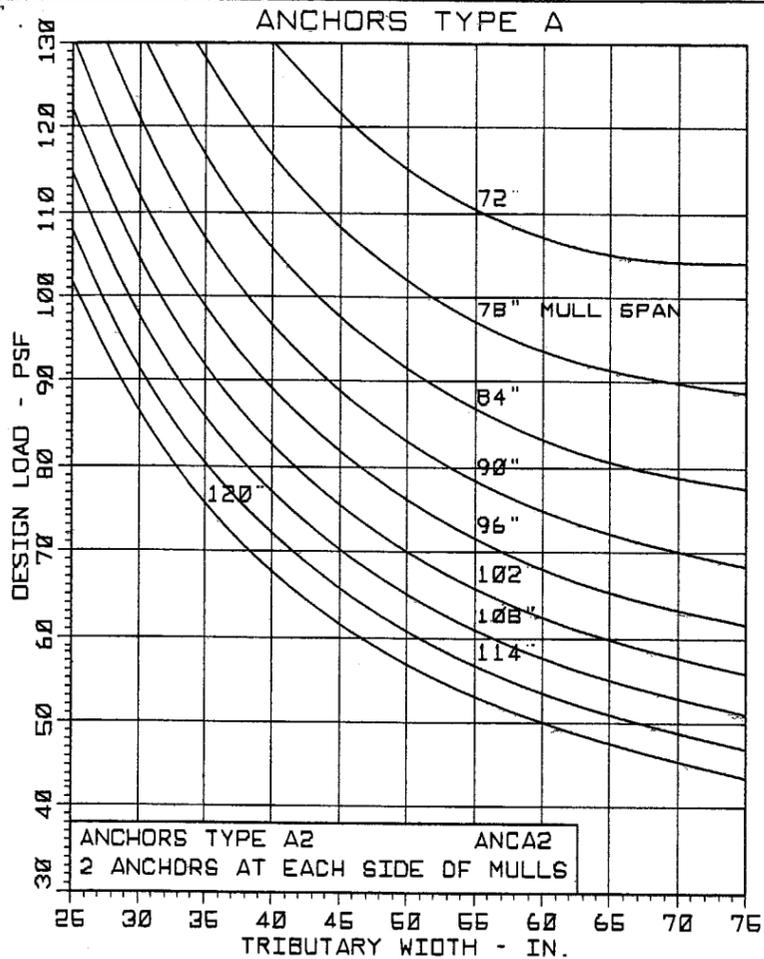
APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE APR 12 2001
BY *Manuel*
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 00-1220.05

AL-FAROOQ CORPORATION
ENGINEERS, PLANNERS & PRODUCT DESIGN
1235 SW 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
STORE 00-13A/C

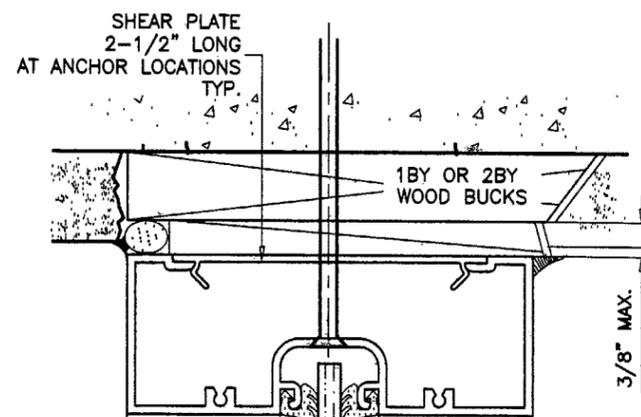
SERIES 4500 ALUM FLUSH GLAZE STOREFRONT SYS.
ARCH ALUMINUM & GLASS CO.
10200 NORTHWEST 67TH STREET
TAMARAC, FL 33321
TEL. (800) 432-8132 FAX. (954) 724-9293

no	date	by	description

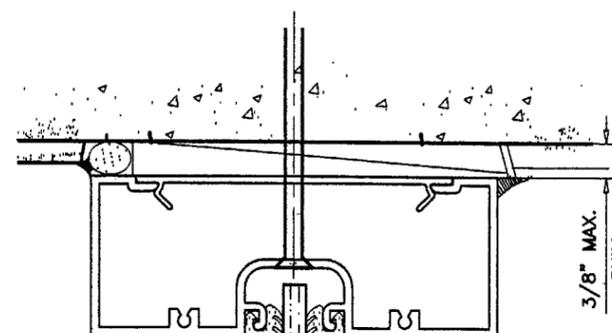
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dr. by: HAMID
chk. by:
drawing no. 00-13
sheet 6 of 8



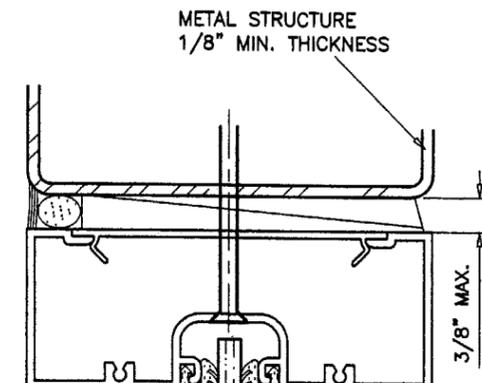
ANCHOR 'A'
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURE
 1/4" TAPCONS (ELCO OR EQUIV.)
 WITH 1-1/2" MIN. PENETRATION INTO WOOD



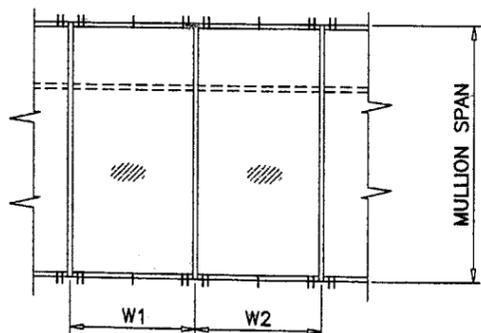
ANCHOR 'B'
 THRU WOOD BUCKS INTO MASONRY
 1/4" TAPCONS (ELCO OR EQUIV.)
 WITH 1-1/4" MIN. EMBED INTO MASONRY



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



ANCHOR 'C'
 INTO METAL STRUCTURES
 # 14 SMS OR 1/4" SELF DRILLING SCREWS
 STEEL : Fy = 36 KSI MIN.
 ALUMINUM : 6063-T5 MIN.



ABOVE GRAPHS ARE FOR TWO ANCHORS AT EACH SIDE OF MULLIONS AND A TYPICAL SPACING OF 18" O.C.

TRIBUTARY WIDTH = $\frac{W1 + W2}{2}$ (SEE DIAGRAMS ON SHEETS 4 & 5 FOR MORE OPTIONS)

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

NOV 16 2000

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 BY *Maunel*
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 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 00-1220.05

afc

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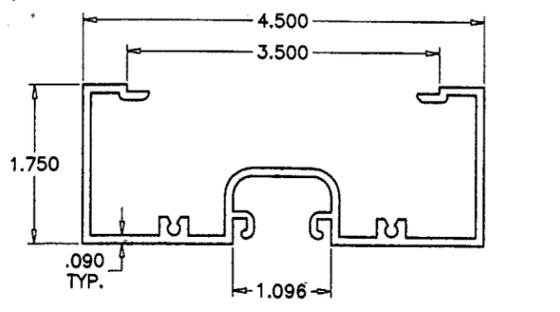
no.	date	by	description

date: 07-06-00
 scale: 1/2" = 1"
 dr. by: HAMID
 chk. by:

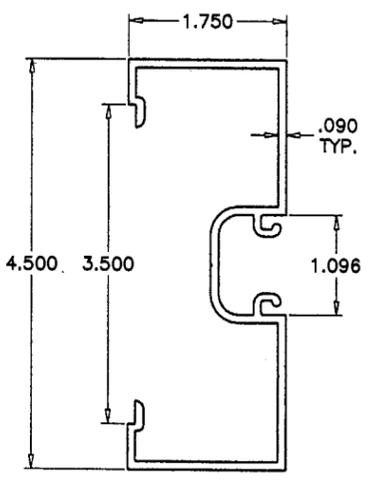
drawing no.
00-13

sheet 7 of 8

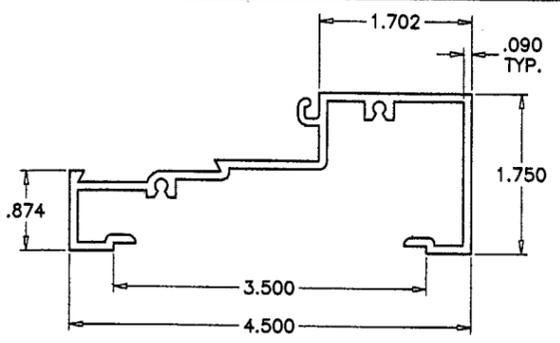
STORE 00-13AAC



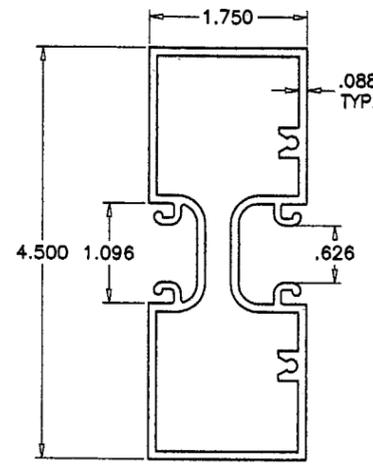
FRAME HEAD/MULLION



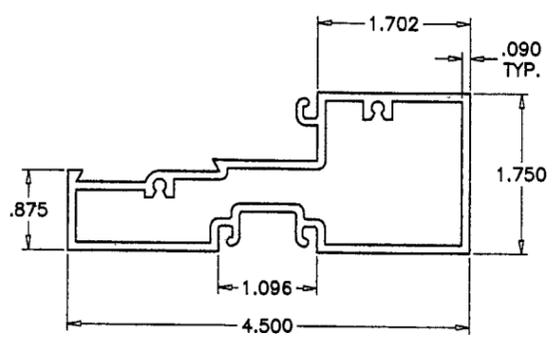
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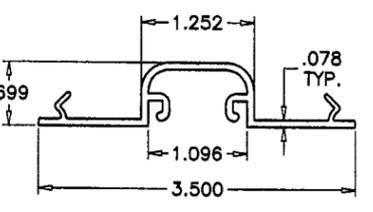
FRAME HORIZONTAL/SILL



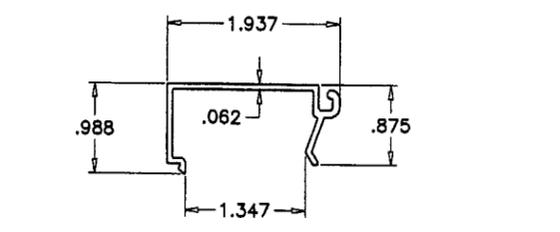
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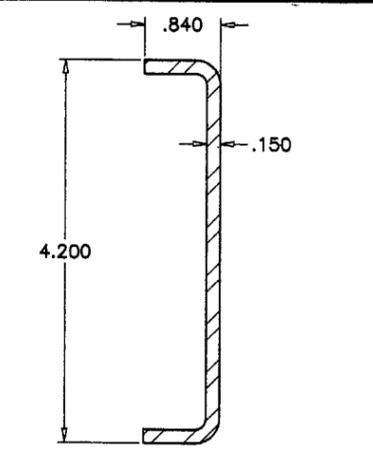
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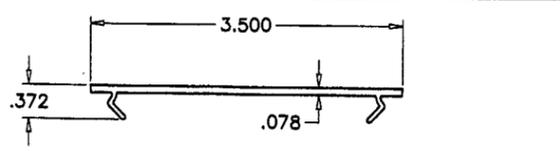
POCKET FILLER



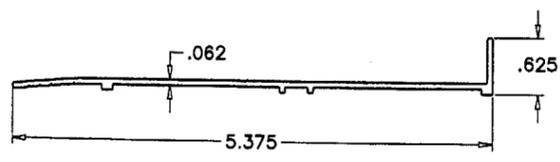
GLAZING STOP



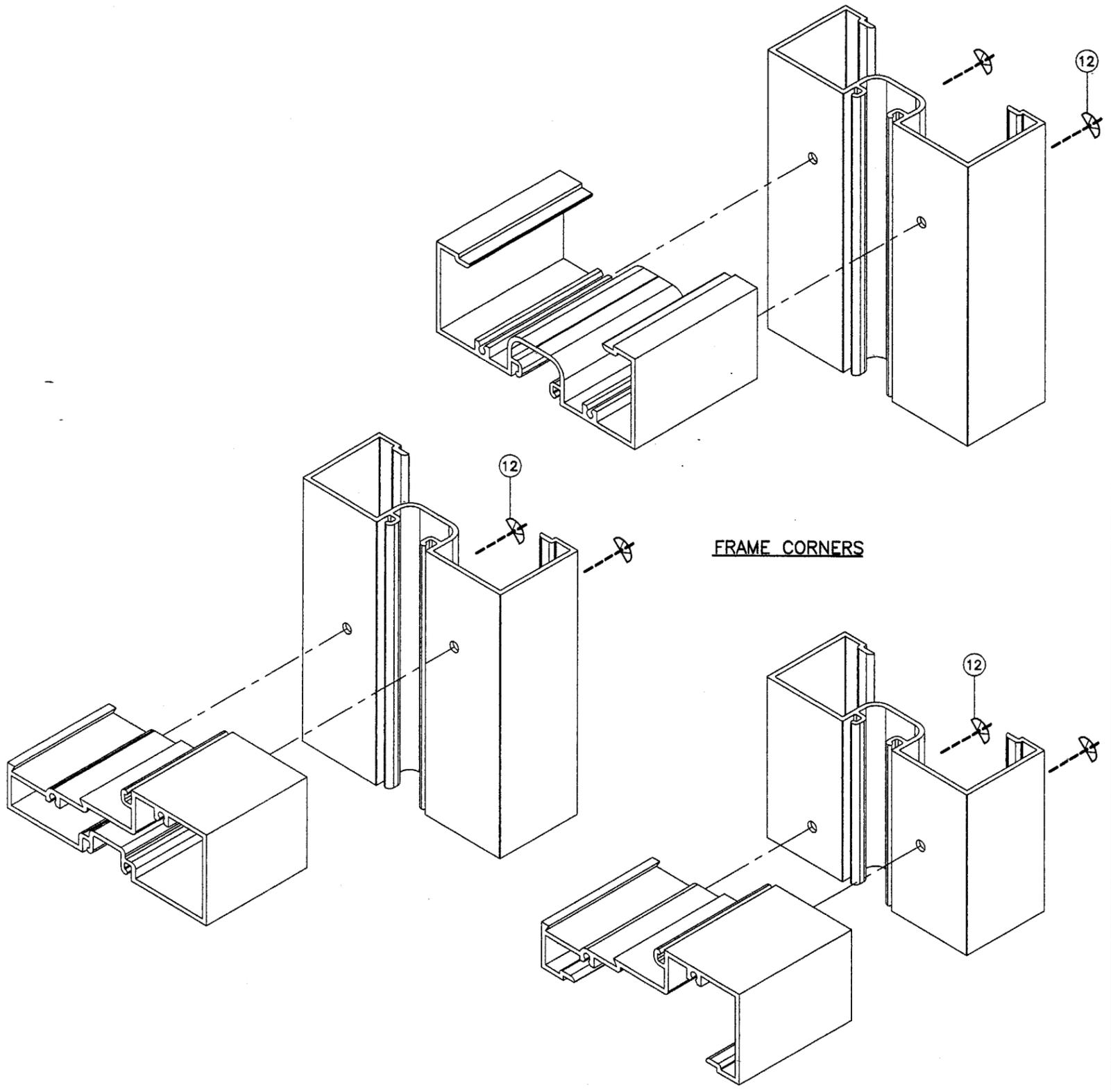
STEEL REINFORCING
36 KSI MIN.



SNAP IN COVER



SILL FLASHING (OPTIONAL)



FRAME CORNERS

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

Nov 16 2000

APPROVED AS COMPLYING WITH THE
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revisions:	no	date	by	description

date: 07-06-00
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drawing no.
00-13
sheet 8 of 8