

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

THESE WINDOWS ARE RATED FOR LARGE & SMALL MISSILE IMPACT.
SHUTTERS ARE NOT REQUIRED.

**SERIES 250 IR
ALUMINUM SINGLE HUNG WINDOW**

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

FOR COMBINATIONS OF S.H./S.H. OR SINGLE HUNG WITH
FIXED WINDOWS IN MODULES OF TWO OR MORE WINDOWS
USING ZERO & 1X3 MULLIONS IN BETWEEN SEE CHARTS ON
SHEET 4 & 5.

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 2017 (6TH 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.

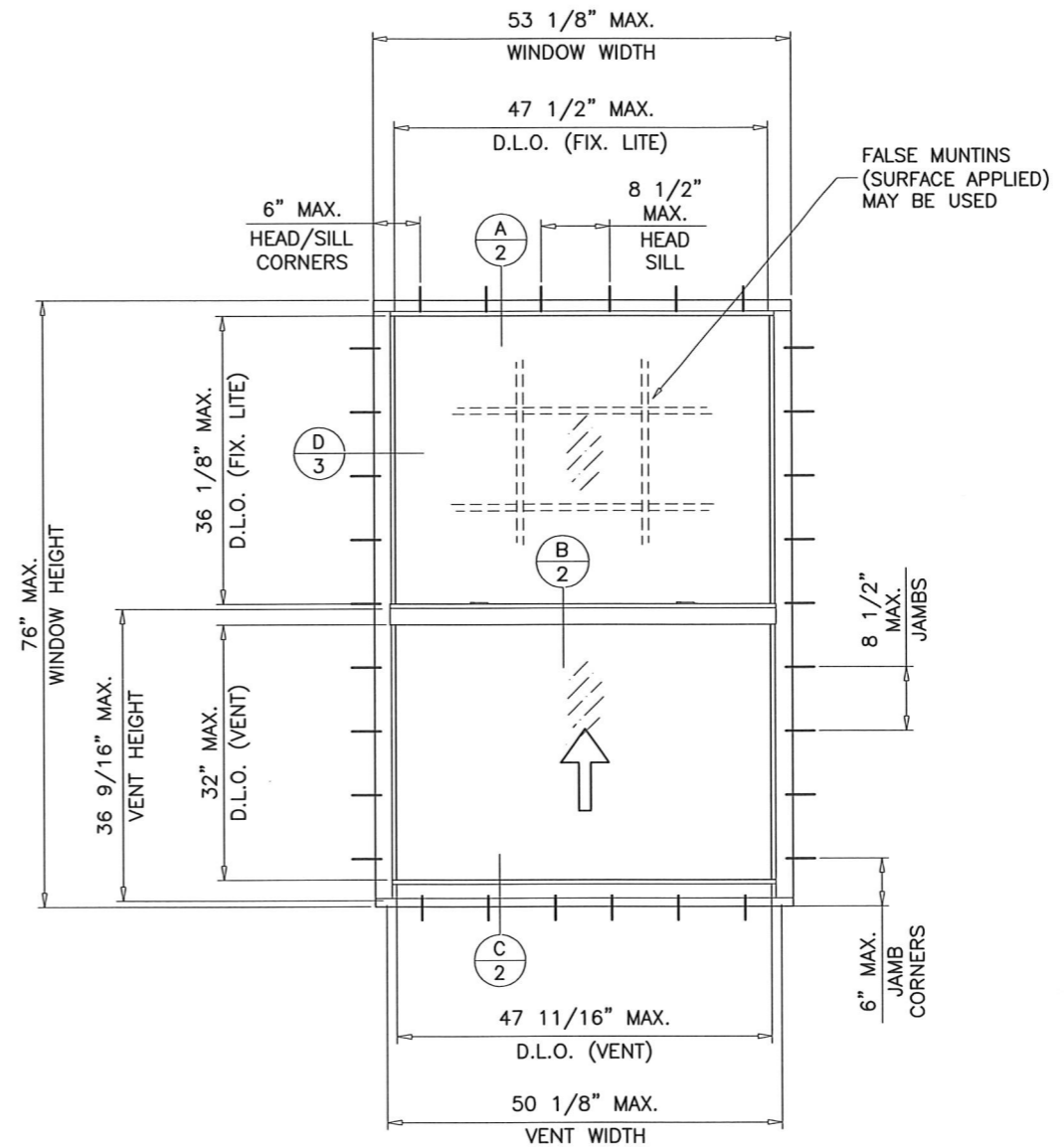
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT
COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE
REQUIREMENTS OF THE 2017 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.

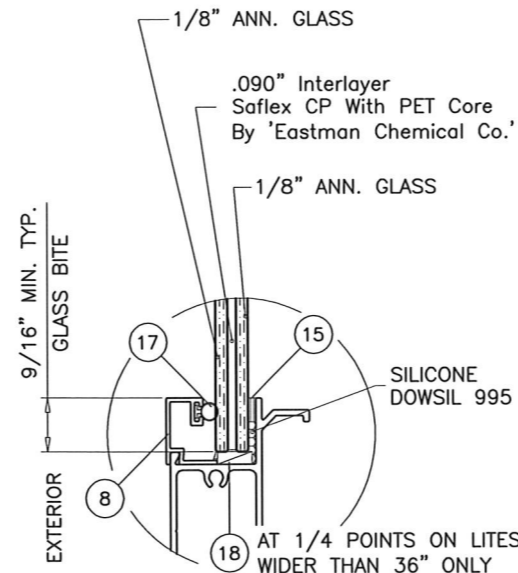
CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY,
AND TO BE REVIEWED BY BUILDING OFFICIAL.

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.



TYPICAL ELEVATION

MAXIMUM DESIGN LOAD RATING = + 73.7 PSF
(FOR SIZES SHOWN ABOVE OR SMALLER) - 73.7 PSF



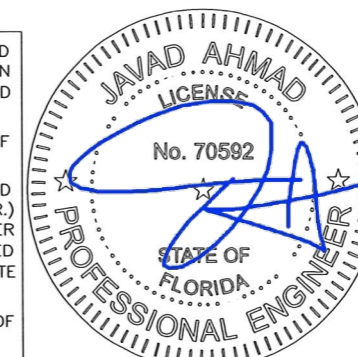
GLAZING DETAIL
5/16" OVERALL LAM. GLASS

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.



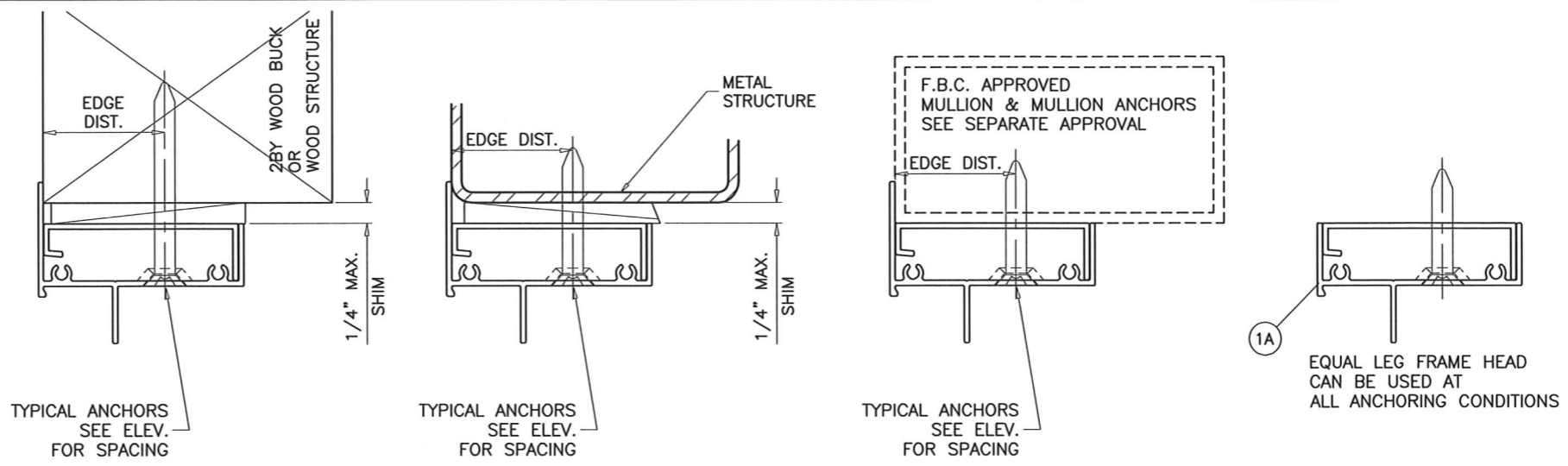
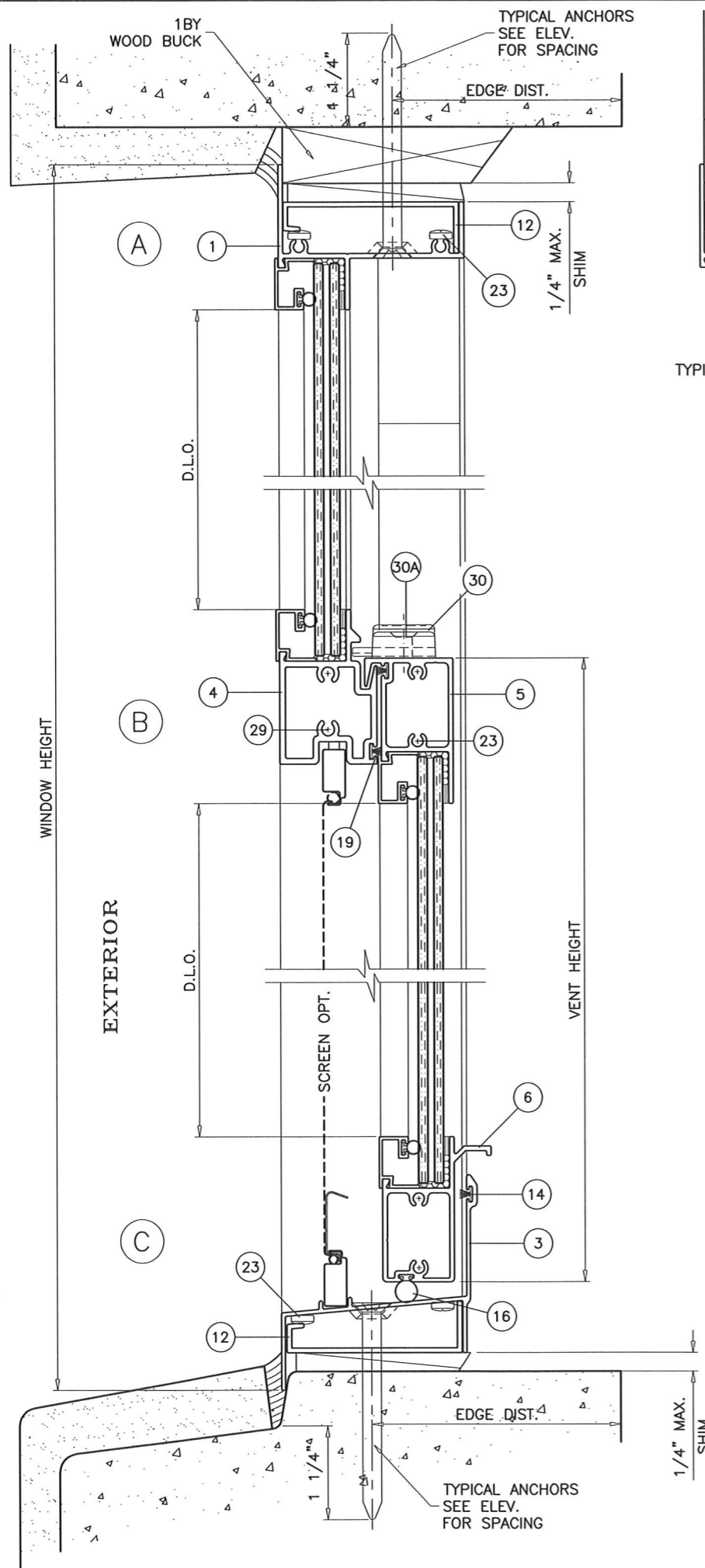
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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL 18-02F-AM

SERIES 250 IR ALUM SINGLE HUNG WDW. (L.M.I.)
AIR MASTER
windows and doors
P.O. Box 2097 Barceloneta, P.R. 00617,
TEL. (787) 623-1800, FAX. (787) 623-0087

revisions:	no	date	description	by
	A	06.14.18	MULLION CHARTS REV.	

date: 12-20-17
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no.
18-02F
sheet 1 of 8



1BY OR 2BY WOOD BUCKS AND METAL STRUCTURE NOT BY AIR MASTER MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

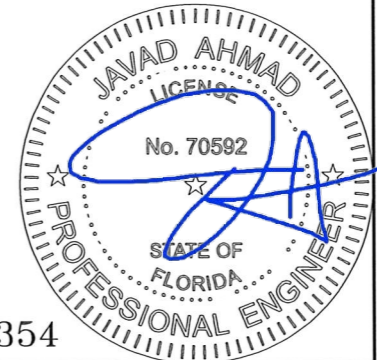
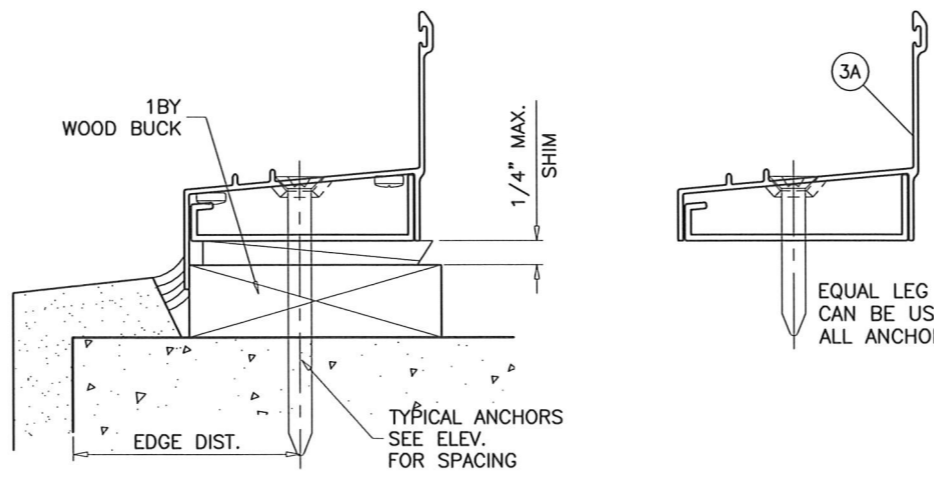
1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI) INTO 2BY WOOD BUCKS OR WOOD STRUCTURES 1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS) THRU 1BY BUCKS INTO CONC. OR BLOCKS 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS) 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS) DIRECTLY INTO CONCRETE OR BLOCKS 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS) 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

3/16" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS) INTO F.B.C. APPROVED MULLIONS OR INTO METAL STRUCTURES (HEAD/SILL/JAMBS) (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.) STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.) (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE

INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
 INTO WOOD STRUCTURE = 1" MIN.
 INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.
 CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
 C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.



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 windows and doors
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revisions:	no.	date	description

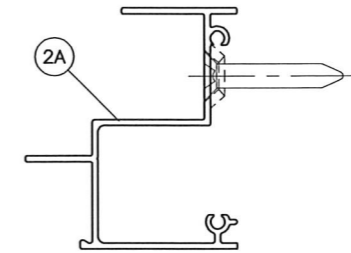
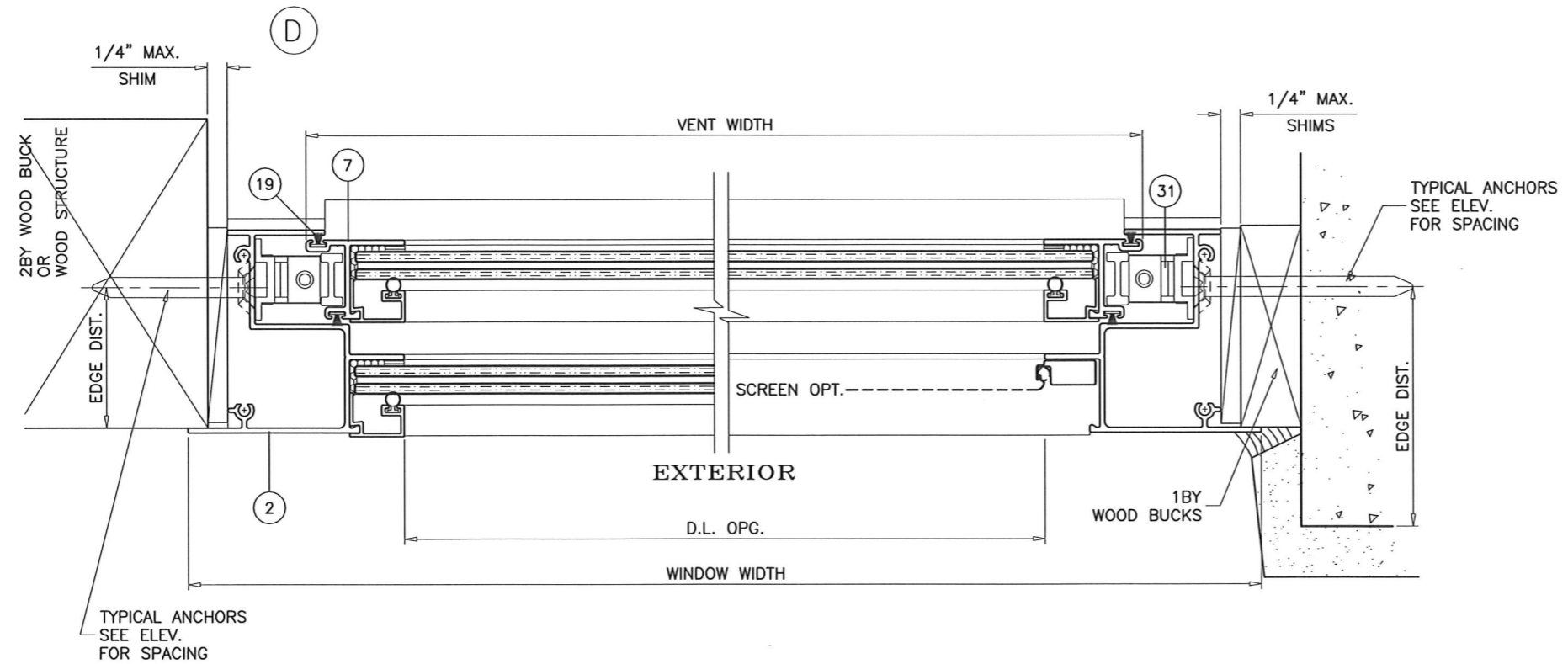
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 chg. by:

drawing no.
18-02F

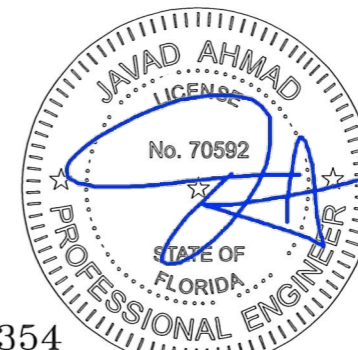
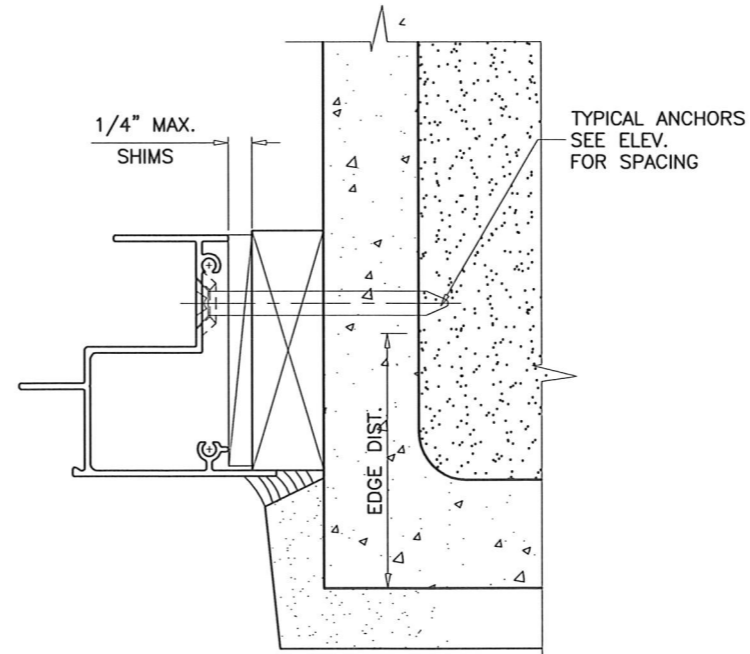
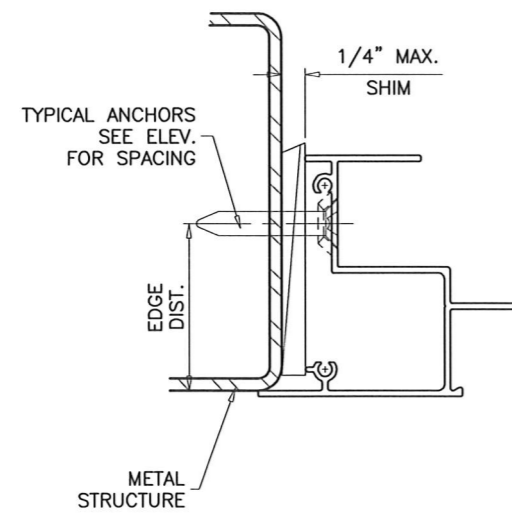
sheet 2 of 8

Sealed: 6/19/2018

COMP-ANL\18-02F-AM



EQUAL LEG FRAME JAMB
CAN BE USED AT
ALL ANCHORING CONDITIONS



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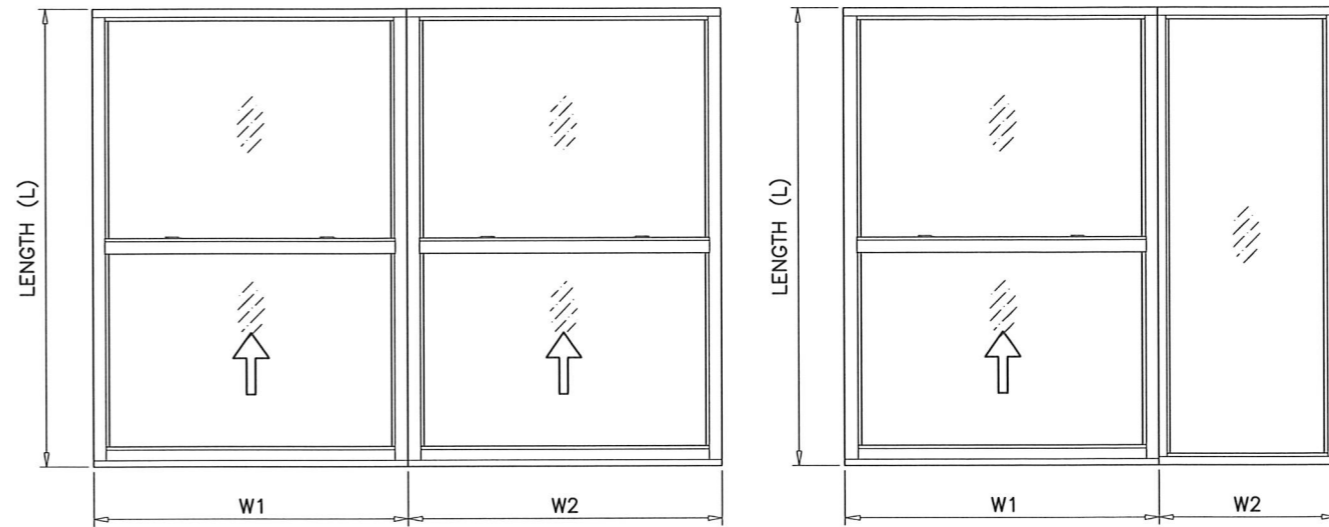
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scale:	1/2" = 1"			
dr. by:	TARIQ			
chk. by:				
drawing no.	18-02F			
sheet	3 of 8			

Sealed: 6/19/2018

MULLION LOAD CAPACITY - PSF			
WINDOW DIMS.		MULL 'M1'	MULL 'M2'
WIDTH (W)	LENGTH (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
19-1/8"	26"	73.7	73.7
26-1/2"		73.7	73.7
32"		73.7	73.7
37"		73.7	73.7
42"		73.7	73.7
48"		73.7	73.7
53-1/8"	38-3/8"	73.7	73.7
19-1/8"		73.7	73.7
26-1/2"		73.7	73.7
32"		73.7	73.7
37"		73.7	73.7
42"		73.7	73.7
48"	73.7	73.7	
53-1/8"	50-5/8"	73.7	73.7
19-1/8"		73.7	73.7
26-1/2"		73.7	73.7
32"		73.7	73.7
37"		73.7	73.7
42"		73.7	73.7
48"	73.7	73.7	
53-1/8"	63-1/4"	73.7	73.7
19-1/8"		73.7	73.7
26-1/2"		73.7	73.7
32"		73.7	73.7
37"		73.7	73.7
42"		73.7	73.7
48"	73.7	73.7	
53-1/8"	74-1/4"	72.7	67.7
19-1/8"		73.7	73.7
26-1/2"		73.7	73.7
32"		73.7	73.7
37"		70.5	65.6
42"		59.0	54.7
48"	52.6	48.8	
53-1/8"	76"	48.1	44.7
19-1/8"		73.7	73.7
26-1/2"		73.7	73.7
32"		73.7	70.0
37"		67.0	62.4
42"		56.1	52.0
48"	50.0	46.4	
53-1/8"		45.8	42.5

ZERO CLIPPED MULLION

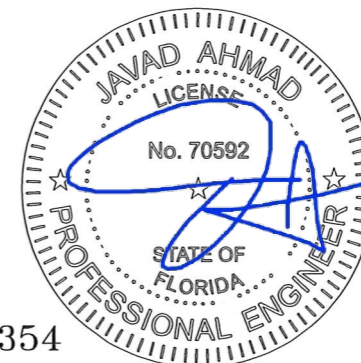
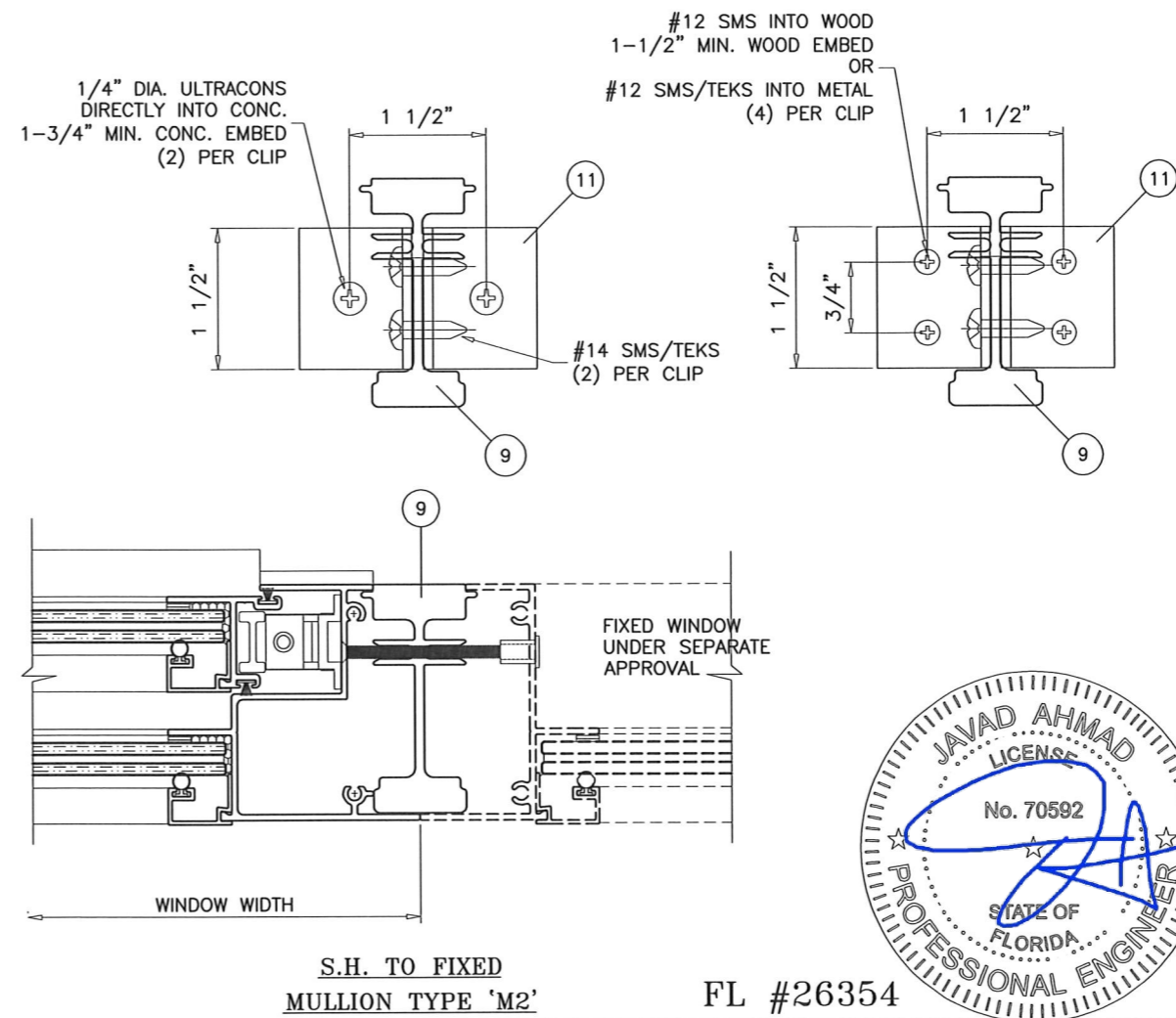
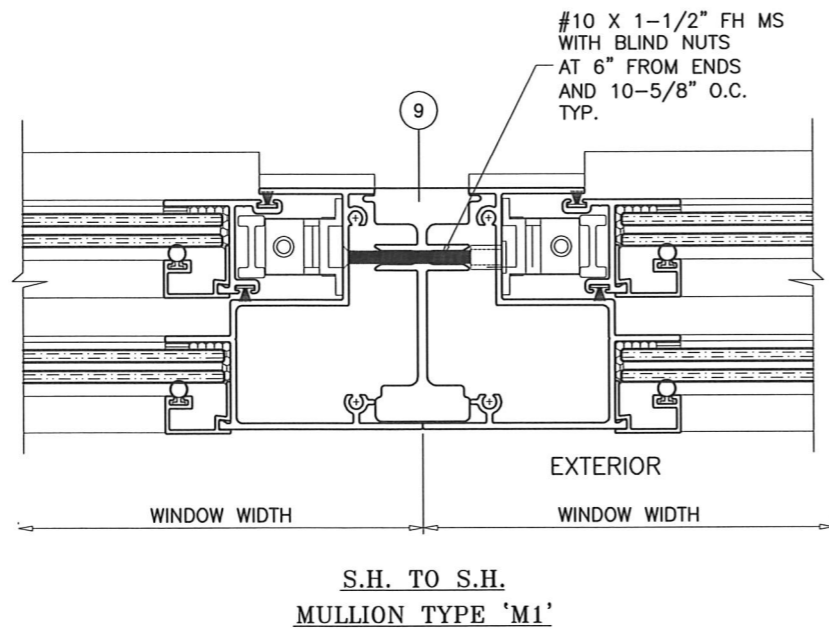


TYPICAL ELEVATIONS
SIDE BY SIDE WINDOWS
SIDE BY SIDE APPLIES TO TWO OR MORE WINDOWS

$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$

NOTES:

1. USE CHART ON THIS SHEET FOR SIDE BY SIDE CONNECTION CAPACITY OF WINDOW MULLION.
2. FOR SINGLE HUNG WINDOW CAPACITY SEE SHEET 1.
3. FOR FIXED WINDOW CAPACITY SEE SEPARATE APPROVAL.
4. LOWER VALUES FROM STEPS 1, 2 OR 3 WILL APPLY TO ENTIRE SYSTEM.



FL #26354

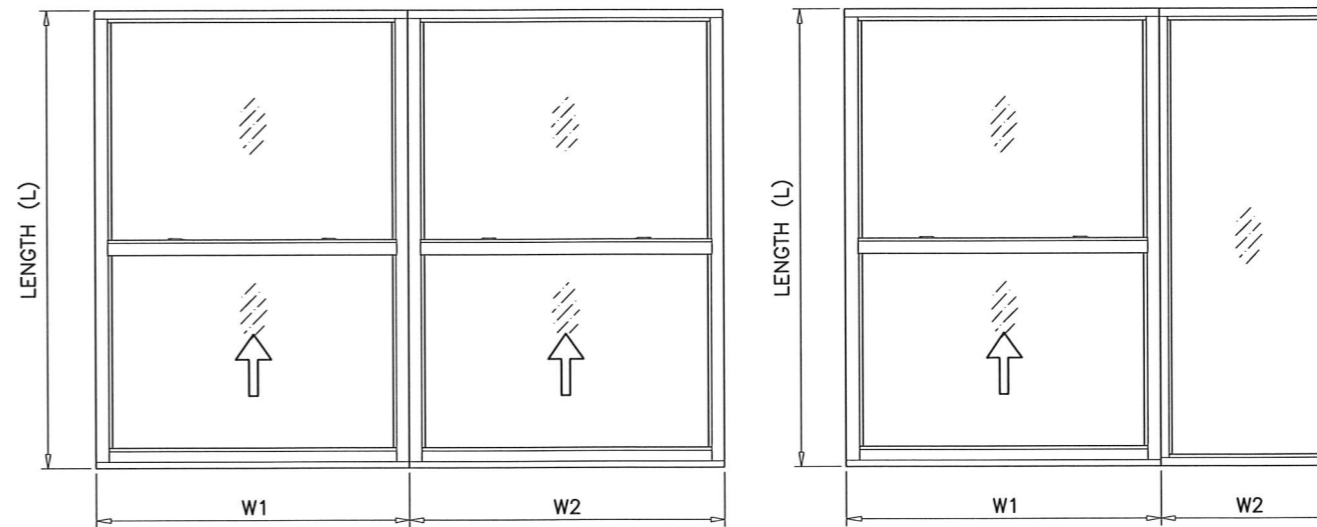
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revisions:	no	date	description
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drawing no.	18-02F		
sheet	4 of 8		

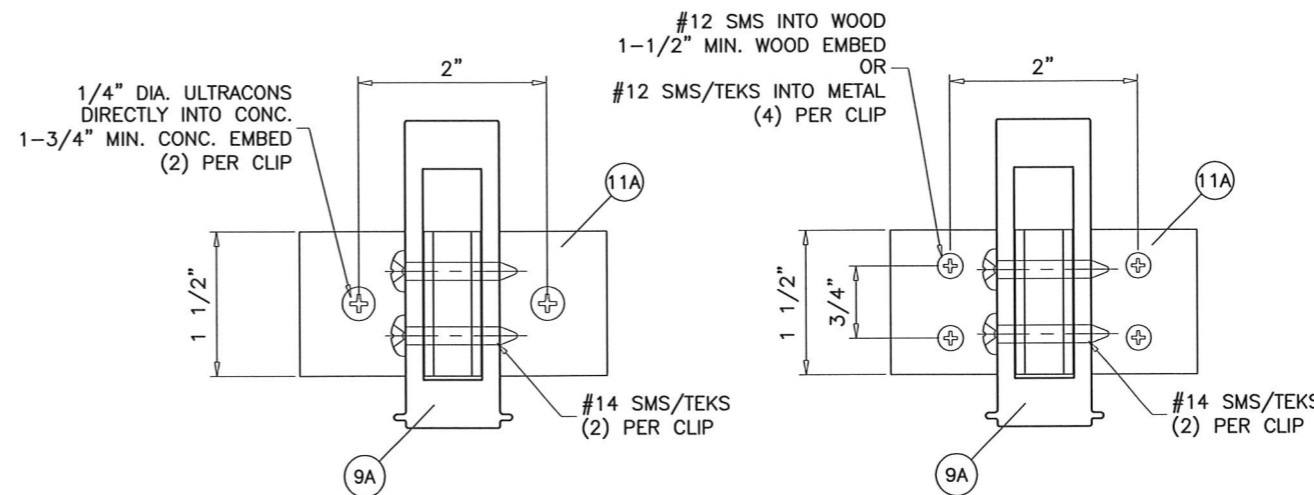
MULLION LOAD CAPACITY - PSF			
WINDOW DIMS.		MULL 'M1A'	MULL 'M2A'
WIDTH (W)	LENGTH (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
19-1/8"	26"	73.7	73.7
26-1/2"		73.7	73.7
32"		73.7	73.7
37"		73.7	73.7
42"		73.7	73.7
48"		73.7	73.7
53-1/8"	38-3/8"	73.7	73.7
19-1/8"		73.7	73.7
26-1/2"		73.7	73.7
32"		73.7	73.7
37"		73.7	73.7
42"		73.7	73.7
48"	73.7	73.7	
53-1/8"	50-5/8"	73.7	73.7
19-1/8"		73.7	73.7
26-1/2"		73.7	73.7
32"		73.7	73.7
37"		73.7	73.7
42"		73.7	73.7
48"	73.7	73.7	
53-1/8"	63-1/4"	73.7	73.7
19-1/8"		73.7	73.7
26-1/2"		73.7	73.7
32"		73.7	73.7
37"		73.7	73.7
42"		73.7	73.7
48"	73.7	73.7	
53-1/8"	74-1/4"	73.7	73.7
19-1/8"		73.7	73.7
26-1/2"		73.7	73.7
32"		73.7	73.7
37"		73.7	73.7
42"		73.7	73.7
48"	73.4	73.4	
53-1/8"	76"	68.2	68.2
19-1/8"		73.7	73.7
26-1/2"		73.7	73.7
32"		73.7	73.7
37"		73.7	73.7
42"		73.7	73.7
48"	71.3	71.3	
53-1/8"		66.2	66.2

HEAVY CLIPPED MULLION



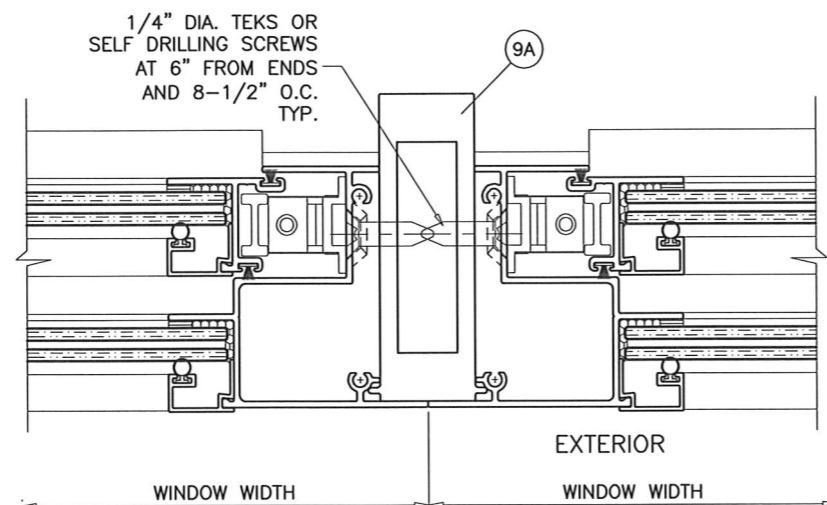
TYPICAL ELEVATIONS
SIDE BY SIDE WINDOWS
SIDE BY SIDE APPLIES TO TWO OR MORE WINDOWS

$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$

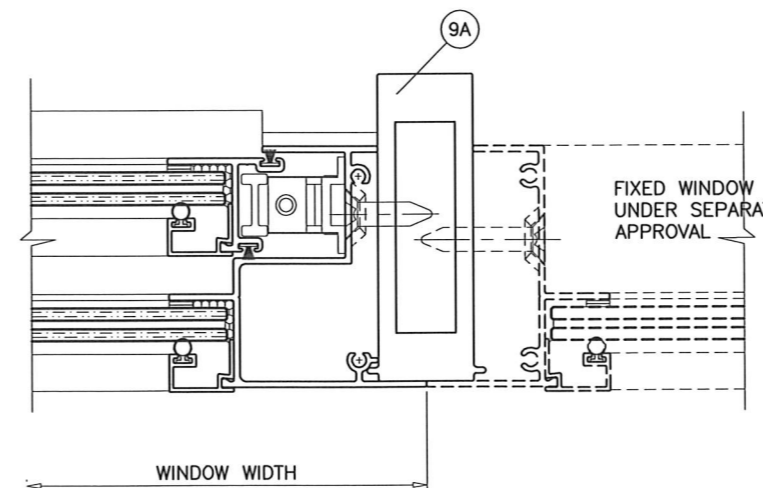


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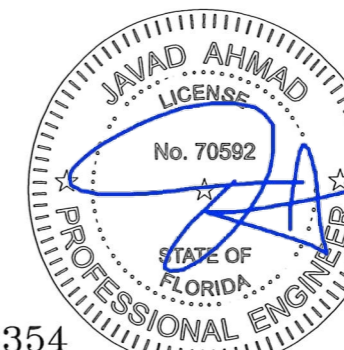
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- FOR SINGLE HUNG WINDOW CAPACITY SEE SHEET 1.
- FOR FIXED WINDOW CAPACITY SEE SEPARATE APPROVAL.
- LOWER VALUES FROM STEPS 1, 2 OR 3 WILL APPLY TO ENTIRE SYSTEM.



S.H. TO S.H.
MULLION TYPE 'M1A'



S.H. TO FIXED
MULLION TYPE 'M2A'

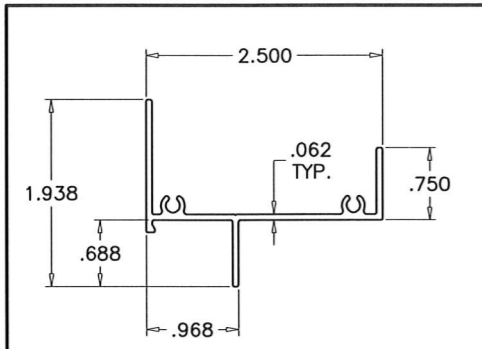


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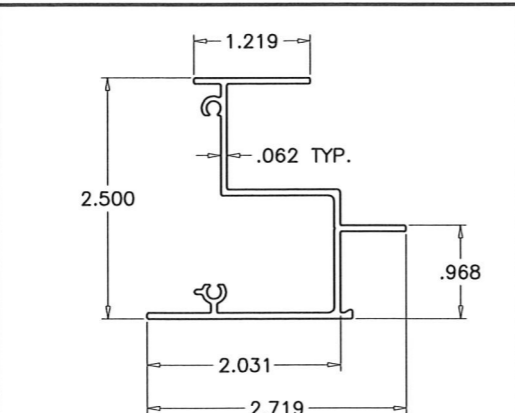
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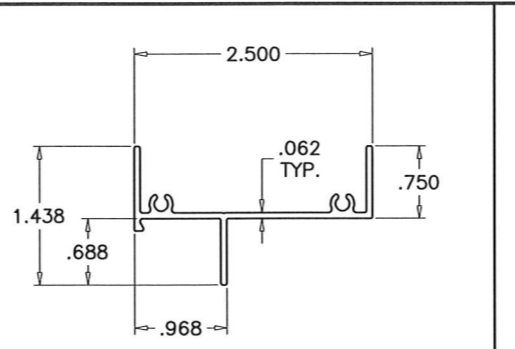
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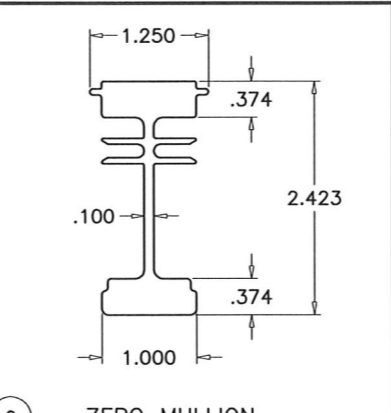
1 FRAME HEAD (FLANGE)



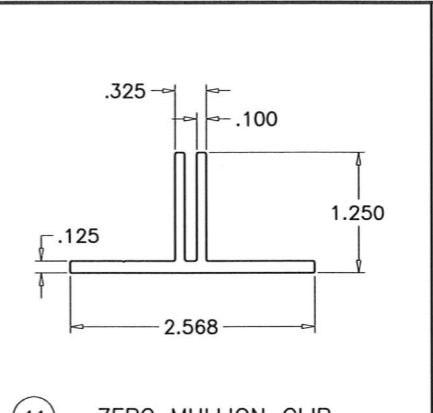
2 FRAME JAMB (FLANGE)



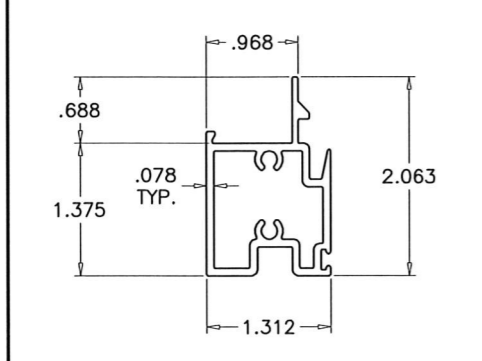
1A FRAME HEAD (EQUAL LEG)



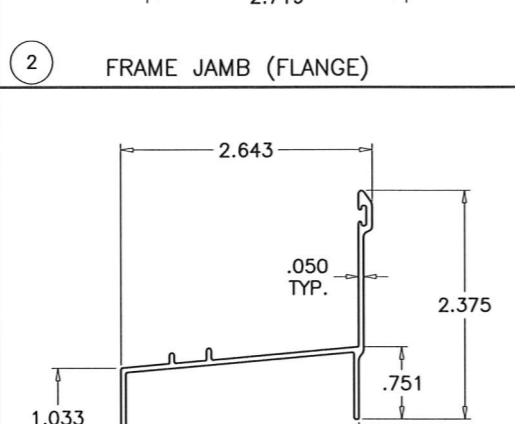
9 ZERO MULLION



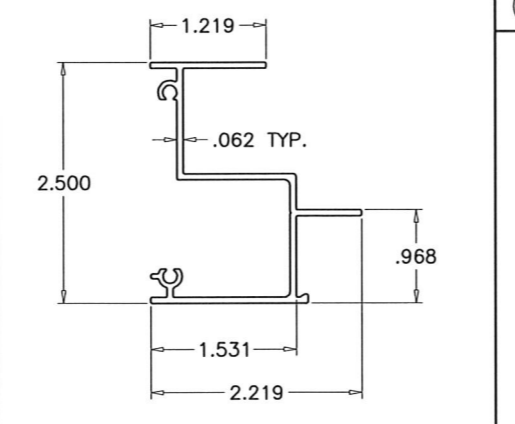
11 ZERO MULLION CLIP



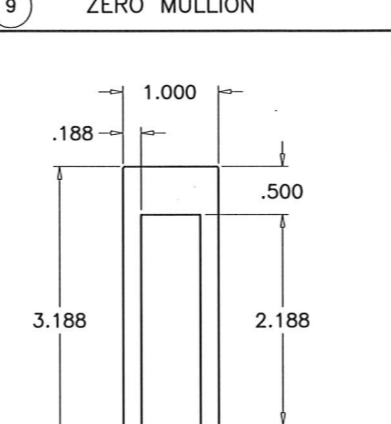
4 FIX. MEETING RAIL



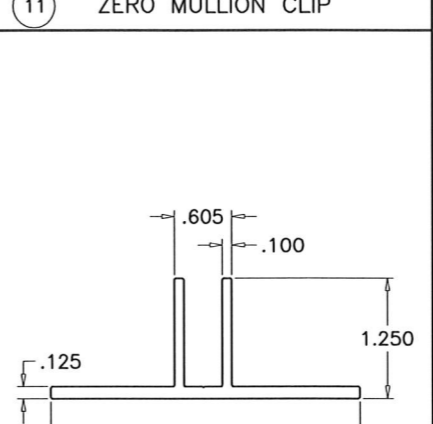
3 FRAME SILL (FLANGE)



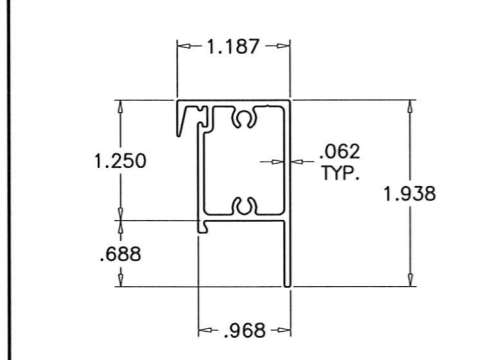
2A FRAME JAMB (EQUAL LEG)



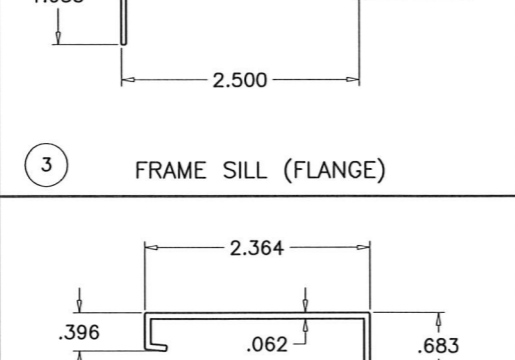
9A HEAVY MULLION



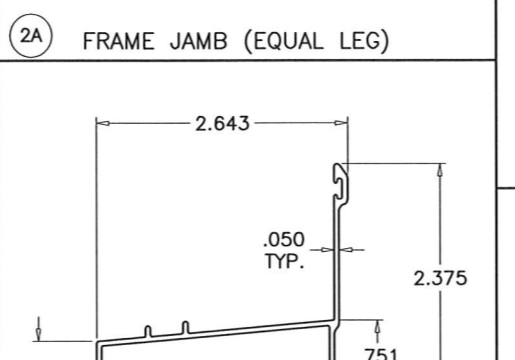
11A HEAVY MULLION CLIP



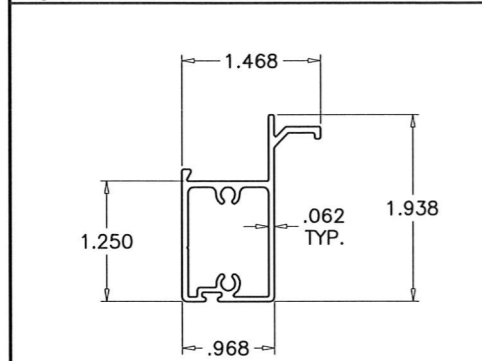
5 VENT TOP RAIL



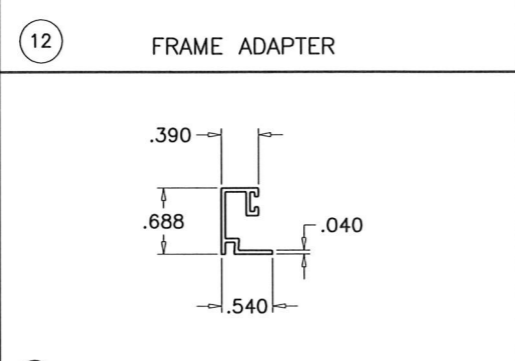
12 FRAME ADAPTER



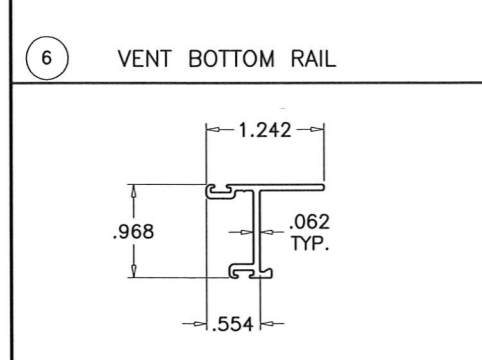
3A FRAME SILL (EQUAL LEG)



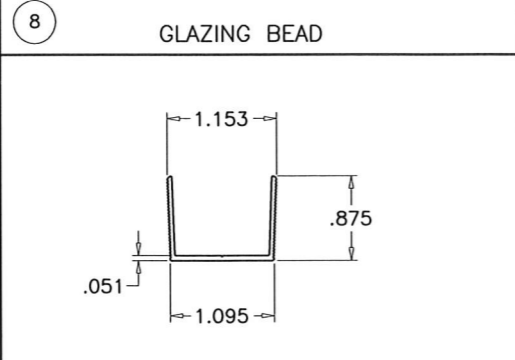
6 VENT BOTTOM RAIL



8 GLAZING BEAD



7 VENT SIDE RAIL



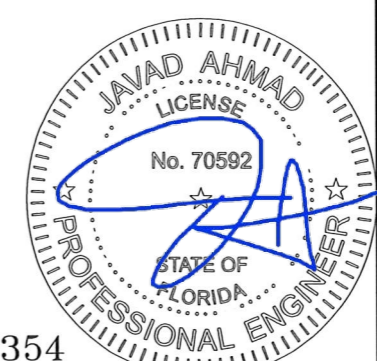
10 VENT STOP

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AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173 (C.A.N. 3538)
 TEL. (305) 264-5100 FAX. (305) 262-6978
 COMP-ANL 18-02F-AM

SERIES 250 IR ALUM SINGLE HUNG WDW. (L.M.I.)
AIR MASTER
 windows and doors
 P.O. Box 2097 Barceloneta, P.R. 00617,
 TEL. (787) 623-1800, FAX. (787) 623-0087

revisions:	no	date	by	description

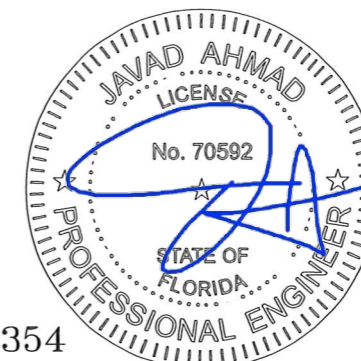
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 chk. by:
 drawing no.
18-02F
 sheet 6 of 8



FL #26354

Sealed: 6/19/2018

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	22018	1	FRAME HEAD (FLANGE)	6063-T5	-
1A	22017	1	FRAME HEAD (EQUAL LEG)	6063-T5	-
2	22022	2	FRAME JAMB (FLANGE)	6063-T5	-
2A	-	2	FRAME JAMB (EQUAL LEG)	6063-T5	-
3	22701	1	FRAME SILL (FLANGE)	6063-T5	-
3A	22713	1	FRAME SILL (EQUAL LEG)	6063-T5	-
4	22019	1	FIXED MTG. RAIL	6063-T5	-
5	22023	1	VENT TOP RAIL	6063-T5	-
6	22024	1	VENT BOTTOM RAIL	6063-T5	-
7	22025	2	VENT SIDE RAIL	6063-T5	-
8	22250	AS REQD.	GLAZING BEAD	6063-T5	-
9	22029	AS REQD.	ZERO MULLION	6063-T6	-
9A	22564	AS REQD.	HEAVY MULLION	6063-T6	-
10	22012	2	VENT STOP	6063-T5	-
11	22028	AS REQD.	ZERO MULLION CLIP	6063-T5	-
11A	22563	AS REQD.	HEAVY MULLION CLIP	6063-T5	-
12	22715	AS REQD.	FRAME ADAPTER	6063-T5	-
14	22438	AS REQD.	PILE W'STRIPPING	POLYPROPYLENE	ULTRAFAB
15	96707	AS REQD.	DOUBLE FACE GLAZING TAPE (VHB 4991B)	-	3M
16	32010	AS REQD.	BOTTOM RAIL W'STRIPPING	EPDM	DUROMETER 65±3 SHORE A
17	96936	AS REQD.	GLAZING BEAD BULB	SILICONE	MSW, DUROMETER 65±5 SHORE A
18	-	AS REQD.	SETTING BLOCKS	EPDM	DUROMETER 80±5 SHORE A
19	96817	AS REQD.	JAMB W'STRIPPING	POLYPROPYLENE	ULTRAFAB
20	95000	AS REQD.	JAMB HEAD GASKET	BUTYL	LAMATEK
21	95001	AS REQD.	JAMB HEAD GASKET	BUTYL	LAMATEK
22	95002	AS REQD.	FIXED RAIL GASKET	BUTYL	LAMATEK
23	95499	AS REQD.	FRAME AND VENT ASSEMBLY FASTENERS	ST. STEEL	#8 X 3/4" PH SMS
24	60707	AS REQD.	NUTS BLIND 10-24	ST. STEEL	#8 X 3/4" PH SMS
25	95578	AS REQD.	FASTENERS	ST. STEEL	#10-24 X 2" RH SMS
29	95543	AS REQD.	FIX. RAIL ASSEMBLY FASTENERS	ST. STEEL	#10 X 1" PH SMS
30	10698	2/ VENT	SWEEP LATCH	-	SULLIVAN & ASSOC.
30A	#8 X 1"	2/ LATCH	LATCH INSTALLATION FASTENERS	ST. STEEL	FH SMS
31	10514	2/VENT	BLOCK & TACKLE BALANCE	-	AMESBURY/CALDWELL
32	10696	2	VENT GUIDE	NYLON	MASTER TOOL CO.



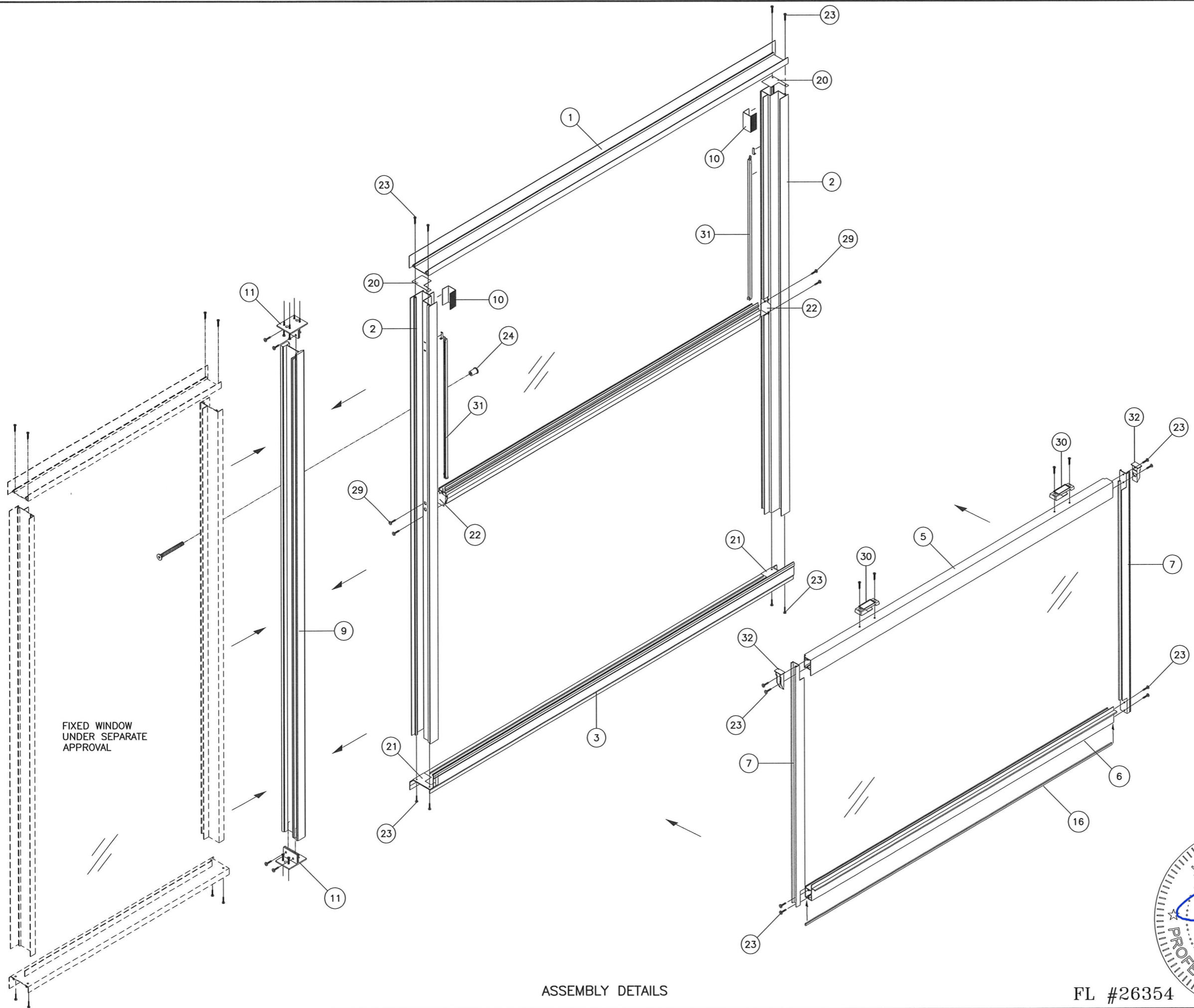
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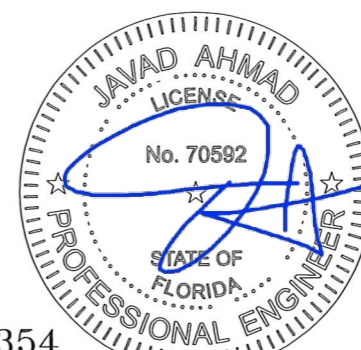
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drawing no.	18-02F			
sheet	7 of 8			

Sealed: 6/19/2018



FIXED WINDOW
UNDER SEPARATE
APPROVAL

ASSEMBLY DETAILS



FL #26354

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