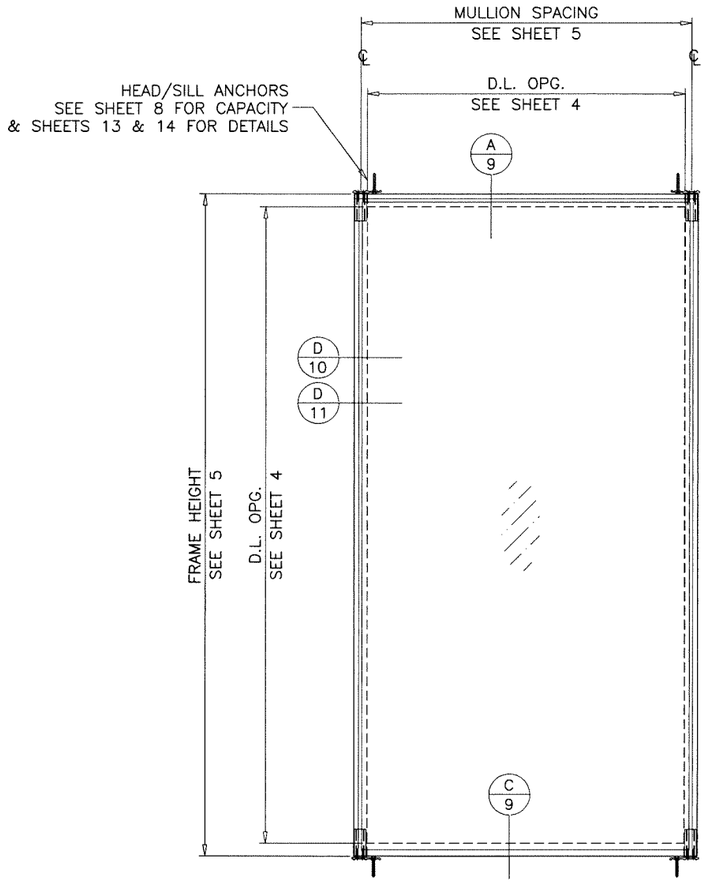
NOTE:
GLASS CAPACITIES ARE BASED ON ASTM E1300–16 (3 SEC. GUSTS).

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.



TYPICAL ELEVATION
SINGLE 'O' PANEL

FASTENERS AND CONNECTORS (AS APPLICABLE) SHOWN IN THIS APPROVAL MAY NOT MEET CORROSION RESISTANCE REQUIREMENTS FOR COASTAL OR SALT WATER EXPOSURE ZONES. COMPLIANCE WITH THESE CONDITIONS TO BE CHECKED PER FBC 1711.

LAMINATED GLASS
INSUL. LAM. GLASS
LARGE MISSILE IMPACT

SERIES 2000 STICK ALUMINUM CURTAIN WALL SYSTEM

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2023 (8TH EDITION)/2026 (9TH 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 LOAD–BEARING, (HIGH DENSITY PLASTIC/COMPOSITE, METAL OR OTHER RIGID MATERIALS).

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2023/2026 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.

Sealed: 8/19/2026

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.

JALAL FAROOQ
LICENSE
No. 81223
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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\19–18F–MG

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

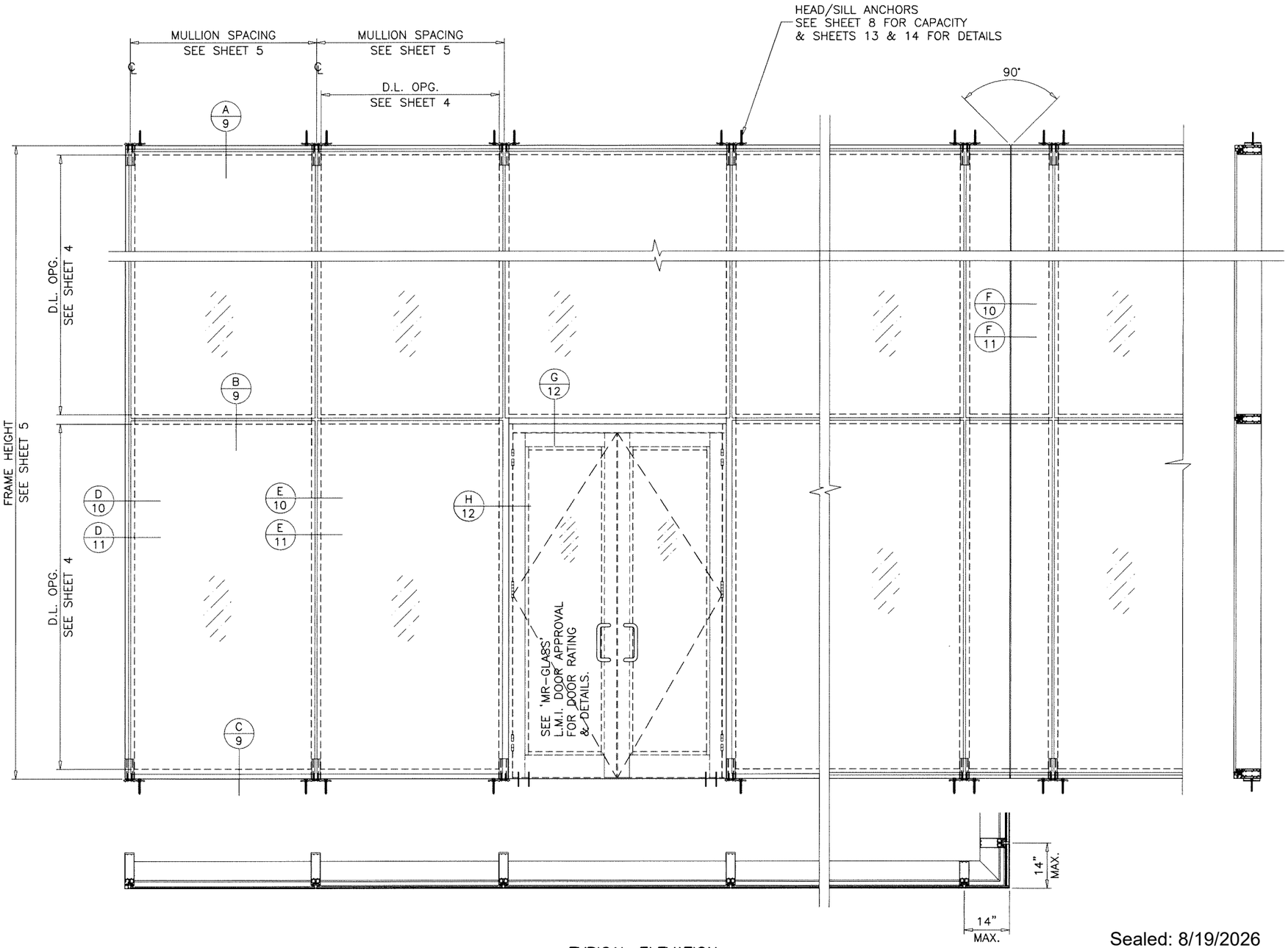
MR–GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL. 33166
Tel. (305) 764–3963 Fax. (305) 470–8285

revisions:			
no	date	by	description
C	08.12.22		NEW TEST ADDED
D	01.23.23		DECORATIVE CAP OPTION ADDED
E	07.18.23		UPDATED TO 2023 FBC
F	03.14.24		ANGULAR PANEL OPTION ADDED
G	07.28.26		UPDATED TO 2026 FBC

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

drawing no.
19–18F

sheet 1 of 21



TYPICAL ELEVATION
SINGLE SPANS

Sealed: 8/19/2026

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

COMP-ANL\19-18F-MG

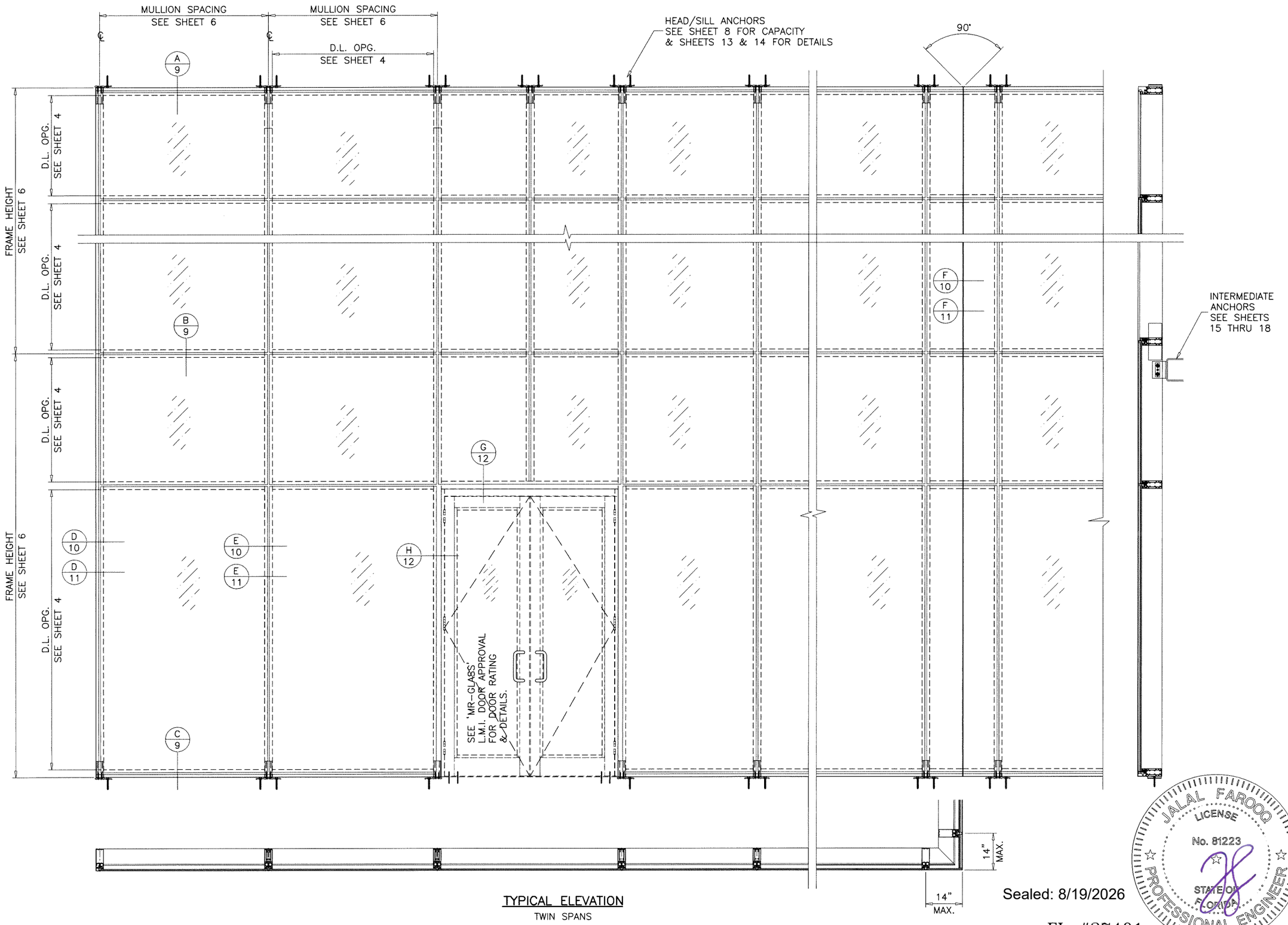
SERIES 2000 STICK ALUM. CURTAIN WALL SYS. (L.M.I.)

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: 3/8"=1'-0"
dr. by: TARIQ
chk. by:

drawing no. 19-18F



TYPICAL ELEVATION
TWIN SPANS

Sealed: 8/19/2026

FL #27401

JALAL FAROOQ
LICENSE
No. 81223
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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\19-18F-MG

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: 3/8"=1'-0"
dr. by: TARIQ
chk. by:

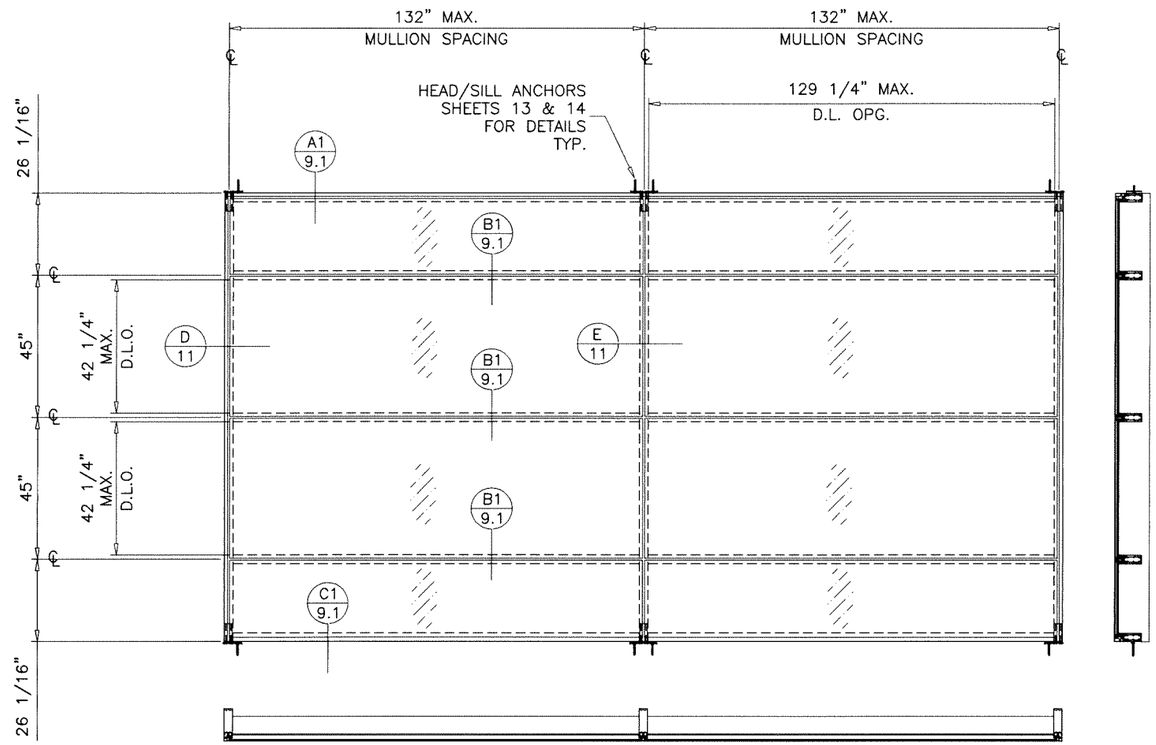
drawing no.
19-18F

GLASS DESIGN LOAD CAPACITY – PSF					
NOMINAL DIMS.		GLASS TYPE 'Ai'		GLASS TYPE 'Bi'	
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+)	INT. (–)	EXT. (+)	INT. (–)
42–1/4"	90–1/2"	60.0	60.0	60.0	60.0
45–1/4"		60.0	60.0	56.3	56.3
51–1/4"		60.0	60.0	50.0	50.0
57–1/4"		60.0	60.0	45.0	45.0
42–1/4"	102–1/2"	60.0	60.0	60.0	60.0
45–1/4"		60.0	60.0	56.3	56.3
51–1/4"		60.0	60.0	50.0	50.0
42–1/4"	114–1/2"	60.0	60.0	60.0	60.0
45–1/4"		60.0	60.0	56.3	56.3
42–1/4"	126–1/2"	60.0	60.0	60.0	60.0
30–3/8"	129–1/4"	60.0	60.0	60.0	60.0

MULLION DESIGN LOAD CAPACITY – PSF SINGLE SPANS					
NOMINAL DIMS.		MULL 'M4'		MULL 'M6'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
132"	120"	60.0	60.0	60.0	60.0
120"	132"	60.0	60.0	60.0	60.0
132"		58.0	58.0	60.0	60.0
96"	144"	60.0	60.0	60.0	60.0
108"		59.5	59.5	60.0	60.0
120"		53.6	53.6	60.0	60.0
132"		48.7	48.7	60.0	60.0

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
WIDTH (W)	FRAME HEIGHT	4000 PSI	4000 PSI	6000 PSI	4000 PSI	6000 PSI	4000 PSI	6000 PSI	
96"	126"	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
108"		60.0	58.4	60.0	60.0	60.0	60.0	60.0	60.0
120"		60.0	52.6	60.0	60.0	60.0	60.0	60.0	60.0
132"		60.0	47.8	58.2	60.0	60.0	57.1	60.0	60.0
96"	132"	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
108"		60.0	55.8	60.0	60.0	60.0	60.0	60.0	60.0
120"		60.0	50.2	60.0	60.0	60.0	60.0	60.0	60.0
132"		60.0	45.6	55.5	59.5	60.0	54.5	60.0	60.0
60"	144"	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
96"		60.0	57.5	60.0	60.0	60.0	60.0	60.0	60.0
108"		60.0	51.1	60.0	60.0	60.0	60.0	60.0	60.0
120"		60.0	46.0	56.0	60.0	60.0	55.0	60.0	60.0
132"		60.0	41.8	50.9	60.0	60.0	50.0	60.0	60.0

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



CHARTS SHOWN ON THIS SHEET APPLY TO CONDITIONS SHOWN ON SHEETS 3.1 AND 3.2 ONLY

GLASS TYPES 'Ai' AND 'Bi' (SEE CHART ABOVE FOR CAPACITY)
JAMBS TYPE 'J2'
MULLIONS TYPES 'M4' AND 'M6' (SEE CHART AT LEFT FOR CAPACITY)

Sealed: 8/19/2026

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

FL #27401

afc
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\19-18F-MG

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

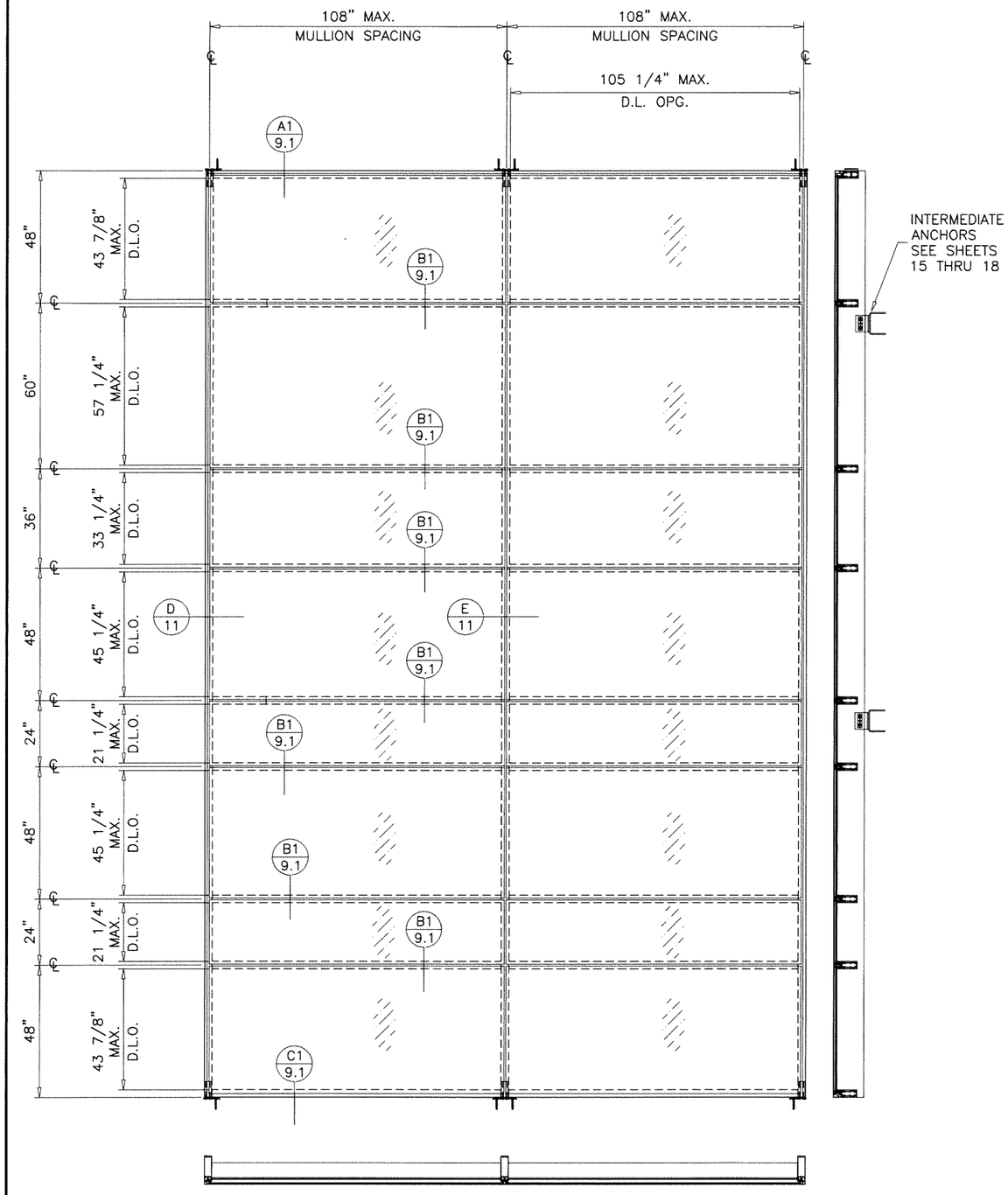
MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL. 33166
Tel. (305) 764-3963 Fax. (305) 470-8285

revisions:			
no	date	by	description

date: 03-15-19 | scale: 1/4"=1'-0" | dr. by: TARIQ | chk. by:

drawing no. 19–18F

sheet 3.1 of 21



Sealed: 8/19/2026

FL #27401

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

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\19-18F-MG

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

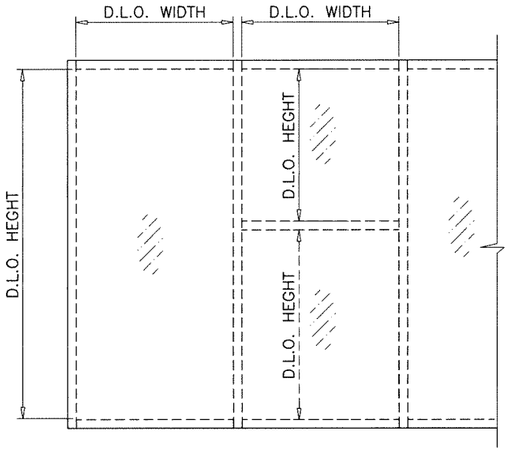
date: 03-15-19
scale: 1/4"=1'-0"
dr. by: TARIQ
chk. by:

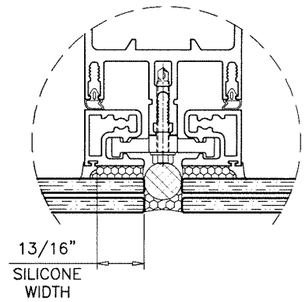
drawing no. 19-18F

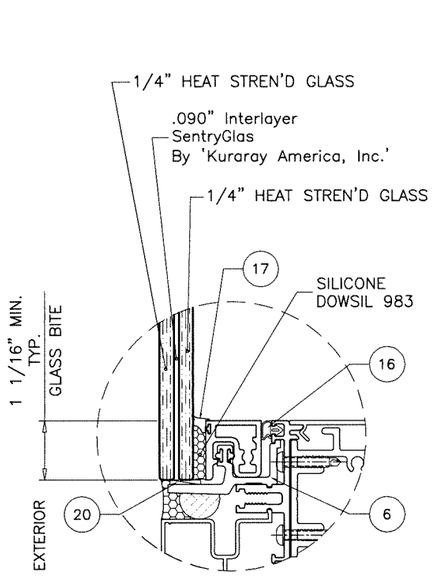
sheet 3.2 of 21

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

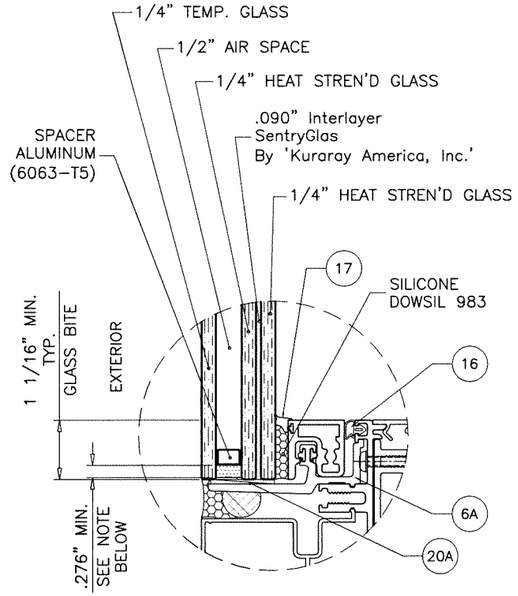
INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



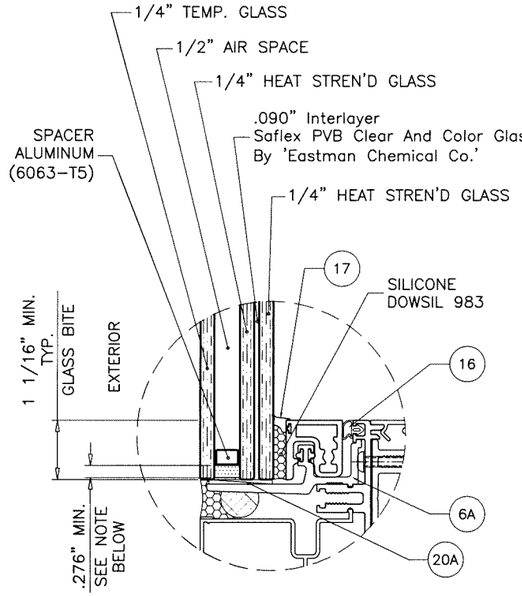




GLASS TYPE 'A'
9/16" LAM. GLASS



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



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

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

GLAZING OPTIONS

SECONDARY SEAL FOR INSUL. LAM. GLASS IN SSG UNITS:
ULTIMATE TENSILE STRENGTH PER ASTM C1135 = 150 PSI MIN.

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300–16 (3 SEC. GUSTS).

Sealed: 8/19/2026

FL #27401

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

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\19-18F-MG

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

MULLION DESIGN LOAD CAPACITY – PSF
SINGLE SPANS

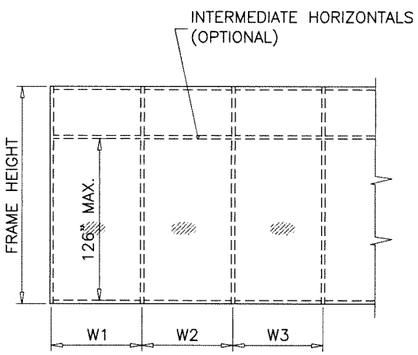
NOMINAL DIMS.		JAMB 'J1' MULL 'M1'		JAMB 'J1' MULL 'M2'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
36"	96"	65.0	65.0	85.0	85.0
42"		65.0	65.0	85.0	85.0
48"		65.0	65.0	85.0	85.0
54"		65.0	65.0	85.0	85.0
60"		65.0	65.0	85.0	85.0
66"		65.0	65.0	85.0	85.0
72"		65.0	65.0	85.0	85.0
36"	108"	65.0	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
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.

MULLION DESIGN LOAD CAPACITY – PSF
SINGLE SPANS

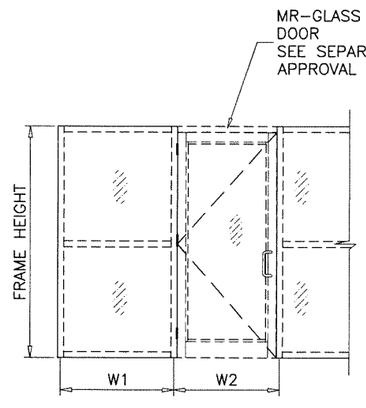
NOMINAL DIMS.		JAMB 'J2' MULL 'M4'		JAMB 'J2' MULL 'M6'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
36"	120"	75.0	75.0	80.0	90.0
42"		75.0	75.0	80.0	90.0
48"		75.0	75.0	80.0	90.0
54"		75.0	75.0	80.0	90.0
60"		75.0	75.0	80.0	90.0
66"		75.0	75.0	80.0	90.0
72"		75.0	75.0	80.0	90.0
36"	132"	75.0	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
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
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
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
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.

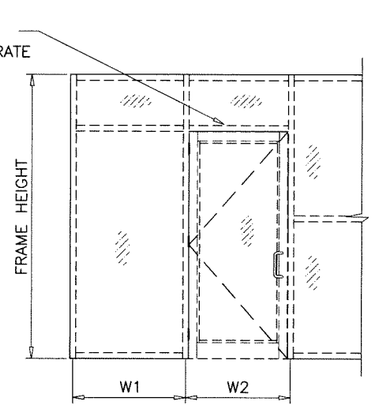


WIDTH (W) = W1
AT JAMB

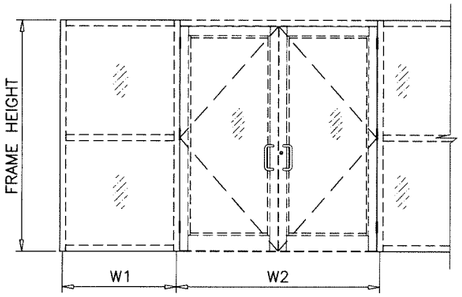
WIDTH (W) = $\frac{W2 + W3}{2}$
AT MULLION



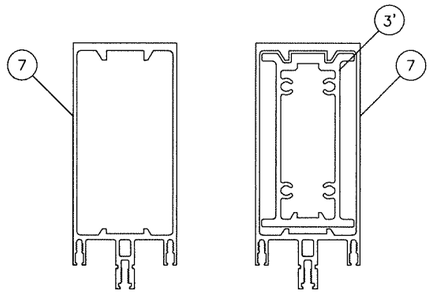
WIDTH (W) = $\frac{W1 + W2}{2}$
AT MULLION



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



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

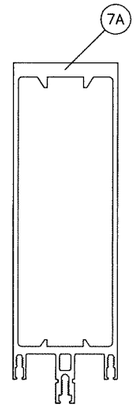


JAMB 'J1'
MULLION 'M1'

Ix IN^4	Sx IN^3
13.52	3.96

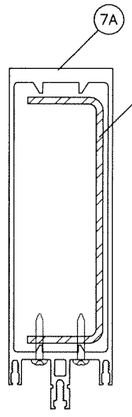
MULLION 'M2'

Ix IN^4	Sx IN^3
20.92	6.13



JAMB 'J2'
MULLION 'M4'

Ix IN^4	Sx IN^3
41.55	8.36

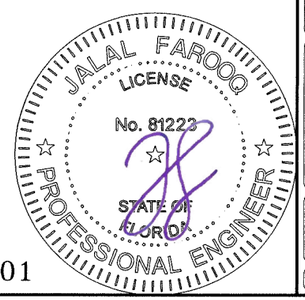


MULLION 'M6'

FULL LENGTH FOR MULLION UPTO 144" HEIGHTS
FOR MULLION HEIGHTS ABOVE 144"
CHANNEL LENGTH TO BE 144" MAX.
AND CENTERED IN SPAN
WITH (2) #12 X 1–1/4 ST/ST SCREWS

	Ix IN^4	Sx IN^3
ALUMINUM	41.55	8.36
STEEL	10.18	3.13
TOTAL Ix ALUM + Ix STL X 2.9	71.1	

Sealed: 8/19/2026



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

COMP–ANL\19–18F–MG

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

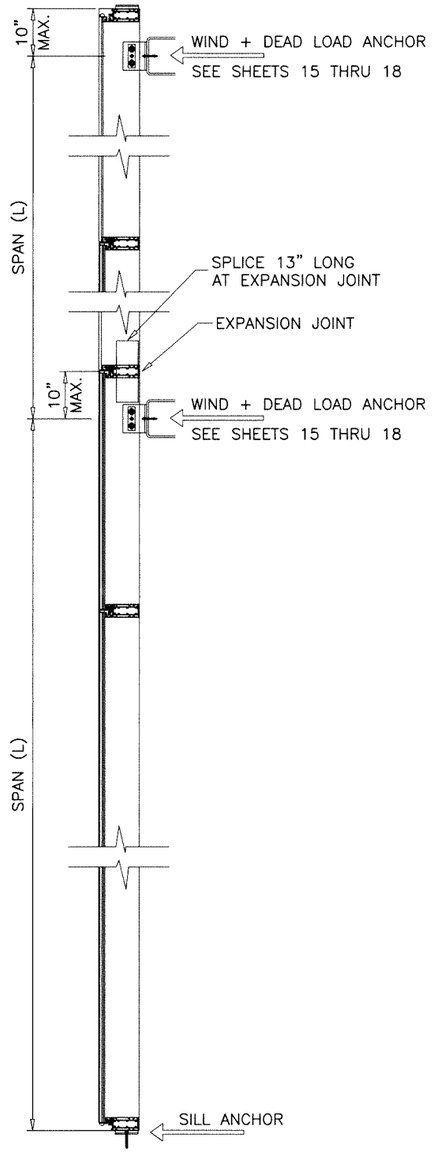
sheet 5 of 21

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
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
36"	144"	85.0	85.0
42"		85.0	85.0
48"		85.0	85.0
54"		80.5	80.5

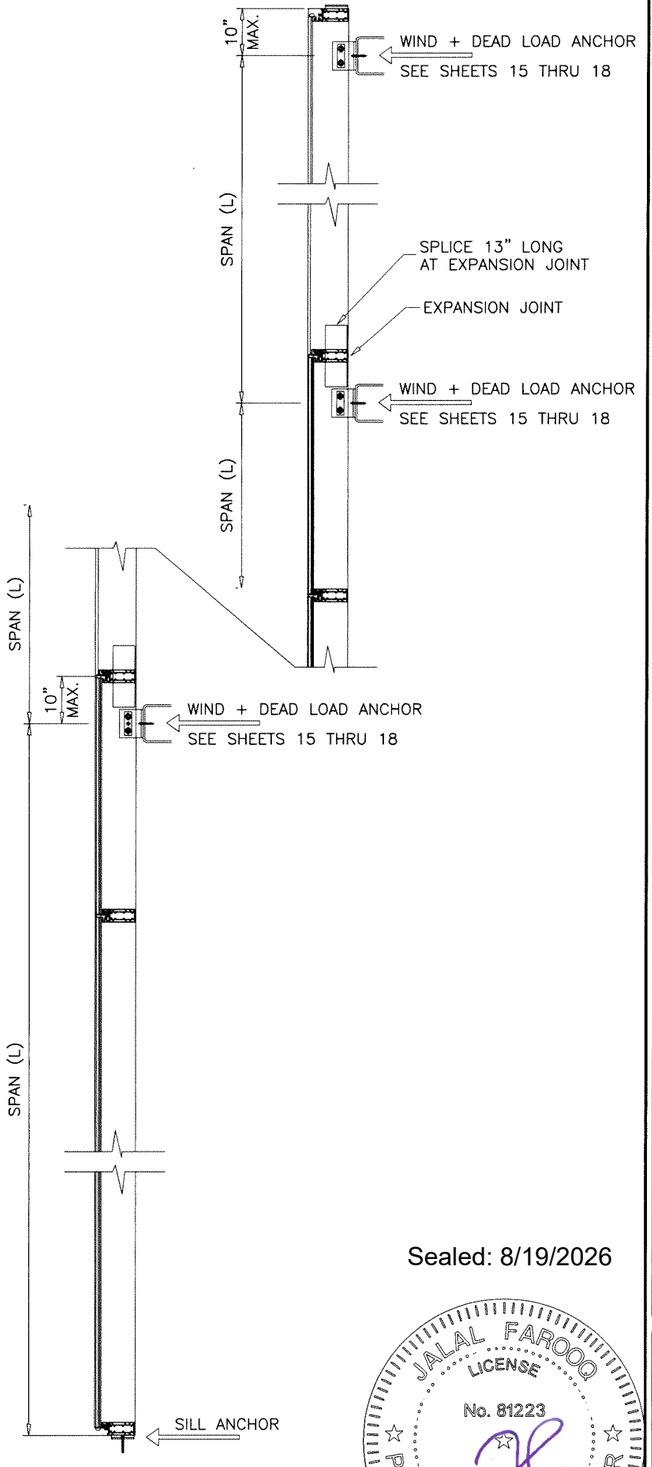
INTERPOLATION BETWEEN WIDTHS ALLOWED.

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
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
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
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
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.



TWO SPANS



MULTIPLE SPANS

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

Sealed: 8/19/2026

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

COMP-ANL\19-18F-MG

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

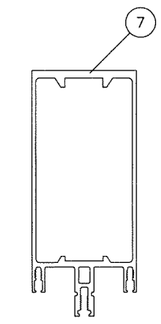
date: 03-15-19
scale: –
dr. by: TARIQ
chk. by:

drawing no. 19–18F

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

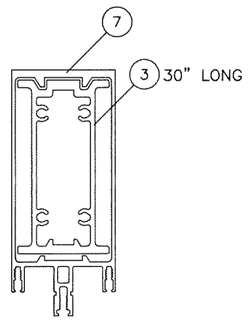
MULLION DESIGN LOAD CAPACITY – PSF TWO SPANS & MULTIPLE SPANS			
NOMINAL DIMS.		JAMB 'J2' MULL 'M4'	
WIDTH (W)	SPAN (L)	EXT.(+)	INT.(–)
42"	120"	90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
60"		90.0	90.0
42"	126"	90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
60"		90.0	90.0
42"	132"	90.0	90.0
48"		90.0	90.0
54"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



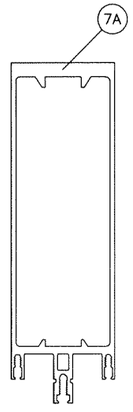
JAMB 'J1'

Ix IN^4	Sx IN^3
13.52	3.96



MULLION 'M6'

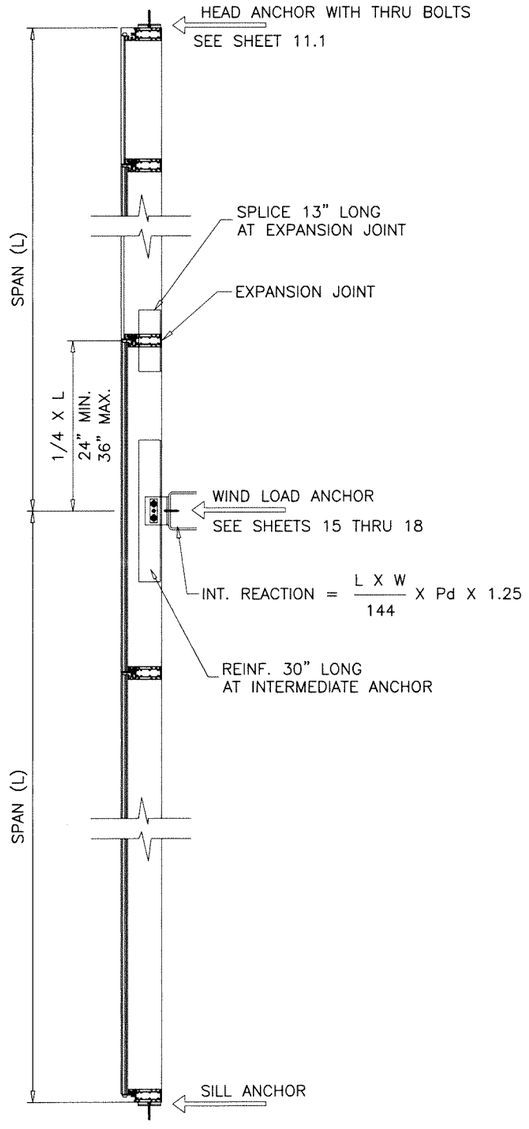
Ix IN^4	Sx IN^3
20.92	6.13



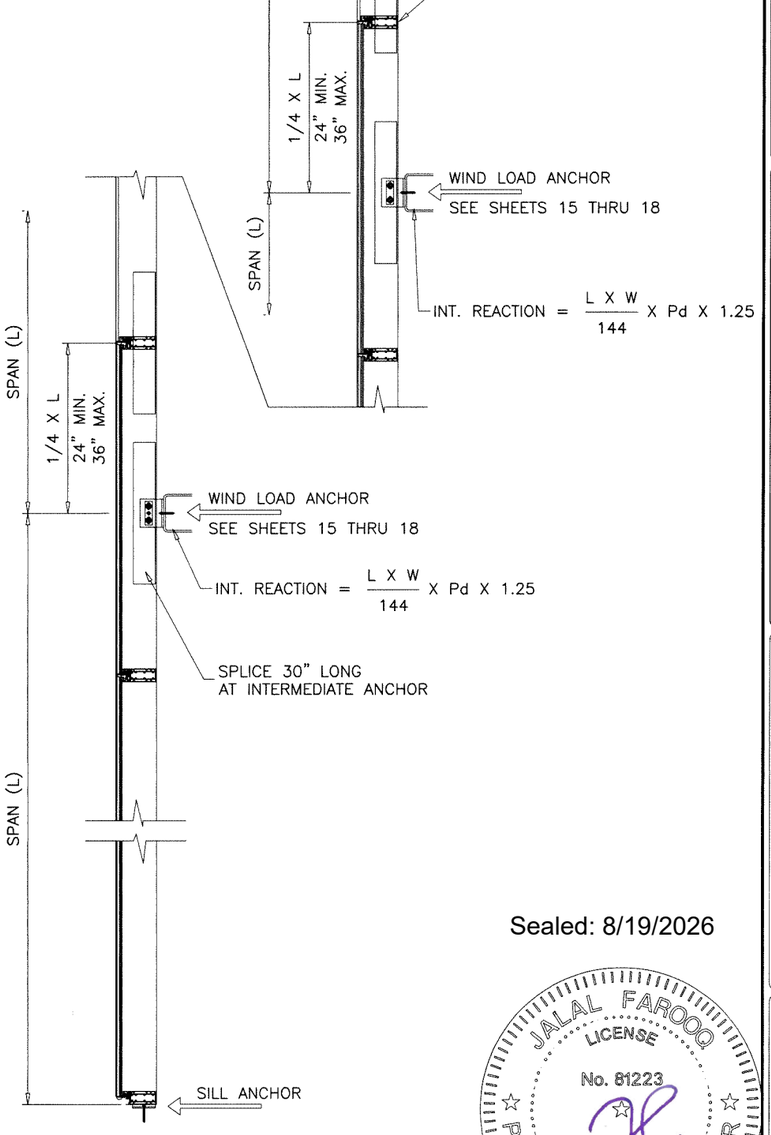
JAMB 'J2'
MULLION 'M4'

Ix IN^4	Sx IN^3
41.55	8.36

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



TWO SPANS WITH EXPANSION JOINTS



MULTIPLE SPANS WITH EXPANSION JOINTS

Sealed: 8/19/2026

JALAL FAROOQ
LICENSE
No. 81223
STATE OF FLORIDA
PROFESSIONAL ENGINEER

FL #27401

afc
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\19-18F-MG

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:

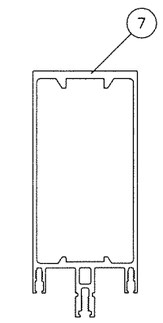
drawing no. 19–18F

sheet 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

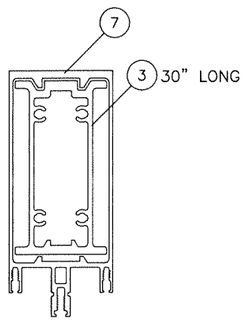
MULLION DESIGN LOAD CAPACITY – PSF TWO SPANS & MULTIPLE SPANS			
NOMINAL DIMS.		JAMB 'J2' MULL 'M4'	
WIDTH (W)	SPAN (L)	EXT.(+)	INT.(–)
42"	120"	90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
60"		90.0	90.0
42"	126"	90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
60"		90.0	90.0
42"	132"	90.0	90.0
48"		90.0	90.0
54"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



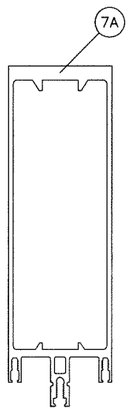
JAMB 'J1'

Ix IN^4	Sx IN^3
13.52	3.96



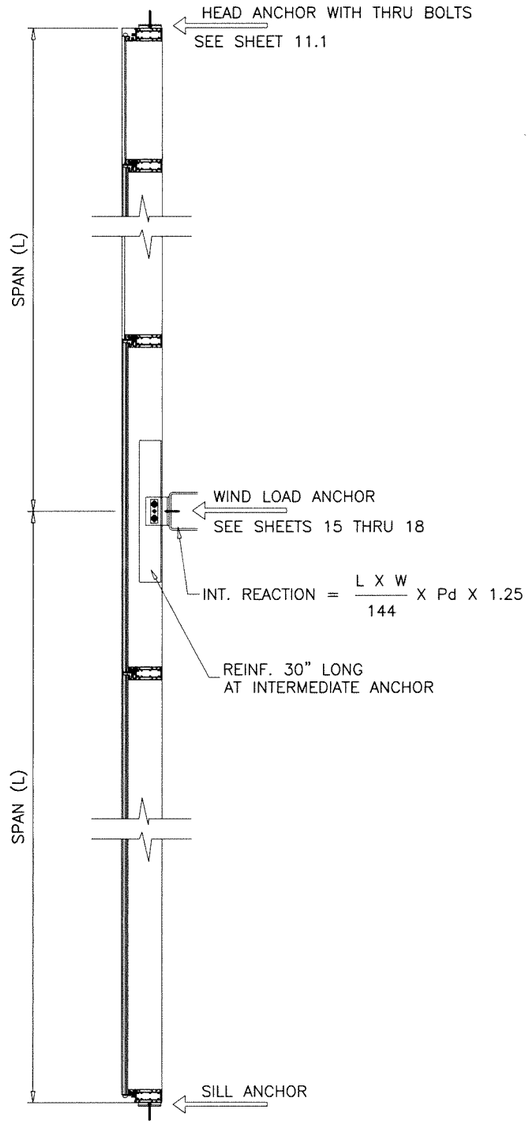
MULLION 'M6'

Ix IN^4	Sx IN^3
20.92	6.13



JAMB 'J2'
MULLION 'M4'

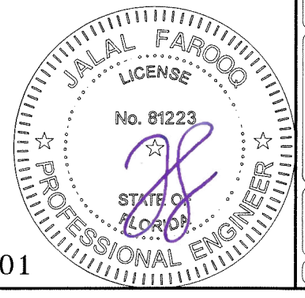
Ix IN^4	Sx IN^3
41.55	8.36



TWO SPANS WITHOUT EXPANSION JOINTS

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

Sealed: 8/19/2026



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

COMP-ANL\19-18F-MG

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:

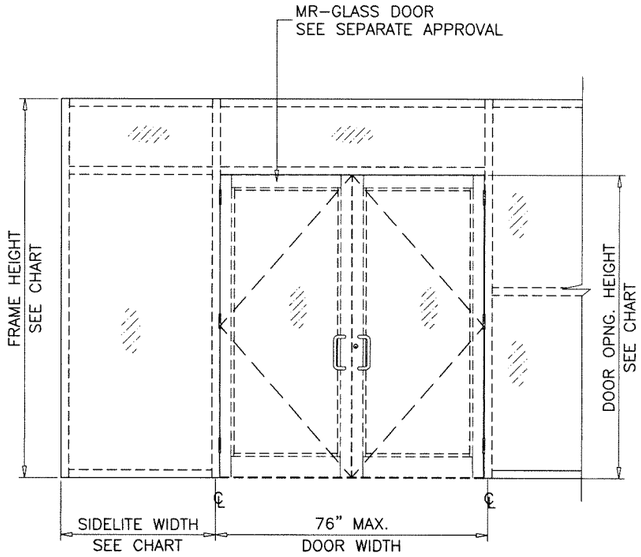
no	date	by	description

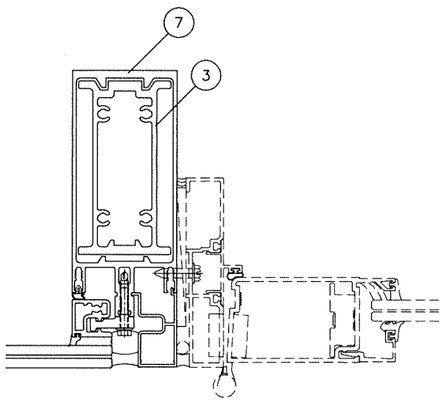
date: 03-15-19
scale: –
dr. by: TARIQ
chk. by:

drawing no. 19–18F

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

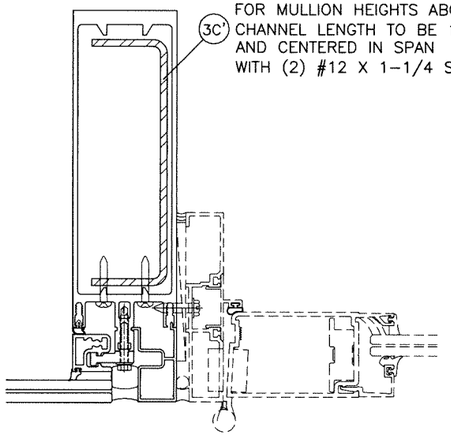
DOOR MULLION LOAD CAPACITY – PSF						
NOMINAL DIMS.			MULL 'DM1'		MULL 'DM2'	
SIDELITE WIDTH INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
36	120	98	85.0	85.0	80.0	90.0
42			85.0	85.0	80.0	90.0
48			85.0	85.0	80.0	90.0
54			85.0	85.0	80.0	90.0
60			85.0	85.0	80.0	90.0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





MULLION 'DM1'

Ix IN^4	Sx IN^3
20.92	6.13



FULL LENGTH FOR MULLION UPTO 144" HEIGHTS
FOR MULLION HEIGHTS ABOVE 144"
CHANNEL LENGTH TO BE 144" MAX.
AND CENTERED IN SPAN
WITH (2) #12 X 1–1/4 ST/ST SCREWS

MULLION 'DM2'

	Ix IN^4	Sx IN^3
ALUMINUM	41.55	8.36
STEEL	10.18	3.13
TOTAL Ix ALUM + Ix STL X 2.9	71.1	

Sealed: 8/19/2026

FL #27401

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

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\19–18F–MG

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 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 KH–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 KH–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.

Sealed: 8/19/2026

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

FL #27401

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

COMP–ANL\19–18F–MG

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

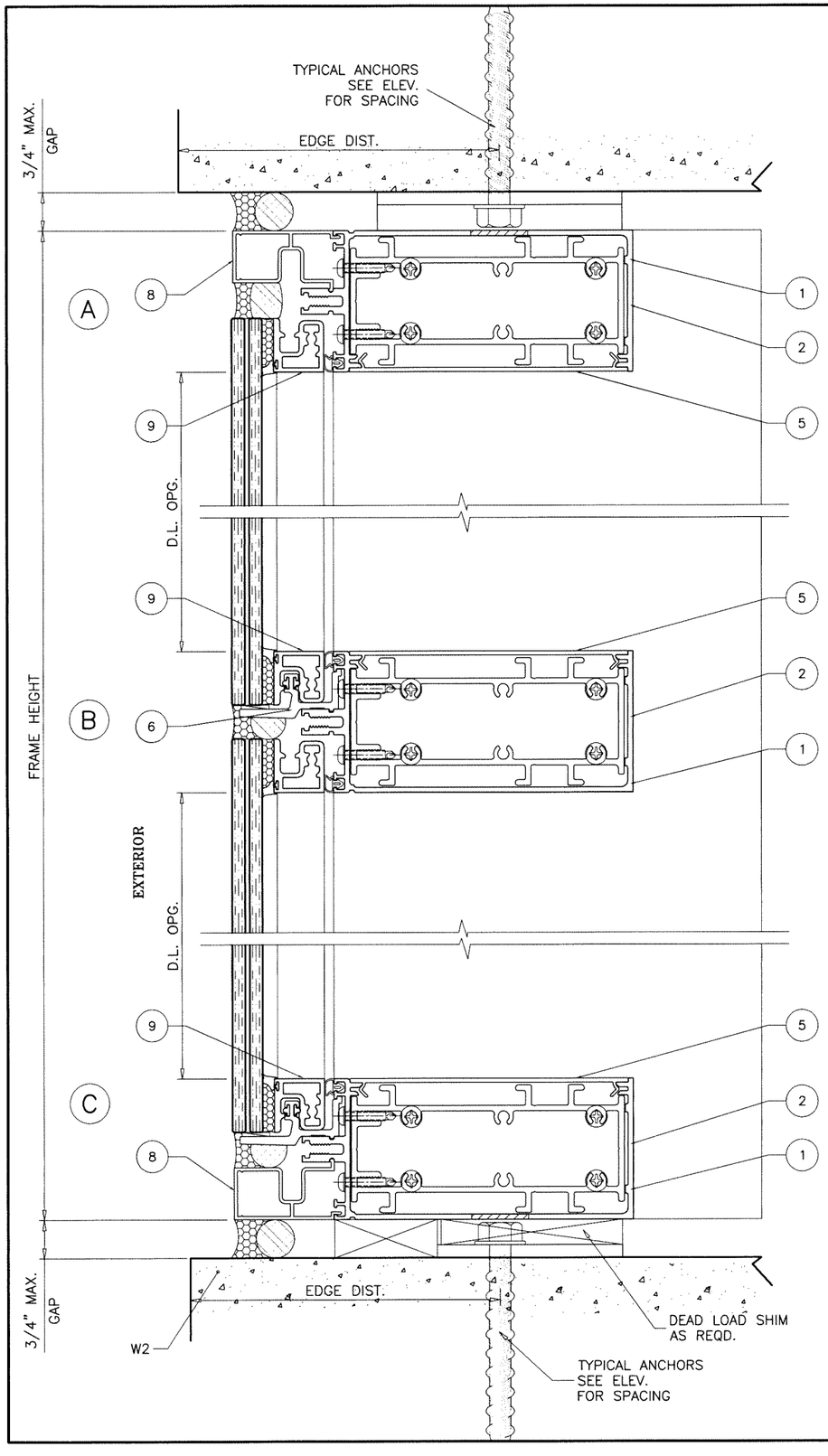
revisions:

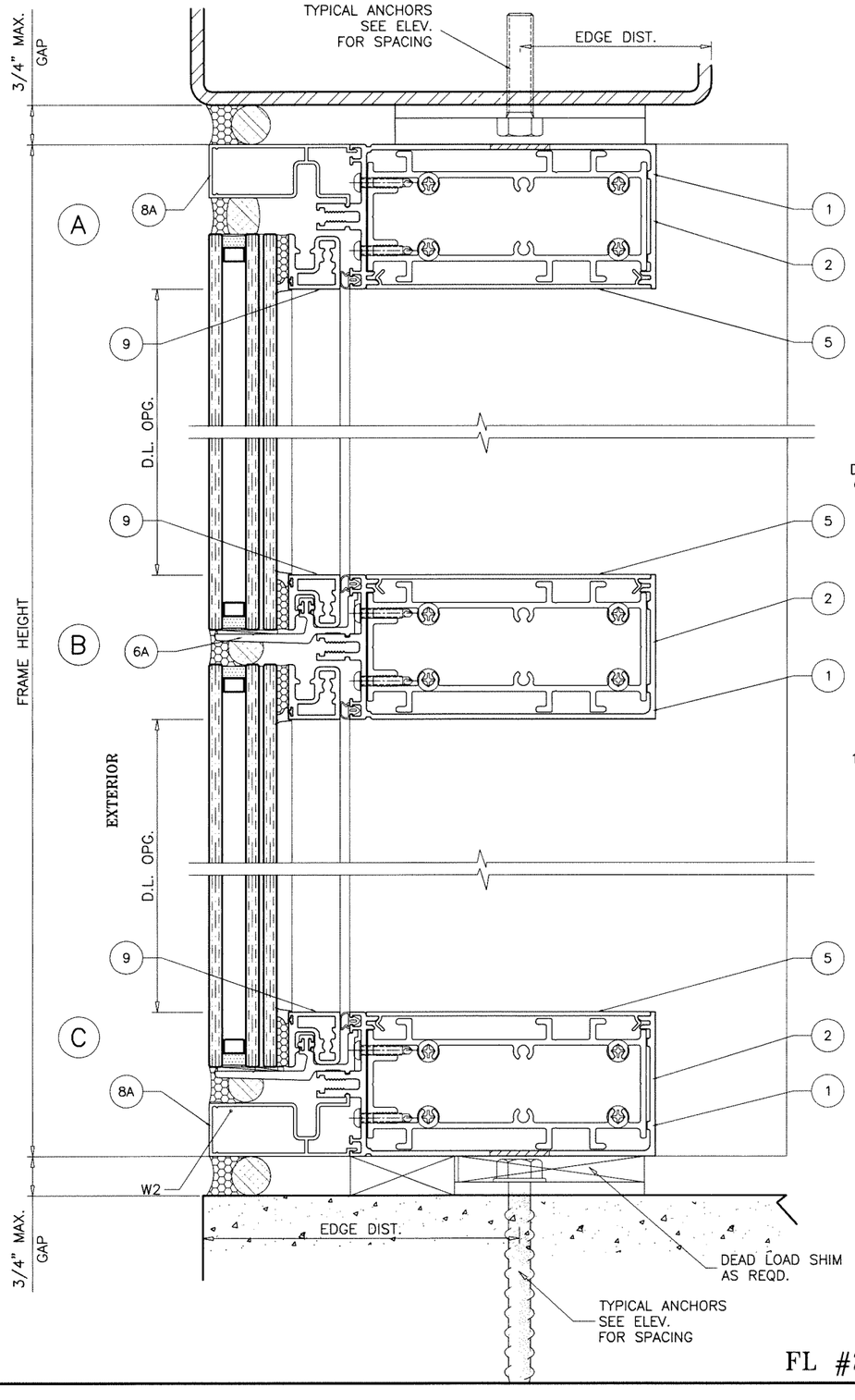
no	date	by	description

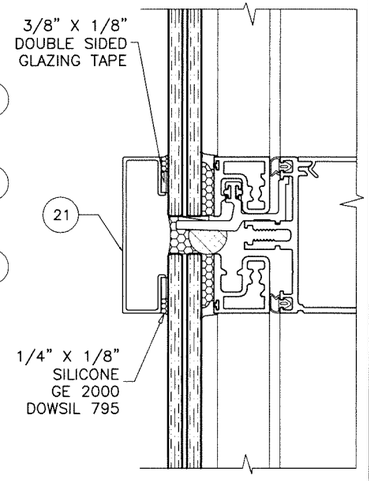
date: 03–15–19
scale: –
dr. by: TARIQ
chk. by:

drawing no. 19–18F

sheet 8 of 21







FL #27401

Sealed: 8/19/2026

JALAL FAROOQ
LICENSE
No. 81223
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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\19-18F-MG

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

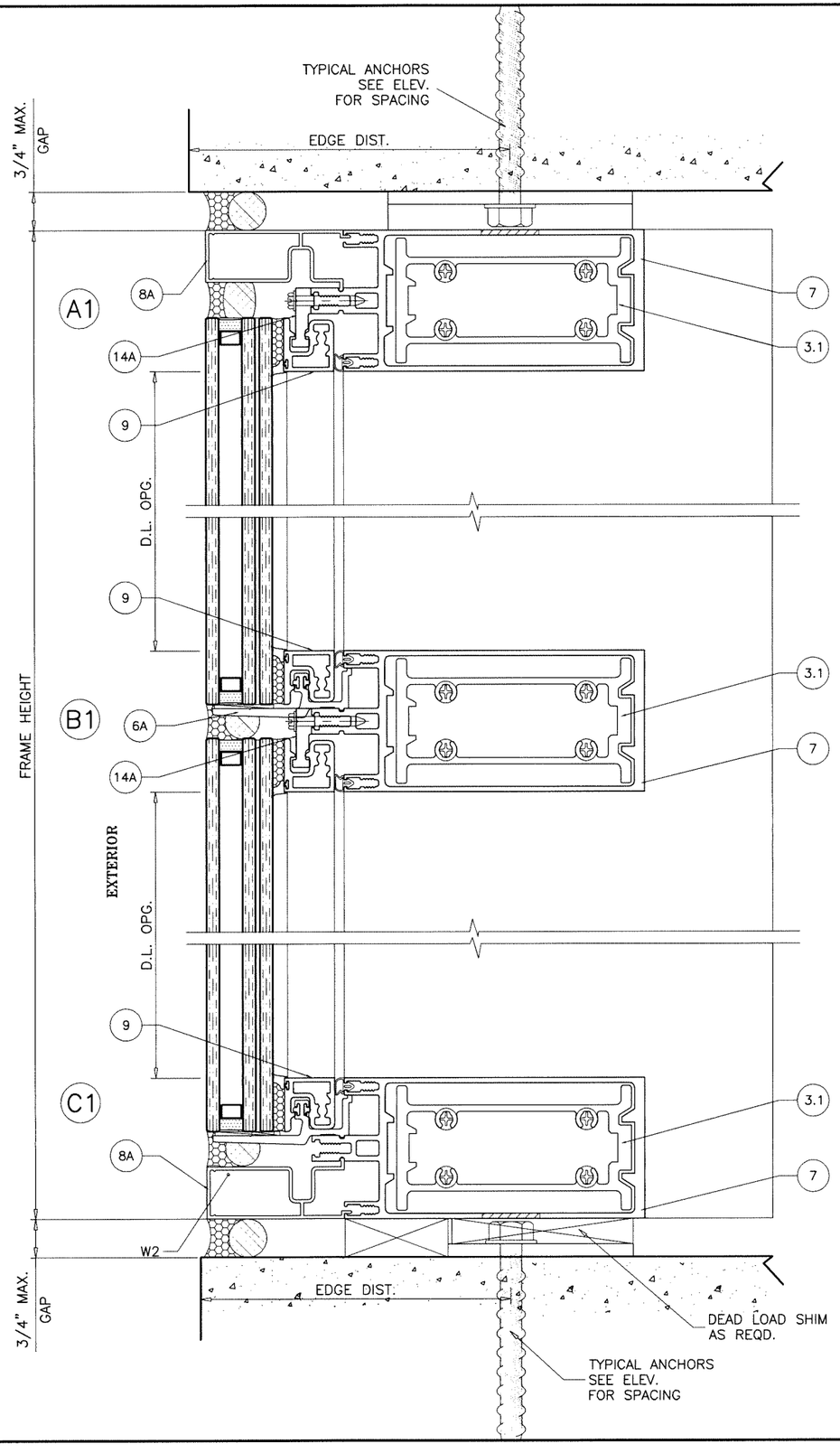
revisions:

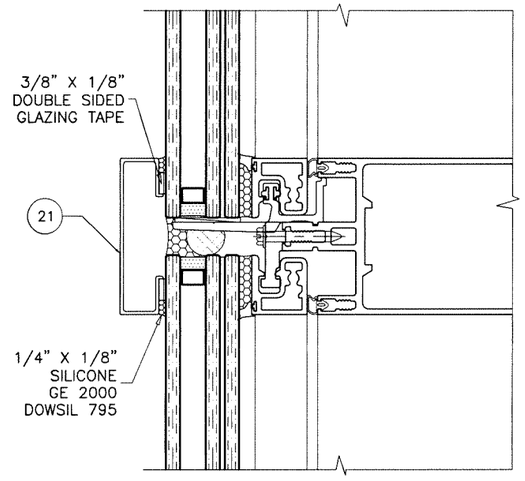
no	date	by	description

date: 03-15-19
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no. 19-18F

sheet 9 of 21





Sealed: 8/19/2026

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

COMP-ANL\19-18F-MG

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

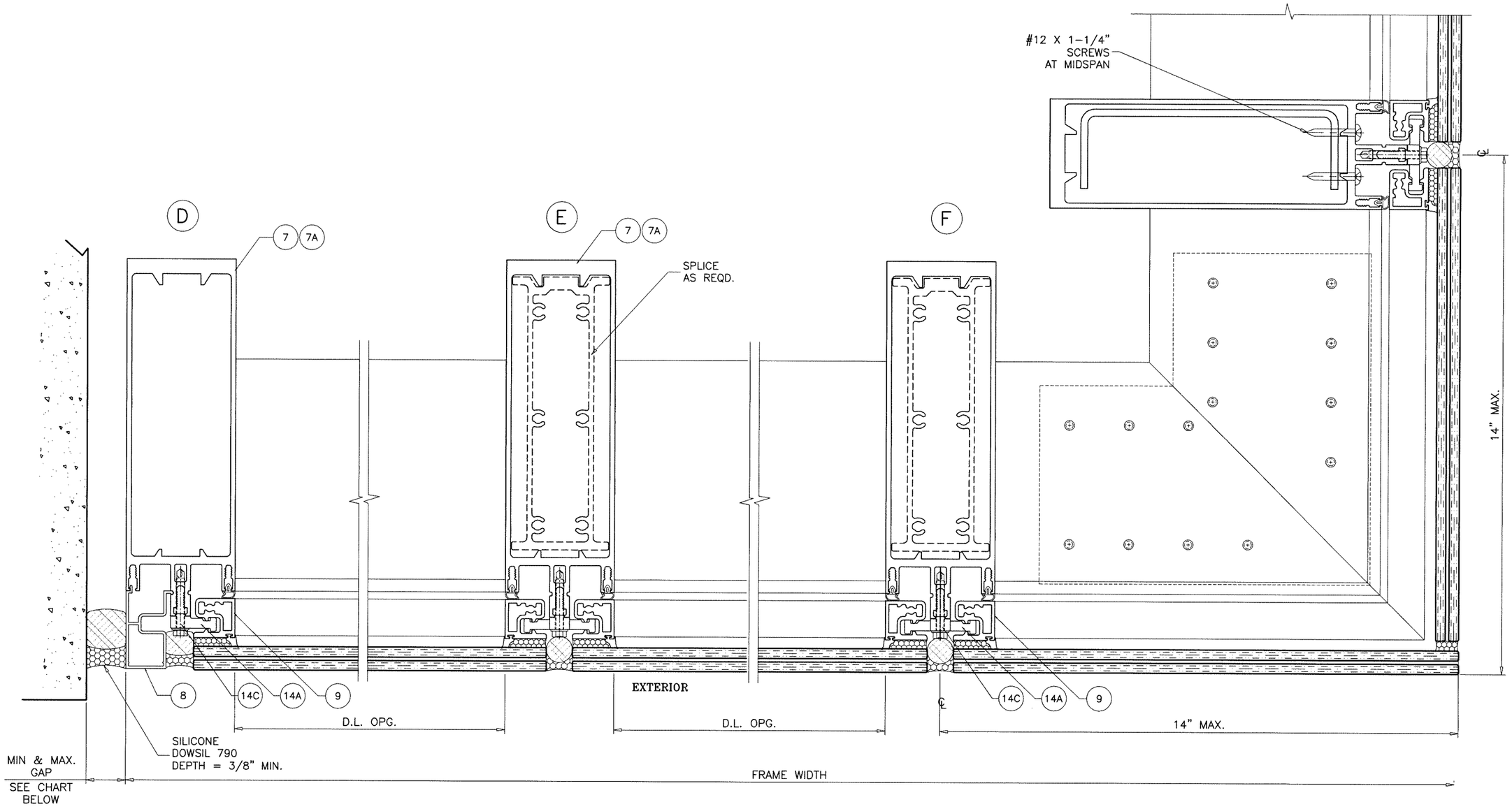
revisions:

no	date	by	description

date: 03-15-19
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no.
19-18F

sheet 9.1 of 21

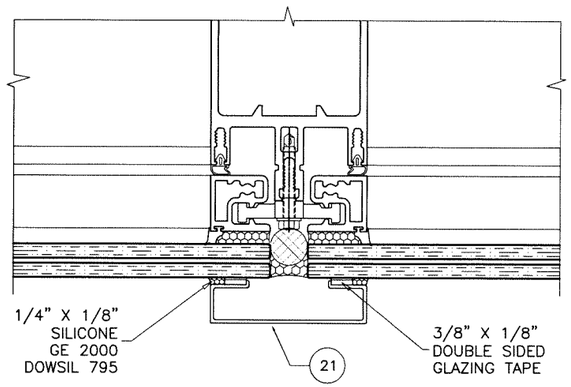


MAX. FRAME HEIGHT	GAP	
	MIN.	MAX.
180"	1/2"	3/4"
204"	5/8"	3/4"

NOTE:
MAX. MOVEMENT CONSIDERED=100% STRETCH.
PLEASE REFER TO SEALANT MANUFACTURER'S DATA AND APPLICATION MANUAL FOR COMPATABILITY OF SEALANT TO SUBSTRATE & WINDOW WALL 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.



Sealed: 8/19/2026

FL #27401

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

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\19-18F-MG

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

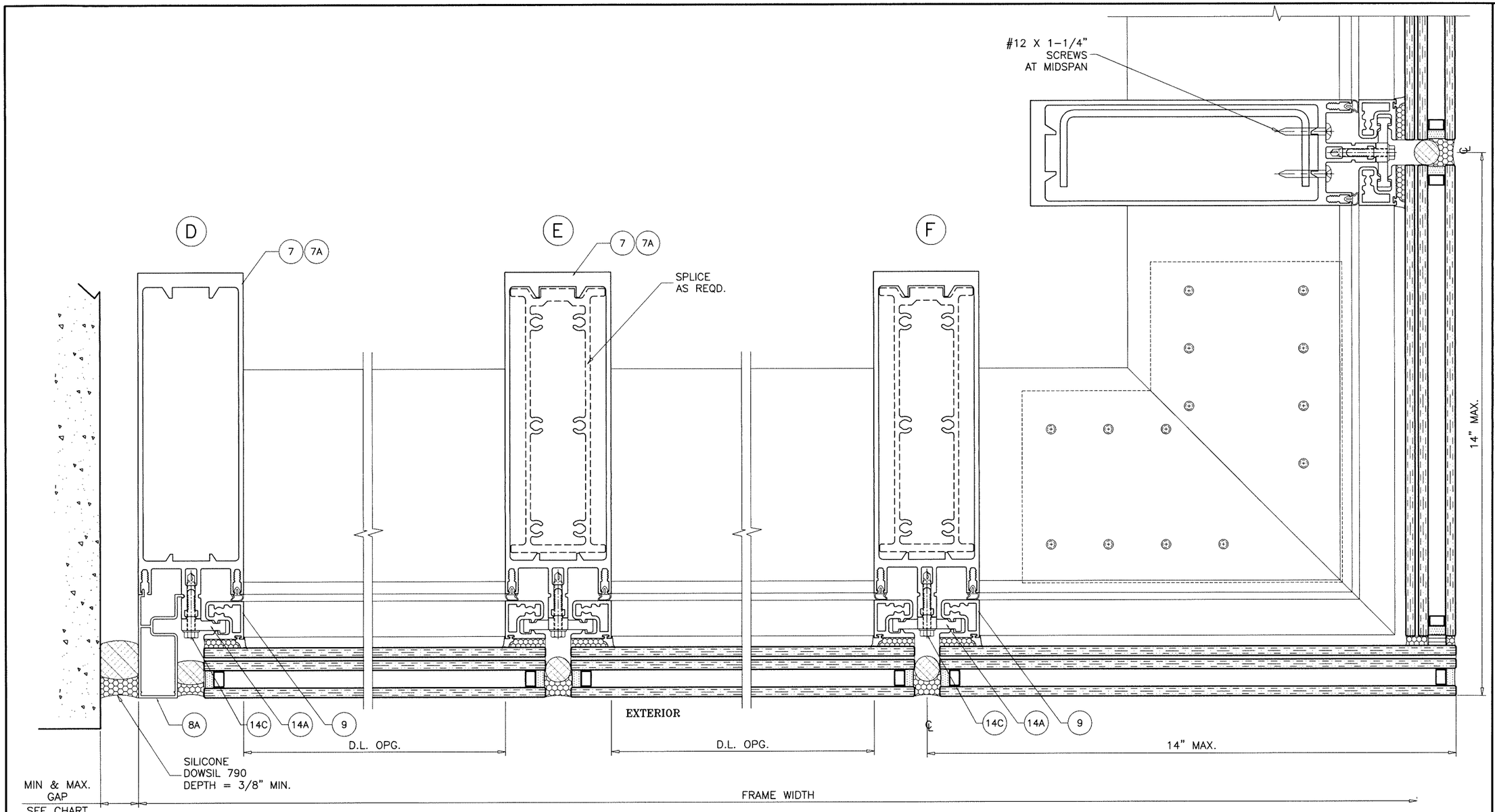
revisions:

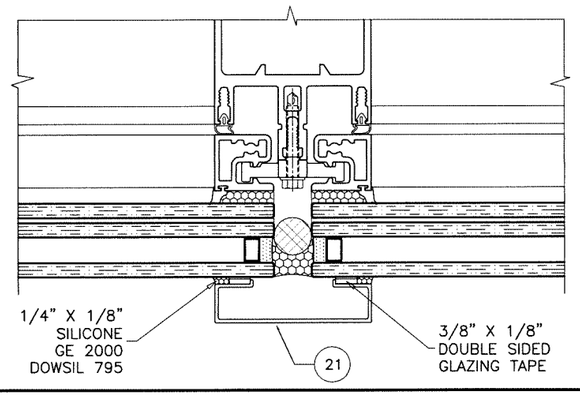
no	date	by	description

date: 03-15-19
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no. 19-18F

sheet 10 of 21





Sealed: 8/19/2026

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

COMP-ANL\19-18F-MG

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

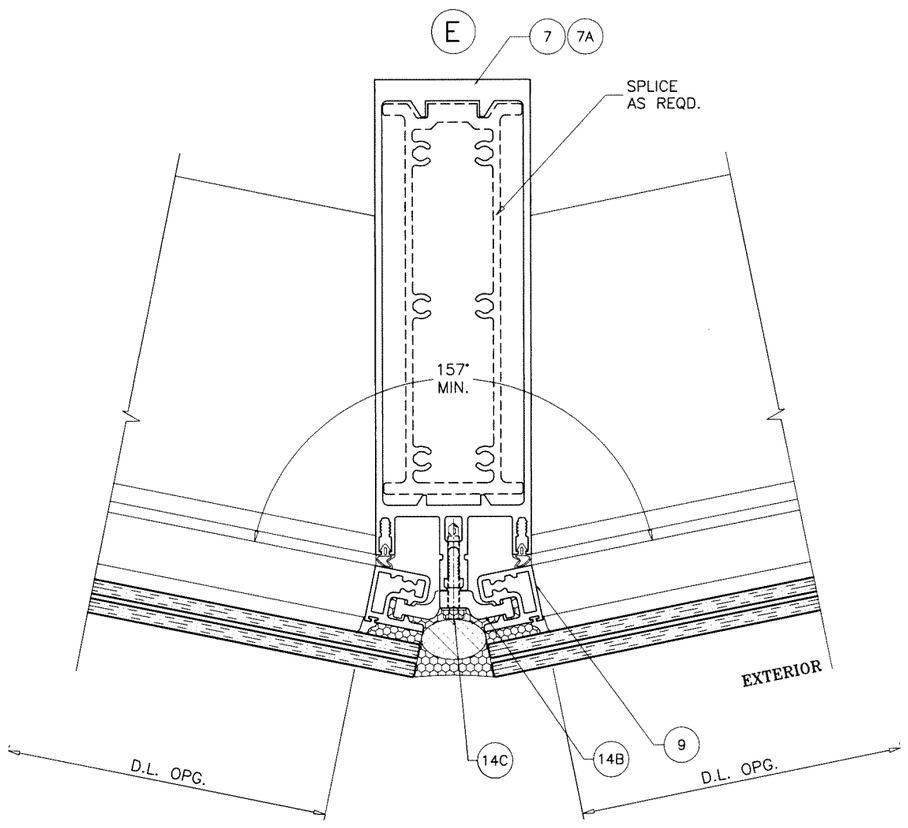
revisions:

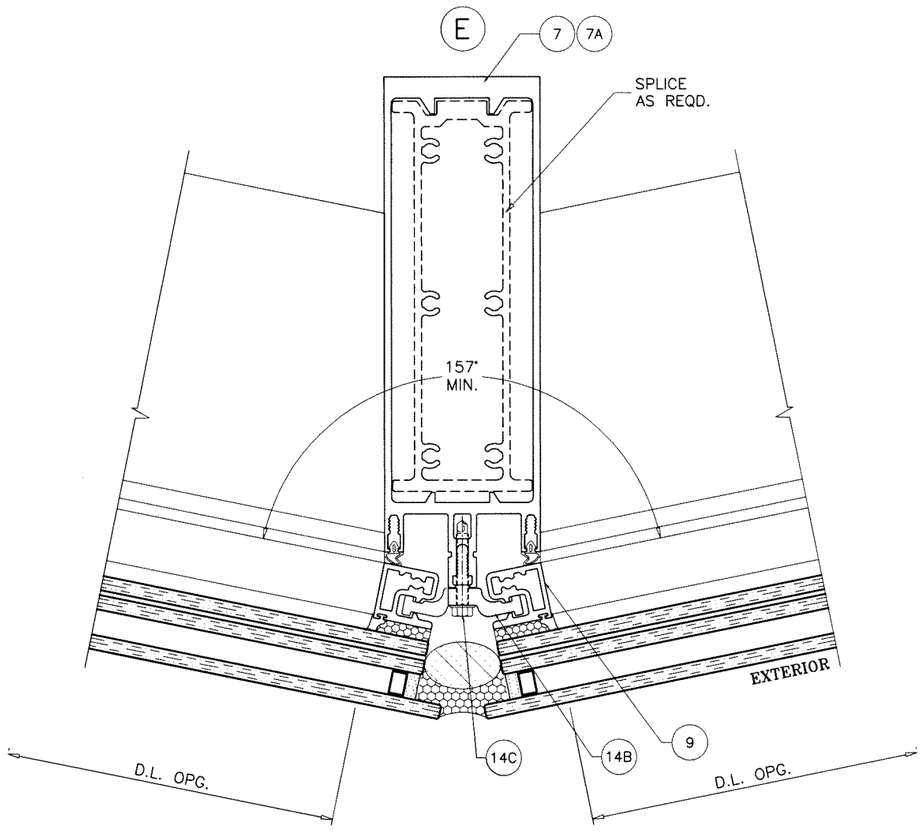
no	date	by	description

date: 03-15-19
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no. 19-18F

sheet 11 of 21





Sealed: 8/19/2026

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

COMP-ANL\19-18F-MG

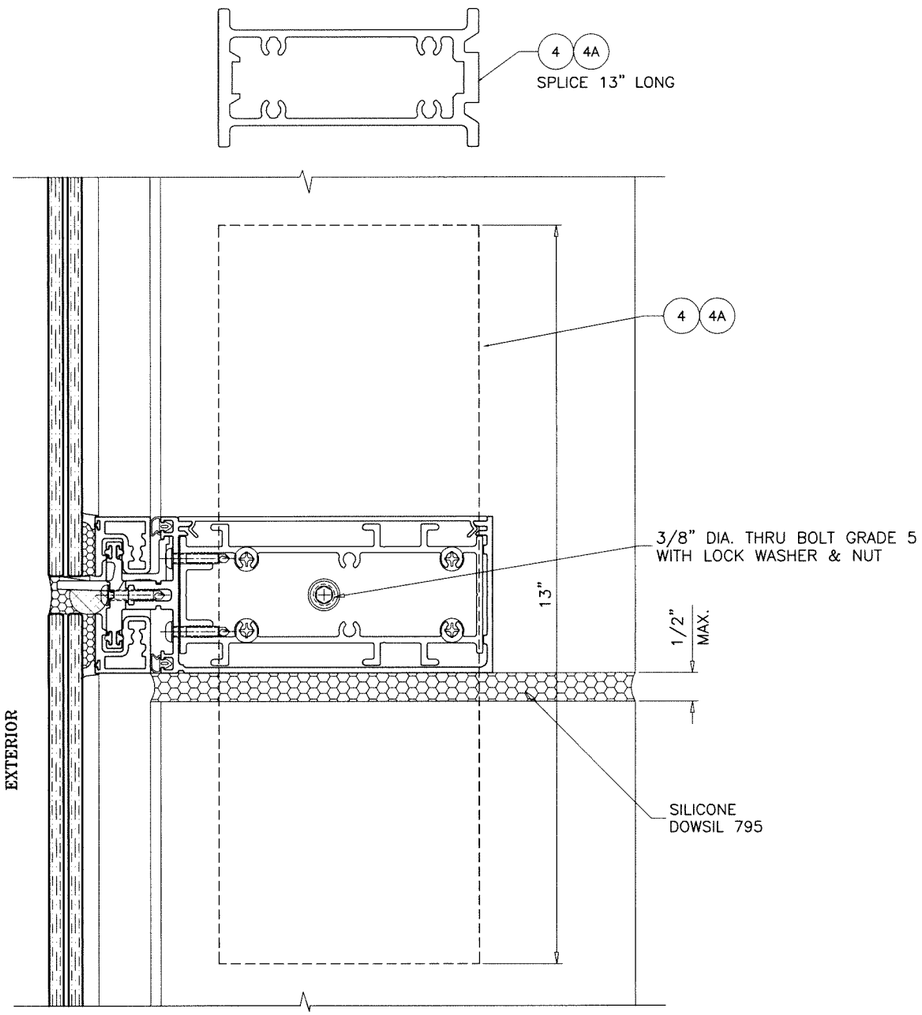
SERIES 2000 STICK ALUM. CURTAIN WALL SYS. (L.M.I.)

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

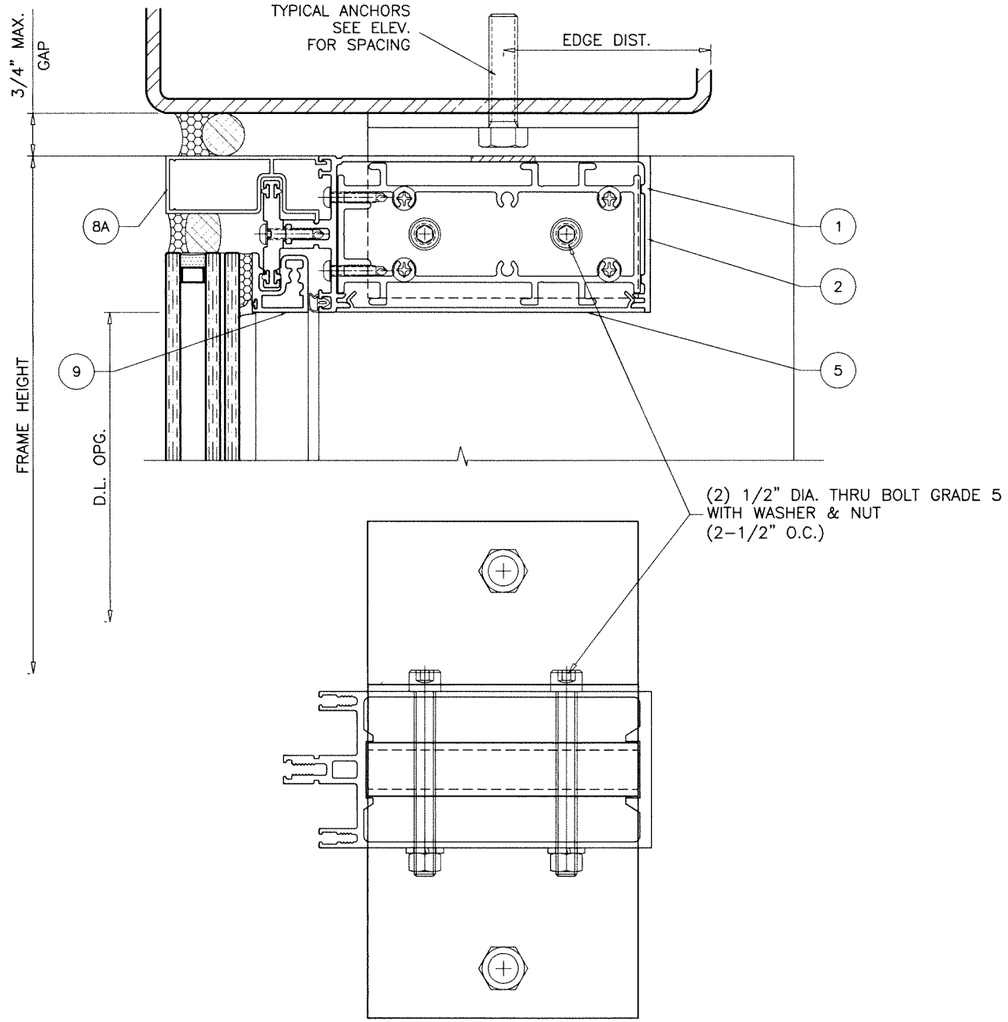
revisions:			
no	date	by	description

date: 03-15-19
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no. 19-18F



EXPANSION JOINT DETAIL



HEAD ANCHOR WITH THRU BOLTS

Sealed: 8/19/2026

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

COMP-ANL\19-18F-MG

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

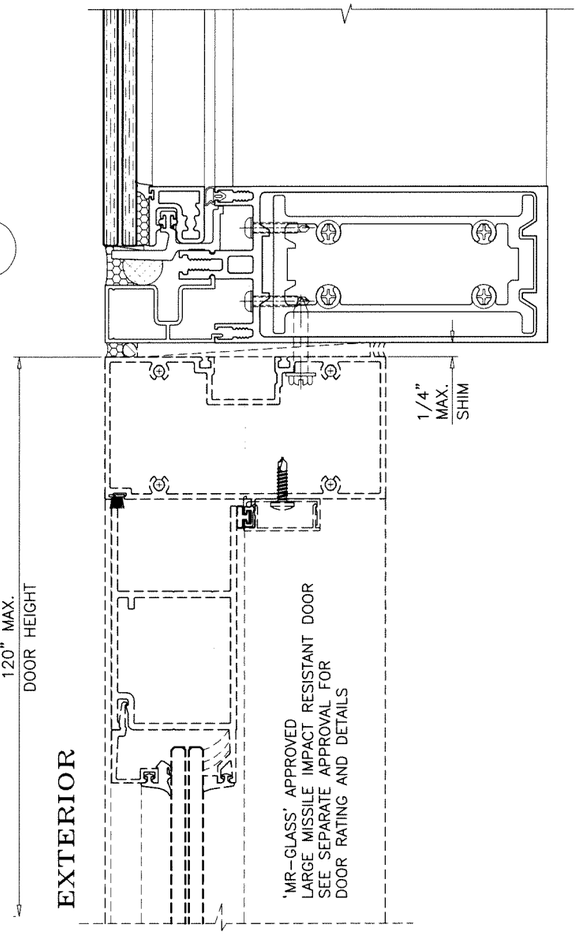
MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL. 33166
Tel. (305) 764-3963 Fax. (305) 470-8285

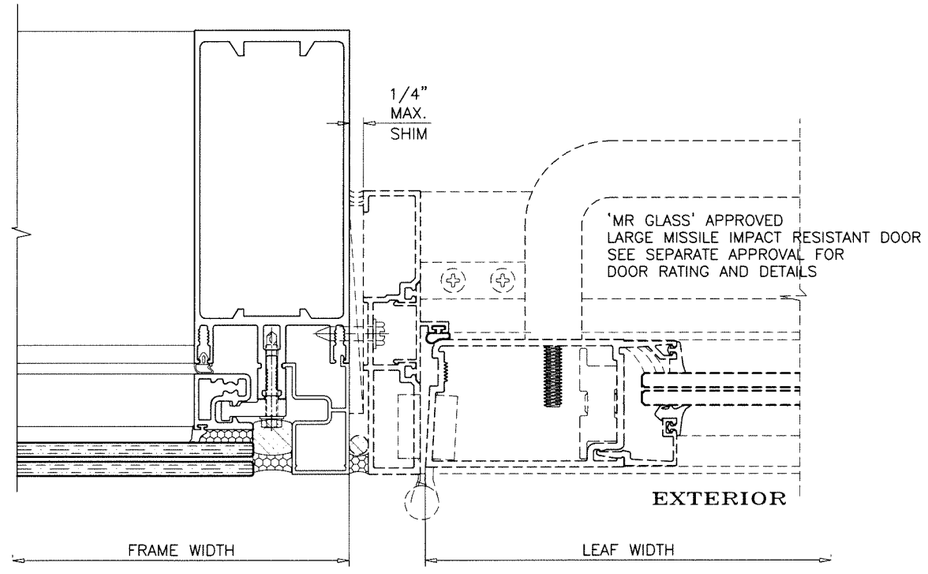
revisions:

no	date	by	description

date: 03-15-19
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no. 19-18F





Sealed: 8/19/2026

FL #27401

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

afc

COMP-ANL\19-18F-MG

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

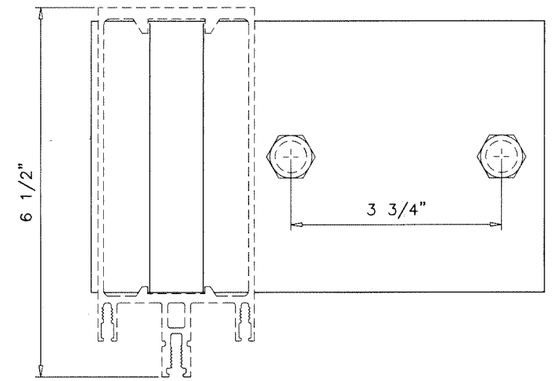
MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL. 33166
Tel. (305) 764-3963 Fax. (305) 470-8285

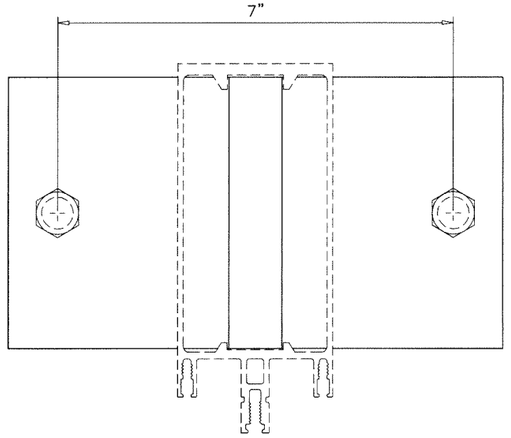
revisions:

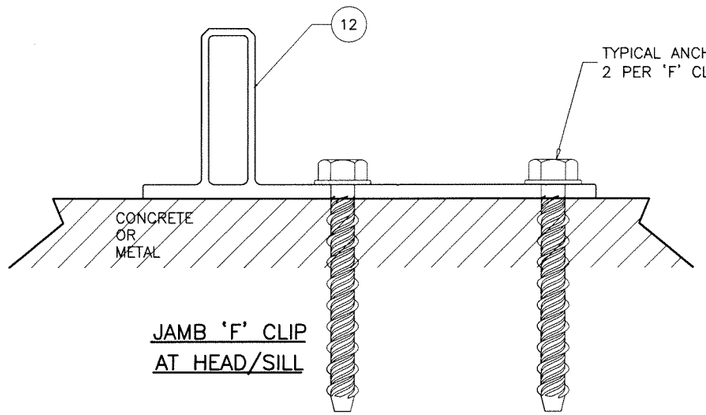
no	date	by	description

date: 03-15-19
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

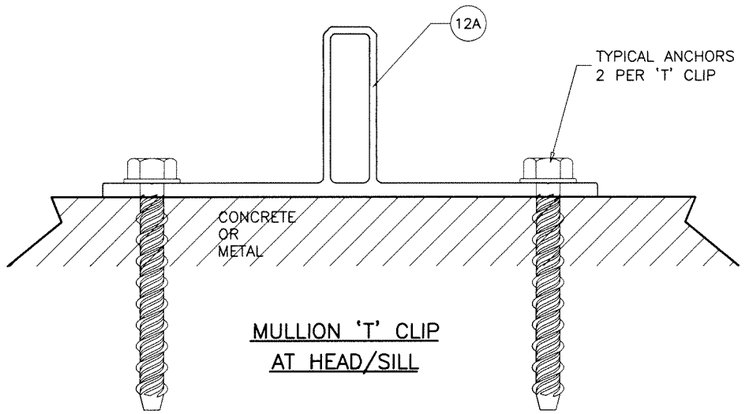
drawing no. 19-18F







JAMB 'F' CLIP
AT HEAD/SILL



MULLION 'T' CLIP
AT HEAD/SILL

ANCHORS TYPE 'A'

Sealed: 8/19/2026

JALAL FAROOQ
LICENSE
No. 61223
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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

COMP-ANL\19-18F-MG

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

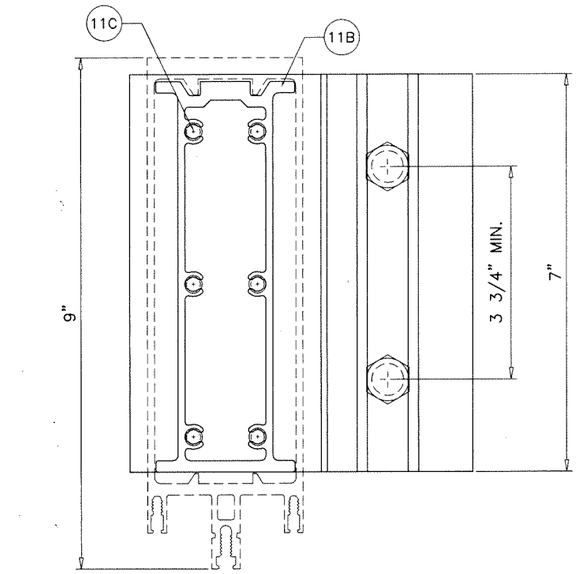
MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL. 33166
Tel. (305) 764-3963 Fax. (305) 470-8285

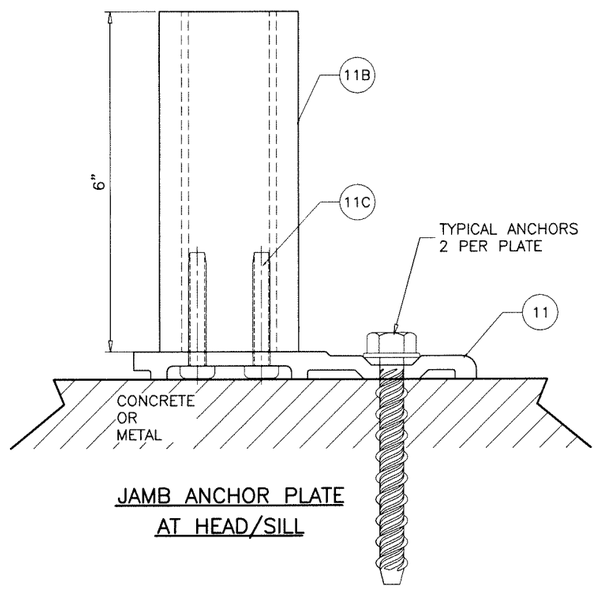
revisions:

no	date	by	description

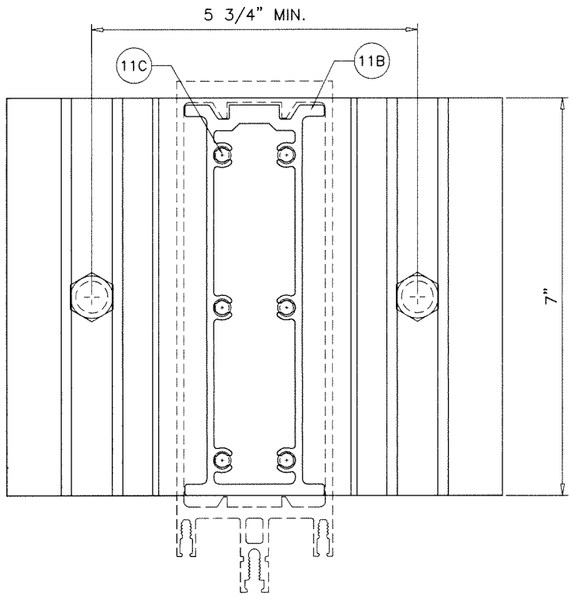
date: 03-15-19
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

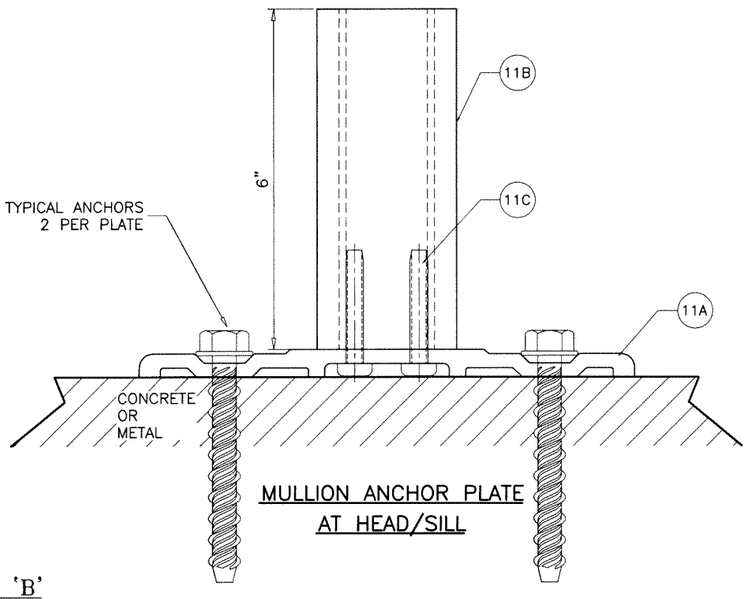
drawing no. 19-18F





JAMB ANCHOR PLATE
AT HEAD/SILL





MULLION ANCHOR PLATE
AT HEAD/SILL

ANCHORS TYPE 'B'

Sealed: 8/19/2026

JALAL FAROOQ
LICENSE
No. 81223
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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

COMP-ANL\19-18F-MG

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

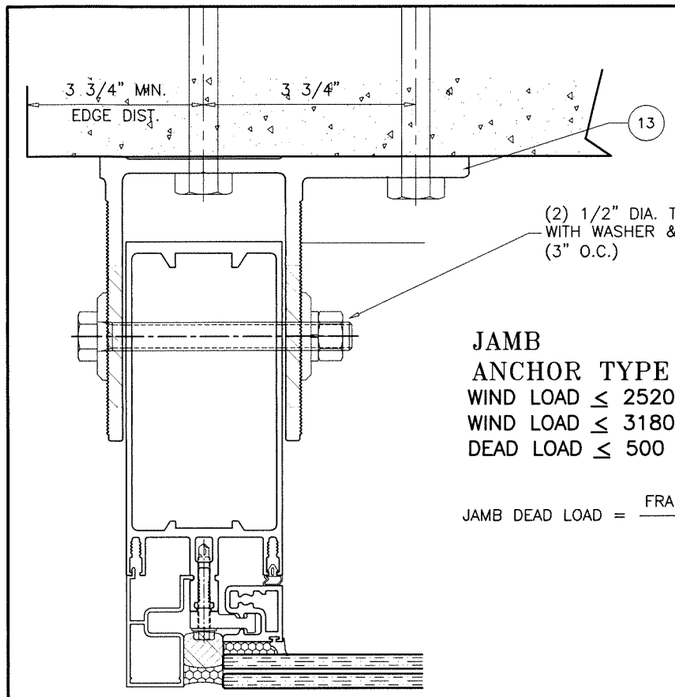
MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL. 33166
Tel. (305) 764-3963 Fax. (305) 470-8285

revisions:

no	date	by	description

date: 03-15-19
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

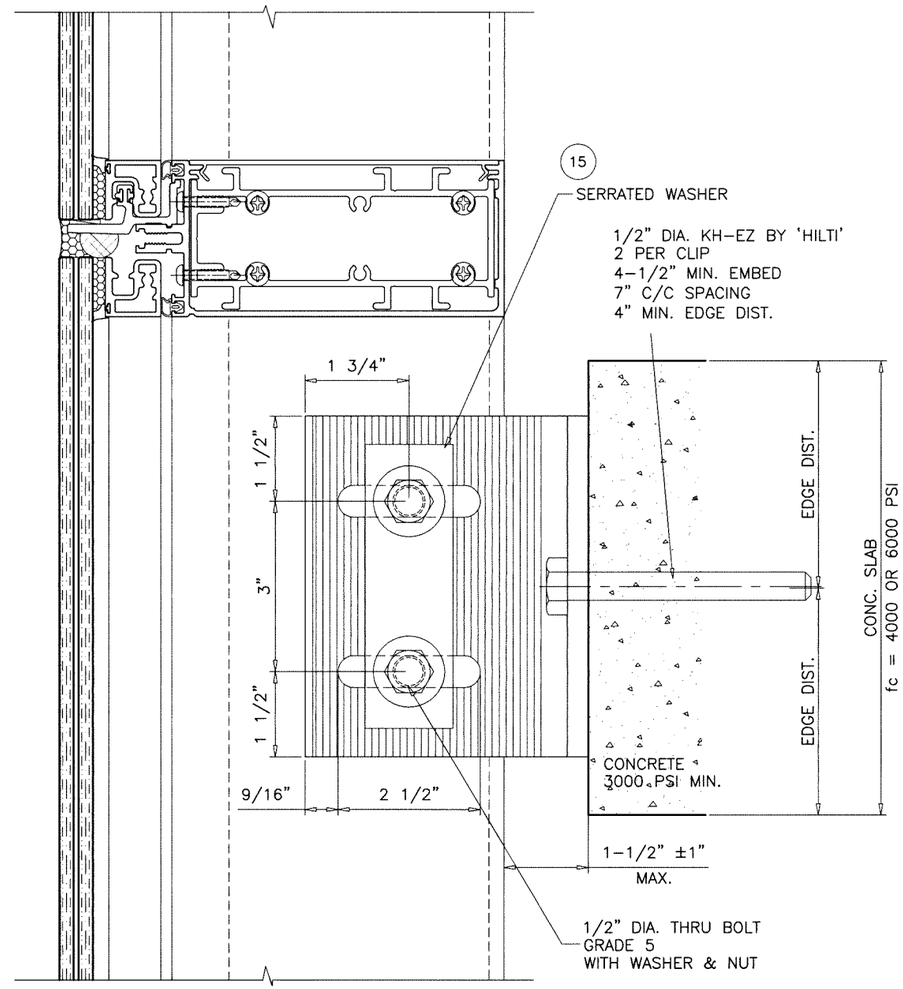
drawing no.
19-18F



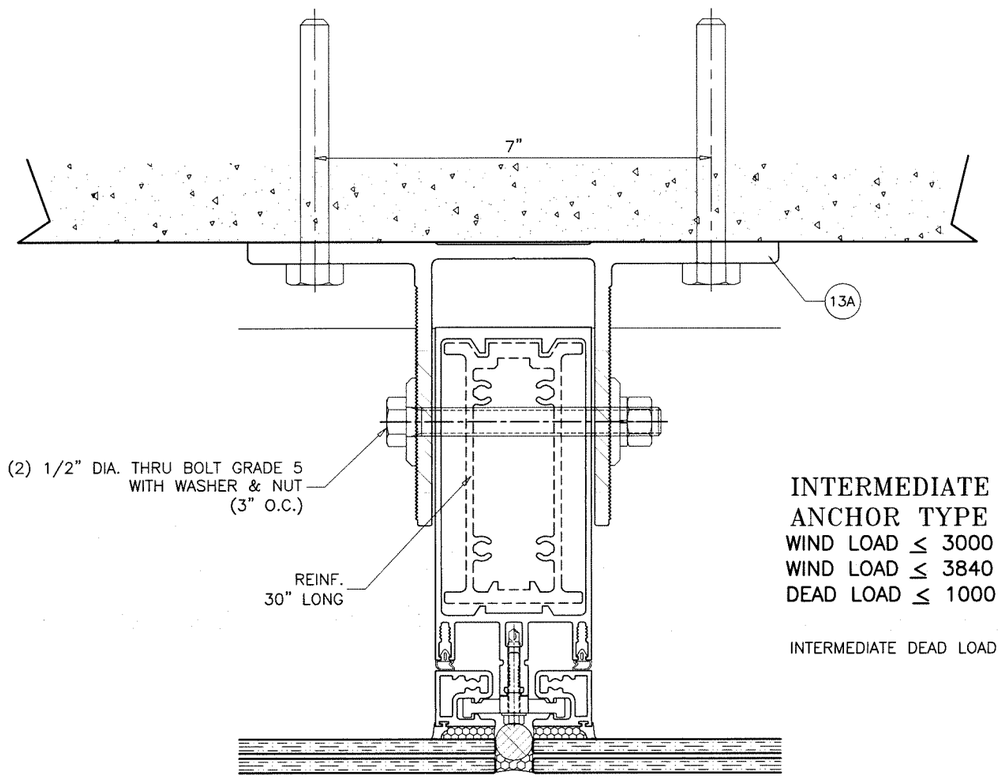
JAMB
ANCHOR TYPE '1'

WIND LOAD ≤ 2520 LBS (4000 PSI CONC.)
WIND LOAD ≤ 3180 LBS (6000 PSI CONC.)
DEAD LOAD ≤ 500 LBS

$$\text{JAMB DEAD LOAD} = \frac{\text{FRAME WIDTH (FT.) X FRAME HT. (FT.)}}{2} \text{ X 13 PSF}$$



INTERMEDIATE ANCHORS



INTERMEDIATE
ANCHOR TYPE '1'

WIND LOAD ≤ 3000 LBS (4000 PSI CONC.)
WIND LOAD ≤ 3840 LBS (6000 PSI CONC.)
DEAD LOAD ≤ 1000 LBS

INTERMEDIATE DEAD LOAD = FRAME WIDTH (FT.) X FRAME HT. (FT.) X 13 PSF

Sealed: 8/19/2026

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

FL #27401

DEAD LOAD ANCHOR

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\19-18F-MG

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

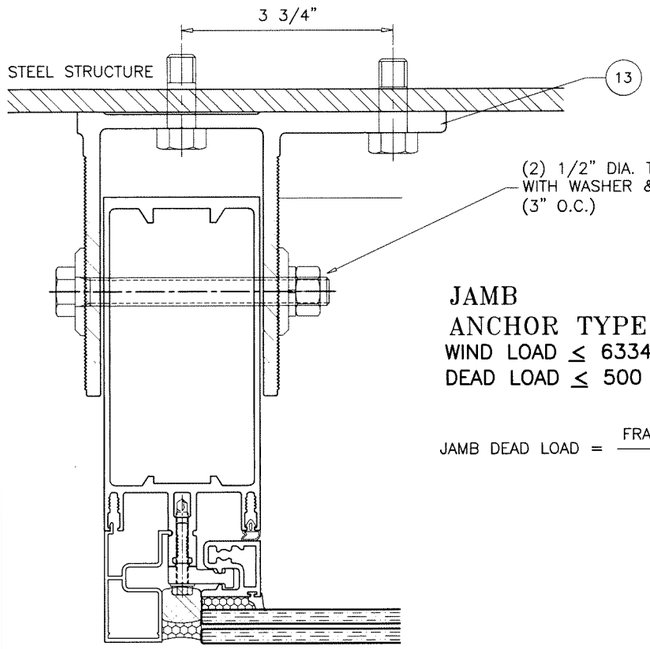
revisions:

no	date	by	description

date: 03-15-19
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

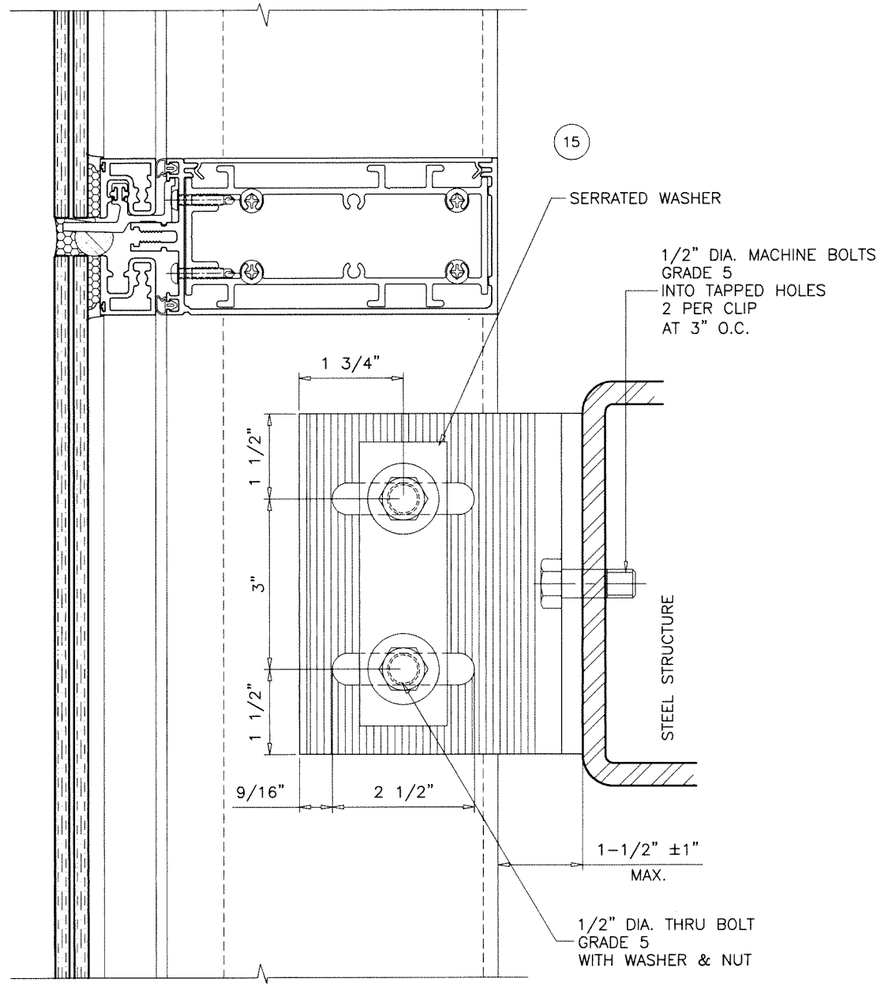
drawing no. 19-18F

sheet 15 of 21

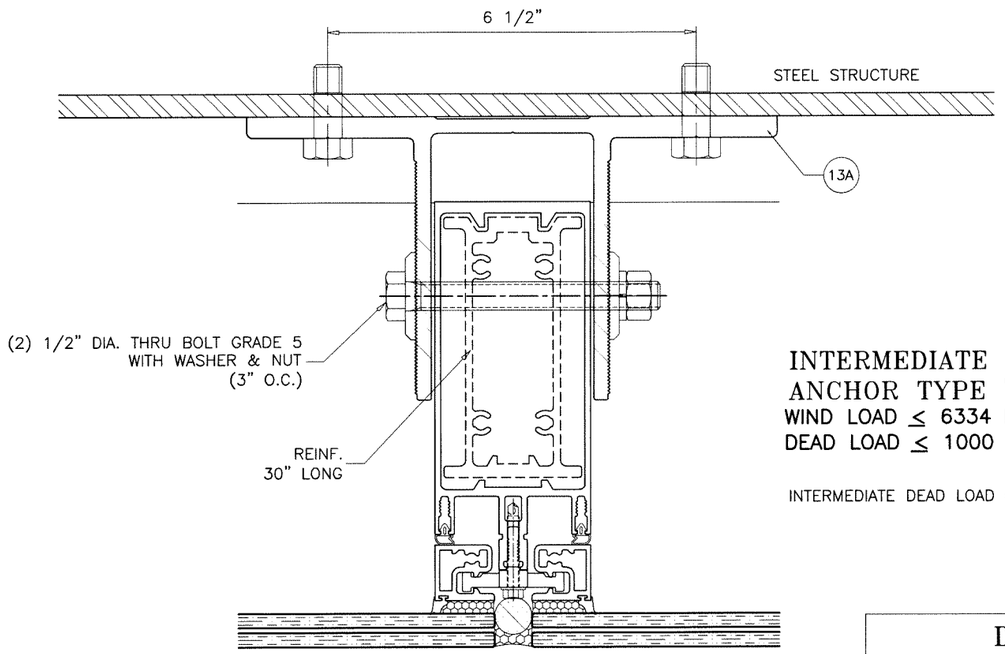


JAMB
ANCHOR TYPE '1'
WIND LOAD ≤ 6334 LBS
DEAD LOAD ≤ 500 LBS

$$\text{JAMB DEAD LOAD} = \frac{\text{FRAME WIDTH (FT.) X FRAME HT. (FT.)}}{2} \text{ X 13 PSF}$$



INTERMEDIATE ANCHORS



INTERMEDIATE
ANCHOR TYPE '1'
WIND LOAD ≤ 6334 LBS
DEAD LOAD ≤ 1000 LBS

INTERMEDIATE DEAD LOAD = FRAME WIDTH (FT.) X FRAME HT. (FT.) X 13 PSF

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

Sealed: 8/19/2026

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

FL #27401

afc
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\19-18F-MG

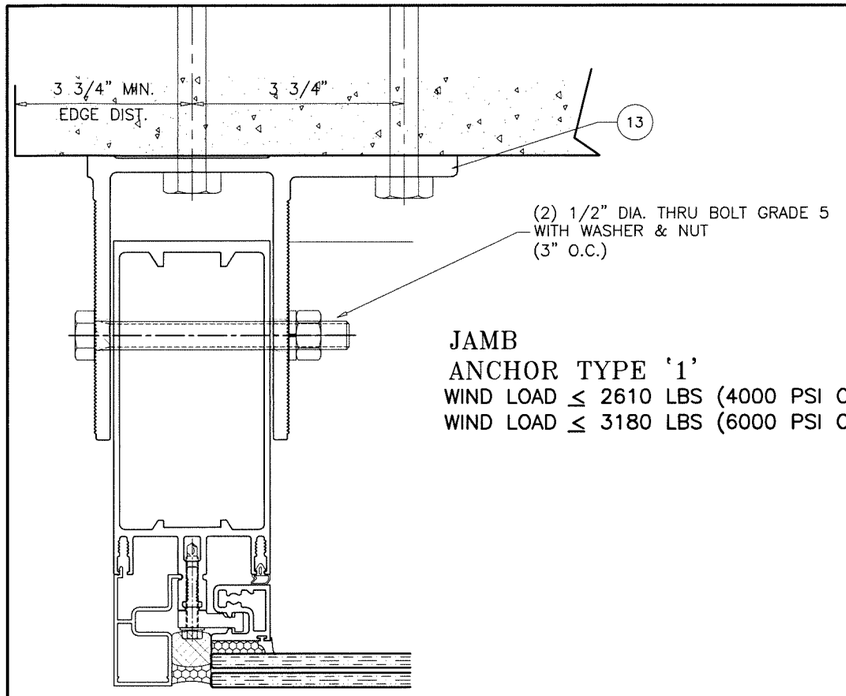
SERIES 2000 STICK ALUM. CURTAIN WALL SYS. (L.M.I.)

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

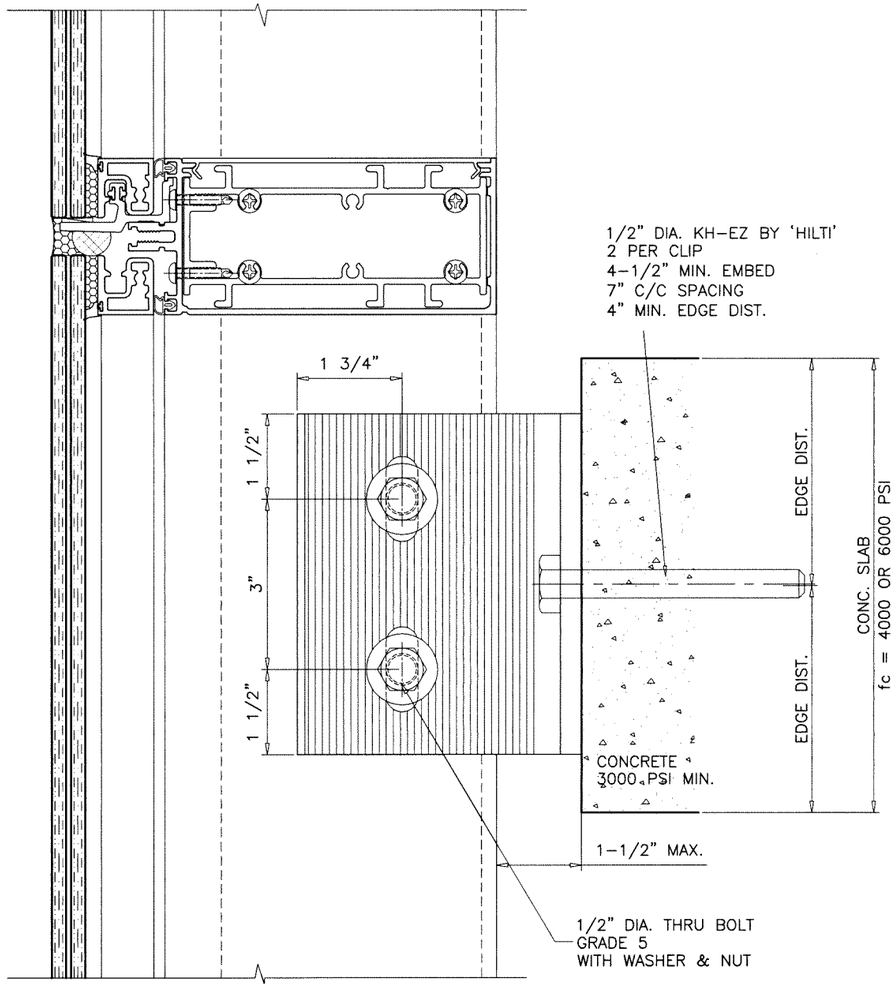
revisions:			
no	date	by	description

date: 03-15-19
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

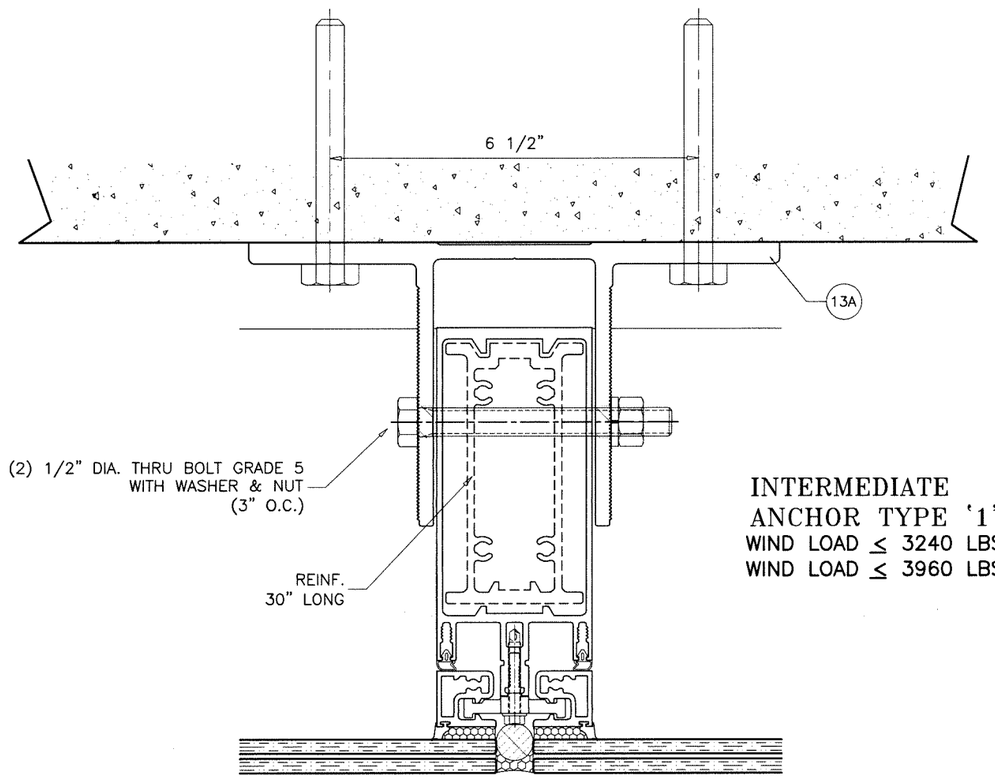
drawing no. 19-18F



JAMB
ANCHOR TYPE '1'
WIND LOAD ≤ 2610 LBS (4000 PSI CONC.)
WIND LOAD ≤ 3180 LBS (6000 PSI CONC.)



INTERMEDIATE ANCHORS



INTERMEDIATE
ANCHOR TYPE '1'
WIND LOAD ≤ 3240 LBS (4000 PSI CONC.)
WIND LOAD ≤ 3960 LBS (6000 PSI CONC.)

Sealed: 8/19/2026

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

FL #27401

WIND LOAD ANCHOR

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

COMP-ANL\19-18F-MG

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

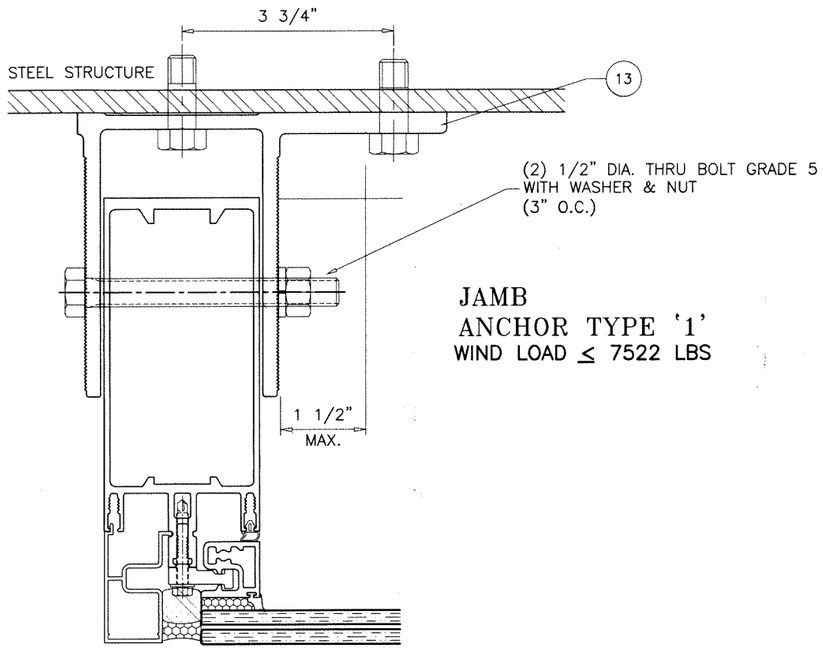
revisions:

no	date	by	description

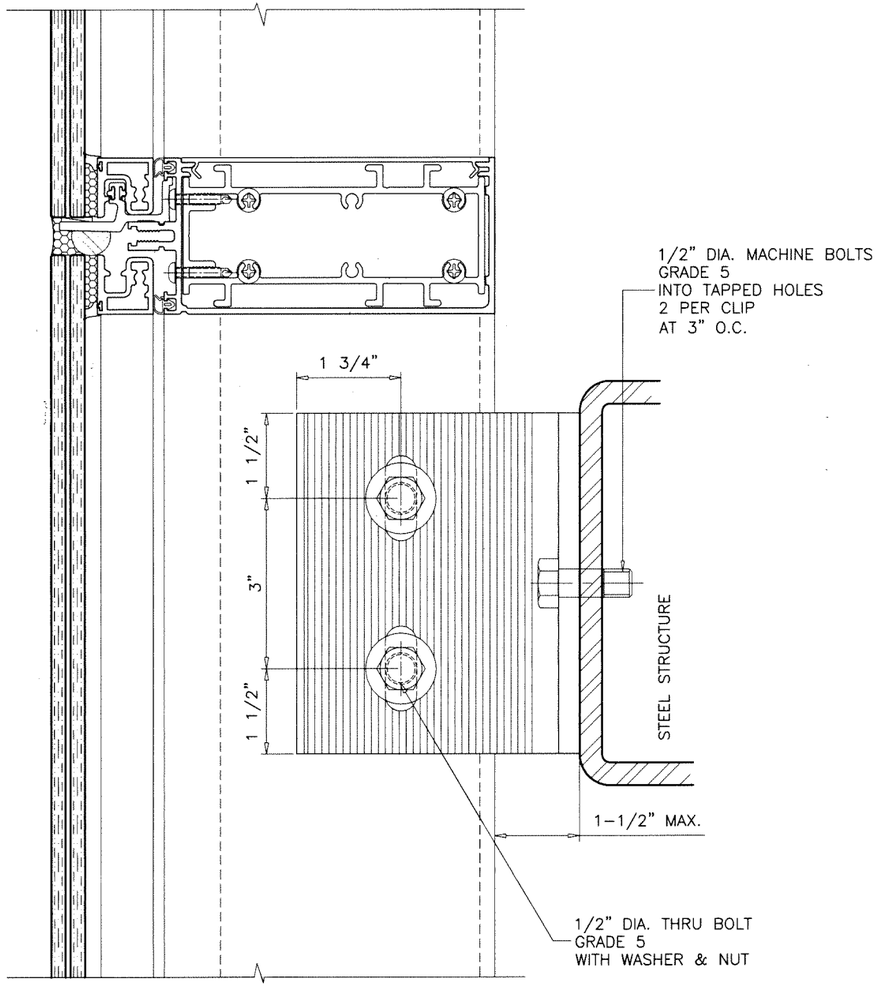
date: 03-15-19
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no. 19-18F

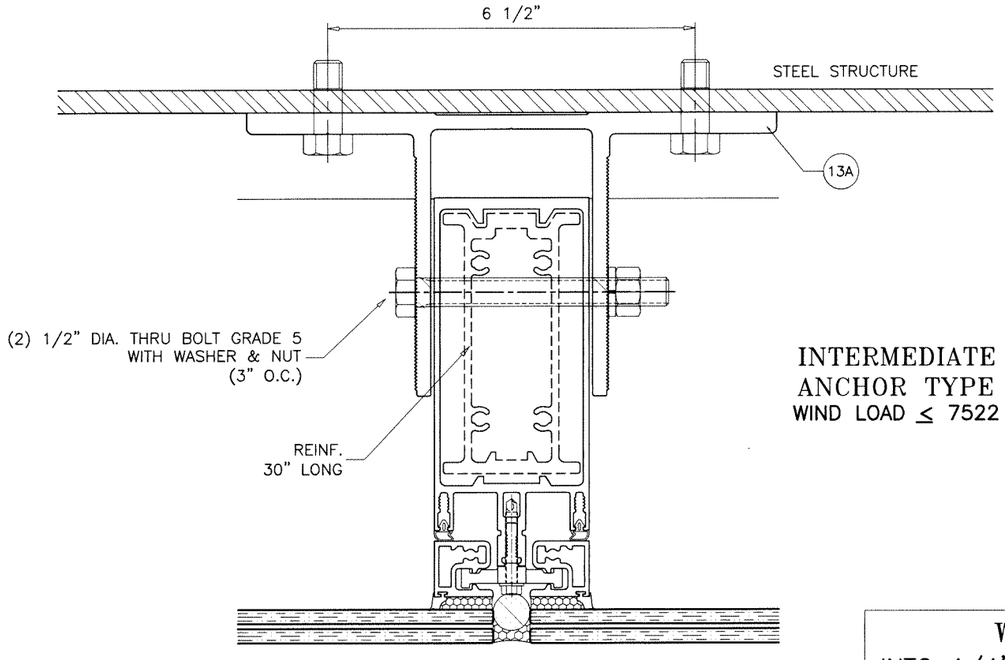
sheet 17 of 21



JAMB
ANCHOR TYPE '1'
WIND LOAD ≤ 7522 LBS



INTERMEDIATE ANCHORS



INTERMEDIATE
ANCHOR TYPE '1'
WIND LOAD ≤ 7522 LBS

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

Sealed: 8/19/2026

JALAL FAROOQ
LICENSE
No. 81223
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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

COMP-ANL\19-18F-MG

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: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no.
19-18F

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.	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-2033A	AS REQD.	RETAINER CLIP, 2" LONG, AT 18" O.C. MAX.	6063-T5	–
14B	E-2033B	AS REQD.	RETAINER CLIP, 4-1/2" LONG, AT 18" O.C. MAX.	6063-T5	–
14C	#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: 8/19/2026

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

COMP-ANL\19-18F-MG

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

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

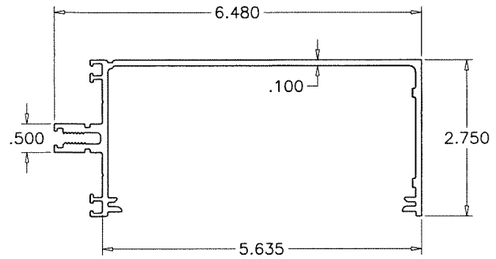
revisions:

no	date	by	description

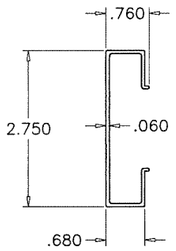
date: 03-15-19
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no. 19-18F

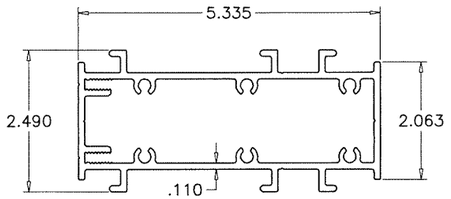
sheet 19 of 21



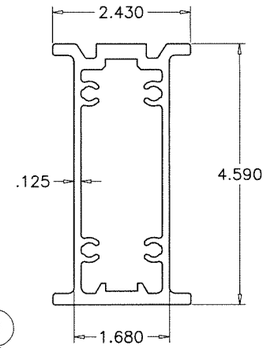
1 FRAME HEAD/SILL/HORIZONTAL



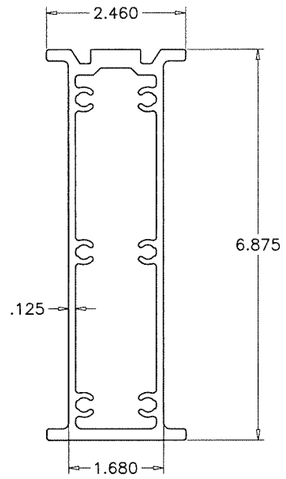
21 DECORATIVE CAP



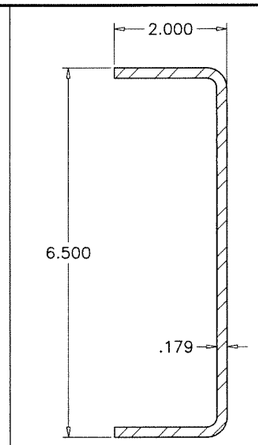
2 SHEAR BLOCK



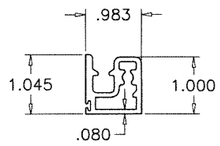
3 3.1 4 JAMB/MULL/HORIZ. REINF. SPLICE



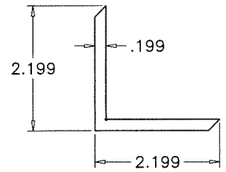
3A 4A JAMB/MULL REINF. SPLICE



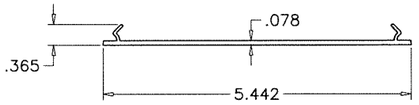
3C 3C' REINF. CHANNEL



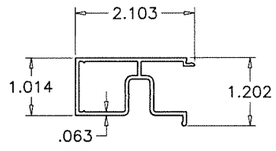
9 SUB FRAME



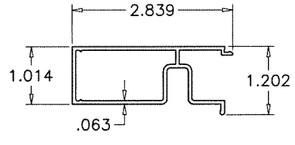
10 SUB FRAME CORNER KEY



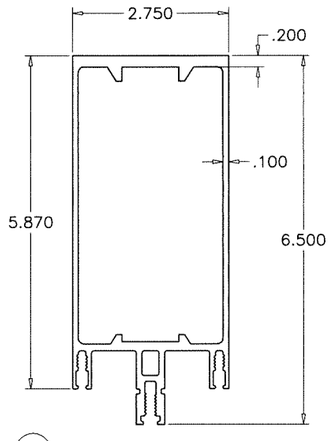
5 FRAME COVER



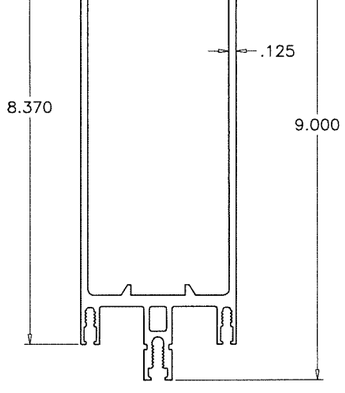
8 POCKET FILLER (LAM. GLASS)



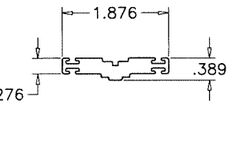
8A POCKET FILLER (INSUL. LAM. GLASS)



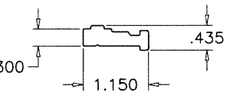
7 FRAME JAMB/MULLION/HORIZ.



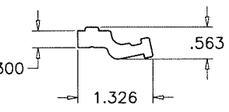
7A FRAME JAMB/MULLION



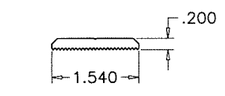
14 RETAINER CLIP



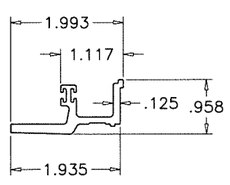
14A RETAINER CLIP



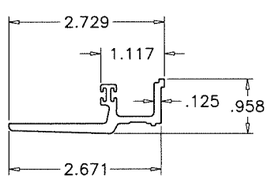
14B RETAINER CLIP



15 SERRATED WASHER



6 SITTING SHELF (LAM. GLASS)



6A SITTING SHELF (INSUL. LAM. GLASS)

Sealed: 8/19/2026

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

COMP-ANL\19-18F-MG

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

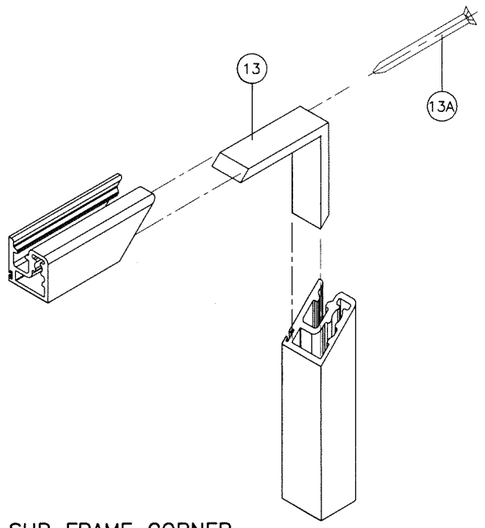
revisions:

no	date	by	description

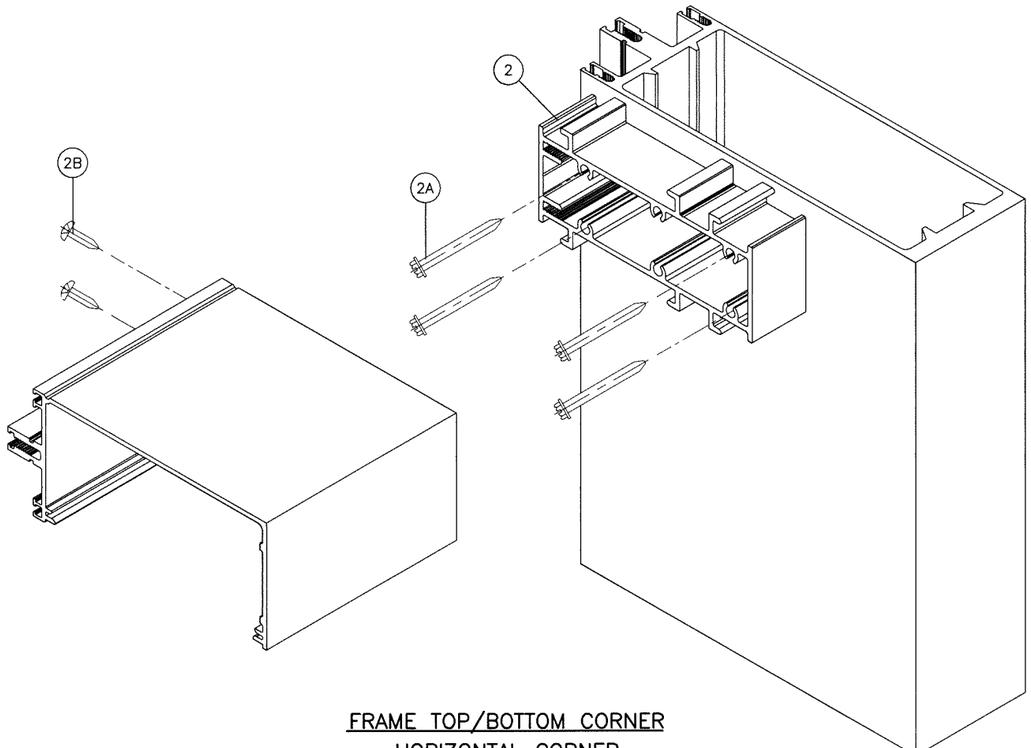
date: 03-15-19
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no. 19-18F

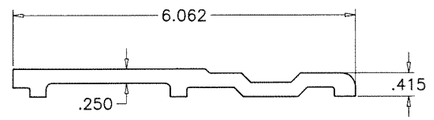
sheet 20 of 21



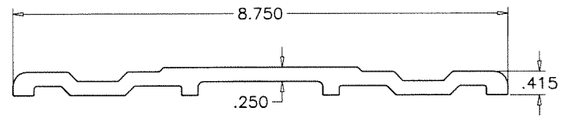
SUB FRAME CORNER



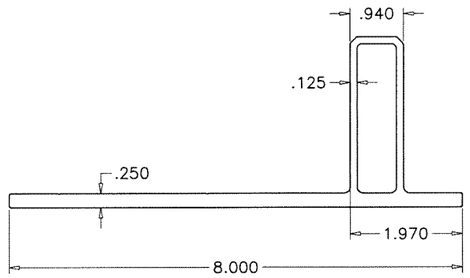
FRAME TOP/BOTTOM CORNER
HORIZONTAL CORNER



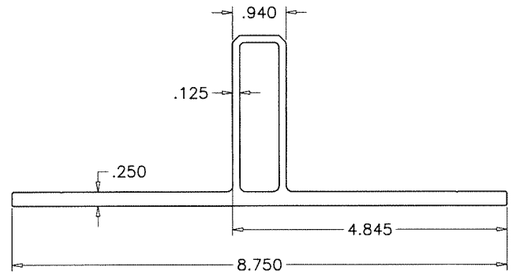
(11) ANCHOR PLATE (JAMB)



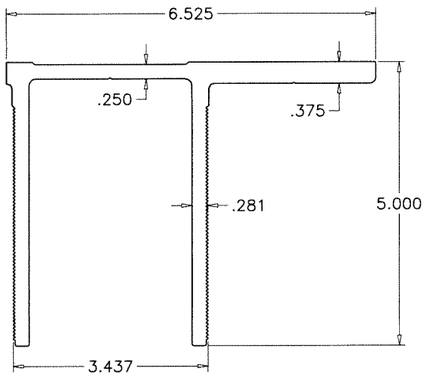
(11A) ANCHOR PLATE (MULLION)



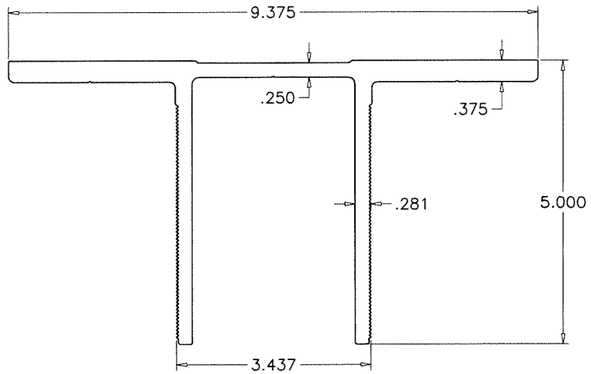
(12) 'F' ANCHOR CLIP (JAMB)



(12A) 'T' ANCHOR CLIP (MULLION)

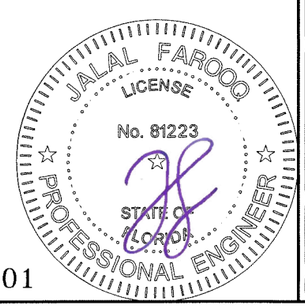


(13) INTERMEDIATE ANCHOR CLIP (JAMB)



(13A) INTERMEDIATE ANCHOR CLIP (MULLION)

Sealed: 8/19/2026



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

COMP-ANL\19-18F-MG

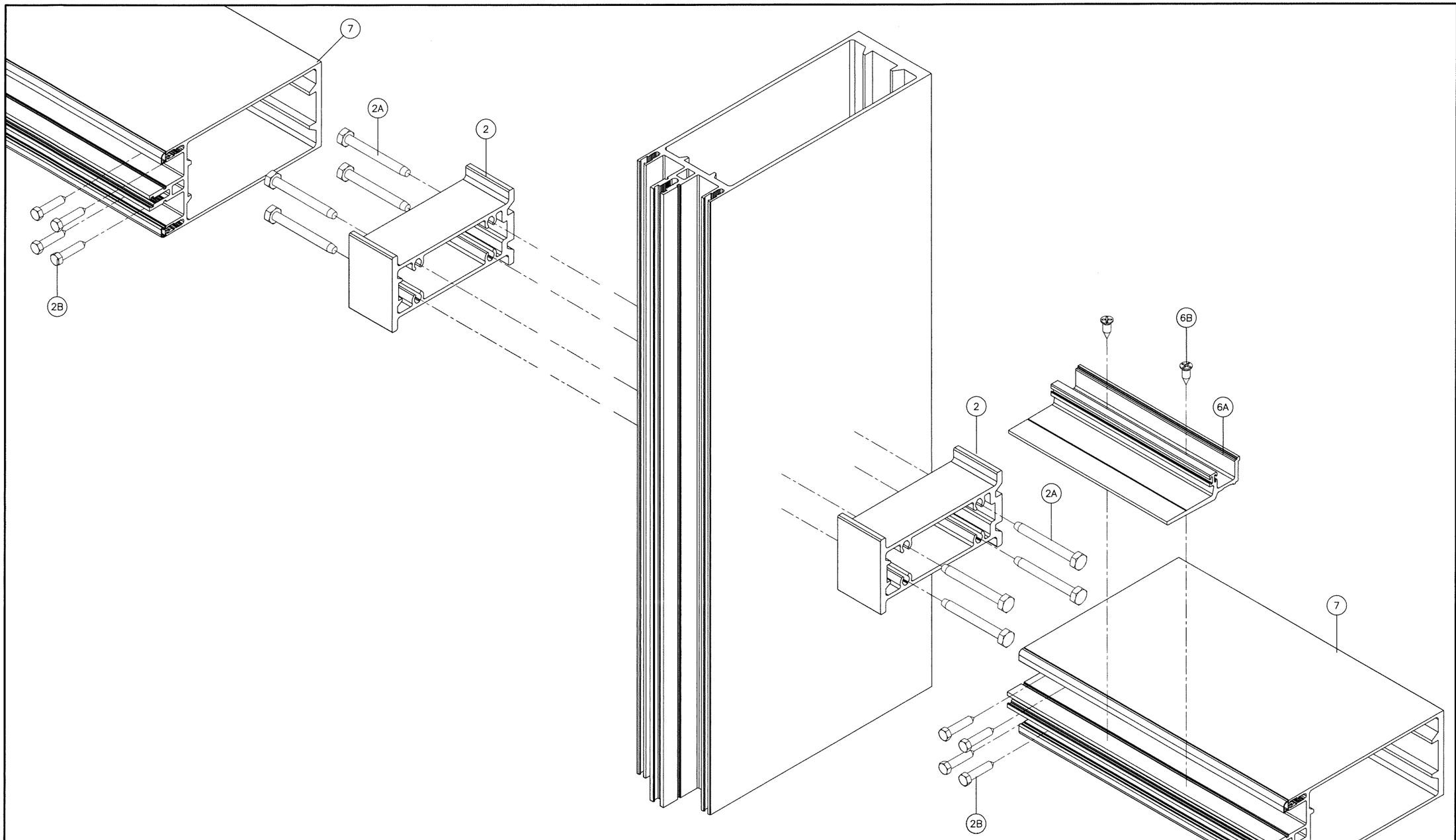
SERIES 2000 STICK ALUM. CURTAIN WALL SYS. (L.M.I.)

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: 3/8" = 1" | dr. by: TARIQ | chk. by:

drawing no. 19-18F



FRAME TOP/BOTTOM CORNER
HORIZONTAL CORNER

FOR ELEVATION SHOWN ON SHEETS 3.1 & 3.2

Sealed: 8/19/2026

FL #27401

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

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\19-18F-MG

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: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no. 19-18F

sheet 21.1 of 21