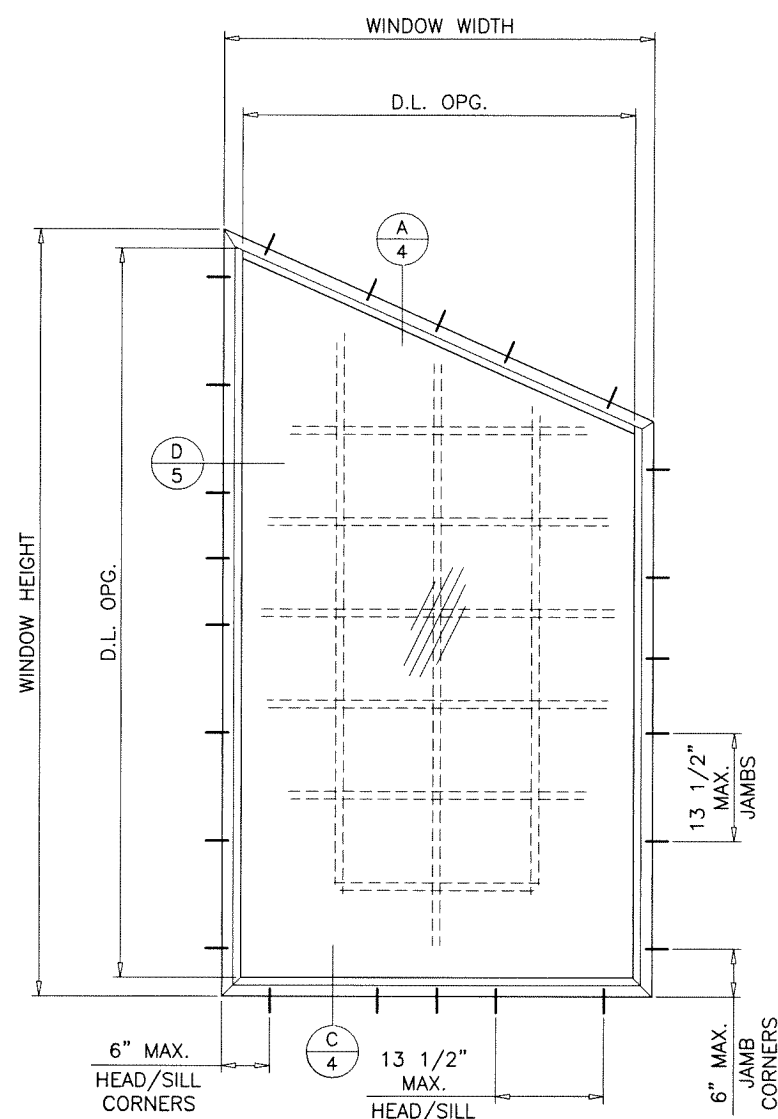
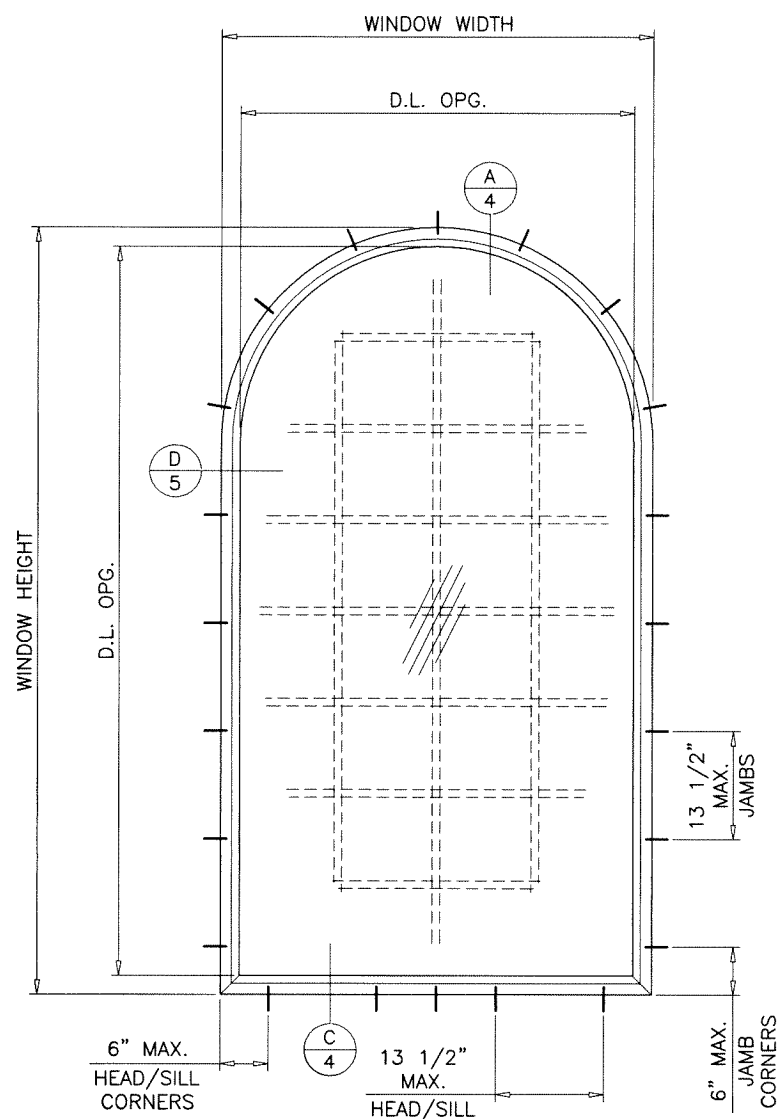
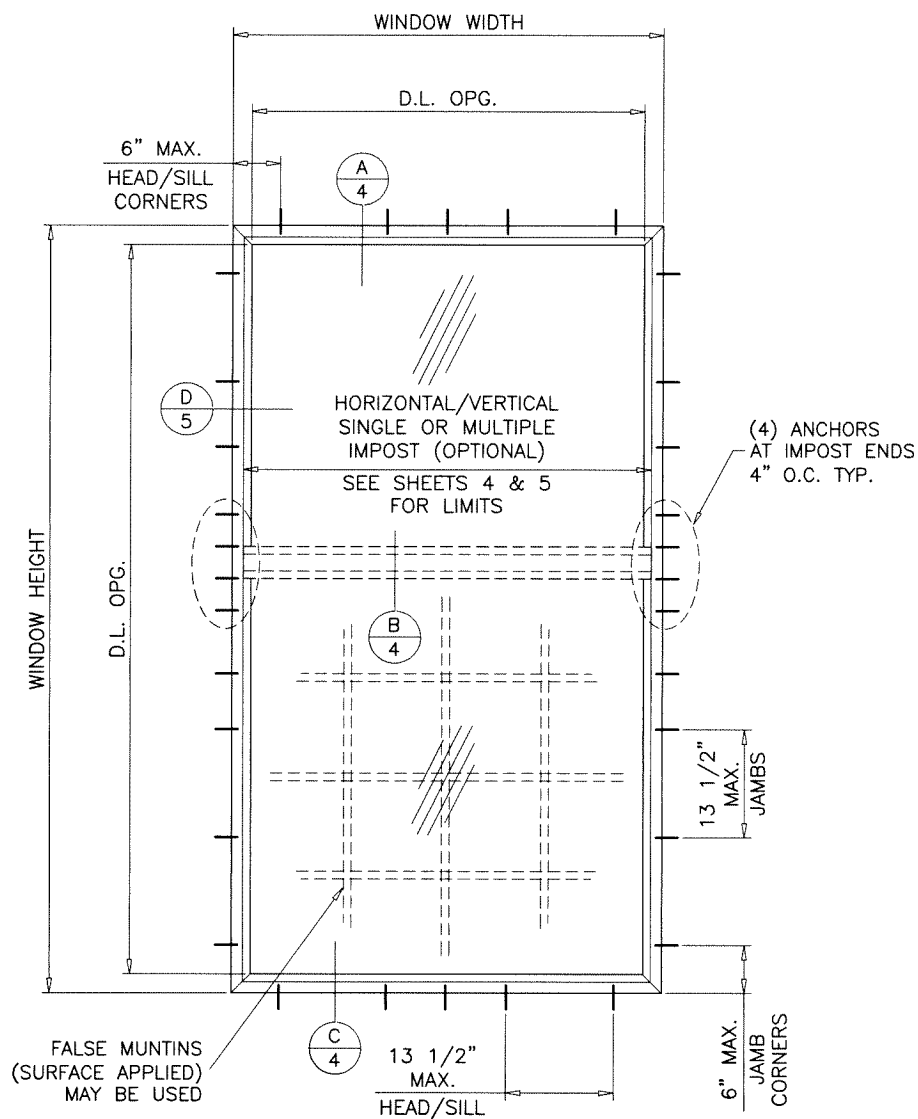




TYPICAL ELEVATIONS
(TESTED UNITS)

DAYLITE OPENINGS:

D.L.O. HEIGHT = WINDOW HEIGHT - 4.750"
D.L.O. WIDTH = WINDOW WIDTH - 4.750"

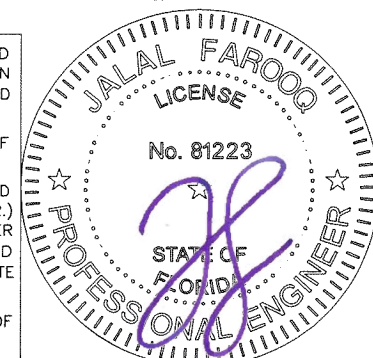
WINDOWS COMPLY WITH REQUIREMENTS OF ANSI Z97.1.

THESE WINDOWS ARE RATED FOR SMALL MISSILE IMPACT.
F.B.C. APPROVED IMPACT RESISTANT SHUTTERS
REQUIRED FOR INSTALLATIONS UP TO 30 FT. OF GRADE.
SHUTTERS NOT REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.

Sealed: 10/23/2023

FL #40676.2

- A- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.
- B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- C- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.
- D- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



SERIES MG-450
ALUMINUM FIXED WINDOW (S.M.I.)

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEET 3.

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF FIX./FIX. OR FIXED WITH OTHER WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING F.B.C. APPROVED MULLIONS IN BETWEEN.

LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION APPROVAL WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2020 (7TH EDITION)/2023 (8TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2020/2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC. CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

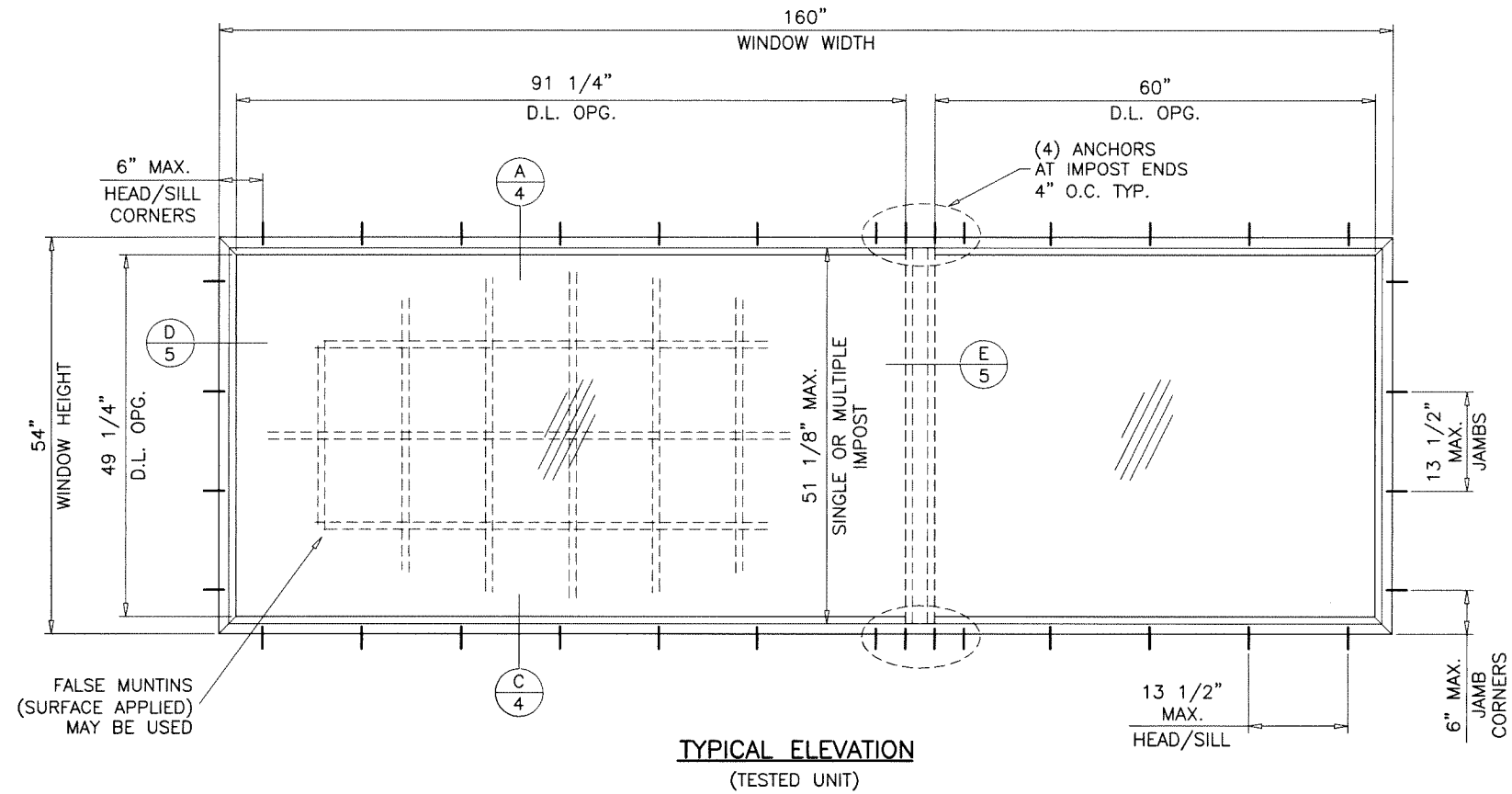
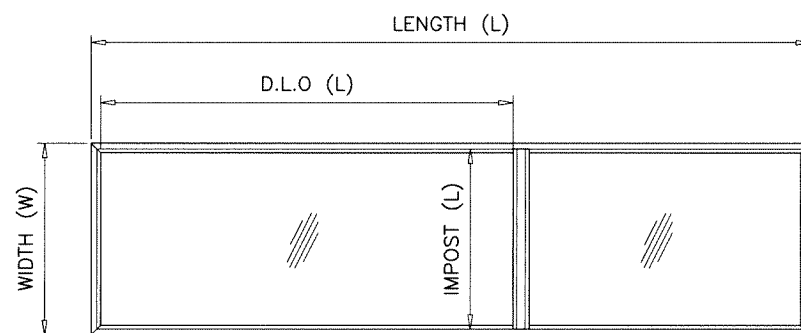
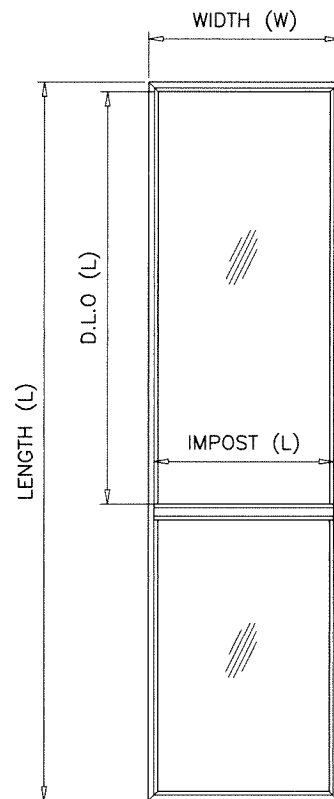
MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE. LABELING TO COMPLY WITH SECTION 1709.9.2.

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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100
WWW.AFCENG.COM
FBPE #3538
COMP-ANL\22-01F-MG

MG-450 ALUMINUM FIXED WDW. (S.M.I.)

MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL. 33166
Tel. (305) 764-3963
www.mrglasswindows.com

revisions:		no	date	by	description
		A	07.18.23		UPDATED TO 2023 FBC
date:	01-06-22	scale:	1/2"=1'-0"	dr. by:	TARIQ
		chk. by:			
drawing no.	22-01F				
sheet	1 of 8				



DESIGN LOAD CAPACITY - PSF FOR WINDOWS SHOWN ON THIS SHEET ONLY						
MAX. FRAME DIMS.					9/16\" LAM. GLASS	
WIDTH (W)	LENGTH (L)	D.L.O. (L)	IMPOST (L)	IMPOST REINF.	EXT.(+)	1NT.(-)
48"	180"	103-1/4"	45-1/8"	W/O TUBE	80.0	80.0
51"	169-3/8"	96-7/8"	48-1/8"		76.7	76.7
54"	160"	91-1/4"	51-1/8"		60.2	60.2
48"	180"	103-1/4"	45-1/8"	WITH TUBE	80.0	80.0
51"	169-3/8"	96-7/8"	48-1/8"		80.0	80.0
54"	160"	91-1/4"	51-1/8"		80.0	80.0

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revisions:

no	date	by	description

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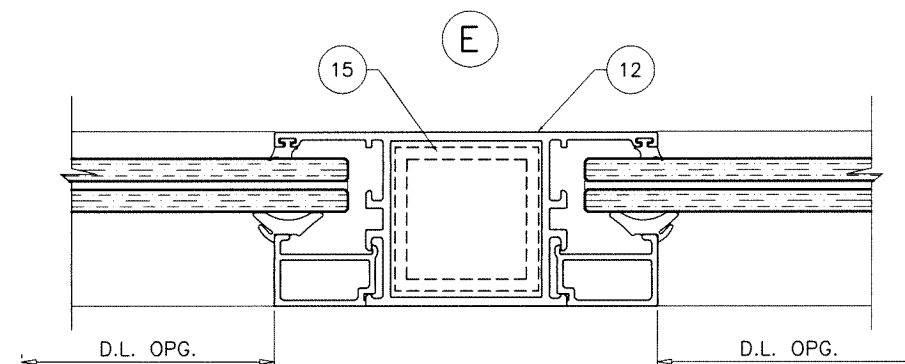
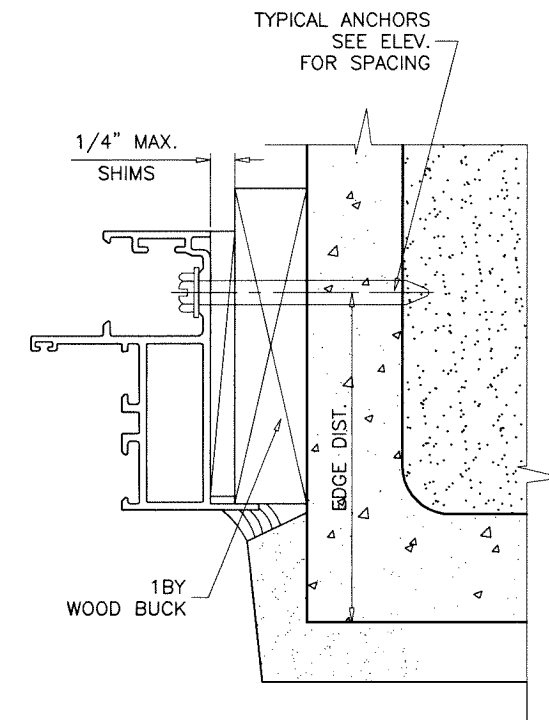
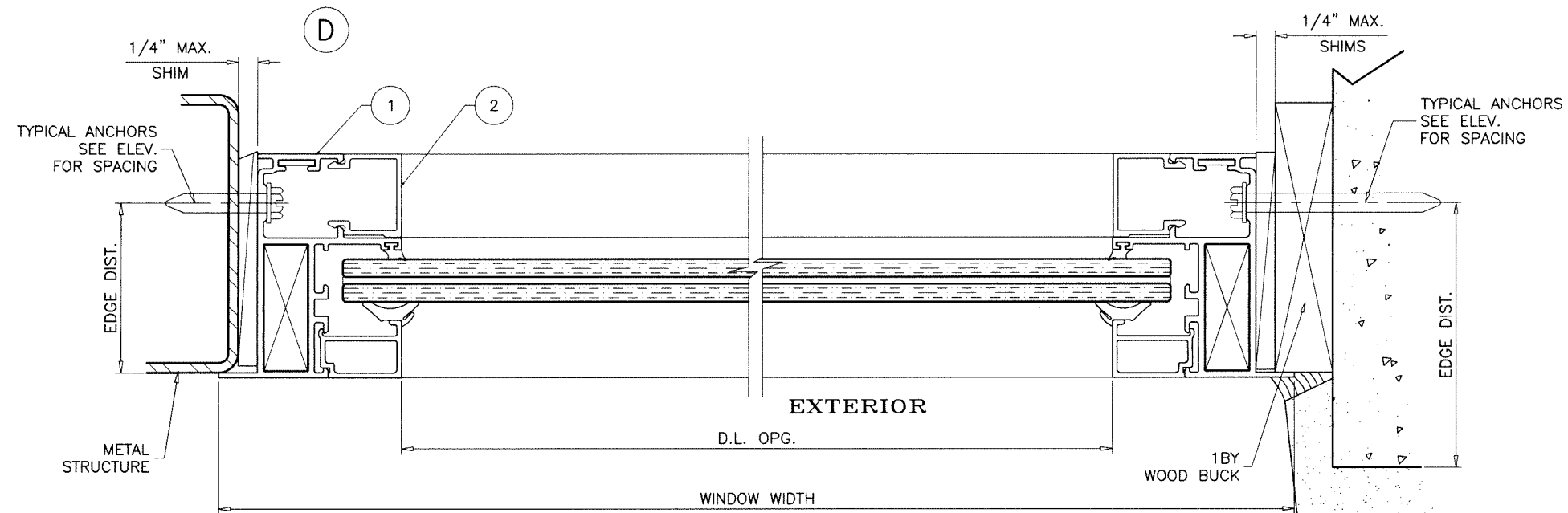
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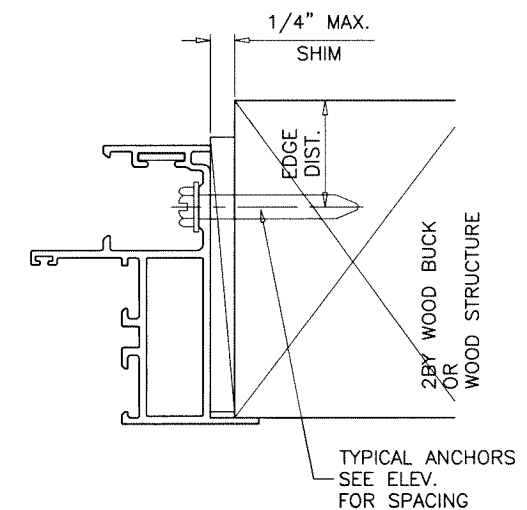
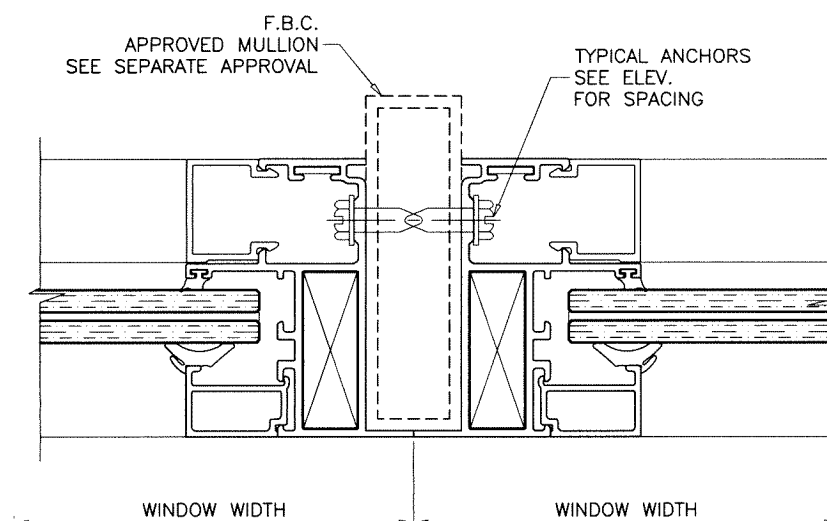
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drawing no.
22-01F

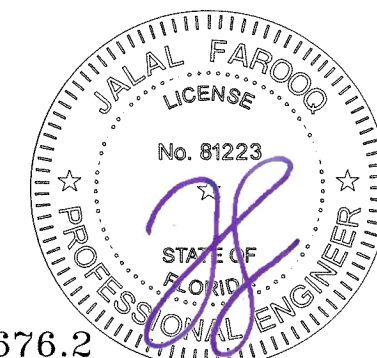
sheet **2** of **8**



LIMIT MAX. DESIGN LOADS FOR WINDOWS WITH IMPOST AS FOLLOWS		
MAX. LENGTH	REINF.	LOADS — PSF
45-1/8"	W/O TUBE	80.0
48-1/8"		76.7
51-1/8"		60.2
51-1/8"	WITH TUBE	80.0



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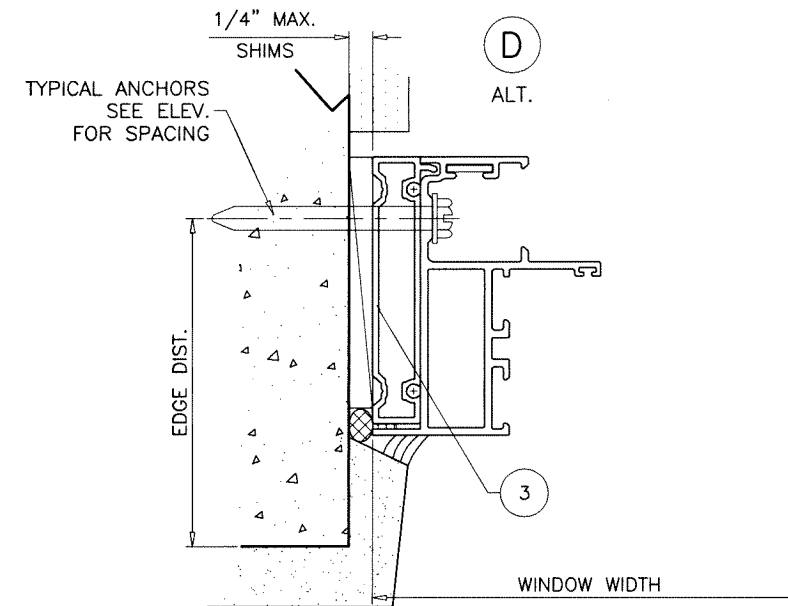
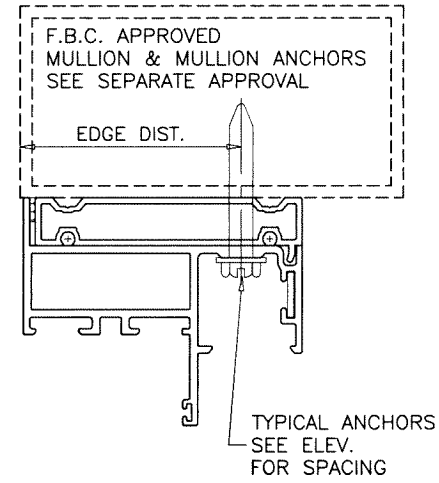
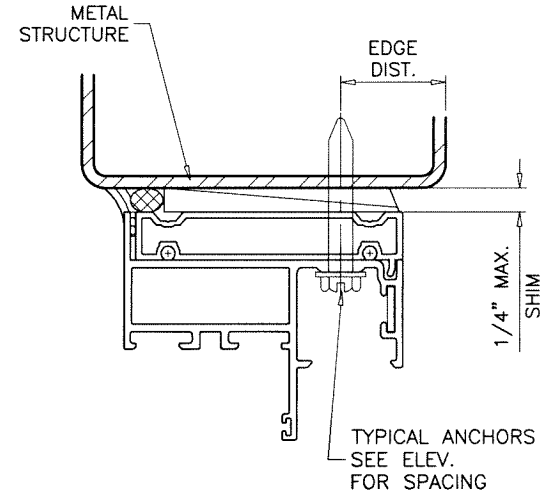
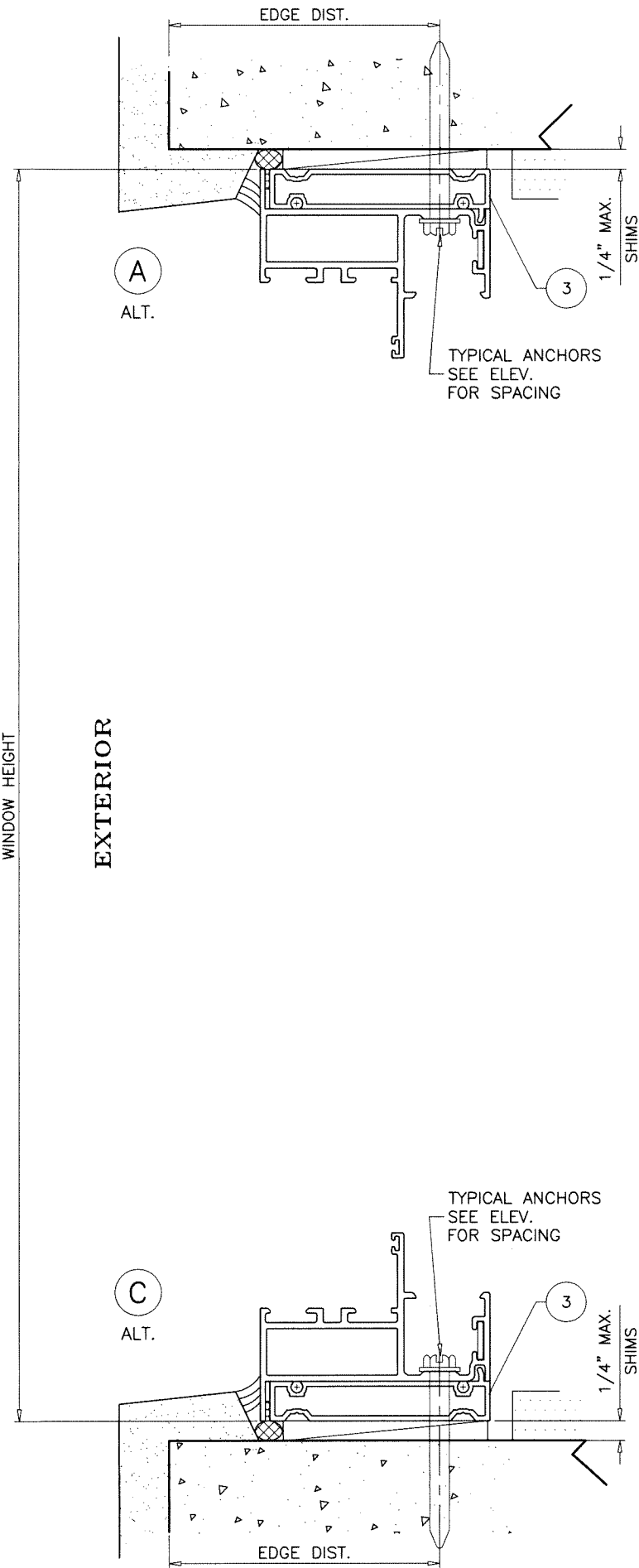
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scale: 1/2" = 1"		no date by description	
dr. by: TARIQ		_____	
chk. by:		_____	

drawing no. 22-01F

sheet 5 of 8

WINDOW HEIGHT

EXTERIOR



INSTALLATION DETAILS WITH FLUSH FRAME ADAPTERS

SEE SHEETS 4 & 5 FOR WINDOW DETAILS

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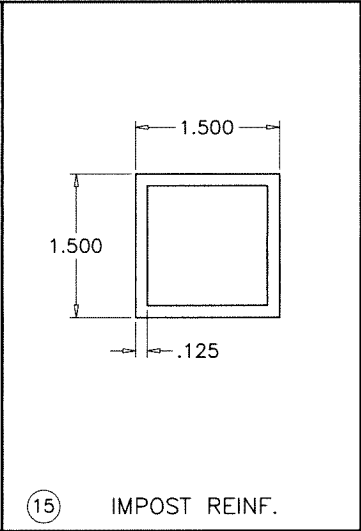
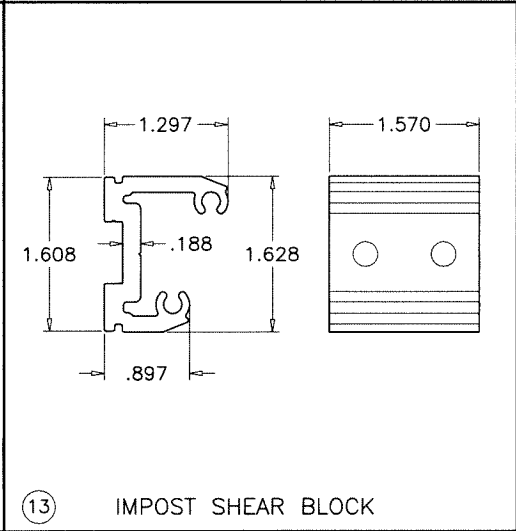
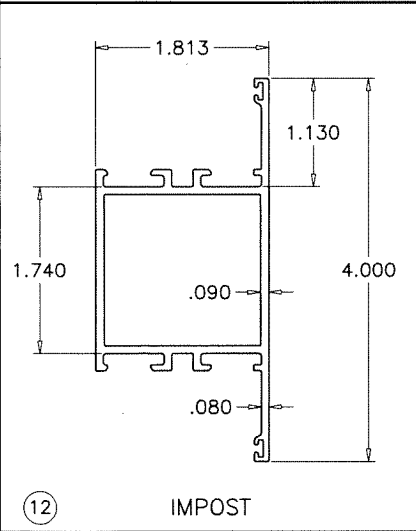
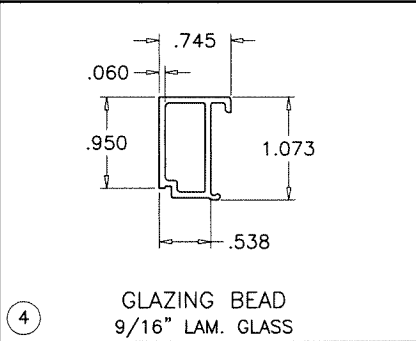
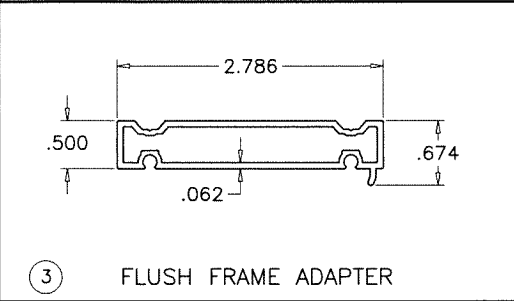
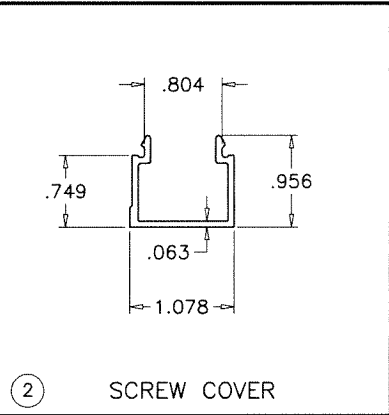
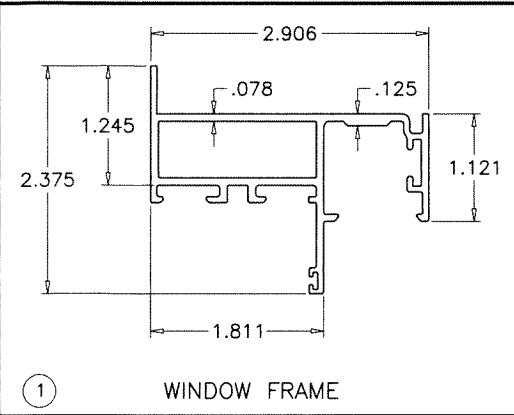
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dr. by: TARIQ		by	description
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drawing no.			
22-01F			
sheet 6 of 8			



ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E-451	4	WINDOW FRAME	6063-T6	-
2	E-452	4	SCREW COVER	6063-T5	-
3	E-212	4	FLUSH FRAME ADAPTER	6063-T6	-
4	E-9004	4	GLAZING BEAD (9/16" LAM. GLASS)	6063-T6	-
5	G30-01	AS REQD.	INTERIOR GLAZING GASKET	SANTOPRENE	-
6	G10-04	AS REQD.	EXTERIOR GLAZING GASKET	EPDM	-
7	G25-08	AS REQD.	SETTING BLOCKS AT 1/4 POINTS	EPDM	DUROMETER 80±5 SHORE A
8	1/4-20 X 9/16"	AS REQD.	FRAME ASSEMBLY FASTENERS	ST/ST	SOCKET HEAD MS
9	#10 X 1"	AS REQD.	ADAPTER ASSEMBLY FASTENERS	ST/ST	F.H. SMS
10	A45-01	1/ CORNER	FIXED CORNER KEY	6063-T5	-
10A	A45-01	1/ CORNER	ADJUSTABLE CORNER KEY	6063-T5	-
11	A45-11	1/ CORNER	FIXED ALIGNMENT KEY	ST. STEEL	-
11A	A45-12	1/ CORNER	ADJUSTABLE ALIGNMENT KEY	6063-T5	-
12	E-3012	AS REQD.	IMPOST	6063-T6	-
13	A30-02	AS REQD.	IMPOST SHEAR BLOCK	6063-T6	-
14	G2-01	2	DRAIN VALVE	PLASTIC	-
15	-	AS REQD.	TUBE REINF. AT IMPOST	6063-T6	-
16	-	-	-	-	-

SEALANT:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH SILICONE.



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sheet 7 of 8

