

SERIES-2047 ALUM CURTAIN WALL SYSTEM

CURTAIN WALL SYSTEM IS RATED FOR LARGE MISSILE IMPACT.
SHUTTERS ARE NOT REQD.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2017 (6TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

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 2017 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

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

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- STEP 1
- DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2
- SEE CHARTS ON SHEETS 4 & 5 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
- STEP 3
- CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEETS 6 THRU 11.
- STEP 4
- USING HEAD/SILL ANCHOR DETAILS ON SHEET 12 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 5
- CHECK INTERMEDIATE ANCHOR CAPACITY FOR MULTIPLE SPANS USING CHARTS OR DETAILS ON SHEETS 17 THRU 21.
- STEP 6
- THE LOWEST VALUE RESULTING FROM STEPS 2, 3, 4 AND 5 SHALL APPLY TO ENTIRE SYSTEM.

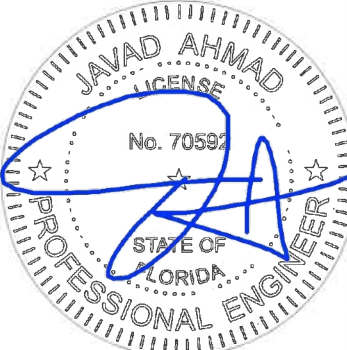
INDEX OF DRAWING	
SHEET NO.	DESCRIPTION
1	GENERAL NOTES
2	CURTAIN WALL ELEVATION (PRESSURE PLATE SYS.)
3	CURTAIN WALL ELEVATION (STRUCTURALLY GLAZED SYS.)
4 & 5	GLASS CAPACITY CHARTS
6	6-5/8" SYSTEM MULLION CAPACITY CHART
7 & 7.1	8-1/4" SYSTEM MULLION CAPACITY CHART
8 THRU 8.4	DOOR MULLION CAPACITY CHART
9	6-5/8" MULLION MULTIPLE SPAN CONDITION
9.1	8-1/4" MULLION MULTIPLE SPAN CONDITION
10	6-5/8" CORNER MULLION CAPACITY CHART
11	6-5/8" CORNER MULLION MULTIPLE SPAN CONDITION
12 THRU 12.2	HEAD/SILL ANCHOR CAPACITY CHART AND DETAILS
13 THRU 14.1	VERTICAL AND HORIZONTAL SECTION DETAILS
15 & 15.1	TRANSOM HORIZONTAL DETAILS AND CAPACITY CHART
16	CORNER MULLION DETAILS
17 THRU 19.1	WIND LOAD + DEAD LOAD ANCHOR DETAILS
20 & 21	WIND LOAD + DEAD LOAD CORNER MULLION ANCHOR DETAILS
22 THRU 22.3	EXTRUSION DETAILS
23	BILL OF MATERIALS
24	CORNER CONSTRUCTION DETAILS

PRODUCT COMPLIES WITH REQUIREMENTS OF ANSI Z97.1.

LAMINATED GLASS
INSUL. LAM. GLASS
LARGE MISSILE IMPACT

FL #16196

- 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.



afC

AL-FAROOQ CORPORATION

ENGINEERS & PRODUCT DEVELOPMENT

9360 SUNSET DRIVE, SUITE 220

MIAMI, FLORIDA 33173

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SERIES-2047 ALUM CURTAIN WALL SYSTEM (L.M.I.)

Glass Tech Engineering, Inc.

8321 N.W. 70th Street

Miami, FL. 33166

Tel. (305) 594-4321

Fax. (305) 599-2730

revisions:

no	date	by	description
A	06.11.19		LEVEL E IMPACT ADDED

date: 08-24-17

scale: -

dr. by: TARIQ

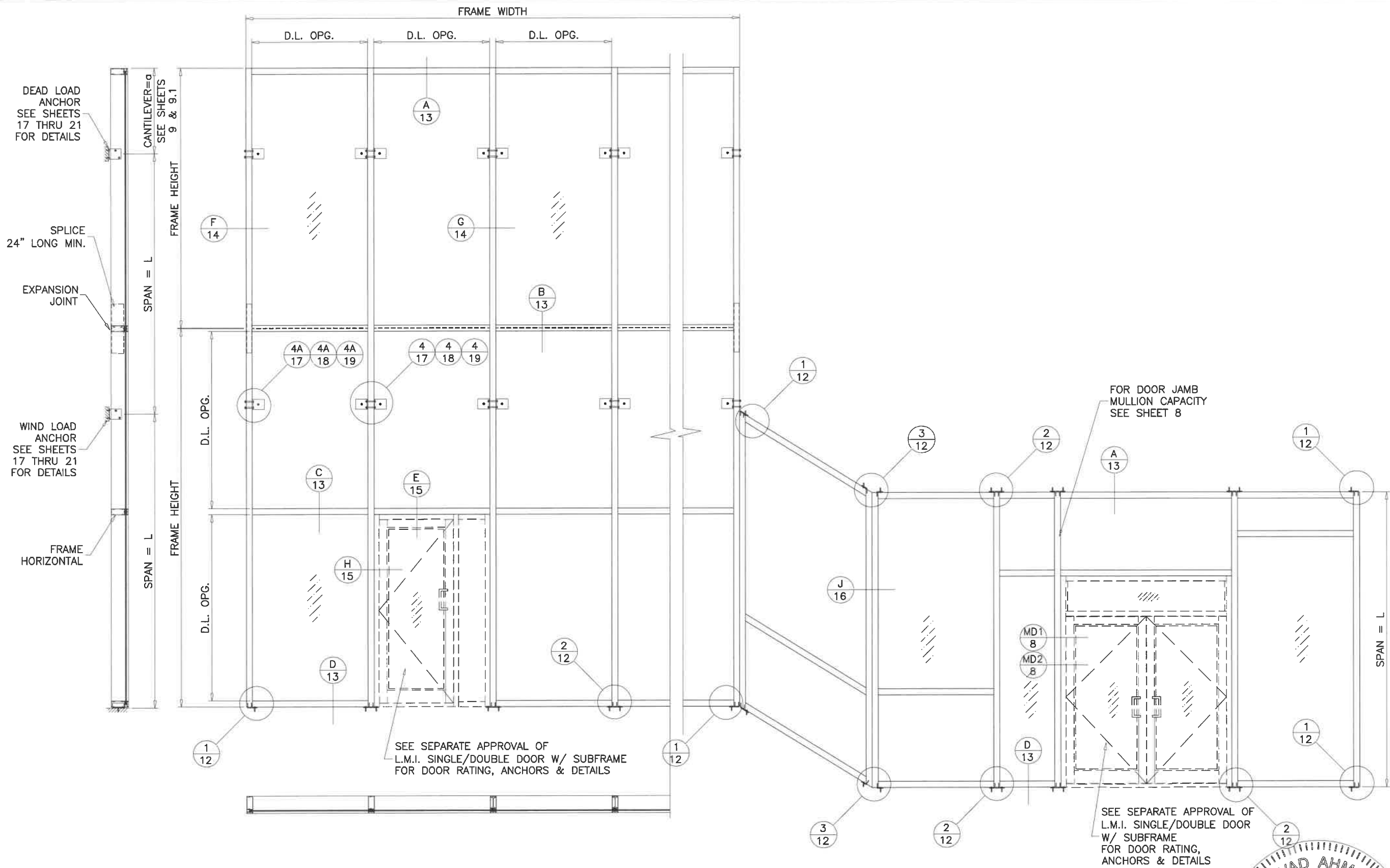
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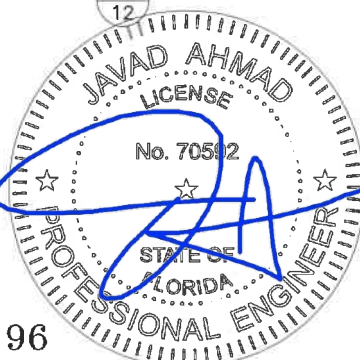
W17-76

sheet 1 of 24

Sealed 7/24/19



TYPICAL ELEVATION
PRESSURE PLATE SYSTEM



FL #16196

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revisions:	
no	date by description

date: 08-24-17

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dr. by: TARIQ

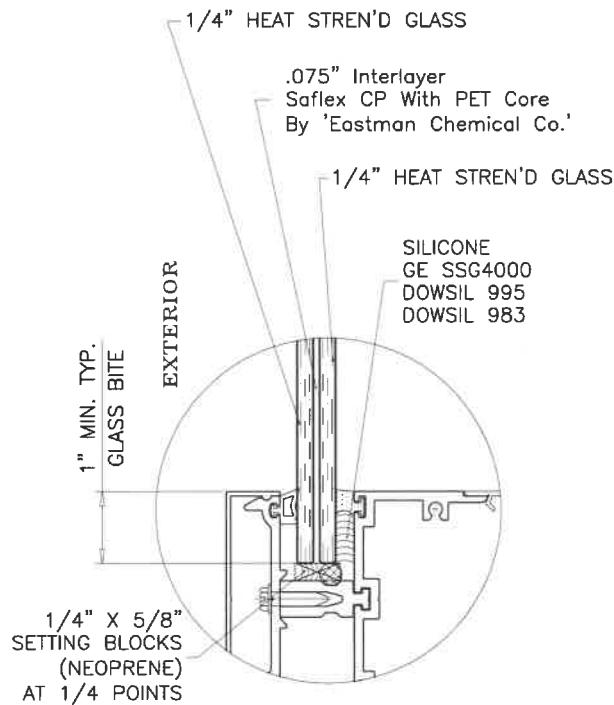
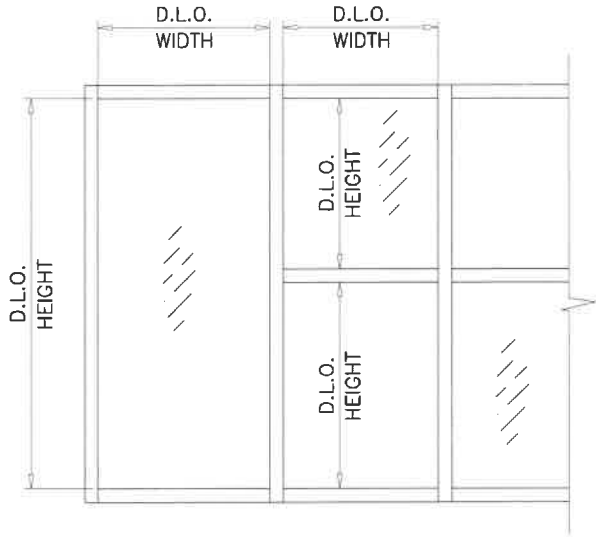
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drawing no.
W17-76

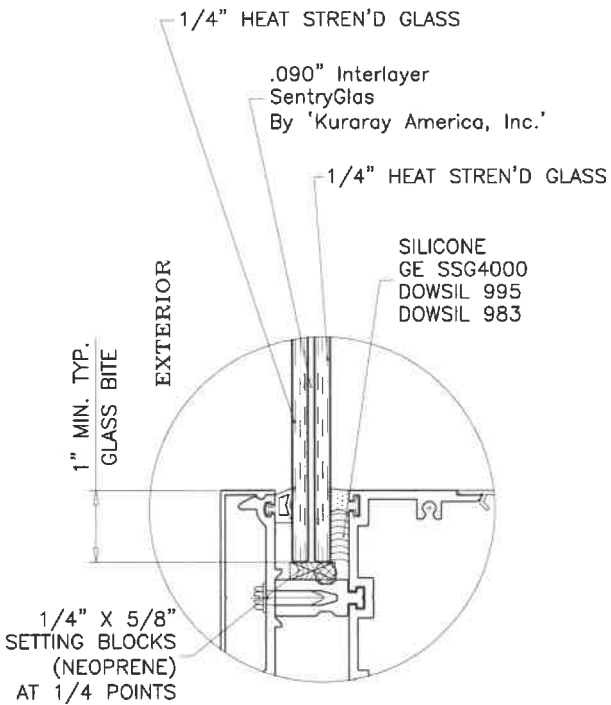
sheet 2 of 24

GLASS LOAD CAPACITY - PSF		
NOMINAL DIMS.		GLASS TYPES 'A', 'B' & 'BB'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (-)
36"	84"	145.0
39"		145.0
42"		145.0
45"		145.0
48"		145.0
51"		145.0
54"		140.2
57"		135.6
60"		136.0
63"		120.0
66"		120.0
36"	90"	145.0
39"		145.0
42"		145.0
45"		145.0
48"		144.4
51"		137.4
54"		131.9
57"		130.7
60"		120.0
36"	96"	145.0
39"		145.0
42"		145.0
45"		144.7
48"		136.7
51"		129.7
54"		126.8
57"		120.0
57"	96-1/2"	120.7
57"	97-3/8"	119.5
36"	102"	145.0
39"		145.0
42"		145.0
45"		137.3
48"		129.4
51"		120.0
54"		118.5
36"	108"	145.0
39"		145.0
42"		140.2
45"		131.1
48"		125.6
51"		117.7
36"	114"	145.0
39"		144.4
42"		134.9
45"		128.9
48"		119.5

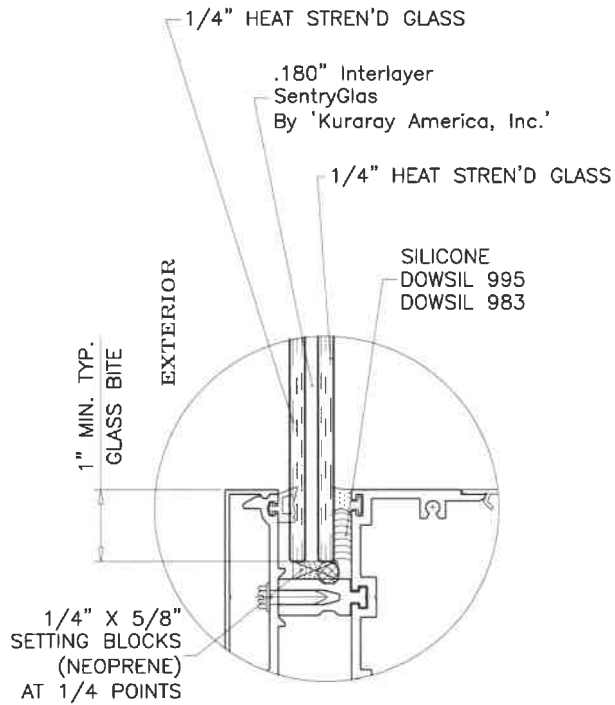
GLASS LOAD CAPACITY - PSF		
NOMINAL DIMS.		GLASS TYPES 'A', 'B' & 'BB'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (-)
36"	120"	145.0
39"		142.2
42"		134.6
45"		120.0
36"	126"	145.0
39"		142.8
42"		120.0
36"	132"	145.0
39"		145.0
42"		120.0
36"	138"	145.0
39"		145.0



GLASS TYPE 'A'
LEVEL 'D' IMPACT

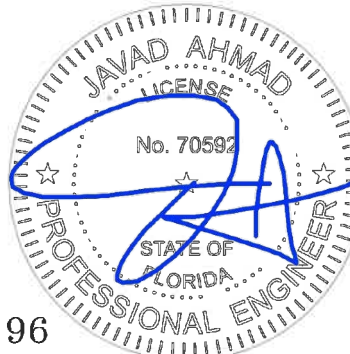


GLASS TYPE 'B'
LEVEL 'D' IMPACT



GLASS TYPE 'BB'
LEVEL 'E' IMPACT

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



FL #16196

Sealed 7/24/19

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revisions:
no date by description

date: 08-24-17

scale: 3/8" = 1"

dr. by: TARIQ

chk. by:

drawing no.

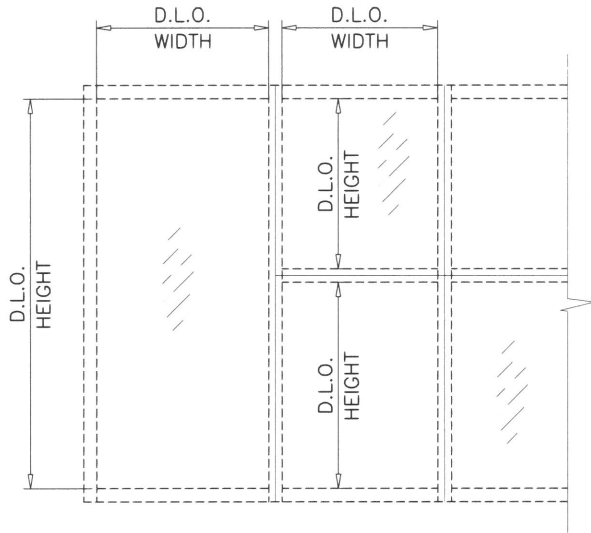
W17-76

sheet 4 of 24

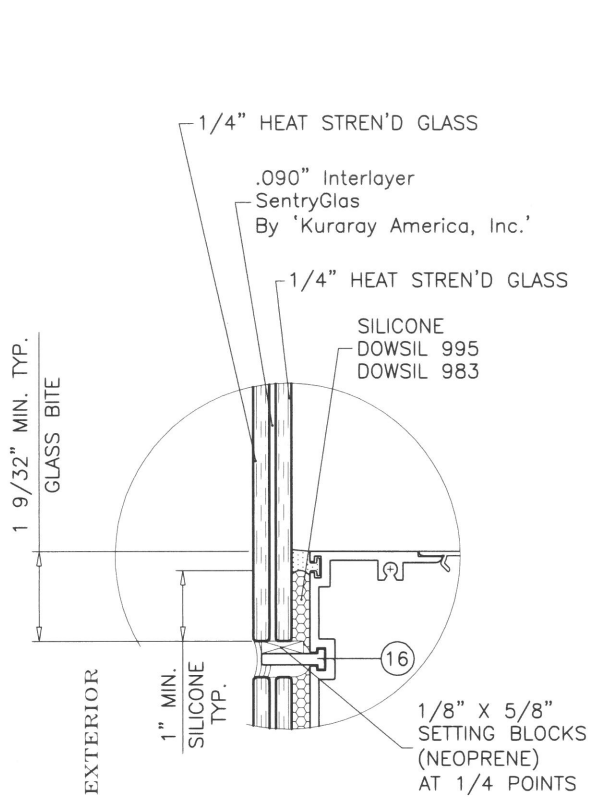
COMP-ANL\W17-76GTE

GLASS LOAD CAPACITY - PSF		
NOMINAL DIMS.		GLASS TYPES
D.L.O. WIDTH	D.L.O. HEIGHT	'C', 'C1', 'CC', 'CC1'
30"	90"	EXT. (+)
36"		INT. (-)
42"		100.0
48"		100.0
54"		100.0
60"		100.0
66"		96.0
72"		87.3
78"	96"	80.0
84"		73.8
90"		68.6
96"		64.0
102"		60.0
108"		56.7
114"		53.3
120"		50.0

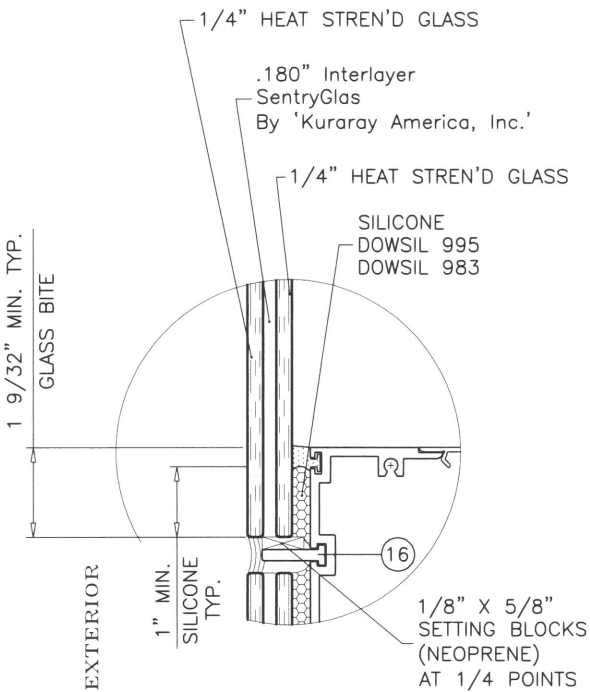
GLASS LOAD CAPACITY - PSF		
NOMINAL DIMS.		GLASS TYPES
D.L.O. WIDTH	D.L.O. HEIGHT	'C', 'C1', 'CC', 'CC1'
30"	126"	EXT. (+)
36"		INT. (-)
42"		100.0
48"		100.0
54"		100.0
60"		100.0
66"		96.0
72"		87.3
78"	132"	80.0
84"		73.8
90"		68.6
96"		64.0
102"		60.0
108"		56.7
114"		53.3
120"		50.0



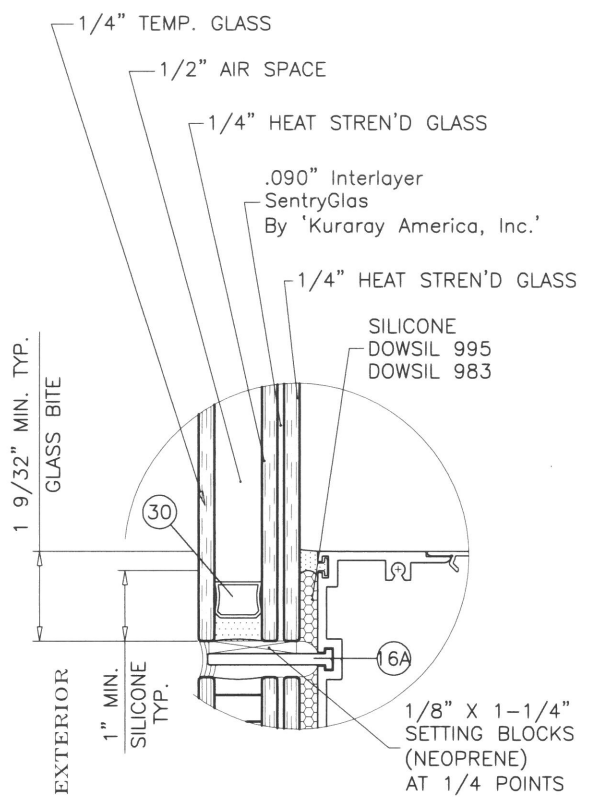
NOTE:
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ARE BASED ON
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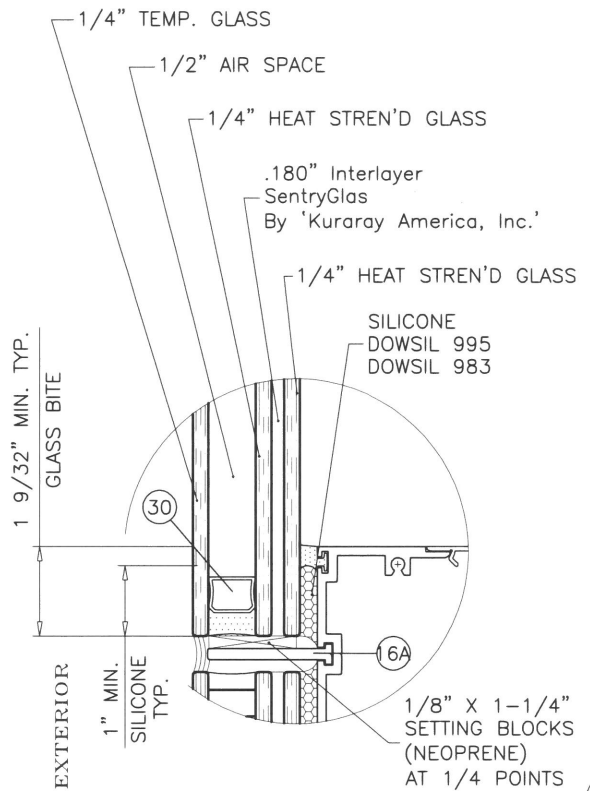
GLASS TYPE 'C'
LEVEL 'D' IMPACT



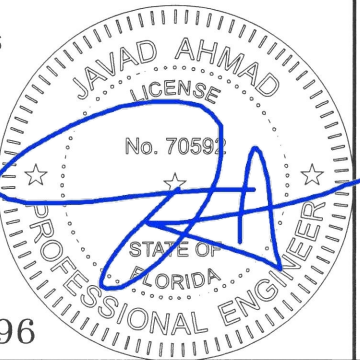
GLASS TYPE 'CC'
LEVEL 'E' IMPACT



GLASS TYPE 'C1'
LEVEL 'D' IMPACT



GLASS TYPE 'CC1'
LEVEL 'E' IMPACT



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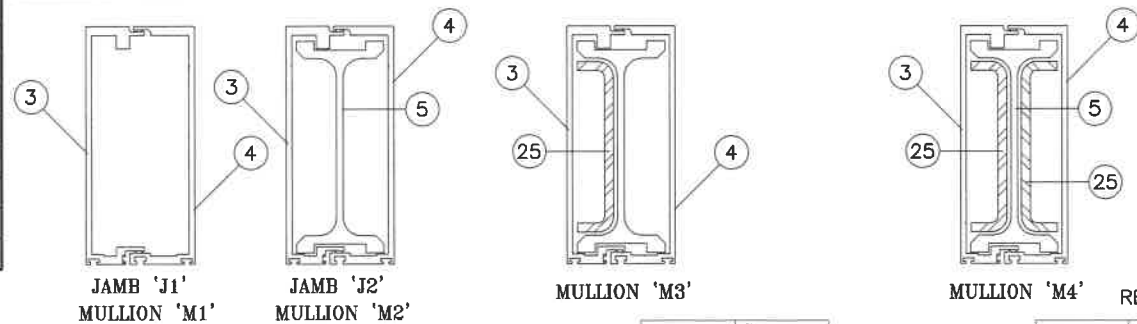
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drawing no.
W17-76
sheet 5 of 24

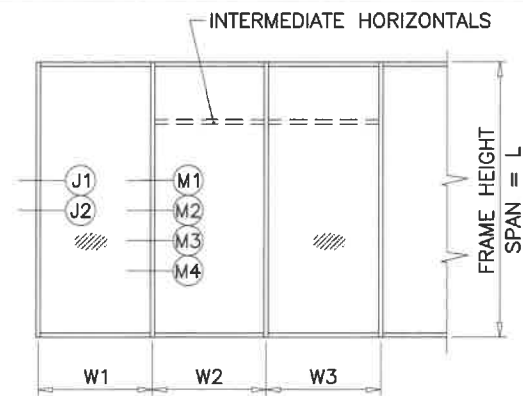
6-5/8" MULLION LOAD CAPACITY - PSF WITH OR WITHOUT INTERMEDIATE HORIZONTALS							
NOMINAL DIMS.		JAMB		MULLION			
		'J1'	'J2'	'M1'	'M2'	'M3'	'M4'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36"	96"	100.0	145.0	100.0	145.0	145.0	145.0
42"		100.0	145.0	100.0	145.0	145.0	145.0
48"		100.0	145.0	100.0	145.0	145.0	145.0
54"		100.0	145.0	100.0	145.0	145.0	145.0
60"		100.0	145.0	100.0	145.0	145.0	145.0
66"		100.0	145.0	100.0	145.0	145.0	145.0
72"		100.0	145.0	100.0	145.0	145.0	145.0
84"		100.0	145.0	100.0	145.0	145.0	145.0
36"	102"	100.0	145.0	100.0	145.0	145.0	145.0
42"		100.0	145.0	100.0	145.0	145.0	145.0
48"		100.0	145.0	100.0	145.0	145.0	145.0
54"		100.0	145.0	100.0	145.0	145.0	145.0
60"		100.0	145.0	100.0	145.0	145.0	145.0
66"		100.0	145.0	100.0	145.0	145.0	145.0
72"		100.0	145.0	100.0	145.0	145.0	145.0
84"		100.0	145.0	93.6	145.0	145.0	145.0
36"	108"	100.0	145.0	100.0	145.0	145.0	145.0
42"		100.0	145.0	100.0	145.0	145.0	145.0
48"		100.0	145.0	100.0	145.0	145.0	145.0
54"		100.0	145.0	100.0	145.0	145.0	145.0
60"		100.0	145.0	100.0	145.0	145.0	145.0
66"		100.0	145.0	98.6	145.0	145.0	145.0
72"		100.0	145.0	90.4	145.0	145.0	145.0
84"		100.0	145.0	83.5	135.6	145.0	145.0
36"	114"	100.0	145.0	100.0	145.0	145.0	145.0
42"		100.0	145.0	100.0	145.0	145.0	145.0
48"		100.0	145.0	100.0	145.0	145.0	145.0
54"		100.0	145.0	100.0	145.0	145.0	145.0
60"		100.0	145.0	97.4	145.0	145.0	145.0
66"		100.0	145.0	88.5	143.9	145.0	145.0
72"		100.0	145.0	81.1	131.9	145.0	145.0
84"		100.0	100.0	74.9	100.0	100.0	100.0
36"	120"	100.0	145.0	100.0	145.0	145.0	145.0
42"		100.0	145.0	100.0	145.0	145.0	145.0
48"		100.0	145.0	100.0	145.0	145.0	145.0
54"		100.0	145.0	97.6	145.0	145.0	145.0
60"		100.0	145.0	87.9	142.8	145.0	145.0
66"		100.0	145.0	79.9	129.8	145.0	145.0
72"		100.0	145.0	73.2	119.0	145.0	145.0
84"		100.0	100.0	67.6	100.0	100.0	100.0
36"	126"	100.0	145.0	100.0	145.0	145.0	145.0
42"		100.0	145.0	100.0	145.0	145.0	145.0
48"		100.0	145.0	99.6	145.0	145.0	145.0
54"		100.0	145.0	88.6	143.9	145.0	145.0
60"		100.0	145.0	79.7	129.5	145.0	145.0
66"		100.0	145.0	72.5	117.8	145.0	145.0
72"		100.0	100.0	66.4	100.0	100.0	100.0
84"		100.0	100.0	61.3	99.6	100.0	100.0

6-5/8" MULLION LOAD CAPACITY - PSF WITH OR WITHOUT INTERMEDIATE HORIZONTALS							
NOMINAL DIMS.		JAMB		MULLION			
		'J1'	'J2'	'M1'	'M2'	'M3'	'M4'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36"	132"	100.0	145.0	100.0	145.0	145.0	145.0
42"		100.0	145.0	100.0	145.0	145.0	145.0
48"		100.0	145.0	90.8	145.0	145.0	145.0
54"		100.0	145.0	80.7	131.1	145.0	145.0
60"		100.0	145.0	72.6	118.0	145.0	145.0
66"		100.0	100.0	66.0	100.0	100.0	100.0
72"		100.0	100.0	60.5	98.4	100.0	100.0
84"		100.0	100.0	55.9	90.8	100.0	100.0
36"	138"	100.0	145.0	100.0	145.0	145.0	145.0
42"		100.0	145.0	94.9	145.0	145.0	145.0
48"		100.0	145.0	83.1	135.0	145.0	145.0
54"		100.0	145.0	73.8	120.0	145.0	145.0
60"		100.0	145.0	66.4	108.0	135.7	145.0
66"		100.0	100.0	60.4	98.2	100.0	100.0
72"		100.0	100.0	55.4	90.0	100.0	100.0
84"		100.0	100.0	51.1	83.1	100.0	100.0
36"	144"	100.0	145.0	100.0	145.0	145.0	145.0
42"		100.0	145.0	87.2	141.7	145.0	145.0
48"		100.0	145.0	76.3	124.0	145.0	145.0
54"		100.0	145.0	67.8	110.2	138.4	145.0
60"		100.0	145.0	61.0	99.2	124.6	145.0
66"		100.0	100.0	55.5	90.2	100.0	100.0
72"		100.0	100.0	50.9	82.6	100.0	100.0
84"		100.0	100.0	46.9	76.3	95.8	100.0
36"	156"	100.0	100.0	-	100.0	100.0	100.0
42"		100.0	100.0	-	100.0	100.0	100.0
48"		100.0	100.0	-	100.0	100.0	100.0
54"		100.0	100.0	-	93.9	100.0	100.0
60"		100.0	100.0	-	84.5	100.0	100.0
66"		94.5	100.0	-	76.8	96.5	100.0
72"		86.7	100.0	-	70.4	88.5	100.0
84"		80.0	100.0	-	65.0	81.7	98.3
36"	168"	100.0	100.0	-	100.0	100.0	100.0
42"		100.0	100.0	-	100.0	100.0	100.0
48"		100.0	100.0	-	91.1	100.0	100.0
54"		99.6	100.0	-	81.0	100.0	100.0
60"		89.7	100.0	-	72.9	91.5	100.0
66"		81.5	100.0	-	66.2	83.2	100.0
72"		74.7	100.0	-	60.7	76.3	91.8
84"		69.0	100.0	-	56.1	70.4	84.8



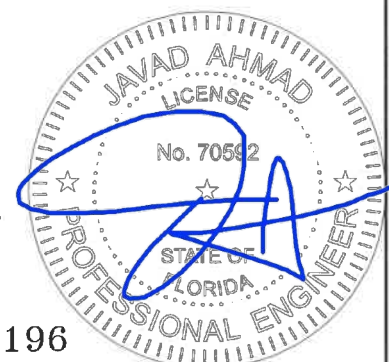
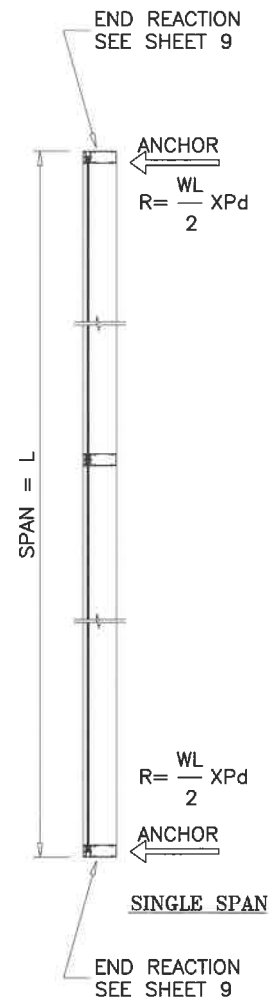
JAMB 'J1'		JAMB 'J2'		MULLION 'M3'		MULLION 'M4'	
M1/J1	ALUM	M2/J2	ALUM	ALUMINUM	Ix IN^4	ALUMINUM	Ix IN^4
Ix IN^4	21.1207	Ix IN^4	34.9932	STEEL	34.9932	STEEL	34.9932
Sx IN^3	5.9127	Sx IN^3	9.7963	TOTAL	9.7963	TOTAL	9.7963
				Ix ALUM + Ix STL X 2.9	43.959	Ix ALUM + Ix STL X 2.9	52.925

REINF. LENGTH = MULL LENGTH-6"



WIDTH (W) = W1
AT FRAME JAMB

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



FL #16196

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 262-6978
FAX. (305) 262-8100
COMP-ANL\W17-76GTE

SERIES-2047 ALUM CURTAIN WALL SYSTEM (L.M.I.)
Glass Tech Engineering, Inc.
8321 N.W. 70th Street
Miami, FL. 33166
Tel. (305) 594-4321 Fax. (305) 599-2730

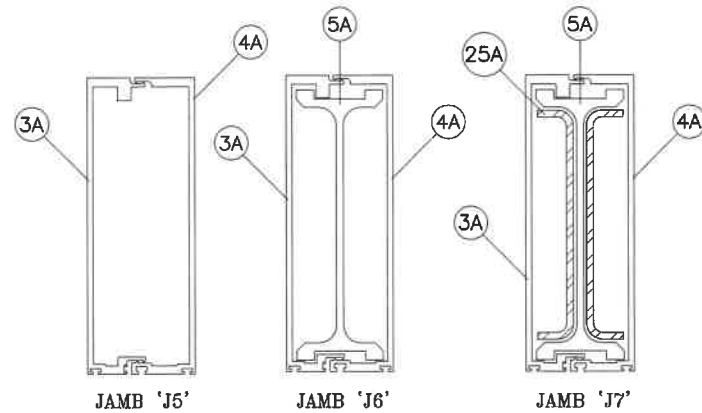
revisions:	no	date	by	description
date:	08-24-17	scale:	-	
dr. by:	TARIQ	chk. by:		
drawing no.	W17-76	sheet	6 of 24	

8-1/4" JAMB LOAD CAPACITY - PSF WITH OR W/O INTERMEDIATE HORIZONTALS				
NOMINAL DIMS.		JAMB		
WIDTH (W)	FRAME HEIGHT	'J5'	'J6'	'J7'
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36"	108"	100.0	100.0	100.0
42"		100.0	100.0	100.0
48"		100.0	100.0	100.0
54"		100.0	100.0	100.0
60"		100.0	100.0	100.0
66"		100.0	100.0	100.0
72"		100.0	100.0	100.0
78"		100.0	100.0	100.0
84"		100.0	100.0	100.0
36"	114"	100.0	100.0	100.0
42"		100.0	100.0	100.0
48"		100.0	100.0	100.0
54"		100.0	100.0	100.0
60"		100.0	100.0	100.0
66"		100.0	100.0	100.0
72"		100.0	100.0	100.0
78"		100.0	100.0	100.0
84"		100.0	100.0	100.0
36"	120"	100.0	100.0	100.0
42"		100.0	100.0	100.0
48"		100.0	100.0	100.0
54"		100.0	100.0	100.0
60"		100.0	100.0	100.0
66"		100.0	100.0	100.0
72"		100.0	100.0	100.0
78"		100.0	100.0	100.0
84"		100.0	100.0	100.0
36"	126"	100.0	100.0	100.0
42"		100.0	100.0	100.0
48"		100.0	100.0	100.0
54"		100.0	100.0	100.0
60"		100.0	100.0	100.0
66"		100.0	100.0	100.0
72"		100.0	100.0	100.0
78"		100.0	100.0	100.0
84"		100.0	100.0	100.0
36"	132"	100.0	100.0	100.0
42"		100.0	100.0	100.0
48"		100.0	100.0	100.0
54"		100.0	100.0	100.0
60"		100.0	100.0	100.0
66"		100.0	100.0	100.0
72"		100.0	100.0	100.0
78"		100.0	100.0	100.0
84"		100.0	100.0	100.0
36"	138"	100.0	100.0	100.0
42"		100.0	100.0	100.0
48"		100.0	100.0	100.0
54"		100.0	100.0	100.0
60"		100.0	100.0	100.0
66"		100.0	100.0	100.0
72"		100.0	100.0	100.0
78"		100.0	100.0	100.0
84"		100.0	100.0	100.0

8-1/4" JAMB LOAD CAPACITY - PSF WITH OR W/O INTERMEDIATE HORIZONTALS				
NOMINAL DIMS.		JAMB		
WIDTH (W)	FRAME HEIGHT	'J5'	'J6'	'J7'
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36"	144"	100.0	100.0	100.0
42"		100.0	100.0	100.0
48"		100.0	100.0	100.0
54"		100.0	100.0	100.0
60"		100.0	100.0	100.0
66"		100.0	100.0	100.0
72"		100.0	100.0	100.0
78"		100.0	100.0	100.0
84"		100.0	100.0	100.0
36"	156"	100.0	100.0	100.0
42"		100.0	100.0	100.0
48"		100.0	100.0	100.0
54"		100.0	100.0	100.0
60"		100.0	100.0	100.0
66"		100.0	100.0	100.0
72"		100.0	100.0	100.0
78"		100.0	100.0	100.0
84"		100.0	100.0	100.0
36"	168"	100.0	100.0	100.0
42"		100.0	100.0	100.0
48"		100.0	100.0	100.0
54"		100.0	100.0	100.0
60"		100.0	100.0	100.0
66"		100.0	100.0	100.0
72"		100.0	100.0	100.0
78"		93.3	100.0	100.0
84"		86.7	100.0	100.0
36"	180"	100.0	100.0	100.0
42"		100.0	100.0	100.0
48"		100.0	100.0	100.0
54"		100.0	100.0	100.0
60"		100.0	100.0	100.0
66"		96.1	100.0	100.0
72"		88.1	100.0	100.0
78"		81.3	100.0	100.0
84"		75.5	100.0	100.0
36"	192"	100.0	100.0	100.0
42"		100.0	100.0	100.0
48"		100.0	100.0	100.0
54"		100.0	100.0	100.0
60"		92.9	100.0	100.0
66"		84.5	100.0	100.0
72"		77.4	100.0	100.0
78"		71.5	100.0	100.0
84"		66.4	100.0	100.0
36"	204"	100.0	100.0	100.0
42"		100.0	100.0	100.0
48"		100.0	100.0	100.0
54"		91.4	100.0	100.0
60"		82.3	100.0	100.0
66"		74.8	100.0	100.0
72"		68.6	100.0	100.0
78"		63.3	100.0	100.0
84"		58.8	96.8	100.0

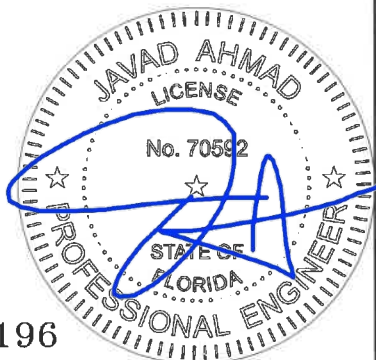
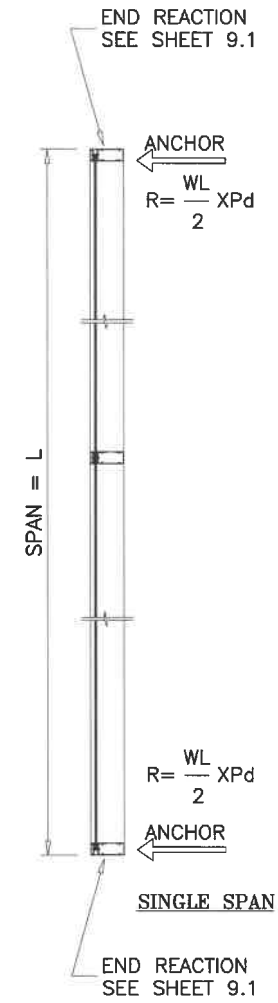
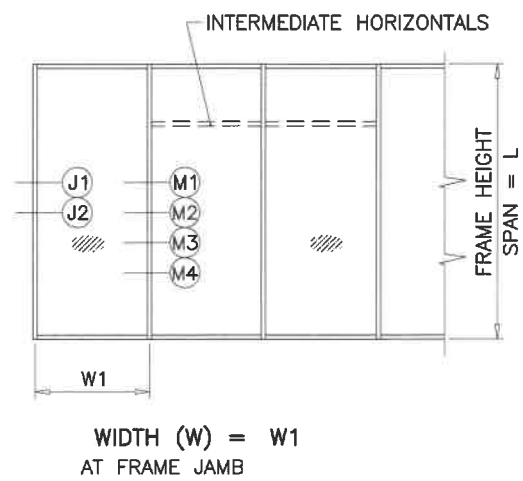
8-1/4" JAMB LOAD CAPACITY - PSF WITH OR W/O INTERMEDIATE HORIZONTALS				
NOMINAL DIMS.		JAMB		
WIDTH (W)	FRAME HEIGHT	'J5'	'J6'	'J7'
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36"	216"	100.0	100.0	100.0
42"		100.0	100.0	100.0
48"		91.7	100.0	100.0
54"		81.6	100.0	100.0
60"		73.4	100.0	100.0
66"		66.7	100.0	100.0
72"		61.2	100.0	100.0
78"		56.5	93.0	100.0
84"		52.4	86.3	100.0
36"	228"	100.0	100.0	100.0
42"		94.1	100.0	100.0
48"		82.3	100.0	100.0
54"		73.2	100.0	100.0
60"		65.9	100.0	100.0
66"		59.9	98.6	100.0
72"		54.9	90.4	100.0
78"		50.7	83.4	100.0
84"		47.1	77.5	100.0
36"	240"	97.0	100.0	100.0
42"		83.1	100.0	100.0
48"		72.7	100.0	100.0
54"		64.6	100.0	100.0
60"		58.2	97.9	100.0
66"		52.9	89.0	100.0
72"		48.5	81.6	100.0
78"		44.8	75.3	100.0
84"		41.6	69.9	100.0

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



J5	ALUM	J6	ALUM	ALUMINUM	Ix IN^4	Sx IN^3
Ix IN^4	38.88	Ix IN^4	66.395	STEEL	66.395	14.622
Sx IN^3	8.562	Sx IN^3	14.622	TOTAL	14.943	4.426
				Ix ALUM + Ix STL X 2.9	109.729	

REINF. LENGTH = MULL LENGTH-6"



FL #16196

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afC

SERIES-2047 ALUM CURTAIN WALL SYSTEM (L.M.I.)

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revisions:
no date by description

date: 08-24-17
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dr. by: TARIQ
chk. by:

drawing no.
W17-76
sheet 7 of 24

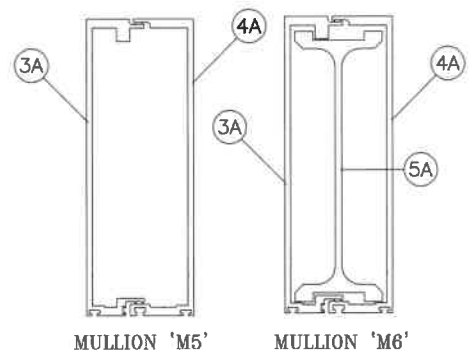
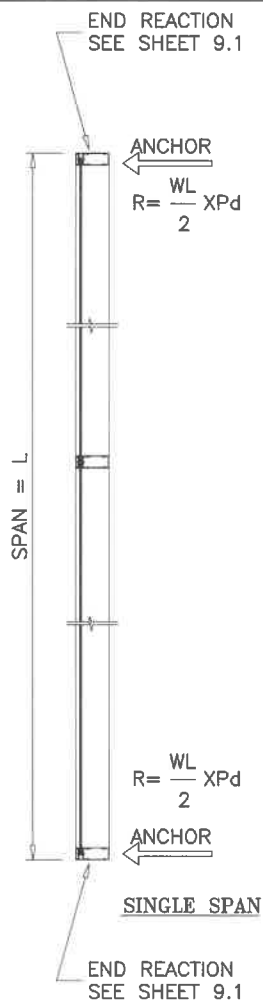
COMP-ANL\W17-76GTE

8-1/4" MULLION LOAD CAPACITY - PSF WITH OR W/O INTERMEDIATE HORIZONTALS					
NOMINAL DIMS.		MULLION			
WIDTH (W)	FRAME HEIGHT	'M5'	'M6'	'M7'	'M8'
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36"	108"	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0
54"		100.0	100.0	100.0	100.0
60"		100.0	100.0	100.0	100.0
66"		100.0	100.0	100.0	100.0
72"		100.0	100.0	100.0	100.0
78"		100.0	100.0	100.0	100.0
84"		100.0	100.0	100.0	100.0
36"	114"	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0
54"		100.0	100.0	100.0	100.0
60"		100.0	100.0	100.0	100.0
66"		100.0	100.0	100.0	100.0
72"		100.0	100.0	100.0	100.0
78"		100.0	100.0	100.0	100.0
84"		94.1	100.0	100.0	100.0
36"	120"	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0
54"		100.0	100.0	100.0	100.0
60"		100.0	100.0	100.0	100.0
66"		100.0	100.0	100.0	100.0
72"		99.1	100.0	100.0	100.0
78"		91.5	100.0	100.0	100.0
84"		84.9	100.0	100.0	100.0
36"	126"	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0
54"		100.0	100.0	100.0	100.0
60"		100.0	100.0	100.0	100.0
66"		98.0	100.0	100.0	100.0
72"		89.9	100.0	100.0	100.0
78"		83.0	100.0	100.0	100.0
84"		77.0	100.0	100.0	100.0
36"	132"	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0
54"		100.0	100.0	100.0	100.0
60"		98.3	100.0	100.0	100.0
66"		89.3	100.0	100.0	100.0
72"		81.9	100.0	100.0	100.0
78"		75.6	100.0	100.0	100.0
84"		70.2	100.0	100.0	100.0
36"	138"	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0
54"		99.9	100.0	100.0	100.0
60"		89.9	100.0	100.0	100.0
66"		81.7	100.0	100.0	100.0
72"		74.9	100.0	100.0	100.0
78"		69.2	100.0	100.0	100.0
84"		64.2	100.0	100.0	100.0

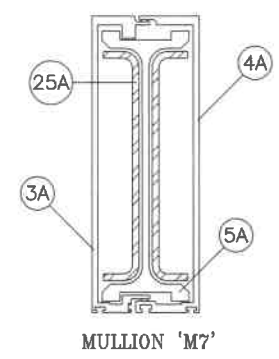
8-1/4" MULLION LOAD CAPACITY - PSF WITH OR W/O INTERMEDIATE HORIZONTALS					
NOMINAL DIMS.		MULLION			
WIDTH (W)	FRAME HEIGHT	'M5'	'M6'	'M7'	'M8'
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36"	144"	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0
54"		91.7	100.0	100.0	100.0
60"		82.6	100.0	100.0	100.0
66"		75.1	100.0	100.0	100.0
72"		68.8	100.0	100.0	100.0
78"		63.5	100.0	100.0	100.0
84"		59.0	97.1	100.0	100.0
36"	156"	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0
48"		87.9	100.0	100.0	100.0
54"		78.2	100.0	100.0	100.0
60"		70.4	100.0	100.0	100.0
66"		64.0	100.0	100.0	100.0
72"		58.6	96.5	100.0	100.0
78"		54.1	89.1	100.0	100.0
84"		50.3	82.7	100.0	100.0
36"	168"	100.0	100.0	100.0	100.0
42"		86.7	100.0	100.0	100.0
48"		75.8	100.0	100.0	100.0
54"		67.4	100.0	100.0	100.0
60"		60.7	99.9	100.0	100.0
66"		55.2	90.8	100.0	100.0
72"		50.6	83.2	100.0	100.0
78"		46.7	76.8	100.0	100.0
84"		40.0	71.3	100.0	100.0
36"	180"	-	100.0	100.0	100.0
42"		-	100.0	100.0	100.0
48"		-	100.0	100.0	100.0
54"		-	96.7	100.0	100.0
60"		-	87.0	100.0	100.0
66"		-	79.1	100.0	100.0
72"		-	72.5	100.0	100.0
78"		-	66.9	100.0	100.0
84"		-	62.2	100.0	100.0
36"	192"	-	100.0	100.0	100.0
42"		-	100.0	100.0	100.0
48"		-	95.6	100.0	100.0
54"		-	85.0	100.0	100.0
60"		-	76.5	100.0	100.0
66"		-	69.5	100.0	100.0
72"		-	63.7	100.0	100.0
78"		-	58.8	97.0	100.0
84"		-	54.6	90.1	99.9
36"	204"	-	100.0	100.0	100.0
42"		-	96.8	100.0	100.0
48"		-	84.7	100.0	100.0
54"		-	75.3	100.0	100.0
60"		-	67.7	100.0	100.0
66"		-	61.6	100.0	100.0
72"		-	56.5	93.1	100.0
78"		-	52.1	85.9	95.3
84"		-	48.4	79.8	88.5

8-1/4" MULLION LOAD CAPACITY - PSF WITH OR W/O INTERMEDIATE HORIZONTALS					
NOMINAL DIMS.		MULLION			
WIDTH (W)	FRAME HEIGHT	'M5'	'M6'	'M7'	'M8'
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36"	216"	-	100.0	100.0	100.0
42"		-	86.3	100.0	100.0
48"		-	75.5	100.0	100.0
54"		-	67.1	100.0	100.0
60"		-	60.4	99.6	100.0
66"		-	54.9	90.6	100.0
72"		-	50.4	83.0	92.1
78"		-	46.5	76.6	85.0
84"		-	43.2	71.2	79.0
36"	228"	-	90.4	100.0	100.0
42"		-	77.5	100.0	100.0
48"		-	67.8	100.0	100.0
54"		-	60.3	99.3	100.0
60"		-	54.2	89.4	99.2
66"		-	49.3	81.3	90.2
72"		-	45.2	74.5	82.7
78"		-	41.7	68.8	76.3
84"		-	38.7	63.9	70.9
36"	240"	-	81.6	100.0	100.0
42"		-	69.9	100.0	100.0
48"		-	61.2	100.0	100.0
54"		-	54.4	89.7	99.5
60"		-	48.9	80.7	89.5
66"		-	44.5	73.4	81.4
72"		-	40.8	67.2	74.6
78"		-	37.6	62.1	68.9
84"		-	35.0	57.6	64.0

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

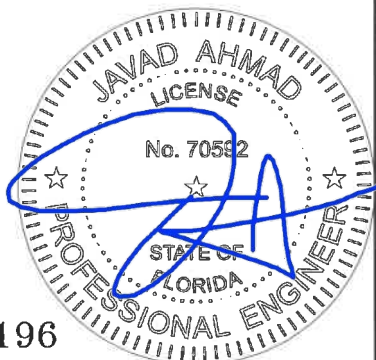
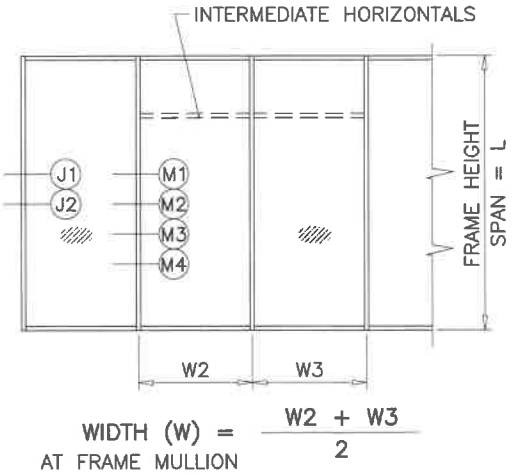


M5	ALUM	M6	ALUM
Ix IN^4	38.88	Ix IN^4	66.395
Sx IN^3	8.562	Sx IN^3	14.622



	Ix IN^4	Sx IN^3		Ix IN^4	Sx IN^3
ALUMINUM	66.395	14.622	ALUMINUM	66.395	14.622
STEEL	14.943	4.426	STEEL	19.480	5.717
TOTAL Ix ALUM + Ix STL X 2.9	109.729		TOTAL Ix ALUM + Ix STL X 2.9	122.887	

REINF. LENGTH = MULL LENGTH-6"



FL #16196

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SERIES-2047 ALUM CURTAIN WALL SYSTEM (L.M.I.)

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revisions:
no date by description

date: 08-24-17
scale: -
dr. by: TARIQ
chk. by:

drawing no.
W17-76
sheet 7.1 of 24

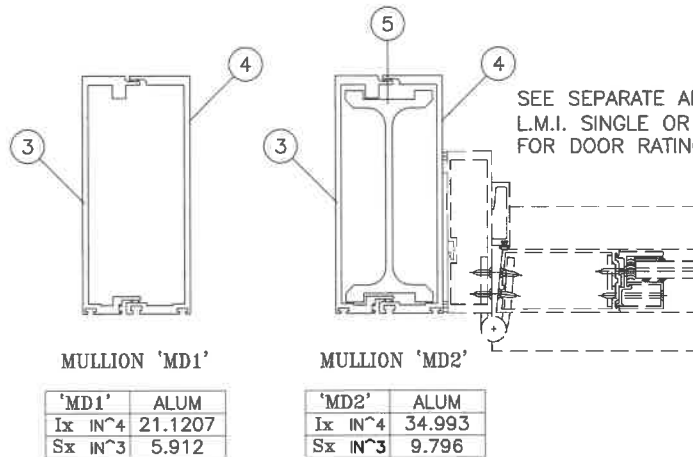
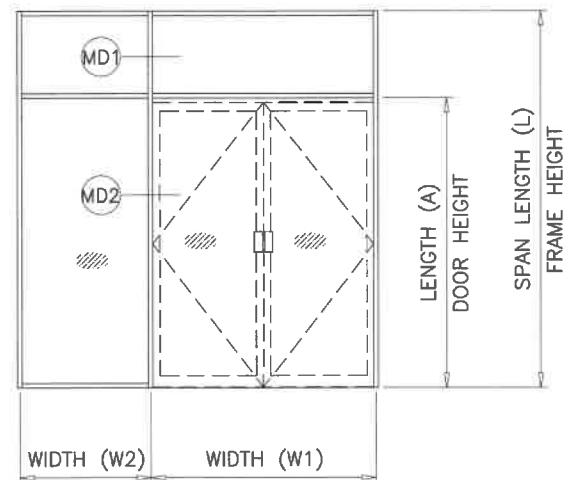
6-5/8" DOOR MULLION LOAD CAPACITY - PSF					
NOMINAL DIMS.				MULLION 'MD1'	MULLION 'MD2'
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	SPAN LENGTH (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
74-5/8"	30"	84"	108"	90.0	90.0
	36"			90.0	90.0
	42"			90.0	90.0
	48"			90.0	90.0
	54"			90.0	90.0
	60"			90.0	90.0
	66"			90.0	90.0
	72"			90.0	90.0
86-5/8"	30"			90.0	90.0
	36"			90.0	90.0
	42"			90.0	90.0
	48"			90.0	90.0
	54"			90.0	90.0
	60"			90.0	90.0
	66"			90.0	90.0
74-5/8"	30"	84"	120"	90.0	90.0
	36"			90.0	90.0
	42"			90.0	90.0
	48"			88.0	90.0
	54"			83.9	90.0
	60"			80.1	90.0
	66"			76.7	90.0
86-5/8"	30"			90.0	90.0
	36"			90.0	90.0
	42"			88.7	90.0
	48"			84.5	90.0
	54"			80.7	90.0
	60"			77.2	90.0
	66"			74.1	90.0
74-5/8"	30"	84"	132"	87.6	90.0
	36"			82.7	90.0
	42"			78.3	90.0
	48"			74.4	90.0
	54"			70.9	90.0
	60"			67.6	90.0
	66"			64.7	90.0
86-5/8"	30"			78.6	90.0
	36"			74.7	90.0
	42"			71.1	90.0
	48"			67.9	90.0
	54"			64.9	90.0
	60"			62.2	90.0
74-5/8"	30"	84"	144"	72.3	90.0
	36"			68.4	90.0
	42"			64.8	90.0
	48"			61.6	90.0
	54"			58.7	90.0
	60"			56.1	90.0
	66"			53.7	87.4
86-5/8"	72"			51.5	83.8
	30"			64.9	90.0
	36"			61.7	90.0
	42"			58.8	90.0
	48"			56.2	90.0

6-5/8" DOOR MULLION LOAD CAPACITY - PSF					
NOMINAL DIMS.				MULLION 'MD1'	MULLION 'MD2'
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	SPAN LENGTH (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
74-5/8"	30"	96"	108"	90.0	90.0
	36"			90.0	90.0
	42"			90.0	90.0
	48"			90.0	90.0
	54"			90.0	90.0
	60"			90.0	90.0
	66"			90.0	90.0
86-5/8"	72"			90.0	90.0
	30"			90.0	90.0
	36"			90.0	90.0
	42"			90.0	90.0
	48"			90.0	90.0
	54"			90.0	90.0
	60"			90.0	90.0
74-5/8"	66"			90.0	90.0
	72"			90.0	90.0
	30"		120"	90.0	90.0
	36"			90.0	90.0
	42"			90.0	90.0
	48"			90.0	90.0
	54"			90.0	90.0
	60"			87.0	90.0
86-5/8"	66"			82.9	90.0
	72"			79.2	90.0
	30"			90.0	90.0
	36"			90.0	90.0
	42"			90.0	90.0
	48"			88.6	90.0
	54"			84.3	90.0
74-5/8"	60"			80.5	90.0
	66"			77.0	90.0
	72"			73.7	90.0
	30"		132"	89.9	90.0
	36"			84.7	90.0
	42"			80.0	90.0
	48"			75.8	90.0
	54"			72.1	90.0
	60"			68.7	90.0
86-5/8"	66"			65.6	90.0
	72"			62.7	90.0
	30"			80.9	90.0
	36"			76.7	90.0
	42"			72.8	90.0
	48"			69.3	90.0
	54"			66.2	90.0
74-5/8"	60"			63.3	90.0
	66"			59.1	90.0
	72"			56.1	90.0
	30"		144"	72.9	90.0
	36"			68.8	90.0
	42"			65.1	90.0
	48"			61.8	90.0
	54"			58.8	90.0
	60"			56.1	90.0
	66"			53.7	87.4
86-5/8"	72"			51.5	83.8
	30"			64.9	90.0
	36"			61.7	90.0
	42"			58.8	90.0
	48"			56.2	90.0

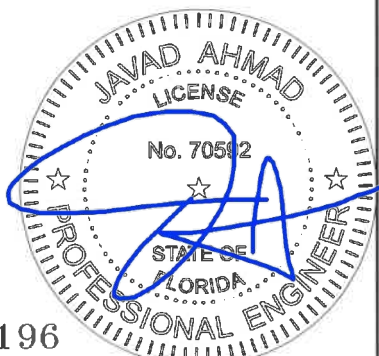
6-5/8" DOOR MULLION LOAD CAPACITY - PSF					
NOMINAL DIMS.				MULLION 'MD1'	MULLION 'MD2'
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	SPAN LENGTH (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
74-5/8"	30"	108"	120"	90.0	90.0
	36"			90.0	90.0
	42"			90.0	90.0
	48"			90.0	90.0
	54"			90.0	90.0
	60"			88.4	90.0
	66"			84.0	90.0
86-5/8"	72"			90.0	90.0
	30"			90.0	90.0
	36"			90.0	90.0
	42"			90.0	90.0
	48"			90.0	90.0
	54"			90.0	90.0
	60"			86.8	90.0
74-5/8"	66"			82.6	90.0
	72"			78.8	90.0
	30"		132"	90.0	90.0
	36"			89.3	90.0
	42"			84.0	90.0
	48"			79.3	90.0
	54"			75.1	90.0
	60"			71.3	90.0
86-5/8"	66"			67.9	90.0
	72"			64.8	90.0
	30"			86.0	90.0
	36"			81.1	90.0
	42"			76.7	90.0
	48"			72.8	90.0
	54"			69.3	90.0
74-5/8"	60"			66.0	90.0
	30"		144"	75.2	90.0
	36"			70.7	90.0
	42"			66.8	90.0
	48"			63.2	90.0
	54"			60.0	90.0
	60"			57.2	90.0
86-5/8"	66"			67.7	90.0
	72"			64.1	90.0
	30"			60.8	90.0
	36"			57.9	90.0
	42"				
	48"				

6-5/8" DOOR MULLION LOAD CAPACITY - PSF					
NOMINAL DIMS.				MULLION 'MD1'	MULLION 'MD2'
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	SPAN LENGTH (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
74-5/8"	30"	108"	132"	90.0	90.0
	36"			90.0	90.0
	42"			90.0	90.0
	48"			85.5	90.0
	54"			80.5	90.0
	60"			76.1	90.0
	66"			72.2	90.0
86-5/8"	72"			68.6	90.0
	30"			90.0	90.0
	36"			89.1	90.0
	42"			83.8	90.0
	48"			79.0	90.0
	54"			74.8	90.0
	60"			70.9	90.0
74-5/8"	66"			79.6	90.0
	72"			74.6	90.0
	30"		144"	70.1	90.0
	36"			66.1	90.0
	42"			62.6	90.0
	48"			59.4	90.0
	54"			72.0	90.0
	60"			67.8	90.0
86-5/8"	66"			64.1	90.0
	72"				

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



SEE SEPARATE APPROVAL OF L.M.I. SINGLE OR DOUBLE DOOR W/ SUBFRAME FOR DOOR RATING, ANCHORS & DETAILS



FL #16196

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

SERIES-2047 ALUM CURTAIN WALL SYSTEM (L.M.I.)

Glass Tech Engineering, Inc.
8321 N.W. 70th Street
Miami, FL. 33166
Tel. (305) 594-4321 Fax. (305) 599-2730

revisions: no date by description

date: 08-24-17 scale: - dr. by: TARIQ chk. by:

drawing no. **W17-76**

sheet 8 of 24

8-1/4" DOOR MULLION LOAD CAPACITY - PSF						
NOMINAL DIMS.				MULLION 'MD3'	MULLION 'MD4'	MULLION 'MD5'
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	SPAN LENGTH (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
74-5/8"	36"	84"	132"	100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			100.0	100.0	100.0
	84"			100.0	100.0	100.0
86-5/8"	36"			100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			100.0	100.0	100.0
	84"			100.0	100.0	100.0
96"	36"			100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			100.0	100.0	100.0
	84"			100.0	100.0	100.0
74-5/8"	36"	84"	144"	100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			100.0	100.0	100.0
	84"			100.0	100.0	100.0
86-5/8"	36"			100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			100.0	100.0	100.0
	84"			99.5	100.0	100.0
96"	36"			100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			100.0	100.0	100.0
	84"			94.3	100.0	100.0
74-5/8"	36"	84"	156"	100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			98.1	100.0	100.0
	84"			90.6	100.0	100.0
86-5/8"	36"			100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			98.1	100.0	100.0
	72"			90.7	100.0	100.0
	84"			84.3	100.0	100.0
96"	36"			100.0	100.0	100.0
	48"			99.9	100.0	100.0
	60"			92.2	100.0	100.0
	72"			85.6	100.0	100.0
	84"			79.9	100.0	100.0
74-5/8"	36"	84"	168"	100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			92.0	100.0	100.0
	72"			84.4	100.0	100.0
	84"			78.0	100.0	100.0
86-5/8"	36"			100.0	100.0	100.0
	48"			92.0	100.0	100.0
	60"			84.4	100.0	100.0
	72"			78.0	100.0	100.0
	84"			72.6	100.0	100.0
96"	36"			93.8	100.0	100.0
	48"			86.0	100.0	100.0
	60"			79.4	100.0	100.0
	72"			73.7	100.0	100.0
	84"			68.8	100.0	100.0

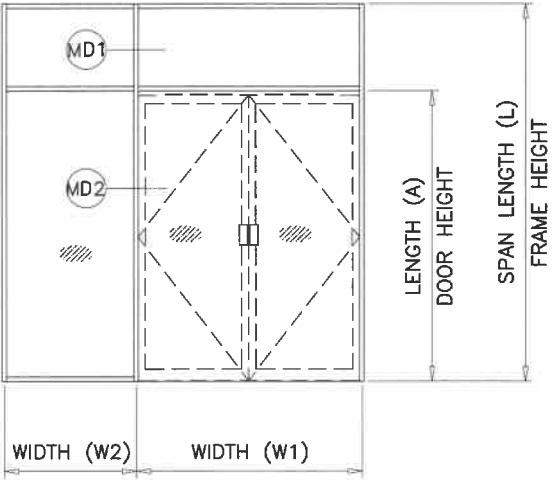
8-1/4" DOOR MULLION LOAD CAPACITY - PSF						
NOMINAL DIMS.				MULLION 'MD3'	MULLION 'MD4'	MULLION 'MD5'
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	SPAN LENGTH (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
74-5/8"	36"	84"	180"	97.6	100.0	100.0
	48"			88.1	100.0	100.0
	60"			80.2	100.0	100.0
	72"			73.6	100.0	100.0
	84"			68.1	100.0	100.0
86-5/8"	36"			88.1	100.0	100.0
	48"			80.2	100.0	100.0
	60"			73.6	100.0	100.0
	72"			68.1	100.0	100.0
	84"			63.3	100.0	100.0
96"	36"			81.8	100.0	100.0
	48"			75.0	100.0	100.0
	60"			69.2	100.0	100.0
	72"			64.3	100.0	100.0
	84"			60.0	95.7	100.0
74-5/8"	36"	84"	192"	86.1	100.0	100.0
	48"			77.5	100.0	100.0
	60"			70.1	100.0	100.0
	72"			64.0	100.0	100.0
	84"			58.9	95.7	100.0
86-5/8"	36"			77.7	100.0	100.0
	48"			70.8	100.0	100.0
	60"			64.6	100.0	100.0
	72"			59.4	95.8	100.0
	84"			55.0	89.0	98.8
96"	36"			72.2	100.0	100.0
	48"			66.2	100.0	100.0
	60"			60.9	97.5	100.0
	72"			56.3	90.5	100.0
	84"			52.3	84.4	93.7
74-5/8"	36"	84"	204"	72.8	100.0	100.0
	48"			65.1	100.0	100.0
	60"			58.9	100.0	100.0
	72"			53.7	92.1	100.0
	84"			49.4	85.1	94.4
86-5/8"	36"			66.0	100.0	100.0
	48"			59.6	100.0	100.0
	60"			54.3	92.3	100.0
	72"			49.9	85.2	94.6
	84"			46.2	79.2	87.9
96"	36"			61.4	100.0	100.0
	48"			55.9	94.0	100.0
	60"			51.2	86.7	96.3
	72"			47.3	80.5	89.3
	84"			43.9	75.1	83.3
74-5/8"	36"	84"	216"	62.0	100.0	100.0
	48"			55.3	99.0	100.0
	60"			50.0	90.0	99.9
	72"			45.6	82.6	91.6
	84"			41.9	76.2	84.6
86-5/8"	36"			56.2	99.2	100.0
	48"			50.7	90.2	100.0
	60"			46.2	82.7	91.8
	72"			42.4	76.4	84.8
	84"			39.2	71.0	78.7
96"	36"			52.4	92.2	100.0
	48"			47.5	84.4	93.7
	60"			43.5	77.8	86.3
	72"			40.2	72.2	80.1
	84"			37.3	40.0	40.0

8-1/4" DOOR MULLION LOAD CAPACITY - PSF						
NOMINAL DIMS.				MULLION 'MD3'	MULLION 'MD4'	MULLION 'MD5'
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	SPAN LENGTH (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
74-5/8"	36"			100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			100.0	100.0	100.0
	84"			100.0	100.0	100.0
86-5/8"	36"	96"	132"	100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			100.0	100.0	100.0
	84"			100.0	100.0	100.0
96"	36"			100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			100.0	100.0	100.0
	84"			100.0	100.0	100.0
74-5/8"	36"			100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			100.0	100.0	100.0
	84"			100.0	100.0	100.0
86-5/8"	36"	96"	144"	100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			100.0	100.0	100.0
	84"			98.4	100.0	100.0
96"	36"			100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			100.0	100.0	100.0
	84"			93.4	100.0	100.0
74-5/8"	36"			100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			96.1	100.0	100.0
	84"			88.7	100.0	100.0
86-5/8"	36"	96"	156"	100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			96.3	100.0	100.0
	72"			88.9	100.0	100.0
	84"			82.6	100.0	100.0
96"	36"			100.0	100.0	100.0
	48"			98.3	100.0	100.0
	60"			90.6	100.0	100.0
	72"			84.0	100.0	100.0
	84"			78.3	100.0	100.0
74-5/8"	36"			100.0	100.0	100.0
	48"			98.4	100.0	100.0
	60"			89.5	100.0	100.0
	72"			82.2	100.0	100.0
	84"			75.9	100.0	100.0
86-5/8"	36"	96"	168"	98.5	100.0	100.0
	48"			89.6	100.0	100.0
	60"			82.2	100.0	100.0
	72"			76.0	100.0	100.0
	84"			70.6	100.0	100.0
96"	36"			91.5	100.0	100.0
	48"			83.8	100.0	100.0
	60"			77.3	100.0	100.0
	72"			71.8	100.0	100.0
	84"			67.0	100.0	100.0

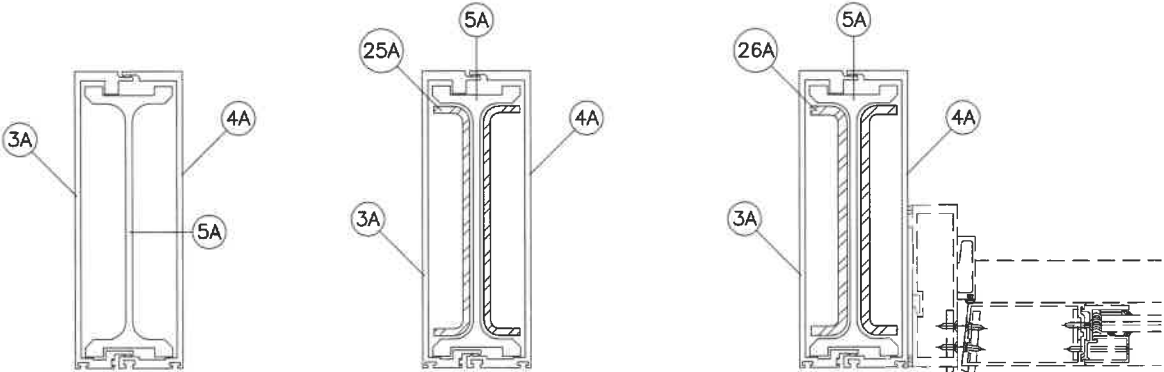
8-1/4" DOOR MULLION LOAD CAPACITY - PSF						
NOMINAL DIMS.				MULLION 'MD3'	MULLION 'MD4'	MULLION 'MD5'
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	SPAN LENGTH (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
74-5/8"	36"			94.5	100.0	100.0
	48"			85.3	100.0	100.0
	60"			77.7	100.0	100.0
	72"			71.3	100.0	100.0
	84"			65.9	100.0	100.0
86-5/8"	36"	96"	180"	85.3	100.0	100.0
	48"			77.7	100.0	100.0
	60"			71.3	100.0	100.0
	72"			65.9	100.0	100.0
	84"			61.3	100.0	100.0
96"	36"			79.2	100.0	100.0
	48"			72.6	100.0	100.0
	60"			67.0	100.0	100.0
	72"			62.2	100.0	100.0
	84"			58.1	95.7	100.0
74-5/8"	36"			83.0	100.0	100.0
	48"			74.8	100.0	100.0
	60"			68.2	100.0	100.0
	72"			62.6	100.0	100.0
	84"			57.9	95.4	100.0
86-5/8"	36"	96"	192"	74.8	100.0	100.0
	48"			68.2	100.0	100.0
	60"			62.6	100.0	100.0
	72"			57.9	95.4	100.0
	84"			53.8	88.7	98.4
96"	36"			69.5	100.0	100.0
	48"			63.7	100.0	100.0
	60"			58.8	97.0	100.0
	72"			54.6	90.1	96.5
	84"			51.0	84.1	93.3
74-5/8"	36"			71.6	100.0	100.0
	48"			64.2	100.0	100.0
	60"			58.1	99.6	100.0
	72"			53.1	91.5	100.0
	84"			48.9	84.6	93.8
86-5/8"	36"	96"	204"	64.9	100.0	100.0
	48"			58.7	99.7	100.0
	60"			53.6	91.5	100.0
	72"			49.3	84.6	93.8
	84"			45.6	78.6	87.2
96"	36"			60.4	100.0	100.0
	48"			55.0	93.2	100.0
	60"			50.5	86.0	95.4
	72"			46.6	79.9	88.6
	84"			43.4	74.5	82.7
74-5/8"	36"			60.7	100.0	100.0
	48"			54.3	97.9	100.0
	60"			49.2	89.1	98.9
	72"			44.9	81.8	87.2
	84"			41.3	75.6	83.9
86-5/8"	36"	96"	216"	54.9	97.9	100.0
	48"			49.7	89.2	98.9
	60"			45.3	81.8	90.8
	72"			41.7	75.6	83.9
	84"			38.6	70.3	78.0
96"	36"			51.2	91.0	100.0
	48"			46.6	83.4	92.5
	60"			42.7	76.9	85.4
	72"			39.5	71.4	79.2
	84"			36.7	40.0	40.0

8-1/4" DOOR MULLION LOAD CAPACITY - PSF						
NOMINAL DIMS.				MULLION 'MD3'	MULLION 'MD4'	MULLION 'MD5'
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	SPAN LENGTH (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
74-5/8"	36"			40.0	40.0	40.0
	48"			40.0	40.0	40.0
	60"			40.0	40.0	40.0
	72"			38.4	40.0	40.0
	84"			35.3	40.0	40.0
86-5/8"	36"	96"	228"	40.0	40.0	40.0
	48"			40.0	40.0	40.0
	60"			38.8	40.0	40.0
	72"			35.6	40.0	40.0
	84"			40.0	40.0	40.0
96"	36"			39.9	40.0	40.0
	48"			36.6	40.0	40.0
	60"			33.8	40.0	40.0
	72"					
	84"					
74-5/8"	36"			40.0	40.0	40.0
	48"			40.0	40.0	40.0
	60"			36.3	40.0	40.0
	72"			33.1	40.0	40.0
	84"			30.4	40.0	40.0
86-5/8"	36"	96"	240"	40.0	40.0	40.0
	48"			36.8	40.0	40.0
	60"			33.5	40.0	40.0
	72"			30.8	40.0	40.0
	84"			37.9	40.0	40.0
96"	36"			34.5	40.0	40.0
	48"			31.6	40.0	40.0
	60"					
	72"					
	84"					

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



SEE SEPARATE APPROVAL OF L.M.I. SINGLE OR DOUBLE DOOR W/ SUBFRAME FOR DOOR RATING, ANCHORS & DETAILS

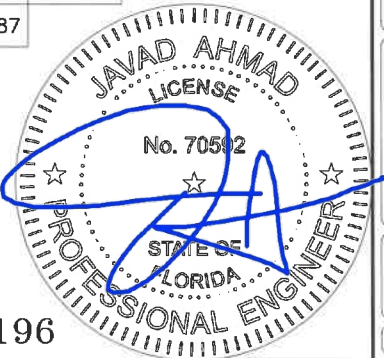


MD3	ALUM
Ix IN^4	66.395
Sx IN^3	14.622

	Ix IN^4	Sx IN^3
ALUMINUM	66.395	14.622
STEEL	14.943	4.426
TOTAL		
Ix ALUM + Ix STL X 2.9	109.729	

REINF. LENGTH = MULL LENGTH-6"

	Ix IN^4	Sx IN^3
ALUMINUM	66.395	14.622
STEEL	19.480	5.717
TOTAL		
Ix ALUM + Ix STL X 2.9	122.887	



FL #16196

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W17-76GTE

SERIES-2047 ALUM CURTAIN WALL SYSTEM (L.M.I.)

Glass Tech Engineering, Inc.
8321 N.W. 70th Street
Miami, FL. 33166
Tel. (305) 594-4321 Fax. (305) 599-2730

revisions:
no date by description

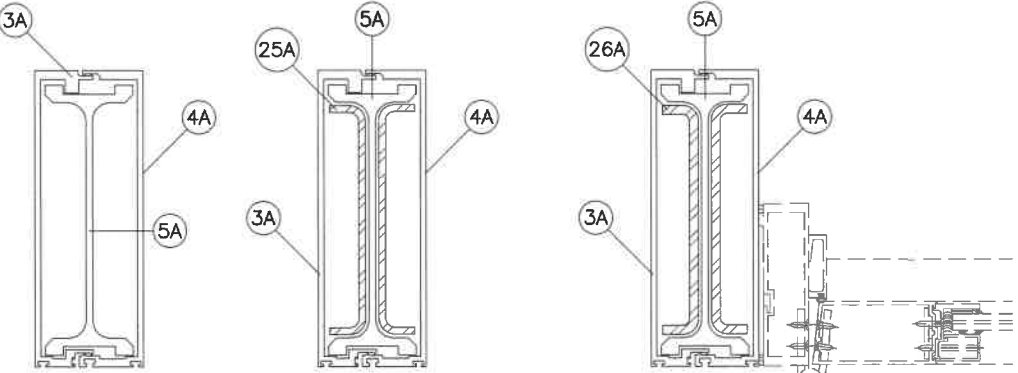
date: 08-24-17
scale: -
dr. by: TARIQ
chk. by:

drawing no.
W17-76
sheet 8.2 of 24

8-1/4" DOOR MULLION LOAD CAPACITY - PSF						
NOMINAL DIMS.				MULLION 'MD3'	MULLION 'MD4'	MULLION 'MD5'
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	SPAN LENGTH (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
74-5/8"	36"			100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			100.0	100.0	100.0
	84"			99.6	100.0	100.0
86-5/8"	36"	108"	120"	100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			100.0	100.0	100.0
	84"			93.9	100.0	100.0
96"	36"			100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			97.8	100.0	100.0
	84"			89.9	100.0	100.0
74-5/8"	36"			100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			92.8	100.0	100.0
	72"			84.4	100.0	100.0
	84"			77.3	100.0	100.0
86-5/8"	36"	108"	132"	100.0	100.0	100.0
	48"			94.8	100.0	100.0
	60"			85.9	100.0	100.0
	72"			78.6	100.0	100.0
	84"			72.5	100.0	100.0
96"	36"			98.6	100.0	100.0
	48"			89.1	100.0	100.0
	60"			81.2	100.0	100.0
	72"			74.7	100.0	100.0
	84"			69.1	100.0	100.0
74-5/8"	36"			92.0	100.0	100.0
	48"			82.3	100.0	100.0
	60"			74.4	100.0	100.0
	72"			67.9	100.0	100.0
	84"			62.4	100.0	100.0
86-5/8"	36"	108"	144"	83.4	100.0	100.0
	48"			75.3	100.0	100.0
	60"			68.7	100.0	100.0
	72"			63.1	100.0	100.0
	84"			58.3	96.4	100.0
96"	36"			77.7	100.0	100.0
	48"			70.6	100.0	100.0
	60"			64.7	100.0	100.0
	72"			59.8	98.8	100.0
	84"			55.5	91.7	100.0
74-5/8"	36"			75.6	100.0	100.0
	48"			67.8	100.0	100.0
	60"			61.5	100.0	100.0
	72"			56.3	93.0	100.0
	84"			51.9	85.7	96.0
86-5/8"	36"	108"	156"	68.4	100.0	100.0
	48"			62.0	100.0	100.0
	60"			56.7	93.6	100.0
	72"			52.2	86.2	96.6
	84"			48.4	79.9	89.5
96"	36"			63.6	100.0	100.0
	48"			58.0	95.9	100.0
	60"			53.3	88.2	98.7
	72"			49.4	81.6	91.4
	84"			45.9	75.9	85.0

8-1/4" DOOR MULLION LOAD CAPACITY - PSF						
NOMINAL DIMS.				MULLION 'MD3'	MULLION 'MD4'	MULLION 'MD5'
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	SPAN LENGTH (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
74-5/8"	36"			63.7	100.0	100.0
	48"			57.3	94.7	100.0
	60"			52.1	86.0	96.3
	72"			47.7	78.8	88.3
	84"			44.0	72.8	81.5
86-5/8"	36"	108"	168"	57.5	95.1	100.0
	48"			52.2	86.4	96.7
	60"			47.9	79.1	88.6
	72"			44.2	73.0	81.7
	84"			41.0	67.7	75.9
96"	36"			53.5	88.4	99.0
	48"			48.9	80.8	90.5
	60"			45.0	74.4	83.4
	72"			41.7	69.0	77.3
	84"			38.9	64.3	72.0
74-5/8"	36"			54.7	90.4	100.0
	48"			49.3	81.4	91.2
	60"			44.8	74.1	82.9
	72"			41.1	67.9	76.1
	84"			38.0	62.8	70.3
86-5/8"	36"	108"	180"	49.4	81.6	91.3
	48"			44.9	74.2	83.1
	60"			41.2	68.1	76.2
	72"			38.0	62.8	70.4
	84"			35.3	58.4	65.4
96"	36"			45.9	75.8	84.9
	48"			42.0	69.4	77.7
	60"			38.7	64.0	71.7
	72"			35.9	59.4	66.5
	84"			33.5	55.4	62.0
74-5/8"	36"			47.7	78.8	88.2
	48"			43.0	71.0	79.5
	60"			39.1	64.7	72.4
	72"			35.9	59.3	66.5
	84"			33.2	54.8	61.4
86-5/8"	36"	108"	192"	43.0	71.1	79.6
	48"			39.1	64.7	72.5
	60"			35.9	59.4	66.5
	72"			33.2	54.9	61.4
	84"			30.9	51.0	57.1
96"	36"			40.0	66.0	73.9
	48"			36.6	60.5	67.8
	60"			33.8	55.8	62.5
	72"			31.4	51.8	58.0
	84"			29.3	48.3	54.1
74-5/8"	36"			42.0	69.5	77.8
	48"			37.9	62.7	70.2
	60"			34.5	57.1	63.9
	72"			31.7	52.4	58.7
	84"			29.3	48.4	54.2
86-5/8"	36"	108"	204"	37.9	62.7	70.2
	48"			34.5	57.1	63.9
	60"			31.7	52.4	58.7
	72"			29.3	48.4	54.3
	84"			27.2	45.0	50.4
96"	36"			35.2	58.2	65.2
	48"			32.3	53.4	59.8
	60"			29.8	49.3	55.2
	72"			27.7	45.7	51.2
	84"			25.8	42.7	47.8

8-1/4" DOOR MULLION LOAD CAPACITY - PSF						
NOMINAL DIMS.				MULLION 'MD3'	MULLION 'MD4'	MULLION 'MD5'
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	SPAN LENGTH (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
74-5/8"	36"			37.5	61.9	69.3
	48"			33.8	55.8	62.5
	60"			30.8	50.9	57.0
	72"			28.3	46.7	52.3
	84"			26.1	43.2	48.3
86-5/8"	36"	108"	216"	33.8	55.8	62.5
	48"			30.8	50.9	57.0
	60"			28.3	46.7	52.3
	72"			26.1	43.2	48.3
	84"			24.3	40.1	44.9
96"	36"			31.4	51.9	58.1
	48"			28.8	47.6	53.3
	60"			26.6	43.9	49.2
	72"			24.7	40.8	45.6
	84"			23.0	38.0	42.6
74-5/8"	36"			33.6	40.0	40.0
	48"			30.4	40.0	40.0
	60"			27.6	40.0	40.0
	72"			25.4	40.0	40.0
	84"			23.5	38.8	40.0
86-5/8"	36"	108"	228"	30.4	40.0	40.0
	48"			27.6	40.0	40.0
	60"			25.4	40.0	40.0
	72"			23.5	38.8	40.0
	84"			21.2	35.0	39.3
96"	36"			28.2	40.0	40.0
	48"			25.8	40.0	40.0
	60"			23.9	39.4	40.0
	72"			22.2	36.6	40.0
	84"			20.9	34.0	38.0
74-5/8"	36"			30.4	40.0	40.0
	48"			27.5	40.0	40.0
	60"			25.0	40.0	40.0
	72"			22.9	37.9	40.0
	84"			21.2	35.0	39.3
86-5/8"	36"	108"	240"	27.5	40.0	40.0
	48"			25.0	40.0	40.0
	60"			23.0	37.9	40.0
	72"			21.2	35.1	39.3
	84"			19.5	32.5	36.5
96"	36"			25.5	40.0	40.0
	48"			23.4	38.6	40.0
	60"			21.6	35.7	39.9
	72"			19.8	32.8	36.8
	84"			18.0	30.0	34.0



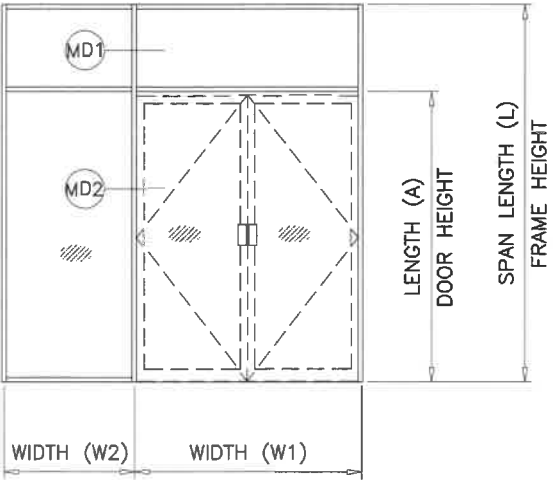
DOOR MULL 'MD3'		DOOR MULL 'MD4'		DOOR MULL 'MD5'	
MD3	ALUM	MD4	ALUM	MD5	ALUM
Ix IN^4	66.395	Ix IN^4	66.395	Ix IN^4	66.

8-1/4" DOOR MULLION LOAD CAPACITY - PSF						
NOMINAL DIMS.				MULLION 'MD3'	MULLION 'MD4'	MULLION 'MD5'
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	SPAN LENGTH (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
74-5/8"	36"			100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			91.1	100.0	100.0
	72"			82.1	100.0	100.0
	84"			74.7	100.0	100.0
86-5/8"	36"	120"	132"	100.0	100.0	100.0
	48"			94.5	100.0	100.0
	60"			84.9	100.0	100.0
	72"			77.0	100.0	100.0
	84"			70.5	100.0	100.0
96"	36"			100.0	100.0	100.0
	48"			89.3	100.0	100.0
	60"			80.6	100.0	100.0
	72"			73.5	100.0	100.0
	84"			67.5	100.0	100.0
74-5/8"	36"			89.2	100.0	100.0
	48"			79.1	100.0	100.0
	60"			71.1	100.0	100.0
	72"			64.5	100.0	100.0
	84"			59.1	97.6	100.0
86-5/8"	36"	120"	144"	81.2	100.0	100.0
	48"			72.7	100.0	100.0
	60"			65.9	100.0	100.0
	72"			60.2	99.5	100.0
	84"			55.4	91.6	100.0
96"	36"			75.8	100.0	100.0
	48"			68.4	100.0	100.0
	60"			62.3	100.0	100.0
	72"			57.2	94.5	100.0
	84"			52.9	87.4	97.9
74-5/8"	36"			71.6	100.0	100.0
	48"			63.9	100.0	100.0
	60"			57.7	95.4	100.0
	72"			52.6	87.0	97.4
	84"			48.4	79.9	89.5
86-5/8"	36"	120"	156"	65.0	100.0	100.0
	48"			58.6	96.8	100.0
	60"			53.3	88.1	98.7
	72"			48.9	80.9	90.6
	84"			45.2	74.7	83.7
96"	36"			60.5	100.0	100.0
	48"			55.0	90.8	100.0
	60"			50.3	83.2	93.1
	72"			46.4	76.7	85.9
	84"			43.0	71.1	79.7
74-5/8"	36"			59.4	98.2	100.0
	48"			53.2	88.0	98.5
	60"			48.2	79.7	89.3
	72"			44.1	72.9	81.6
	84"			40.6	67.1	75.2
86-5/8"	36"	120"	168"	53.8	88.8	99.5
	48"			48.7	80.4	90.1
	60"			44.5	73.5	82.3
	72"			40.9	67.6	75.7
	84"			37.9	62.6	70.1
96"	36"			50.0	82.7	92.6
	48"			45.6	75.4	84.4
	60"			41.9	69.2	77.5
	72"			38.7	64.0	71.7
	84"			36.0	59.5	66.6

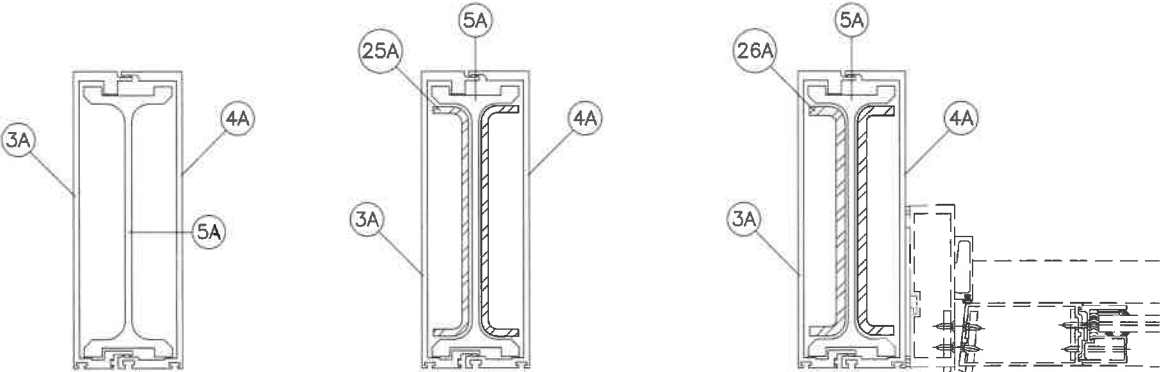
8-1/4" DOOR MULLION LOAD CAPACITY - PSF						
NOMINAL DIMS.				MULLION 'MD3'	MULLION 'MD4'	MULLION 'MD5'
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	SPAN LENGTH (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
74-5/8"	36"			50.4	83.3	93.3
	48"			45.3	74.9	83.9
	60"			41.2	68.0	76.2
	72"			37.7	62.3	69.8
	84"			34.8	57.4	64.3
86-5/8"	36"	120"	180"	45.6	75.3	84.4
	48"			41.4	68.4	76.6
	60"			37.9	62.6	70.1
	72"			34.9	57.7	64.6
	84"			32.4	53.5	59.9
96"	36"			42.4	70.1	78.5
	48"			38.7	64.0	71.7
	60"			35.6	58.9	66.0
	72"			33.0	54.6	61.1
	84"			30.7	50.8	56.9
74-5/8"	36"			43.6	72.0	80.7
	48"			39.2	64.8	72.6
	60"			35.7	59.0	66.0
	72"			32.7	54.1	60.5
	84"			30.2	49.9	55.9
86-5/8"	36"	120"	192"	39.4	65.0	72.8
	48"			35.8	59.1	66.2
	60"			32.8	54.2	60.7
	72"			30.3	50.0	56.0
	84"			28.1	46.5	52.0
96"	36"			36.6	60.5	67.7
	48"			33.5	55.3	62.0
	60"			30.8	51.0	57.1
	72"			28.6	47.3	52.9
	84"			26.7	44.1	49.4
74-5/8"	36"			38.2	63.1	70.7
	48"			34.4	56.9	63.7
	60"			31.3	51.8	58.0
	72"			28.7	47.5	53.2
	84"			26.6	43.9	49.1
86-5/8"	36"	120"	204"	34.5	57.0	63.8
	48"			31.4	51.8	58.1
	60"			28.8	47.6	53.3
	72"			26.6	43.9	49.2
	84"			24.7	40.8	45.7
96"	36"			32.0	52.9	59.3
	48"			29.3	48.5	54.3
	60"			27.1	44.7	50.1
	72"			25.1	41.5	46.5
	84"			23.4	38.7	43.3
74-5/8"	36"			33.8	55.9	62.7
	48"			30.5	50.4	56.5
	60"			27.8	45.9	51.4
	72"			25.5	42.2	47.2
	84"			23.6	39.0	43.6
86-5/8"	36"	120"	216"	30.5	50.5	56.5
	48"			27.8	46.0	51.5
	60"			25.5	42.2	47.2
	72"			23.6	39.0	43.7
	84"			21.9	36.2	40.6
96"	36"			28.4	46.9	52.5
	48"			26.0	43.0	48.1
	60"			24.0	39.7	44.4
	72"			22.3	36.8	41.2
	84"			20.8	34.4	38.5

8-1/4" DOOR MULLION LOAD CAPACITY - PSF						
NOMINAL DIMS.				MULLION 'MD3'	MULLION 'MD4'	MULLION 'MD5'
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	SPAN LENGTH (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
74-5/8"	36"			30.3	40.0	40.0
	48"			27.3	40.0	40.0
	60"			24.9	40.0	40.0
	72"			22.8	37.8	40.0
	84"			21.1	34.9	39.1
86-5/8"	36"	120"	228"	27.3	40.0	40.0
	48"			24.9	40.0	40.0
	60"			22.8	37.8	40.0
	72"			21.1	34.9	39.1
	84"			25.4	40.0	40.0
96"	36"			23.3	38.4	40.0
	48"			21.5	35.5	39.7
	60"			-	33.0	36.9
	72"			-	-	-
	84"			-	-	-
74-5/8"	36"			27.3	40.0	40.0
	48"			24.6	40.0	40.0
	60"			22.4	37.1	40.0
	72"			20.6	34.0	38.1
	84"			-	31.5	35.2
86-5/8"	36"	120"	240"	24.6	40.0	40.0
	48"			22.4	37.1	40.0
	60"			20.6	34.0	38.1
	72"			-	31.5	35.2
	84"			22.9	37.8	40.0
96"	36"			21.0	34.7	38.8
	48"			-	32.0	35.8
	60"			-	-	-
	72"			-	-	-
	84"			-	-	-

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



SEE SEPARATE APPROVAL OF L.M.I. SINGLE OR DOUBLE DOOR W/ SUBFRAME FOR DOOR RATING, ANCHORS & DETAILS

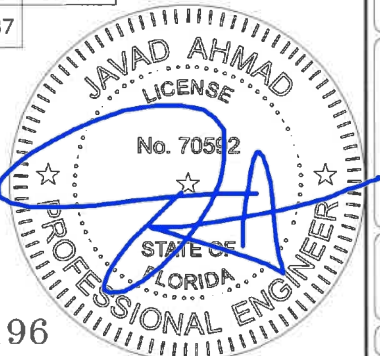


MD3	ALUM
Ix IN^4	66.395
Sx IN^3	14.622

	Ix IN^4	Sx IN^3
ALUMINUM	66.395	14.622
STEEL	14.943	4.426
TOTAL Ix ALUM + Ix STL X 2.9	109.729	

REINF. LENGTH = MULL LENGTH-6"

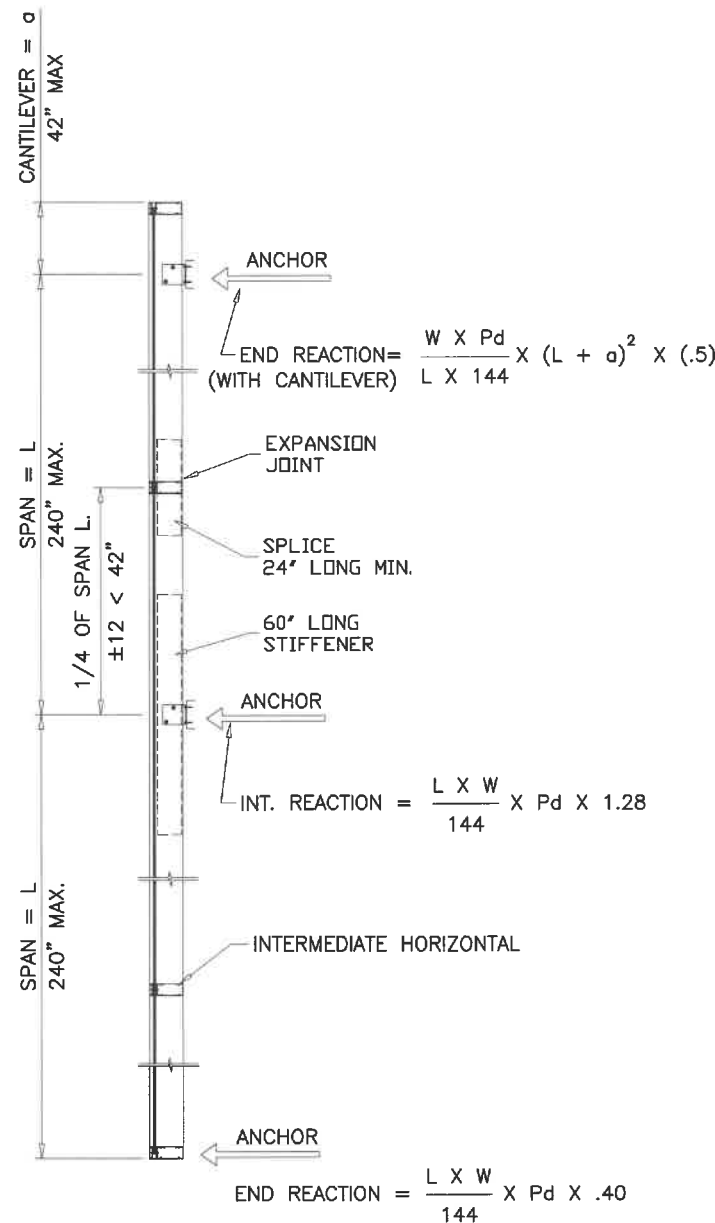
	Ix IN^4	Sx IN^3
ALUMINUM	66.395	14.622
STEEL	19.480	5.717
TOTAL Ix ALUM + Ix STL X 2.9	122.887	



FL #16196

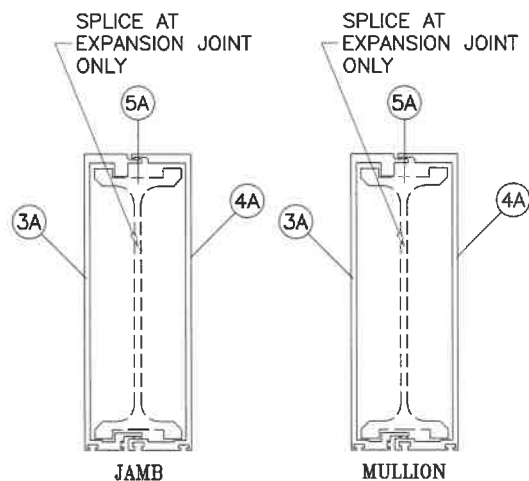
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL (305) 264-8100 FAX (305) 262-6978
COMP-ANL\W17-76GTE

SERIES-2047 ALUM CURTAIN WALL SYSTEM (L.M.I.)

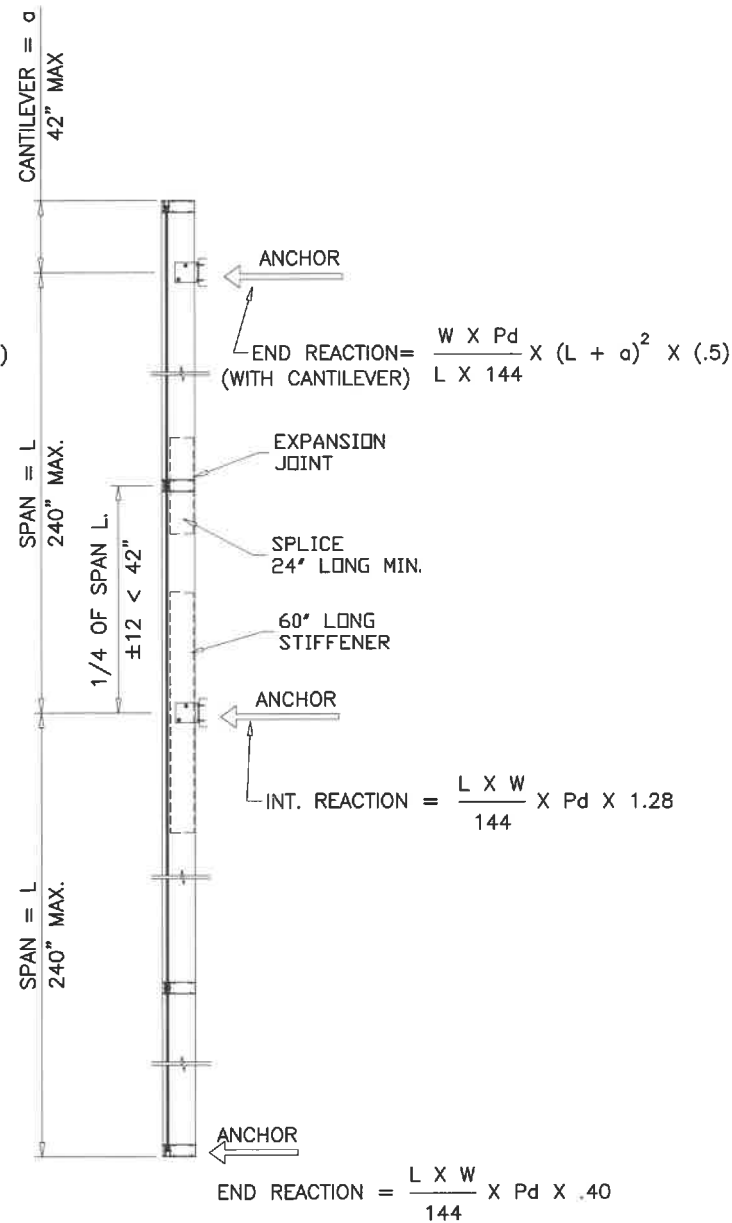


MULTIPLE SPANS

MULTIPLE SPANS WITH OR WITHOUT CANTILEVER
USE TABLE ON SHEETS 7 & 7.1.

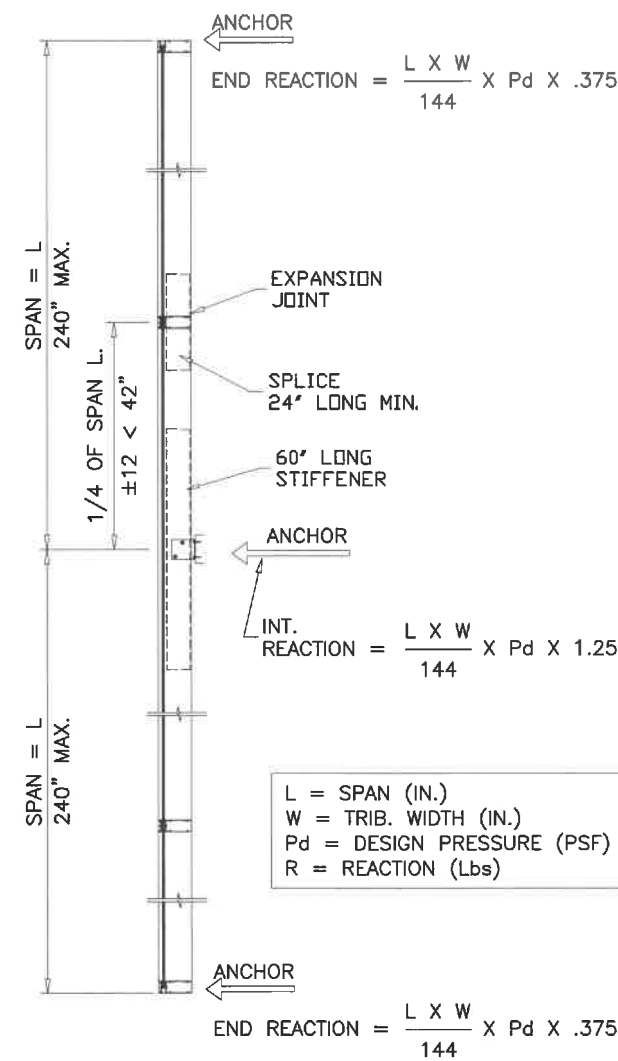


8-1/4" MULLION SYSTEM



TWO SPANS

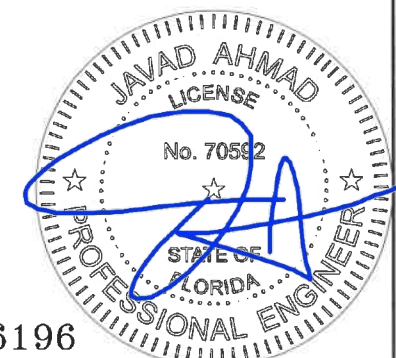
TWO SPANS WITH CANTILEVER, WITH
AND WITHOUT SPLICE/EXPANSION JOINT
USE TABLE ON SHEETS 7 & 7.1.



TWO SPANS

TWO SPANS WITHOUT CANTILEVER, WITH
AND WITHOUT SPLICE/EXPANSION JOINT
USE TABLE ON SHEETS 7 & 7.1.

INTERMEDIATE HORIZONTAL IS AN INTEGRAL PART OF TWO OR MULTIPLE SPANS.
UNEQUAL SPANS TO BE CHECKED ON JOB TO JOB BASIS
UNDER SEPARATE APPROVAL TO BE REVIEWED BY BUILDING OFFICIAL
END REACTIONS MAY CHANGE WITH LOCATION OF
EXPANSION JOINT AND LENGTH OF CANTILEVER
WORST CONDITION SHOWN.



FL #16196

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SERIES-2047 ALUM CURTAIN WALL SYSTEM (L.M.I.)

Glass Tech Engineering, Inc.
8321 N.W. 70th Street
Miami, FL. 33166
Tel. (305) 594-4321 Fax. (305) 599-2730

revisions:
no date by description

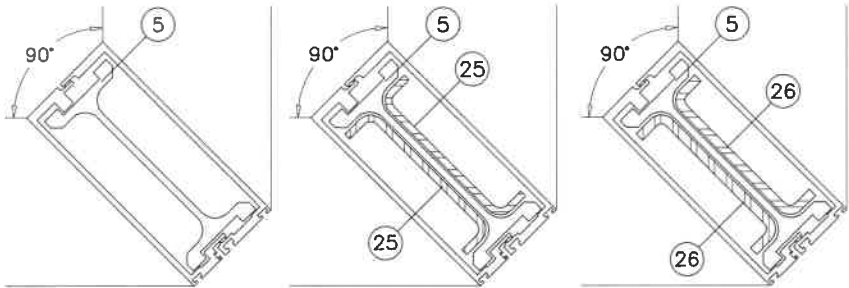
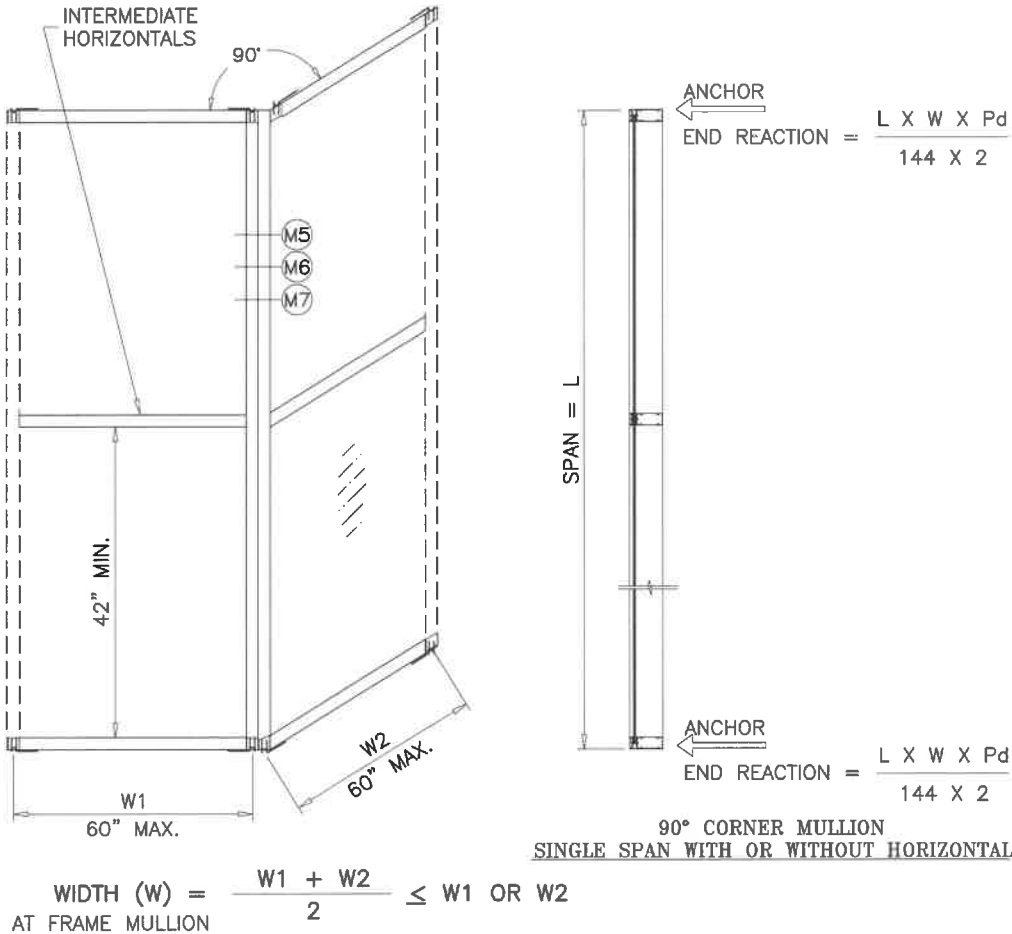
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scale: -
dr. by: TARIQ
chk. by:

drawing no.
W17-76
sheet 9.1 of 24

CORNER MULLION LOAD CAPACITY - PSF SINGLE SPANS WITH OR W/O HORIZONTAL				
NOMINAL DIMS.		MULLION 'CM1'	MULLION 'CM2'	MULLION 'CM3'
WIDTH (W)	SPAN = L	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36"	120"	120.0	120.0	120.0
42"		120.0	120.0	120.0
48"		120.0	120.0	120.0
54"		120.0	120.0	120.0
60"		120.0	120.0	120.0
66"		120.0	120.0	120.0
72"		120.0	120.0	120.0
84"		120.0	120.0	120.0
36"	126"	120.0	120.0	120.0
42"		120.0	120.0	120.0
48"		120.0	120.0	120.0
54"		120.0	120.0	120.0
60"		120.0	120.0	120.0
66"		120.0	120.0	120.0
72"		120.0	120.0	120.0
84"		120.0	120.0	120.0
36"	132"	120.0	120.0	120.0
42"		120.0	120.0	120.0
48"		120.0	120.0	120.0
54"		120.0	120.0	120.0
60"		120.0	120.0	120.0
66"		120.0	120.0	120.0
72"		120.0	120.0	120.0
84"		119.2	120.0	120.0
36"	138"	120.0	120.0	120.0
42"		120.0	120.0	120.0
48"		120.0	120.0	120.0
54"		120.0	120.0	120.0
60"		120.0	120.0	120.0
66"		120.0	120.0	120.0
72"		120.0	120.0	120.0
84"		109.1	120.0	120.0
36"	144"	120.0	120.0	120.0
42"		120.0	120.0	120.0
48"		120.0	120.0	120.0
54"		120.0	120.0	120.0
60"		120.0	120.0	120.0
66"		120.0	120.0	120.0
72"		116.9	120.0	120.0
84"		107.9	120.0	120.0
84"		100.2	117.0	120.0

NOTE:
LOADS SHOWN ARE BASED ON
EQUAL PANELS ON EACH SIDE
OF CORNER

ALL OTHER CONDITIONS TO BE
REVIEWED BY AUTHORITY HAVING
JURISDICTION.



MULLION 'CM1'

M5	ALUM
I _x IN ⁴	18.8266
S _x IN ³	5.7635
I _y IN ⁴	17.8252
S _y IN ³	5.419

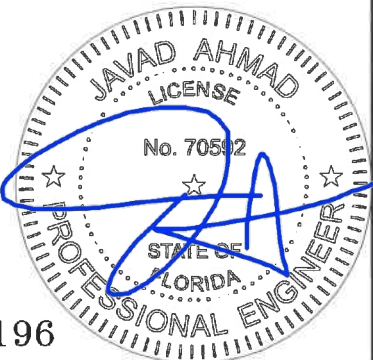
MULLION 'CM2'

M6	ALUM	STEEL
I _x IN ⁴	18.8266	3.1668
S _x IN ³	5.7635	1.4222
I _y IN ⁴	17.8252	3.1668
S _y IN ³	5.419	1.4222

MULLION 'CM3'

M7	ALUM	STEEL
I _x IN ⁴	18.8266	3.8646
S _x IN ³	5.7635	1.7509
I _y IN ⁴	17.8252	3.8646
S _y IN ³	5.419	1.7509

REINF. LENGTH = MULL LENGTH-6"



FL #16196

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revisions:	no	date	by	description

date: 08-24-17

scale: -

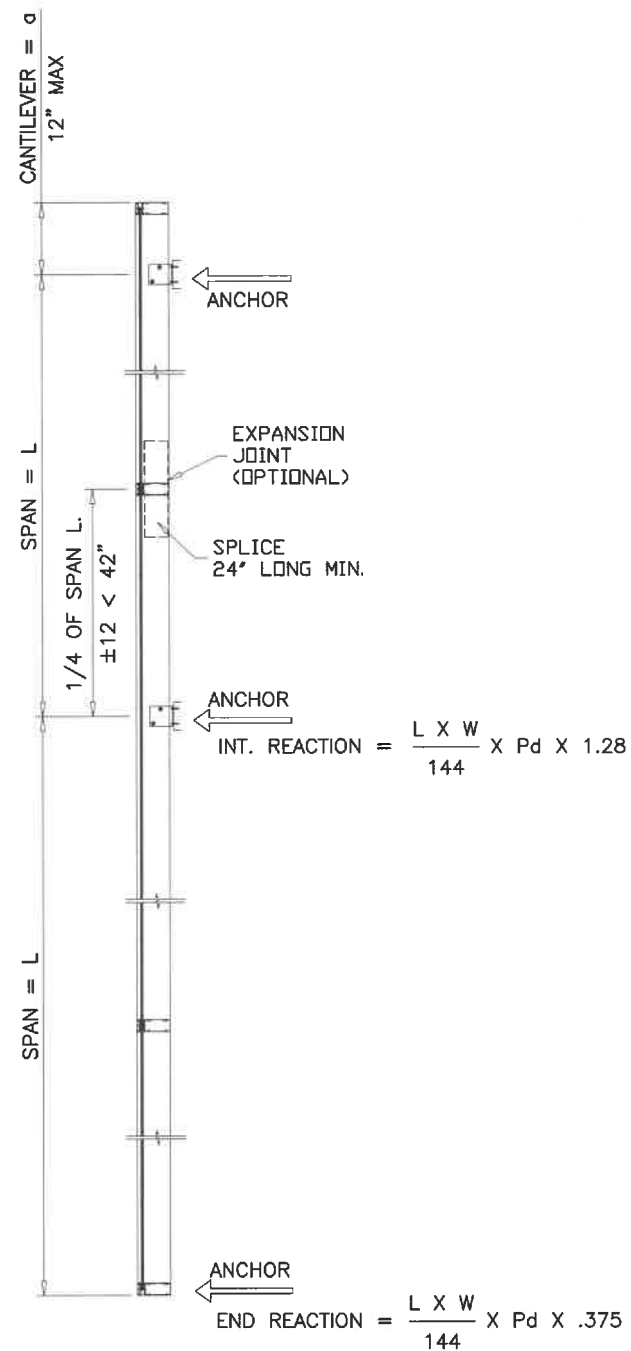
dr. by: TARIQ

chk. by:

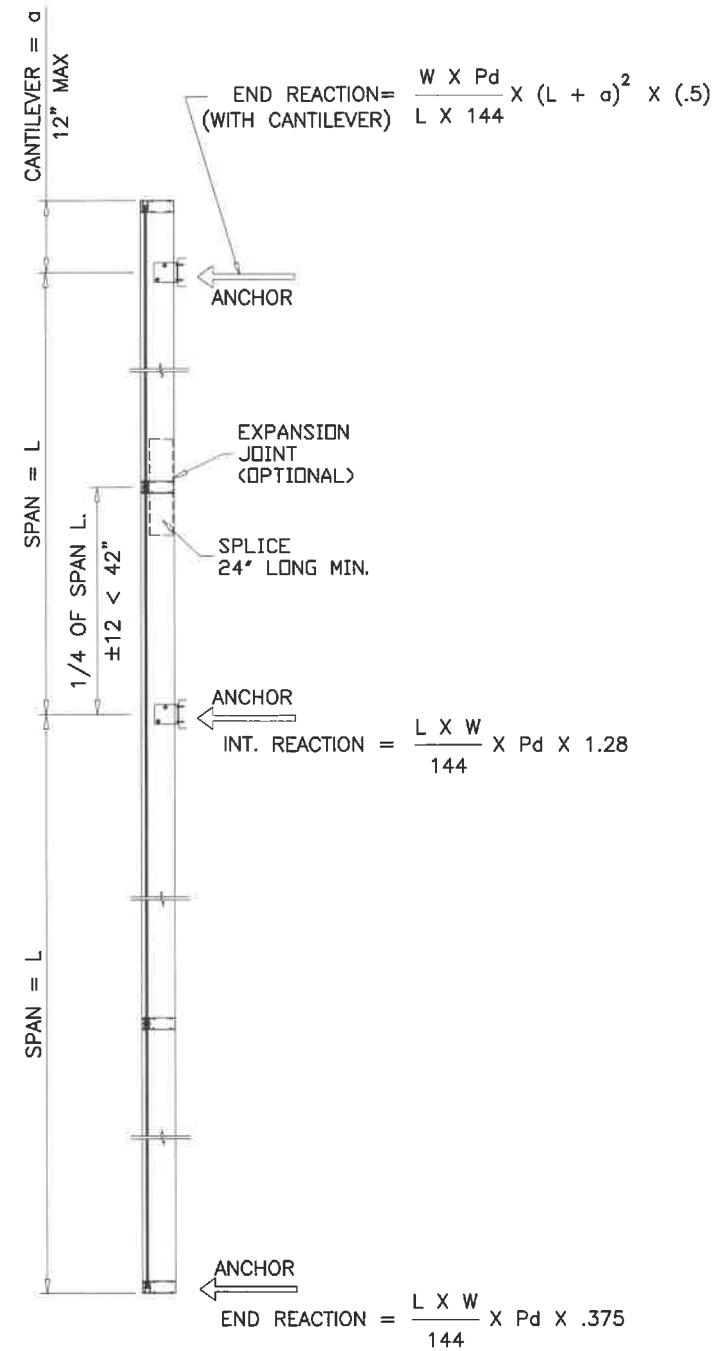
drawing no.

W17-76

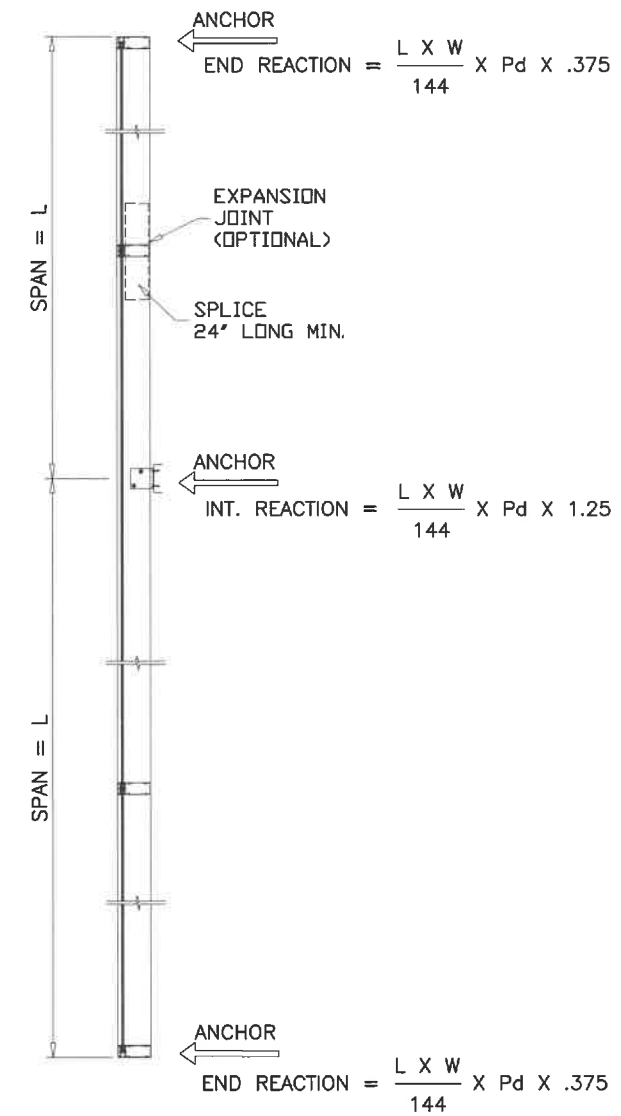
sheet 10 of 24



MULTIPLE SPANS WITH OR WITHOUT CANTILEVER
USE TABLE ON SHEET 10



TWO SPANS WITH CANTILEVER, WITH
AND WITHOUT SPLICE/EXPANSION JOINT
USE TABLE ON SHEET 10



TWO SPANS WITHOUT CANTILEVER, WITH
AND WITHOUT SPLICE/EXPANSION JOINT
USE TABLE ON SHEET 10

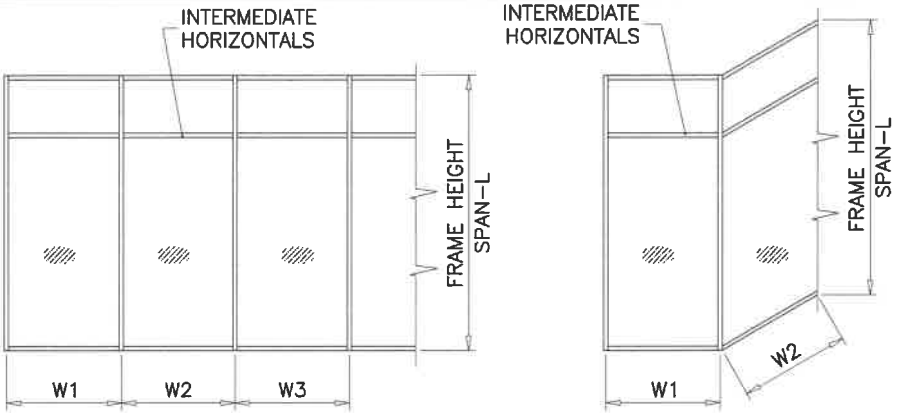


ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)					
NOMINAL DIMS.		ANCHOR TYPES			
WIDTH (W)	FRAME HT. SPAN-L	'A'	'AA'	'B'	'BB'
36"	96"	145.0	145.0	145.0	145.0
42"		145.0	145.0	145.0	145.0
48"		145.0	145.0	145.0	145.0
54"		145.0	145.0	145.0	145.0
60"		145.0	145.0	145.0	145.0
66"		132.0	145.0	145.0	145.0
72"		121.0	145.0	145.0	145.0
78"		111.7	145.0	145.0	145.0
84"		103.7	145.0	145.0	145.0
36"	108"	145.0	145.0	145.0	145.0
42"		145.0	145.0	145.0	145.0
48"		145.0	145.0	145.0	145.0
54"		143.4	145.0	145.0	145.0
60"		129.1	145.0	145.0	145.0
66"		117.3	145.0	145.0	145.0
72"		107.6	145.0	145.0	145.0
78"		99.3	145.0	145.0	145.0
84"		92.2	145.0	137.5	145.0
36"	120"	145.0	145.0	145.0	145.0
42"		145.0	145.0	145.0	145.0
48"		145.0	145.0	145.0	145.0
54"		129.1	145.0	145.0	145.0
60"		116.2	145.0	145.0	145.0
66"		105.6	145.0	145.0	145.0
72"		96.8	145.0	144.4	145.0
78"		89.4	145.0	133.3	145.0
84"		83.0	145.0	123.8	145.0
36"	132"	145.0	145.0	145.0	145.0
42"		145.0	145.0	145.0	145.0
48"		132.0	145.0	145.0	145.0
54"		117.3	145.0	145.0	145.0
60"		105.6	145.0	145.0	145.0
66"		96.0	145.0	143.2	145.0
72"		88.0	145.0	131.3	145.0
78"		81.2	145.0	121.2	145.0
84"		75.4	145.0	112.5	145.0
36"	144"	145.0	145.0	145.0	145.0
42"		138.3	145.0	145.0	145.0
48"		121.0	145.0	145.0	145.0
54"		107.6	145.0	145.0	145.0
60"		96.8	145.0	144.4	145.0
66"		88.0	145.0	131.3	145.0
72"		80.7	145.0	120.3	145.0
78"		74.5	145.0	111.1	145.0
84"		69.1	138.3	103.1	145.0
36"	156"	145.0	145.0	145.0	145.0
42"		127.6	145.0	145.0	145.0
48"		111.7	145.0	145.0	145.0
54"		99.3	145.0	145.0	145.0
60"		89.4	145.0	133.3	145.0
66"		81.2	145.0	121.2	145.0
72"		74.5	145.0	111.1	145.0
78"		68.7	137.5	102.5	145.0
84"		63.8	127.6	95.2	145.0

ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)					
NOMINAL DIMS.		ANCHOR TYPES			
WIDTH (W)	FRAME HT. SPAN-L	'A'	'AA'	'B'	'BB'
36"	168"	138.3	145.0	145.0	145.0
42"		118.5	145.0	145.0	145.0
48"		103.7	145.0	145.0	145.0
54"		92.2	145.0	137.5	145.0
60"		83.0	145.0	123.8	145.0
66"		75.4	145.0	112.5	145.0
72"		69.1	138.3	103.1	145.0
78"		63.8	127.6	95.2	145.0
84"		59.3	118.5	88.4	145.0
36"	180"	129.1	145.0	145.0	145.0
42"		110.6	145.0	145.0	145.0
48"		96.8	145.0	144.4	145.0
54"		86.0	145.0	128.4	145.0
60"		77.4	145.0	115.5	145.0
66"		70.4	140.8	105.0	145.0
72"		64.5	129.1	96.3	145.0
78"		59.6	119.1	88.9	145.0
84"		55.3	110.6	82.5	145.0
36"	192"	121.0	145.0	145.0	145.0
42"		103.7	145.0	145.0	145.0
48"		90.8	145.0	135.4	145.0
54"		80.7	145.0	120.3	145.0
60"		72.6	145.0	108.3	145.0
66"		66.0	132.0	98.5	145.0
72"		60.5	121.0	90.3	145.0
78"		55.8	111.7	83.3	145.0
84"		51.9	103.7	77.4	145.0
36"	204"	113.9	145.0	145.0	145.0
42"		97.6	145.0	145.0	145.0
48"		85.4	145.0	127.4	145.0
54"		75.9	145.0	113.3	145.0
60"		68.3	136.7	101.9	145.0
66"		62.1	124.2	92.7	145.0
72"		56.9	113.9	84.9	145.0
78"		52.6	105.1	78.4	145.0
84"		48.8	97.6	72.8	145.0
36"	216"	107.6	145.0	145.0	145.0
42"		92.2	145.0	137.5	145.0
48"		80.7	145.0	120.3	145.0
54"		71.7	143.4	107.0	145.0
60"		64.5	129.1	96.3	145.0
66"		58.7	117.3	87.5	145.0
72"		53.8	107.6	80.2	145.0
78"		49.6	99.3	74.1	145.0
84"		46.1	92.2	68.8	137.5

ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)					
NOMINAL DIMS.		ANCHOR TYPES			
WIDTH (W)	FRAME HT. SPAN-L	'A'	'AA'	'B'	'BB'
36"	228"	101.9	145.0	145.0	145.0
42"		87.3	145.0	130.3	145.0
48"		76.4	145.0	114.0	145.0
54"		67.9	135.9	101.3	145.0
60"		61.1	122.3	91.2	145.0
66"		55.6	111.2	82.9	145.0
72"		50.9	101.9	76.0	145.0
78"		47.0	94.1	70.2	140.3
84"		43.7	87.3	65.1	130.3
36"	240"	96.8	145.0	144.4	145.0
42"		83.0	145.0	123.8	145.0
48"		72.6	145.0	108.3	145.0
54"		64.5	129.1	96.3	145.0
60"		58.1	116.2	86.6	145.0
66"		52.8	105.6	78.8	145.0
72"		48.4	96.8	72.2	144.4
78"		44.7	89.4	66.6	133.3
84"		41.5	83.0	61.9	123.8

HEAD AND SILL ANCHOR LOAD CAPACITY CHARTS ARE APPLICABLE TO SINGLE AND MULTIPLE SPAN CONDITIONS.



WIDTH (W) = W1

AT FRAME JAMB

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

AT FRAME MULLION

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

AT FRAME MULLION

HEAD & SILL ANCHOR LOADS

ANCHOR 'A' (1 PER LEG)
ANCHOR 'AA' (2 PER LEG)
 DIRECTLY INTO CONCRETE (f'c = 3000 PSI MIN.)
 1/2" DIA. WEDGE-BOLT ANCHOR BY 'POWERS'
 WITH 4" MIN. EMBED INTO CONCRETE.
 4" MIN. EDGE DIST.
 5" MIN. CL TO CL SPACING

ANCHOR 'B' (1 PER LEG)
ANCHOR 'BB' (2 PER LEG)
 INTO METAL STRUCTURES (STEEL 1/8" MIN. THICKNESS)
 1/2" DIA. MACHINE BOLT GRADE 5 W/ WASHER & NUT
 1" MIN. EDGE DIST.

SEE SHEET 12.1 FOR DETAILS

FL #16196

Sealed 7/24/19

afC

AL-FAROOQ CORPORATION

ENGINEERS & PRODUCT DEVELOPMENT

9360 SUNSET DRIVE, SUITE 220

MIAMI, FLORIDA 33173

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Glass Tech Engineering, Inc.

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Fax. (305) 599-2730

revisions:

no date by description

date: 08-24-17

scale: -

dr. by: TARIQ

chk. by:

drawing no.

W17-76

sheet 12 of 24

DETAIL '1'

AT JAMB

DETAIL '2'
AT MULLION

DETAIL '3'
AT 90° CORNER MULLION

DETAIL '3'
AT 90° CORNER MULLION

DETAIL '1'

AT JAMB

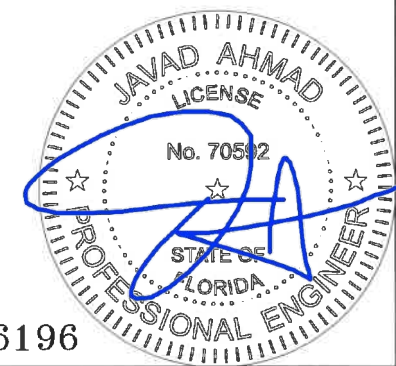
DETAIL '2'
AT MULLION

CONCRETE

DETAIL '1'

AT JAMB

DETAIL '2'
AT MULLION



FL #16196

Sealed 7/24/19

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revisions:	no	date	by	description
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date: 08-24-17

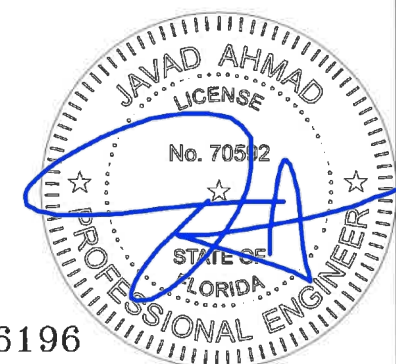
scale: —

dr. by: TARIO

chk. by:

drawing no.
W17-76

sheet 12.1 of 24



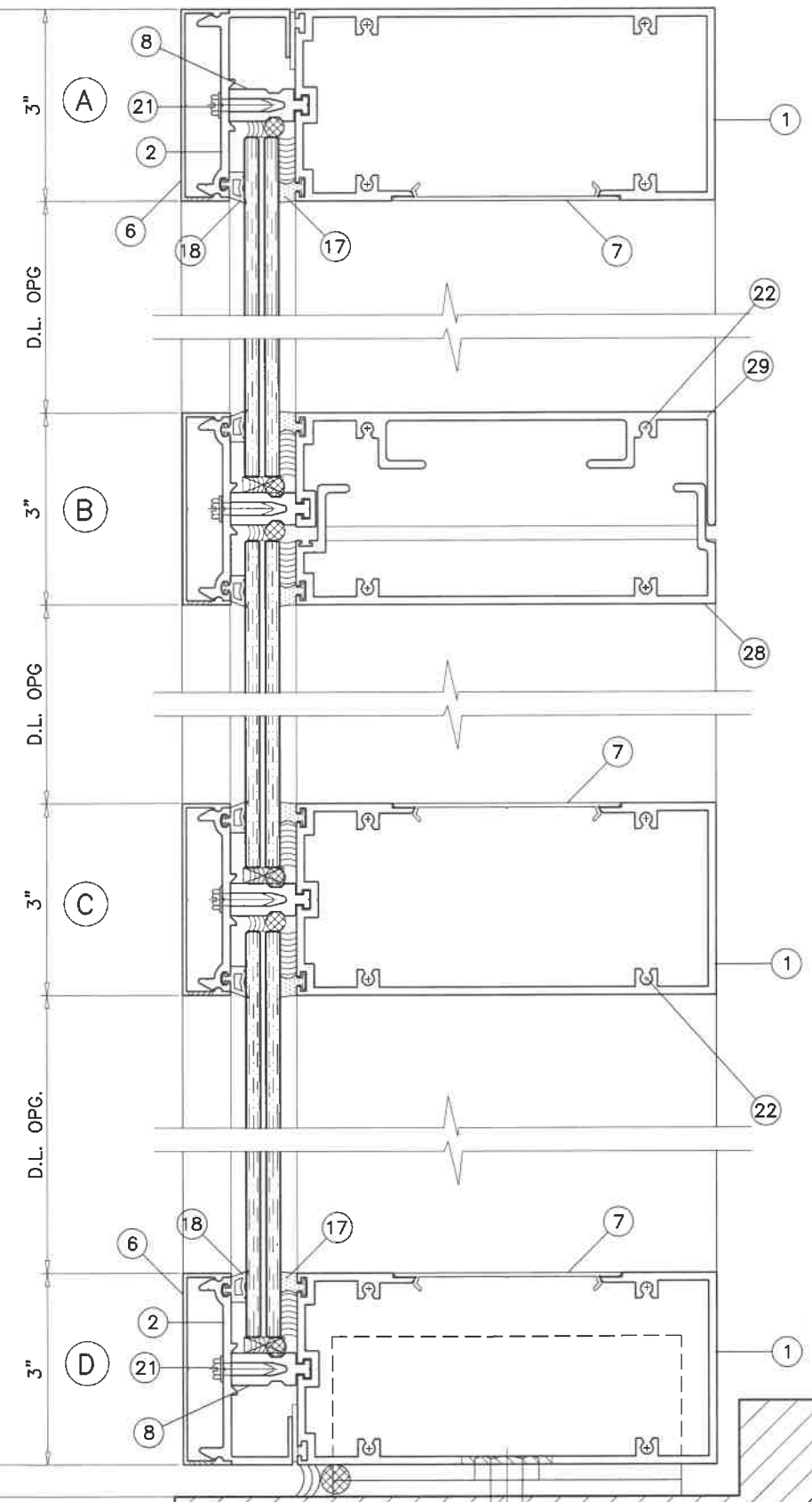
Sealed 7/24/19

drawing no.
W17-76
sheet 12.2 of 24

1/2" MAX.

FRAME HEIGHT

EXTERIOR



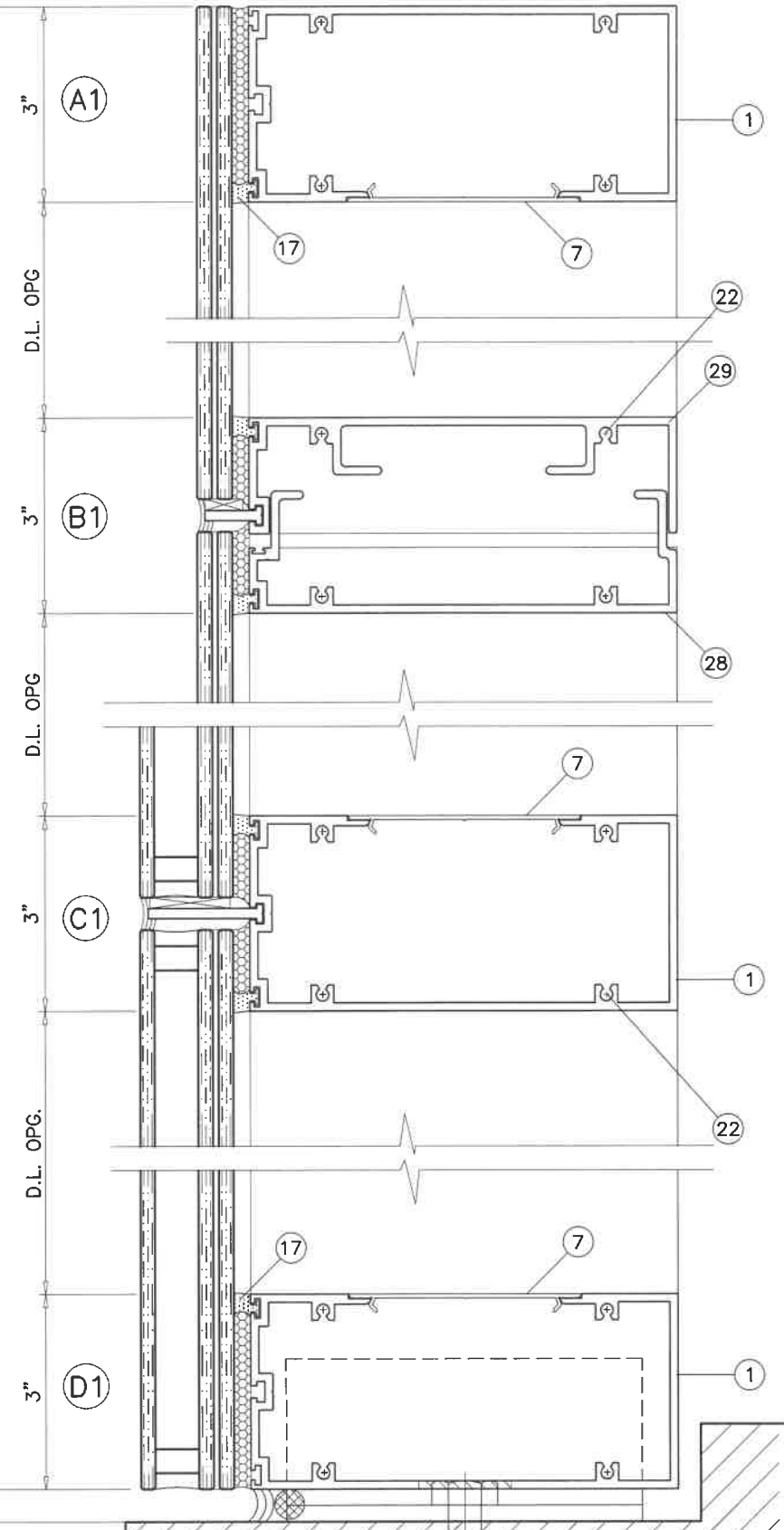
CONCRETE OR METAL STRUCTURE

ANCHORS TYPE 'A' OR 'B' SEE SHEET 12 FOR CAPACITY

1/2" MAX.

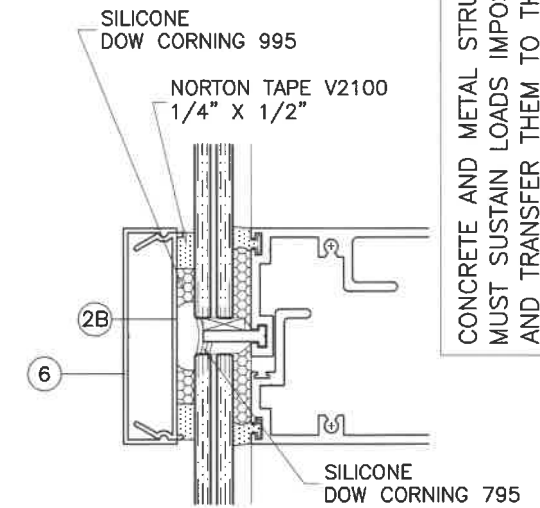
FRAME HEIGHT

EXTERIOR

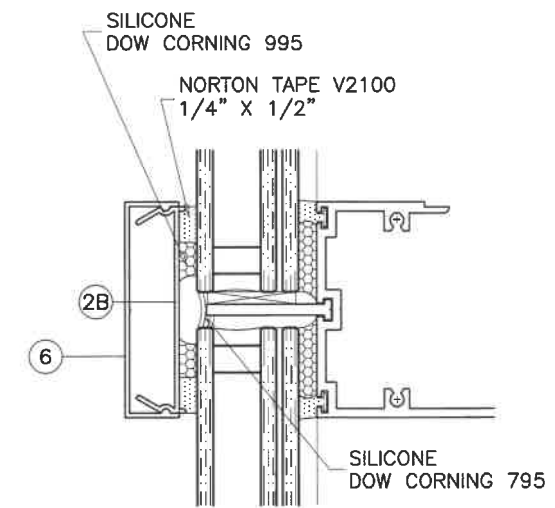


CONCRETE OR METAL STRUCTURE

ANCHORS TYPE 'A' OR 'B' SEE SHEET 12 FOR CAPACITY

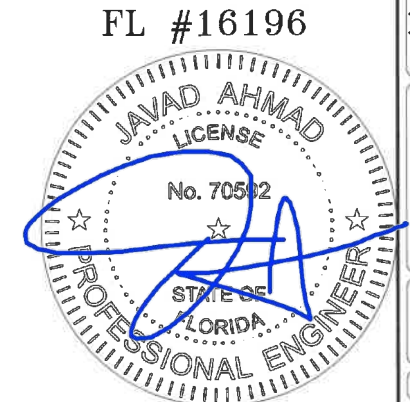


DECORATIVE CAP OPTION AT LAM. GLASS



DECORATIVE CAP OPTION AT INSUL. LAM. GLASS

CONCRETE AND METAL STRUCTURE NOT BY GLASSTECH MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.



FL #16196

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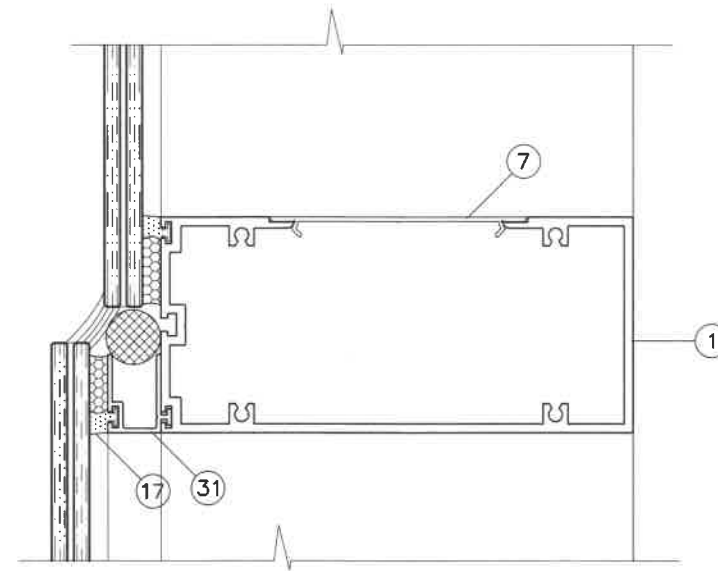
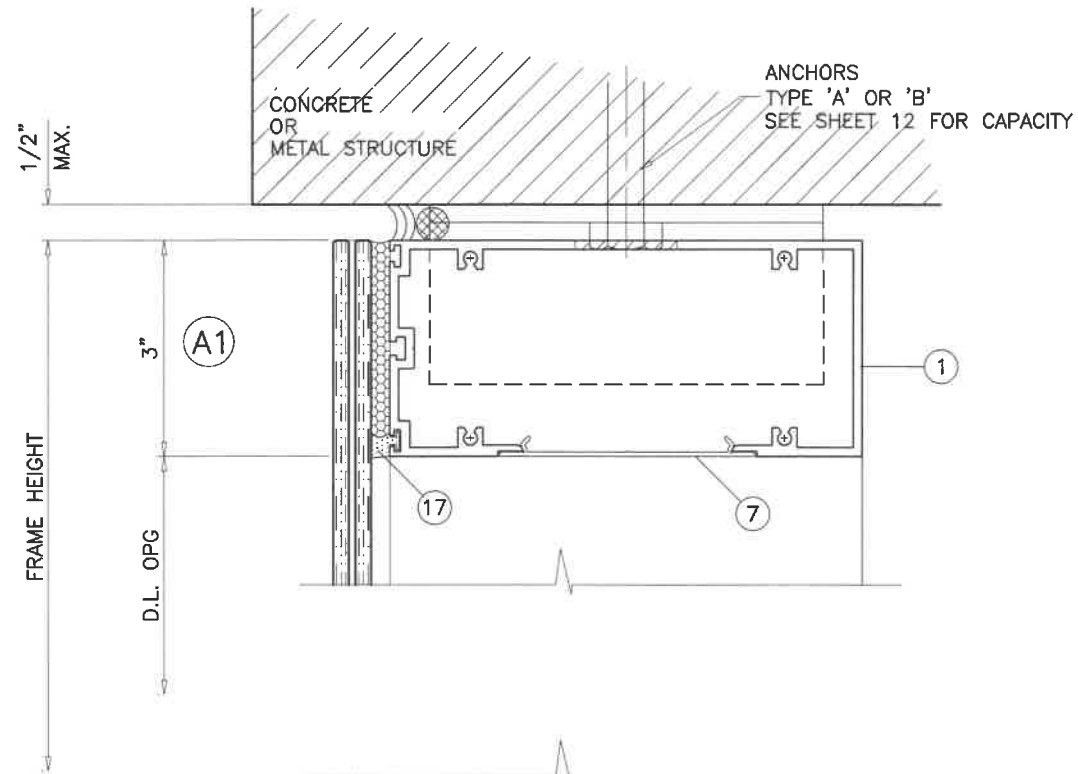
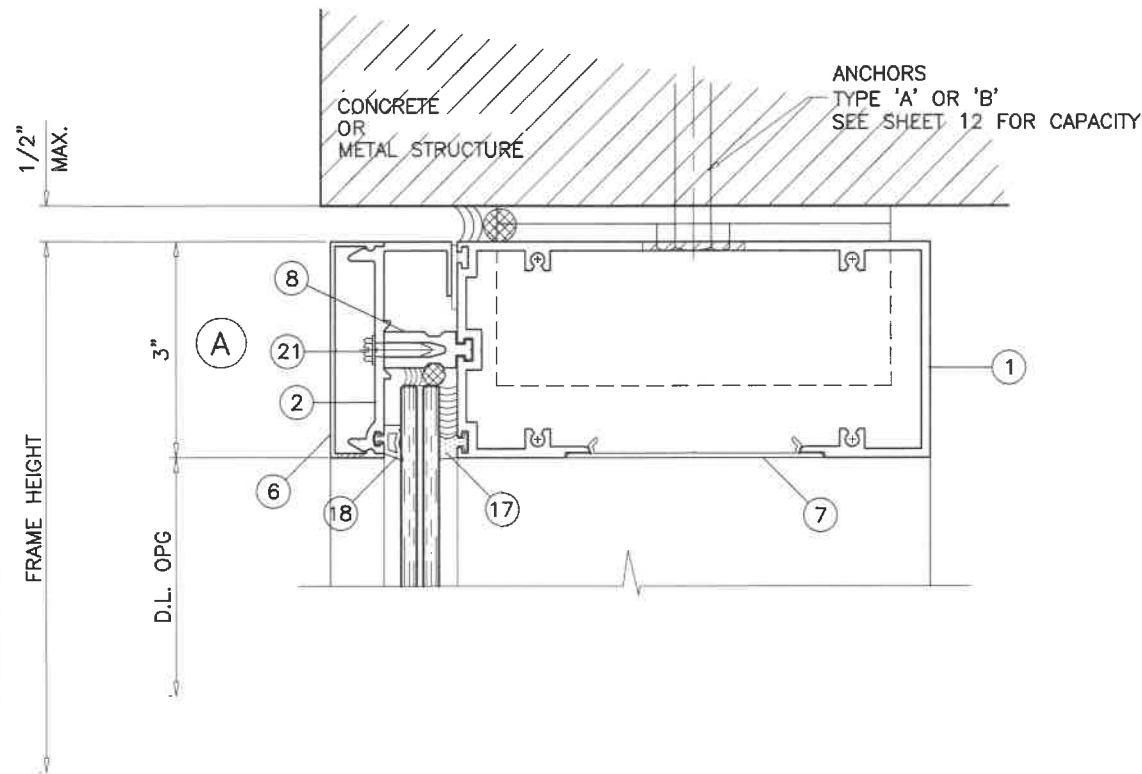
SERIES-2047 ALUM CURTAIN WALL SYSTEM (L.M.I.)

Glass Tech Engineering, Inc.
8321 N.W. 70th Street
Miami, FL. 33166
Tel. (305) 594-4321 Fax. (305) 599-2730

revisions:
no date by description

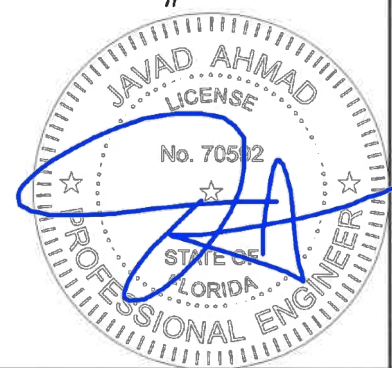
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dr. by: TARIQ
chk. by:

drawing no.
W17-76
sheet 13 of 24



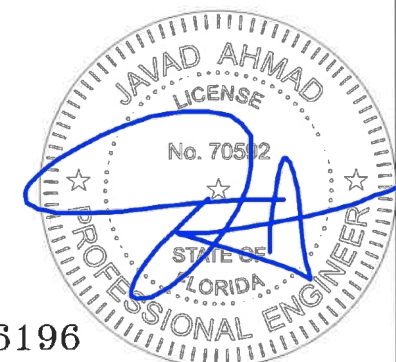
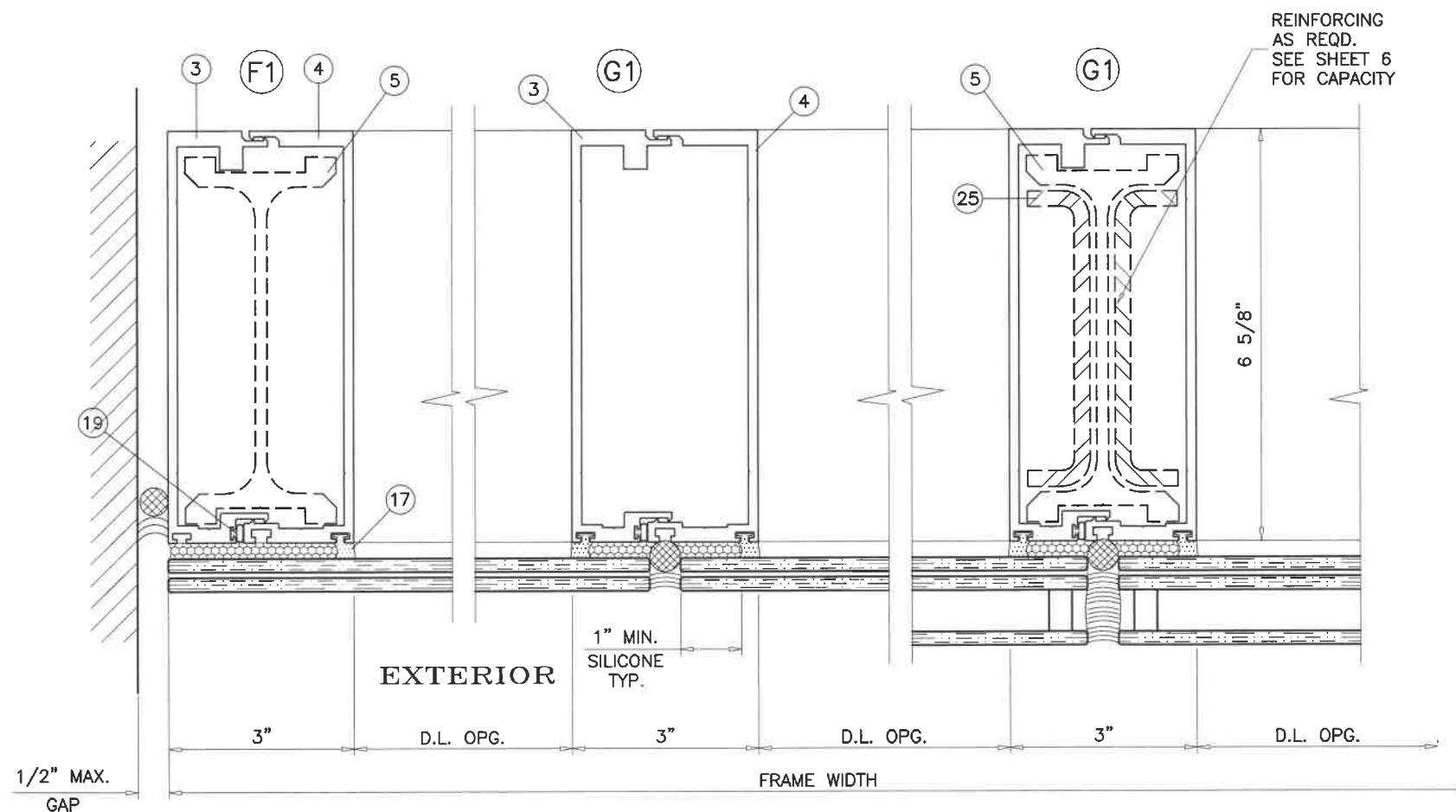
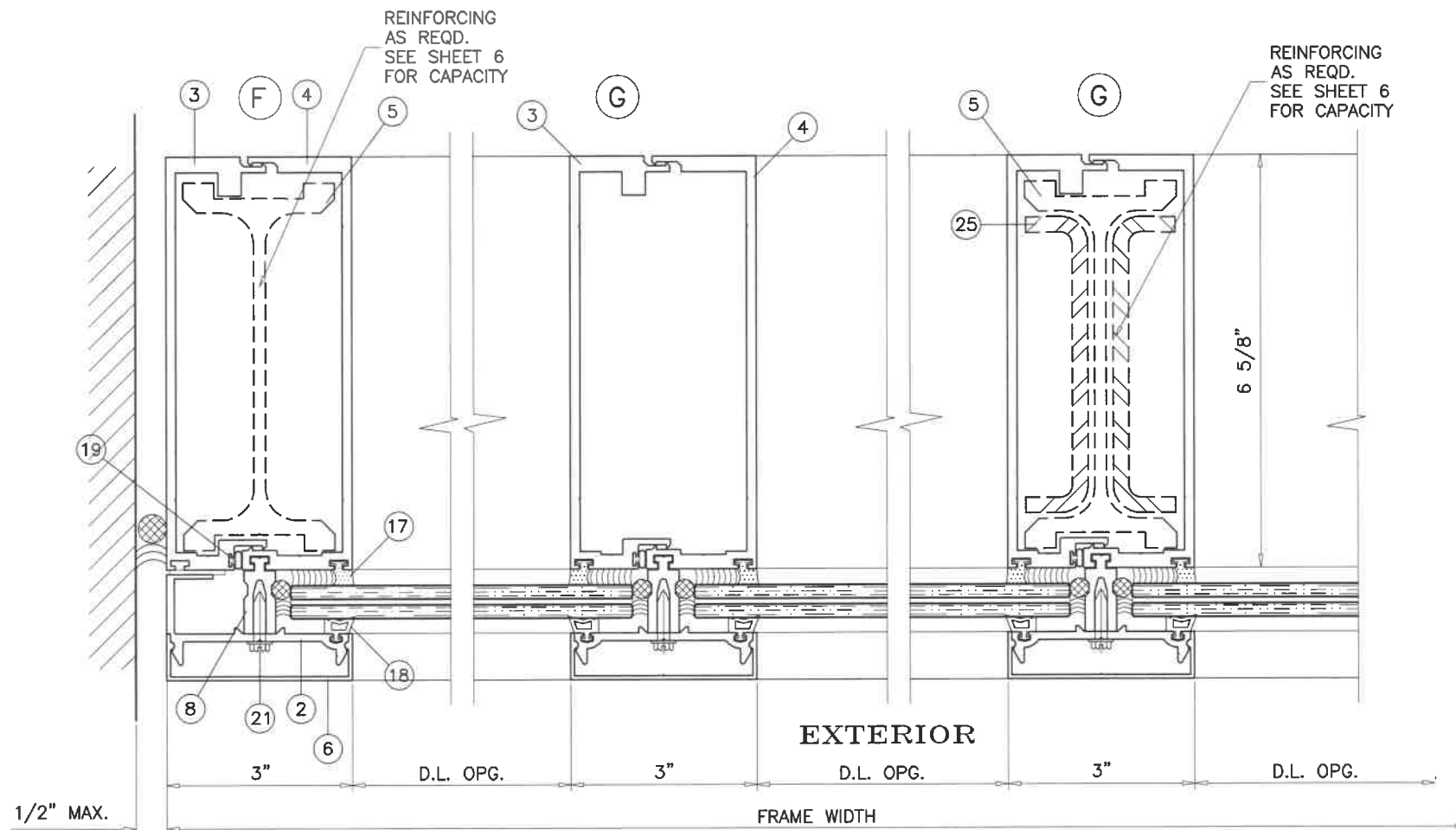
SPANDREL INFILL DETAIL

CONCRETE AND METAL STRUCTURE NOT BY GLASSTECH MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.



FL #16196

AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL. (305) 264-8100 FAX. (305) 262-6978 COMP-ANL\W17-76GTE	
SERIES-2047 ALUM CURTAIN WALL SYSTEM (L.M.I.) Glass Tech Engineering, Inc. 8321 N.W. 70th Street Miami, FL. 33166 Tel. (305) 594-4321 Fax. (305) 599-2730	
revisions: no. date by description	date: 08-24-17 scale: 3/8" = 1" dr. by: TARIQ chk. by:
drawing no. W17-76	
sheet 13.1 of 24	



FL #16196

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revisions:
no date by description

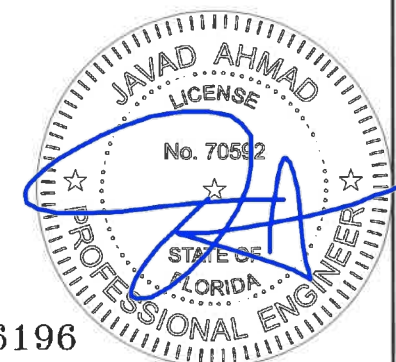
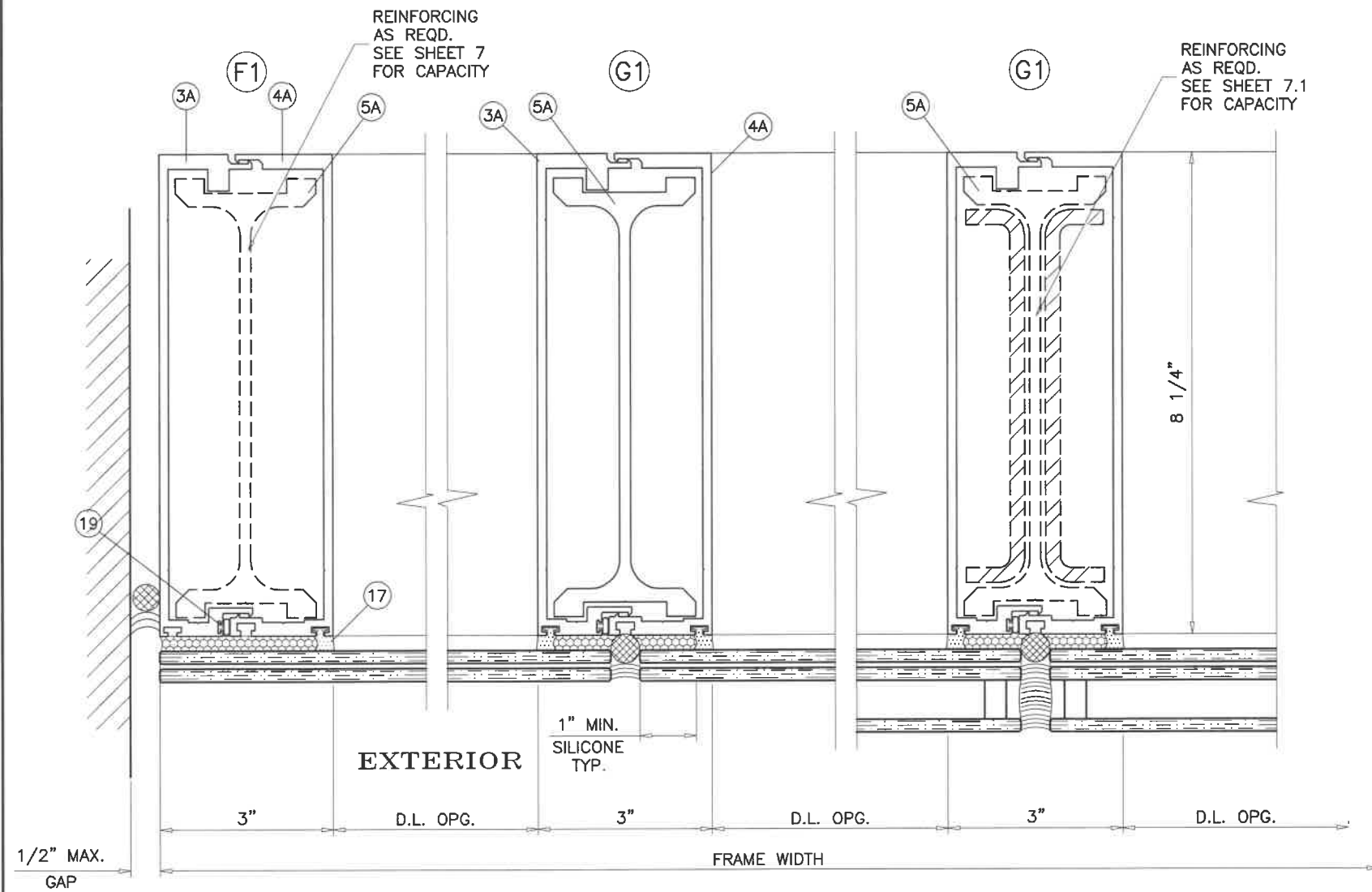
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scale: 3/8" = 1"

dr. by: TARIQ

chk. by:

drawing no.
W17-76

sheet 14 of 24



FL #16196

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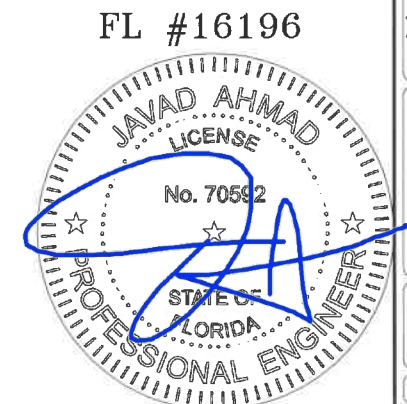
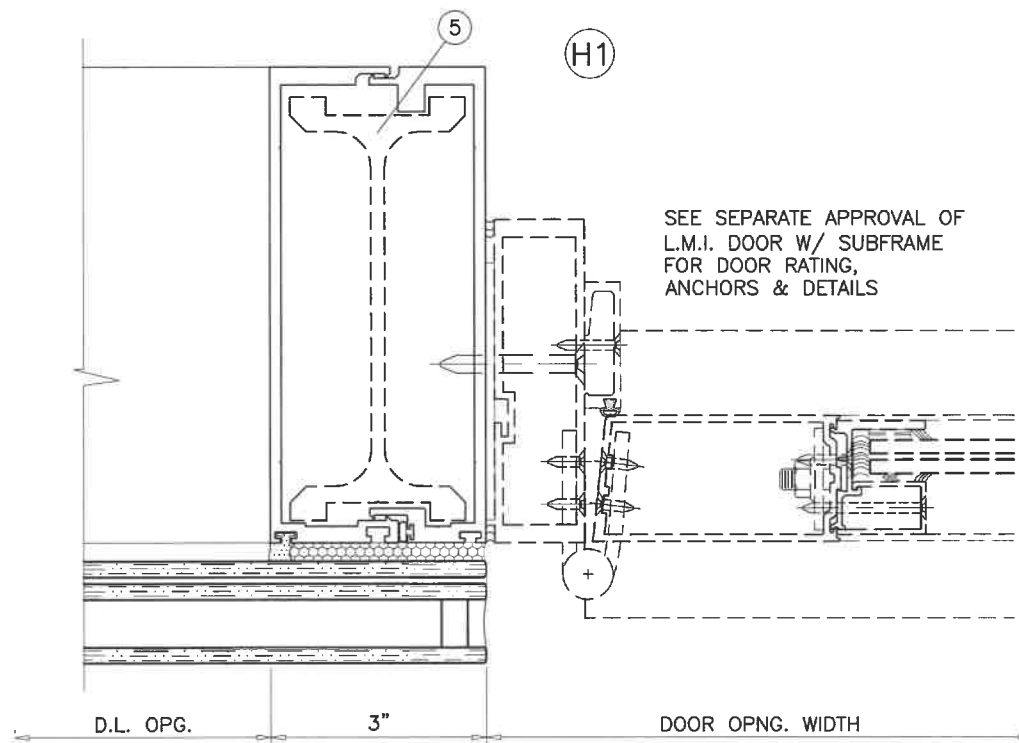
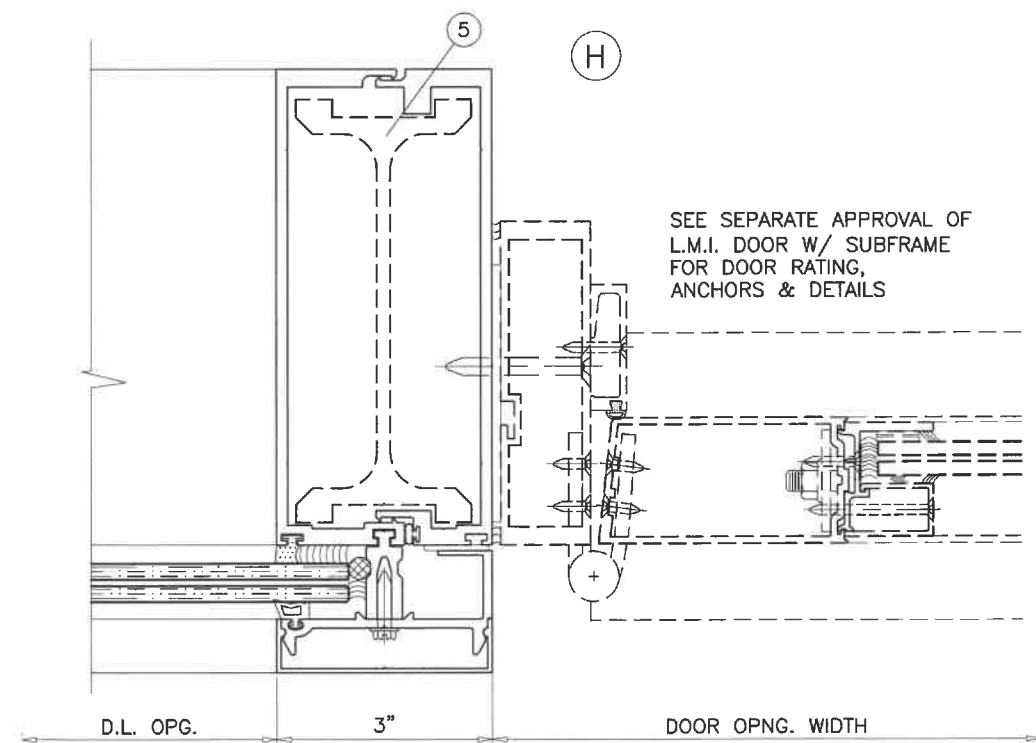
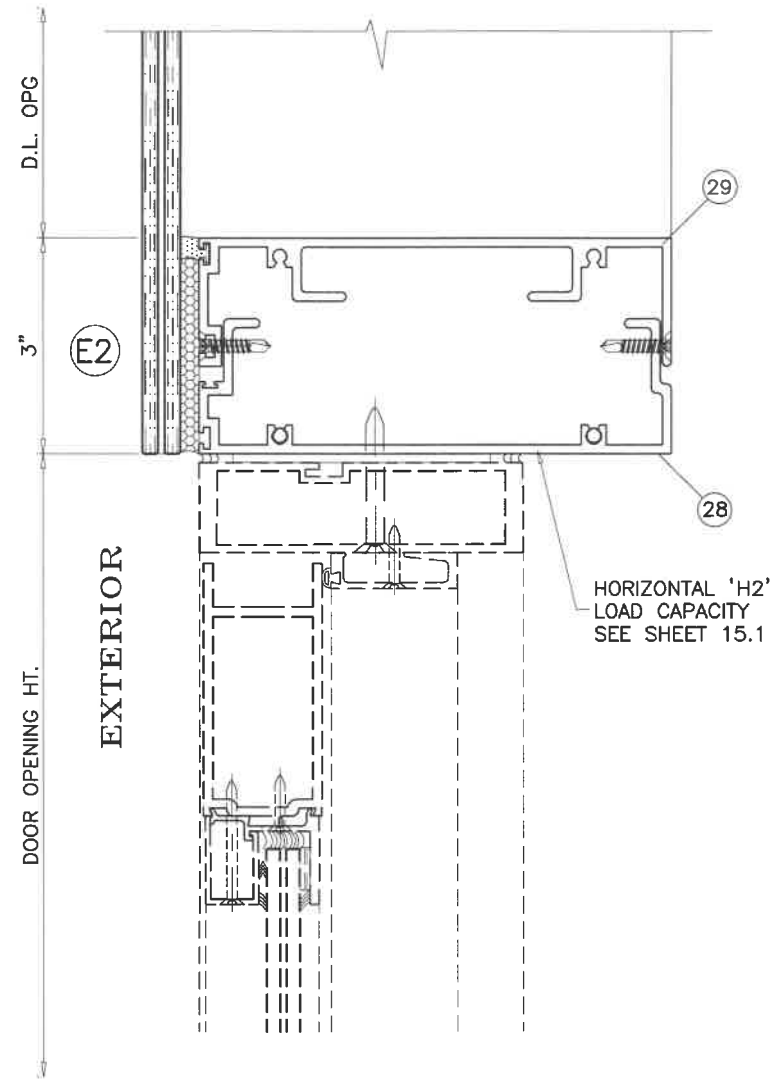
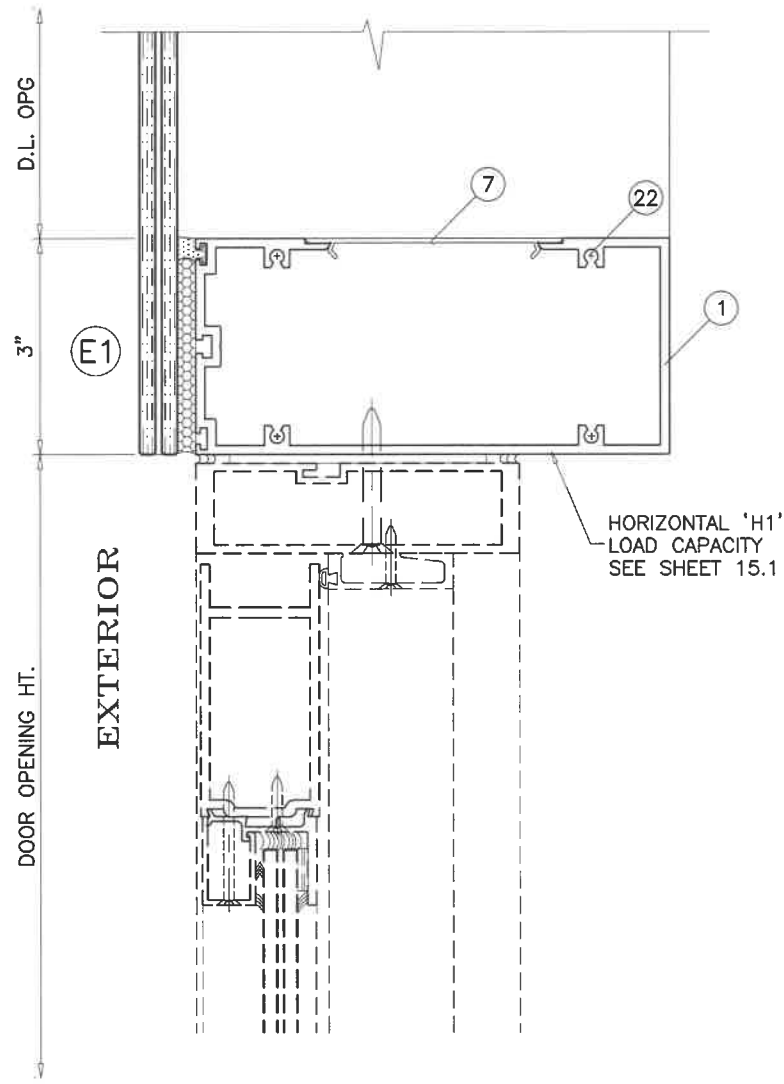
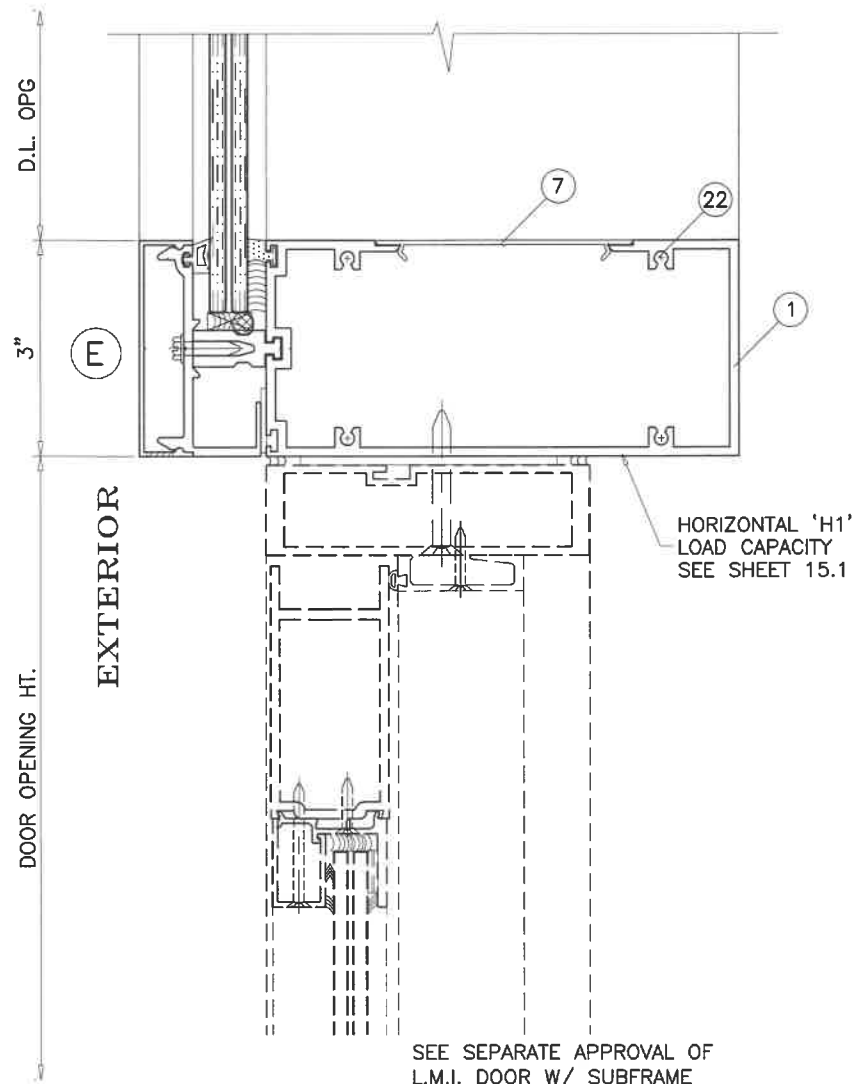
revisions:

no	date	by	description

date: 08-24-17
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no.
W17-76

sheet 14.1 of 24



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revisions:		no		date		by		description	
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dr. by: TARIQ
chk. by:

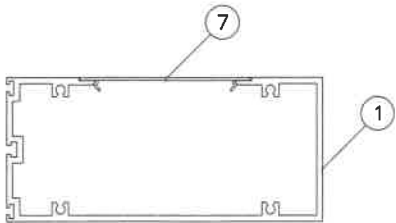
drawing no. **W17-76**
sheet 15 of 24

HORIZONTAL LOAD CAPACITY – PSF				
NOMINAL DIMS.				HORIZ. 'H1'
WIDTH (W)	LENGTH (B)	LENGTH (A)	SPAN LENGTH (L)	EXT.(+) INT.(–)
74–5/8"	36"	84"	120"	100.0
86–5/8"				100.0
96"				100.0
74–5/8"	48"		132"	100.0
86–5/8"				100.0
96"				100.0
74–5/8"	60"		144"	100.0
86–5/8"				100.0
96"				94.0
74–5/8"	72"		156"	100.0
86–5/8"				100.0
96"				85.2
74–5/8"	84"		168"	100.0
86–5/8"				98.5
96"				77.6
74–5/8"	96"		180"	100.0
86–5/8"				90.6
96"				71.1
74–5/8"	108"		192"	100.0
86–5/8"				83.7
96"				65.4
74–5/8"	120"		204"	100.0
86–5/8"				77.7
96"				60.3
74–5/8"	132"		216"	100.0
86–5/8"				72.3
96"				55.9
74–5/8"	144"		228"	96.8
86–5/8"				67.5
74–5/8"	156"		240"	91.1

HORIZONTAL LOAD CAPACITY – PSF				
NOMINAL DIMS.				HORIZ. 'H1'
WIDTH (W)	LENGTH (B)	LENGTH (A)	SPAN LENGTH (L)	EXT.(+) INT.(–)
74–5/8"	24"	96"	120"	100.0
86–5/8"				100.0
96"				100.0
74–5/8"	36"		132"	100.0
86–5/8"				100.0
96"				100.0
74–5/8"	48"		144"	100.0
86–5/8"				100.0
96"				95.7
74–5/8"	60"		156"	100.0
86–5/8"				100.0
96"				86.7
74–5/8"	72"		168"	100.0
86–5/8"				99.8
96"				79.1
74–5/8"	84"		180"	100.0
86–5/8"				91.9
96"				72.5
74–5/8"	96"		192"	100.0
86–5/8"				84.9
96"				66.7
74–5/8"	108"		204"	100.0
86–5/8"				78.8
96"				61.5
74–5/8"	120"		216"	100.0
86–5/8"				73.4
96"				57.0
74–5/8"	132"		228"	97.7
86–5/8"				68.5
74–5/8"	144"		240"	91.9

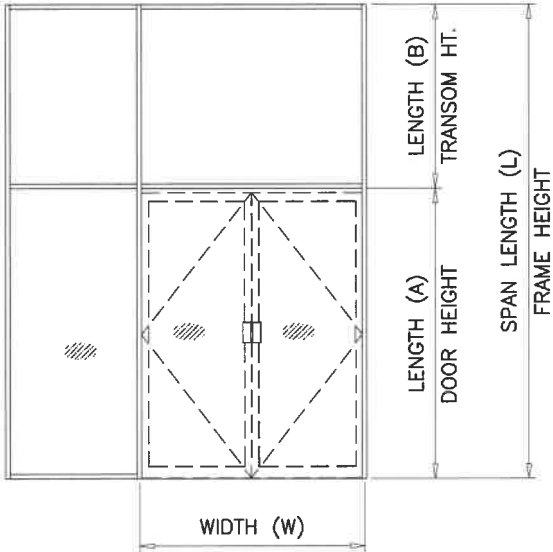
HORIZONTAL LOAD CAPACITY – PSF				
NOMINAL DIMS.				HORIZ. 'H1'
WIDTH (W)	LENGTH (B)	LENGTH (A)	SPAN LENGTH (L)	EXT.(+) INT.(-)
74–5/8"	12"	108"	120"	100.0
86–5/8"				100.0
96"				100.0
74–5/8"	24"		132"	100.0
86–5/8"				100.0
96"				100.0
74–5/8"	36"		144"	100.0
86–5/8"				100.0
96"				97.3
74–5/8"	48"		156"	100.0
86–5/8"				100.0
96"				88.3
74–5/8"	60"		168"	100.0
86–5/8"				100.0
96"				80.5
74–5/8"	72"		180"	100.0
86–5/8"				93.2
96"				73.8
74–5/8"	84"		192"	100.0
86–5/8"				86.2
96"				67.9
74–5/8"	96"		204"	100.0
86–5/8"				80.0
96"				62.7
74–5/8"	108"		216"	100.0
86–5/8"				74.4
96"				58.1
74–5/8"	120"		228"	98.6
86–5/8"				69.5
74–5/8"	132"		240"	92.8

HORIZONTAL LOAD CAPACITY – PSF				
NOMINAL DIMS.				HORIZ. 'H1'
WIDTH (W)	LENGTH (B)	LENGTH (A)	SPAN LENGTH (L)	EXT.(+) INT.(–)
74–5/8"	12"	120"	132"	100.0
86–5/8"				100.0
96"				100.0
74–5/8"	24"		144"	100.0
86–5/8"				100.0
96"				99.0
74–5/8"	36"		156"	100.0
86–5/8"				100.0
96"				89.9
74–5/8"	48"		168"	100.0
86–5/8"				100.0
96"				82.0
74–5/8"	60"		180"	100.0
86–5/8"				94.5
96"				75.2
74–5/8"	72"		192"	100.0
86–5/8"				87.4
96"				69.2
74–5/8"	84"		204"	100.0
86–5/8"				81.1
96"				63.9
74–5/8"	96"		216"	100.0
86–5/8"				75.5
96"				59.3
74–5/8"	108"		228"	99.5
86–5/8"				70.5
74–5/8"	120"		240"	93.7



HORIZONTAL 'H1'

H1	ALUM
Ix IN^4	15.15
Sx IN^3	4.433

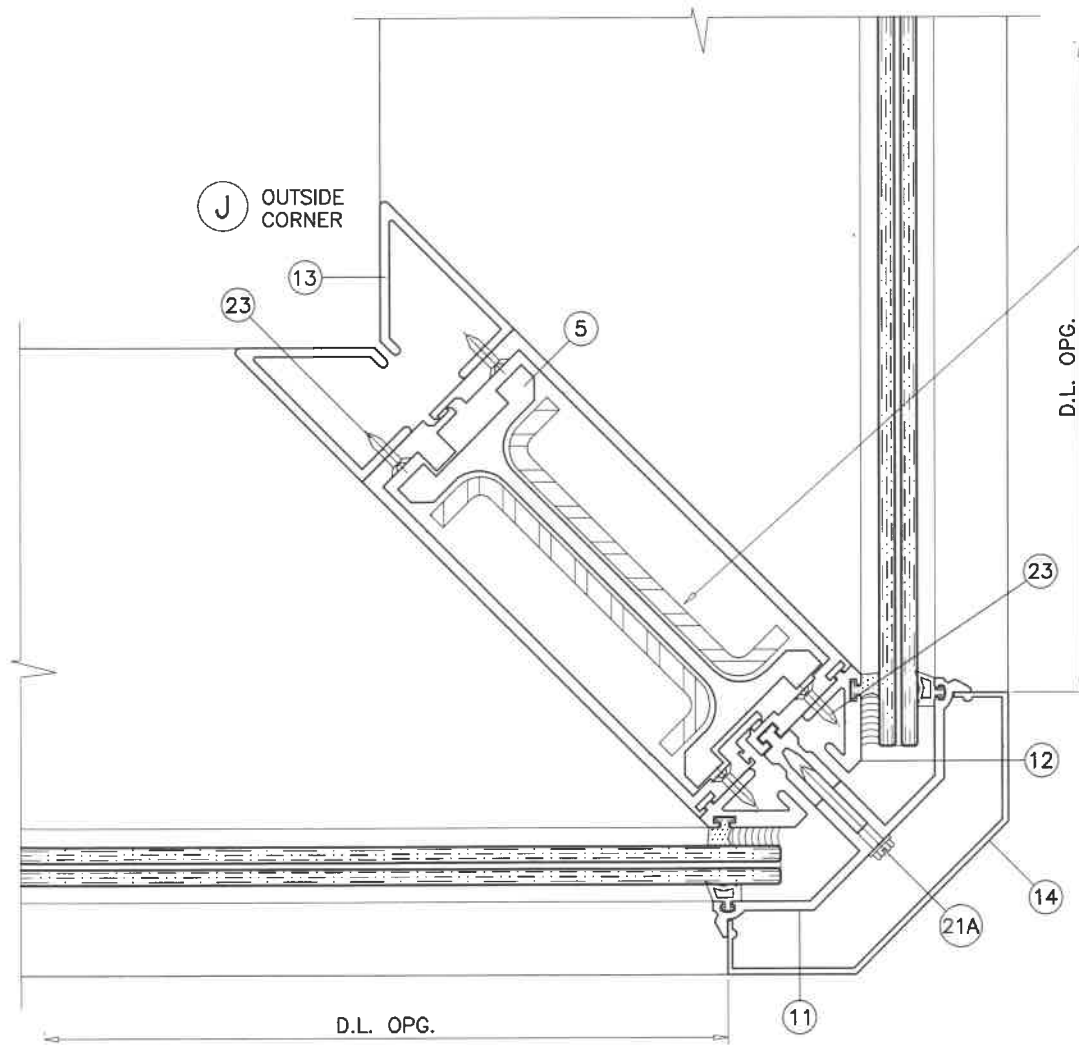


HORIZONTAL LOAD CAPACITY – PSF				
NOMINAL DIMS.				HORIZ. 'H2'
WIDTH (W)	LENGTH (B)	LENGTH (A)	SPAN LENGTH (L)	EXT.(+) INT.(–)
74–5/8"	36"	84"	120"	100.0
86–5/8"				100.0
96"				100.0
74–5/8"	48"		132"	100.0
86–5/8"				100.0
96"				100.0
74–5/8"	60"		144"	100.0
86–5/8"				100.0
74–5/8"	72"		156"	100.0
74–5/8"				100.0
74–5/8"				100.0
74–5/8"	84"		168"	100.0
74–5/8"		100.0		
74–5/8"		100.0		
74–5/8"	96"	180"	100.0	
74–5/8"			100.0	
74–5/8"			100.0	
74–5/8"	108"	192"	100.0	
74–5/8"			100.0	

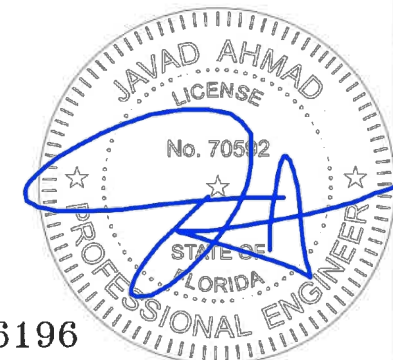
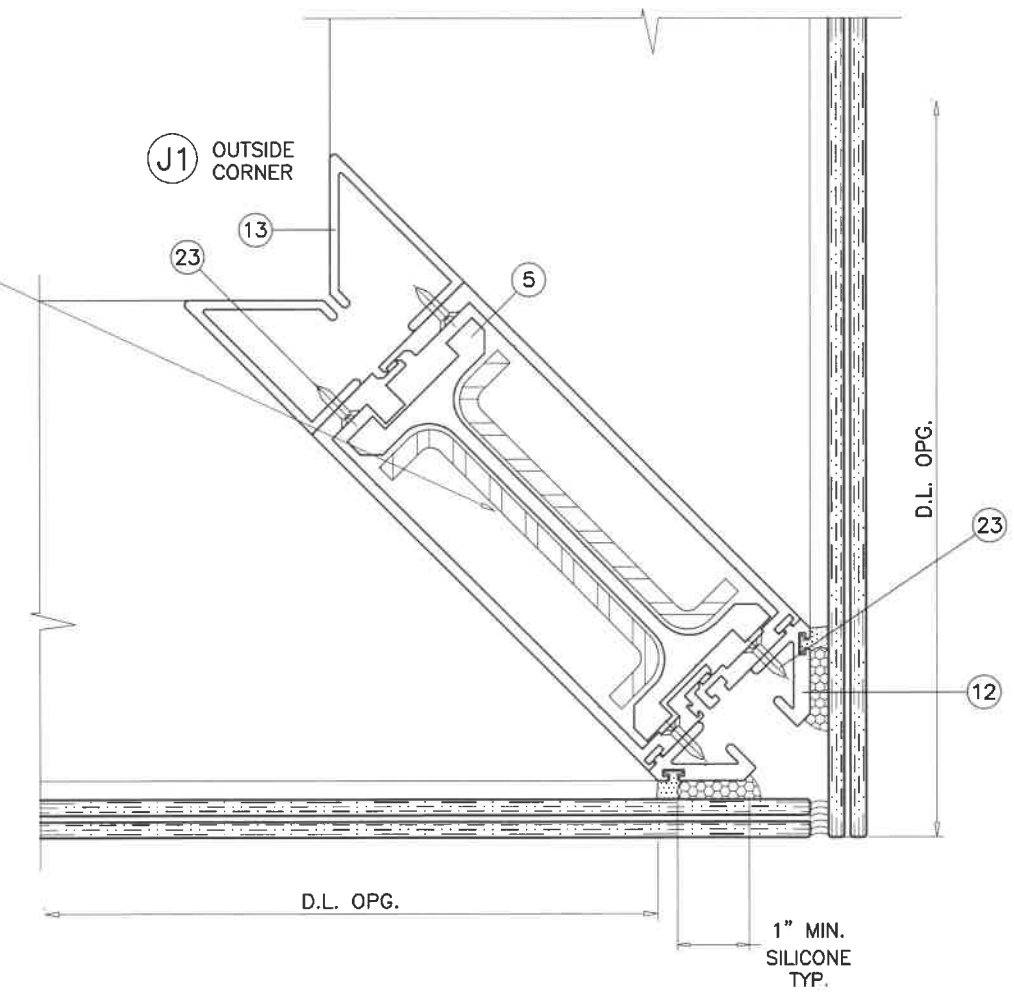
HORIZONTAL LOAD CAPACITY – PSF				
NOMINAL DIMS.				HORIZ. 'H2'
WIDTH (W)	LENGTH (B)	LENGTH (A)	SPAN LENGTH (L)	EXT.(+) INT.(–)
74–5/8"	24"	96"	120"	100.0
86–5/8"				100.0
96"				100.0
74–5/8"	36"		132"	100.0
86–5/8"				100.0
96"				100.0
74–5/8"	48"		144"	100.0
86–5/8"				100.0
96"				97.0
74–5/8"	60"		156"	100.0
86–5/8"				100.0
96"				100.0
74–5/8"	72"		168"	100.0
74–5/8"				100.0
74–5/8"				100.0
74–5/8"	84"		180"	100.0
74–5/8"				100.0
74–5/8"				100.0
74–5/8"	96"		192"	100.0
74–5/8"				100.0
74–5/8"				100.0
74–5/8"	108"		204"	100.0
74–5/8"				100.0
74–5/8"				100.0

HORIZONTAL LOAD CAPACITY – PSF				
NOMINAL DIMS.				HORIZ. 'H2'
WIDTH (W)	LENGTH (B)	LENGTH (A)	SPAN LENGTH (L)	EXT.(+) INT.(–)
74–5/8"	12"	108"	120"	100.0
86–5/8"				100.0
96"				100.0
74–5/8"	24"		132"	100.0
86–5/8"				100.0
96"				100.0
74–5/8"	36"		144"	100.0
86–5/8"				100.0
96"				100.0
74–5/8"	48"		156"	100.0
86–5/8"				100.0
96"				89.6
74–5/8"	60"		168"	100.0
86–5/8"				100.0
96"				100.0
74–5/8"	72"		180"	100.0
86–5/8"				100.0
96"				100.0
74–5/8"	84"		192"	100.0
86–5/8"				100.0
96"				100.0
74–5/8"	96"		204"	100.0
86–5/8"				100.0
96"				100.0
74–5/8"	108"		216"	100.0
86–5/8"				100.0
96"				100.0

HORIZONTAL LOAD CAPACITY – PSF				
NOMINAL DIMS.				HORIZ. 'H2'
WIDTH (W)	LENGTH (B)	LENGTH (A)	SPAN LENGTH (L)	EXT.(+) INT.(–)
74–5/8"	12"	120"	132"	100.0
86–5/8"				100.0
96"				100.0
74–5/8"	24"		144"	100.0
86–5/8"				100.0
96"				100.0
74–5/8"	36"		156"	100.0
86–5/8"				100.0
96"				95.7
74–5/8"	48"		168"	100.0
86–5/8"				100.0
96"				83.2
74–5/8"	60"	180"	100.0	
86–5/8"			95.4	
74–5/8"	72"	192"	100.0	
74–5/8"	84"	204"	100.0	
74–5/8"	96"	216"	100.0	
74–5/8"	108"	228"	95.1	



90° CORNER MULLION CAPACITY
WITH OR WITHOUT STEEL REINFORCING
SEE CHART ON SHEET 10



FL #16196

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
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SERIES-2047 ALUM CURTAIN WALL SYSTEM (L.M.I.)

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Miami, FL. 33166
Tel. (305) 594-4321 Fax. (305) 599-2730

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revisions:		date:		by:		description:	
no	date	no	date	no	date	no	date

date: 08-24-17
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no.
W17-76
sheet 16 of 24



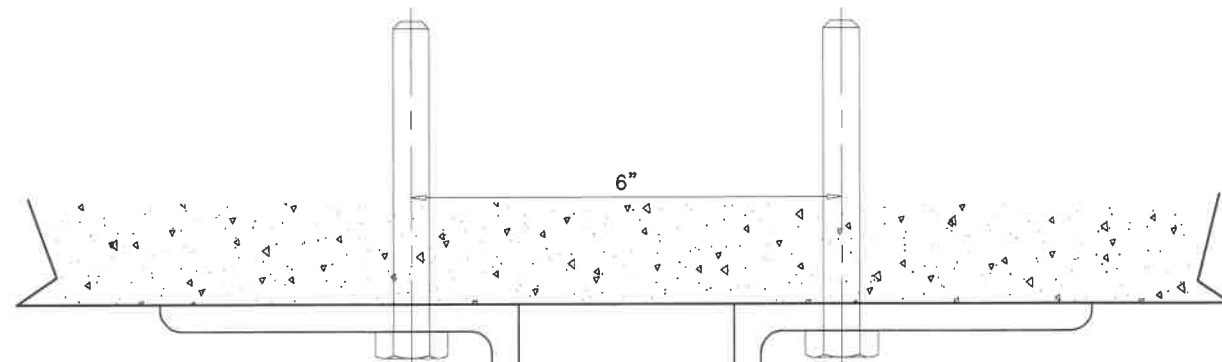
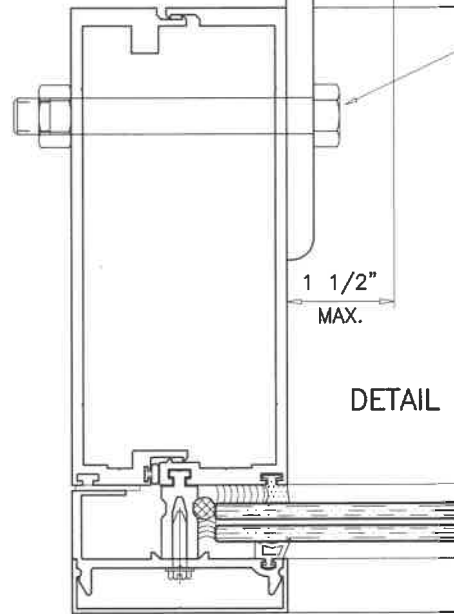
(2) 1/2" DIA. THRU BOLT GRADE 5
WITH WASHER & NUT
(3" APART)

JAMB
ANCHOR TYPE '1'
WIND LOAD $\leq$ 1900 LBS
DEAD LOAD $\leq$ 330 LBS

1 1/2"
MAX.

$$\text{JAMB DEAD LOAD} = \frac{\text{FRAME WIDTH (FT.)} \times \text{FRAME HT. (FT.)}}{2} \times 11 \text{ PSF}$$

DETAIL '4A'

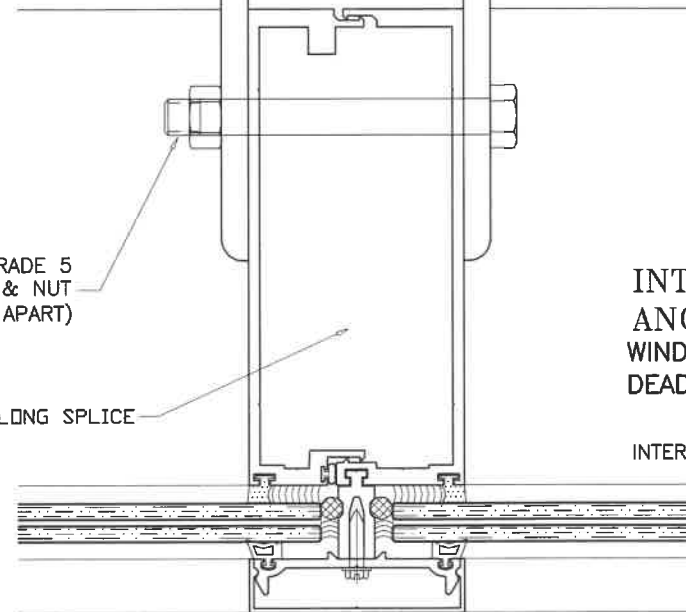


(2) 1/2" DIA. THRU BOLT GRADE 5
WITH WASHER & NUT
(3" APART)

60" LONG SPLICE

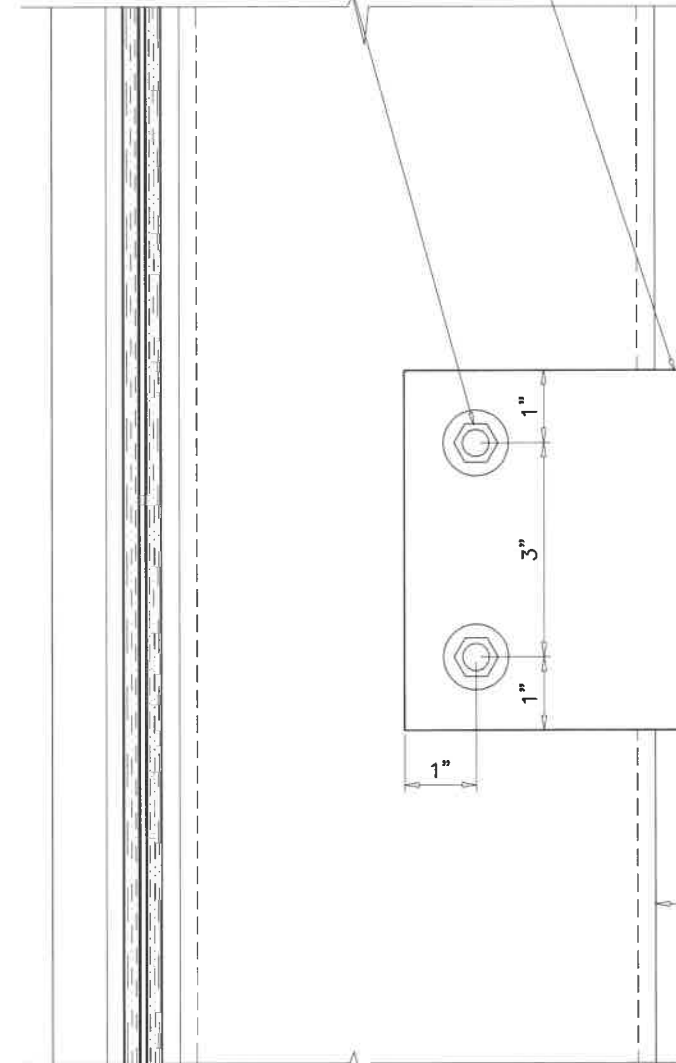
INTERMEDIATE
ANCHOR TYPE '1'
WIND LOAD $\leq$ 3800 LBS
DEAD LOAD $\leq$ 660 LBS

$$\text{INTERMEDIATE DEAD LOAD} = \text{FRAME WIDTH (FT.)} \times \text{FRAME HT. (FT.)} \times 11 \text{ PSF}$$



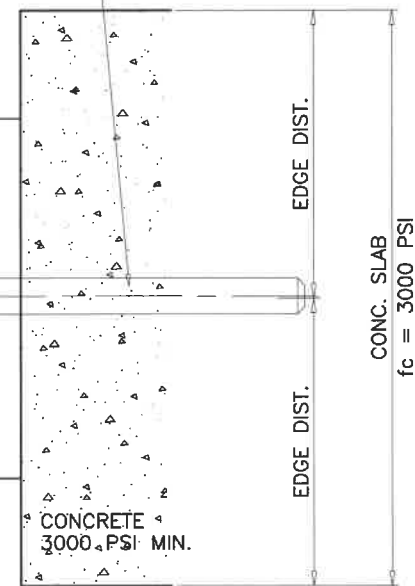
5 X 5 X 3/8"
STL. ANGLE, 5" LONG
AT EACH SIDE OF MULLION

1/2" DIA. THRU BOLT GRADE 5
WITH WASHER & NUT



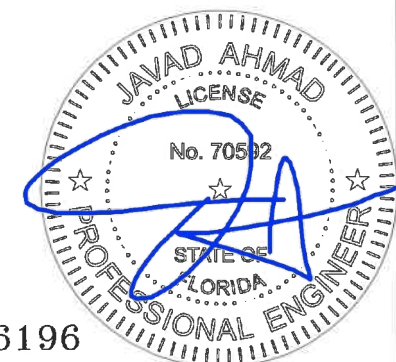
INTERMEDIATE ANCHORS
DETAIL '4'

1/2" DIA. POWERS WEDGE-BOLT
1 PER ANGLE
4" MIN. EMBED
6" C/C SPACING
4" MIN. EDGE DIST.



1" $\pm$ 1/2"
MAX.

ANCHORS INTO CONCRETE



WIND + DEAD LOAD ANCHOR

FL #16196

af c
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\W17-76GTE

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revisions:
no date by description

date: 08-24-17
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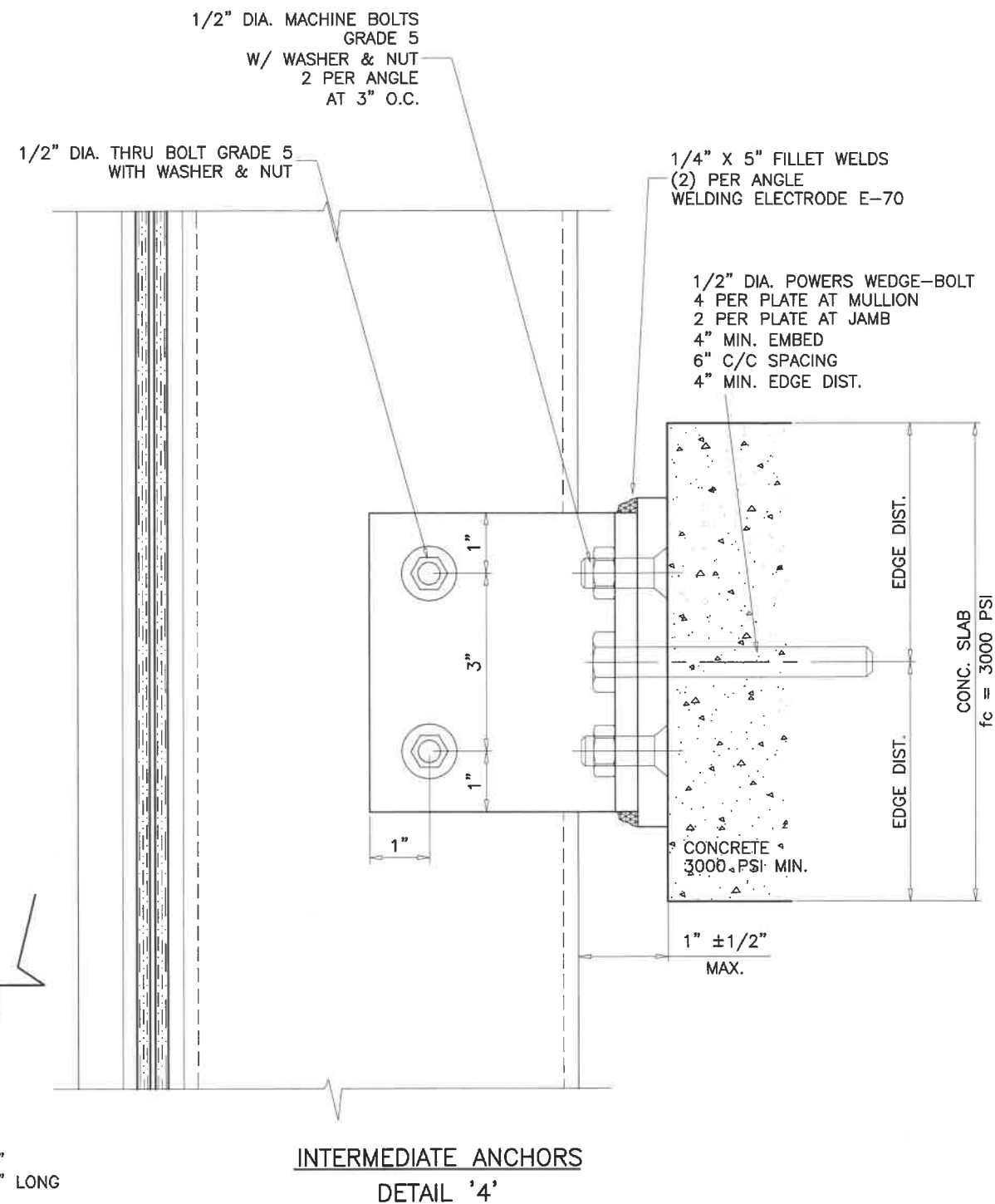
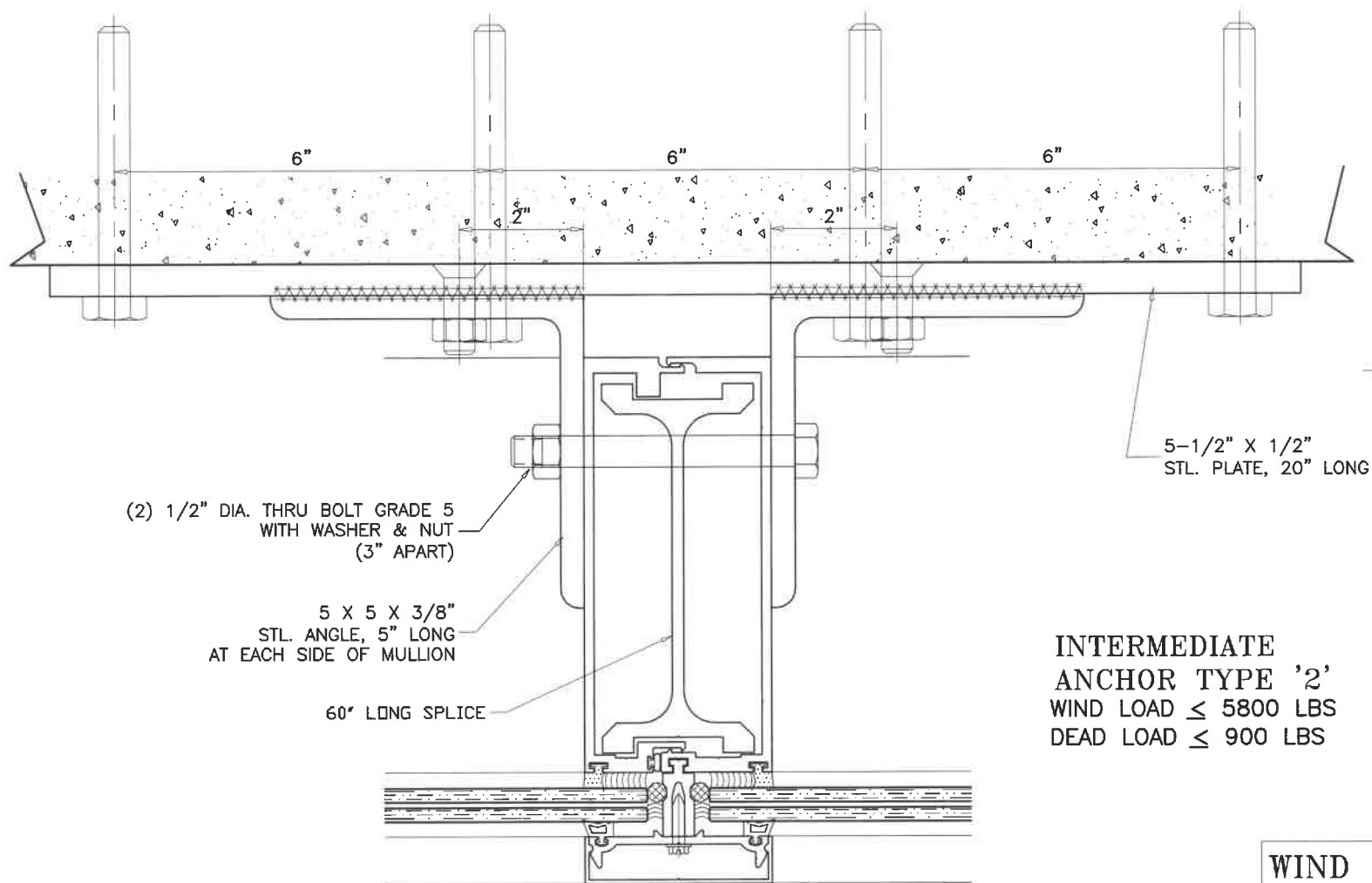
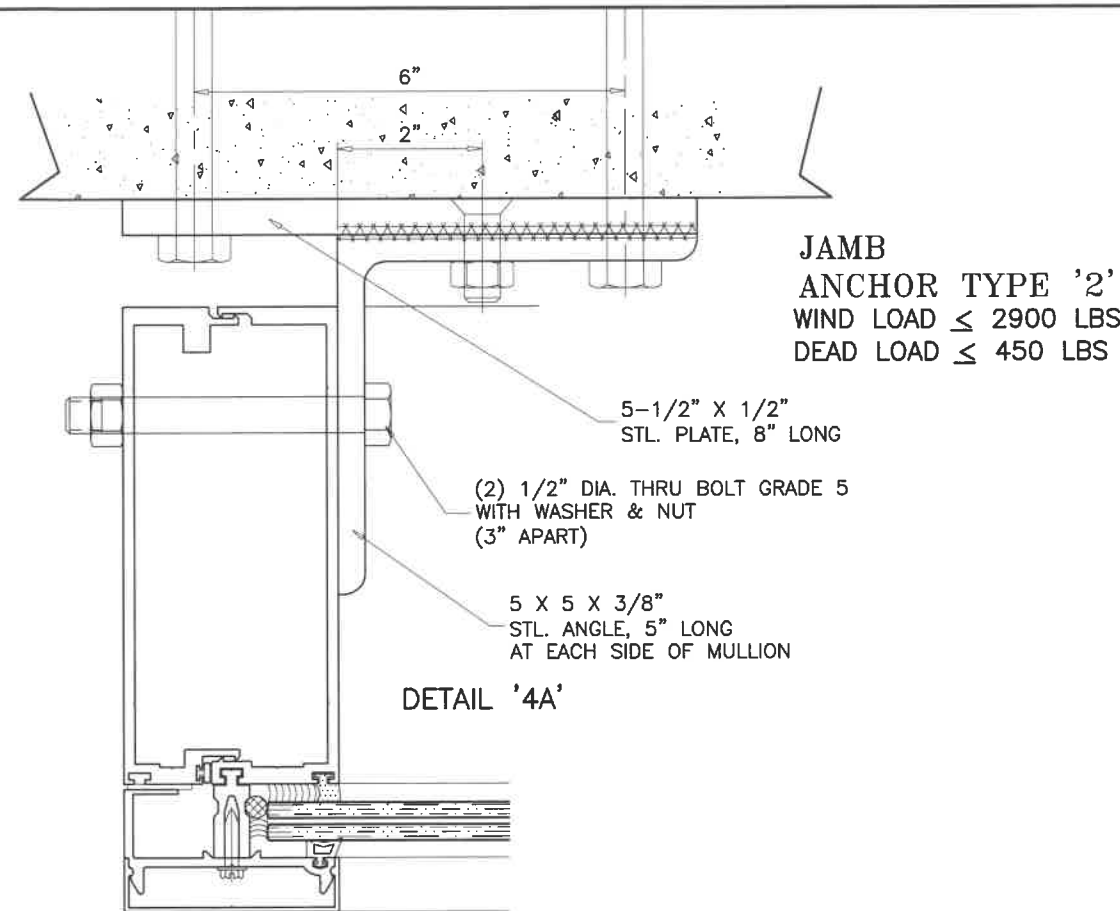
dr. by: TARIQ

chk. by:

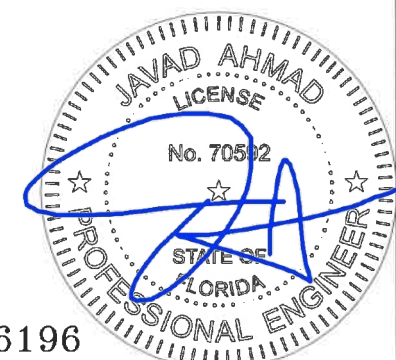
drawing no.

W17-76

sheet 17 of 24



ANCHORS INTO CONCRETE



WIND + DEAD LOAD ANCHOR

FL #16196

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Miami, FL. 33166
Tel. (305) 594-4321 Fax. (305) 599-2730

revisions:		date		by description	
no	date	no	date	no	date

date: 08-24-17

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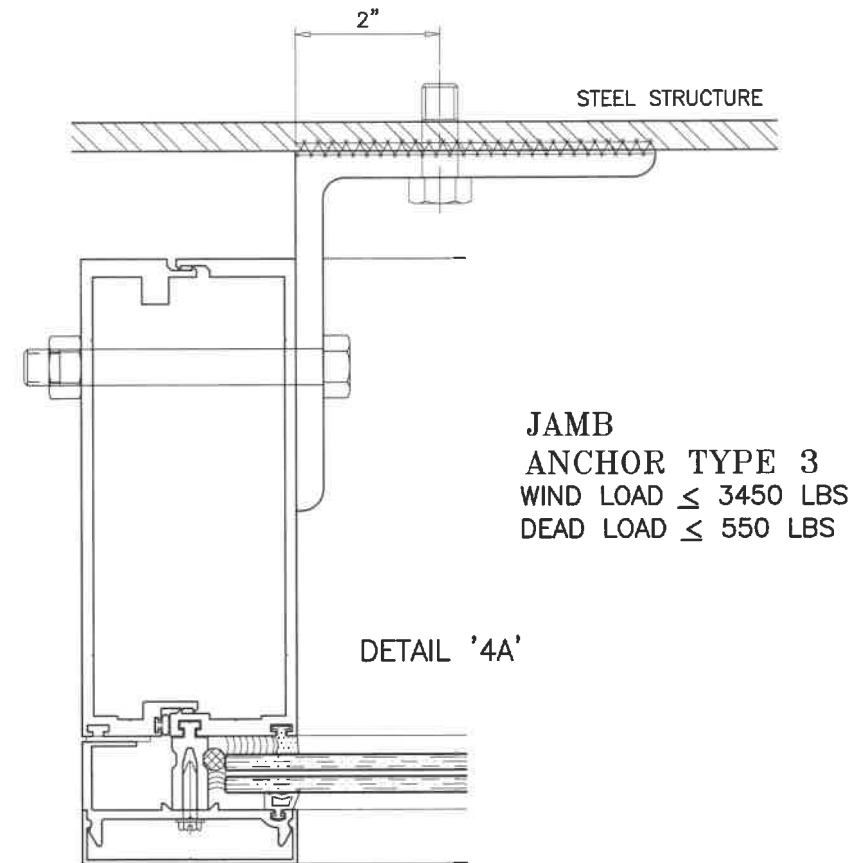
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chk. by:

drawing no.

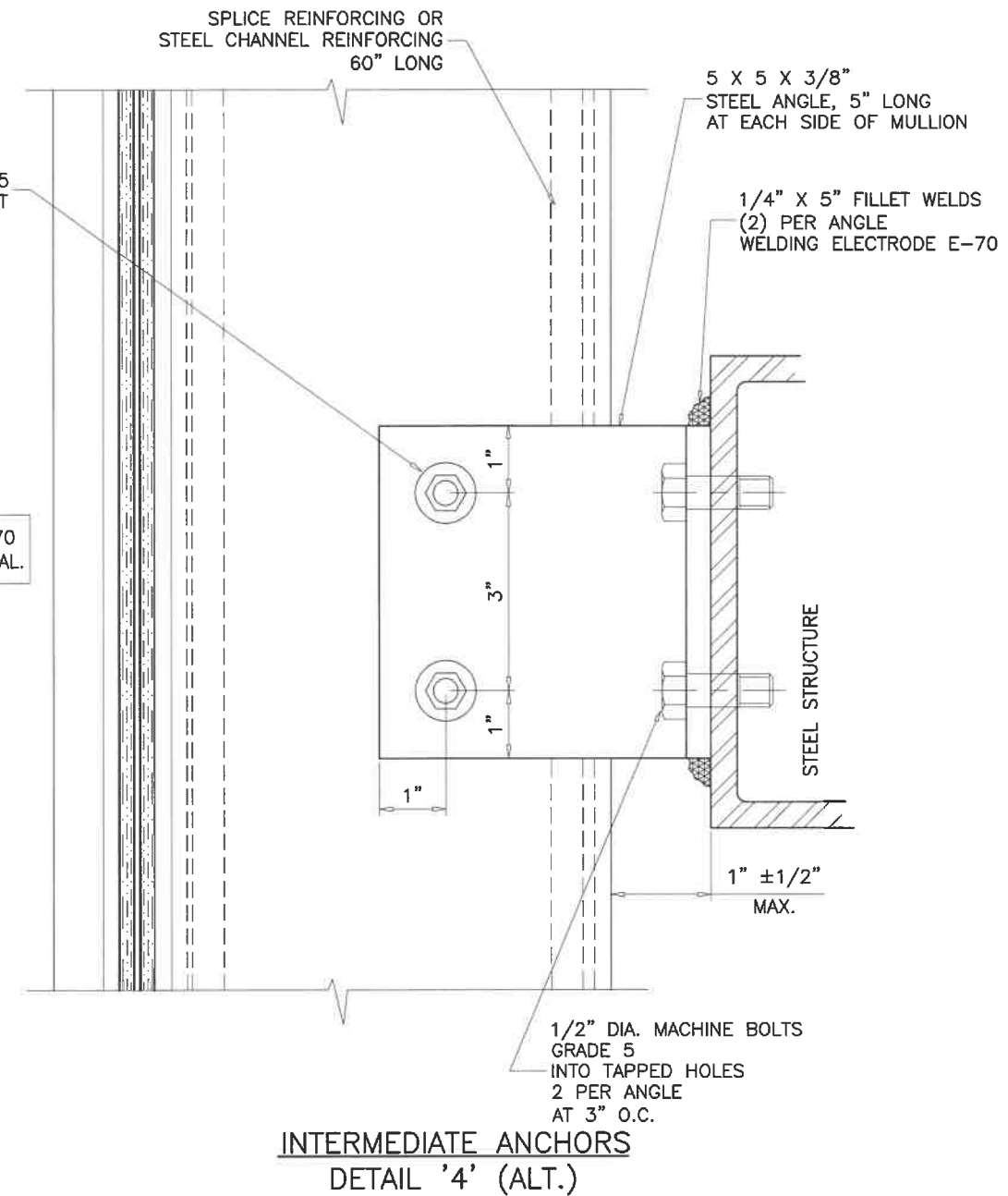
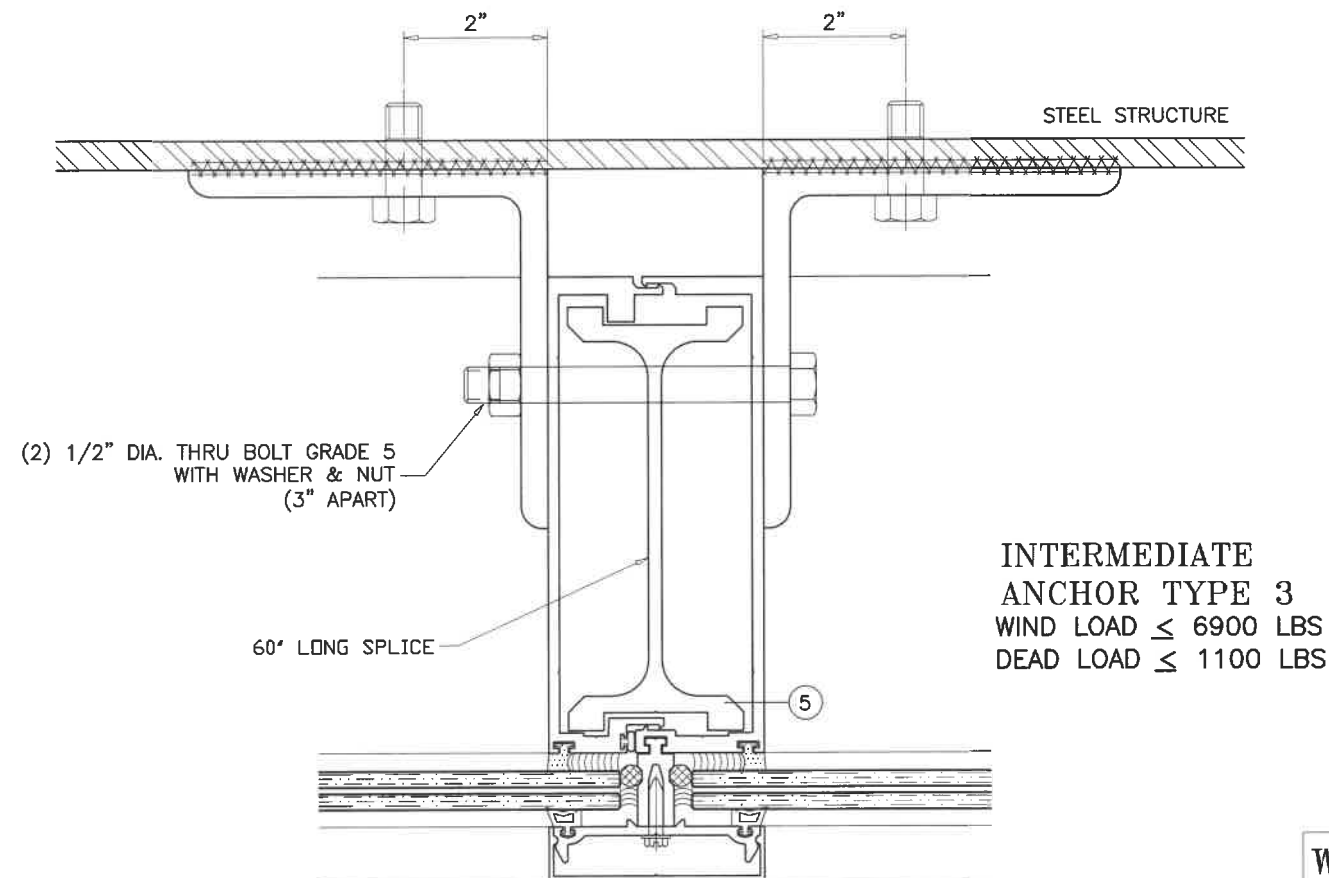
W17-76

sheet 18 of 24



1/2" DIA. THRU BOLT GRADE 5
WITH WASHER & NUT

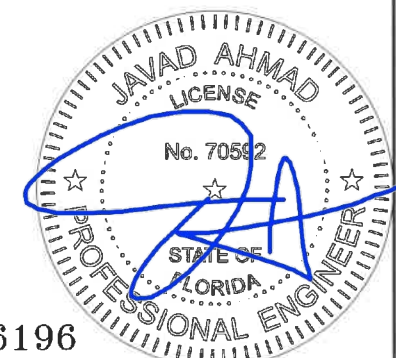
ALL WELDS = 1/4" FILLET, WELDING ELECTRODE E-70
EMBEDDED STEEL STUD IS NOT PART OF THIS APPROVAL.



ANCHORS INTO METAL STRUCTURES
COMMERCIAL STEEL - 1/4" MIN. THICKNESS

WIND + DEAD LOAD ANCHOR

FL #16196



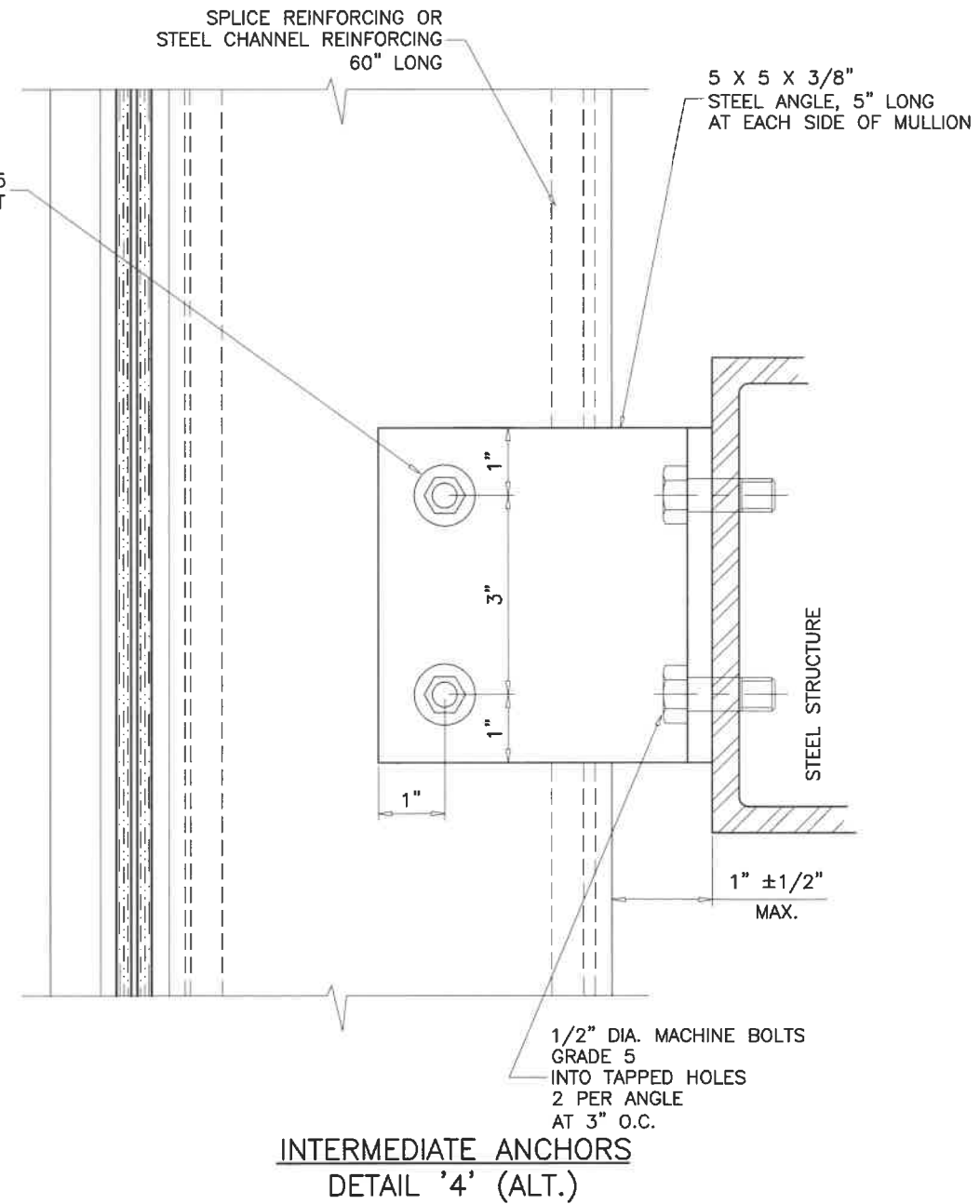
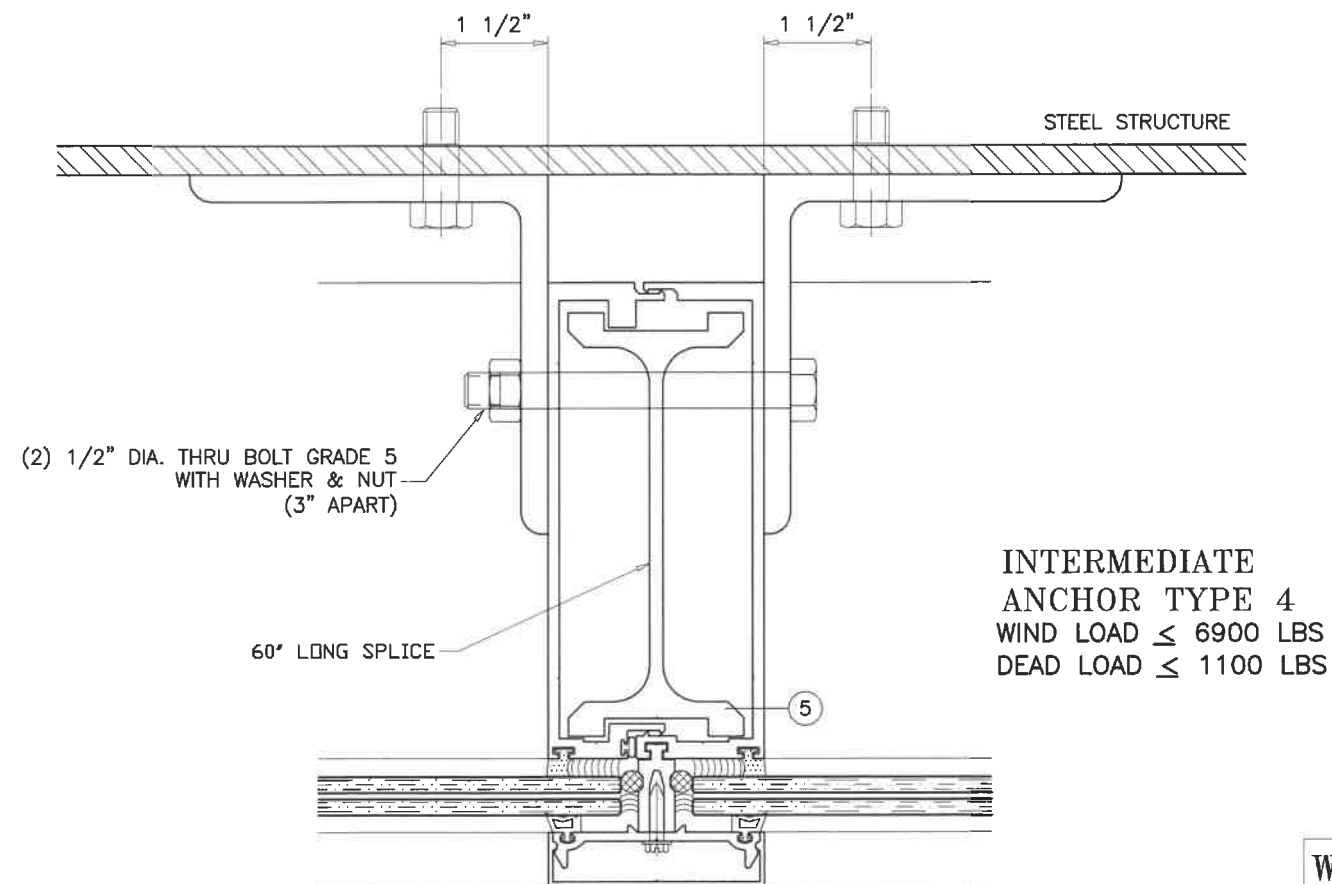
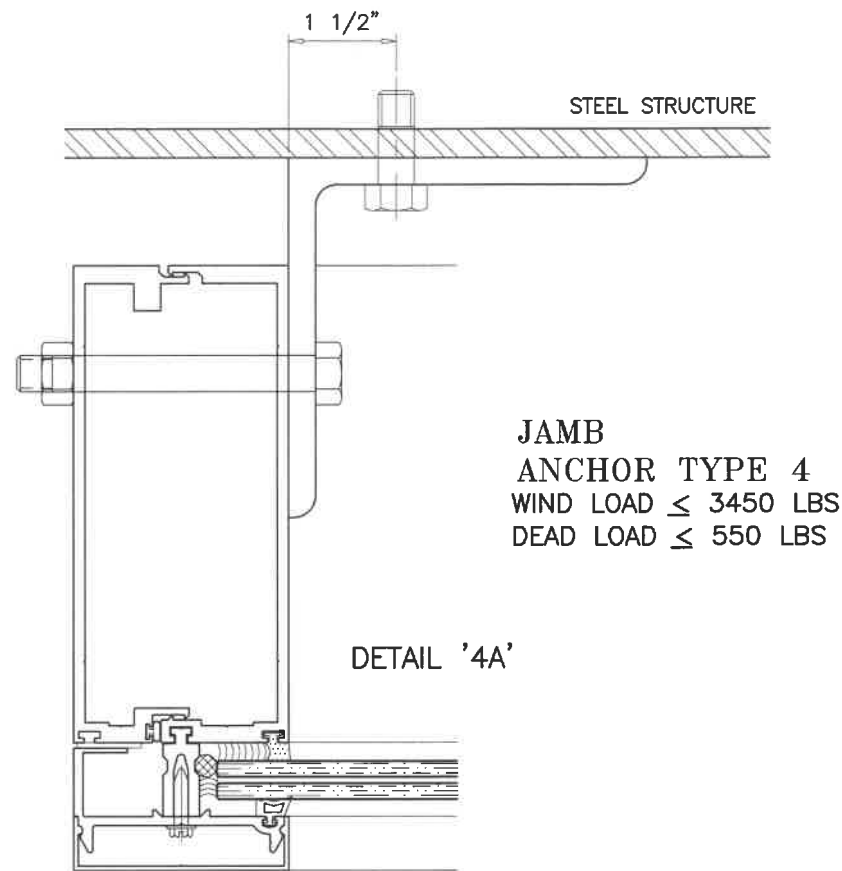
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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SERIES-2047 ALUM CURTAIN WALL SYSTEM (L.M.I.)
Glass Tech Engineering, Inc.
8321 N.W. 70th Street
Miami, FL. 33166
Tel. (305) 594-4321 Fax. (305) 599-2730

revisions:	no	date	by	description

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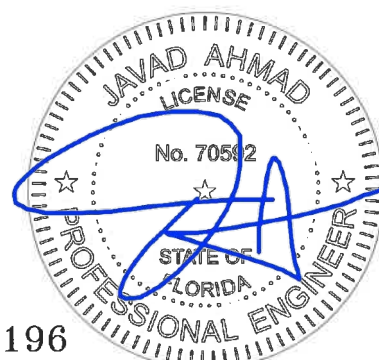
drawing no.
W17-76
sheet 19 of 24



ANCHORS INTO METAL STRUCTURES
COMMERCIAL STEEL - 1/4" MIN. THICKNESS

WIND + DEAD LOAD ANCHOR

FL #16196



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revisions:

no	date	by	description

date: 08-24-17 scale: 3/8" = 1" dr. by: TARIQ chk. by:
drawing no. **W17-76** sheet 19.1 of 24

INTERMEDIATE
ANCHOR
WIND LOAD $\leq$ 2500 LBS (EACH SIDE)
DEAD LOAD $\leq$ 330 LBS (EACH SIDE)

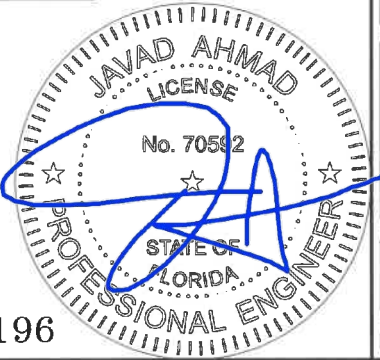
1/2" DIA. WEDGE-BOLT
2 PER PLATE
4" MIN. EMBED
4" MIN. EDGE DIST.

3/8" THK. GUSSET PLATE
ATTACHED TO BENT PLATE
W/ 5/16" X 1" WELDS AT 2" O.C.
BOTH SIDES

10 X 10 X 3/8"
STEEL BENT PLATE, 5" LONG
AT EACH SIDE OF MULLION

(2) 1/2" DIA. THRU BOLT GRADE 5
WITH WASHER & NUT
3" C/C SPACING

CORNER MULLION ANCHORS
DEATIL '5'



WIND + DEAD LOAD ANCHOR

FL #16196

Sealed 7/24/19



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no	date by description

date: 08-24-17

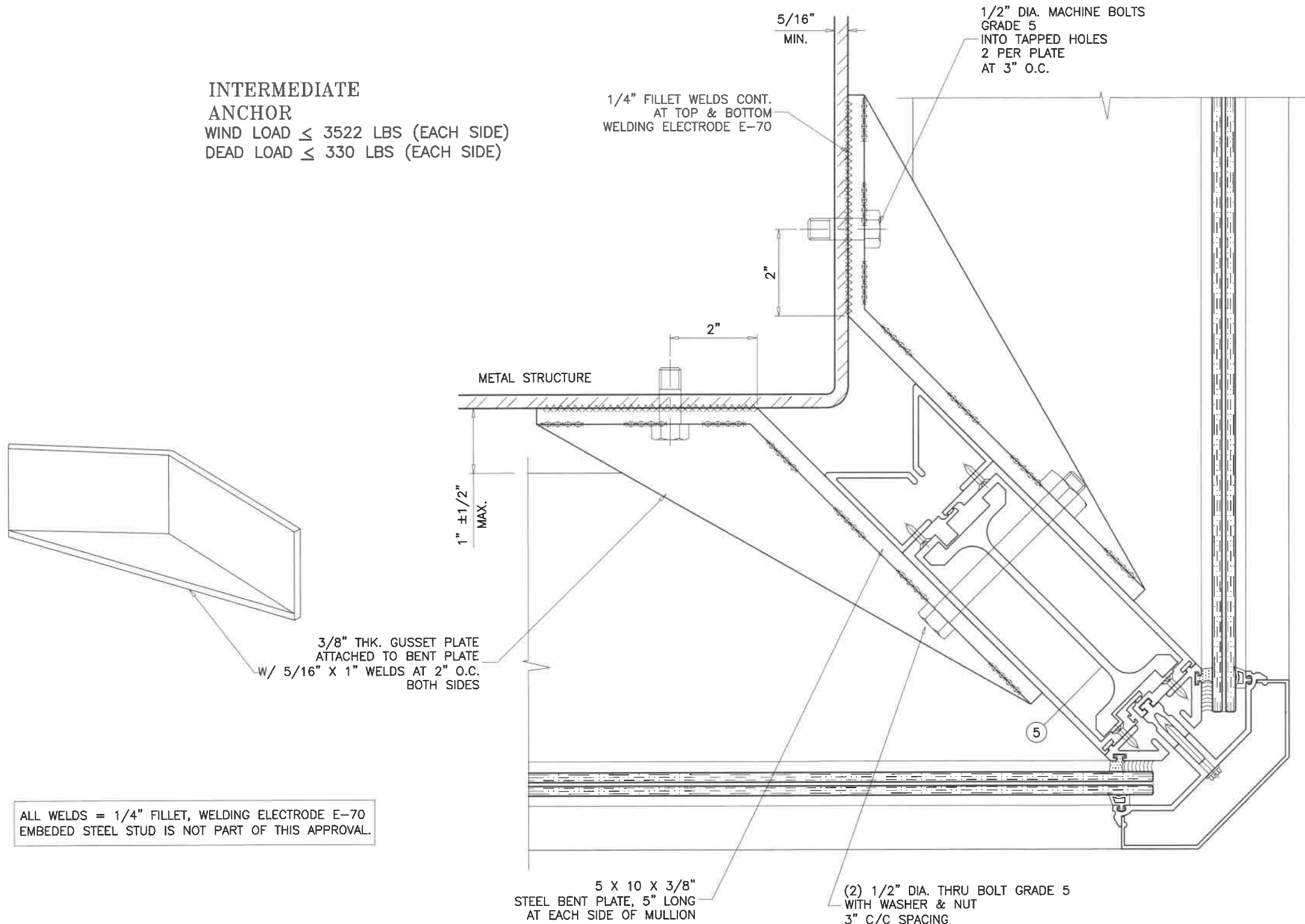
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dr. by: TARIQ

chk. by:

drawing no.
W17-76

sheet 20 of 24

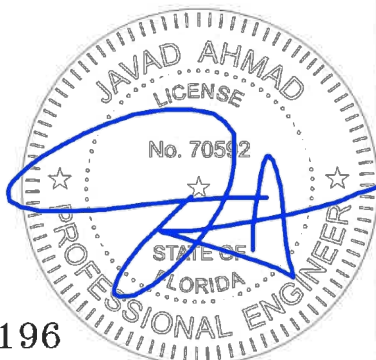


INTERMEDIATE
ANCHOR
WIND LOAD $\leq$ 3522 LBS (EACH SIDE)
DEAD LOAD $\leq$ 330 LBS (EACH SIDE)

ALL WELDS = 1/4" FILLET, WELDING ELECTRODE E-70
EMBEDDED STEEL STUD IS NOT PART OF THIS APPROVAL.

CORNER MULLION ANCHORS
DETAIL '8' (ALT.)

ANCHORS INTO METAL STRUCTURES
COMMERCIAL STEEL - 1/4" MIN. THICKNESS



WIND + DEAD LOAD ANCHOR

FL #16196



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revisions:	
no	date by description

date: 08-24-17

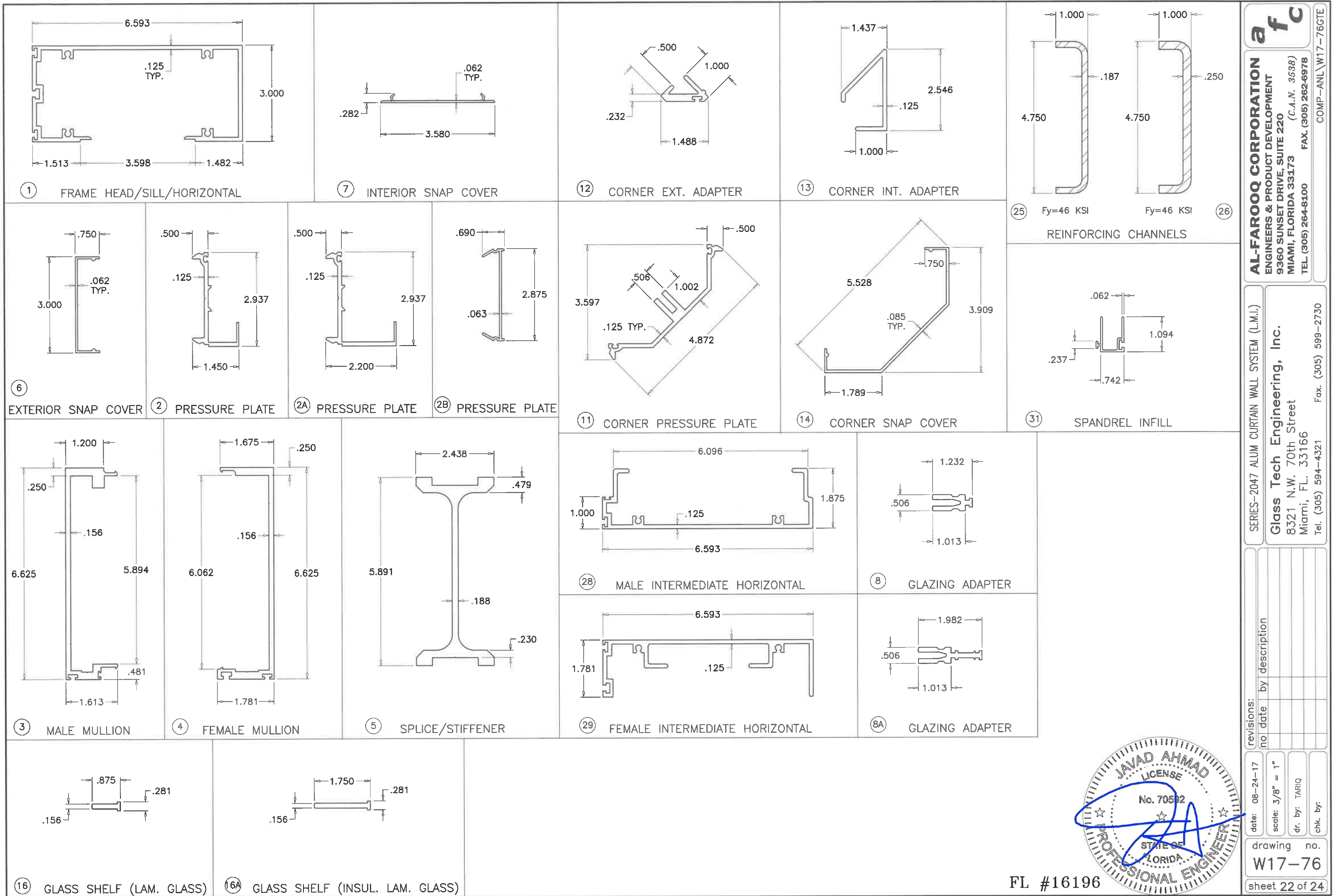
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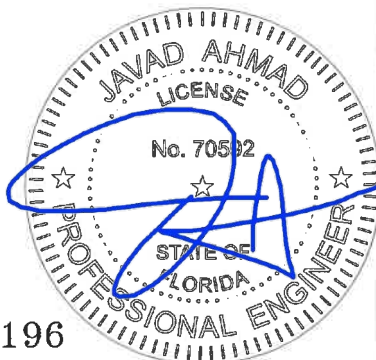
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drawing no.
W17-76

sheet 21 of 24



FL #16196



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date: 08-24-17

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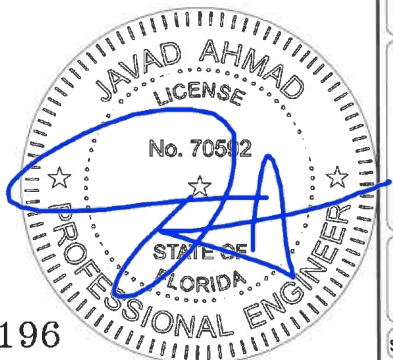
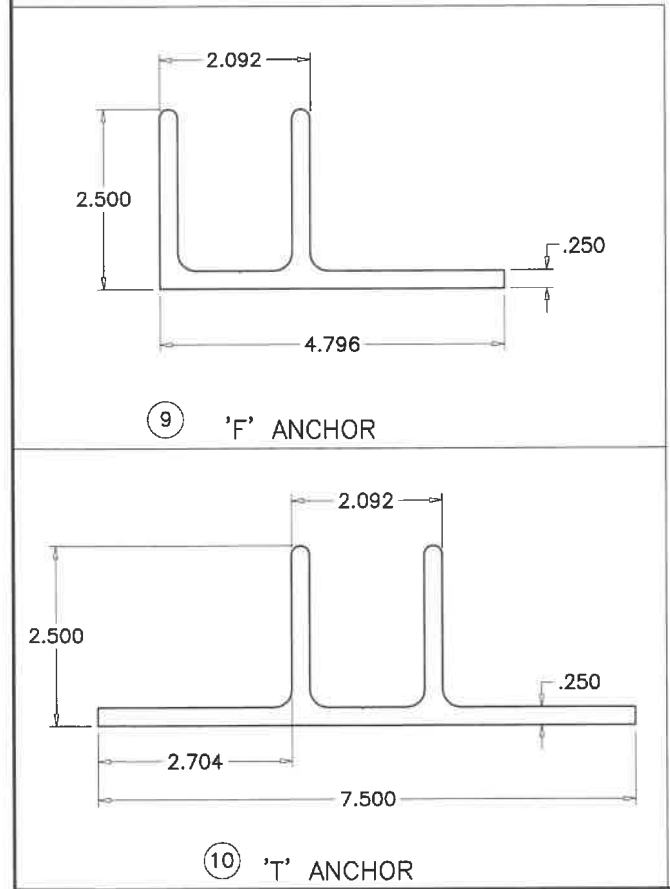
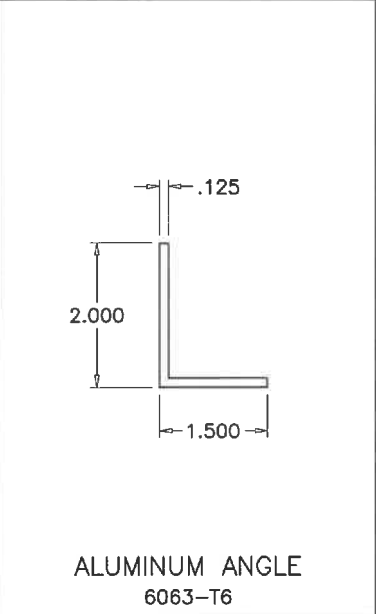
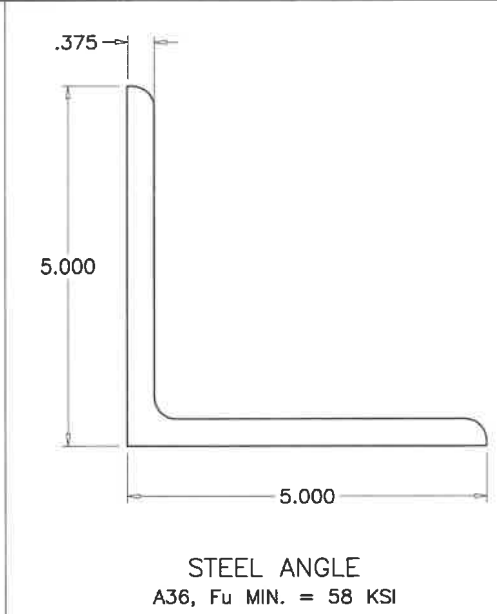
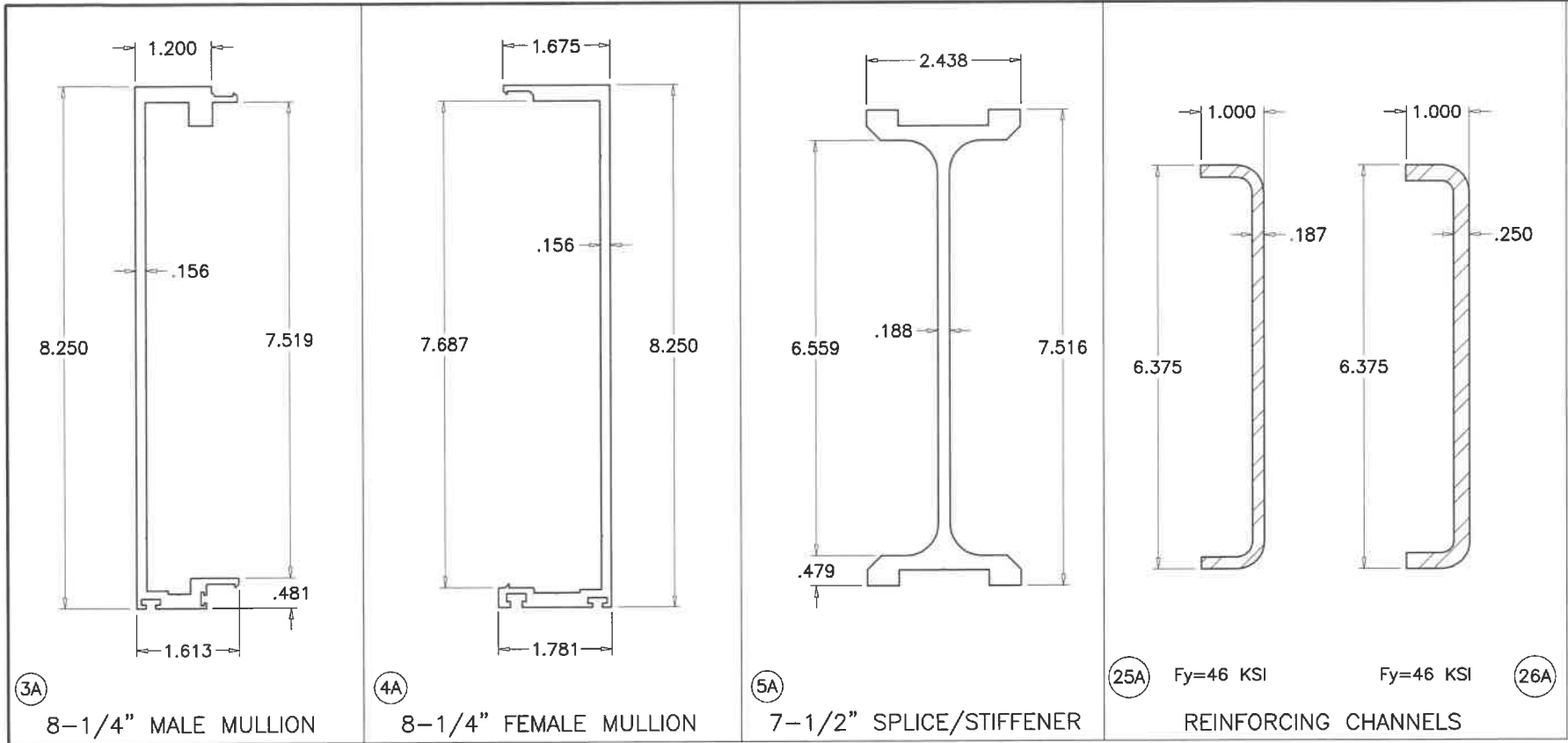
dr. by: TARIQ

chk. by:

drawing no.

W17-76

sheet 22 of 24



FL #16196

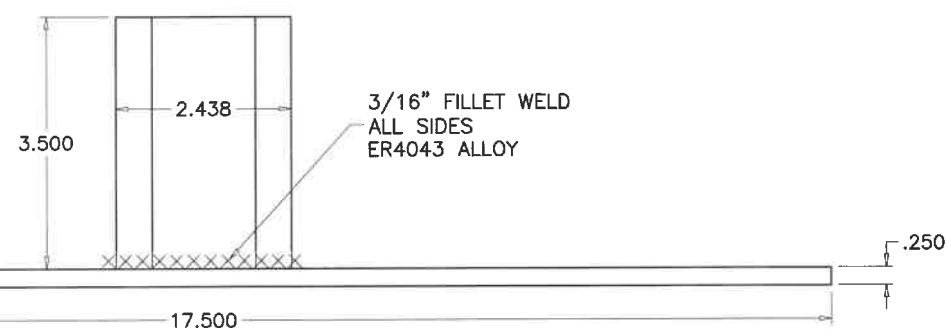
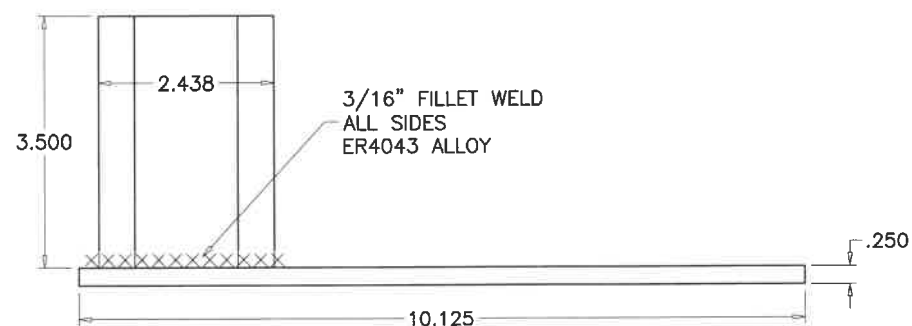
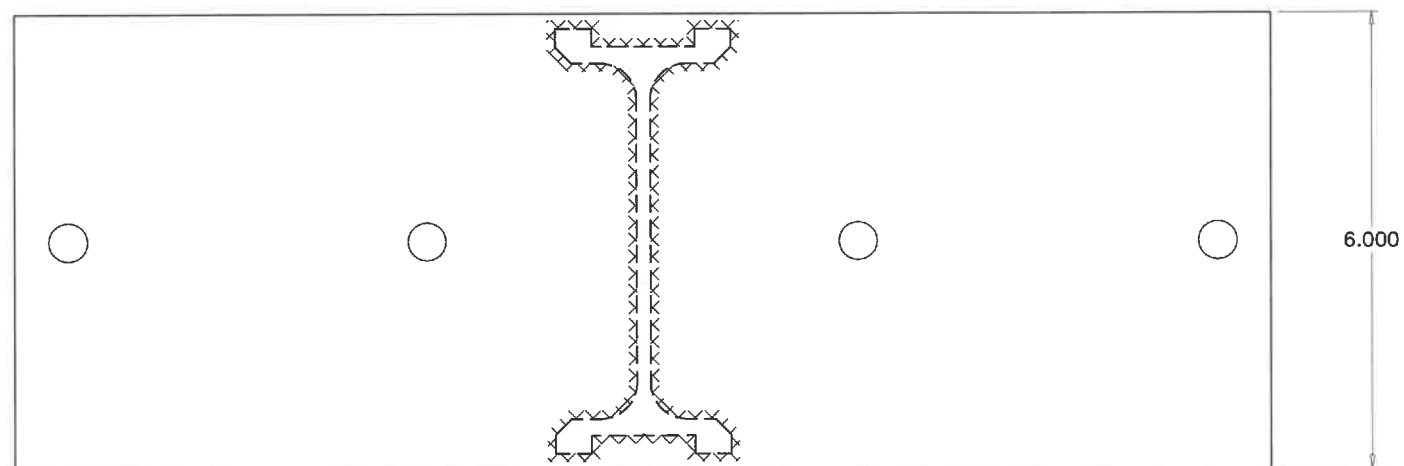
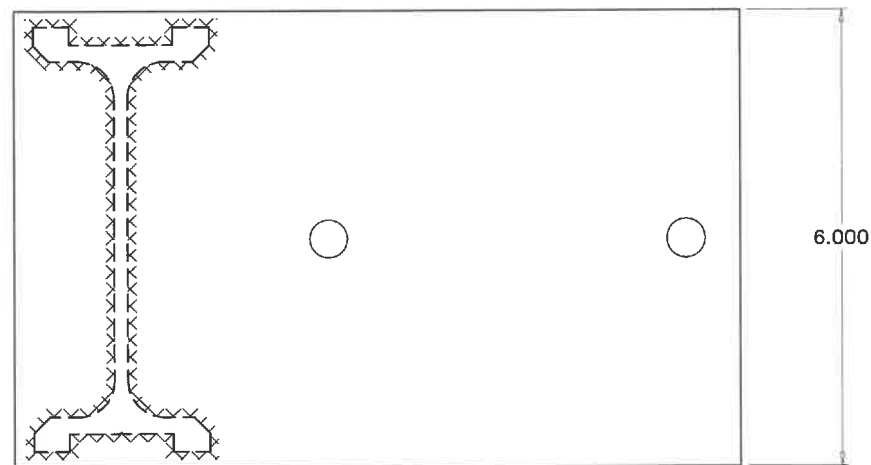
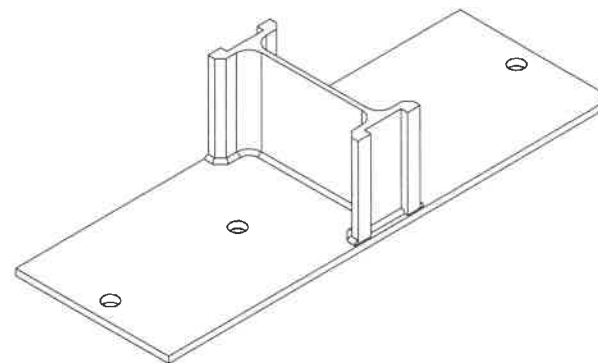
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Glass Tech Engineering, Inc.
8321 N.W. 70th Street
Miami, FL. 33166
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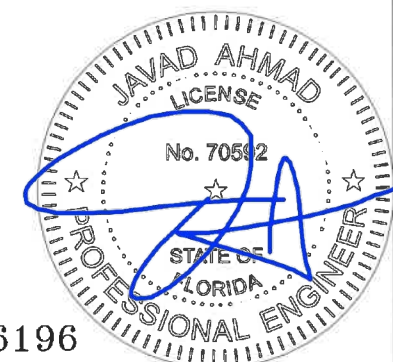
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drawing no. **W17-76**
sheet 22.1 of 24



9A 'F' ANCHOR

10A 'T' ANCHOR



FL #16196

Sealed 7/24/19

a f c

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8160-707 (906) YHJ

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Miami, FL.

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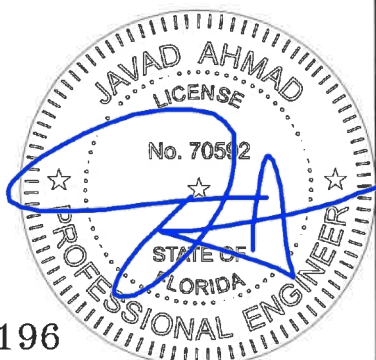
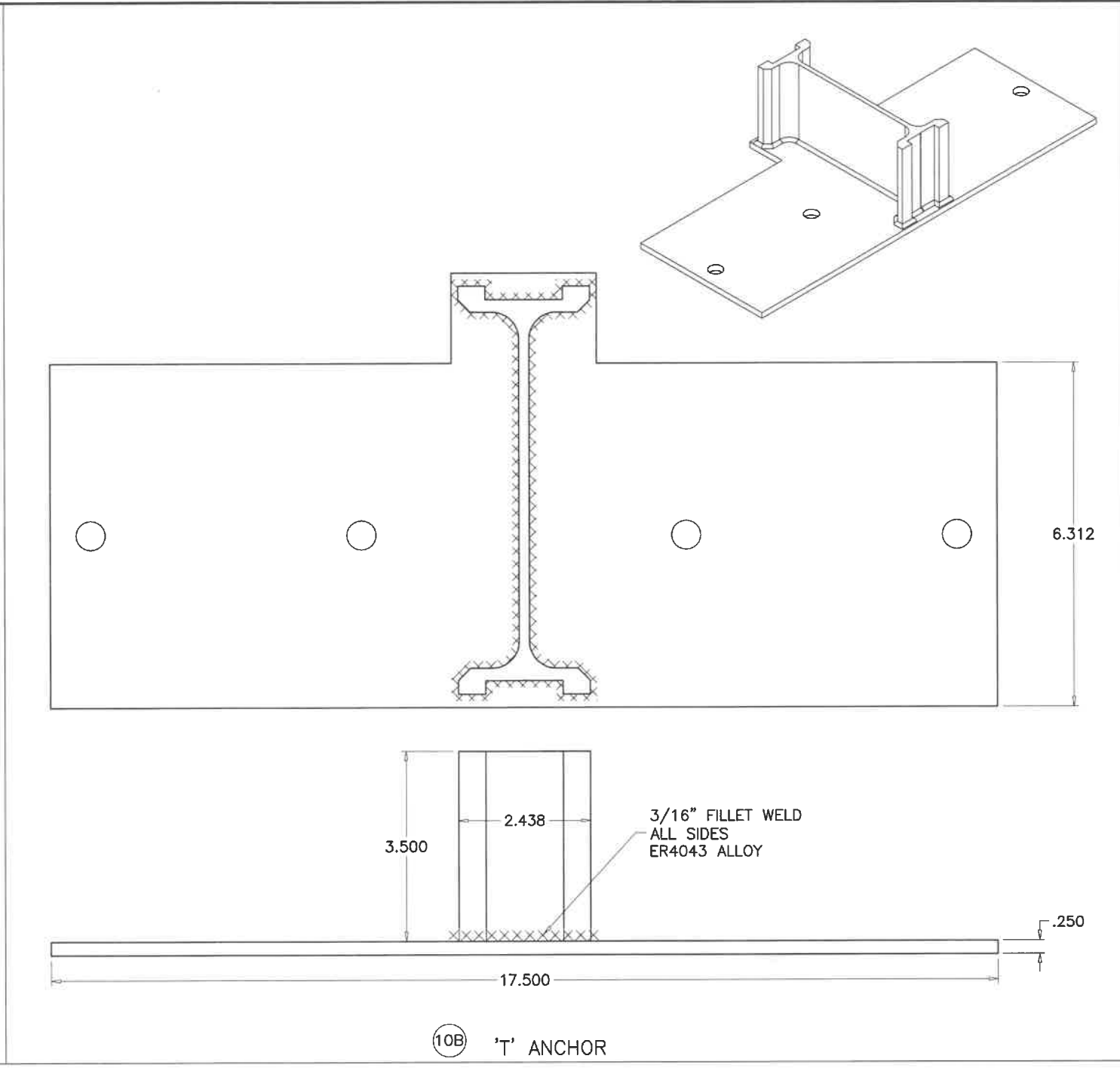
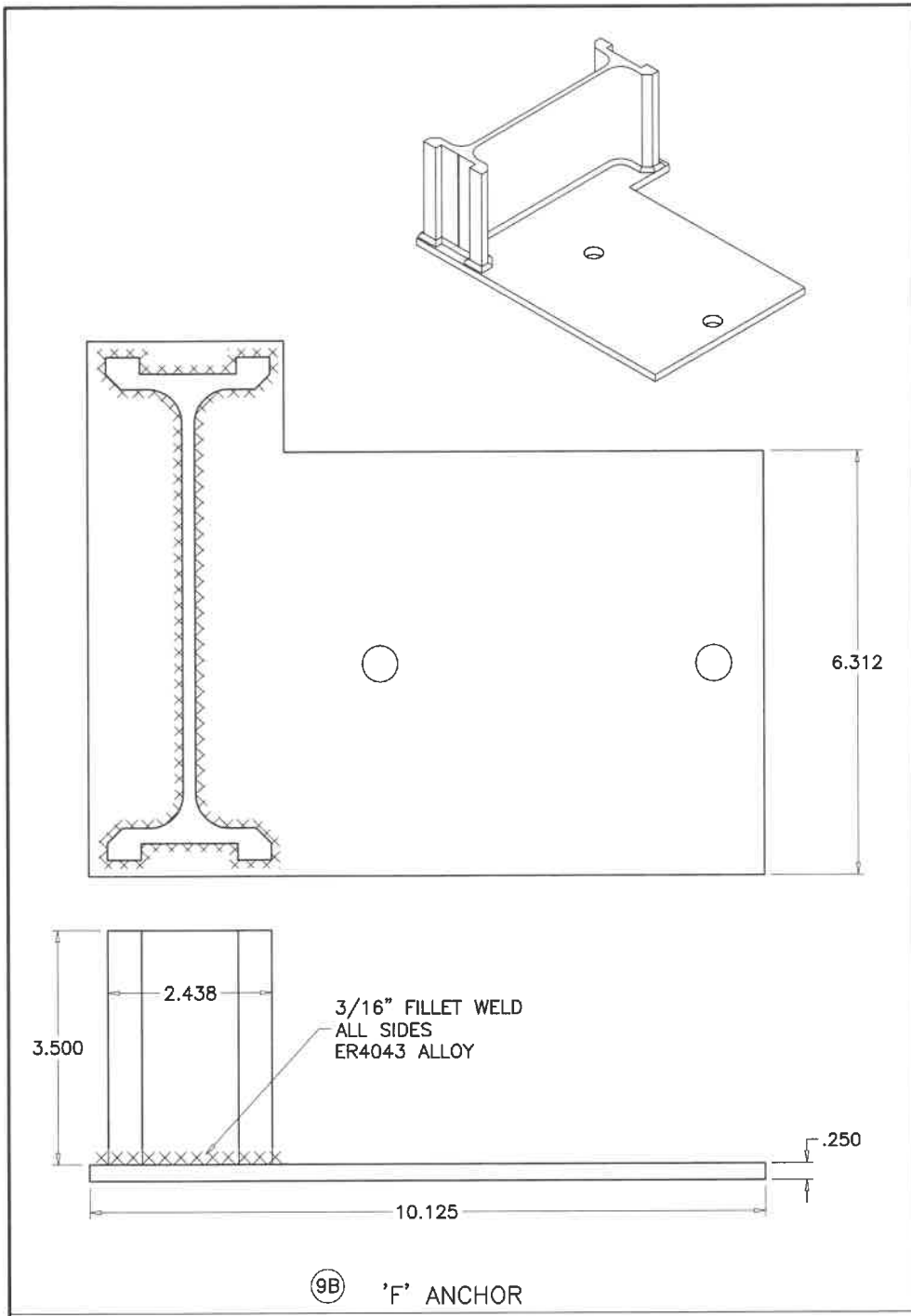
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chk. by:

drawing no.
W17-76

sheet 22.2 of 24



FL #16196

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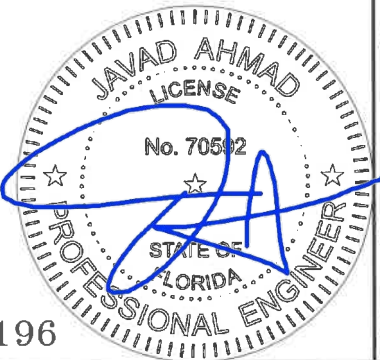
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chk. by:

revisions:

no	date	by	description

drawing no.
W17-76
sheet 22.3 of 24

ITEM NO.	PART NO.	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	GT-700	AS REQD.	FRAME HEAD/SILL/HORIZONTAL	6063-T6	-
2	GT-714	AS REQD.	PRESSURE PLATE (LAM. GLASS)	6063-T5	-
2A	GT-719	AS REQD.	PRESSURE PLATE (INSUL. LAM. GLASS)	6063-T5	-
2B	GTE-715	AS REQD.	PRESSURE PLATE (DECORATIVE)	6063-T5	-
3	GT-705	AS REQD.	6-5/8" MALE MULLION	6063-T6	-
3A	GT-723	AS REQD.	8-1/4" MALE MULLION	6063-T6	-
4	GT-706	AS REQD.	6-5/8" FEMALE MULLION	6063-T6	-
4A	GT-724	AS REQD.	8-1/4" FEMALE MULLION	6063-T6	-
5	GT-707	AS REQD.	5-7/8" SPLICE/STIFFENER	6105-T5	-
5A	GT-722	AS REQD.	7-1/2" SPLICE/STIFFENER	6105-T5	-
6	GT-713	AS REQD.	EXTERIOR SNAP COVER	6063-T5	-
7	GT-701	AS REQD.	INTERIOR SNAP COVER	6063-T5	-
8	GT-702	AS REQD.	GLAZING ADAPTER (LAM. GLASS)	6063-T6	-
8A	GT-717	AS REQD.	GLAZING ADAPTER (INSUL. LAM. GLASS)	6063-T6	-
9	GT-715	AS REQD.	'F' ANCHOR	6105-T5	-
9A	-	AS REQD.	ALT. 'F' ANCHOR	6105-T5	-
9B	-	AS REQD.	ALT. 'F' ANCHOR	6105-T5	-
10	-	AS REQD.	'T' ANCHOR	6105-T5	-
10A	-	AS REQD.	ALT. 'T' ANCHOR	6105-T5	-
10B	-	AS REQD.	ALT. 'T' ANCHOR	6105-T5	-
11	GT-710	AS REQD.	CORNER PRESSURE PLATE	6063-T5	-
12	GT-709	AS REQD.	CORNER EXTERIOR ADAPTER	6063-T5	-
13	GT-708	AS REQD.	CORNER INTERIOR ADAPTER	6063-T5	-
14	GT-711	AS REQD.	CORNER SNAP COVER	6063-T5	-
16	-	AS REQD.	GLASS SHELF (LAM. GLASS)	6063-T5	-
16A	-	AS REQD.	GLASS SHELF (INSUL. LAM. GLASS)	6063-T5	-
17	6700-01-00	AS REQD.	INTERIOR GLAZING GASKET	EPDM	EXTRUDED POLYMERS
18	6699-01-00	AS REQD.	EXTERIOR GLAZING GASKET	EPDM	EXTRUDED POLYMERS
19	-	AS REQD.	BULB VINYL	SOFT PVC	-
21	1/4-20 X 5/8"	AS REQD.	PRESSURE PLATE SCREWS	ZINC PLATED ST.	HEX HEAD MS, AT 1-1/2" FROM ENDS & 9" O.C. MAX.
21A	1/4-20 X 1-1/2"	AS REQD.	PRESSURE PLATE SCREWS AT 90° CORNERS	ZINC PLATED ST.	HEX HEAD MS, AT 1-1/2" FROM ENDS & 9" O.C. MAX.
22	#12 X 1-1/2"	4/ CORNER	FRAME ASSEMBLY SCREWS	ZINC PLATED ST.	HEX HEAD SELF DRILLING
23	#8 X 3/4"	AS REQD.	INTERIOR/EXTERIOR ADAPTER SCREWS	ZINC PLATED ST.	FH SELF DRILLING, AT 9" O.C.
25	-	AS REQD.	REINFORCING CHANNEL	STEEL	4-3/4" X 1" X 3/16"
25A	-	AS REQD.	REINFORCING CHANNEL	STEEL	6-3/8" X 1" X 3/16"
26	-	AS REQD.	REINFORCING CHANNEL	STEEL	4-3/4" X 1" X 1/4"
26A	-	AS REQD.	REINFORCING CHANNEL	STEEL	6-3/8" X 1" X 1/4"
28	GT-704	AS REQD.	MALE INTERMEDIATE HORIZONTAL	6063-T6	-
29	GT-703	AS REQD.	FEMALE INTERMEDIATE HORIZONTAL	6063-T6	-
30	-	AS REQD.	LOW PROFILE SPACER	ALUMINUM	LINGEMANN-GRUPPE (HELIMA)
31	GT-725	AS REQD.	SPANDREL INFILL	6063-T6	-



FL #16196

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SERIES-2047 ALUM CURTAIN WALL SYSTEM (L.M.I.)

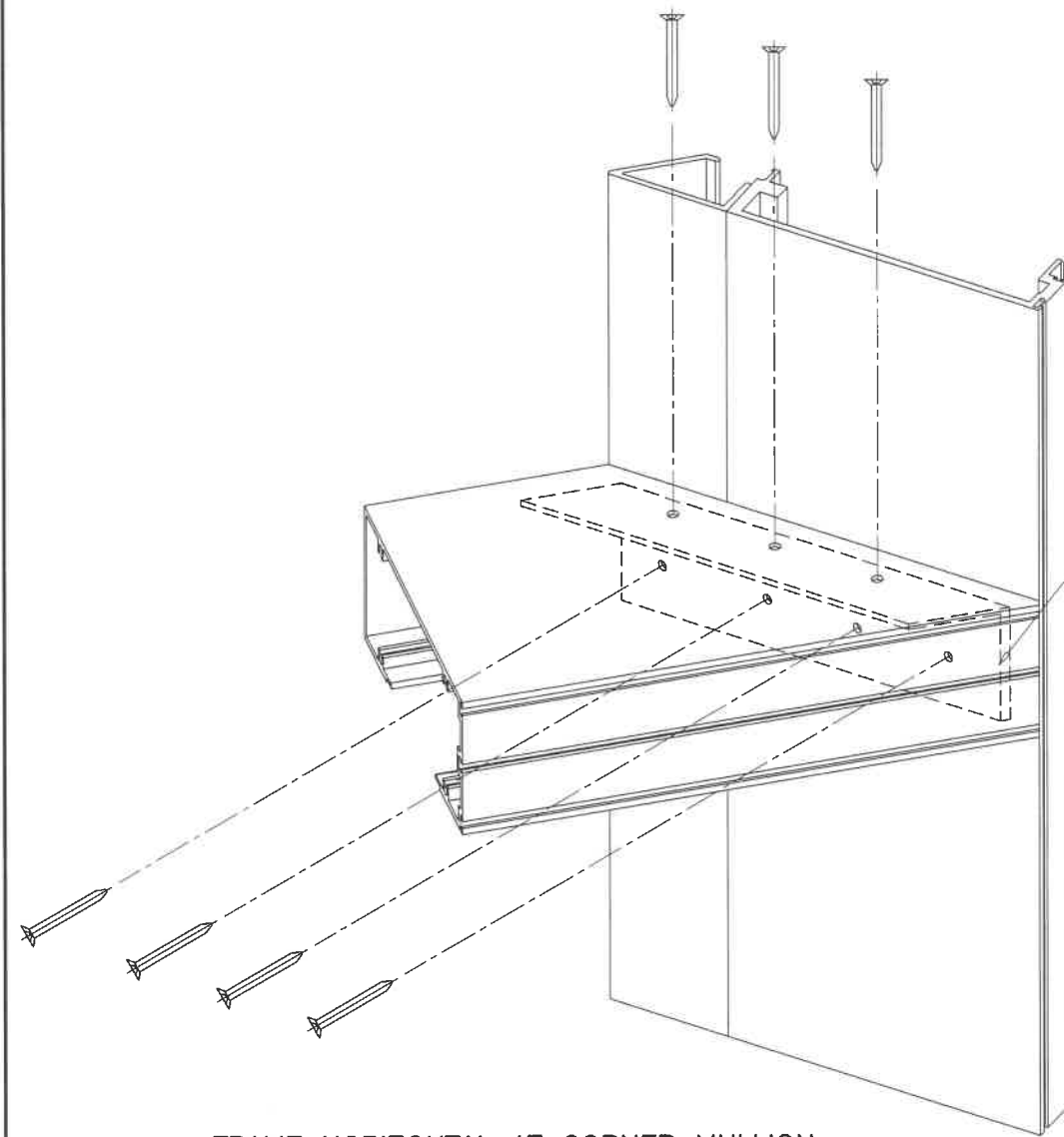
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revisions:
no date by description

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chk. by:

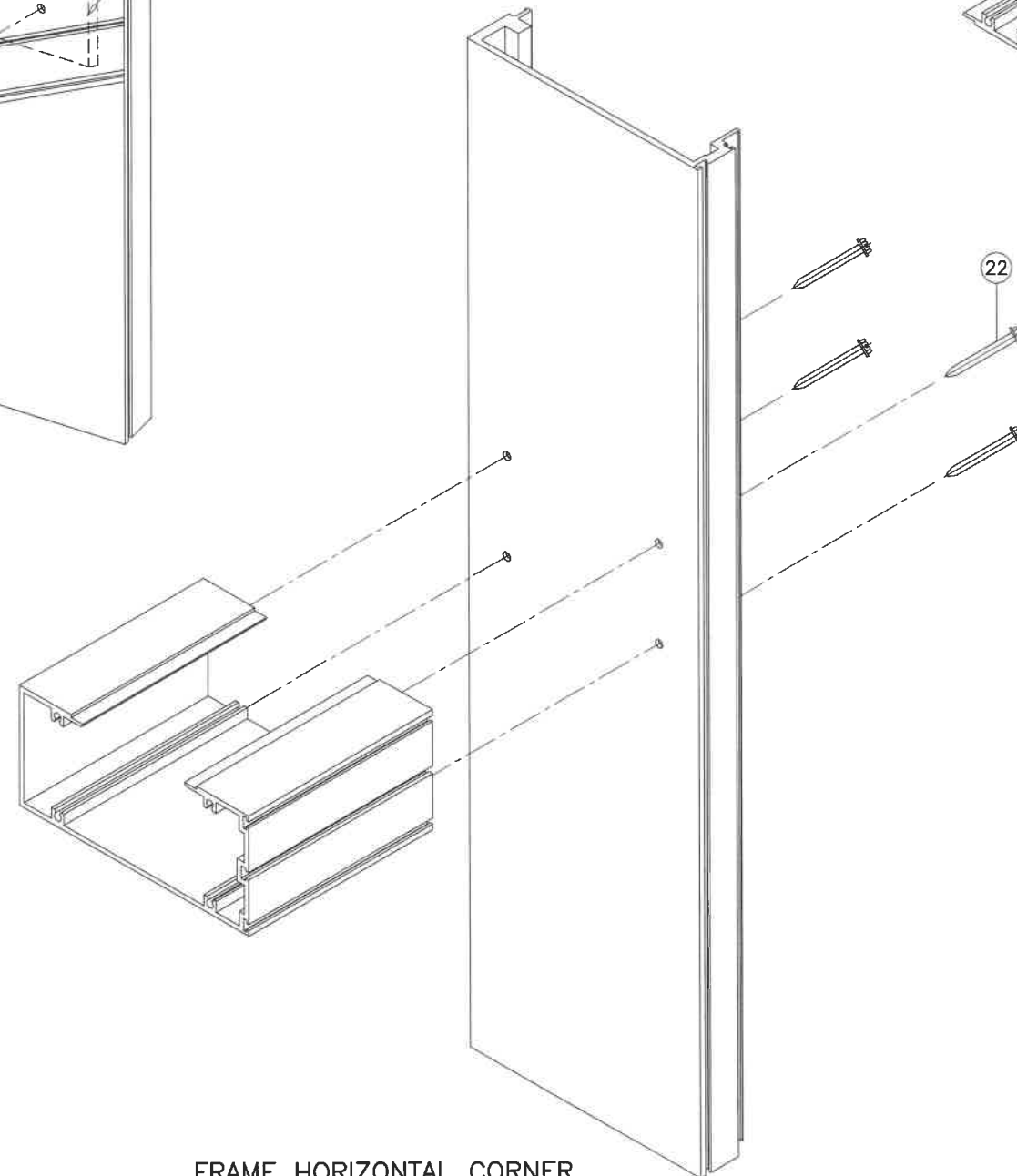
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W17-76
sheet 23 of 24

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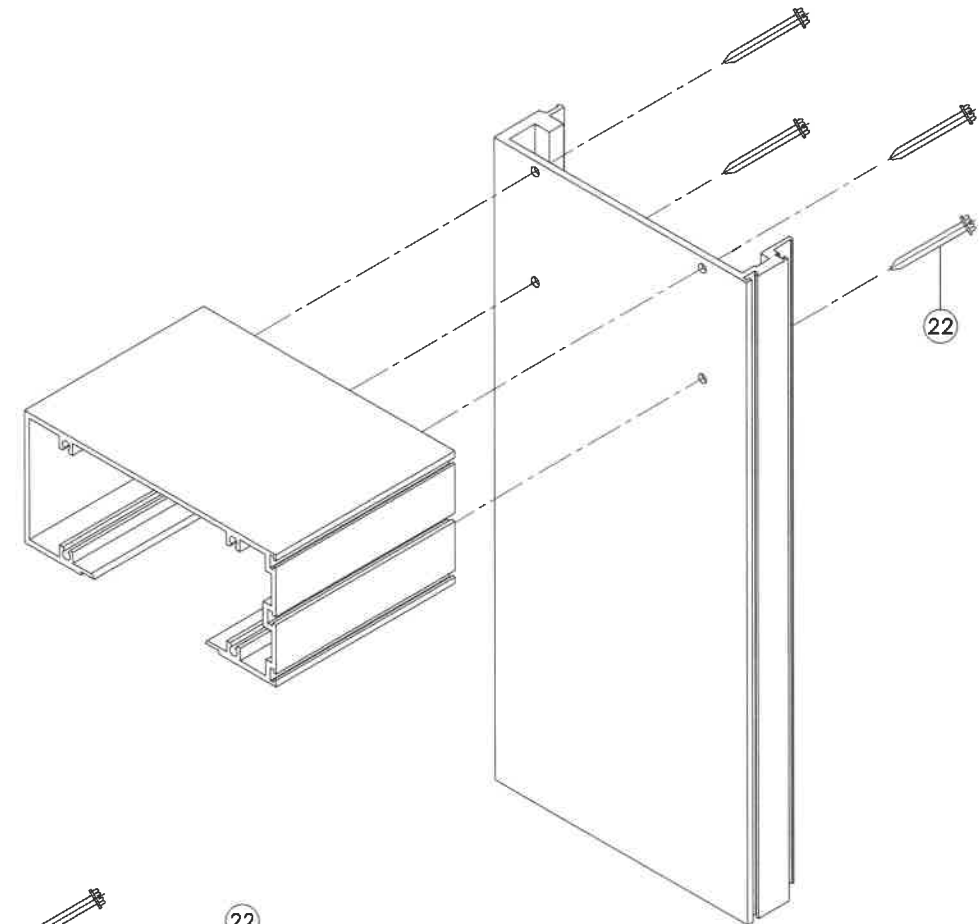


FRAME HORIZONTAL AT CORNER MULLION

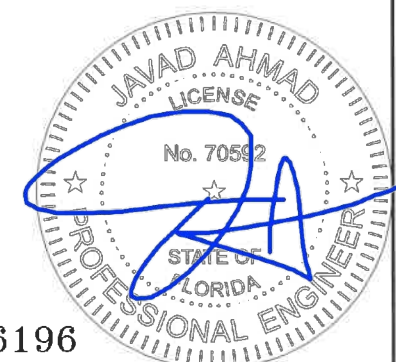
1-1/2" X 2 X 1/8"
ALUM ANGLE
10" LONG



FRAME HORIZONTAL CORNER



FRAME TOP/BOTTOM CORNER



FL #16196

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sheet 24 of 24