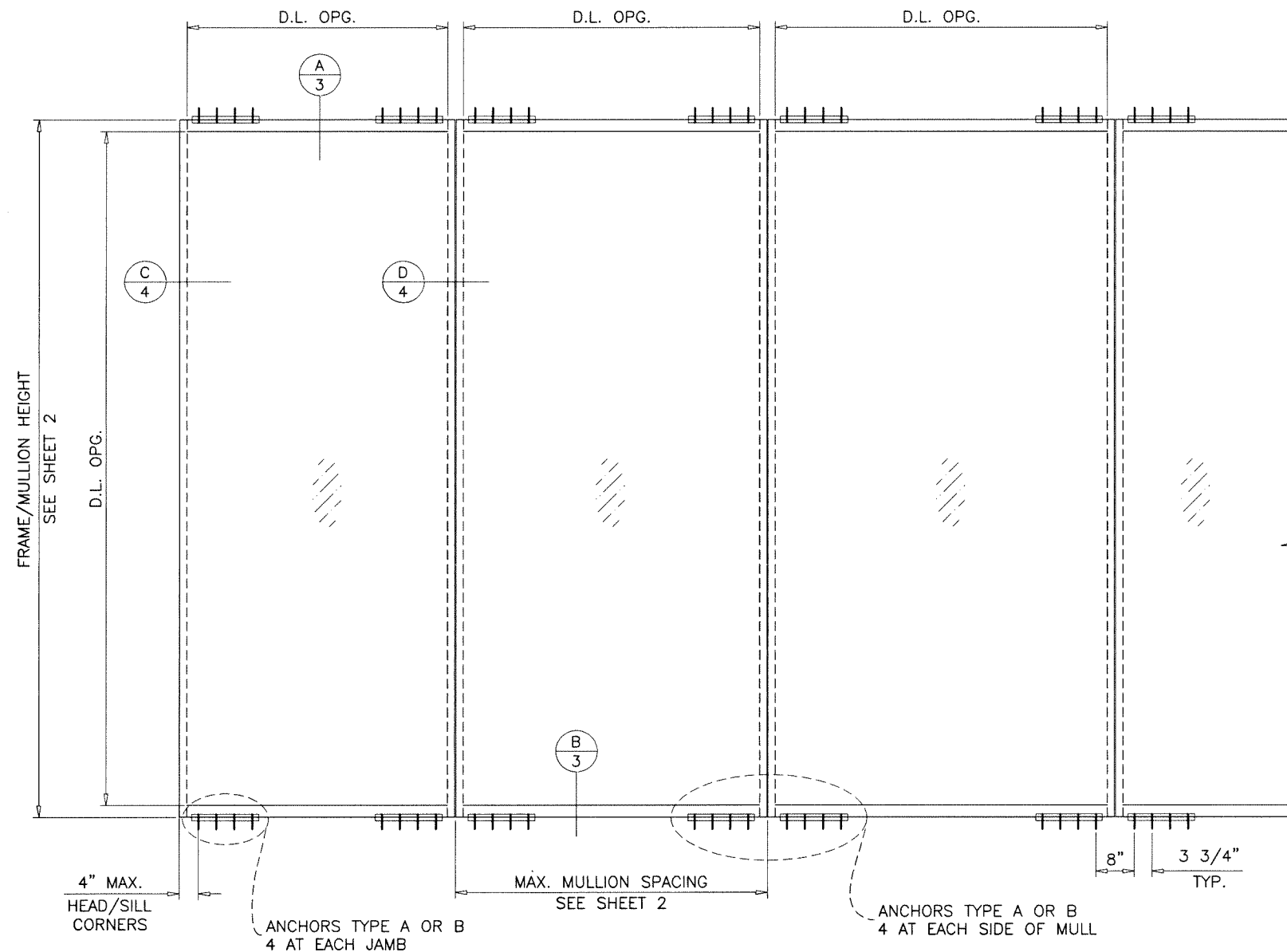
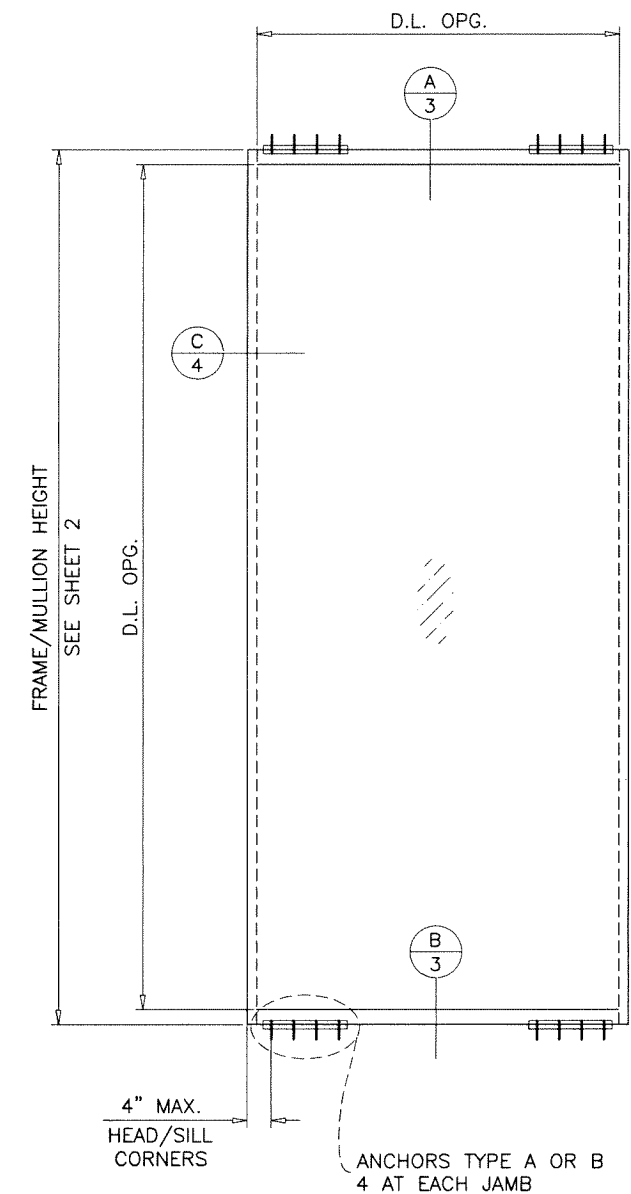




TYPICAL ELEVATIONS



SINGLE 'O' PANEL:

FRAME WIDTH = D.L.O. WIDTH + 3.125"
FRAME HEIGHT = D.L.O. HEIGHT + 5.00"

THIS SYSTEM IS RATED FOR LARGE & SMALL MISSILE IMPACT.
SHUTTERS ARE NOT REQUIRED.

PRODUCT COMPLIES WITH REQUIREMENTS OF ANSI Z97.1.

Sealed: 10/4/2023

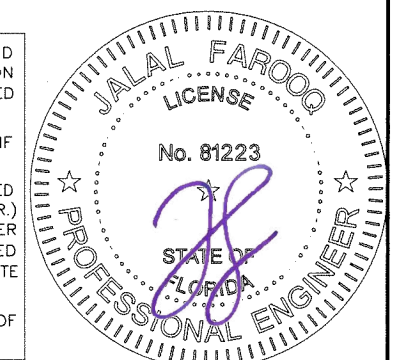
FL #21875

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.



ES-WW8832

ALUMINUM WINDOW WALL 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).

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.

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)'.

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978

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ES-WW8832 ALUM WINDOW WALL SYSTEM (L.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:	no	date	description
	A	08.11.20	UPDATED TO 2020 FBC
	B	09.26.23	UPDATED TO 2023 FBC

date: 02-06-17

scale: 3/8"=1'-0"

dr. by: TARIQ

chk. by:

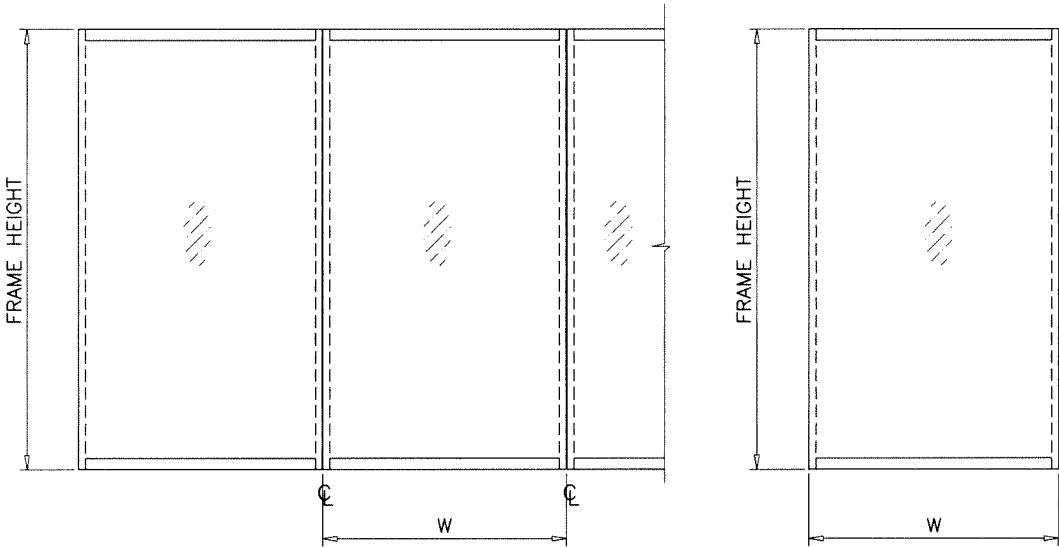
drawing no.

W17-86

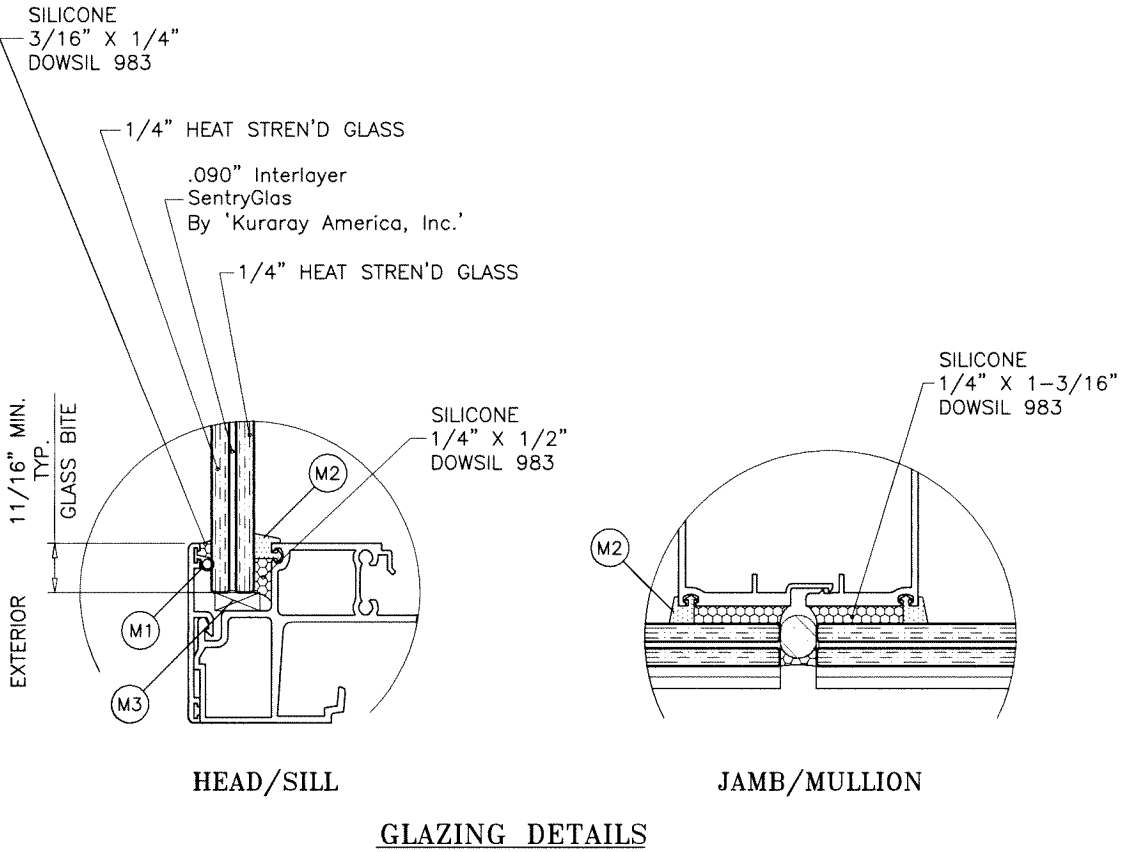
sheet 1 of 6

DESIGN LOAD CAPACITY - PSF			
NOMINAL DIMS.		9/16" LAM. GLASS	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)
30"	84"	80.0	110.0
36"		80.0	110.0
42"		80.0	110.0
48"		80.0	110.0
49-3/8"		80.0	110.0
30"	96"	80.0	110.0
36"		80.0	110.0
42"		80.0	110.0
48"		80.0	110.0
49-3/8"		80.0	110.0
30"	109"	80.0	110.0
36"		80.0	110.0
42"		80.0	110.0
48"		80.0	110.0
49-3/8"		80.0	110.0

INTERPOLATION BETWEEN WIDTHS AND HEIGHTS ALLOWED.



NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS).



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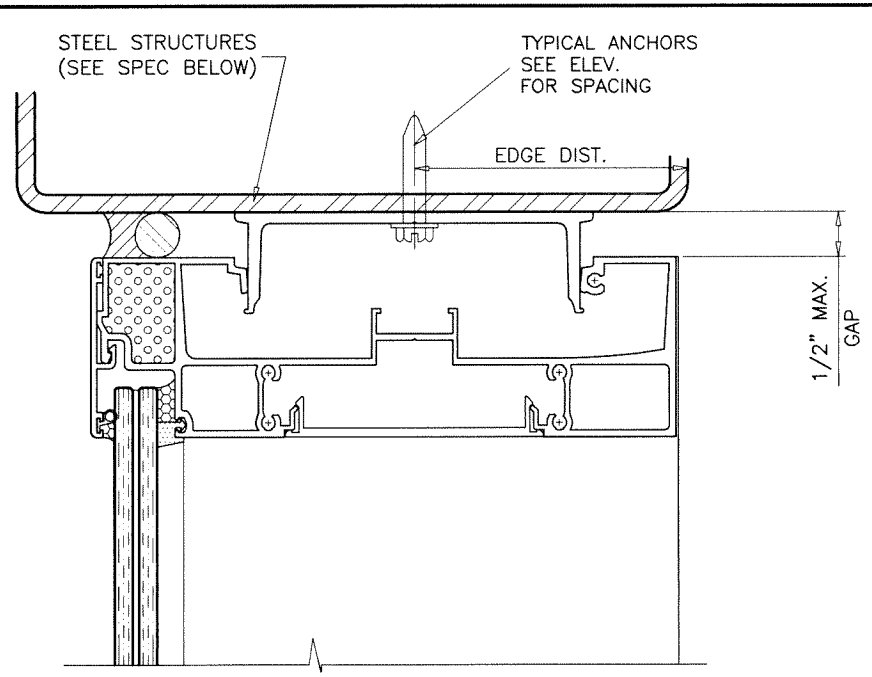
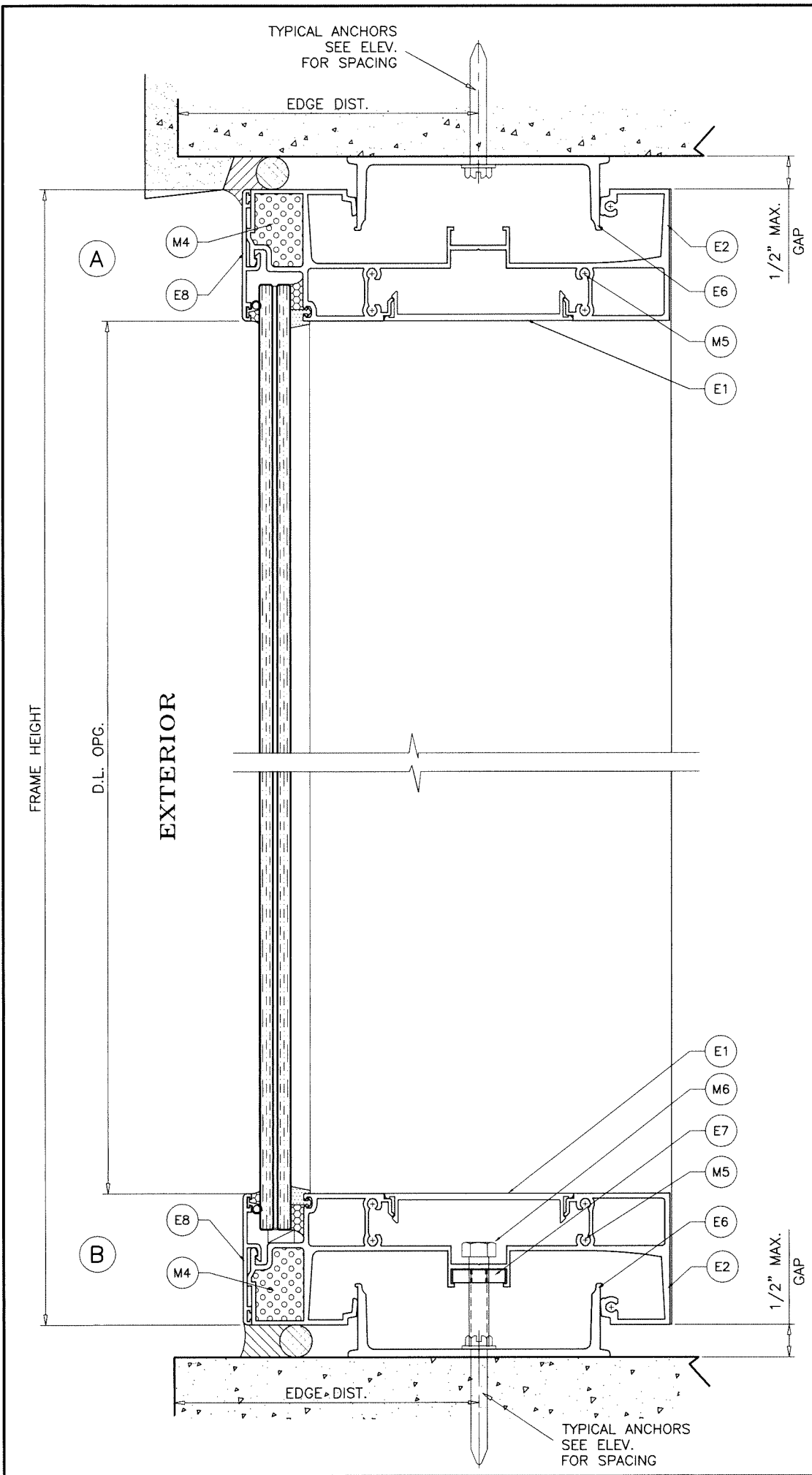
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ES-WW832 ALUM WINDOW WALL SYSTEM (L.M.I.)

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revisions:		no		date		by		description	
date: 02-06-17		scale: 3/8" = 1"		dr. by: TARIQ		chk. by:		drawing no.	
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								sheet 2 of 6	

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METAL STRUCTURES NOT BY 'E.S. WDW.'
MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND
TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

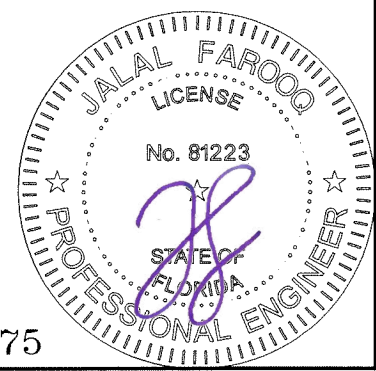
TYPE 'A' (HEAD/SILL)
1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONCRETE (3000 PSI MIN.)
WITH 1-3/4" MIN. EMBED INTO CONCRETE, 3-3/4" O.C. MIN.

ANCHOR EDGE DISTANCES
INTO CONCRETE = 2-1/2" MIN.

TYPE 'B' (HEAD/SILL)
1/4" DIA. DRILL-FLEX SELF DRILLING SCREWS (Fu=120 KSI, Fy=95 KSI)
INTO METAL STRUCTURES, 3-3/4" O.C. MIN.
(3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

ANCHOR EDGE DISTANCES
INTO METAL STRUCTURE = 1" MIN.

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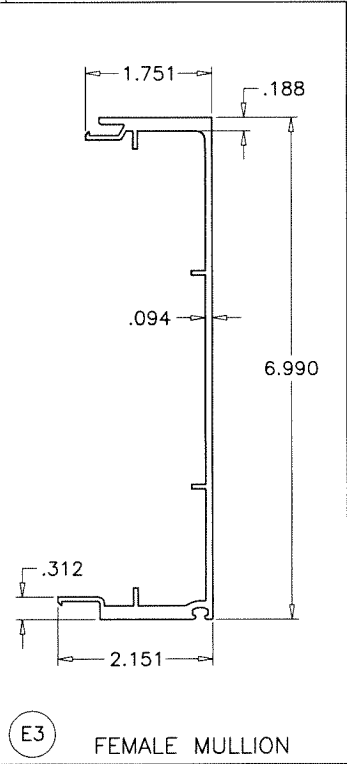
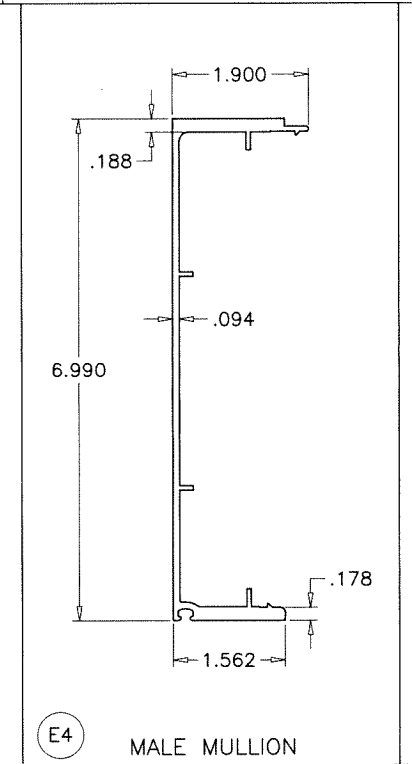
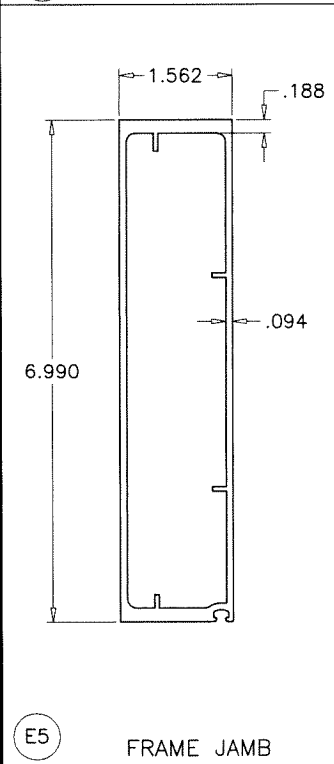
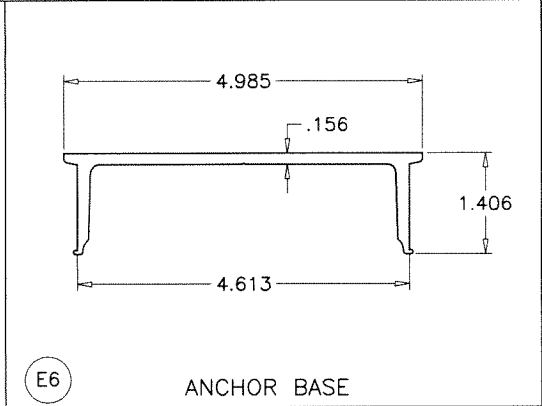
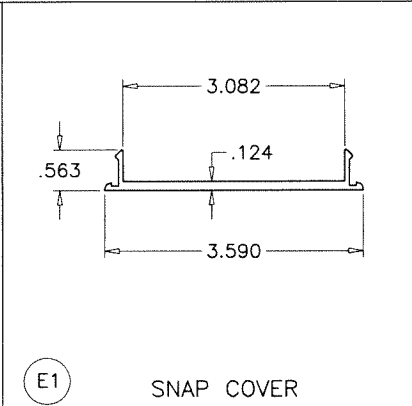
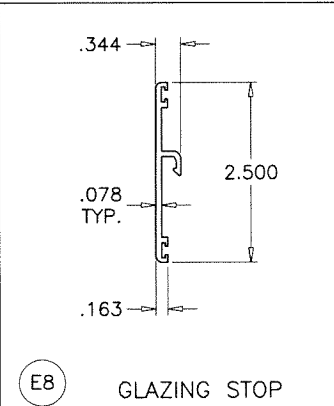
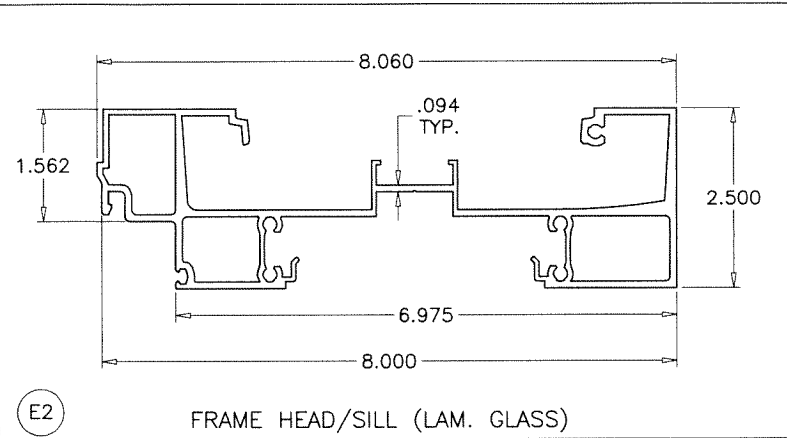
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chk. by:

drawing no.
W17-86
sheet 3 of 6



ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	ES-WW8832-052	AS REQD.	SCREW COVER	6005-T5	-
E2	ES-WW8832-053	AS REQD.	FRAME HEAD/SILL	6005-T5	-
E3	ES-WW8832-102	AS REQD.	FEMALE MULLION	6063-T6	-
E4	ES-WW8832-103	AS REQD.	MALE MULLION	6063-T6	-
E5	ES-WW8832-104	AS REQD.	FRAME JAMB	6063-T6	-
E6	ES-WW8832-201	AS REQD.	ANCHOR CHANNEL	6005-T5	-
E7	ALU-P-020	AS REQD.	1" X 1" SILL LEVELER	ALUMINUM	-
E8	ES-7006	AS REQD.	GLAZING STOP	6063-T5	-
M1	ES7000-G01	AS REQD.	EXTERIOR GLASS SEAL	SILICONE	TREMCO, DUROMETER 60±5 SHORE A
M2	ES-U3525-G08	AS REQD.	SPACER GASKET	SILICONE	TREMCO, DUROMETER 70±5 SHORE A
M3	80-378	2/ LITE	SETTING BLOCKS AT 1/4 POINTS	EPDM	TREMCO, DUROMETER 85±5 SHORE A
M4	ES-6025-809	AS REQD.	END PLUG, 3/4" LONG	FOAM	-
M5	#12 X 1"	AS REQD.	FRAME ASSEMBLY FASTENERS	ST/ST	PH SMS
M6	3/8-16 X 2"	AS REQD.	LEVELING SCREW	ST/ST	HWH
M7	5/8" DIA.	AS REQD.	BACKER ROD	POLYETHYLENE FOAM	-

SEALANTS:
ALL FRAME CORNERS, JOINTS, MULLION SEAMS AND PERIMETER OF GLAZING BEAD TO FRAME SEALED WITH SILICONE SEALANT.

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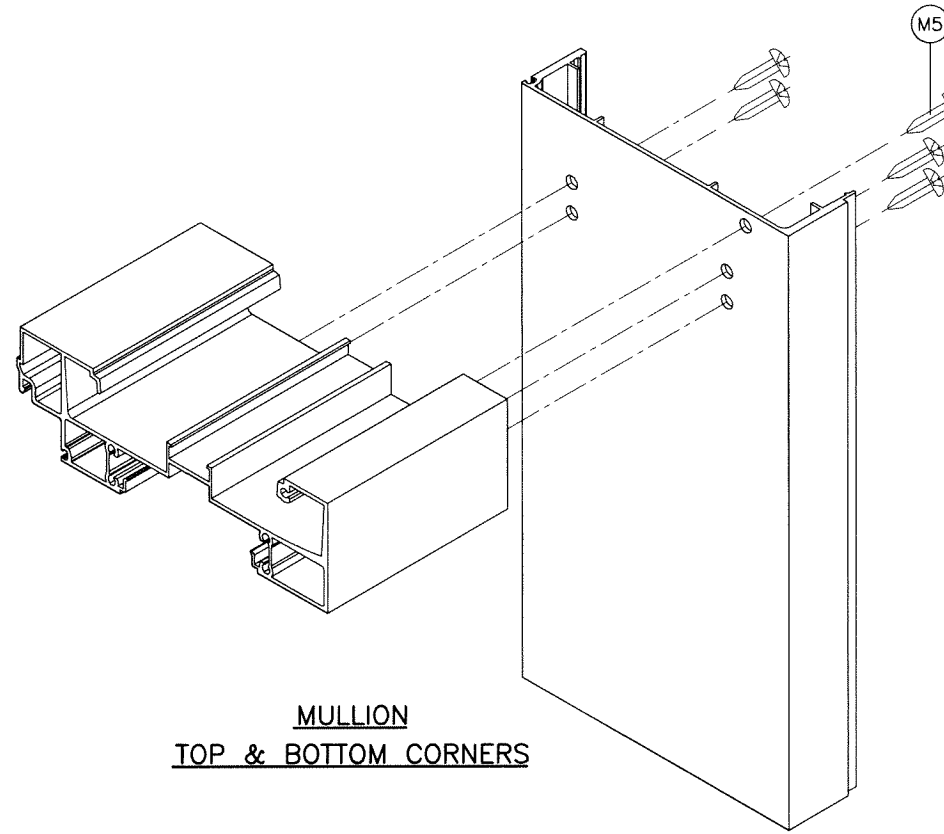
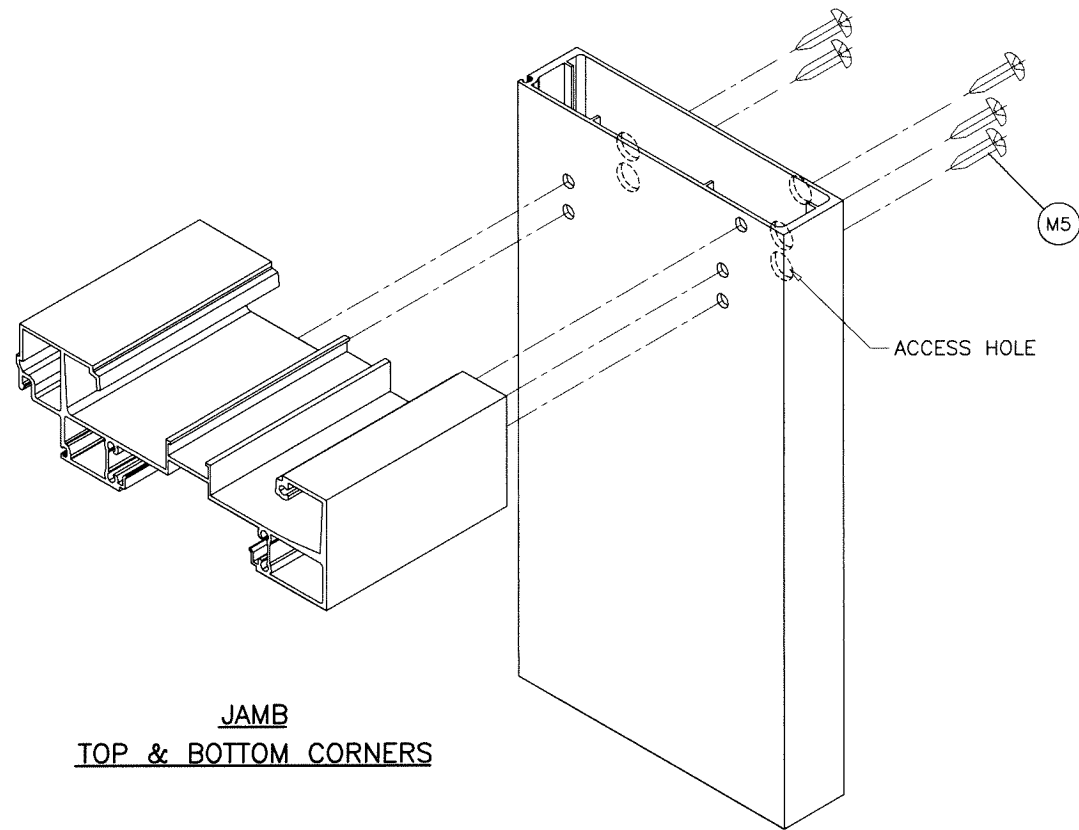
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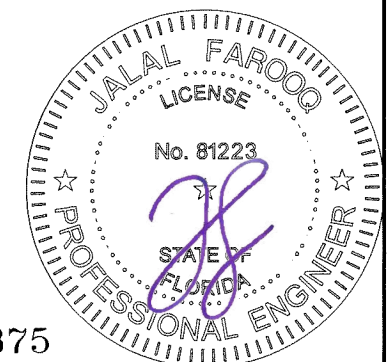
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drawing no. **W17-86** sheet 5 of 6



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sheet 6 of 6			

revisions:	
no	date by description