

CURTAIN WALL WITH GLASS TYPES 'A' AND 'Ai' COMPLY WITH REQUIREMENTS OF ANSI Z97.1.

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

SERIES 2000 STICK  
ALUMINUM CURTAIN 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.

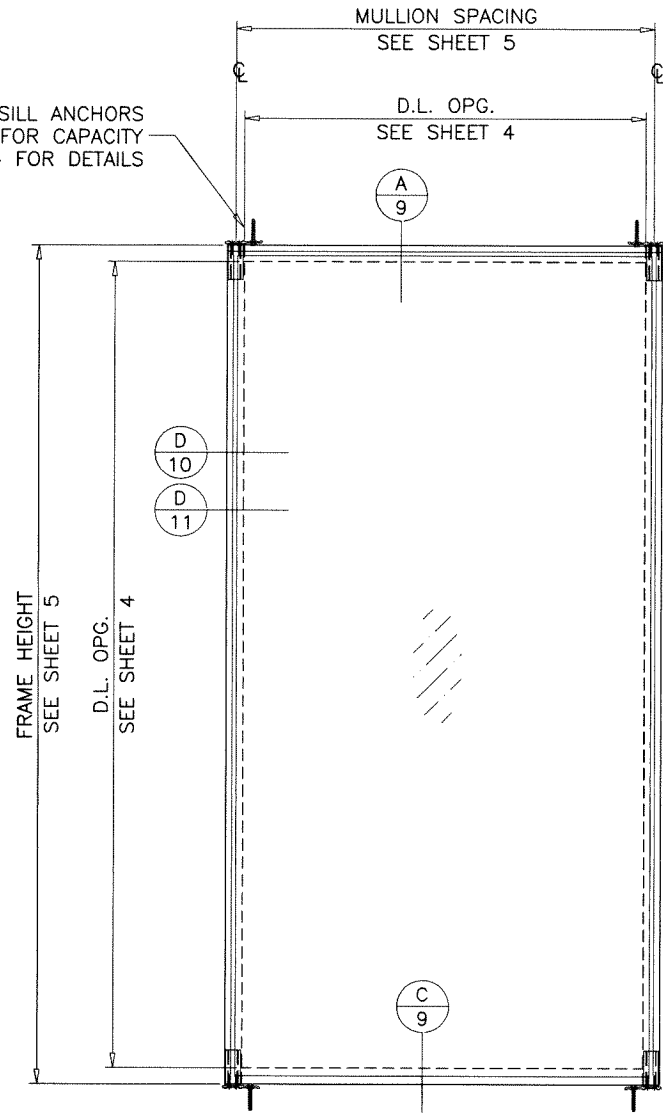
DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- STEP 1** DETERMINE DESIGN WIND PRESSURE REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** SEE CHARTS ON SHEET 4 FOR GLASS DESIGN LOAD CAPACITY.
- STEP 3** CHECK MULLION DESIGN LOAD CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEETS 5 FOR SINGLE SPANS AND SHEET 7 FOR MULTIPLE SPANS. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4** USING CHARTS ON SHEET 8 SELECT ANCHOR OPTION WITH DESIGN LOAD CAPACITY MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 5** THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 THAT EXCEED THE DESIGN WIND PRESSURES DETERMINED THRU STEP 1 SHALL APPLY TO ENTIRE SYSTEM.
- STEP 6** FOR UNANCHORED JAMBS, USING SHEET 10, DETERMINE THE MIN. & MAX. GAP DIMENSIONS.
- STEP 7** WHEN USING THIS SYSTEM WITH DOORS, SEE SHEET 7 FOR DOOR MULLION CAPACITY. THE LOWER VALUE OF THE DESIGN PRESSURE RATING FOR THE SYSTEM AND THE DOOR SHALL APPLY.

HEAD/SILL ANCHORS  
SEE SHEET 8 FOR CAPACITY  
& SHEETS 13 & 14 FOR DETAILS



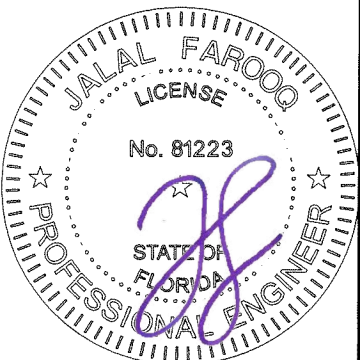
TYPICAL ELEVATION  
SINGLE 'O' PANEL

LAMINATED GLASS  
INSUL. LAM. GLASS  
LARGE MISSILE IMPACT

Sealed: 7/21/2023

FL #27401

- 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.



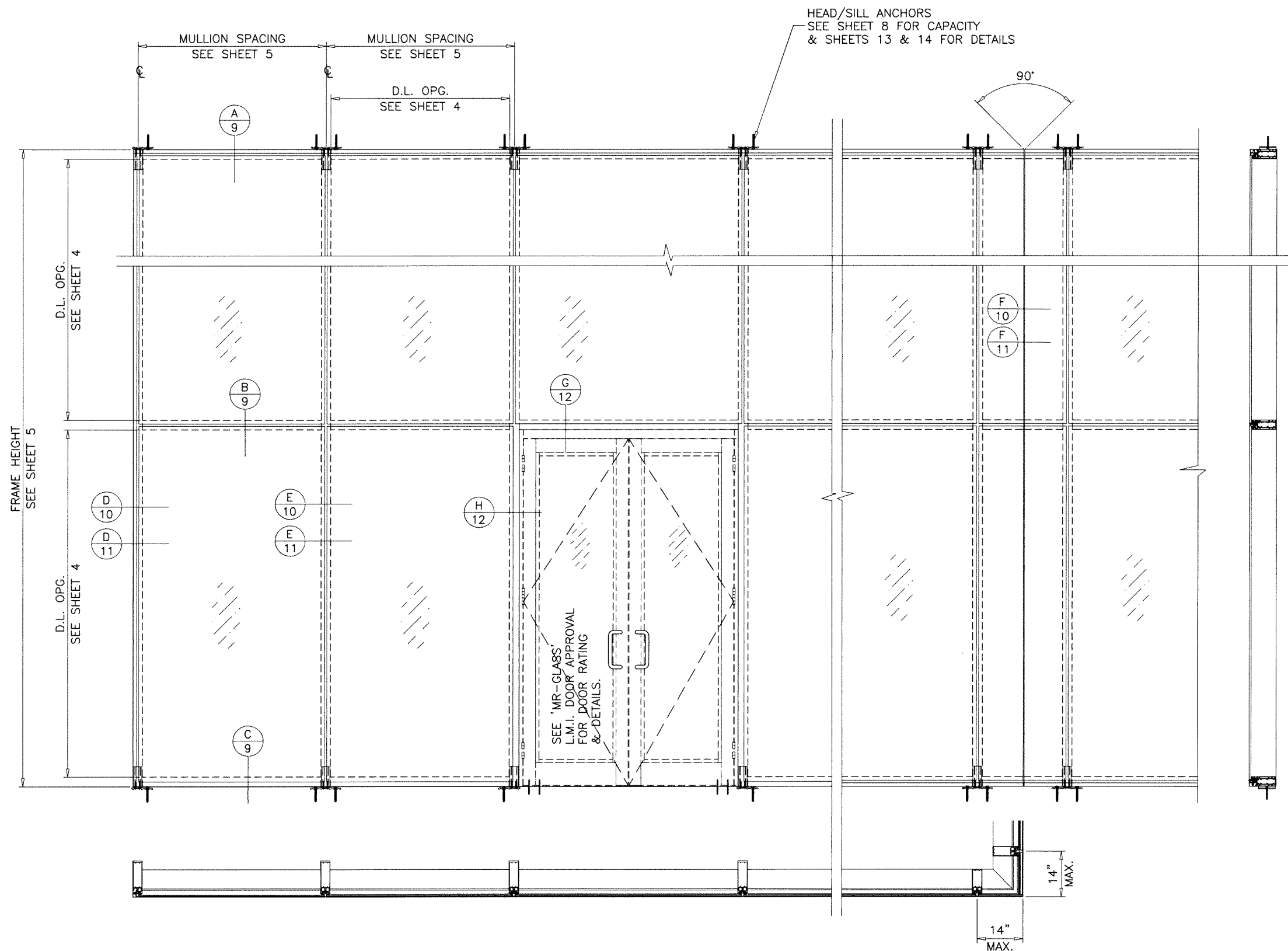
SERIES 2000 STICK ALUM. CURTAIN WALL SYS. (L.M.I.)

MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC  
8051 N.W. 79th Place  
Medley, FL. 33166  
Tel. (305) 764-3963 Fax. (305) 470-8285

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

COMP-ANL\19-18F-MG

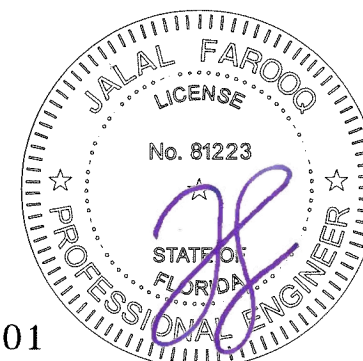
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A	12.04.19	NEW TESTS ADDED		B	07.22.20	UPDATED TO 2020 FBC		C	08.12.22	NEW TEST ADDED		D	01.23.23
										DECORATIVE CAP OPTION ADDED			
										UPDATED TO 2023 FBC			



**TYPICAL ELEVATION**  
SINGLE SPANS

Sealed: 7/21/2023

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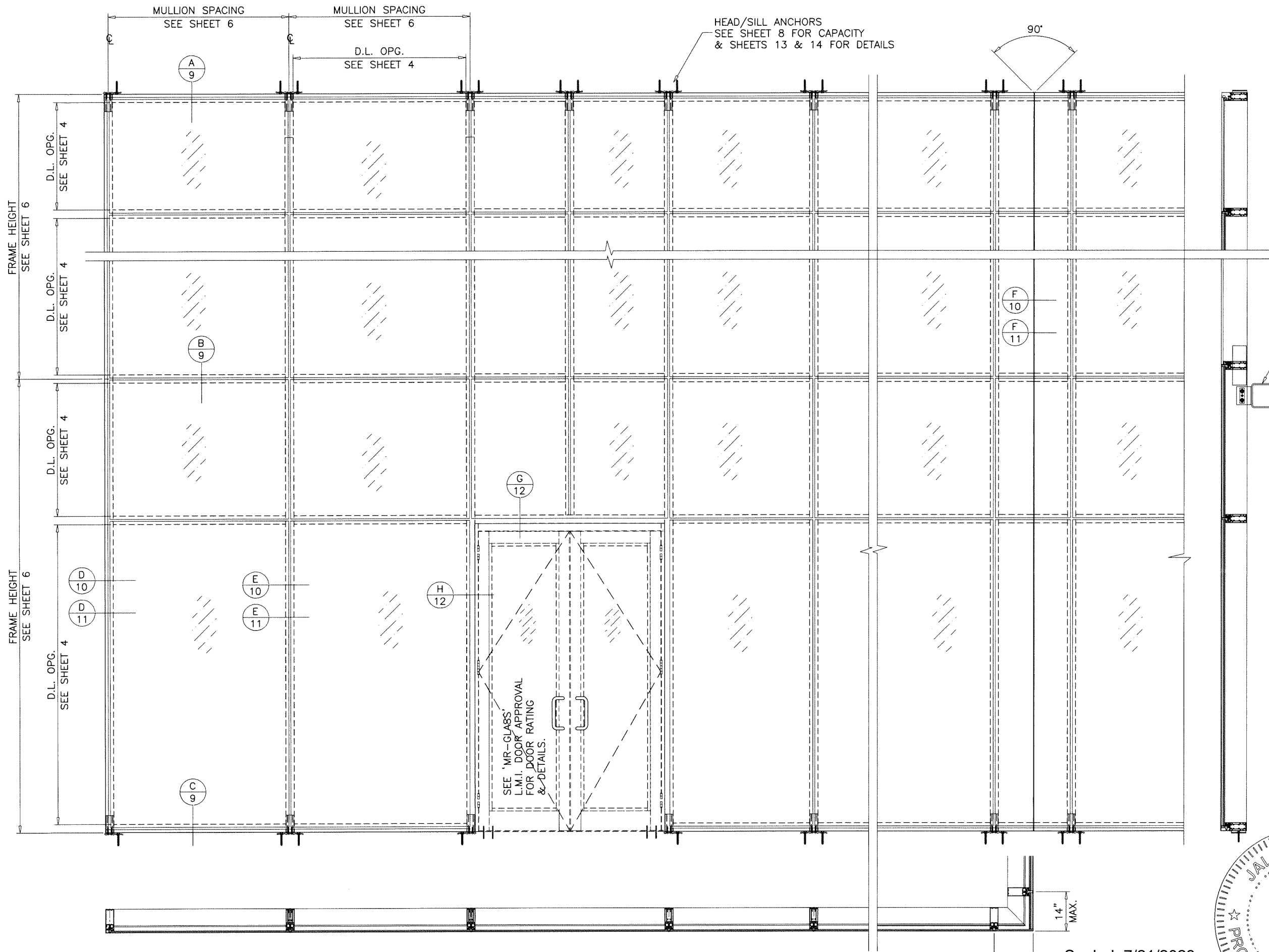
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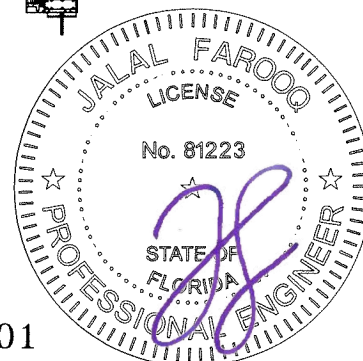
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sheet	2 of 21



TYPICAL ELEVATION  
TWIN SPANS

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FL #27401

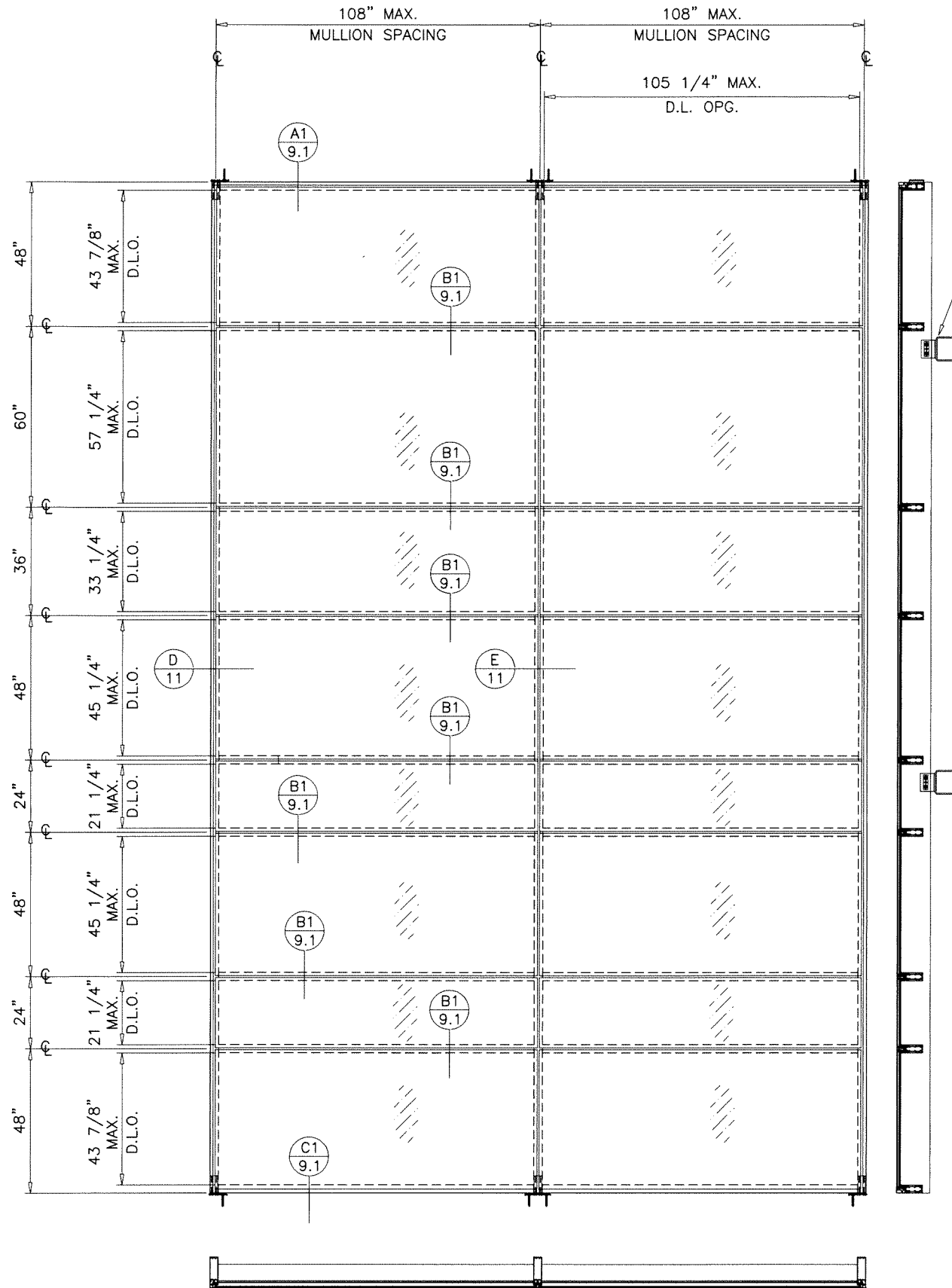


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COMP-ANL 19-18F-MG







INTERMEDIATE  
ANCHORS  
SEE SHEETS  
15 THRU 18



Sealed: 7/21/2023

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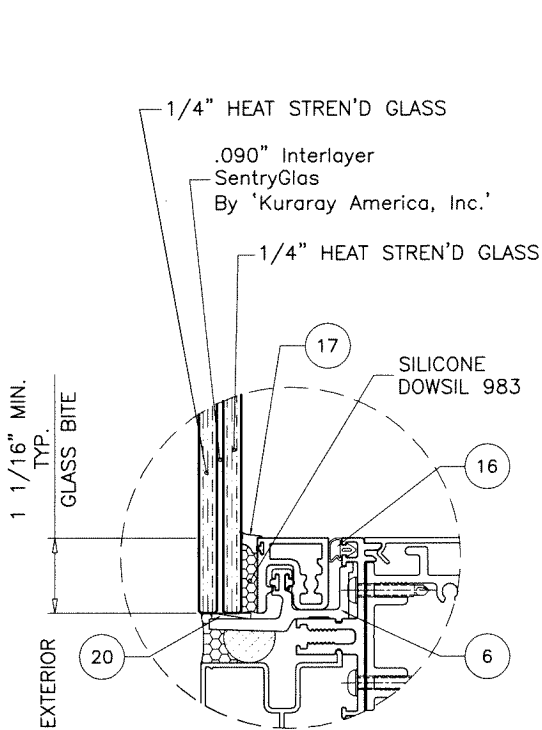
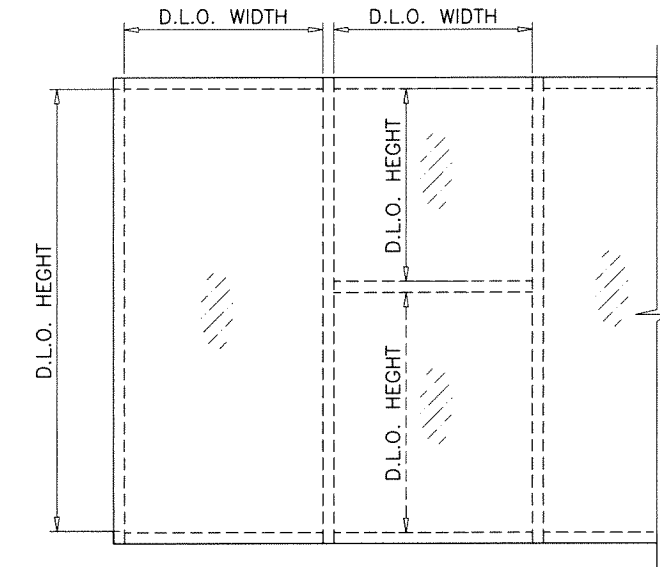
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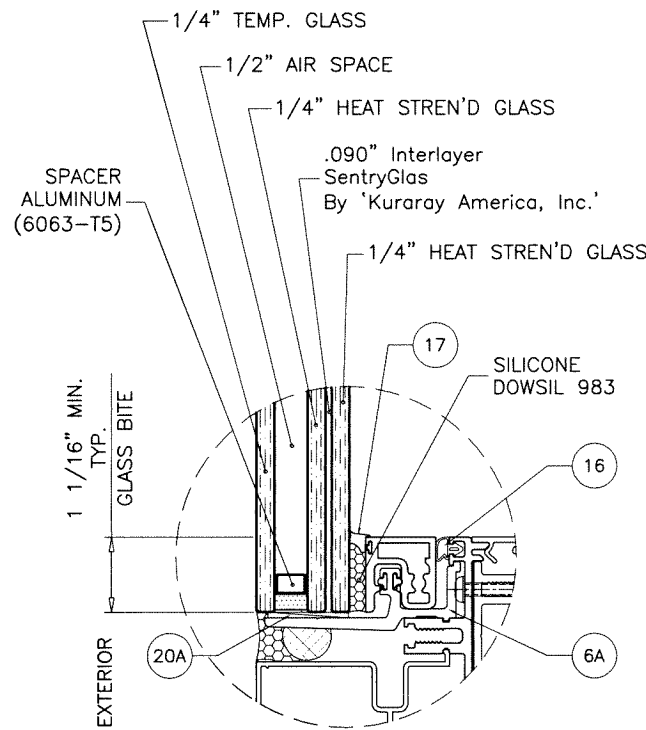
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**19-18F**  
sheet 3.2 of 21

GLASS DESIGN LOAD CAPACITY - PSF			
NOMINAL DIMS.		GLASS TYPES 'A' & 'Ai'	
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+)	INT. (-)
33-1/4"	84-1/2"	90.0	100.0
39-1/4"		90.0	100.0
45-1/4"		90.0	100.0
51-1/4"		90.0	100.0
57-1/4"		90.0	100.0
63-1/4"		90.0	100.0
69-1/4"		90.0	100.0
33-1/4"	90-1/2"	90.0	100.0
39-1/4"		90.0	100.0
45-1/4"		90.0	100.0
51-1/4"		90.0	100.0
57-1/4"		90.0	90.0
63-1/4"		81.8	81.8
69-1/4"		75.0	75.0
33-1/4"	102-1/2"	90.0	100.0
39-1/4"		90.0	100.0
45-1/4"		90.0	100.0
51-1/4"		90.0	100.0
57-1/4"		90.0	90.0
63-1/4"		81.8	81.8
33-1/4"	114-1/2"	90.0	100.0
39-1/4"		90.0	100.0
45-1/4"		90.0	100.0
51-1/4"		90.0	98.3
57-1/4"		90.0	90.0
33-1/4"	120-1/2"	90.0	100.0
39-1/4"		90.0	100.0
45-1/4"		90.0	100.0
51-1/4"		90.0	97.0
57-1/4"		90.0	90.0
33-1/4"	126-1/2"	90.0	100.0
39-1/4"		90.0	100.0
45-1/4"		90.0	100.0
51-1/4"		90.0	95.8
33-1/4"	132-1/2"	90.0	100.0
39-1/4"		90.0	100.0
45-1/4"		90.0	100.0
51-1/4"		90.0	94.7
33-1/4"	138-1/2"	90.0	100.0
39-1/4"		90.0	100.0
45-1/4"		90.0	100.0
33-1/4"	144-1/2"	90.0	100.0
39-1/4"		90.0	100.0
45-1/4"		90.0	100.0

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

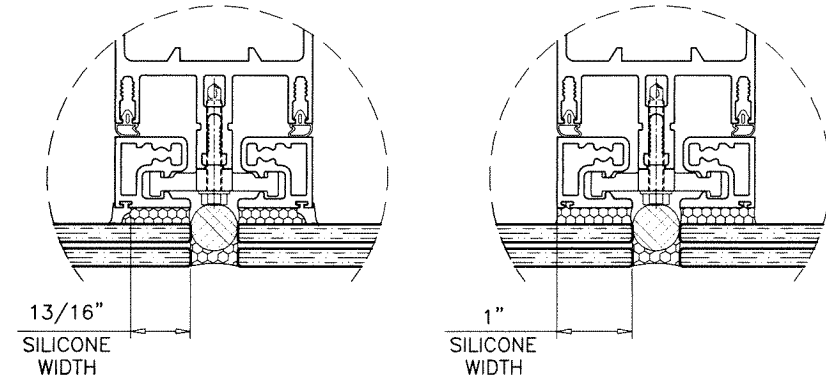


GLASS TYPE 'A'  
9/16" LAM. GLASS

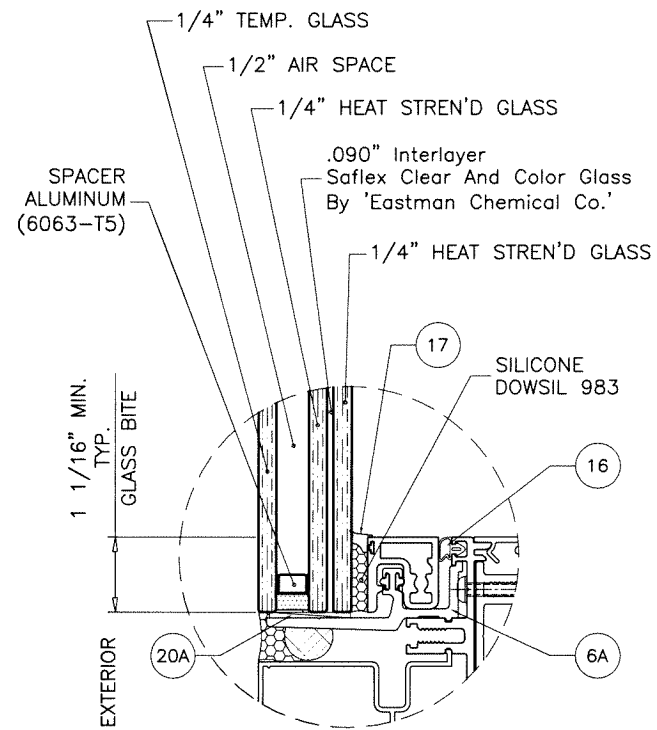


GLASS TYPE 'Ai'  
1-5/16" INSUL. LAM. GLASS

GLAZING OPTIONS



SILICONE CAPACITY - PSF		
D.L.O. WIDTH	SILICONE WIDTH	
	13/16"	1"
39-1/4"	100.0	100.0
45-1/4"	99.0	100.0
51-1/4"	88.0	100.0
57-1/4"	79.2	96.0
63-1/4"	72.0	87.3
69-1/4"	66.0	80.0



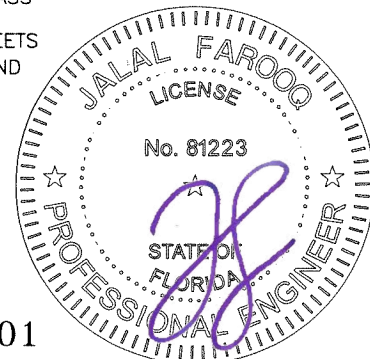
GLASS TYPE 'Bi'  
1-5/16" INSUL. LAM. GLASS

(SEE ELEVATIONS ON SHEETS  
3.1 & 3.2 FOR LIMITS AND  
DESIGN LOAD CAPACITY)

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

Sealed: 7/21/2023

FL #27401



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**19-18F**

sheet **4** of **21**

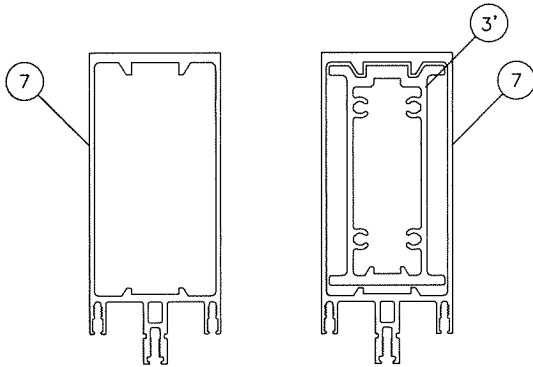
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COMP-ANL\19-18F-MG



MULLION DESIGN LOAD CAPACITY - PSF SINGLE SPANS					
NOMINAL DIMS.		JAMB 'J1' MULL 'M1'		JAMB 'J1' MULL 'M2'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
36"	96"	65.0	65.0	85.0	85.0
42"		65.0	65.0	85.0	85.0
48"		65.0	65.0	85.0	85.0
54"		65.0	65.0	85.0	85.0
60"		65.0	65.0	85.0	85.0
66"		65.0	65.0	85.0	85.0
72"		65.0	65.0	85.0	85.0
36"	108"	65.0	65.0	85.0	85.0
42"		65.0	65.0	85.0	85.0
48"		65.0	65.0	85.0	85.0
54"		65.0	65.0	85.0	85.0
60"		65.0	65.0	85.0	85.0
66"		65.0	65.0	85.0	85.0
72"		-	-	85.0	85.0
36"	120"	65.0	65.0	85.0	85.0
42"		65.0	65.0	85.0	85.0
48"		65.0	65.0	85.0	85.0
54"		65.0	65.0	85.0	85.0
60"		65.0	65.0	85.0	85.0
66"		-	-	85.0	85.0
72"		-	-	85.0	85.0
36"	132"	65.0	65.0	85.0	85.0
42"		65.0	65.0	85.0	85.0
48"		65.0	65.0	85.0	85.0
54"		64.7	64.7	85.0	85.0
60"		-	-	85.0	85.0
36"	138"	65.0	65.0	85.0	85.0
42"		65.0	65.0	85.0	85.0
48"		65.0	65.0	85.0	85.0
54"		-	-	85.0	85.0
56"		-	-	85.0	85.0
36"	144"	65.0	65.0	85.0	85.0
42"		65.0	65.0	85.0	85.0
48"		58.5	58.5	85.0	85.0
54"		-	-	80.5	80.5
36"	150"	65.0	65.0	65.0	65.0
42"		59.2	59.2	65.0	65.0
48"		51.8	51.8	65.0	65.0

INTERPOLATION BETWEEN WIDTHS ALLOWED.



JAMB 'J1'  
MULLION 'M1'

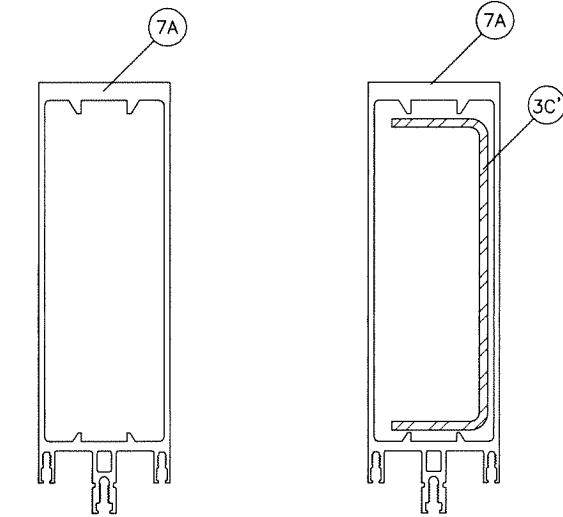
Ix	IN <sup>4</sup>	Sx	IN <sup>3</sup>
13.52		3.96	

MULLION 'M2'

Ix	IN <sup>4</sup>	Sx	IN <sup>3</sup>
20.92		6.13	

MULLION DESIGN LOAD CAPACITY - PSF SINGLE SPANS					
NOMINAL DIMS.		JAMB 'J2' MULL 'M4'		JAMB 'J2' MULL 'M6'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
36"	120"	75.0	75.0	80.0	90.0
42"		75.0	75.0	80.0	90.0
48"		75.0	75.0	80.0	90.0
54"		75.0	75.0	80.0	90.0
60"		75.0	75.0	80.0	90.0
66"		75.0	75.0	80.0	90.0
72"		75.0	75.0	80.0	90.0
36"	132"	75.0	75.0	80.0	90.0
42"		75.0	75.0	80.0	90.0
48"		75.0	75.0	80.0	90.0
54"		75.0	75.0	80.0	90.0
60"		75.0	75.0	80.0	90.0
66"		75.0	75.0	80.0	90.0
72"		75.0	75.0	80.0	90.0
36"	144"	75.0	75.0	80.0	90.0
42"		75.0	75.0	80.0	90.0
48"		75.0	75.0	80.0	90.0
54"		75.0	75.0	80.0	90.0
60"		75.0	75.0	80.0	90.0
66"		75.0	75.0	80.0	90.0
72"		75.0	75.0	80.0	90.0
36"	156"	75.0	75.0	80.0	90.0
42"		75.0	75.0	80.0	90.0
48"		75.0	75.0	80.0	90.0
54"		75.0	75.0	80.0	90.0
60"		75.0	75.0	80.0	90.0
66"		75.0	75.0	80.0	90.0
72"		75.0	75.0	80.0	90.0
36"	168"	75.0	75.0	80.0	90.0
42"		75.0	75.0	80.0	90.0
48"		75.0	75.0	80.0	90.0
54"		75.0	75.0	80.0	90.0
60"		-	-	80.0	90.0
36"	180"	75.0	75.0	80.0	90.0
42"		75.0	75.0	80.0	90.0
48"		75.0	75.0	80.0	90.0
54"		73.3	73.3	80.0	90.0
60"		-	-	80.0	90.0
36"	192"	-	-	80.0	90.0
42"		-	-	80.0	90.0
48"		-	-	80.0	90.0
54"		-	-	80.0	90.0
60"		-	-	80.0	90.0
36"	204"	-	-	80.0	90.0
42"		-	-	80.0	90.0
48"		-	-	80.0	90.0
54"		-	-	80.0	80.0

INTERPOLATION BETWEEN WIDTHS ALLOWED.

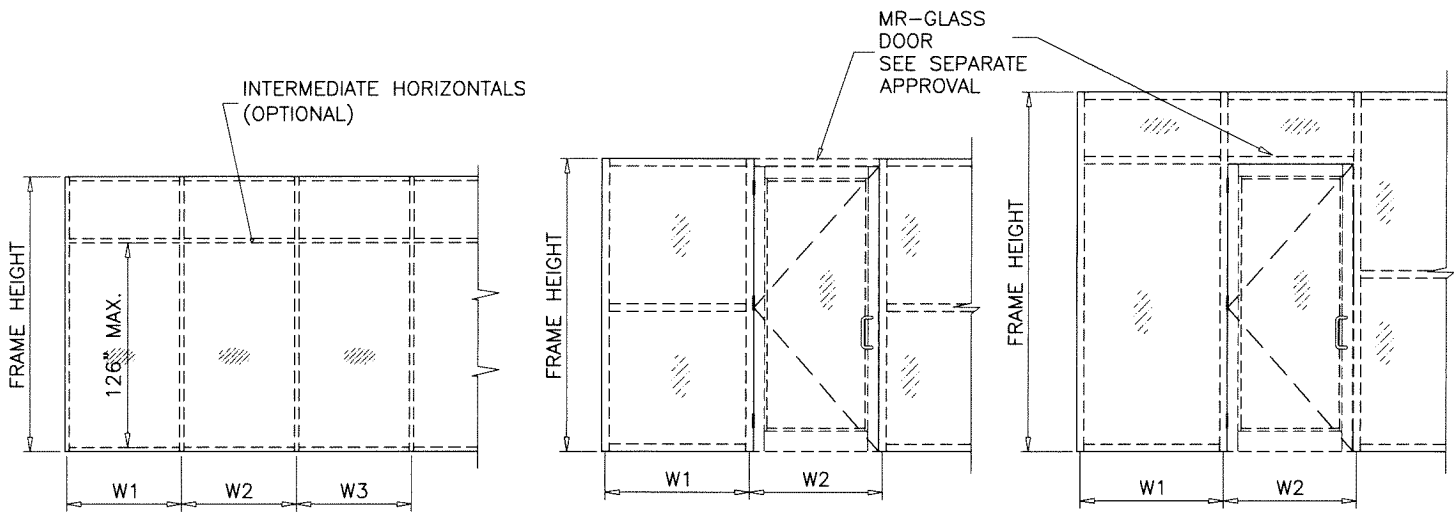


JAMB 'J2'  
MULLION 'M4'

Ix	IN <sup>4</sup>	Sx	IN <sup>3</sup>
41.55		8.36	

MULLION 'M6'

	Ix	IN <sup>4</sup>	Sx	IN <sup>3</sup>
ALUMINUM	41.55		8.36	
STEEL	10.18		3.13	
TOTAL	71.1			
Ix ALUM + Ix STL X 2.9				



$$\text{WIDTH (W)} = \text{W1}$$

AT JAMB

$$\text{WIDTH (W)} = \frac{\text{W2} + \text{W3}}{2}$$

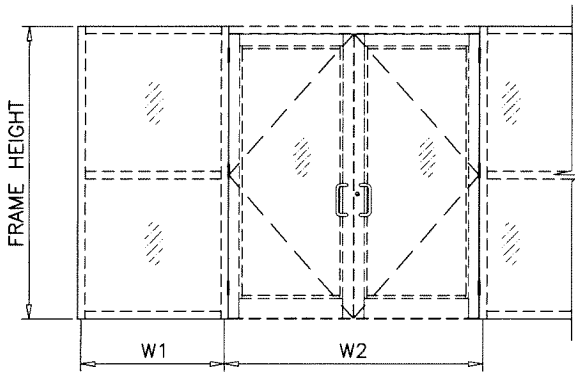
AT MULLION

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

AT MULLION

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

AT MULLION



$$\text{WIDTH (W)} = \frac{\text{W1}}{2} + \frac{\text{W2}}{4}$$

AT MULLION

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**19-18F**  
sheet 5 of 21

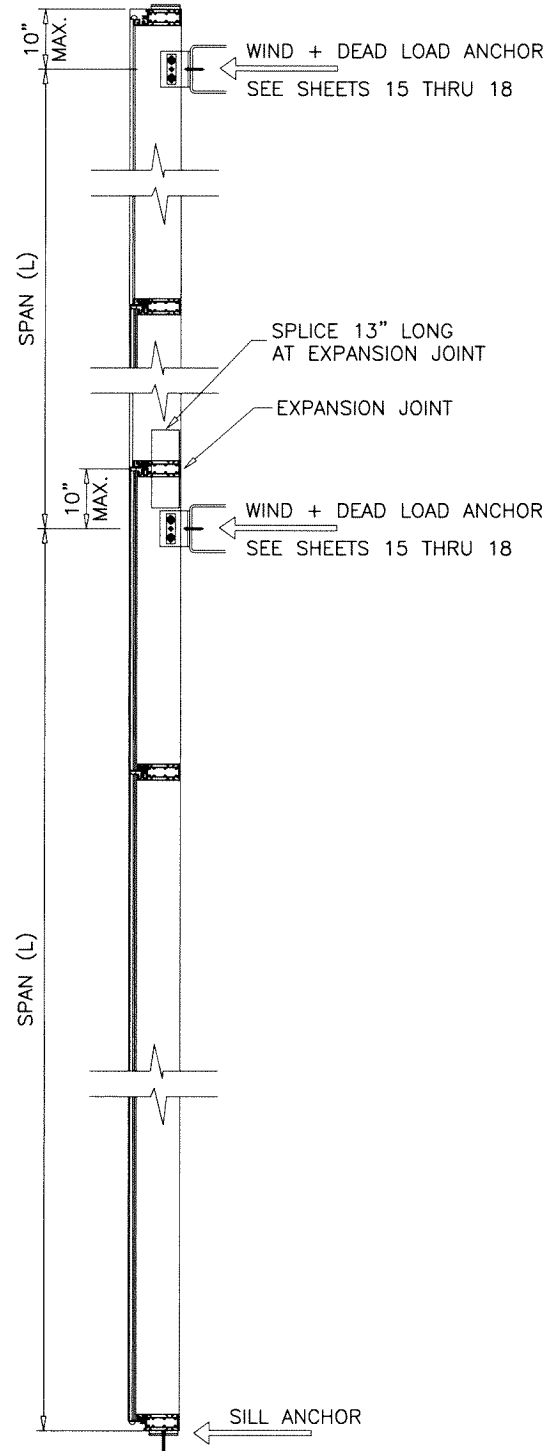
MULLION DESIGN LOAD CAPACITY - PSF  
EQUAL LENGTHS TWO OR MULTIPLE SPANS

NOMINAL DIMS.		JAMB 'J1' MULL 'M2'	
WIDTH (W)	SPAN (L)	EXT.(+)	INT.(-)
36"	96"	85.0	85.0
42"		85.0	85.0
48"		85.0	85.0
54"		85.0	85.0
60"		85.0	85.0
66"		85.0	85.0
72"		85.0	85.0
36"	108"	85.0	85.0
42"		85.0	85.0
48"		85.0	85.0
54"		85.0	85.0
60"		85.0	85.0
66"		85.0	85.0
72"		85.0	85.0
36"	120"	85.0	85.0
42"		85.0	85.0
48"		85.0	85.0
54"		85.0	85.0
60"		85.0	85.0
66"		85.0	85.0
72"		85.0	85.0
36"	132"	85.0	85.0
42"		85.0	85.0
48"		85.0	85.0
54"		85.0	85.0
60"		85.0	85.0
66"		85.0	85.0
72"		85.0	85.0
36"	144"	85.0	85.0
42"		85.0	85.0
48"		85.0	85.0
54"		85.0	85.0
60"		85.0	85.0
66"		85.0	85.0
72"		85.0	85.0

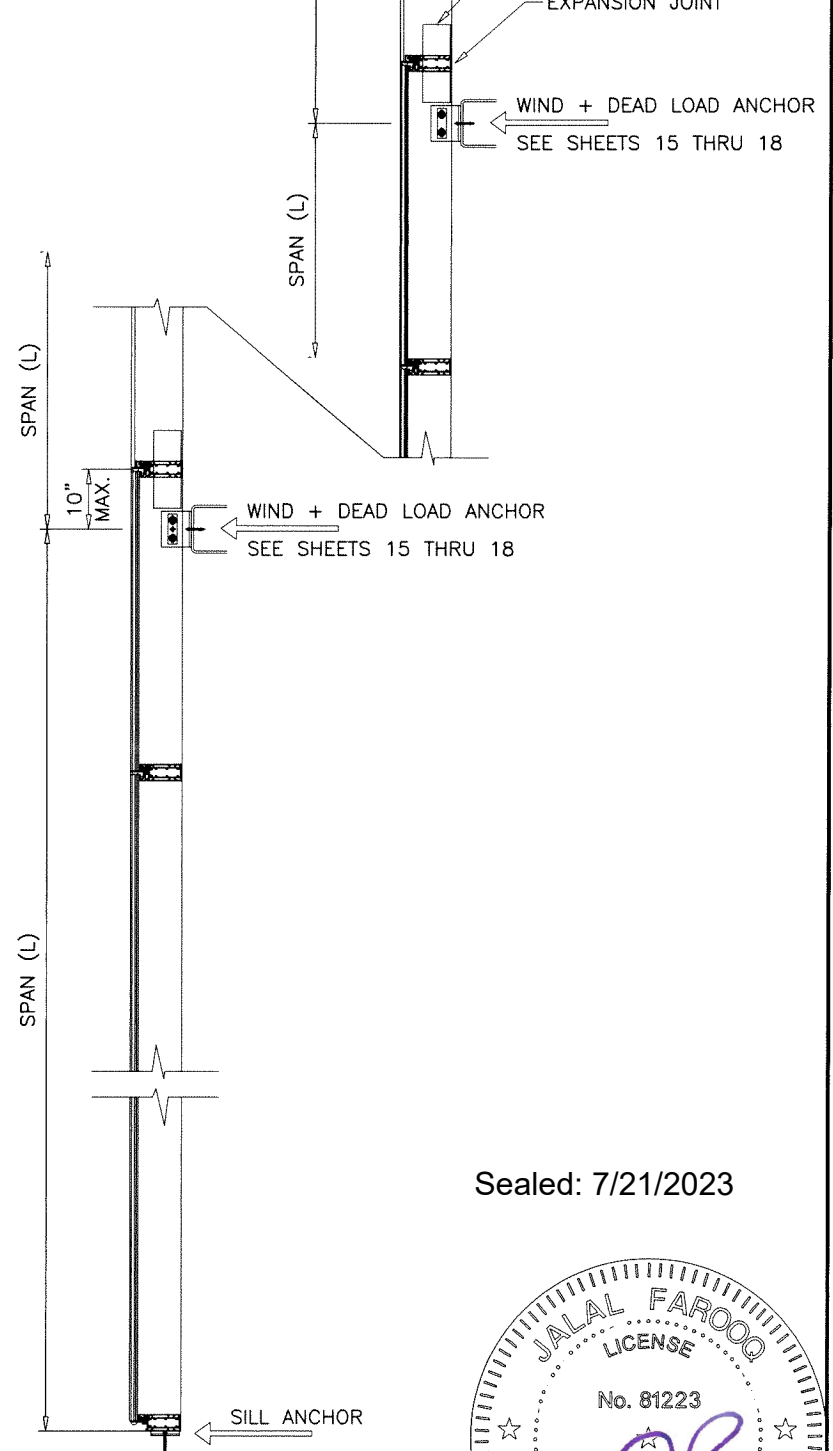
INTERPOLATION BETWEEN WIDTHS ALLOWED.

MULLION DESIGN LOAD CAPACITY - PSF EQUAL LENGTHS TWO OR MULTIPLE SPANS							
NOMINAL DIMS.		JAMB 'J2' MULL 'M4'		JAMB 'J2' MULL 'M6'			
WIDTH (W)	SPAN (L)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)		
36"	120"	75.0	75.0	80.0	90.0		
42"		75.0	75.0	80.0	90.0		
48"		75.0	75.0	80.0	90.0		
54"		75.0	75.0	80.0	90.0		
60"		75.0	75.0	80.0	90.0		
66"		75.0	75.0	80.0	90.0		
72"		75.0	75.0	80.0	90.0		
36"	132"	75.0	75.0	80.0	90.0		
42"		75.0	75.0	80.0	90.0		
48"		75.0	75.0	80.0	90.0		
54"		75.0	75.0	80.0	90.0		
60"		75.0	75.0	80.0	90.0		
66"		75.0	75.0	80.0	90.0		
72"		75.0	75.0	80.0	90.0		
36"	144"	75.0	75.0	80.0	90.0		
42"		75.0	75.0	80.0	90.0		
48"		75.0	75.0	80.0	90.0		
54"		75.0	75.0	80.0	90.0		
60"		75.0	75.0	80.0	90.0		
66"		75.0	75.0	80.0	90.0		
72"		75.0	75.0	80.0	90.0		
36"	156"	75.0	75.0	80.0	90.0		
42"		75.0	75.0	80.0	90.0		
48"		75.0	75.0	80.0	90.0		
54"		75.0	75.0	80.0	90.0		
60"		75.0	75.0	80.0	90.0		
66"		75.0	75.0	80.0	90.0		
72"		75.0	75.0	80.0	90.0		
36"	168"	75.0	75.0	80.0	90.0		
42"		75.0	75.0	80.0	90.0		
48"		75.0	75.0	80.0	90.0		
54"		75.0	75.0	80.0	90.0		
60"		75.0	75.0	80.0	90.0		
66"		75.0	75.0	80.0	90.0		
72"		75.0	75.0	80.0	90.0		
36"	180"	75.0	75.0	80.0	90.0		
42"		75.0	75.0	80.0	90.0		
48"		75.0	75.0	80.0	90.0		
54"		73.3	73.3	80.0	90.0		
60"		-	-	80.0	90.0		
66"		-	-	80.0	90.0		
72"		-	-	80.0	90.0		
36"	192"	-	-	80.0	90.0		
42"		-	-	80.0	90.0		
48"		-	-	80.0	90.0		
54"		-	-	80.0	90.0		
60"		-	-	80.0	90.0		
66"		-	-	80.0	90.0		
72"		-	-	80.0	90.0		
36"	204"	-	-	80.0	90.0		
42"		-	-	80.0	90.0		
48"		-	-	80.0	90.0		
54"		-	-	80.0	90.0		
60"		-	-	80.0	90.0		
66"		-	-	80.0	90.0		
72"		-	-	80.0	90.0		

INTERPOLATION BETWEEN WIDTHS ALLOWED.



TWO SPANS



MULTIPLE SPANS

NOTE:  
UNEQUAL SPANS TO BE CHECKED ON JOB TO JOB BASIS.

Sealed: 7/21/2023



FL #27401

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\19-18F-MG

**af c**

SERIES 2000 STICK ALUM. CURTAIN WALL SYS. (L.M.I.)

**MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC**  
8051 N.W. 79th Place  
Medley, FL. 33166  
Tel. (305) 764-3963 Fax. (305) 470-8285

revisions:  
no date by description

date: 03-15-19 scale: - dr. by: TARIQ chk. by:

drawing no.  
**19-18F**

sheet 5.1 of 21



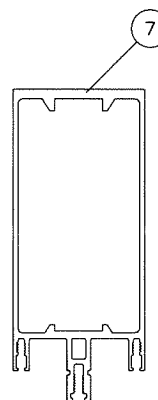
## MULLION DESIGN LOAD CAPACITY - PSF TWO SPANS & MULTIPLE SPANS

NOMINAL DIMS.		JAMB 'J1' MULL 'M6'	
WIDTH (W)	SPAN (L)	EXT.(+)	INT.(-)
42"	120"	90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
60"		90.0	90.0
42"	126"	90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
60"		90.0	90.0
42"	132"	90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
60"		90.0	90.0
42"	144"	90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
60"		86.0	86.0

INTERPOLATION BETWEEN WIDTHS ALLOWED.

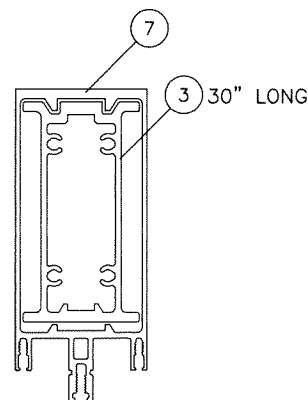
MULLION DESIGN LOAD CAPACITY - PSF  
TWO SPANS & MULTIPLE SPANS

NOMINAL DIMS.		JAMB 'J2' MULL 'M4'	
WIDTH (W)	SPAN (L)	EXT.(+)	INT.(−)
42"	120"	90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
60"		90.0	90.0
42"	126"	90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
60"		90.0	90.0
42"	132"	90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
60"		90.0	90.0
42"	144"	90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
60"		90.0	90.0



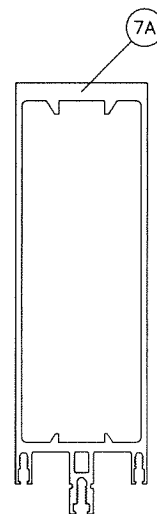
JAMB 'J1'

Ix IN <sup>4</sup>	Sx IN <sup>3</sup>
13.52	3.96



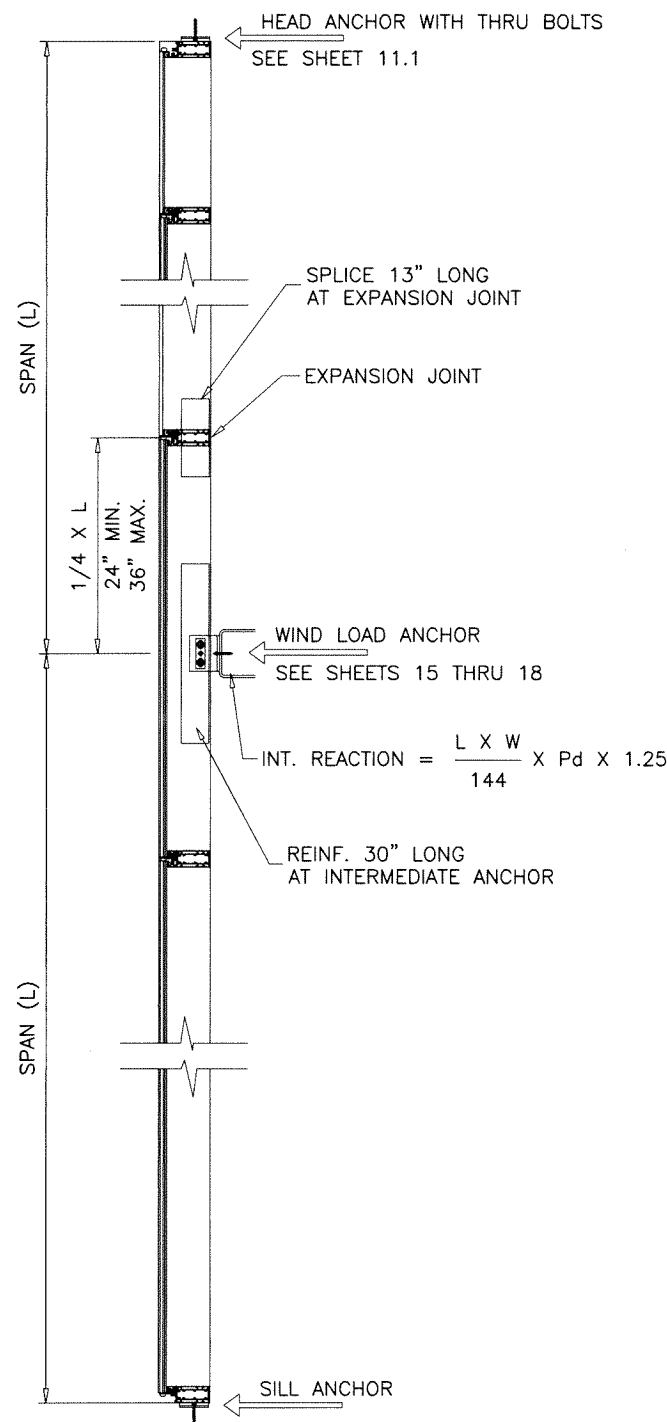
MULLION 'M6'

Ix IN <sup>4</sup>	Sx IN <sup>3</sup>
20.92	6.13

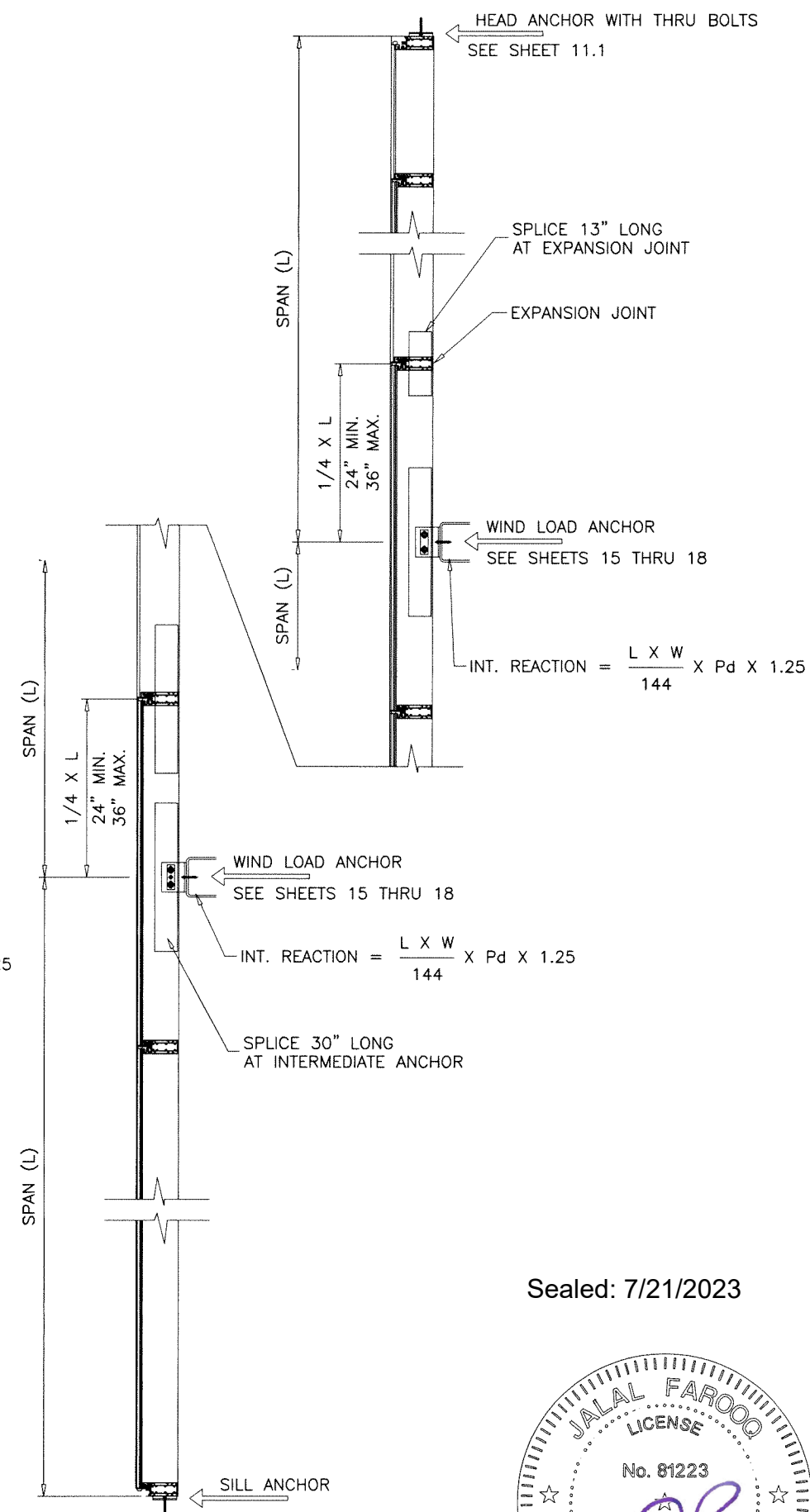


JAMB 'J2'  
MULLION 'M4'

Ix IN <sup>4</sup>	Sx IN <sup>3</sup>
41.55	8.36



## TWO SPANS WITH EXPANSION JOINTS



### MULTIPLE SPANS WITH EXPANSION JOINTS

NOTE:  
UNEQUAL SPANS TO BE CHECKED ON JOB TO JOB BASIS.

Sealed: 7/21/2023



FL #27401

**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

**SERIES 2000 STICK ALUM. CURTAIN WALL SYS. (L.M.I.)**

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**MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC**  
8051 N.W. 79th Place  
Medley, FL. 33166  
Tel. (305) 764-3963 Fax. (305) 470-8285

date: 03-15-19	revisions:	
scale: -	no	date by description
dr. by: TARIQ		
chk. by:		
drawing no.		
19-18F		
sheet 6 of 21		

MULLION DESIGN LOAD CAPACITY - PSF TWO SPANS & MULTIPLE SPANS			
NOMINAL DIMS.		JAMB 'J1' MULL 'M6'	
WIDTH (W)	SPAN (L)	EXT.(+)	INT.(-)
42"	120"	90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
60"		90.0	90.0
42"	126"	90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
60"		90.0	90.0
42"	132"	90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
60"		90.0	90.0
42"	144"	90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
60"		86.0	86.0

MULLION DESIGN LOAD CAPACITY - PSF TWO SPANS & MULTIPLE SPANS			
NOMINAL DIMS.		JAMB 'J2' MULL 'M4'	
WIDTH (W)	SPAN (L)	EXT.(+)	INT.(-)
42"	120"	90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
60"		90.0	90.0
42"	126"	90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
60"		90.0	90.0
42"	132"	90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
60"		90.0	90.0
42"	144"	90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
60"		90.0	90.0

INTERPOLATION BETWEEN WIDTHS ALLOWED.

JAMB 'J1'

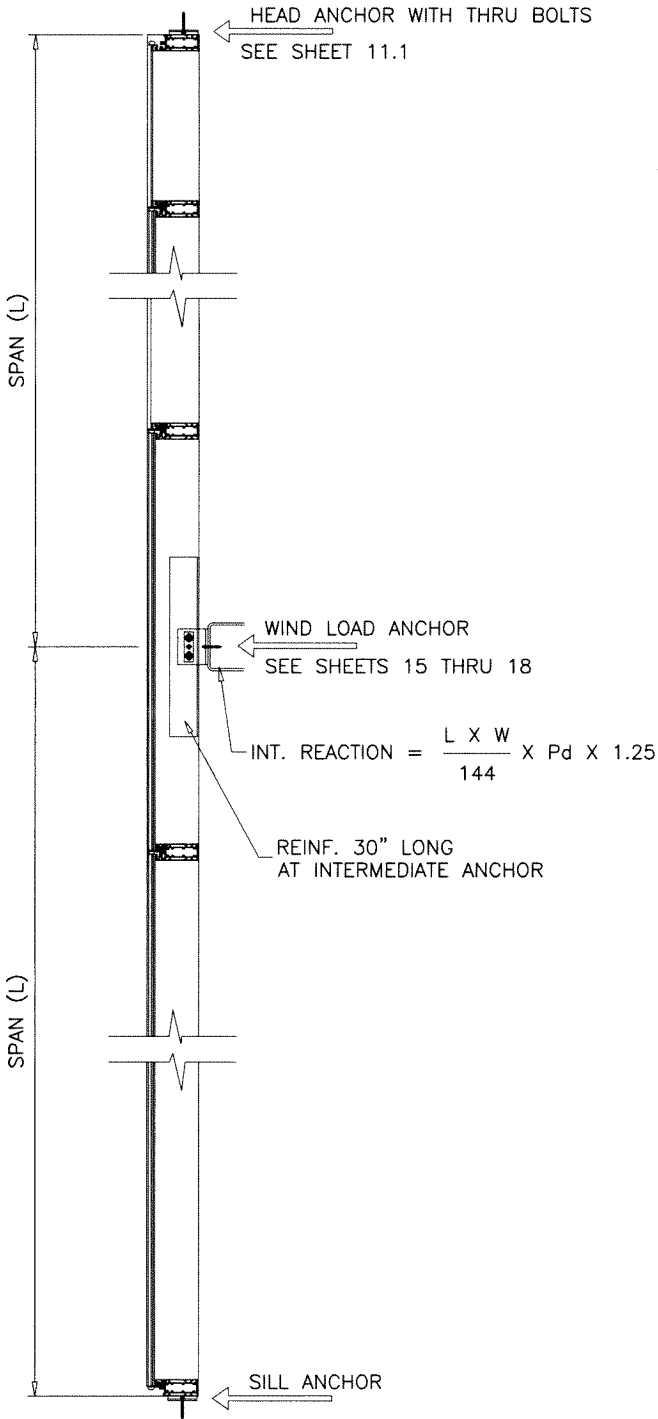
Ix	IN <sup>4</sup>	Sx	IN <sup>3</sup>
13.52		3.96	

MULLION 'M6'

Ix	IN <sup>4</sup>	Sx	IN <sup>3</sup>
20.92		6.13	

JAMB 'J2'

Ix	IN <sup>4</sup>	Sx	IN <sup>3</sup>
41.55		8.36	



TWO SPANS WITHOUT EXPANSION JOINTS

NOTE:  
UNEQUAL SPANS TO BE CHECKED ON JOB TO JOB BASIS.

Sealed: 7/21/2023

FL #27401



**AL-FAROOQ CORPORATION**  
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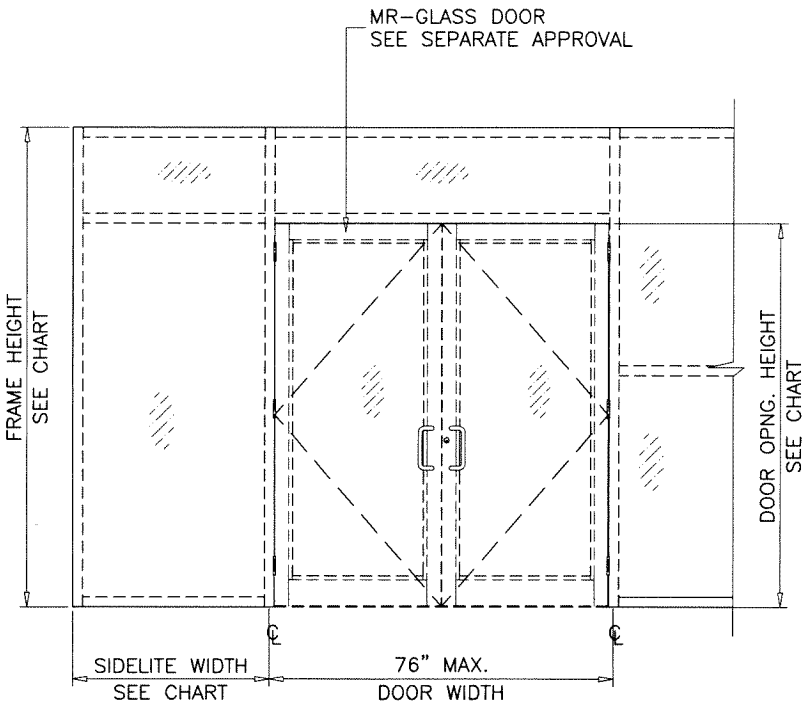
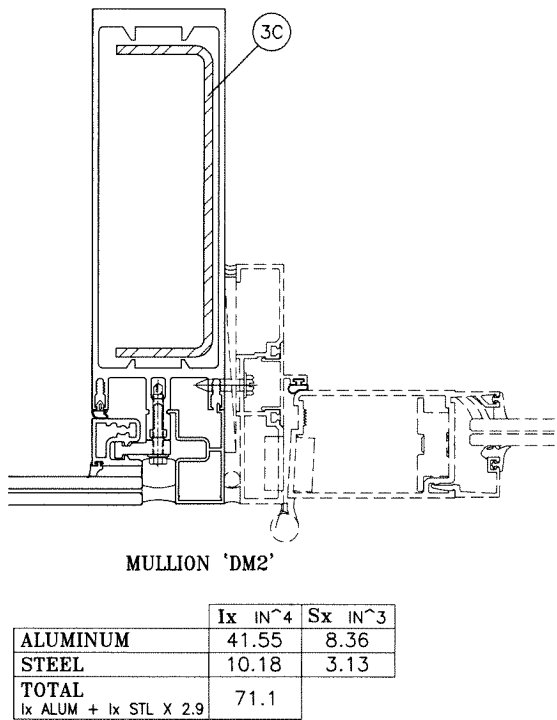
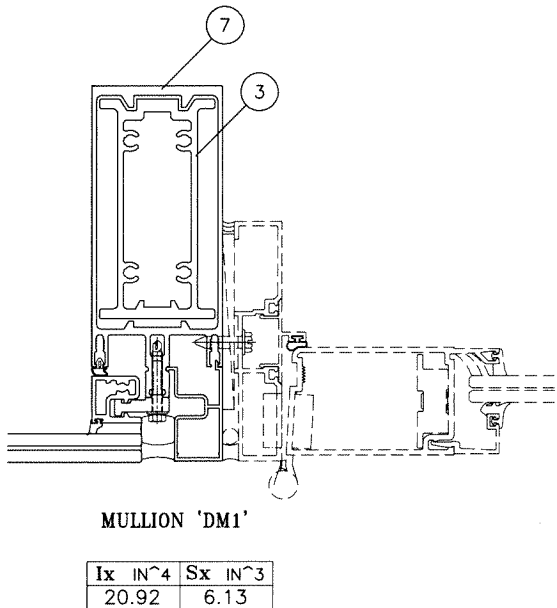
revisions:		by description	
no	date		

date: 03-15-19	scale: -	dr. by: TARIQ	chk. by:
drawing no.		19-18F	
sheet 6.1 of 21			

COMP-ANL\19-18F-MG

DOOR MULLION LOAD CAPACITY - PSF						
NOMINAL DIMS.			MULL 'DM1'		MULL 'DM2'	
SIDELITE WIDTH INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+)	INT.(−)	EXT.(+)	INT.(−)
36	120	84	85.0	85.0	80.0	90.0
42			85.0	85.0	80.0	90.0
48			85.0	85.0	80.0	90.0
54			85.0	85.0	80.0	90.0
60			85.0	85.0	80.0	90.0
36	144		82.7	82.7	80.0	90.0
42			78.5	78.5	80.0	90.0
48			74.7	74.7	80.0	90.0
54			71.2	71.2	80.0	90.0
60			68.0	68.0	80.0	90.0
36	156		—	—	80.0	90.0
42			—	—	80.0	90.0
48			—	—	80.0	90.0
54			—	—	80.0	90.0
60			—	—	80.0	90.0
36	168		—	—	80.0	90.0
42			—	—	80.0	90.0
48			—	—	80.0	90.0
54			—	—	80.0	90.0
60			—	—	80.0	90.0
36	174		—	—	80.0	90.0
42			—	—	80.0	90.0
48			—	—	80.0	90.0
54			—	—	80.0	90.0
36	120	90	85.0	85.0	80.0	90.0
42			85.0	85.0	80.0	90.0
48			85.0	85.0	80.0	90.0
54			85.0	85.0	80.0	90.0
60			85.0	85.0	80.0	90.0
36	144		83.7	83.7	80.0	90.0
42			79.4	79.4	80.0	90.0
48			75.5	75.5	80.0	90.0
54			71.9	71.9	80.0	90.0
60			68.7	68.7	80.0	90.0
36	156		—	—	80.0	90.0
42			—	—	80.0	90.0
48			—	—	80.0	90.0
54			—	—	80.0	90.0
60			—	—	80.0	90.0
36	168		—	—	80.0	90.0
42			—	—	80.0	90.0
48			—	—	80.0	90.0
54			—	—	80.0	90.0
60			—	—	80.0	90.0
36	174		—	—	80.0	90.0
42			—	—	80.0	90.0
48			—	—	80.0	90.0
54			—	—	80.0	90.0

DOOR MULLION LOAD CAPACITY – PSF						
NOMINAL DIMS.			MULL 'DM1'		MULL 'DM2'	
SIDELITE WIDTH INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
36	120	98	85.0	85.0	80.0	90.0
42			85.0	85.0	80.0	90.0
48			85.0	85.0	80.0	90.0
54			85.0	85.0	80.0	90.0
60			85.0	85.0	80.0	90.0
36	144		85.0	85.0	80.0	90.0
42			81.2	81.2	80.0	90.0
48			77.1	77.1	80.0	90.0
54			73.4	73.4	80.0	90.0
60			70.1	70.1	80.0	90.0
36	156		–	–	80.0	90.0
42			–	–	80.0	90.0
48			–	–	80.0	90.0
54			–	–	80.0	90.0
60			–	–	80.0	90.0
36	168		–	–	80.0	90.0
42			–	–	80.0	90.0
48			–	–	80.0	90.0
54			–	–	80.0	90.0
60			–	–	80.0	90.0
36	174		–	–	80.0	90.0
42			–	–	80.0	90.0
48			–	–	80.0	90.0
54			–	–	80.0	90.0



Sealed: 7/21/2023

FL #27401



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revisions:  
no date by description

date: 03-15-19  
scale: -  
dr. by: TARIQ  
chk. by:

drawing no.  
**19-18F**  
sheet 7 of 21



HEAD/SILL ANCHOR DESIGN LOAD CAPACITY – PSF EXT.(+) & INT.(–)									
NOMINAL DIMS.		ANCHOR TYPE 'A'			ANCHOR TYPE 'B'				ANCHOR TYPE 'C'
		'F' CLIP INTO CONC.	'T' CLIP INTO CONC.		'JAMB PLATE' INTO CONC.		'MULLION PLATE' INTO CONC.		'F' CLIP, 'T' CLIP 'JAMB, MULLION PLATE'
WIDTH (W)	FRAME HEIGHT	4000 PSI	4000 PSI	6000 PSI	4000 PSI	6000 PSI	4000 PSI	6000 PSI	
36"	126"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
54"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
66"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
72"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"	132"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
54"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
66"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"	144"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
54"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60"		100.0	92.0	100.0	100.0	100.0	100.0	100.0	100.0
66"		100.0	–	100.0	100.0	100.0	100.0	100.0	100.0
36"	156"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
54"		100.0	94.4	100.0	100.0	100.0	100.0	100.0	100.0
60"		100.0	84.9	100.0	100.0	100.0	100.0	100.0	100.0
66"		100.0	–	100.0	100.0	100.0	100.0	100.0	100.0
36"	168"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	98.6	100.0	100.0	100.0	100.0	100.0	100.0
54"		100.0	87.6	100.0	100.0	100.0	100.0	100.0	100.0
60"		100.0	78.9	96.0	100.0	100.0	94.3	100.0	100.0
66"		100.0	–	–	100.0	100.0	–	100.0	100.0
36"	180"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	92.0	100.0	100.0	100.0	100.0	100.0	100.0
54"		100.0	81.8	99.6	100.0	100.0	97.8	100.0	100.0
60"		100.0	69.0	84.0	90.0	100.0	82.5	100.0	100.0
36"	192"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	98.6	100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	86.3	100.0	100.0	100.0	100.0	100.0	100.0
54"		100.0	76.7	93.3	100.0	100.0	91.7	100.0	100.0
36"	204"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	92.8	100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	81.2	98.8	100.0	100.0	97.1	100.0	100.0
54"		100.0	72.2	87.8	94.1	100.0	86.3	100.0	100.0

METAL STRUCTURE NOT BY 'MR-GLASS'  
MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM  
AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE SHEETS 13 & 14 FOR DETAILS

TYPE 'A'– 1/2" DIA. KWIK HUS-EZ ANCHOR BY 'HILTI'  
INTO 4000 OR 6000 PSI MIN. CONCRETE (SEE CHART)  
4–1/4" MIN. EMBED  
7" MIN. CENTERLINE–TO–CENTERLINE SPACING  
4–1/2" MIN. EDGE DISTANCE

TYPE 'B'– 1/2" DIA. KWIK HUS-EZ ANCHOR BY 'HILTI'  
INTO 4000 OR 6000 PSI MIN. CONCRETE (SEE CHART)  
4–1/4" MIN. EMBED  
5–3/4" MIN. CENTERLINE–TO–CENTERLINE SPACING  
5–1/2" MIN. EDGE DISTANCE


TYPE 'C'– 1/2" DIA. MACHINE SCREWS (GRADE 5 CRS)  
INTO STEEL STRUCTURES  
1/8" THK. MIN. (Fy = 36 KSI MIN.)  
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS  
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

NOTE:  
ANCHOR TORQUED AND OTHERWISE INSTALLED AS  
PER MANUFACTURER SPECIFICATIONS.



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(C.A.N. 3538)

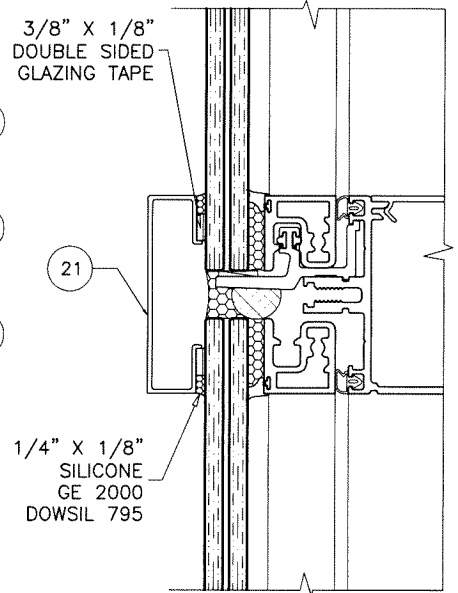
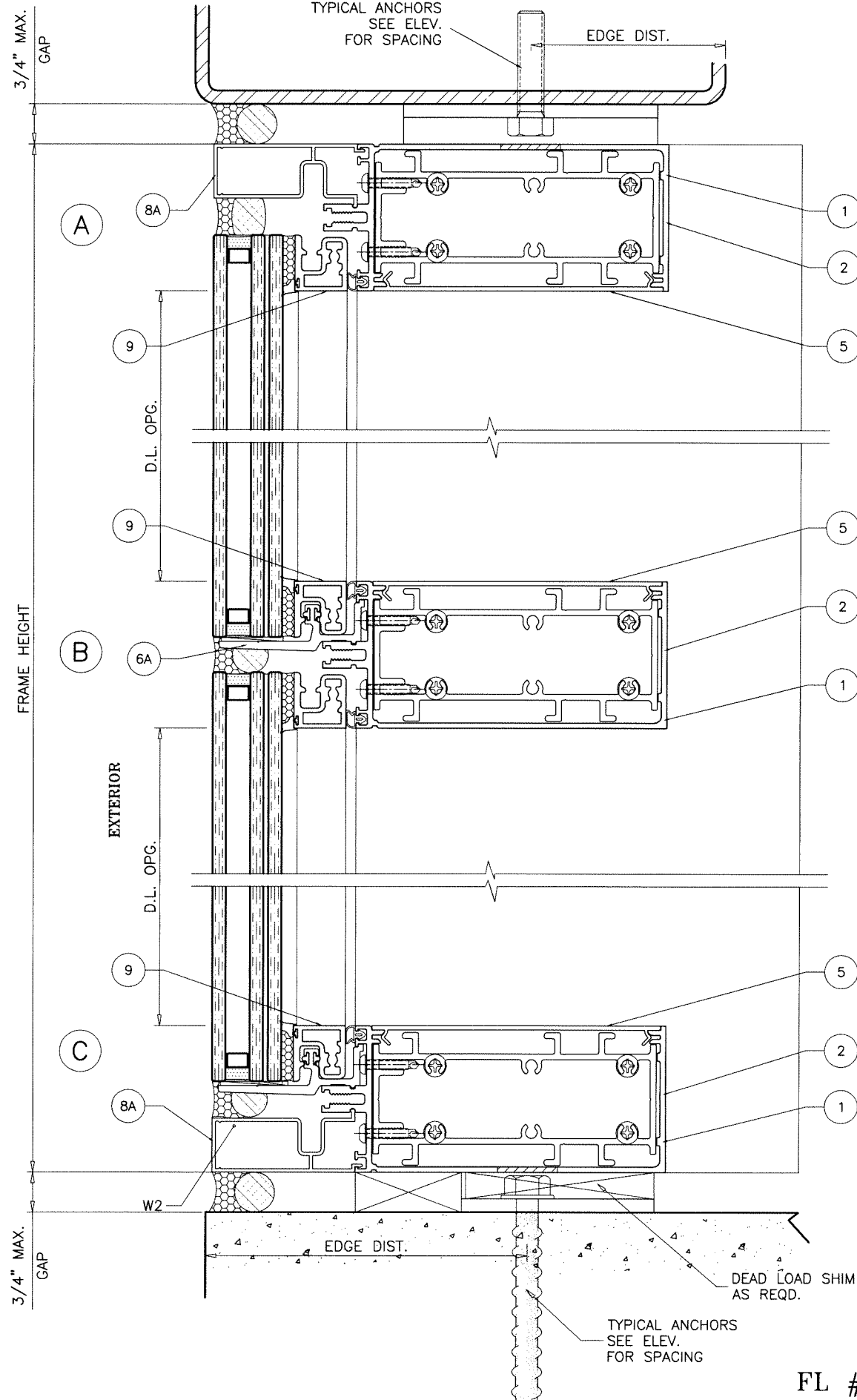
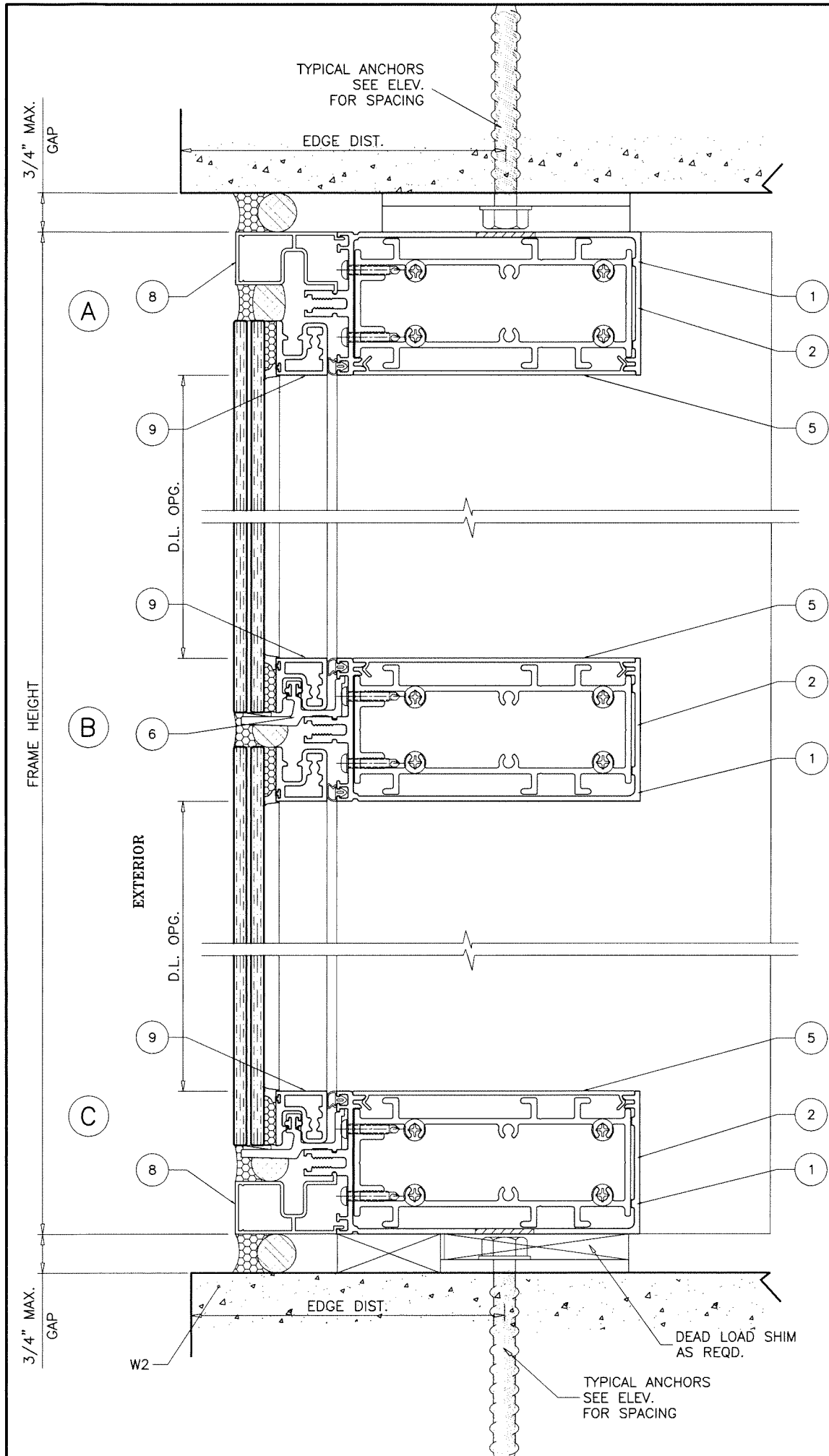
SERIES 2000 STICK ALUM. CURTAIN WALL SYS. (L.M.I.)

**MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC**  
8051 N.W. 79th Place  
Medley, FL. 33166  
Tel. (305) 764-3963 Fax. (305) 470-8285

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dr. by:	TARIQ
chk. by:	

drawing no.
19–18F
sheet 8 of 21



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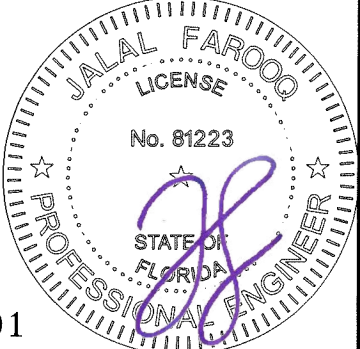
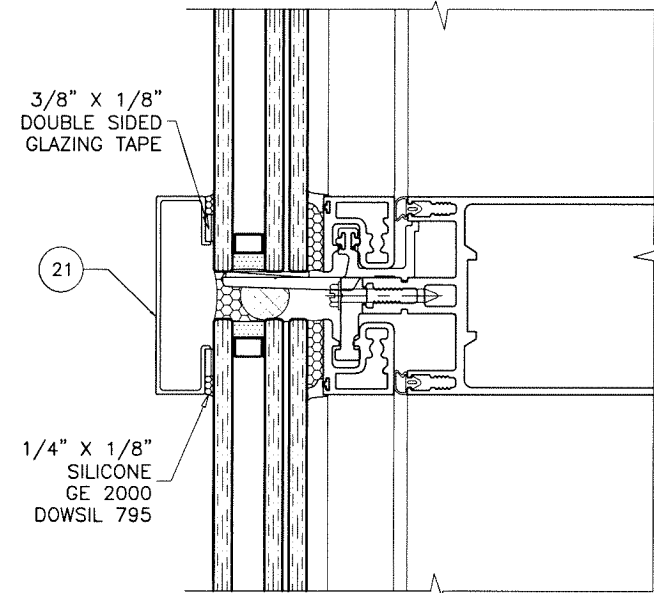
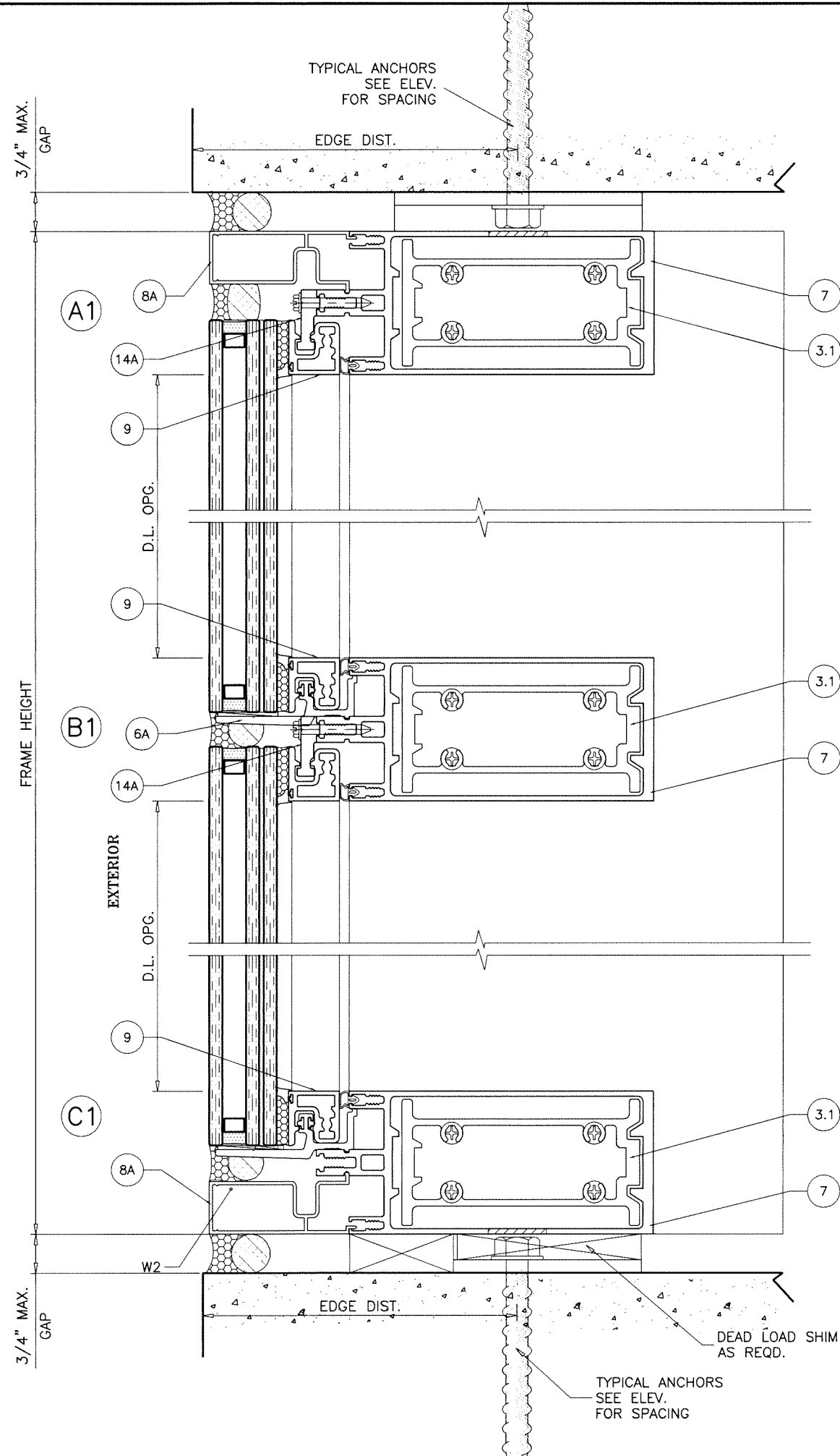
SERIES 2000 STICK ALUM. CURTAIN WALL SYS. (L.M.I.)  
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date: 03-15-19  
scale: 3/8" = 1"  
dr. by: TARIQ  
chk. by:

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no date by description

drawing no.  
**19-18F**  
sheet 9 of 21



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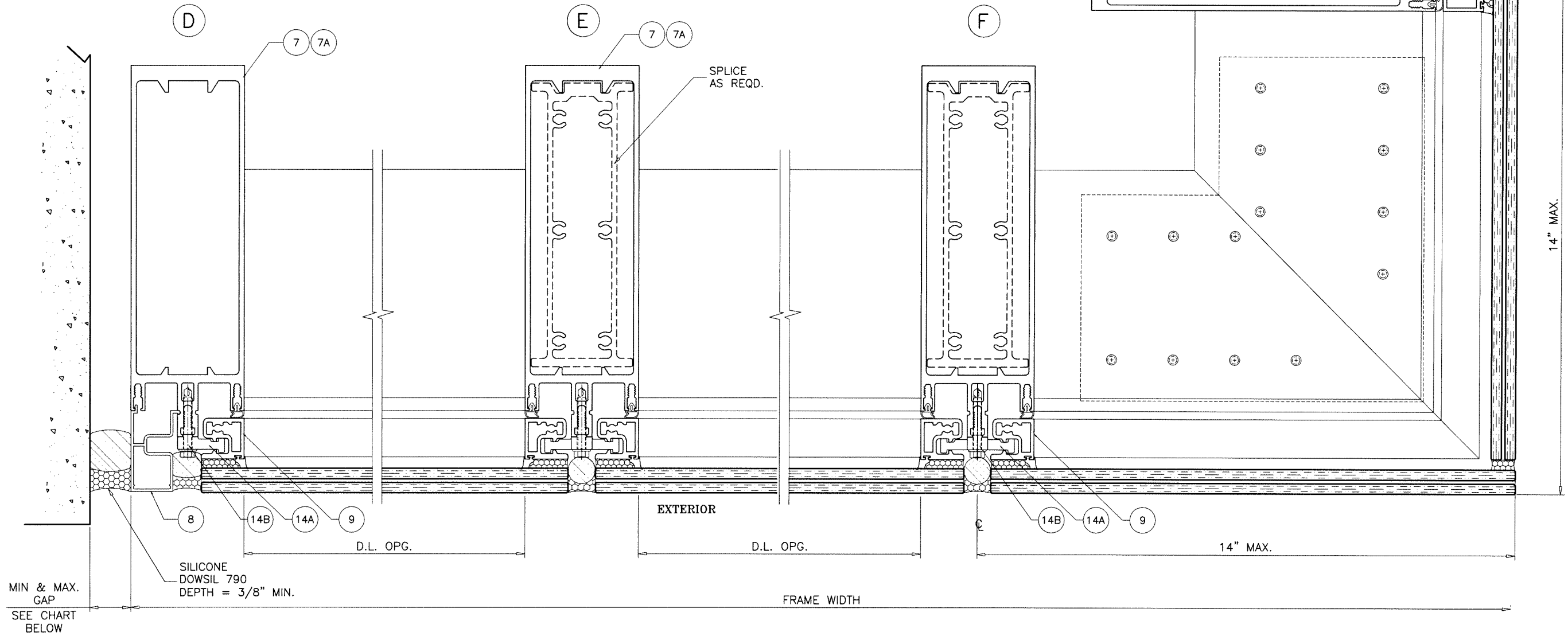
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drawing no.

**19-18F**

sheet 9.1 of 21



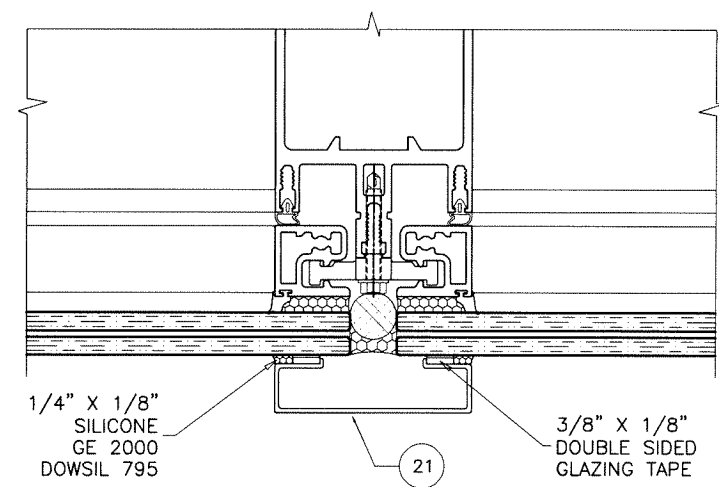


MAX. FRAME HEIGHT	GAP	
	MIN.	MAX.
180"	1/2"	3/4"
204"	5/8"	3/4"

NOTE:  
 MAX. MOVEMENT CONSIDERED=100% STRETCH.  
 PLEASE REFER TO SEALANT MANUFACTURER'S DATA AND APPLICATION MANUAL FOR COMPATABILITY OF SEALANT TO SUBSTRATE & WINDOWALL MATERIAL/FINISH AND COMPLIANCE FOR WARRANTY.  
 REFER TO ACI-117-10 FOR CONSTRUCTION TOLERANCES.

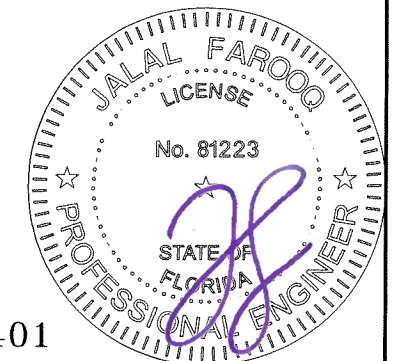
ALTERNATE SEALANTS AT JAMB GAPS CAN BE DESIGNED BY ENGINEER OF RECORD BASED ON MANUFACTURER GUIDE LINES.

GAPS LESS THAN 1/4" MAY BE DESIGNED BY ENGINEER OF RECORD BY THE USE OF BOND BREAKER TAPE OR 15% OF GAP ALLOWED MOVEMENT.



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COMP-ANL \ 19-18F-MG

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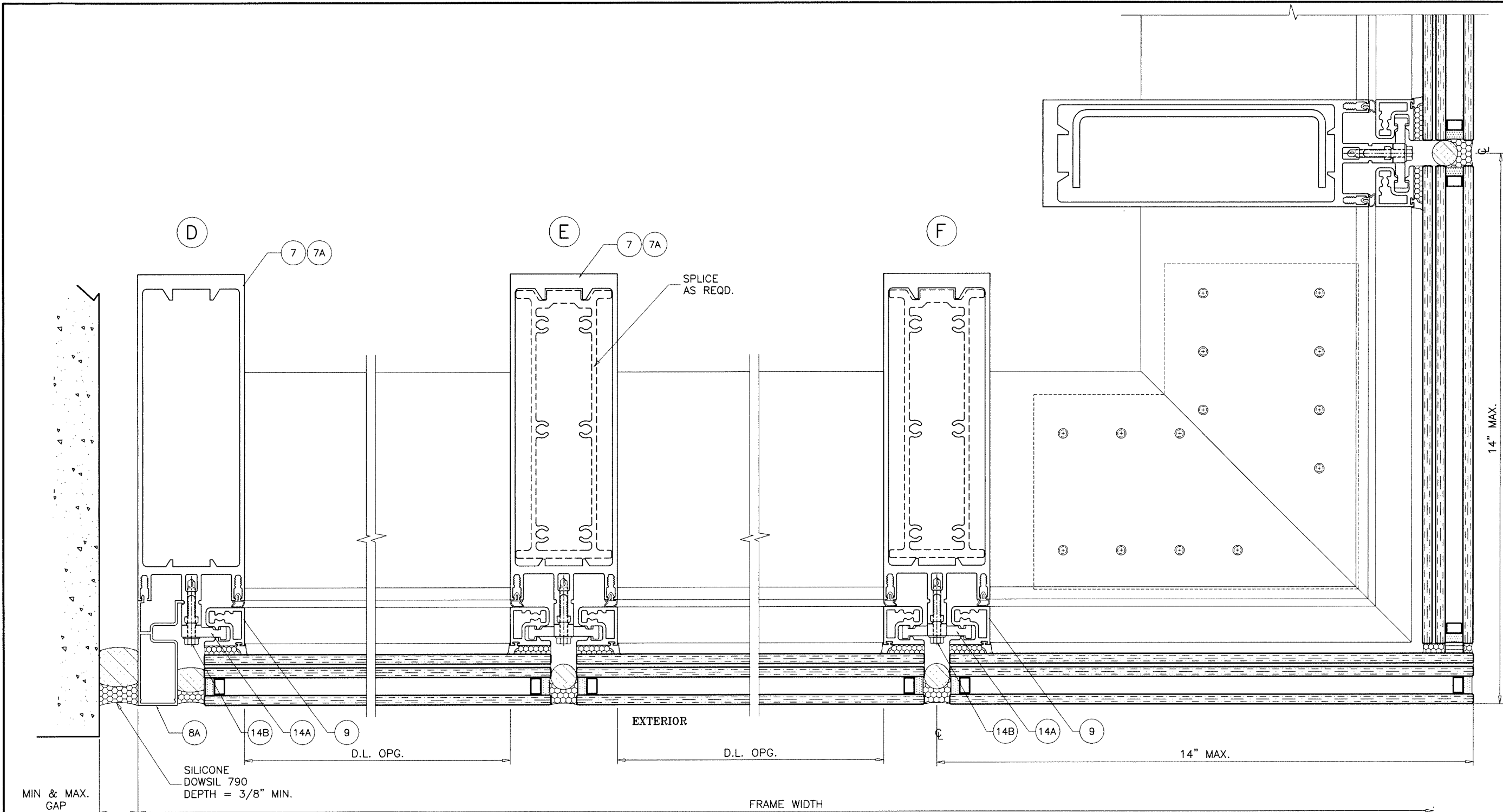
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**MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC**  
 8051 N.W. 79th Place  
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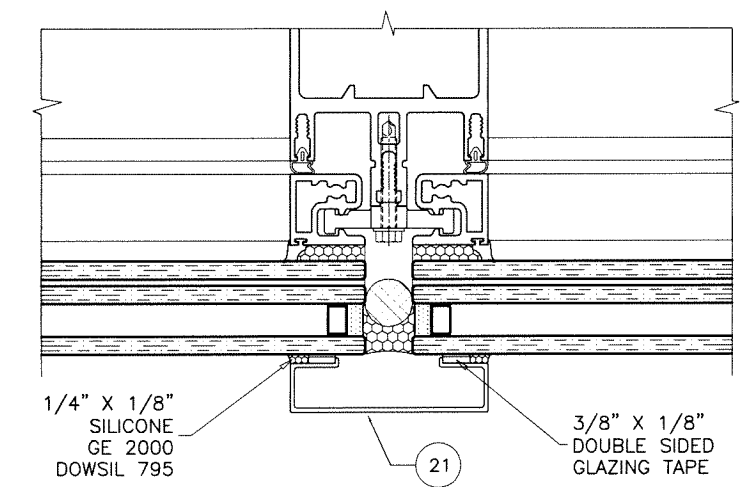
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date: 03-15-19 scale: 3/8" = 1" dr. by: TARIQ chk. by:   
 drawing no. **19-18F**  
 sheet 10 of 21



MIN & MAX.  
GAP  
SEE CHART  
SHEET 8

SILICONE  
DOWSIL 790  
DEPTH = 3/8" MIN.

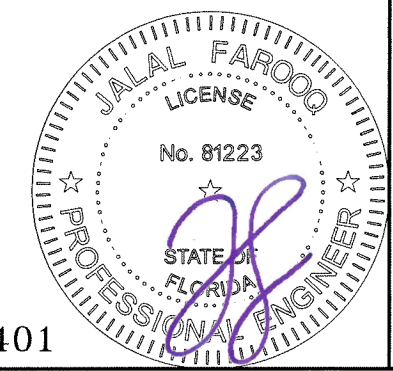



1/4" X 1/8"  
SILICONE  
GE 2000  
DOWSIL 795

3/8" X 1/8"  
DOUBLE SIDED  
GLAZING TAPE

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14" MAX.

revisions:

no	date	by	description

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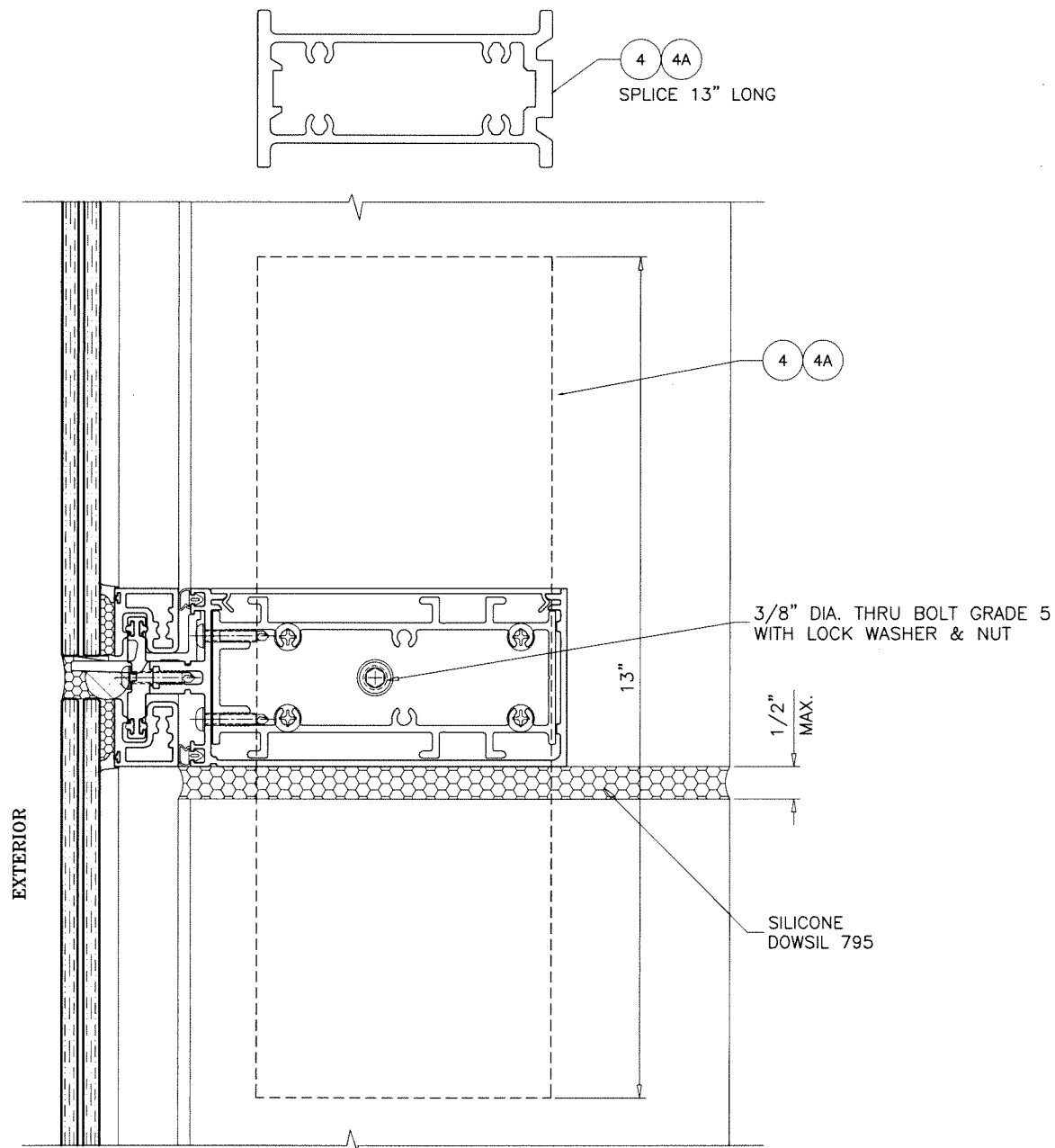
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chk. by:

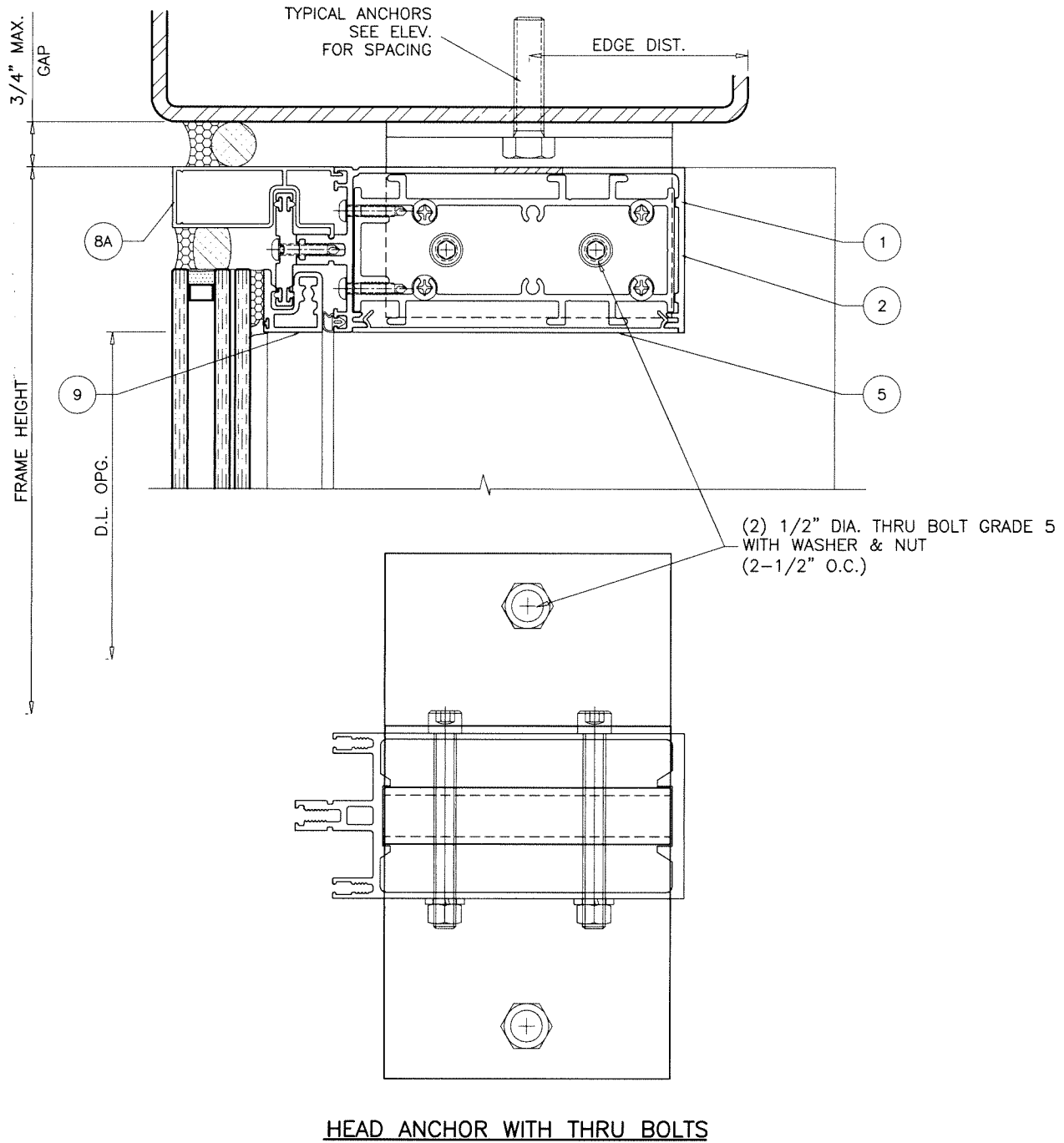
drawing no.

**19-18F**

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EXPANSION JOINT DETAIL



HEAD ANCHOR WITH THRU BOLTS

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revisions:	no	date	by description

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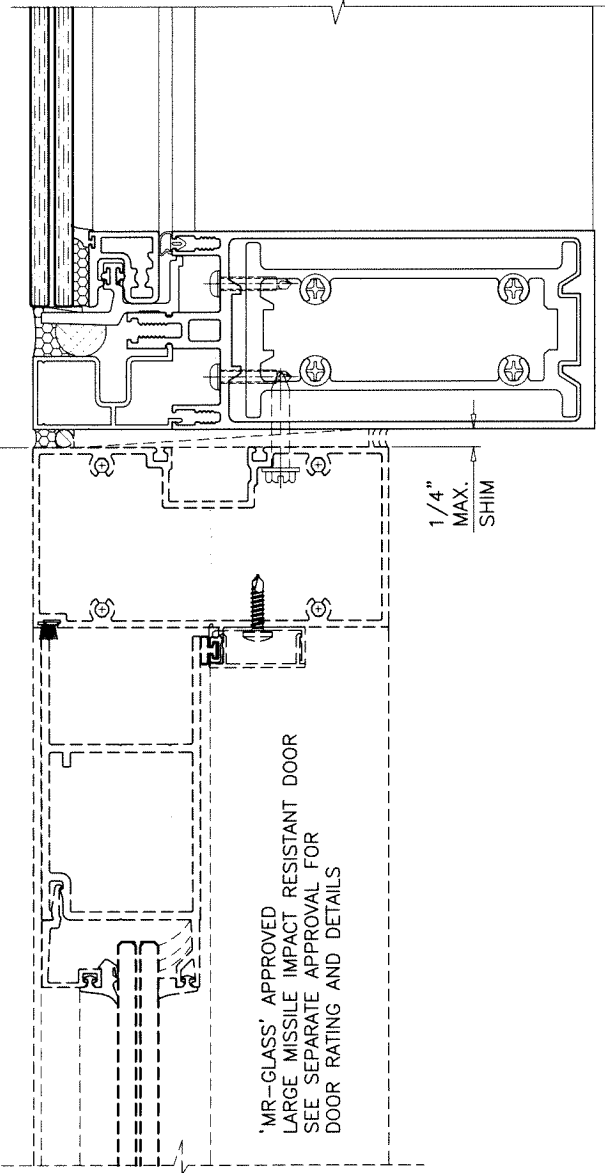
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sheet 11.1 of 21				



G

120" MAX.  
DOOR HEIGHT

EXTERIOR



H

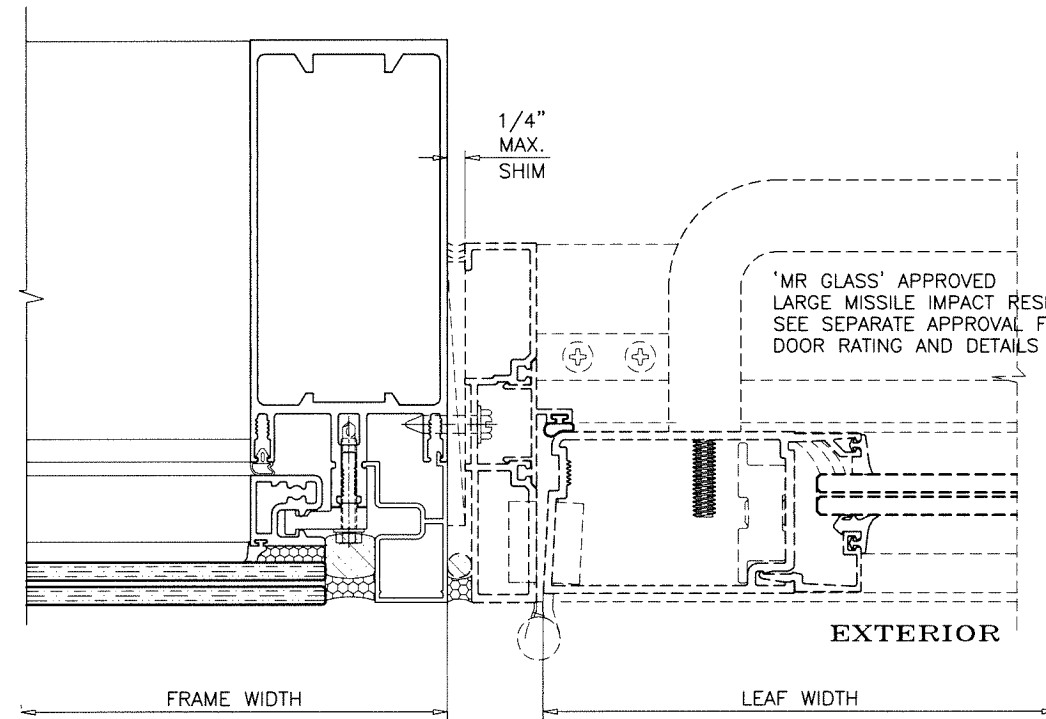
1/4" MAX.  
SHIM

'MR GLASS' APPROVED  
LARGE MISSILE IMPACT RESISTANT DOOR  
SEE SEPARATE APPROVAL FOR  
DOOR RATING AND DETAILS

EXTERIOR

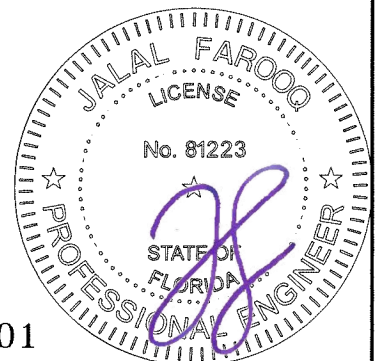
FRAME WIDTH

LEAF WIDTH



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FL #27401

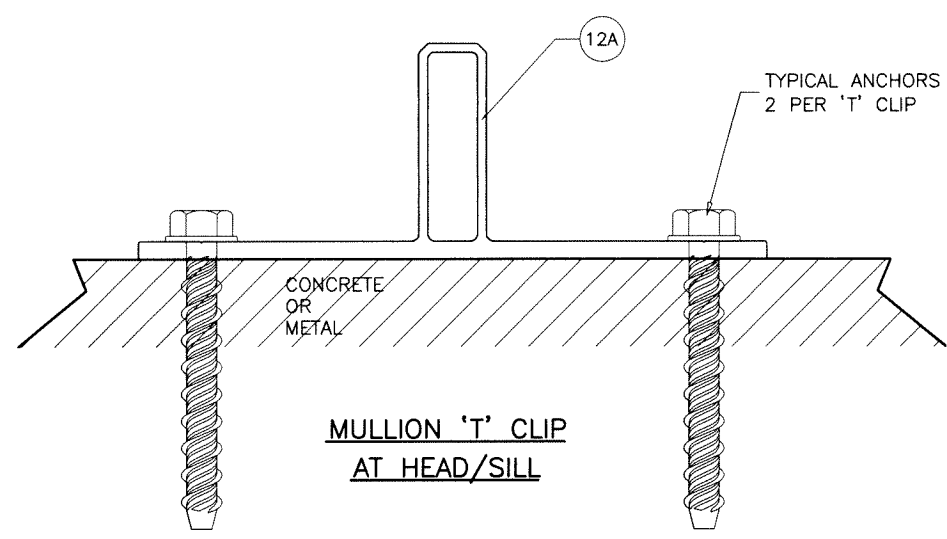
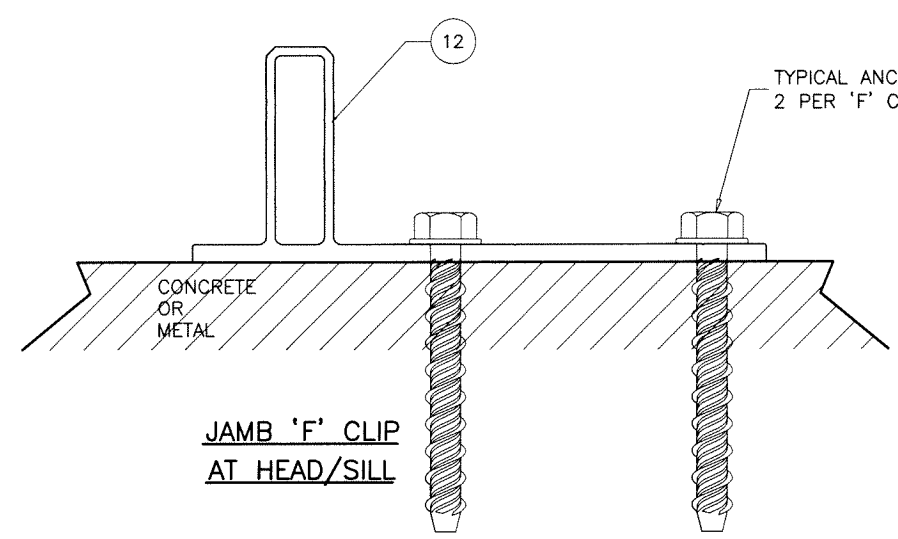
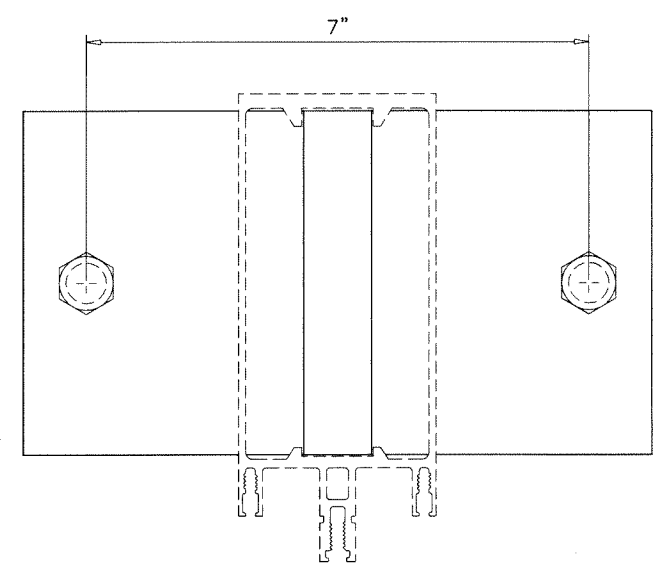
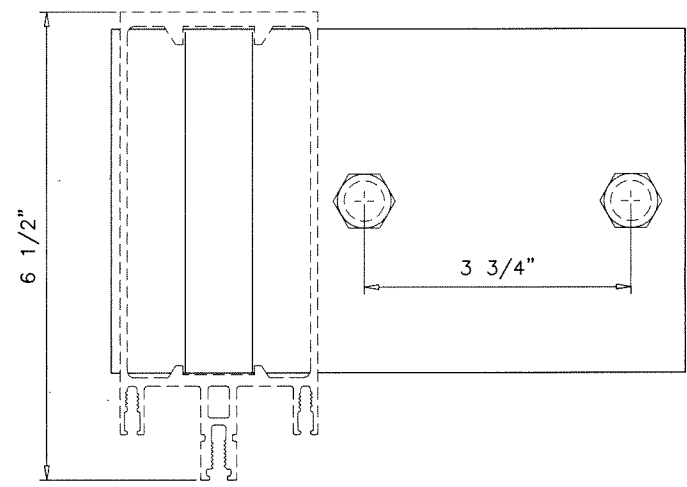


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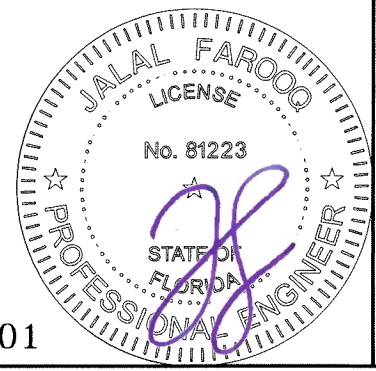
SERIES 2000 STICK ALUM. CURTAIN WALL SYS. (L.M.I.)  
**MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC**  
8051 N.W. 79th Place  
Medley, FL. 33166  
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revisions:		no		date		by		description	
date:		03-15-19		scale:		3/8" = 1"		dr. by:	
drawing no.		19-18F		chk. by:					
sheet		12 of 21							

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ANCHORS TYPE 'A'



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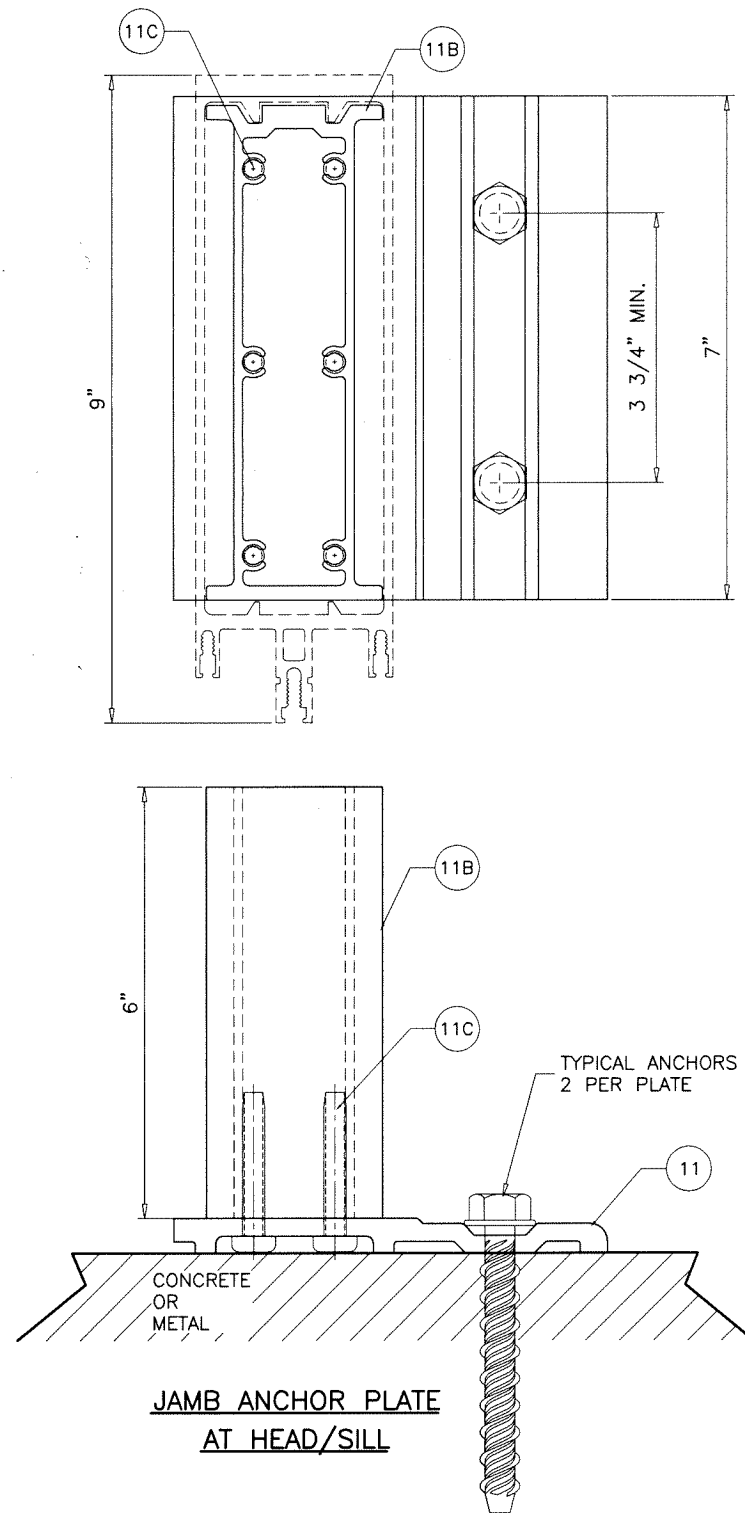
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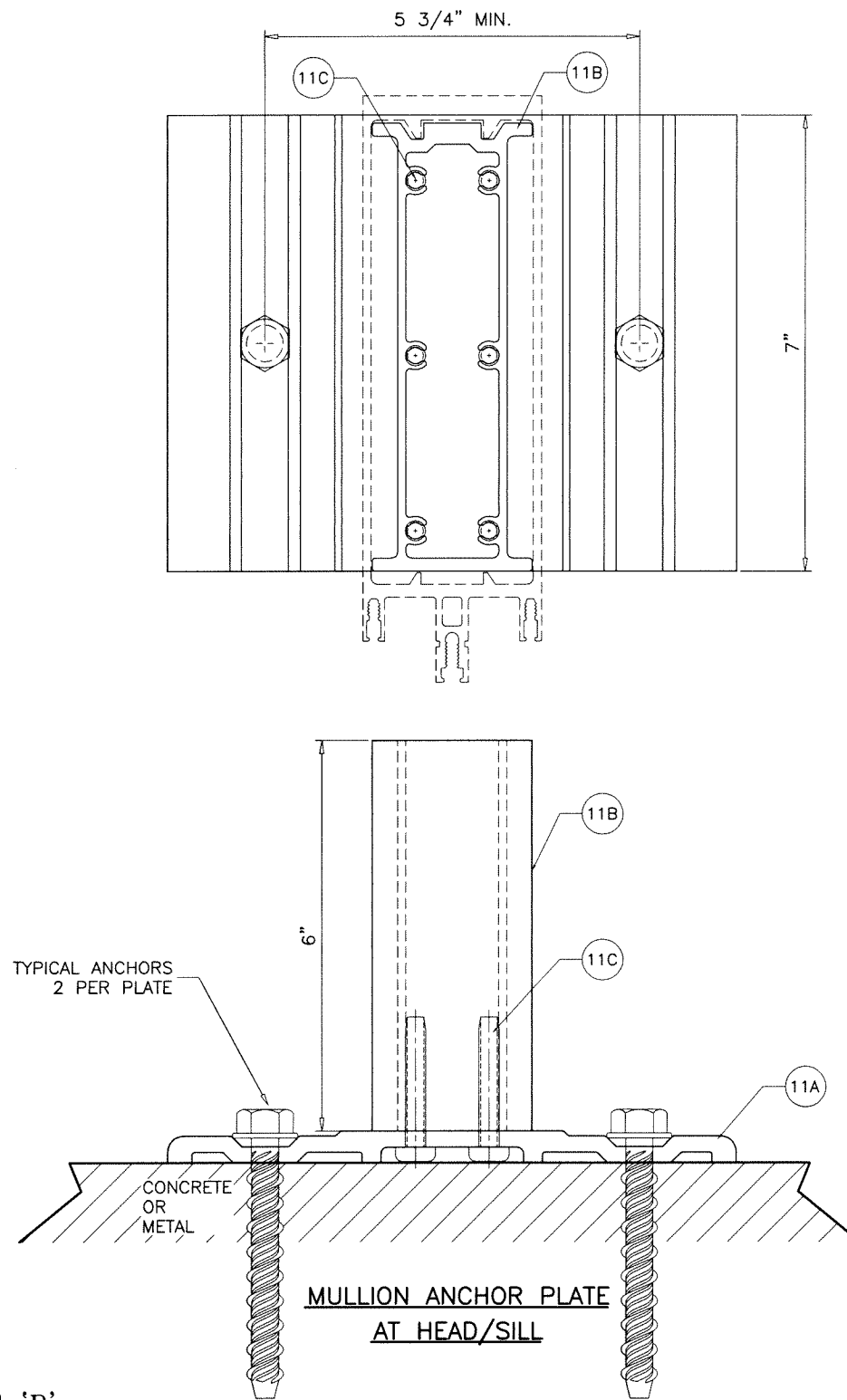
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chk. by:

drawing no.  
**19-18F**  
sheet 13 of 21

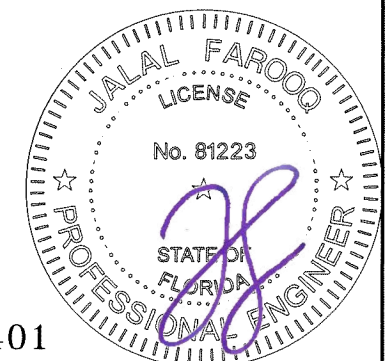


### ANCHORS TYPE 'B'



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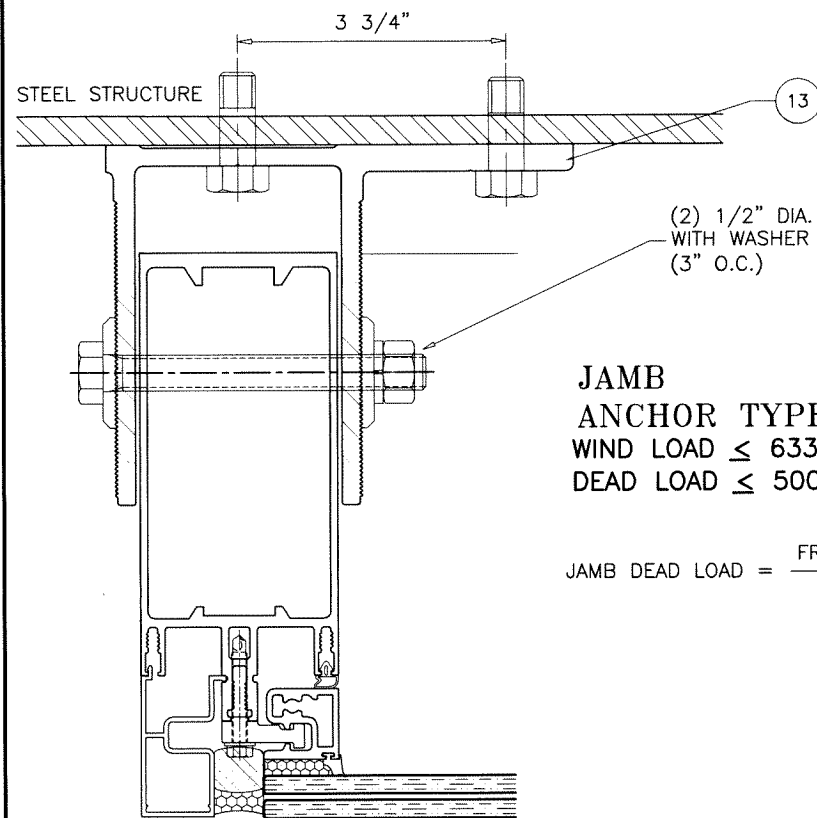
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chk. by:			

drawing no. 19-18F

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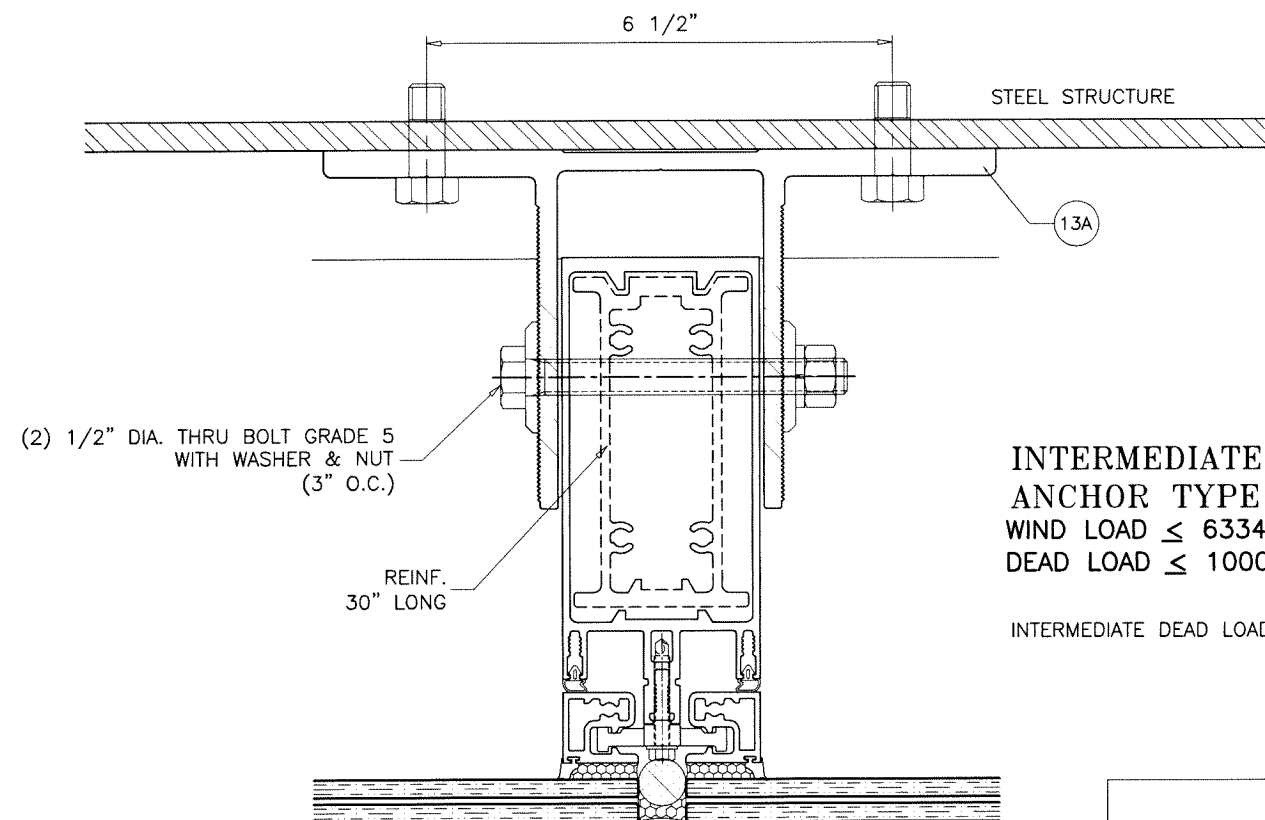






**JAMB  
ANCHOR TYPE '1'**  
WIND LOAD  $\leq$  6334 LBS  
DEAD LOAD  $\leq$  500 LBS

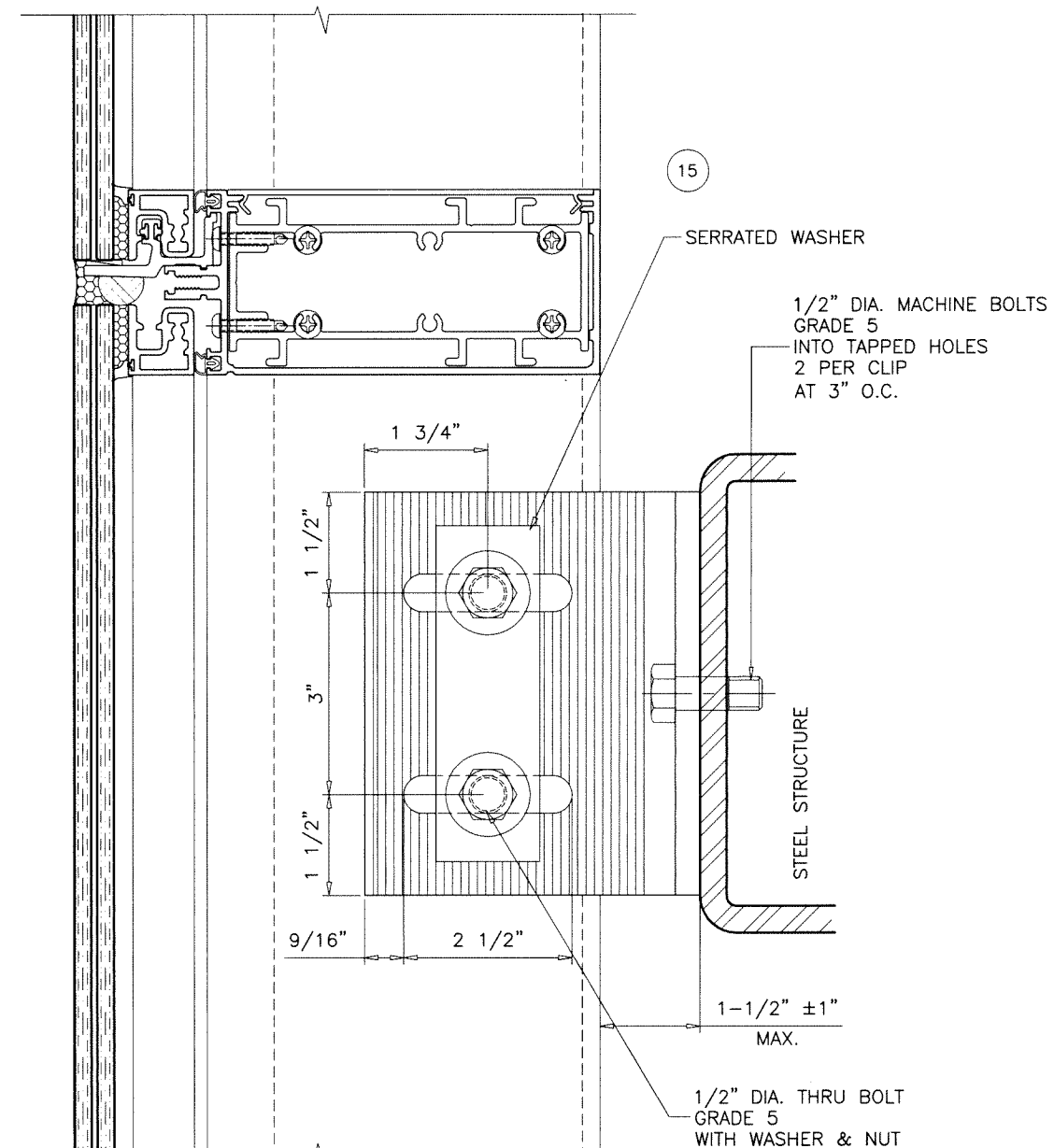
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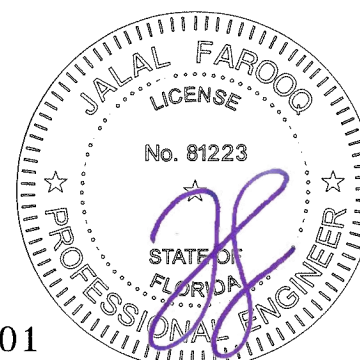
**INTERMEDIATE  
ANCHOR TYPE '1'**  
WIND LOAD  $\leq$  6334 LBS  
DEAD LOAD  $\leq$  1000 LBS

$$\text{INTERMEDIATE DEAD LOAD} = \text{FRAME WIDTH (FT.)} \times \text{FRAME HT. (FT.)} \times 13 \text{ PSF}$$

**DEAD LOAD ANCHOR  
INTO 1/4" THK. MIN. COMMERCIAL STEEL**



**INTERMEDIATE ANCHORS**



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revisions:		date		by description	
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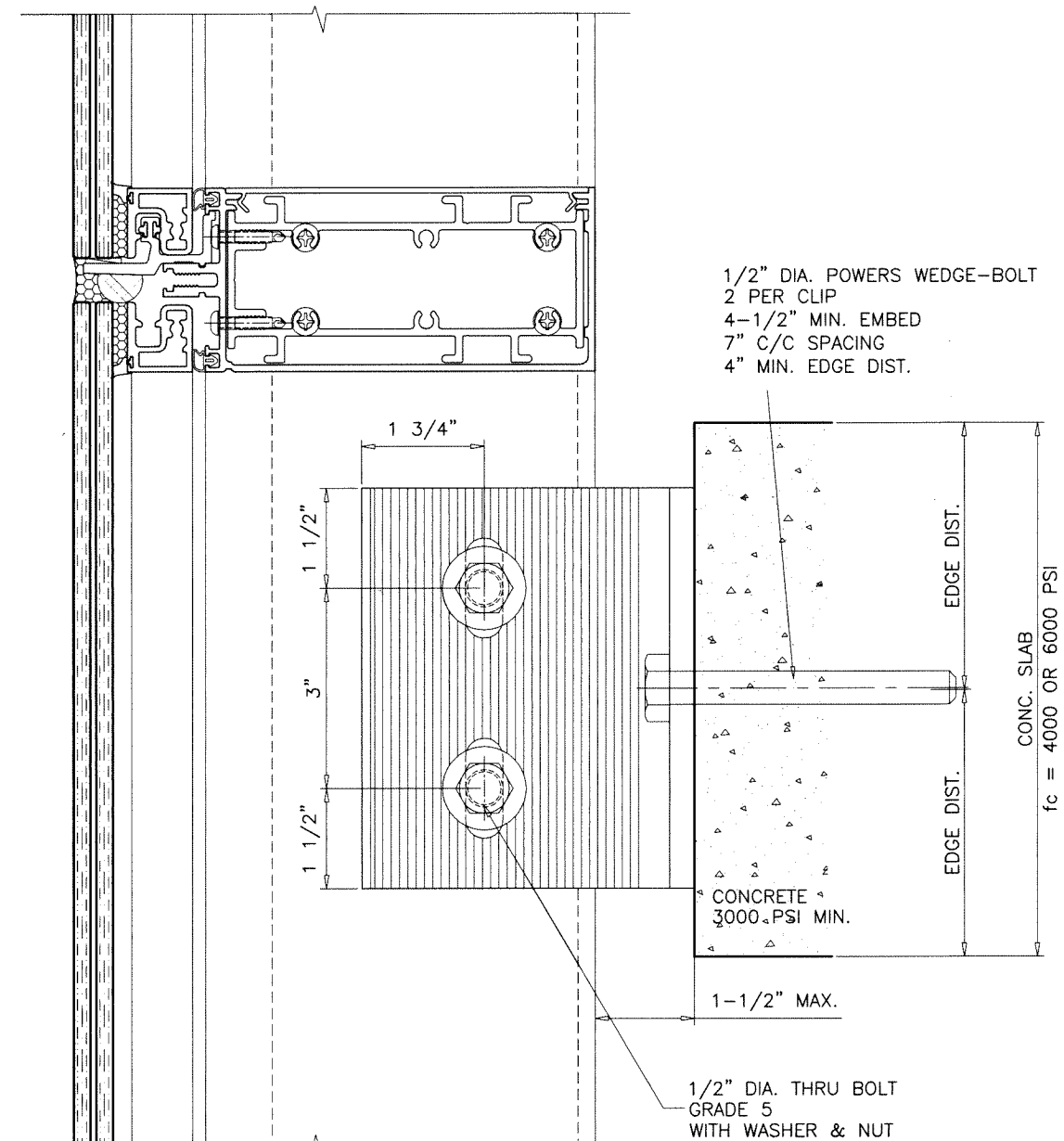
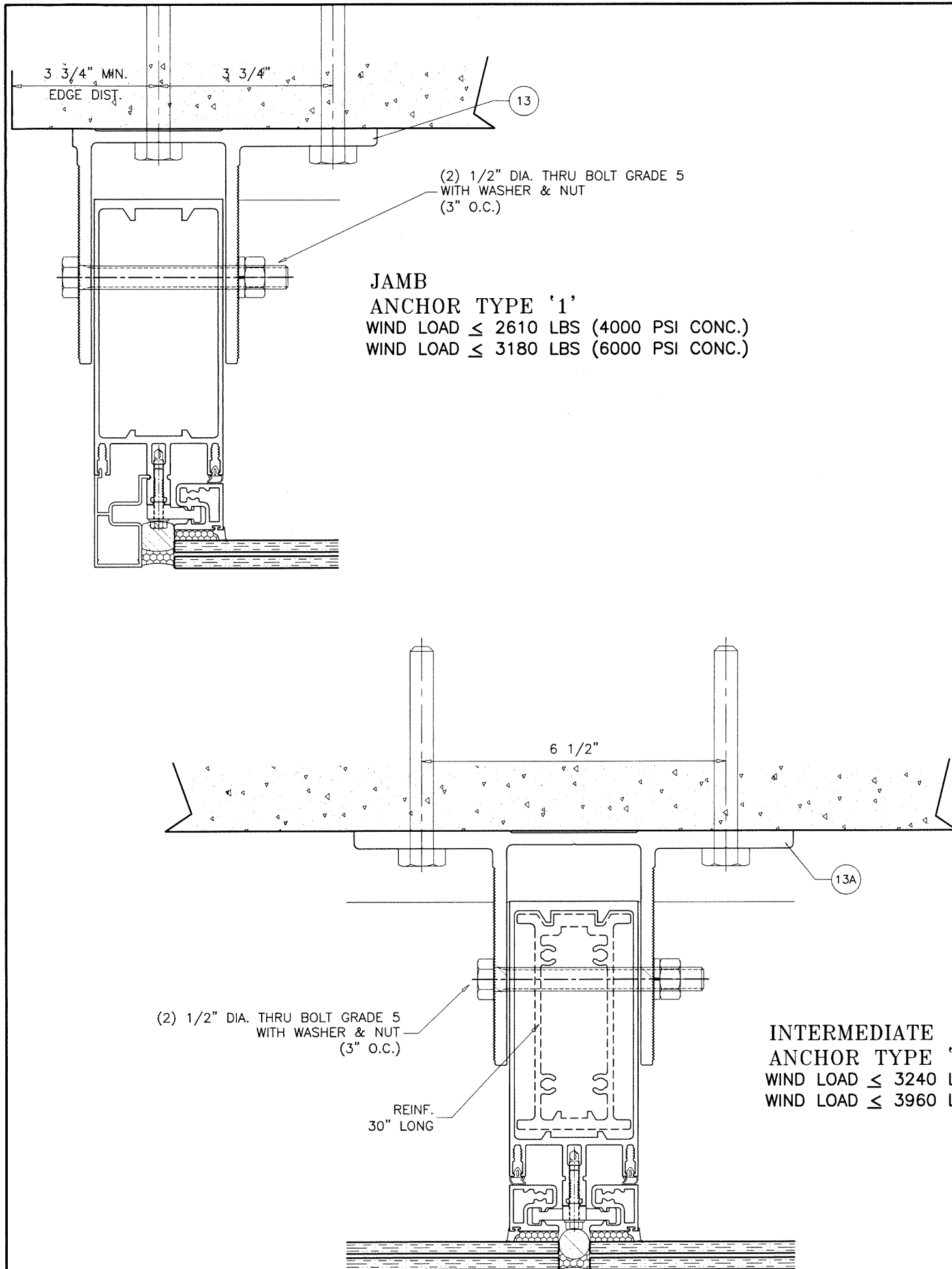
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chk. by:

drawing no.

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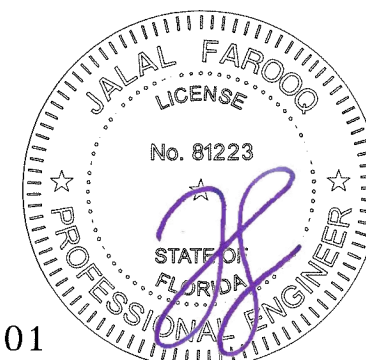


INTERMEDIATE ANCHORS

WIND LOAD ANCHOR

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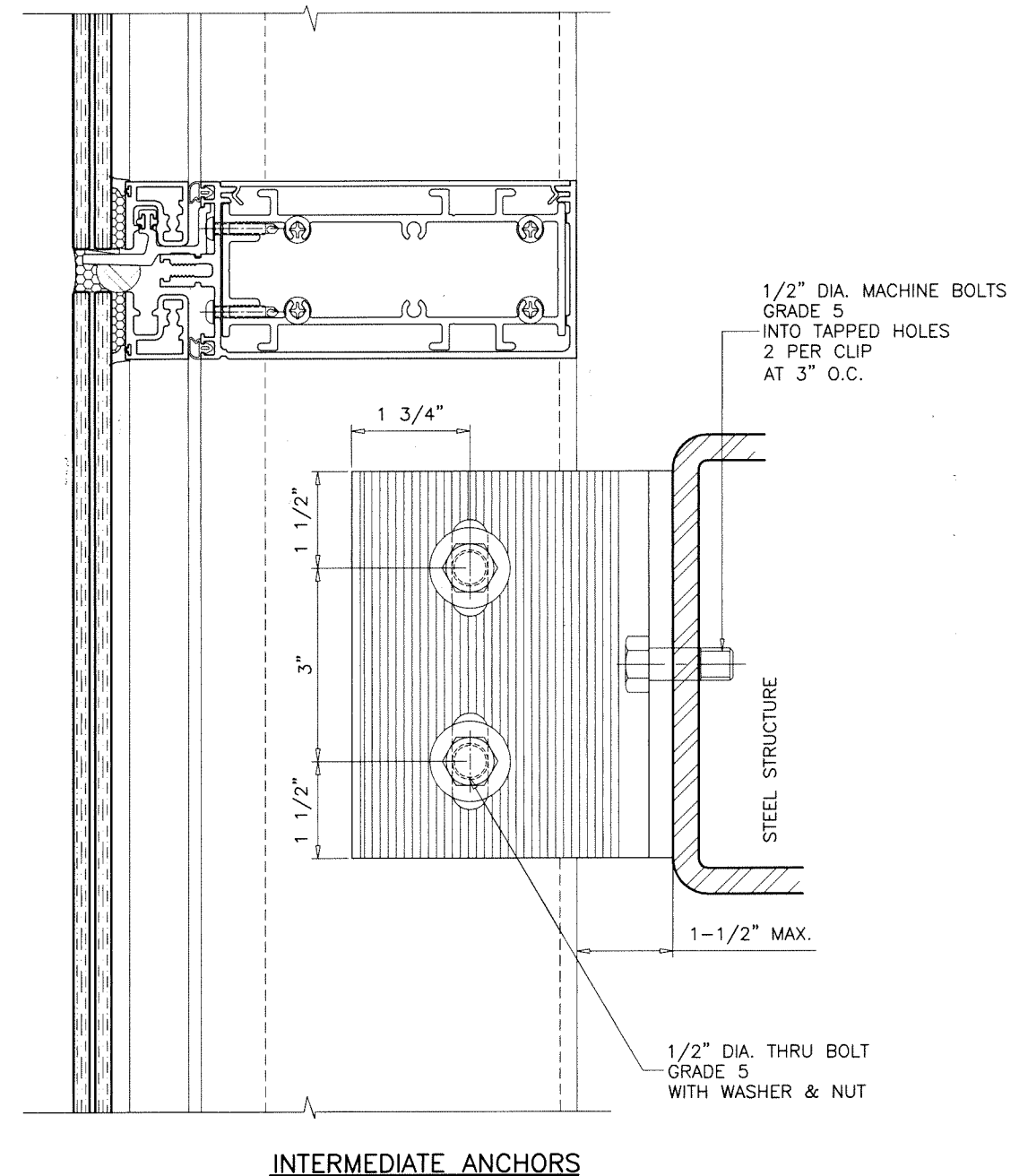
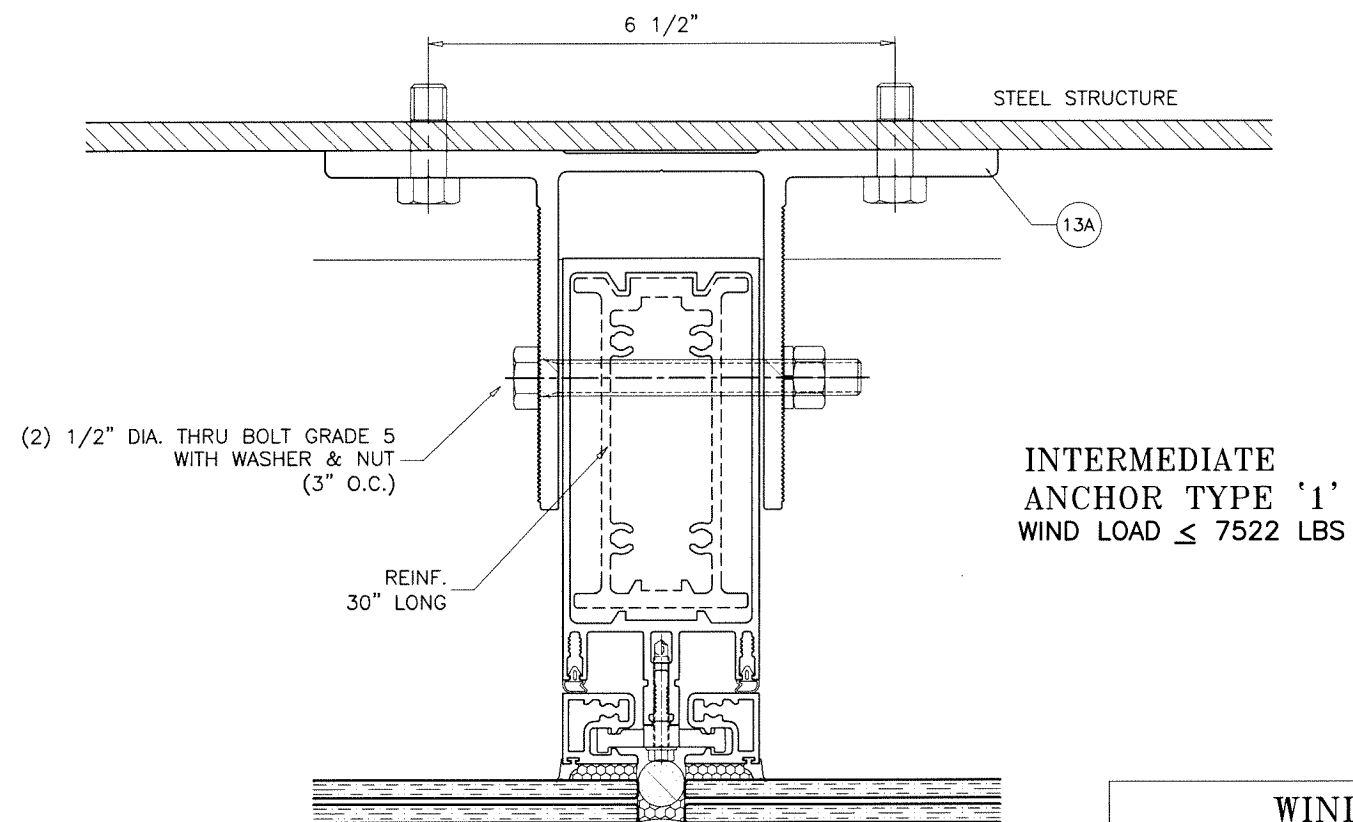
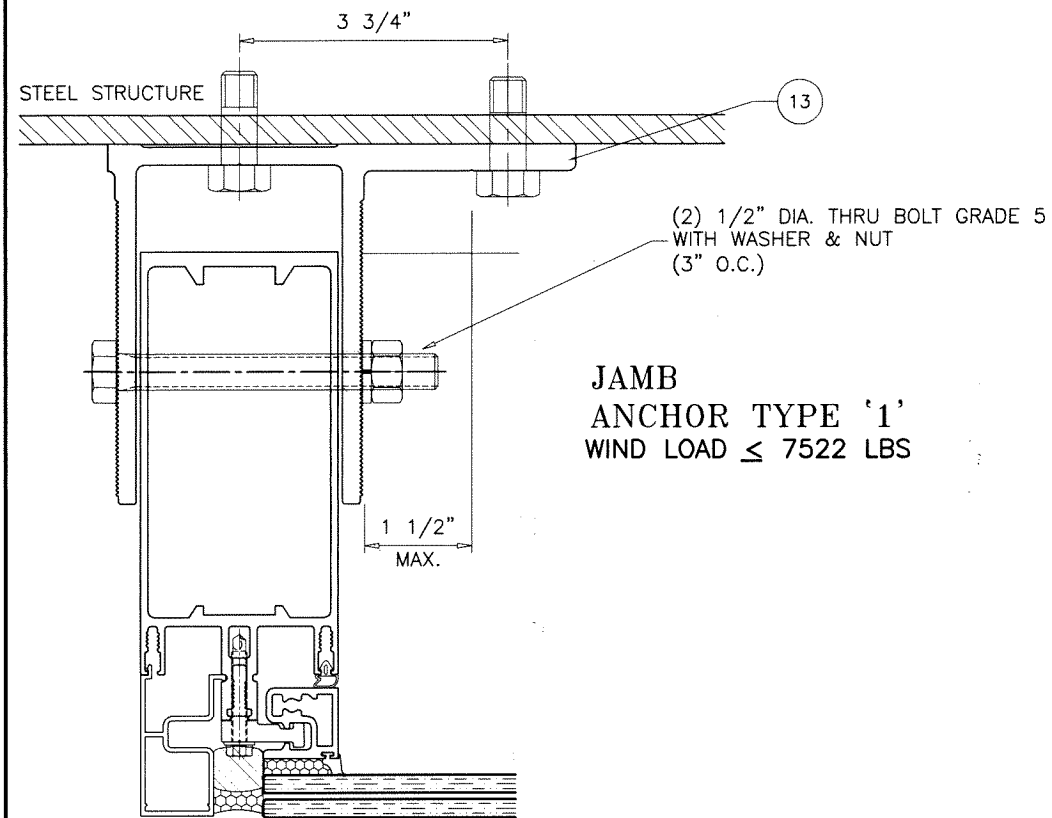
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chk. by:  

drawing no.  
**19-18F**

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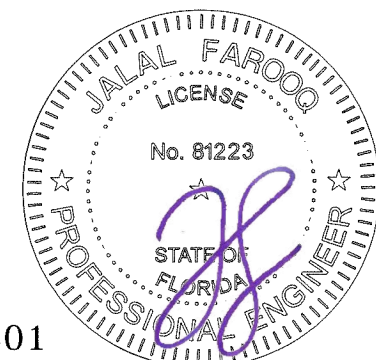




WIND LOAD ANCHOR  
INTO 1/4" THK. MIN. COMMERCIAL STEEL

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Tel (305) 764-3963

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<b>date:</b>	03-15-19	
<b>scale:</b>	$\frac{3}{8}" = 1"$	
<b>dr. by:</b>	TARIQ	
<b>chk. by:</b>		

drawing no.
**19-18F**

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**18**
of 21

ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E-2007	AS REQD.	FRAME HEAD/SILL/HORIZONTAL	6063-T6	-
2	E-2010	AS REQD.	SHEAR BLOCK, 7/8" LONG, SPLICE	6063-T6	-
2A	#12 1-1/4"	4/ BLOCK	SHEAR BLOCK FASTENERS	ST. STEEL	PH SELF DRILLING
2B	#10 X 3/4"	2/ BLOCK	SHEAR BLOCK FASTENERS	ST. STEEL	PH SELF DRILLING
3	E-2022	AS REQD.	REINF. SPLICE (LENGTH = 30")	6063-T6	-
3'	E-2022	AS REQD.	MULLION REINF. (FULL LENGTH)	6063-T6	-
3A	E-2021	AS REQD.	JAMB/REINFORCEMENT (LENGTH = 30")	6063-T6	-
3C	-	AS REQD.	REINF. SPLICE (LENGTH = 30")	STEEL	A36, Fu MIN. 58 KSI
3C'	-	AS REQD.	MULLION REINF. (FULL LENGTH)	STEEL	A36, Fu MIN. 58 KSI
3.1	E-2022	AS REQD.	HORIZONTAL REINFORCEMENT (FULL LENGTH)	6063-T6	-
4	E-2022	AS REQD.	SPLICE (LENGTH = 13")	6063-T6	-
4A	E-2021	AS REQD.	SPLICE (LENGTH = 13")	6063-T6	-
5	E-2046	AS REQD.	FRAME COVER	6063-T5	-
6	A20-02	2/ LITE	SITTING SHELF, 6" LONG (LAM. GLASS)	6063-T6	-
6A	A20-03	2/ LITE	SITTING SHELF, 6" LONG (INSUL. LAM. GLASS)	6063-T6	-
6B	#12 X 3/4"	2/ SHELF	SITTING SHELF FASTENERS	ST. STEEL	PH SMS
7	E-2002	AS REQD.	6-1/2" FRAME JAMB/MULLION/HORIZONTAL	6063-T6	-
7A	E-2001	AS REQD.	9" FRAME JAMB/MULLION	6063-T6	-
8	E-2047	AS REQD.	POCKET FILLER (LAM. GLASS)	6063-T5	-
8A	E-2048	AS REQD.	POCKET FILLER (INSUL. LAM. GLASS)	6063-T5	-
9	E-2031	AS REQD.	SUB FRAME	6063-T6	-
10	E-2037	AS REQD.	SUB FRAME CORNER KEY	6063-T6	-
10A	#12 X 2-1/2"	1/ CORNER	SUB FRAME ASSEMBLY FASTENERS	ST. STEEL	FH SELF DRILLING
11	E-2013	AS REQD.	ANCHOR PLATE (JAMB)	6063-T6	-
11A	E-2013	AS REQD.	ANCHOR PLATE (MULLION)	6063-T6	-
11B	E-2021	AS REQD.	ANCHOR INSERT, 6" LONG	6063-T6	-
11C	5/16" X 2"	6/ PLATE	PLATE FASTENERS	ST. STEEL	PH TAPPING SCREW
12	E-2015	AS REQD.	'F' ANCHOR CLIP (JAMB)	6063-T6	-
12A	E-2014	AS REQD.	'T' ANCHOR CLIP (MULLION)	6063-T6	-
13	E-2016	AS REQD.	INTERMEDIATE ANCHOR CLIP (JAMB)	6063-T6	-
13A	E-2016	AS REQD.	INTERMEDIATE ANCHOR CLIP (MULLION)	6063-T6	-
14	E-2033	AS REQD.	RETAINER CLIP, 2" LONG	6063-T5	-
14A	E-2015	AS REQD.	RETAINER CLIP, 2" LONG, AT 18" O.C. MAX.	6063-T5	-
14B	#12 X 3"	2/ CLIP	RETAINER CLIP FASTENERS	ST. STEEL	HH SELF DRILLING
15	E-2017	AS REQD.	SERRATED WASHER	6063-T5	-
16	G-2002	AS REQD.	SUB FRAME GASKET	EPDM	DUROMETER 80±5 SHORE A
17	G-2001	AS REQD.	INTERIOR GLAZING GASKET	SANTOPRENE	DUROMETER 70±5 SHORE A
18	G-2003	AS REQD.	PRESSURE PLATE GASKET	EPDM	DUROMETER 80±5 SHORE A
19	G-2006	AS REQD.	BUMPER (AT SITTING SHELF)	EPDM	DUROMETER 80±5 SHORE A
20	-	2/ LITE	SETTING BLOCKS (9/16" X 1/8" X 4" LONG) AT 1/4 POINTS	SILICONE	DUROMETER 80±5 SHORE A
20A	-	2/ LITE	SETTING BLOCKS (9/16" X 1/8" X 4" LONG) AT 1/4 POINTS	SILICONE	DUROMETER 80±5 SHORE A
21	-	AS REQD.	DECORATIVE CAP	6063-T5	-


SEALANTS:

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



Sealed: 7/21/2023

FL #27401



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

SERIES 2000 STICK ALUM. CURTAIN WALL SYS. (L.M.I.)

**MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC**  
8051 N.W. 79th Place  
Medley, FL. 33166  
Tel. (305) 764-3963 Fax. (305) 470-8285

revisions:

no	date	by	description

date: 03-15-19

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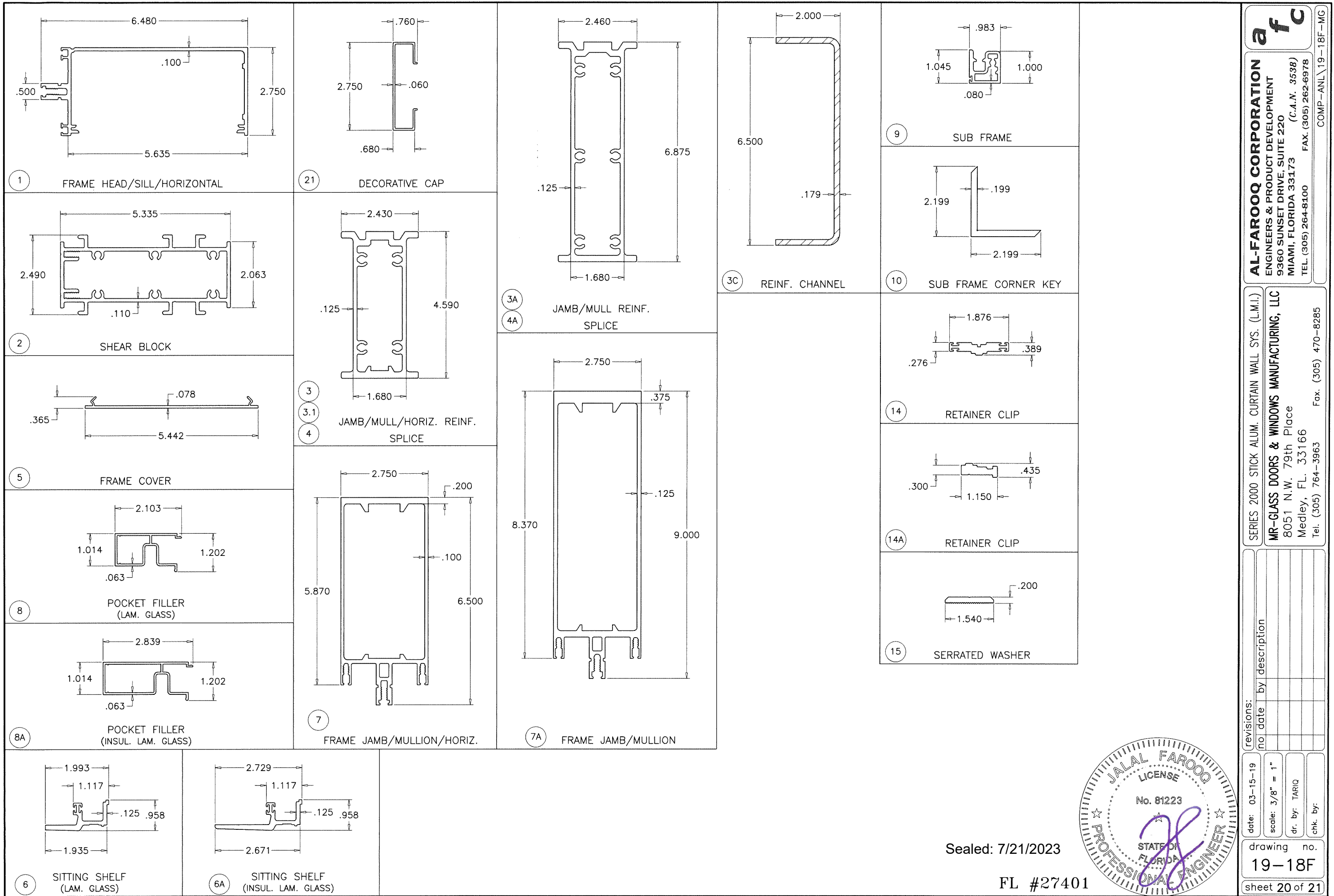
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chk. by:

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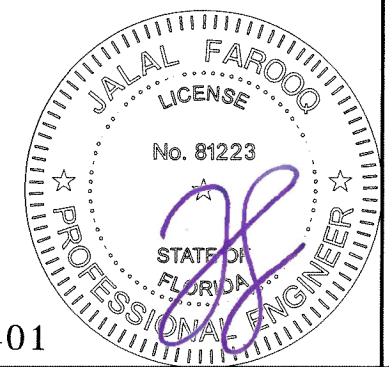
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Sealed: 7/21/2023

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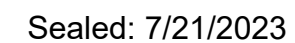
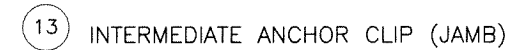
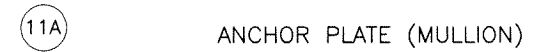
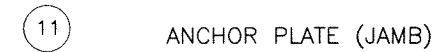
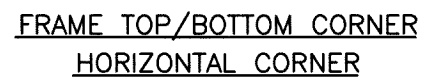
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sheet 20 of 21





FL #27401

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 9360 SUNSET DRIVE, SUITE 220  
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19-18F

sheet 21 of 21

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