

SERIES-2047 ALUM CURTAIN WALL SYSTEM

CURTAIN WALL SYSTEM IS RATED FOR SMALL MISSILE IMPACT. F.B.C. APPROVED IMPACT RESISTANT SHUTTERS REQUIRED FOR INSTALLATIONS UP TO 30 FT. OF GRADE. SHUTTERS NOT REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE. CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2014 (5TH EDITION)/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 2014/2017 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.

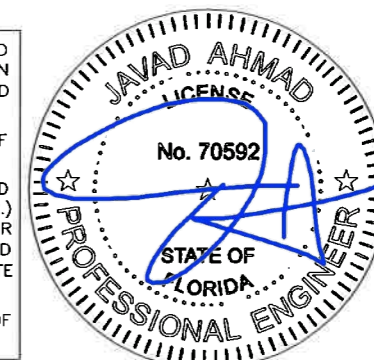
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3	CURTAIN WALL ELEVATION (STRUCTURALLY GLAZED SYS.)
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PRODUCT COMPLIES WITH REQUIREMENTS OF ANSI Z97.1.

LAMINATED GLASS
INSUL. LAM. GLASS
SMALL MISSILE IMPACT

FL #16196

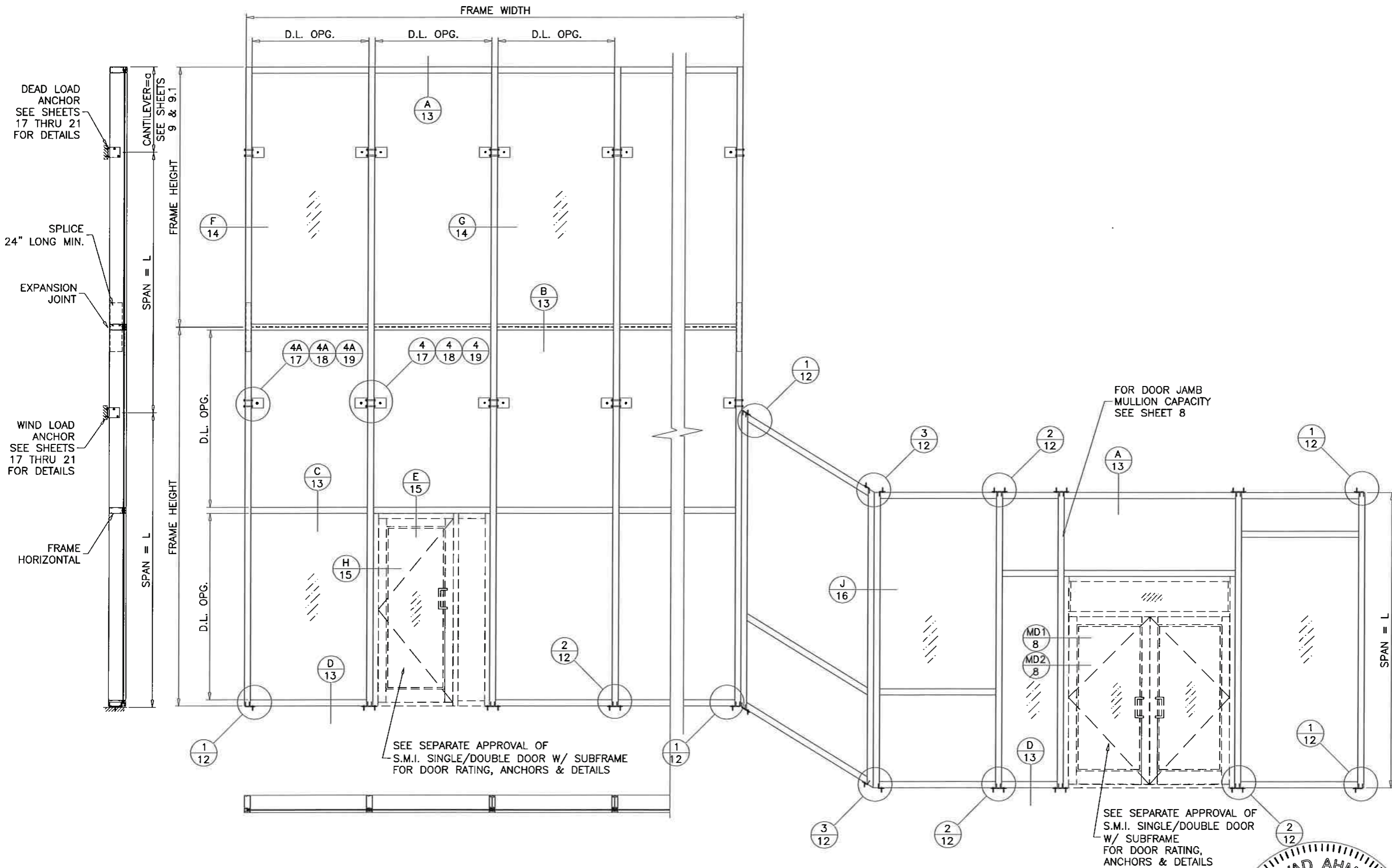
- A- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.
- B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- C- 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.



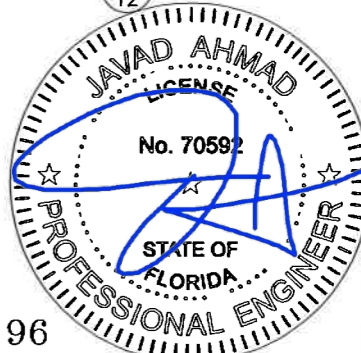
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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W17-87GTE

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

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sheet	1 of 24			



TYPICAL ELEVATION
PRESSURE PLATE SYSTEM



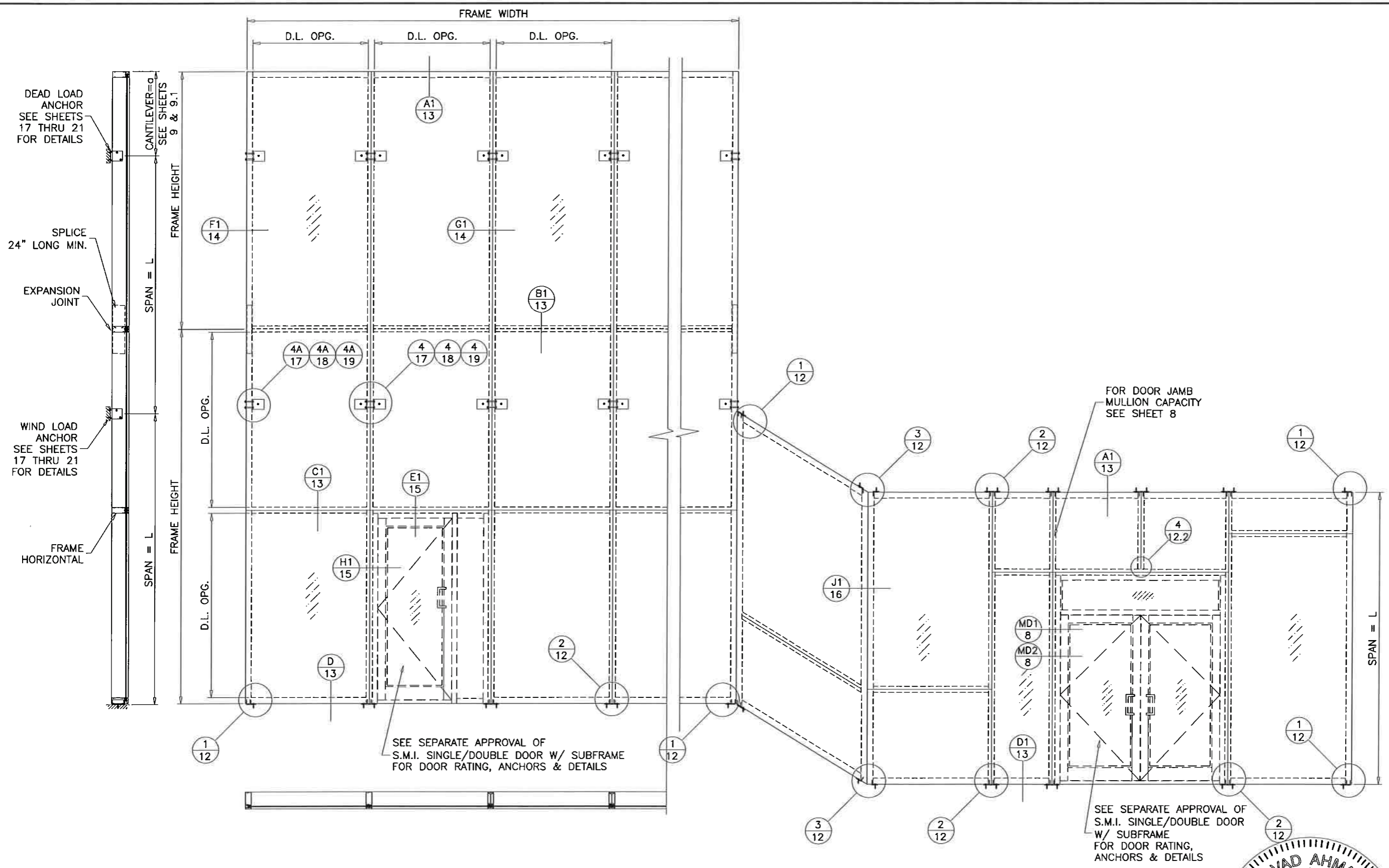
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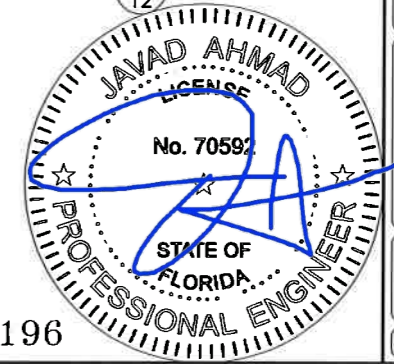
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TYPICAL ELEVATION
STRUCTURALLY GLAZED SYSTEM



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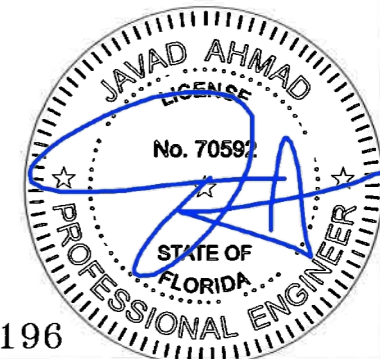
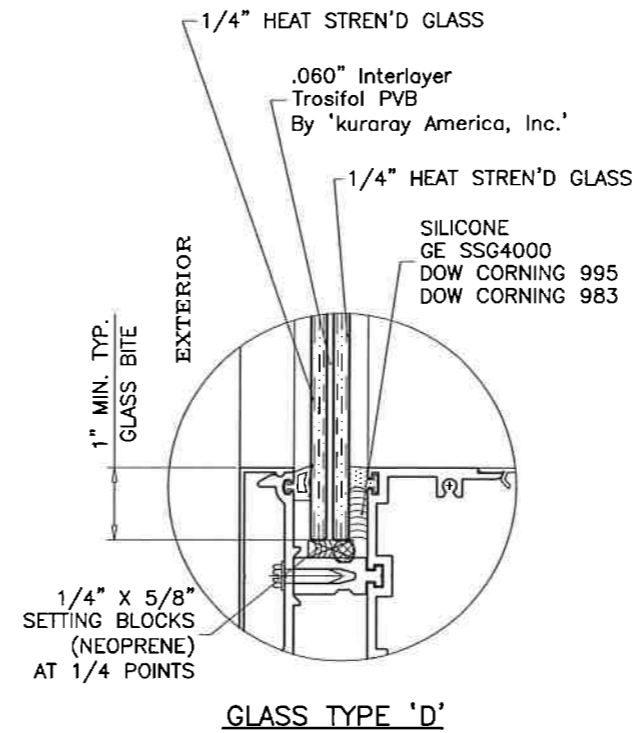
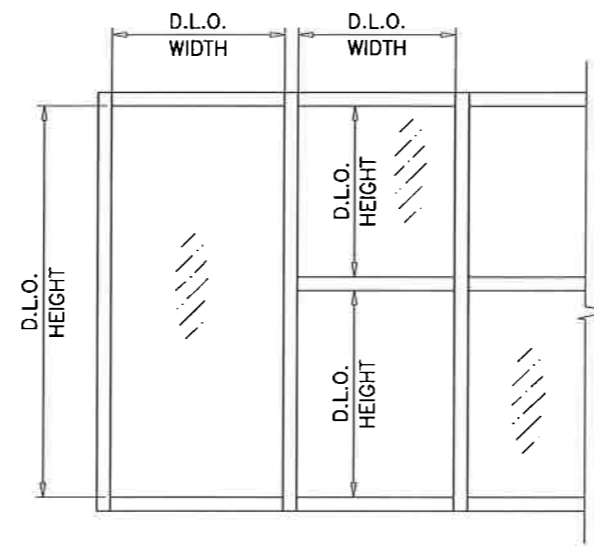
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drawing no.
W17-87
 sheet 3 of 24

GLASS LOAD CAPACITY - PSF		
NOMINAL DIMS.		GLASS TYPE 'D'
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"		131.4
66"	127.3	
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"	126.0	
36"	96"	145.0
39"		145.0
42"		145.0
45"		144.7
48"		136.7
51"		129.7
54"		126.8
57"	121.5	
57"	97-3/8"	119.5
36"	102"	145.0
39"		145.0
42"		145.0
45"		137.3
48"		129.4
51"		124.6
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 TYPE 'D'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (-)
36"	120"	145.0
39"		142.2
42"		134.6
45"		123.6
36"	126"	145.0
39"		142.8
42"		129.7
36"	132"	145.0
39"		145.0
42"		128.5
36"	138"	145.0
39"		145.0

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



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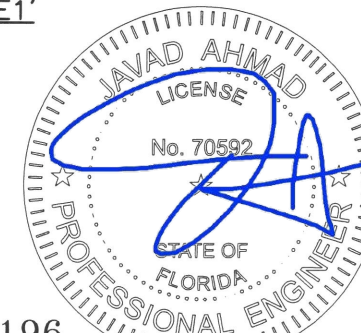
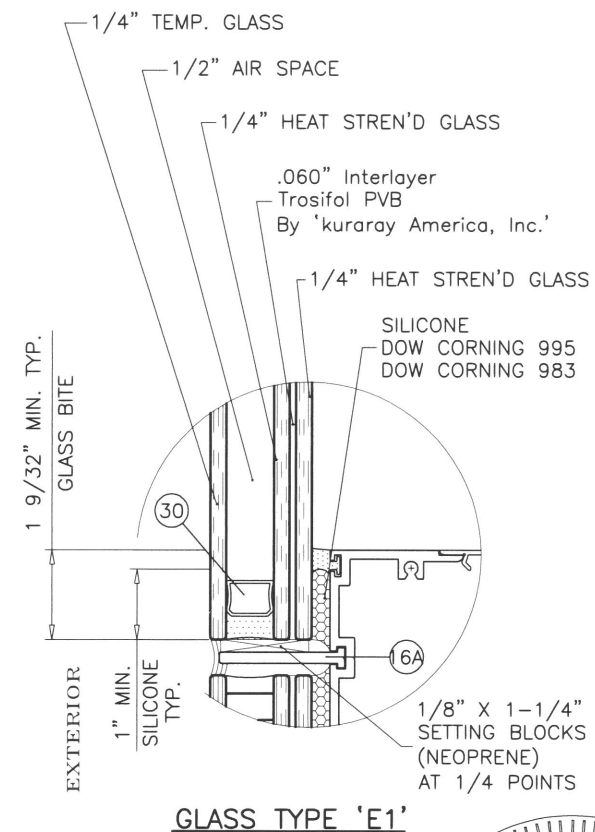
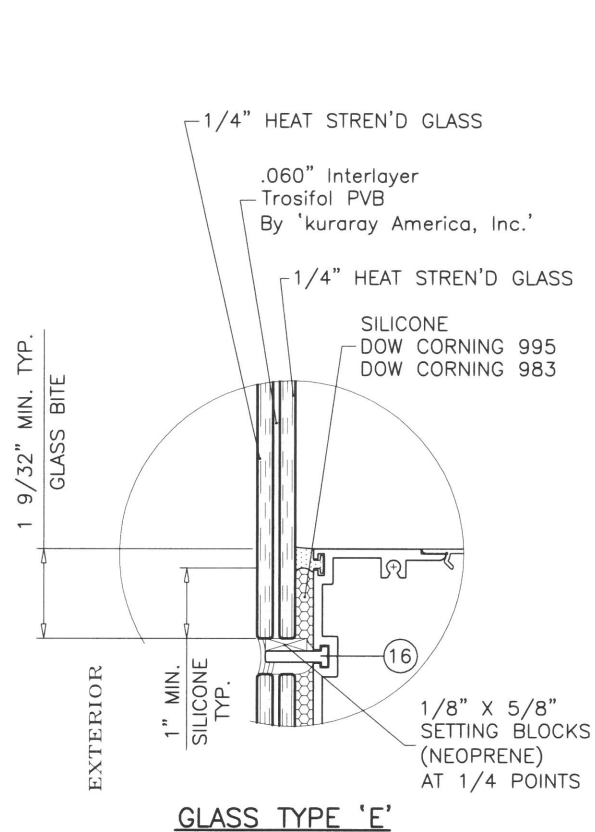
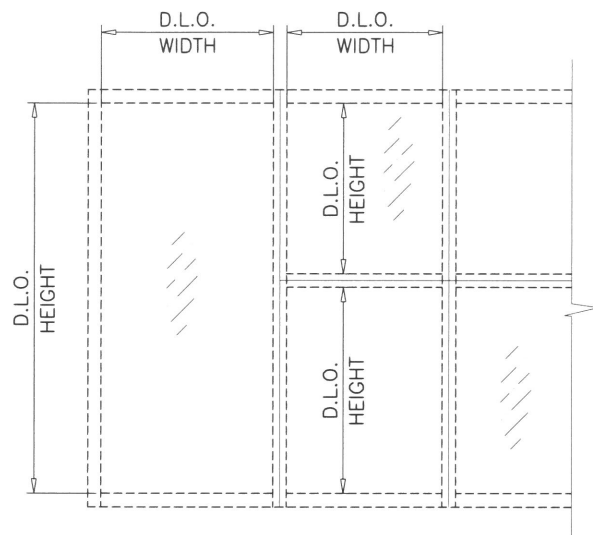
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date: 10-06-17
 scale: 3/8" = 1"
 dr. by: TARIQ
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 drawing no.
W17-87
 sheet 4 of 24

GLASS LOAD CAPACITY - PSF		
NOMINAL DIMS.		GLASS TYPES 'E' & 'E1'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (-)
30"	90"	100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		96.0
66"		87.3
72"		80.0
78"	73.8	
84"	68.6	
30"	96"	100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		96.0
66"		87.3
72"		80.0
78"	73.8	
30"	102"	100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		96.0
66"		87.3
72"		80.0
30"	108"	100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		96.0
66"		87.3
30"		114"
36"	100.0	
42"	100.0	
48"	100.0	
54"	100.0	
60"	96.0	
66"	87.3	
30"	120"	
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		96.0

GLASS LOAD CAPACITY - PSF		
NOMINAL DIMS.		GLASS TYPES 'E' & 'E1'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (-)
30"	126"	100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
30"	132"	100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
30"	138"	100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
30"	144"	100.0
36"		100.0
42"		100.0
48"		100.0

NOTE:
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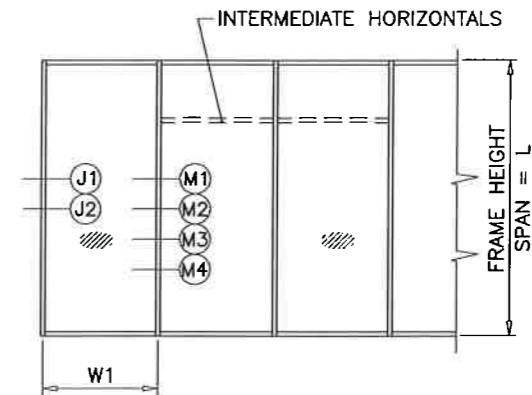
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scale:	3/8" = 1"			
dr. by:	TARIQ			
chk. by:				
drawing no.	W17-87			
sheet	5 of 24			

8-1/4" JAMB LOAD CAPACITY - PSF WITH OR W/O INTERMEDIATE HORIZONTALS				
NOMINAL DIMS.		JAMB		
WIDTH (W)	FRAME HEIGHT	'J5' EXT. (+) INT. (-)	'J6' EXT. (+) INT. (-)	'J7' 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	

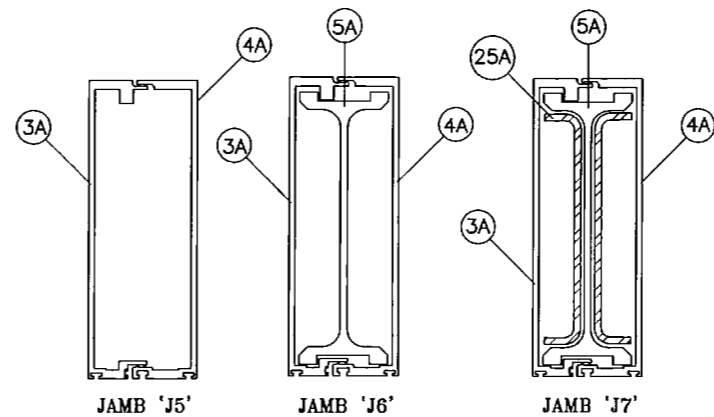
8-1/4" JAMB LOAD CAPACITY - PSF WITH OR W/O INTERMEDIATE HORIZONTALS				
NOMINAL DIMS.		JAMB		
WIDTH (W)	FRAME HEIGHT	'J5' EXT. (+) INT. (-)	'J6' EXT. (+) INT. (-)	'J7' EXT. (+) INT. (-)
36"	144"	100.0	100.0	100.0
42"		100.0	100.0	100.0
48"		100.0	100.0	100.0
54"		100.0	100.0	100.0
60"		100.0	100.0	100.0
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' EXT. (+) INT. (-)	'J6' EXT. (+) INT. (-)	'J7' 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.

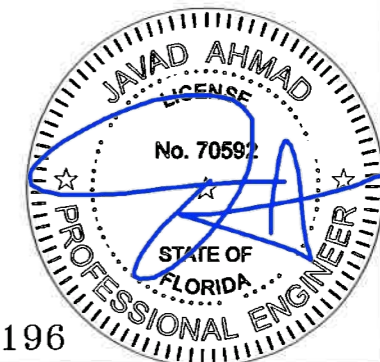
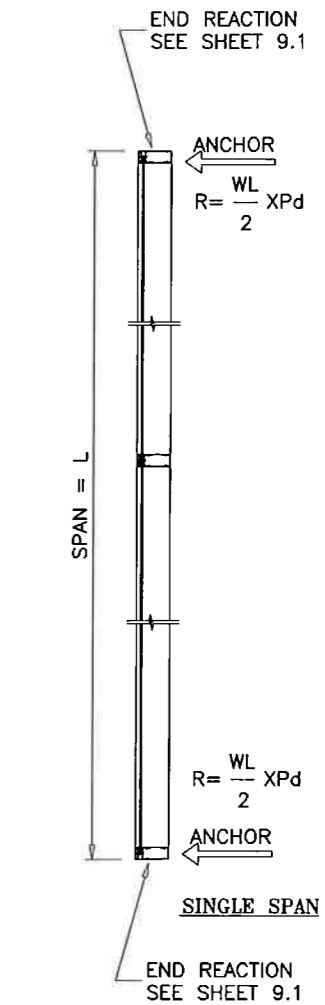


WIDTH (W) = W1
AT FRAME JAMB



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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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL (305) 262-6978 FAX (305) 264-8100
COMP-ANL\W17-87GTE

SERIES-2047 ALUM CURTAIN WALL SYSTEM (S.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

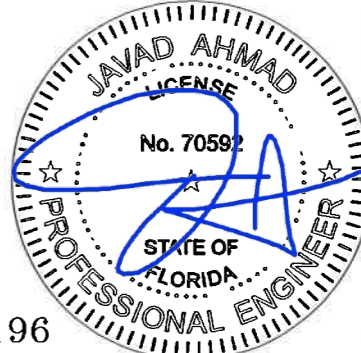
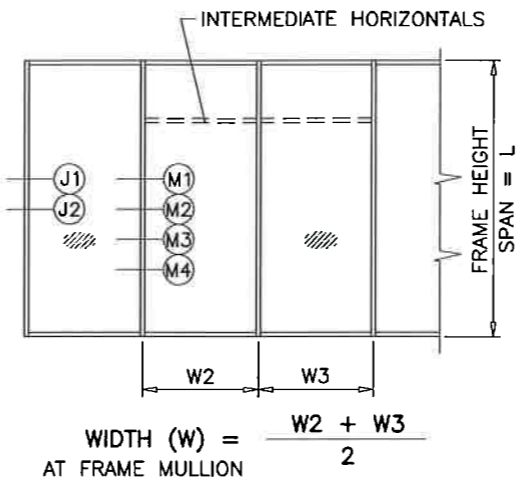
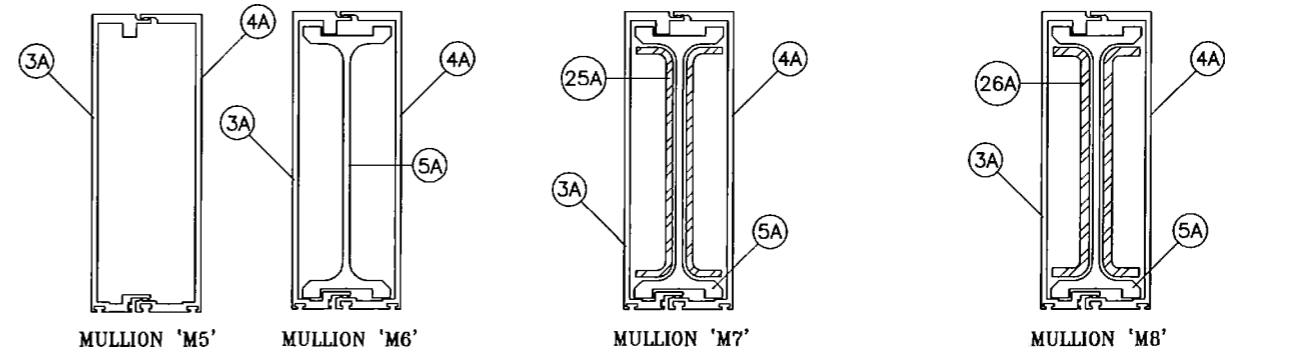
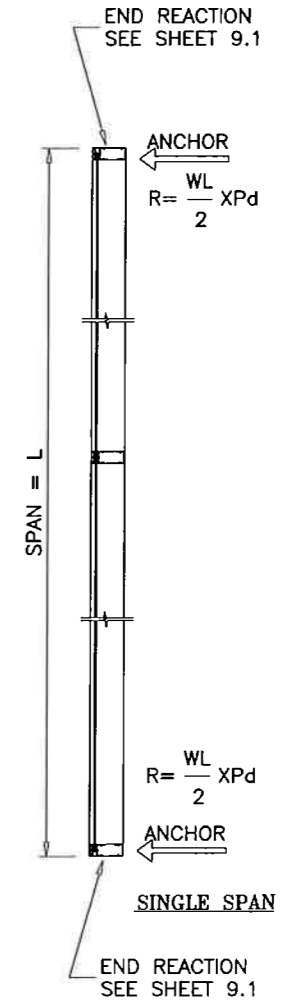
date: 10-06-17
scale: -
dr. by: TARIQ
chk. by:
drawing no.
W17-87
sheet 7 of 24

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
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
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
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
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
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
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
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
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
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
84"		-	66.9	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
84"		-	58.8	97.0	100.0
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
84"		-	52.1	85.9	95.3

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
84"		-	46.5	76.6	85.0
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
84"		-	41.7	68.8	76.3
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
84"		-	37.6	62.1	68.9

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



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revisions:	no.	date	description
date:	10-06-17	scale:	-
dr. by:	TARIQ	chk. by:	
drawing no.	W17-87		
sheet	7.1 of 24		

FL #16196

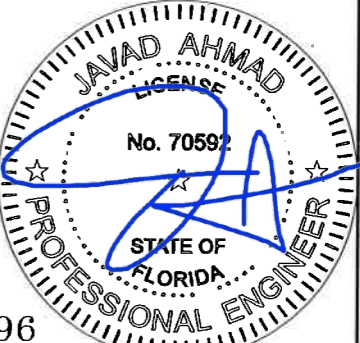
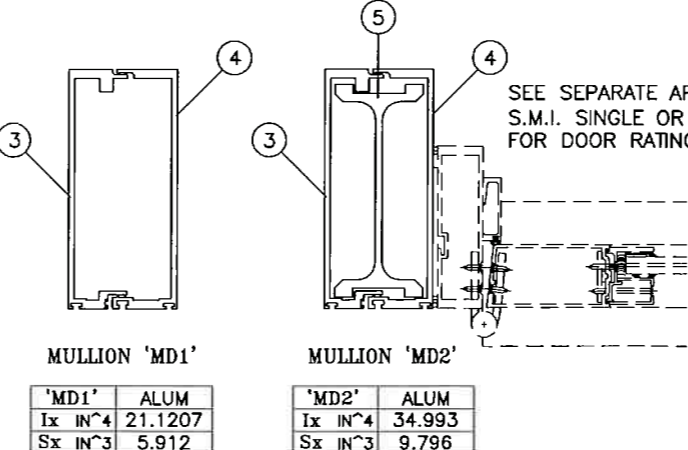
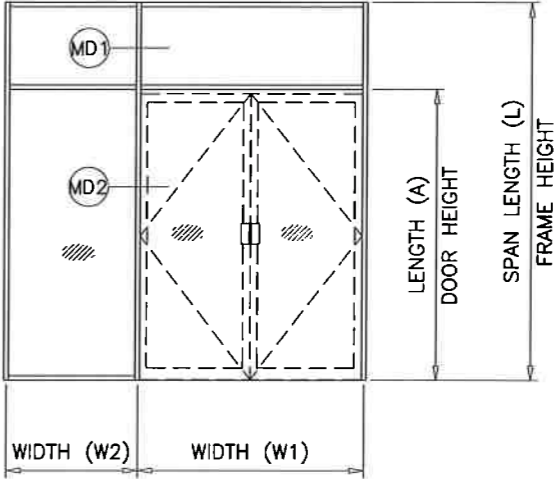
6-5/8" DOOR MULLION LOAD CAPACITY - PSF					
NOMINAL DIMS.				MULLION 'MD1'	MULLION 'MD2'
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	SPAN LENGTH (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
74-5/8"	30"	84"	108"	90.0	90.0
	36"			90.0	90.0
	42"			90.0	90.0
	48"			90.0	90.0
	54"			90.0	90.0
	60"			90.0	90.0
	66"			90.0	90.0
86-5/8"	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
74-5/8"	30"	84"	120"	90.0	90.0
	36"			90.0	90.0
	42"			90.0	90.0
	48"			90.0	90.0
	54"			88.0	90.0
	60"			83.9	90.0
	66"			80.1	90.0
86-5/8"	30"	84"	120"	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"	84"	132"	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"
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"	30"	84"	144"	51.5	83.8
	36"			64.9	90.0
	42"			61.7	90.0
48"				58.8	90.0
				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"	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
74-5/8"	30"	96"	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
	66"			82.9	90.0
86-5/8"	30"	96"	120"	90.0	90.0
	36"			90.0	90.0
	42"			90.0	90.0
	48"			88.6	90.0
	54"			84.3	90.0
	60"			80.5	90.0
	66"			77.0	90.0
74-5/8"	30"	96"	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
	66"			65.6	90.0
86-5/8"	30"	96"	132"	80.9	90.0
	36"			76.7	90.0
	42"			72.8	90.0
	48"			69.3	90.0
	54"			66.2	90.0
	60"			63.3	90.0
	74-5/8"			30"	96"
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"		53.5	90.0		
86-5/8"	30"	96"	144"	62.2	90.0
	36"			59.1	90.0
	42"			56.4	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"			90.0	90.0
	66"			88.4	90.0
86-5/8"	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"			86.8	90.0
	66"			82.6	90.0
74-5/8"	30"	108"	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
	66"			67.9	90.0
86-5/8"	30"	108"	132"	86.0	90.0
	36"			81.1	90.0
	42"			76.7	90.0
	48"			72.8	90.0
	54"			69.3	90.0
	60"			66.0	90.0
	74-5/8"			30"	108"
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		
66"		54.7	90.0		
86-5/8"	30"	108"	144"	67.7	90.0
	36"			64.1	90.0
	42"			60.8	90.0
48"				57.9	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"	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"	30"	108"	132"	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"			30"	108"
36"		74.6	90.0		
42"		70.1	90.0		
48"		66.1	90.0		
54"		62.6	90.0		
60"		59.4	90.0		
66"		56.1	90.0		
86-5/8"	30"	108"	144"	72.0	90.0
	36"			67.8	90.0
	42"			64.1	90.0

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



FL #16196

afC

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 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
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 COMP-ANL\W17-87GTE

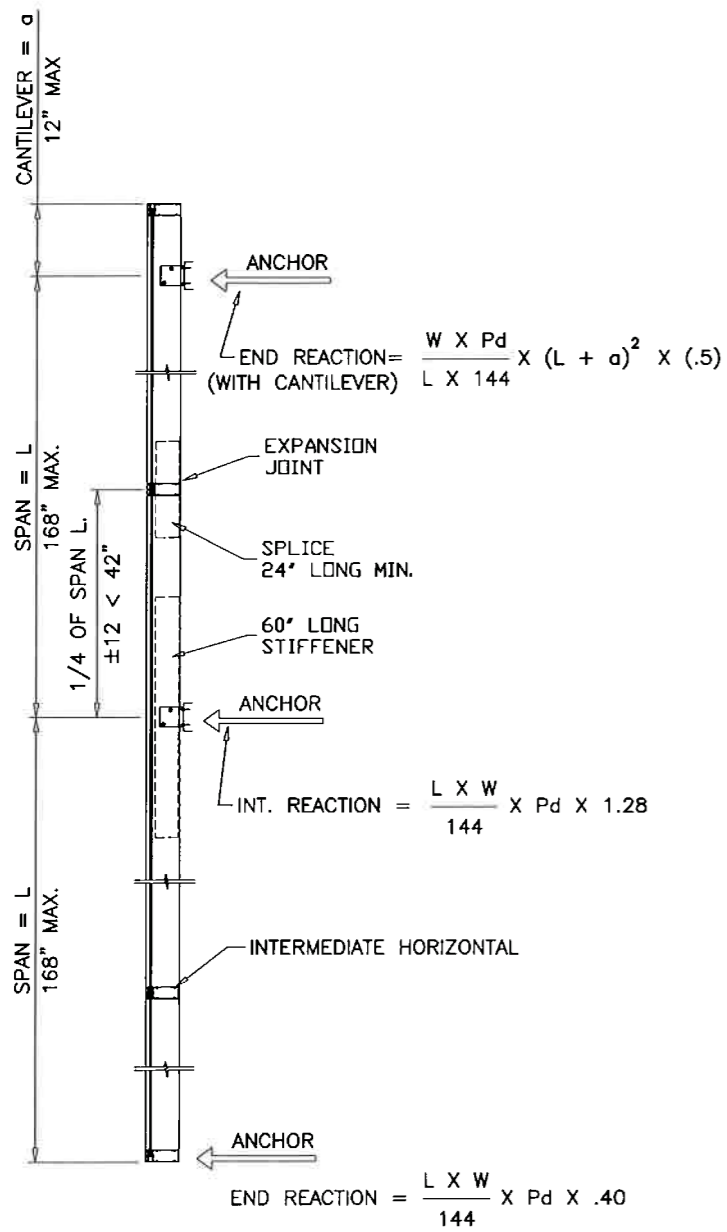
SERIES-2047 ALUM CURTAIN WALL SYSTEM (S.M.I.)

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revisions:		
no.	date	description

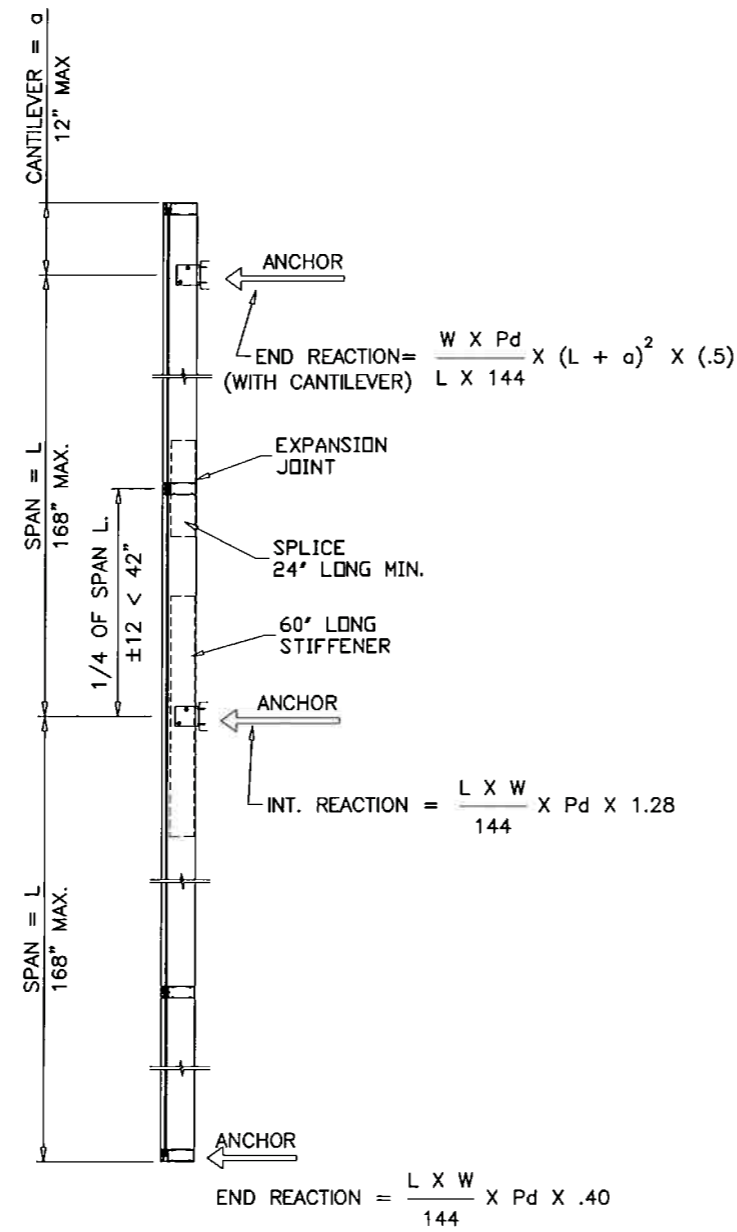
date: 10-06-17
 scale: -
 dr. by: TARIQ
 chk. by:

drawing no. **W17-87**
 sheet 8 of 24



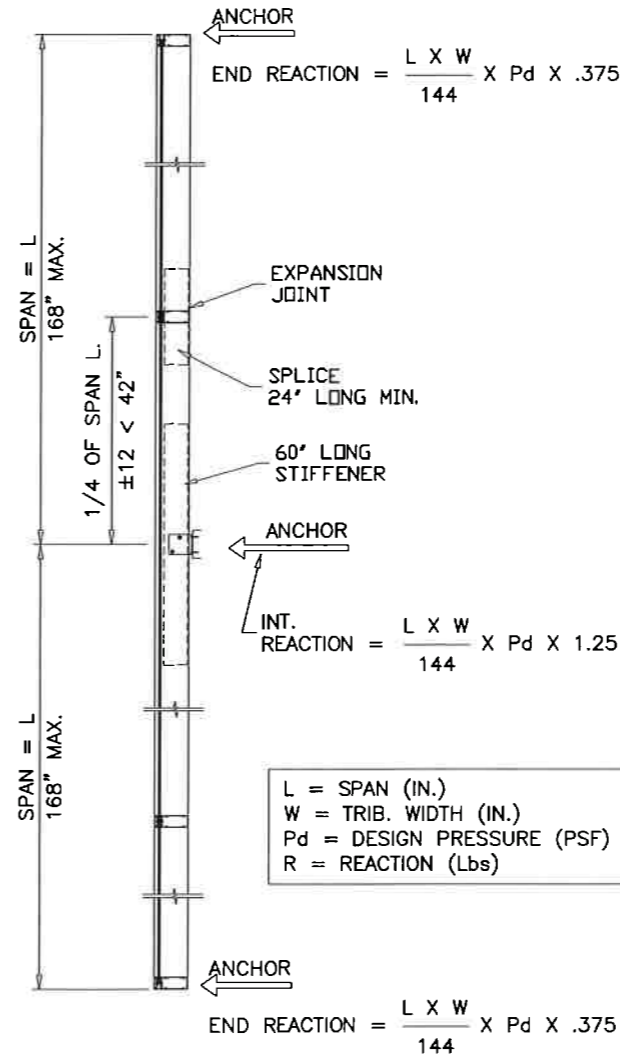
MULTIPLE SPANS

MULTIPLE SPANS WITH OR WITHOUT CANTILEVER
USE TABLE ON SHEET 6.



TWO SPANS

TWO SPANS WITH CANTILEVER, WITH
AND WITHOUT SPLICE/EXPANSION JOINT
USE TABLE ON SHEET 6.

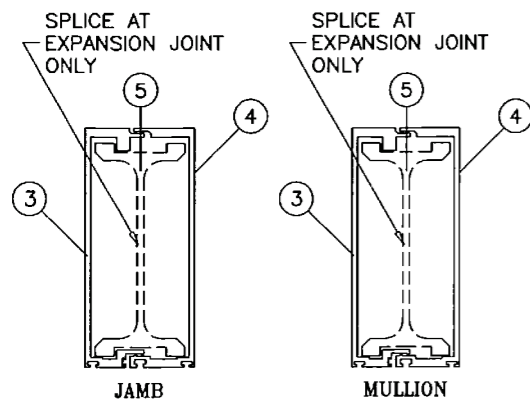


TWO SPANS

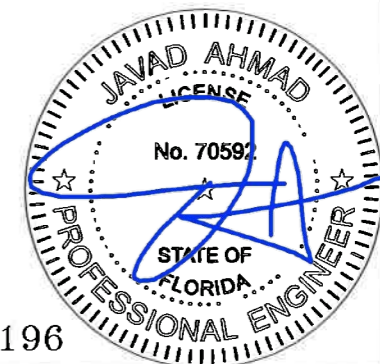
TWO SPANS WITHOUT CANTILEVER, WITH
AND WITHOUT SPLICE/EXPANSION JOINT
USE TABLE ON SHEET 6.

L = SPAN (IN.)
W = TRIB. WIDTH (IN.)
Pd = DESIGN PRESSURE (PSF)
R = REACTION (Lbs)

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.



6-5/8" MULLION SYSTEM

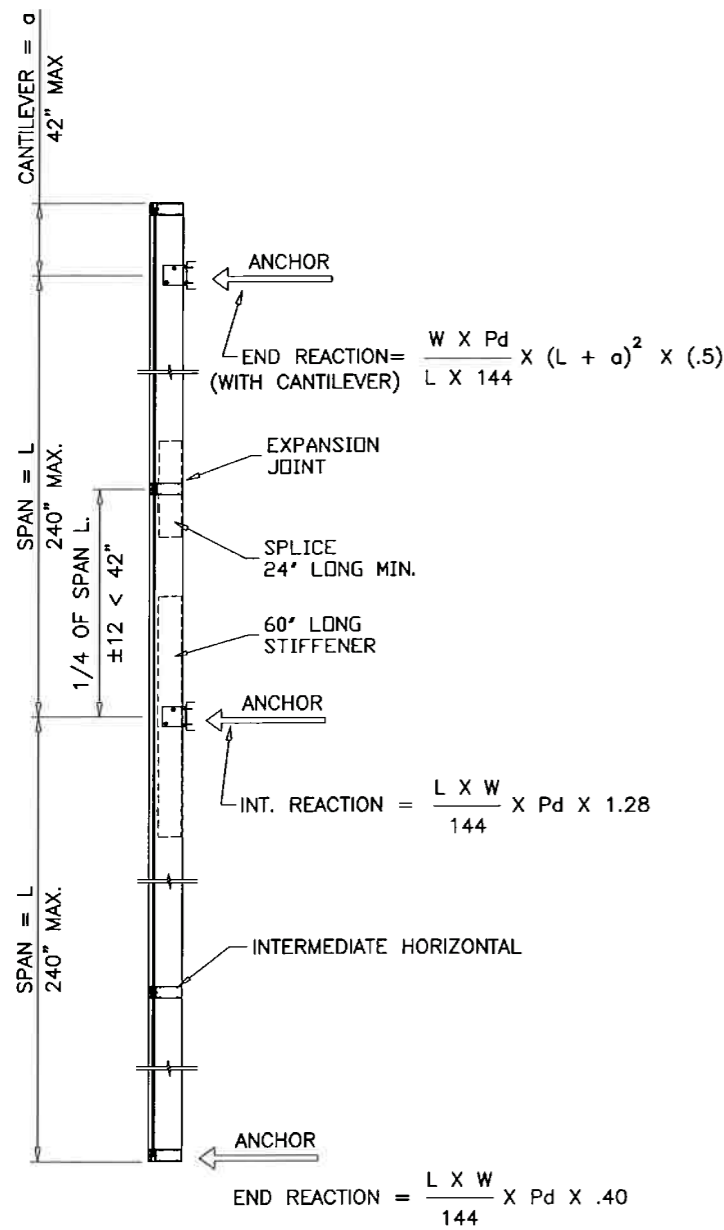


FL #16196

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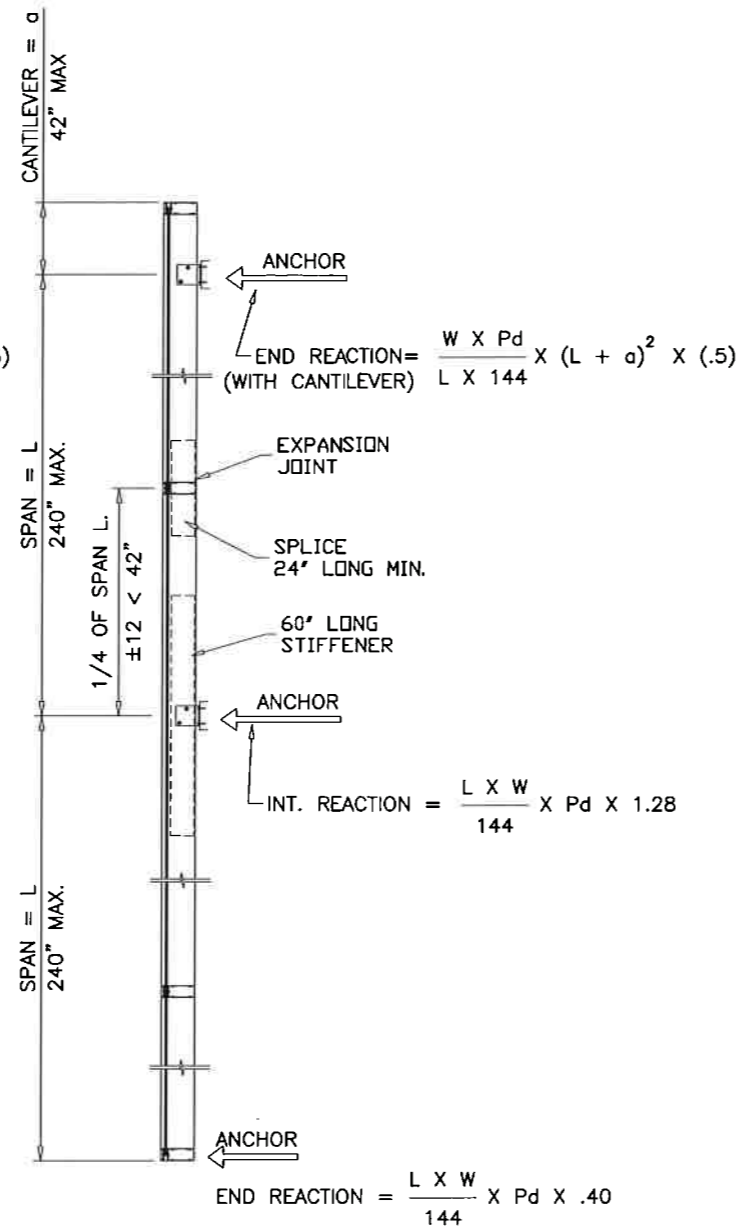
SERIES-2047 ALUM CURTAIN WALL SYSTEM (S.M.I.)
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8321 N.W. 70th Street
Miami, FL. 33166
Tel. (305) 594-4321 Fax. (305) 599-2730

revisions:	no.	date	description
date:	10-06-17	scale:	-
dr. by:	TARIQ	chk. by:	
drawing no.	W17-87		
sheet	9 of 24		



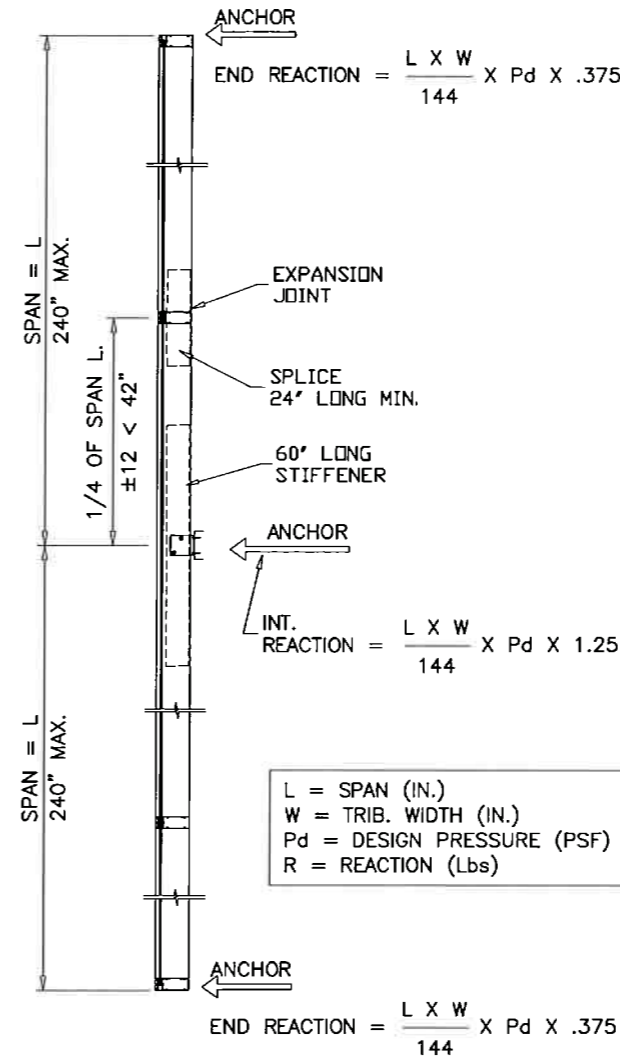
MULTIPLE SPANS

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



TWO SPANS

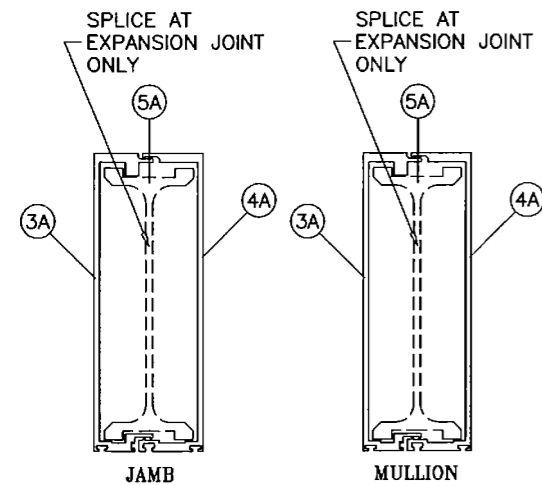
TWO SPANS WITH CANTILEVER, WITH
AND WITHOUT SPLICE/EXPANSION JOINT
USE TABLE ON SHEETS 7 & 7.1.



TWO SPANS

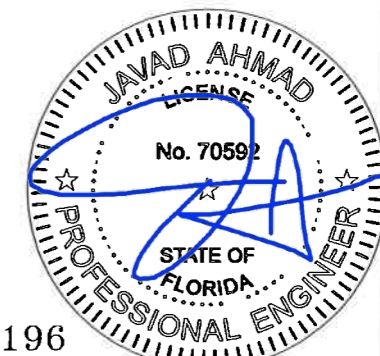
TWO SPANS WITHOUT CANTILEVER, WITH
AND WITHOUT SPLICE/EXPANSION JOINT
USE TABLE ON SHEETS 7 & 7.1.

L = SPAN (IN.)
W = TRIB. WIDTH (IN.)
Pd = DESIGN PRESSURE (PSF)
R = REACTION (Lbs)



8-1/4" MULLION SYSTEM

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.



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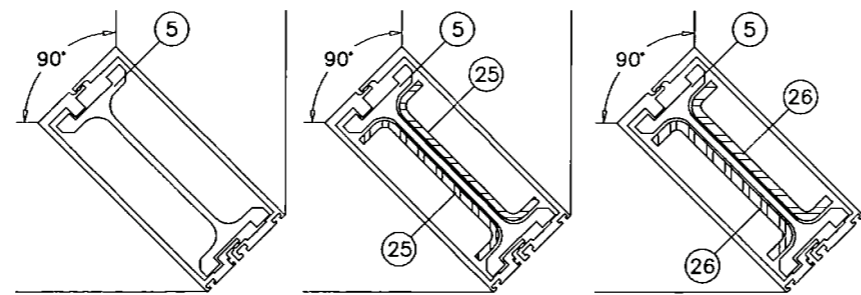
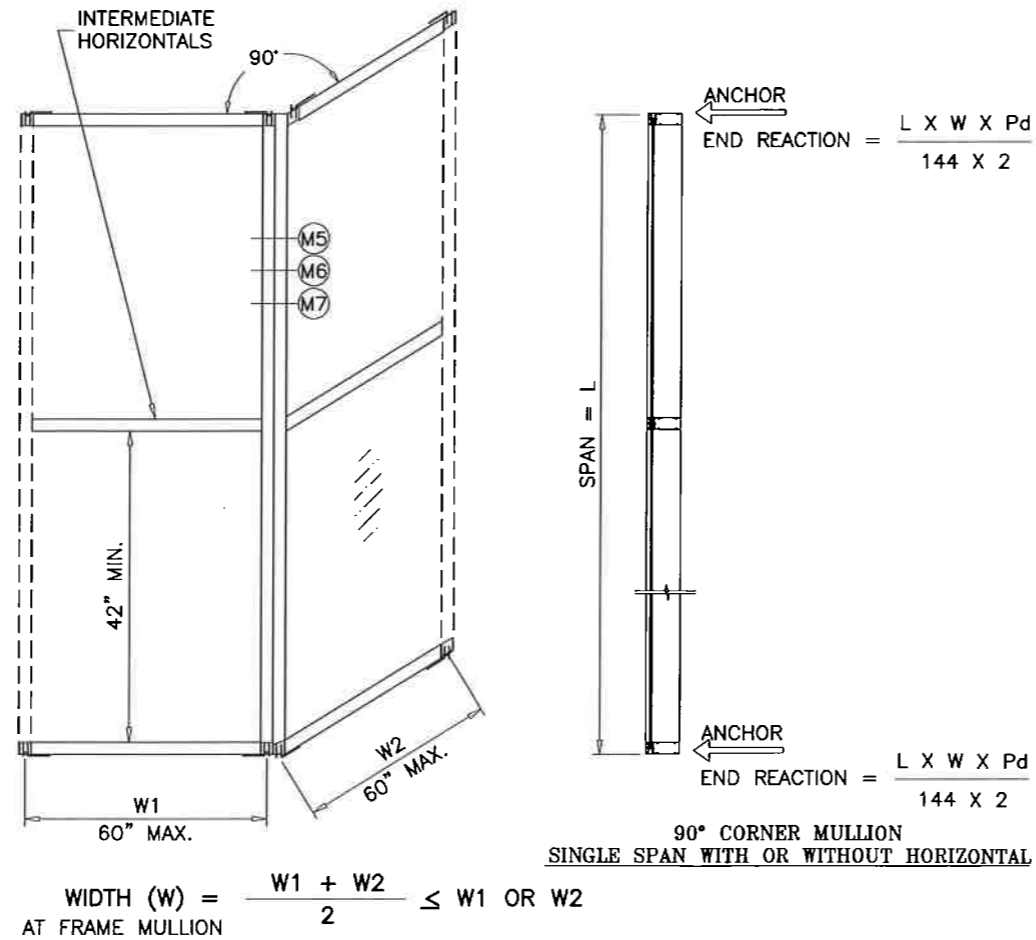
revisions:	no.	date	by	description

date: 10-06-17
scale: -
dr. by: TARIQ
chk. by:

drawing no.
W17-87

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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
78"		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
78"		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
78"		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
78"		117.5	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
78"		107.9	120.0	120.0
84"	100.2	117.0	120.0	

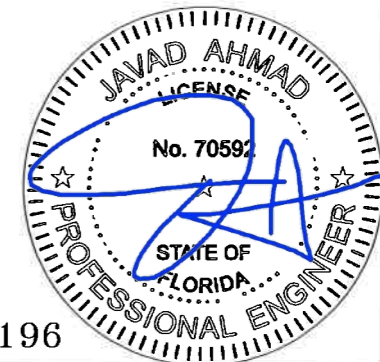


MULLION 'CM1'		MULLION 'CM2'		MULLION 'CM3'			
M5	ALUM	M6	ALUM	STEEL	M7	ALUM	STEEL
Ix	IN ⁴ 18.8266	Ix	IN ⁴ 18.8266	3.1668	Ix	IN ⁴ 18.8266	3.8646
Sx	IN ³ 5.7635	Sx	IN ³ 5.7635	1.4222	Sx	IN ³ 5.7635	1.7509
Iy	IN ⁴ 17.8252	Iy	IN ⁴ 17.8252	3.1668	Iy	IN ⁴ 17.8252	3.8646
Sy	IN ³ 5.419	Sy	IN ³ 5.419	1.4222	Sy	IN ³ 5.419	1.7509

REINF. LENGTH = MULL LENGTH - 6"

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

ALL OTHER CONDITIONS TO BE
REVIEWED BY AUTHORITY HAVING
JURISDICTION.



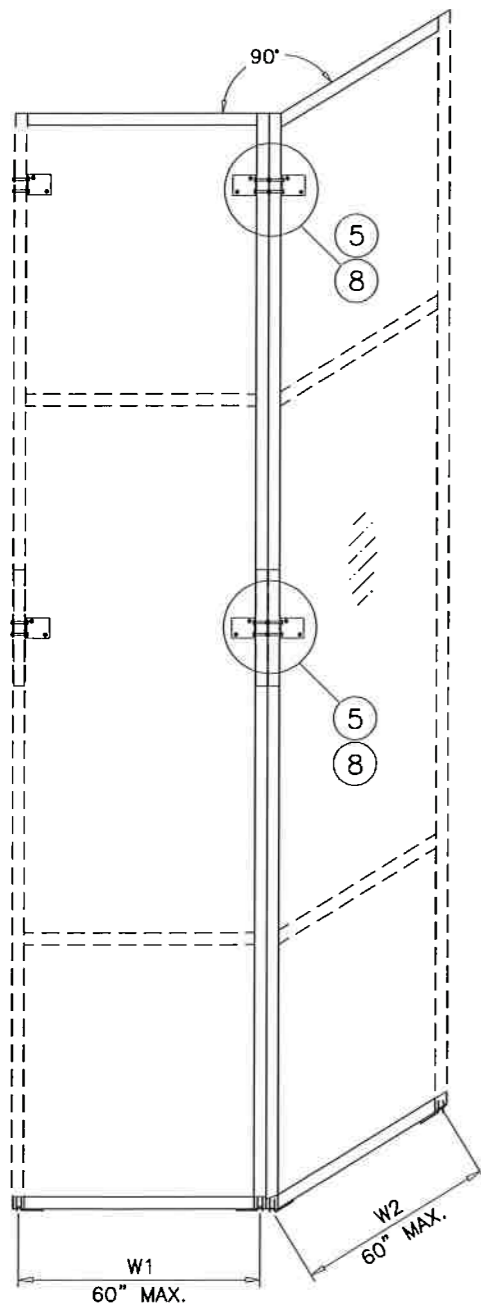
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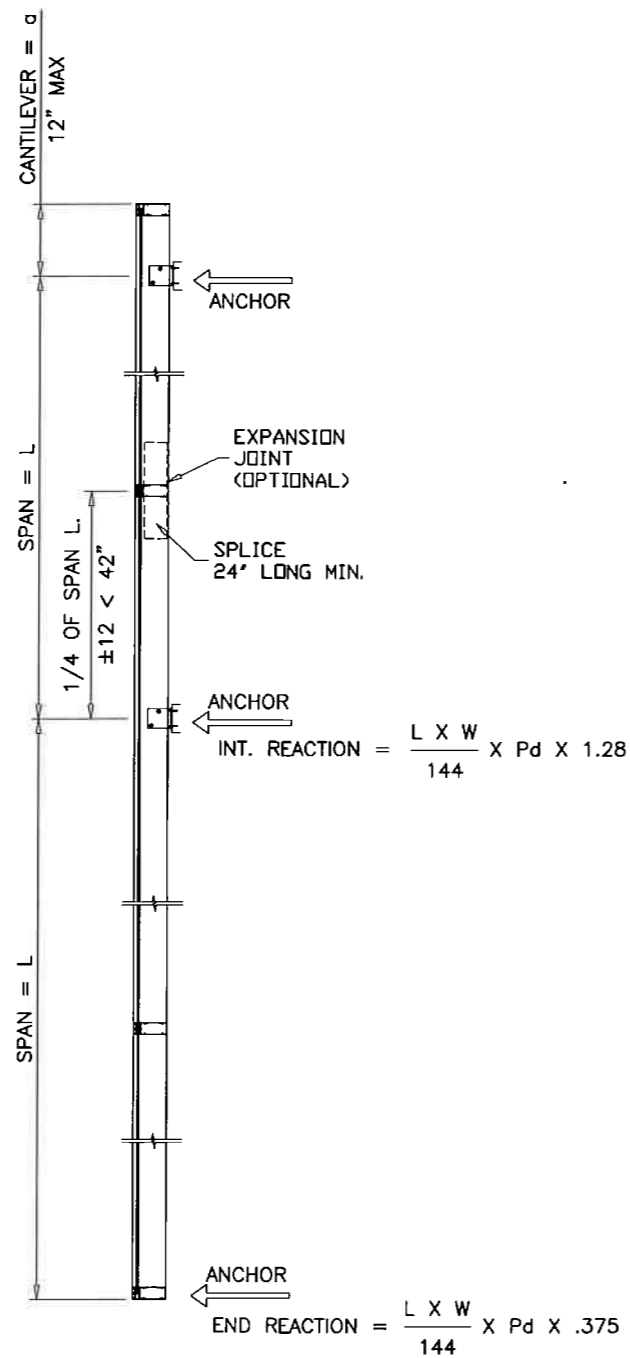
revisions:	no.	date	description

date: 10-06-17
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 drawing no.
W17-87
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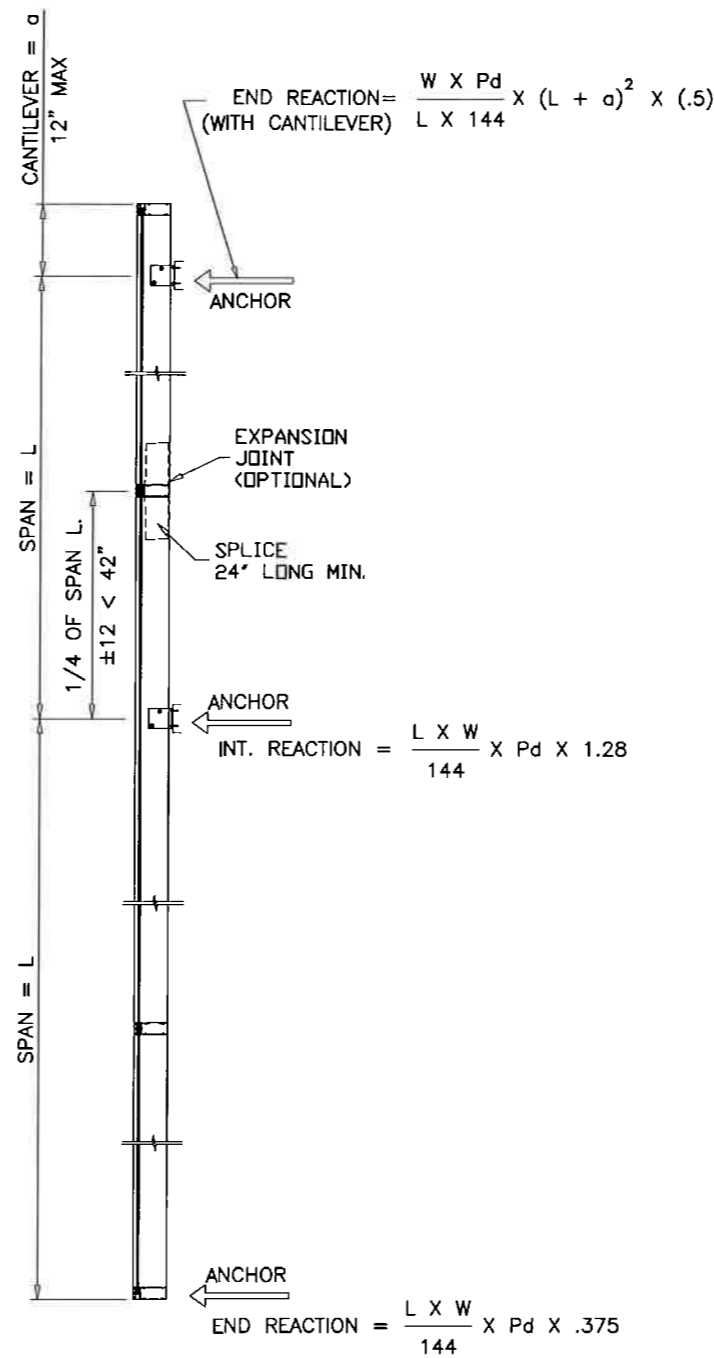
$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$

AT FRAME MULLION



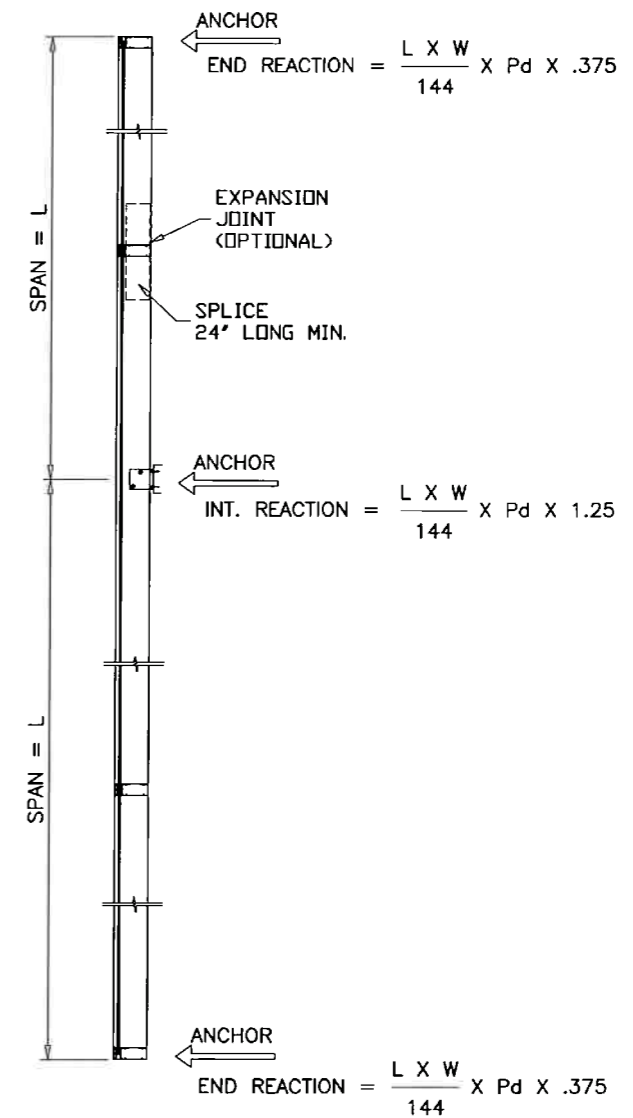
MULTIPLE SPANS

MULTIPLE SPANS WITH OR WITHOUT CANTILEVER
USE TABLE ON SHEET 10



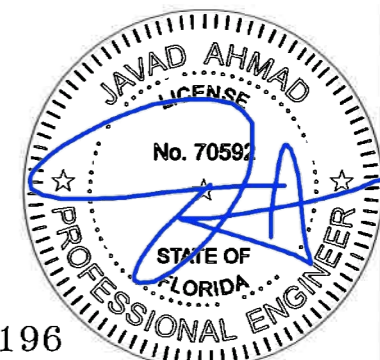
**TWO SPANS
W/ CANTILEVER**

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



**TWO SPANS
W/O CANTILEVER**

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



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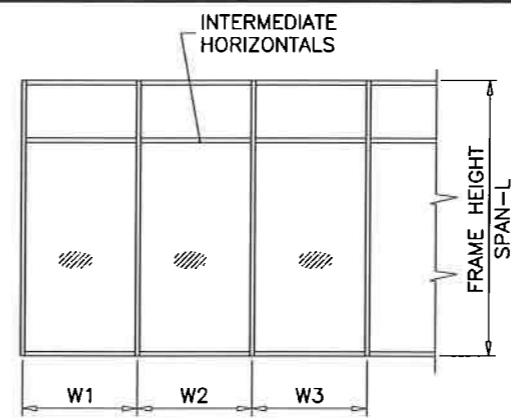
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ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)					
NOMINAL DIMS.		ANCHOR TYPES			
WIDTH (W)	FRAME HT. SPAN-L	'A'	'AA'	'B'	'BB'
36"	96"	145.0	145.0	145.0	145.0
42"		145.0	145.0	145.0	145.0
48"		145.0	145.0	145.0	145.0
54"		145.0	145.0	145.0	145.0
60"		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	

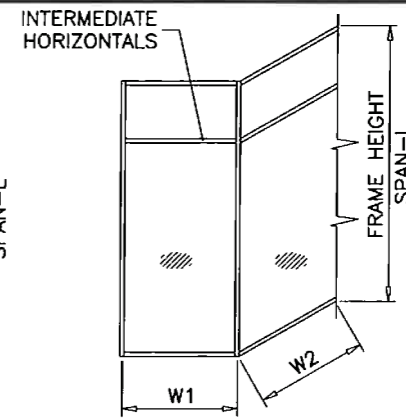
ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)					
NOMINAL DIMS.		ANCHOR TYPES			
WIDTH (W)	FRAME HT. SPAN-L	'A'	'AA'	'B'	'BB'
36"	228"	101.9	145.0	145.0	145.0
42"		87.3	145.0	130.3	145.0
48"		76.4	145.0	114.0	145.0
54"		67.9	135.9	101.3	145.0
60"		61.1	122.3	91.2	145.0
66"		55.6	111.2	82.9	145.0
72"		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)

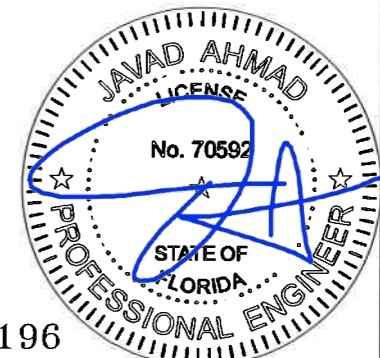
ANCHOR 'BB' (2 PER LEG)

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

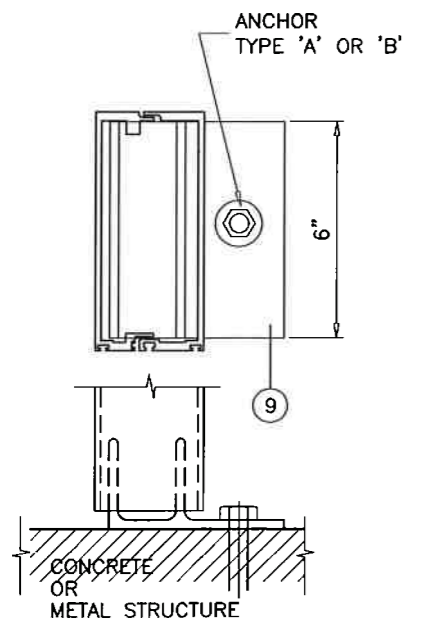


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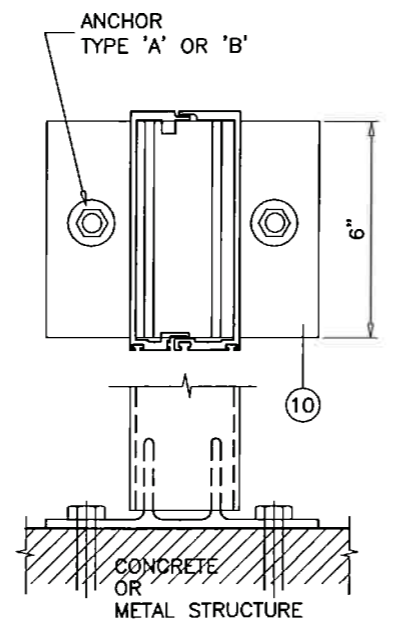
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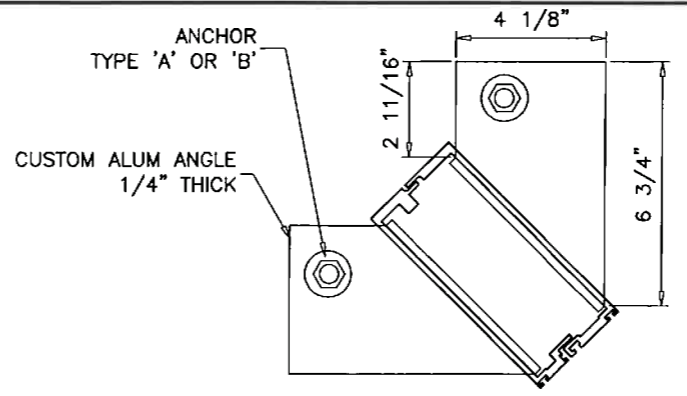
revisions:	no.	date	description
date:	10-06-17	scale:	-
dr. by:	TARIQ	chk. by:	
drawing no.	W17-87		
sheet	12 of 24		



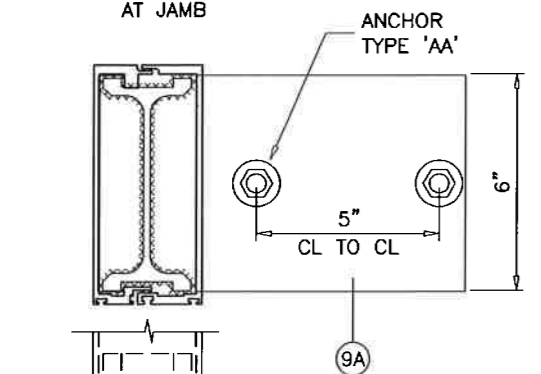
DETAIL '1'
AT JAMB



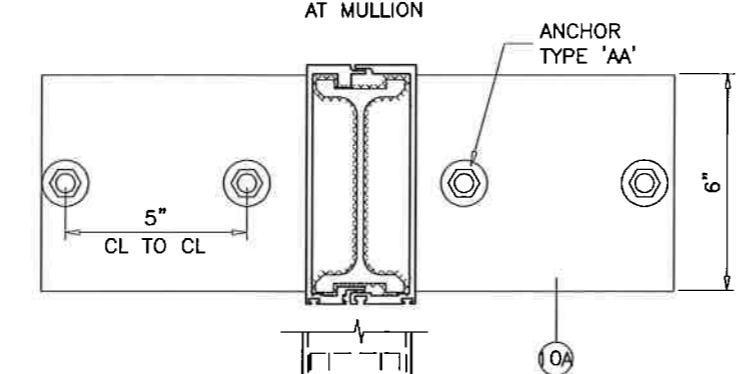
DETAIL '2'
AT MULLION



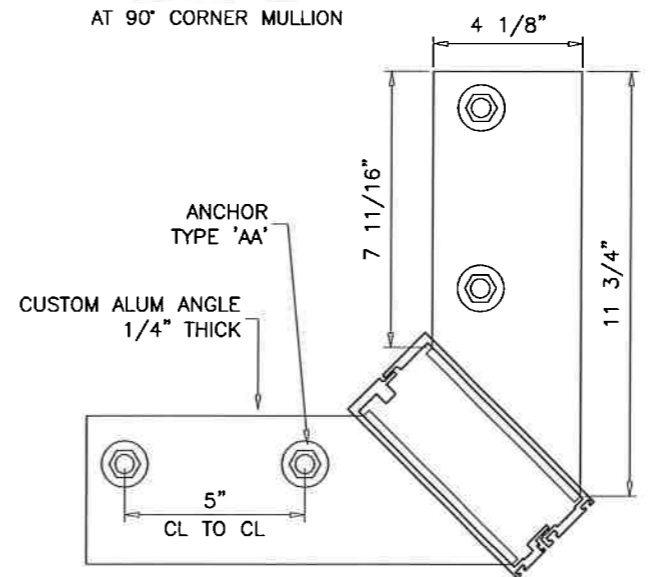
DETAIL '3'
AT 90° CORNER MULLION



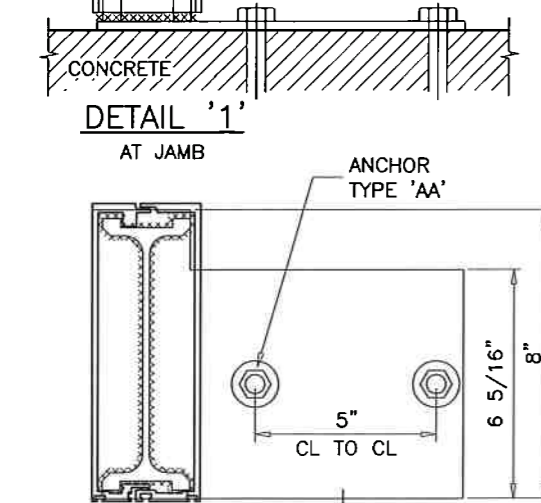
DETAIL '1'
AT JAMB



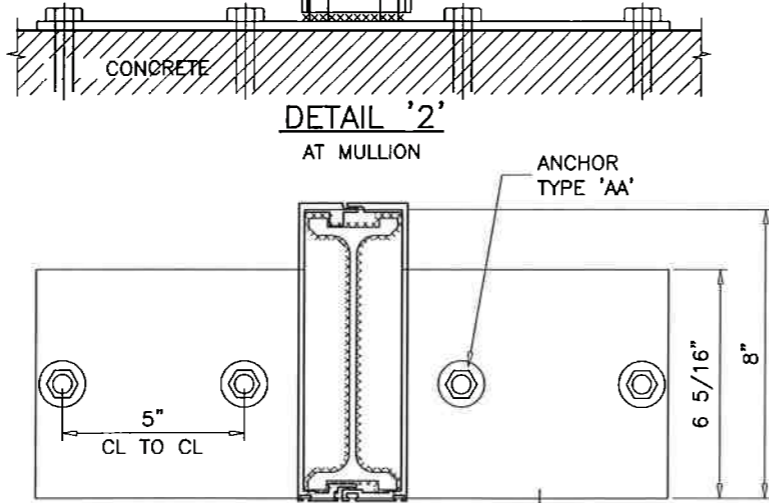
DETAIL '2'
AT MULLION



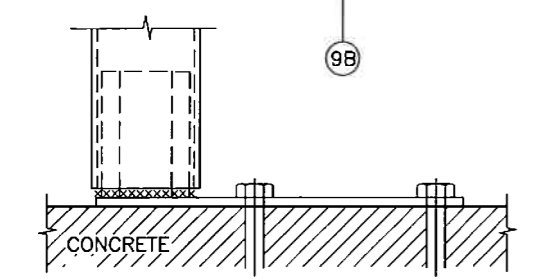
DETAIL '3'
AT 90° CORNER MULLION



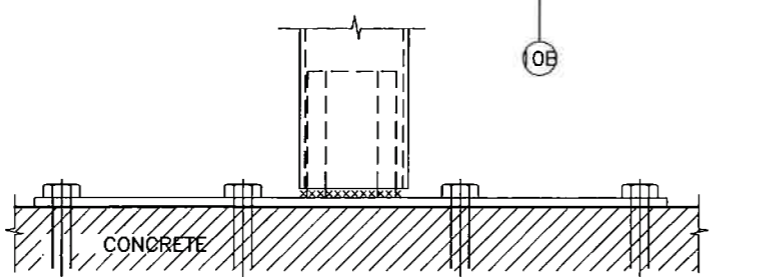
DETAIL '1'
AT JAMB



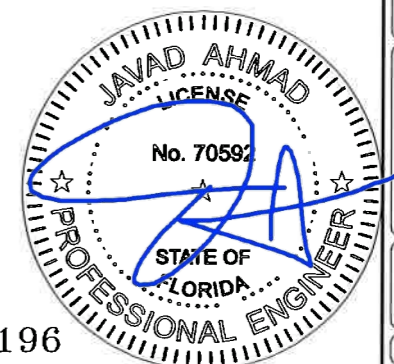
DETAIL '2'
AT MULLION



DETAIL '1'
AT JAMB



DETAIL '2'
AT MULLION



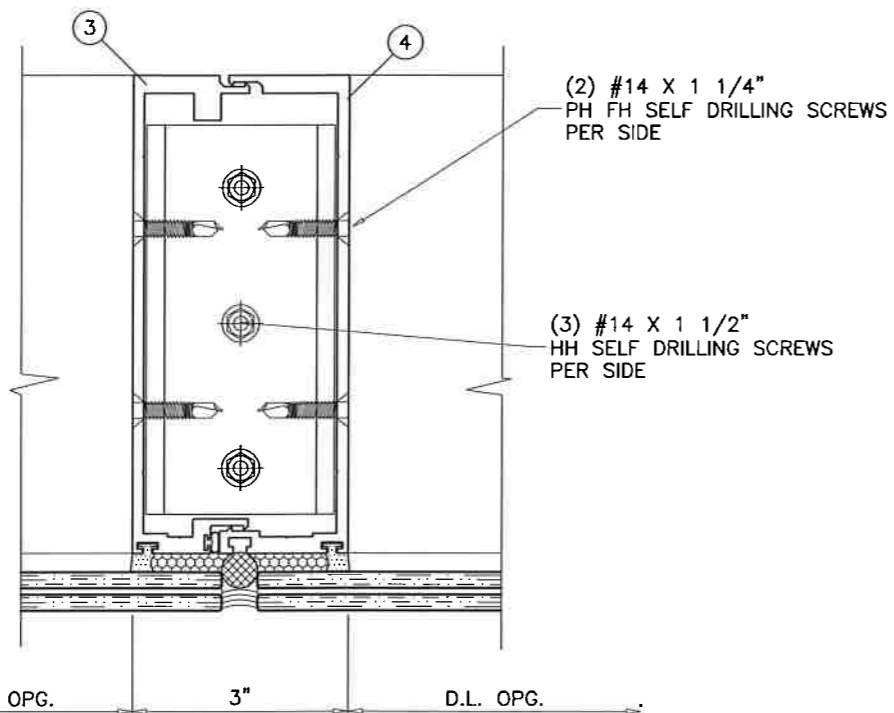
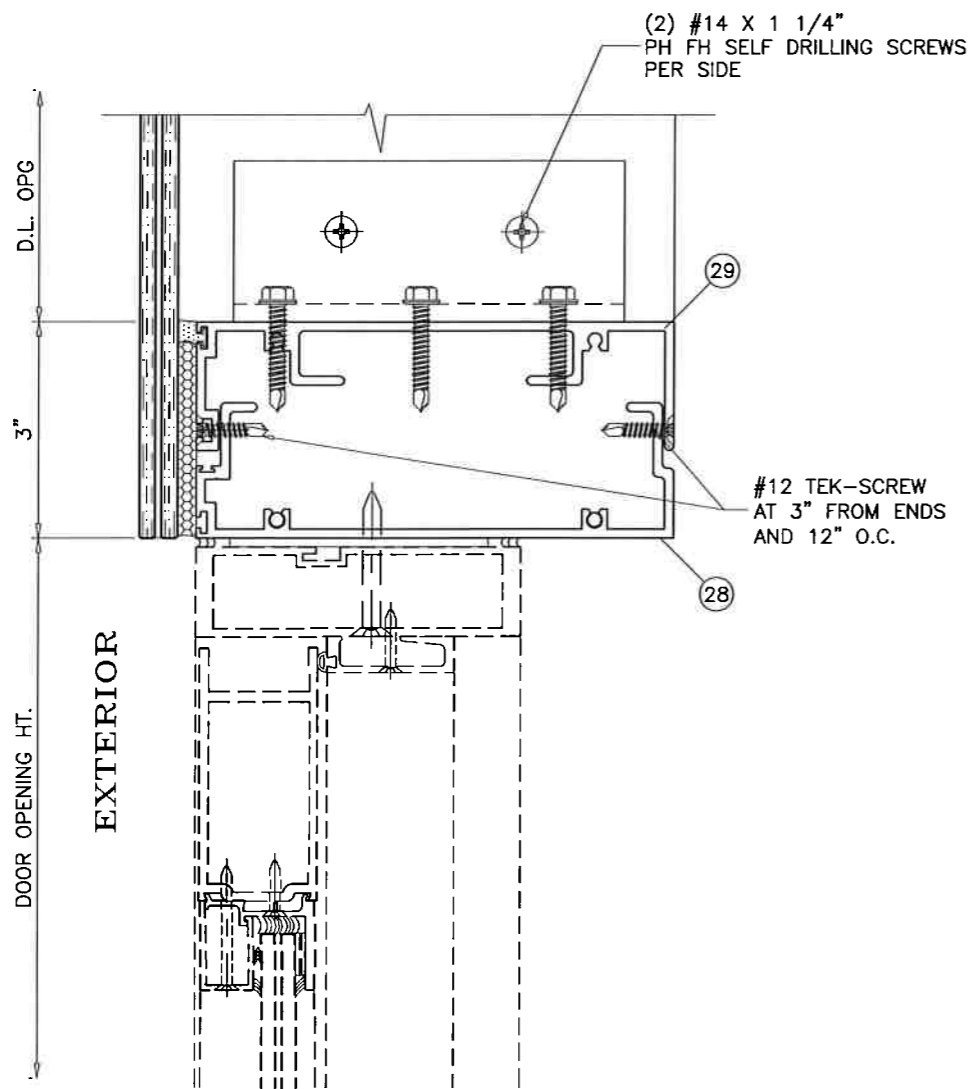
FL #16196

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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 262-6978 FAX. (305) 262-6978
COMP-ANL\W17-87GTE

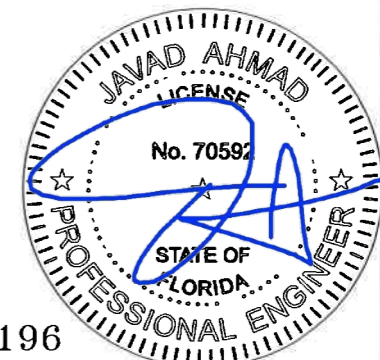
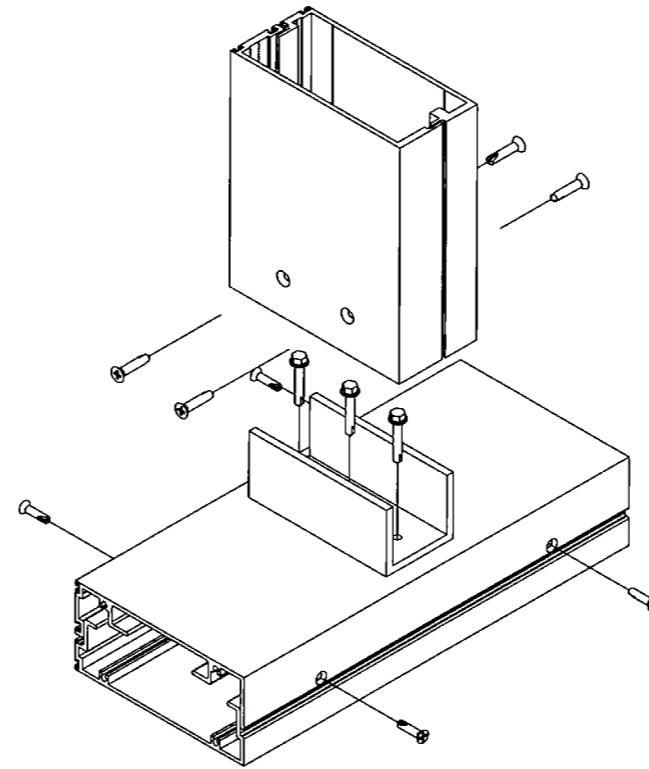
SERIES-2047 ALUM CURTAIN WALL SYSTEM (S.M.I.)
Glass Tech Engineering, Inc.
8321 N.W. 70th Street
Miami, FL. 33166
Tel. (305) 594-4321 Fax. (305) 599-2730

revisions:	no	date	description

date: 10-06-17
scale: -
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drawing no.
W17-87
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DETAIL '4'
AT MULLION ABOVE DOOR



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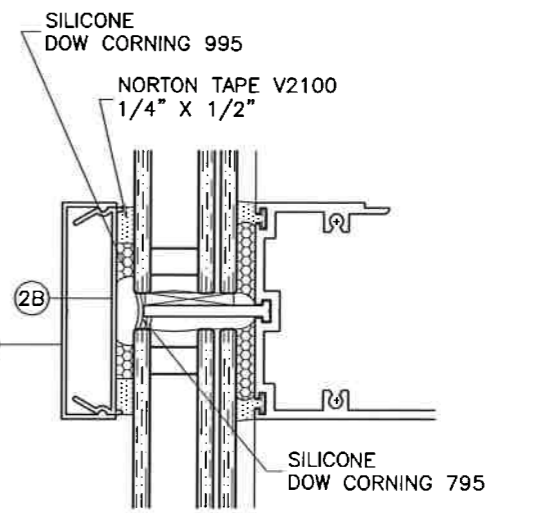
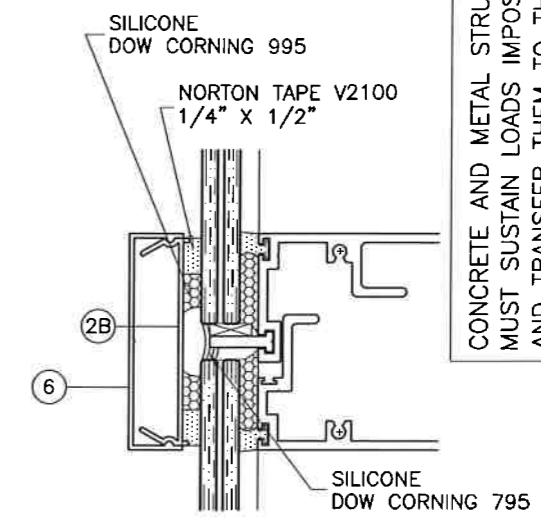
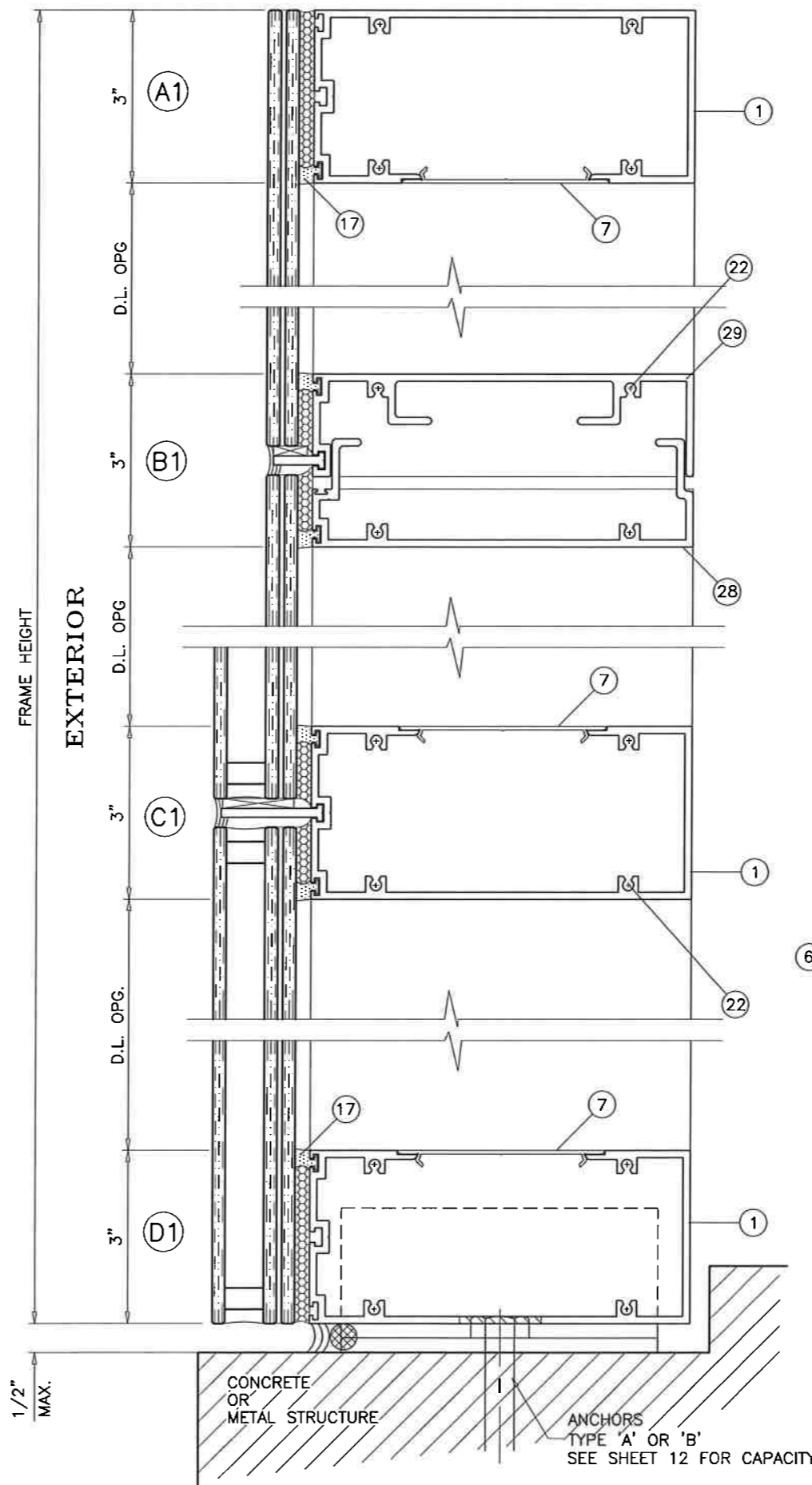
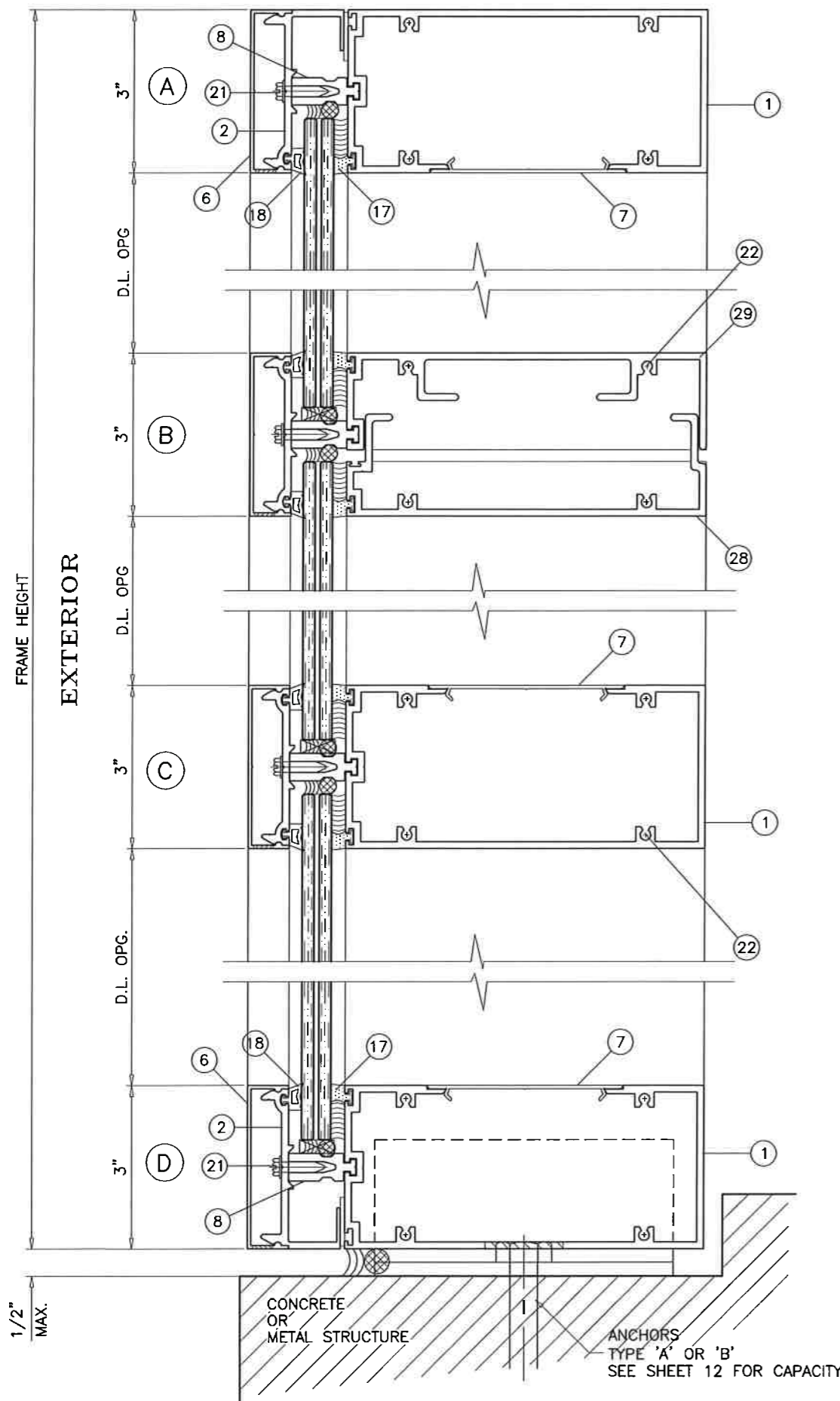
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revisions:	
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chk. by:

drawing no.
W17-87

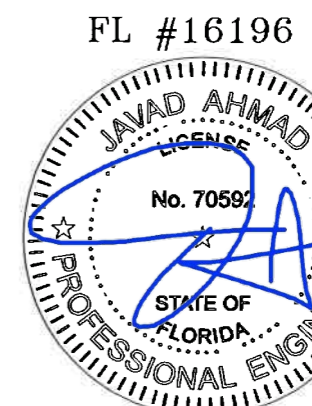
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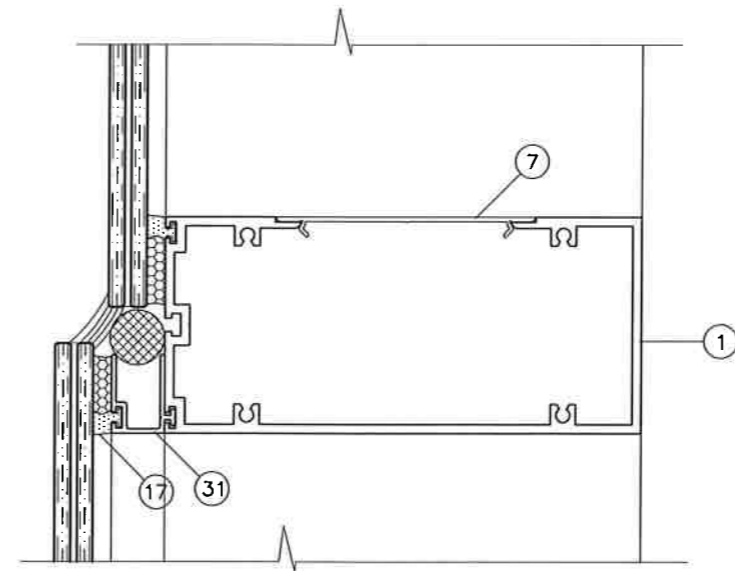
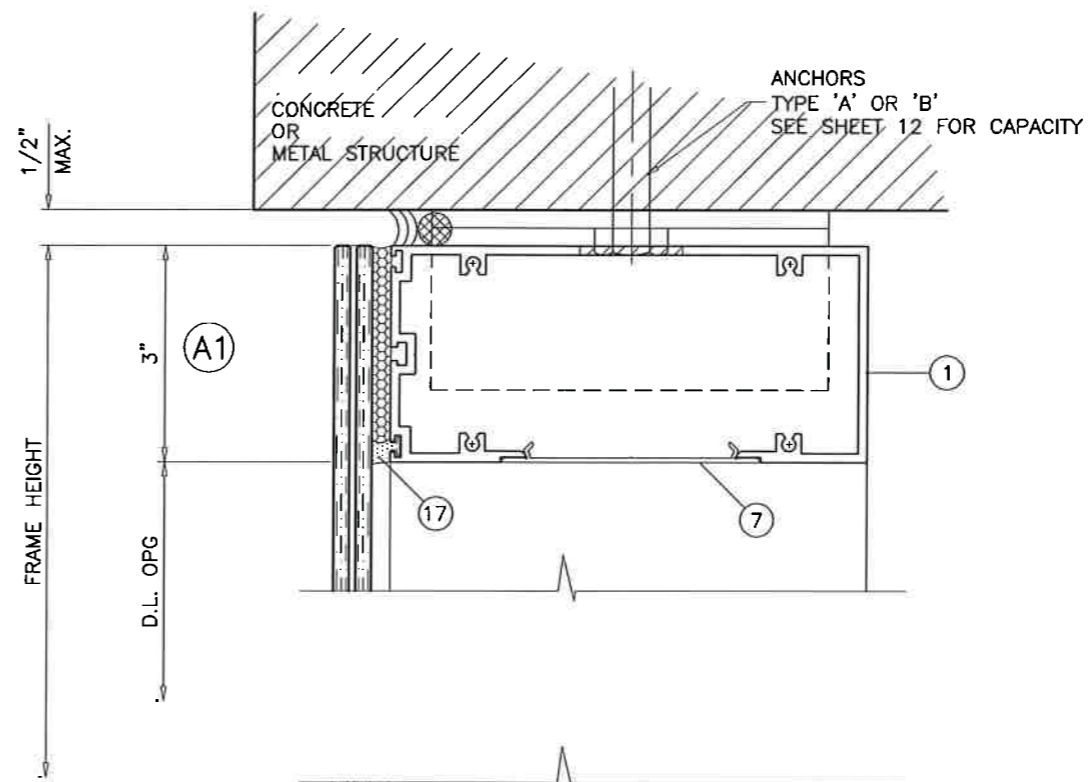
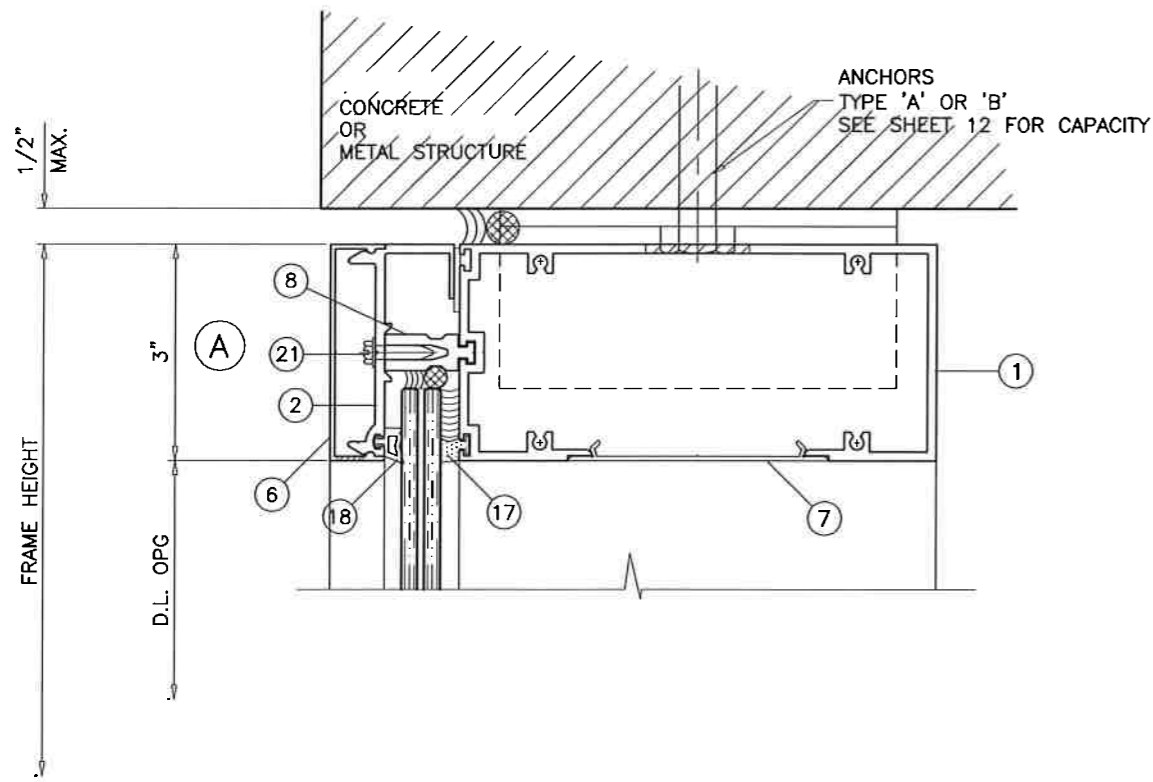
CONCRETE AND METAL STRUCTURE NOT BY GLASSTECH
MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM
AND TRANSFER THEM TO THE BUILDING STRUCTURE.

af c
AL-FAROOQ CORPORATION
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date:	10-06-17	scale:	3/8" = 1"	
dr. by:	TARIQ	chk. by:		
drawing no.	W17-87			
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.

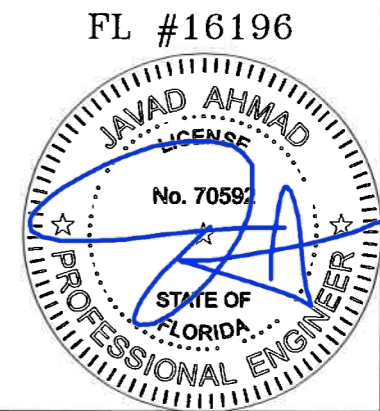
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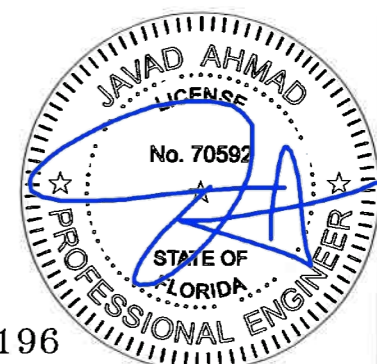
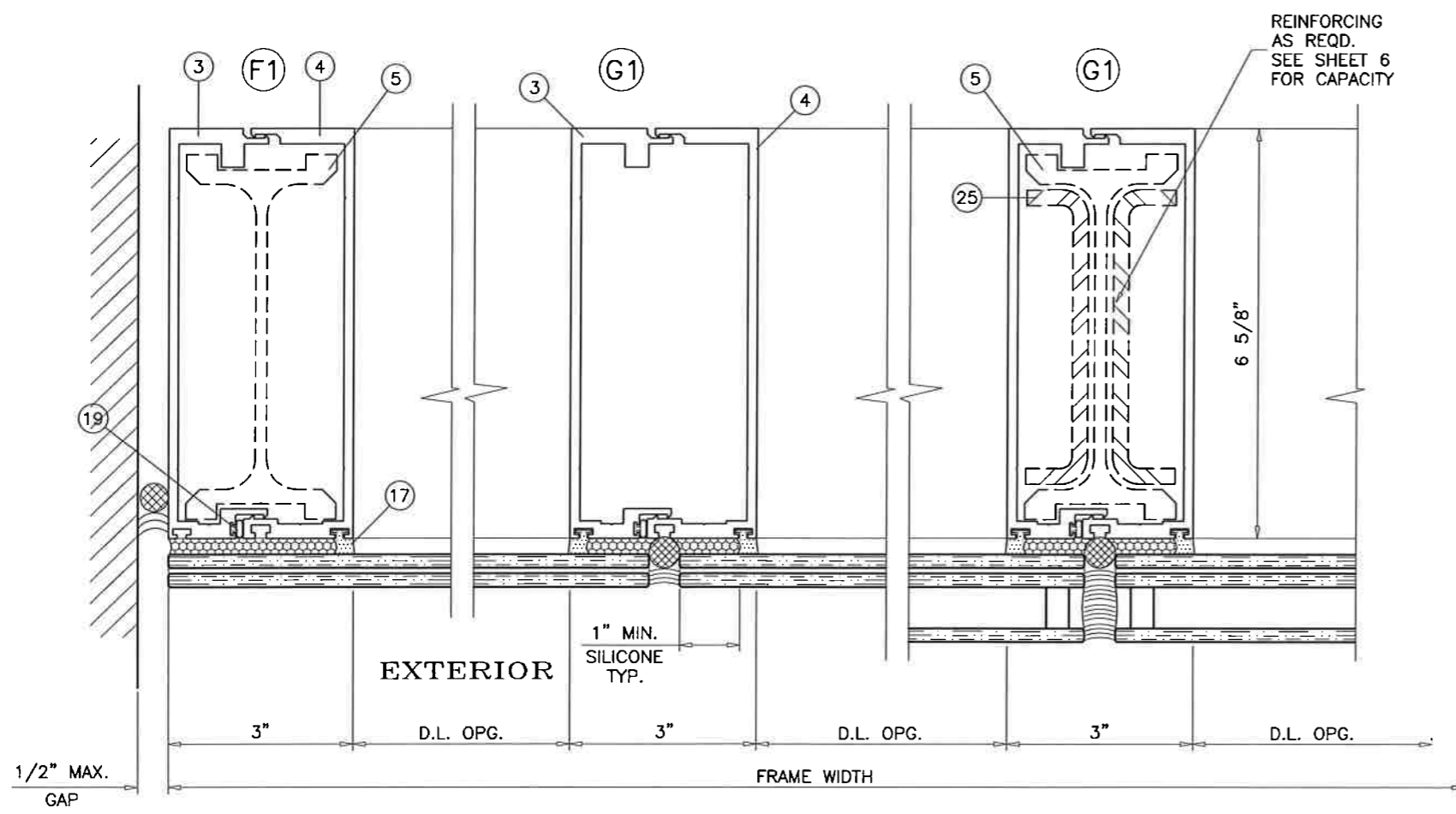
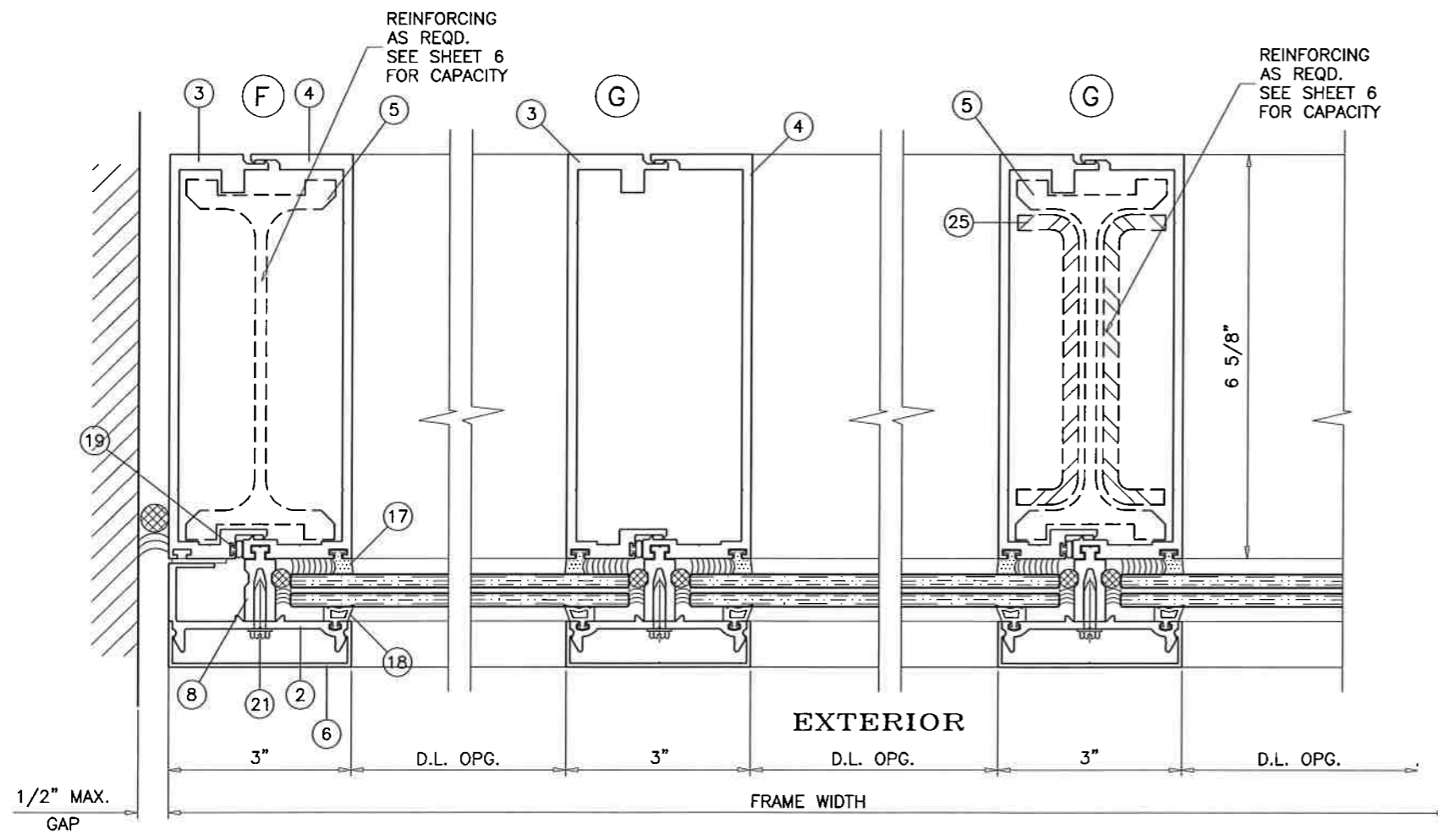
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revisions:
 date: 10-06-17
 scale: 3/8" = 1"
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drawing no.
W17-87
 sheet 13.1 of 24





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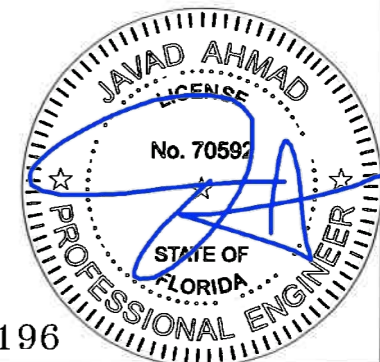
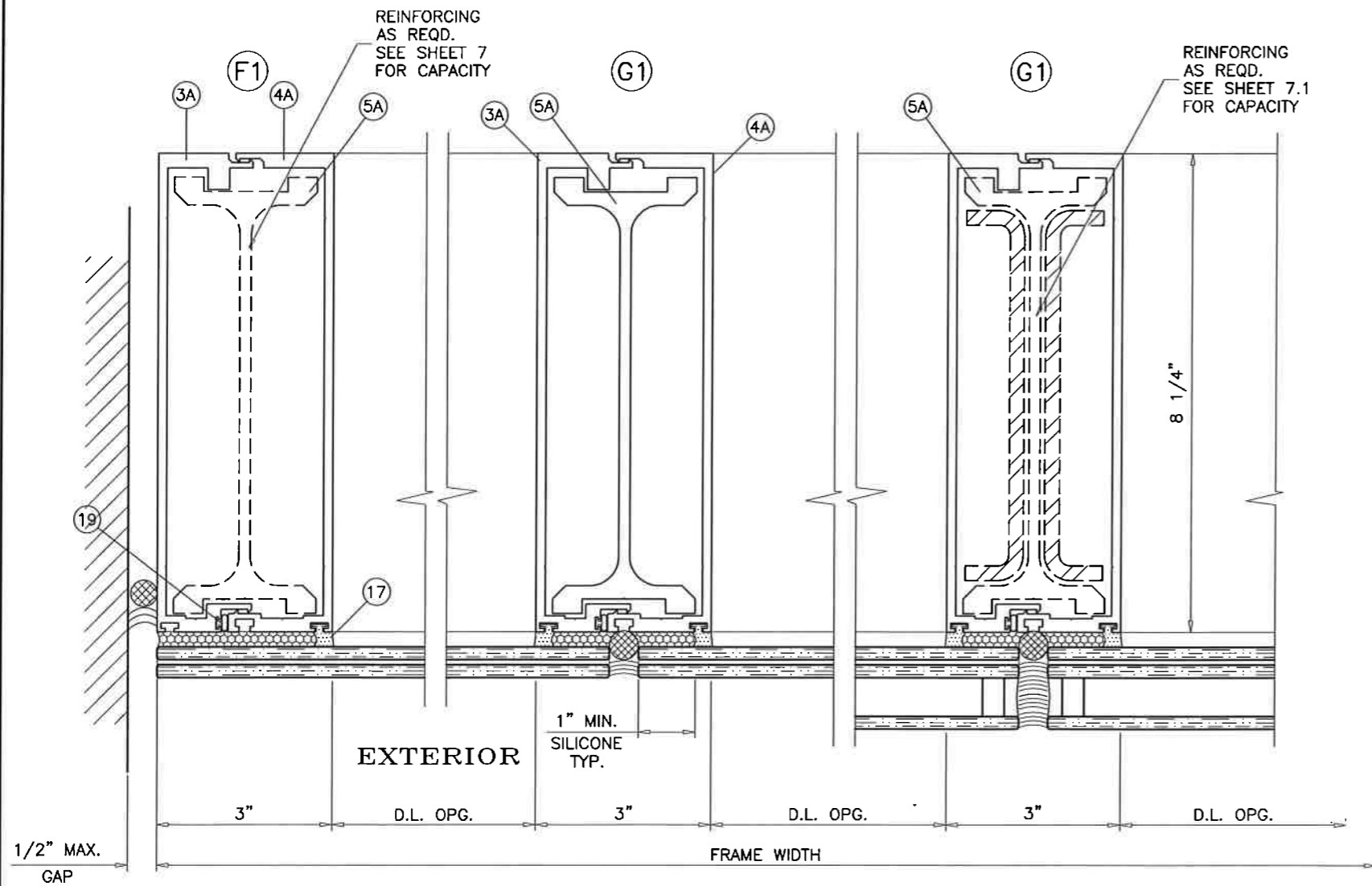
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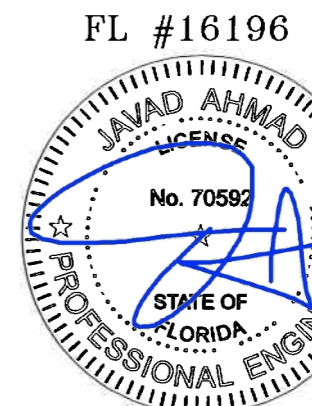
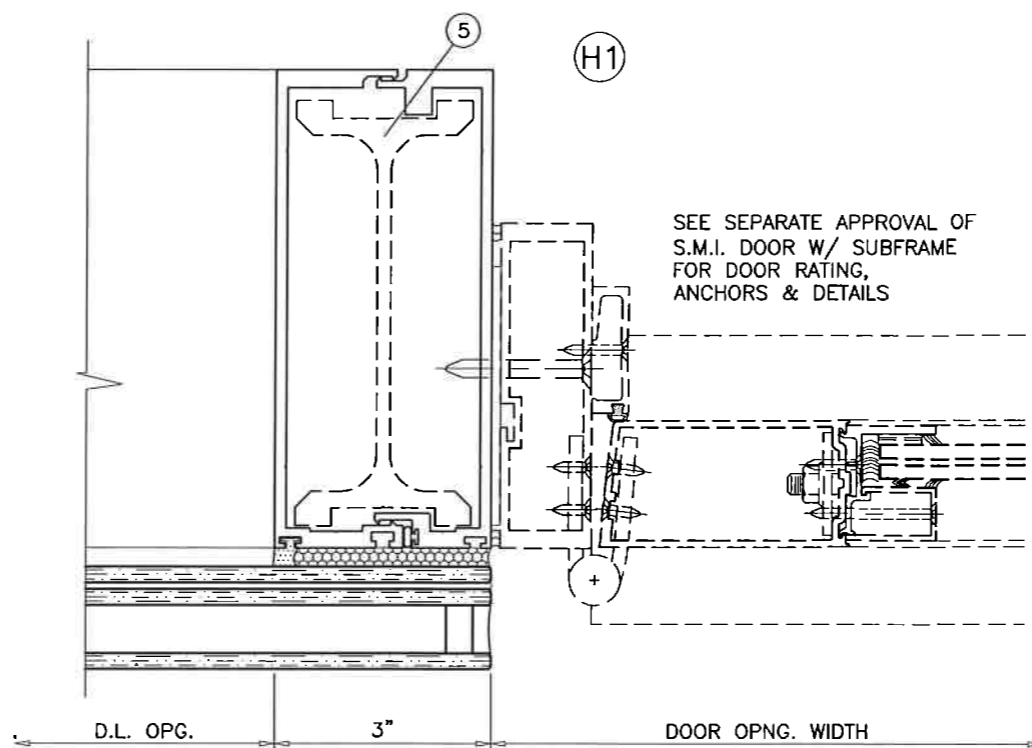
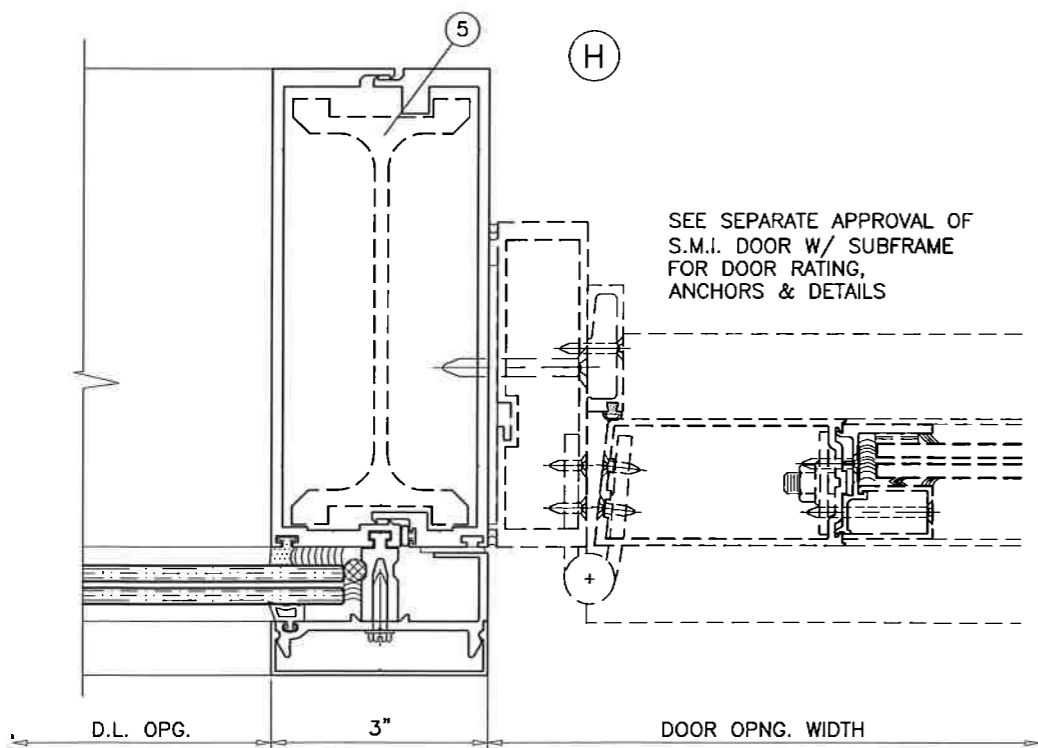
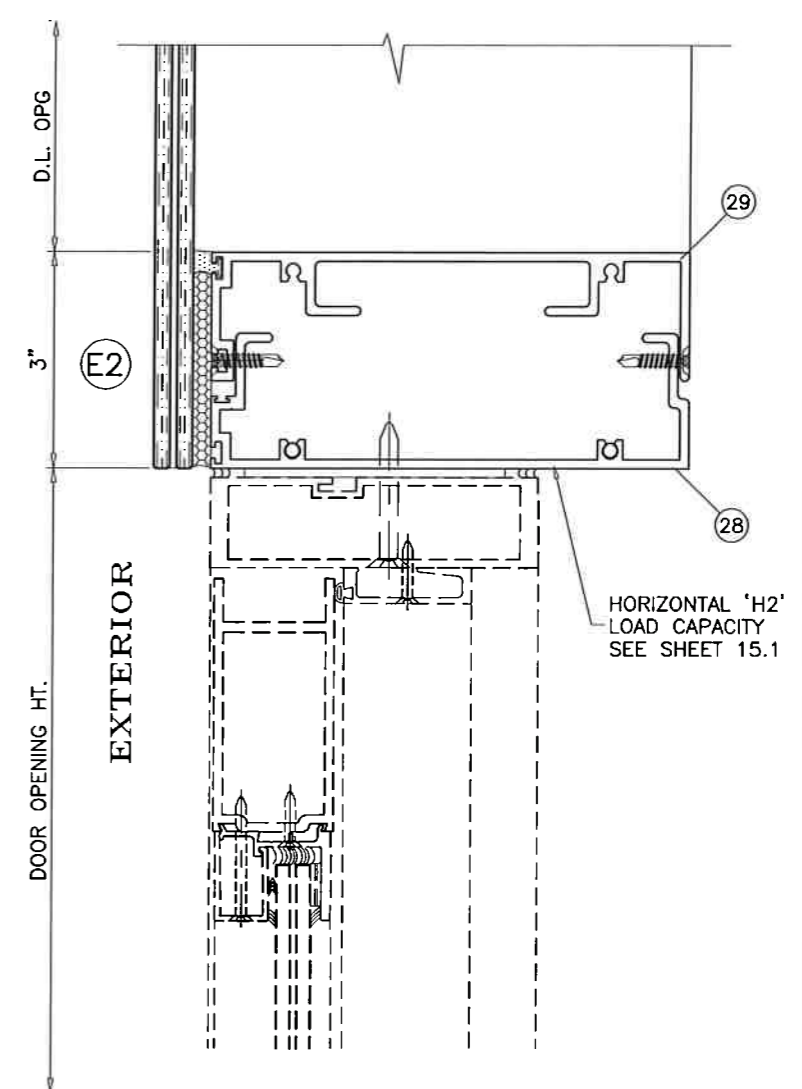
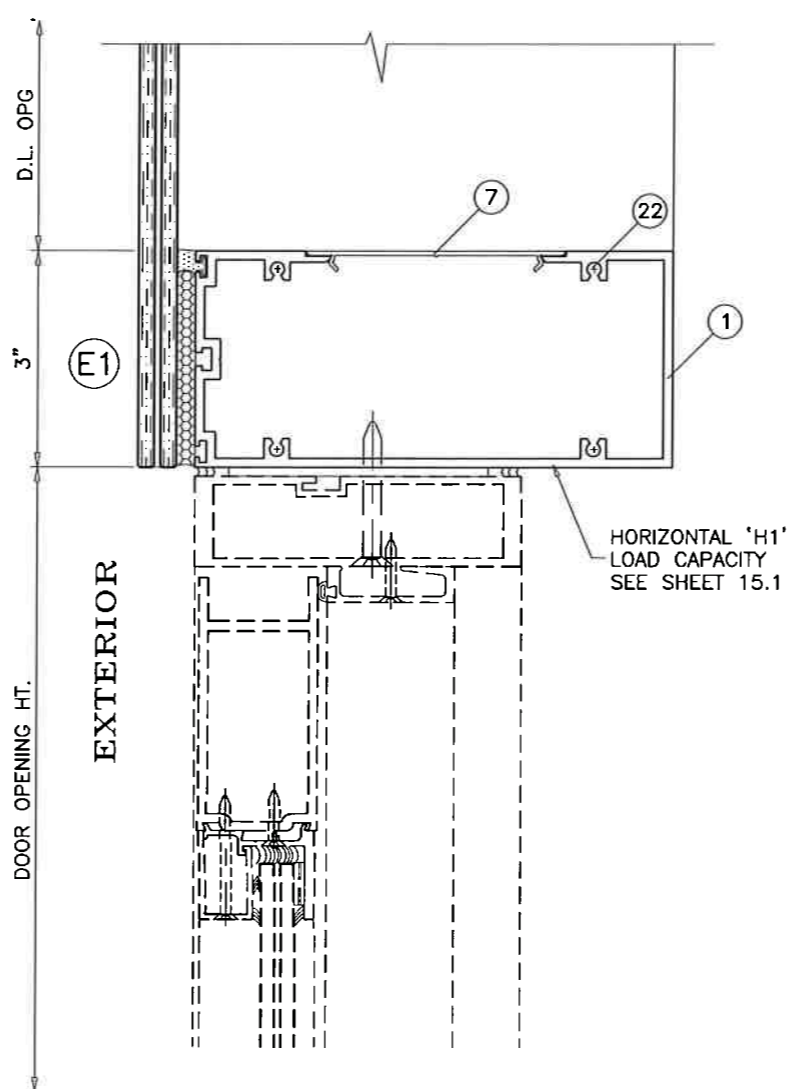
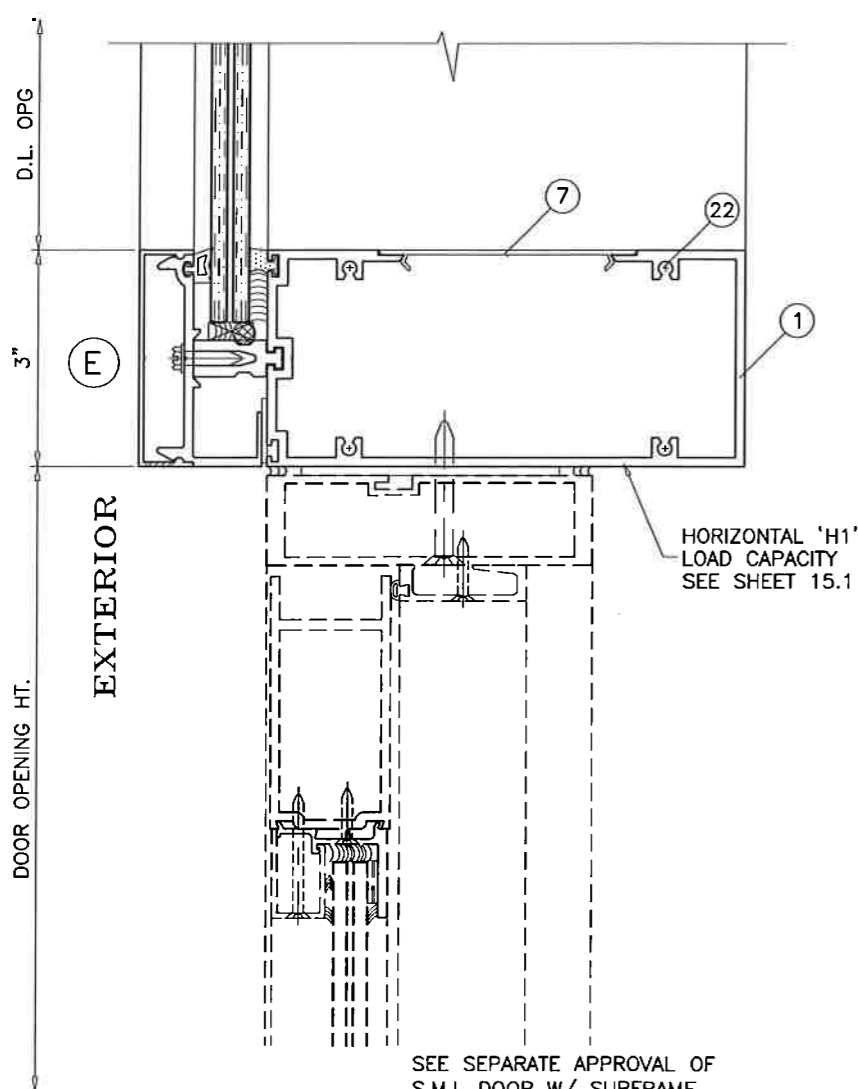
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no.	date	by	description

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 dr. by: TARIQ
 chk. by:

drawing no.
W17-87
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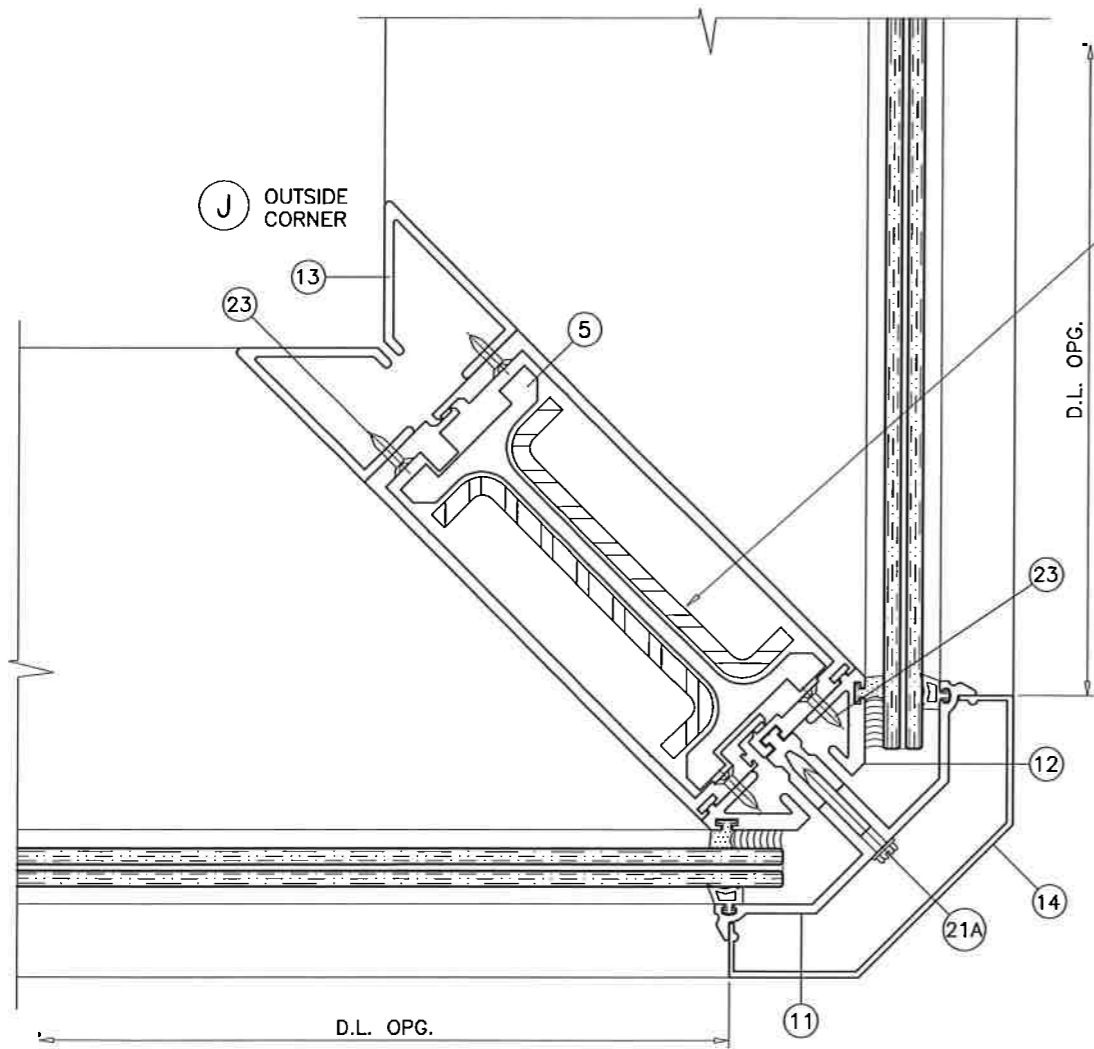
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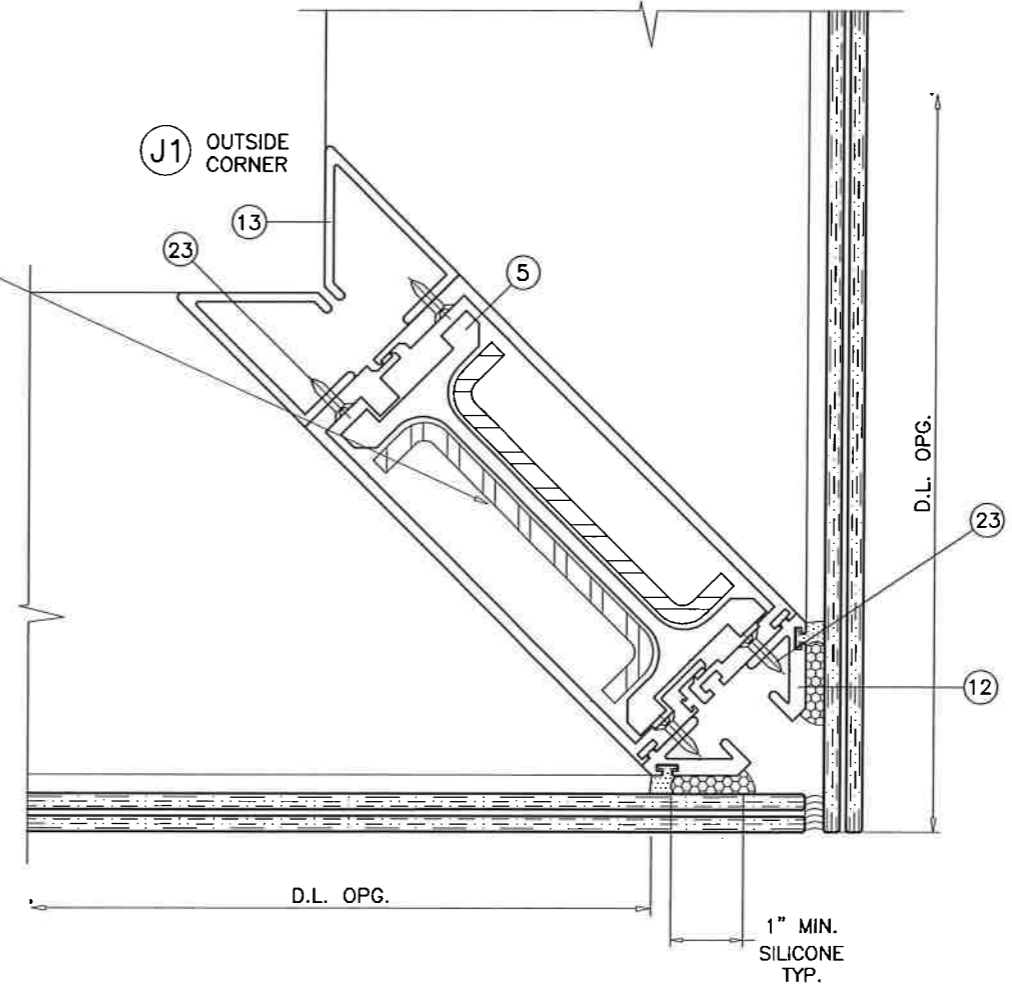
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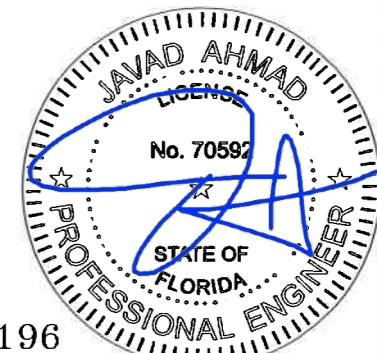
drawing no. **W17-87**
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90° CORNER MULLION CAPACITY
WITH OR WITHOUT STEEL REINFORCING
SEE CHART ON SHEET 10



1" MIN.
SILICONE
TYP.



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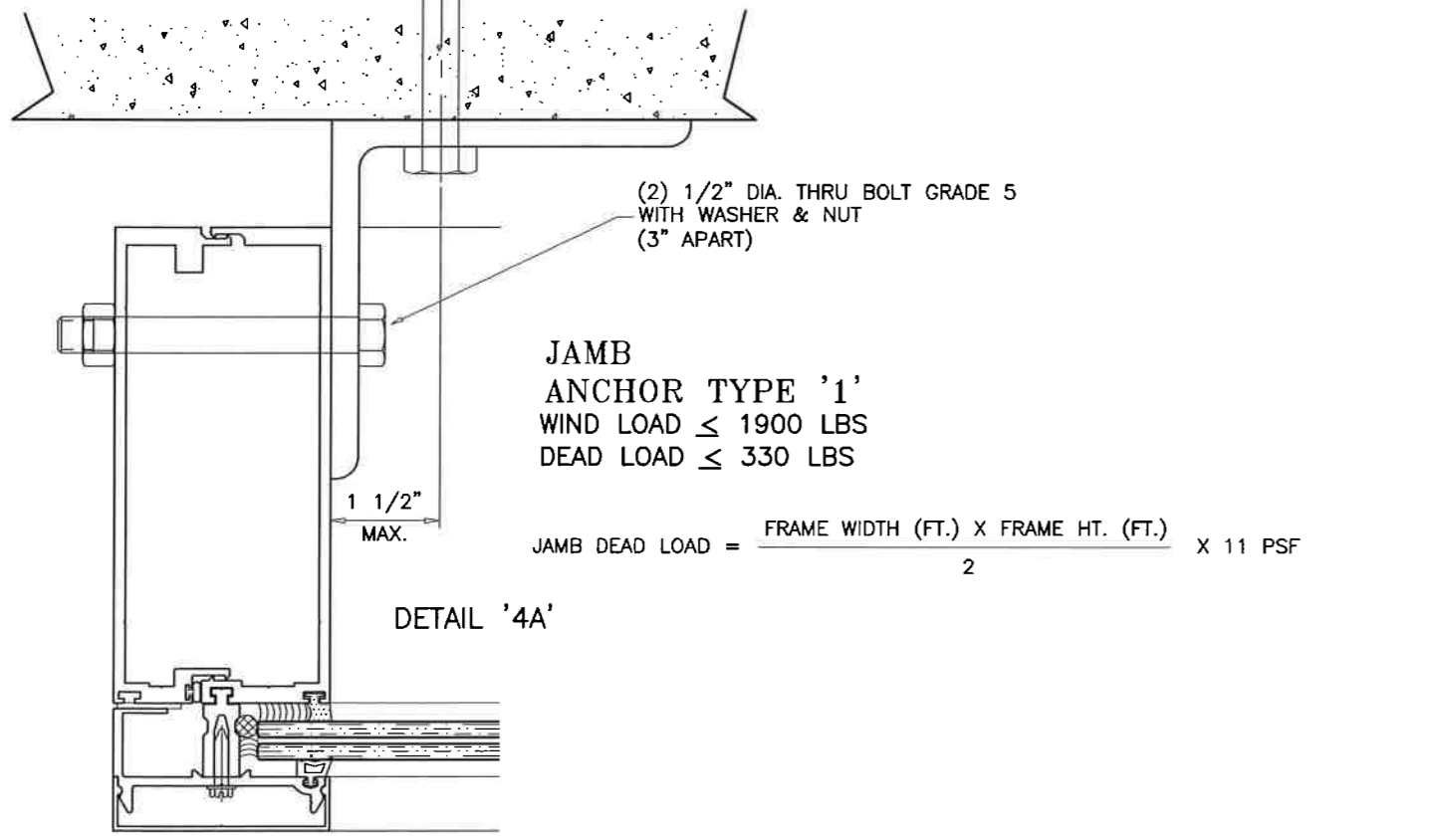
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no	date by description

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dr. by: TARIQ	chk. by:

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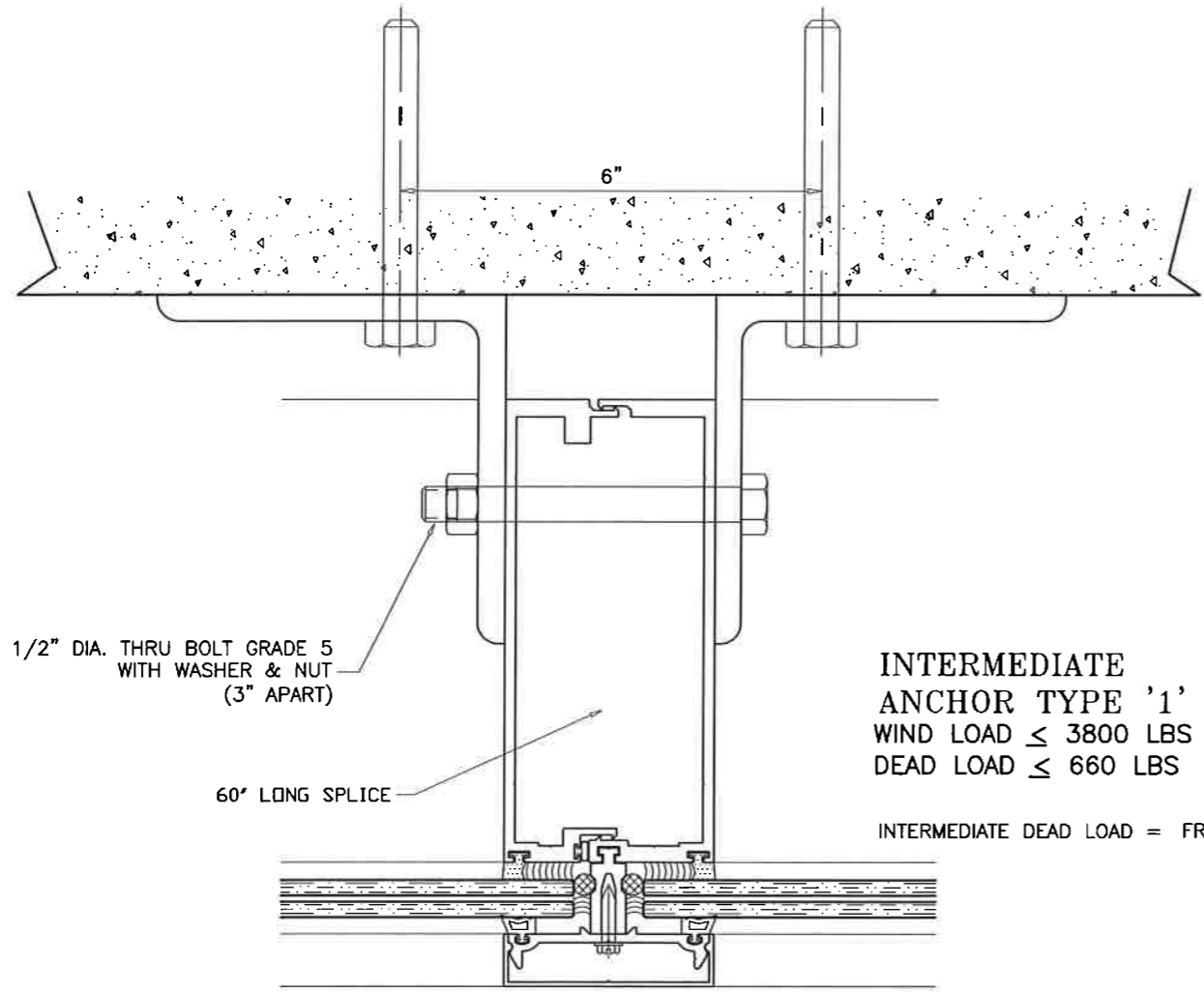


(2) 1/2" DIA. THRU BOLT GRADE 5 WITH WASHER & NUT (3" APART)

JAMB ANCHOR TYPE '1'
WIND LOAD ≤ 1900 LBS
DEAD LOAD ≤ 330 LBS

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

DETAIL '4A'

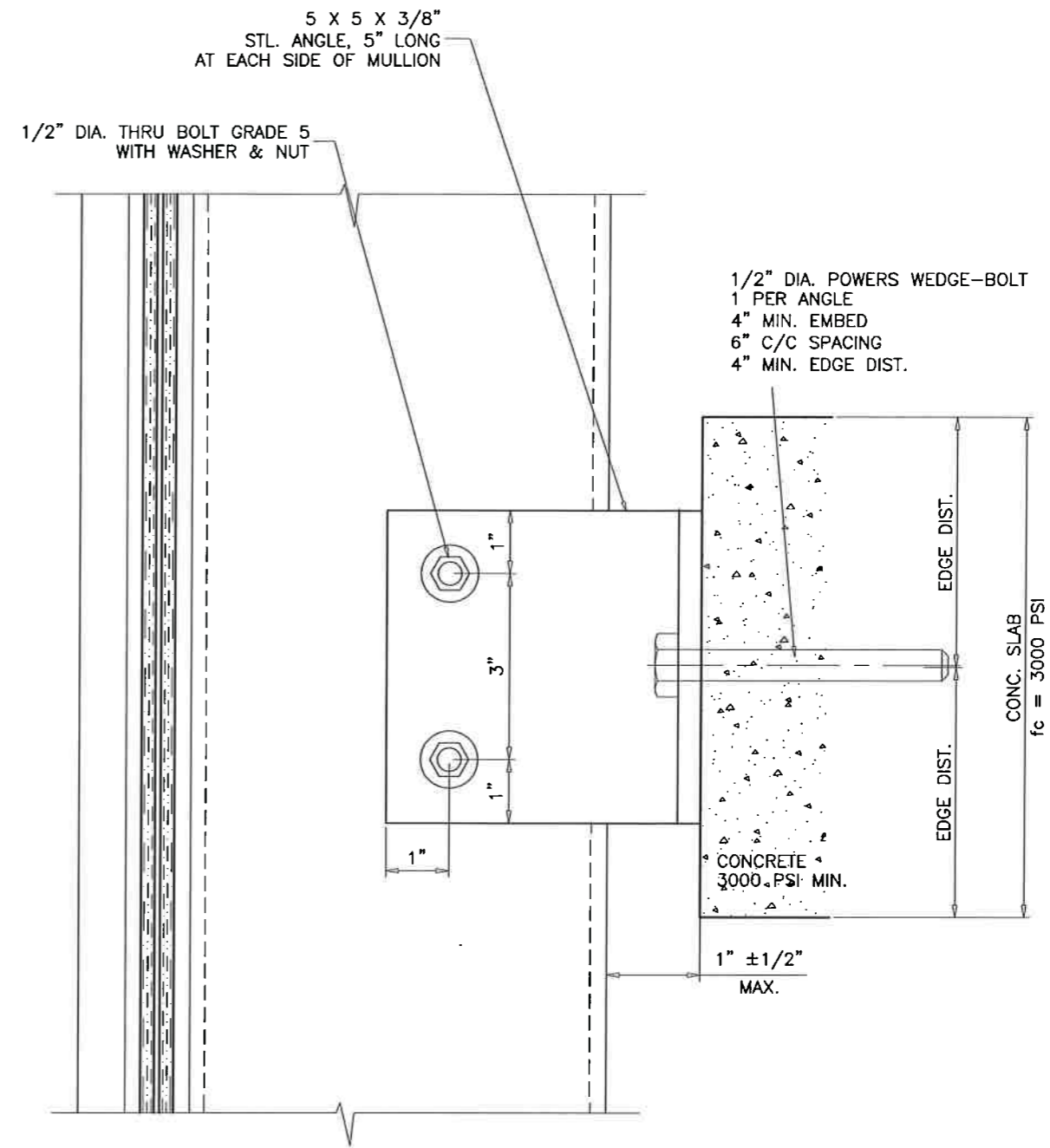


(2) 1/2" DIA. THRU BOLT GRADE 5 WITH WASHER & NUT (3" APART)

60" LONG SPLICE

INTERMEDIATE ANCHOR TYPE '1'
WIND LOAD ≤ 3800 LBS
DEAD LOAD ≤ 660 LBS

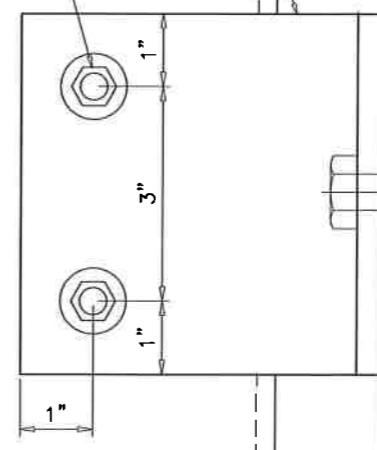
INTERMEDIATE DEAD LOAD = $\text{FRAME WIDTH (FT.)} \times \text{FRAME HT. (FT.)} \times 11 \text{ PSF}$



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

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



1" ± 1/2" MAX.

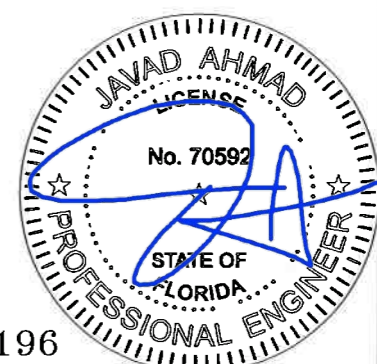
EDGE DIST.
CONC. SLAB
fc = 3000 PSI

INTERMEDIATE ANCHORS
DETAIL '4'

ANCHORS INTO CONCRETE

WIND + DEAD LOAD ANCHOR

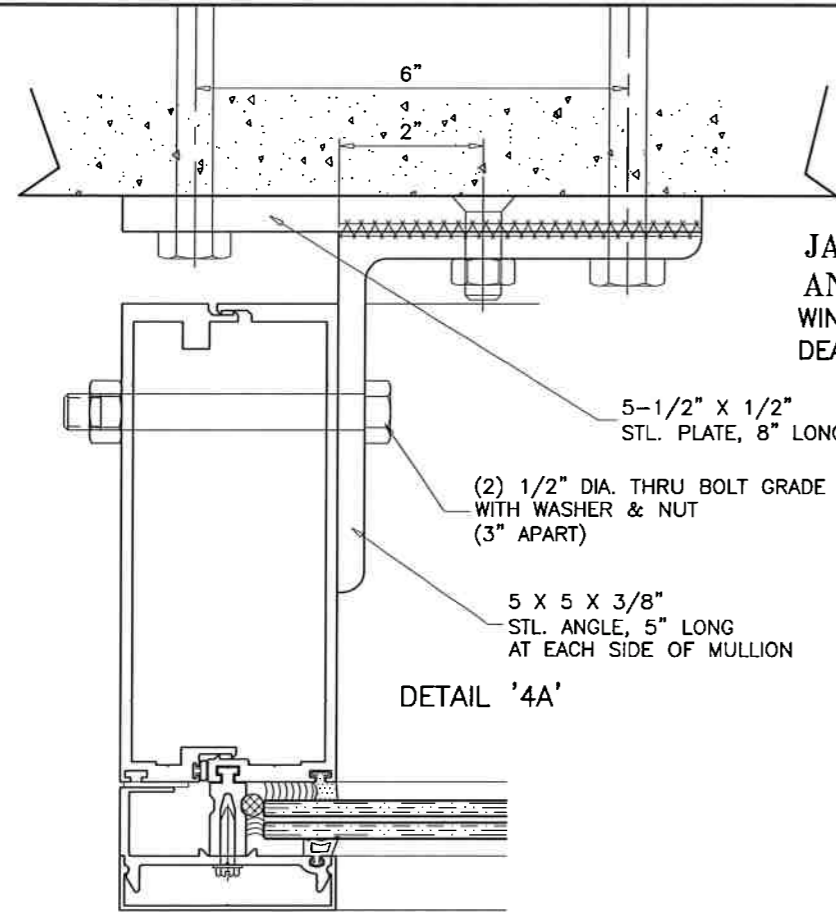
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revisions:	no	date	by	description
date:	10-06-17	scale:	3/8" = 1"	
dr. by:	TARIQ	chk. by:		
drawing no.	W17-87			
sheet	17 of 24			



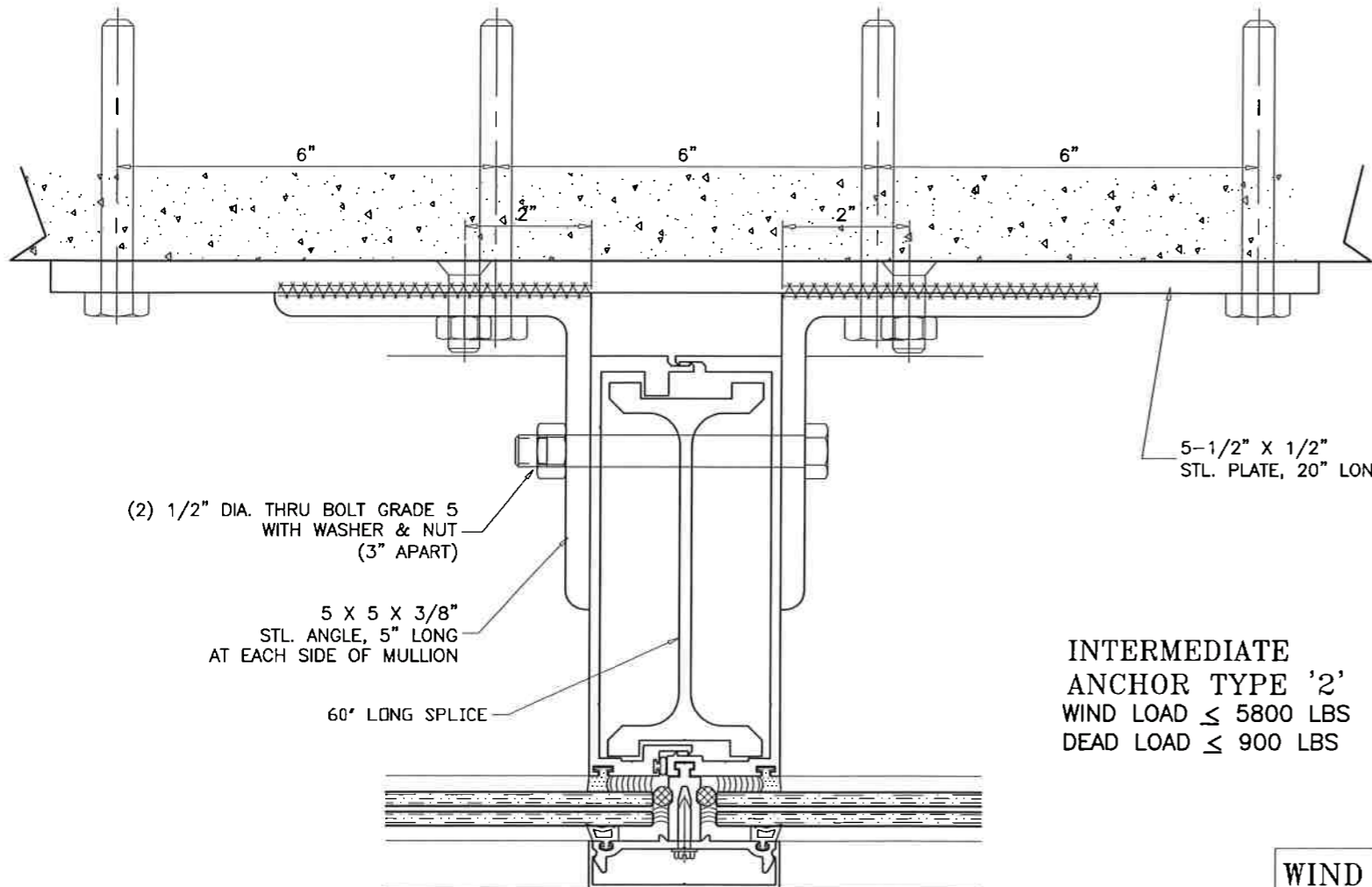
JAMB ANCHOR TYPE '2'
 WIND LOAD \leq 2900 LBS
 DEAD LOAD \leq 450 LBS

5-1/2" X 1/2"
 STL. PLATE, 8" LONG

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

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

DETAIL '4A'



INTERMEDIATE ANCHOR TYPE '2'
 WIND LOAD \leq 5800 LBS
 DEAD LOAD \leq 900 LBS

5-1/2" X 1/2"
 STL. PLATE, 20" LONG

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

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

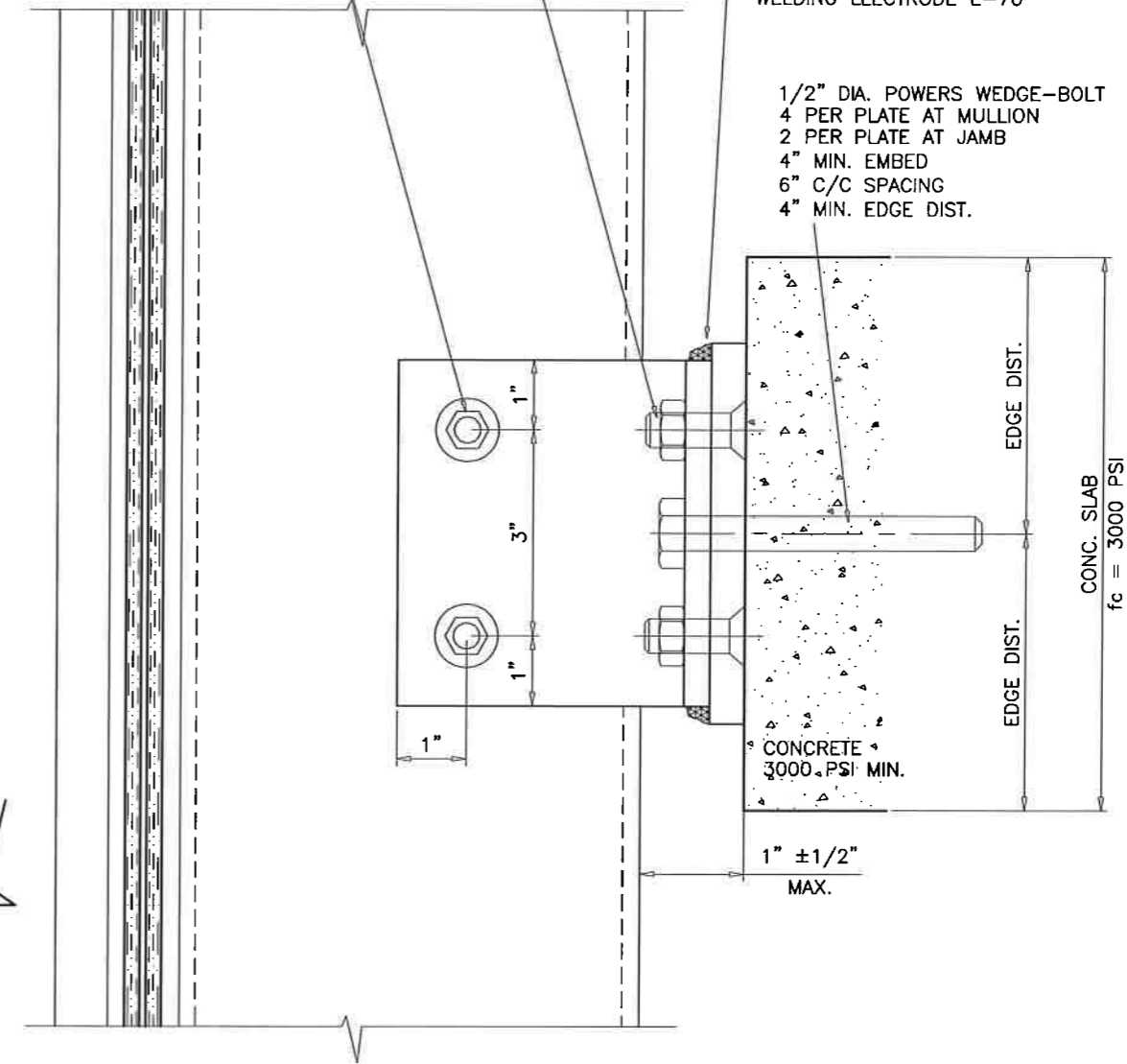
60' LONG SPLICE

1/2" DIA. MACHINE BOLTS
 GRADE 5
 W/ WASHER & NUT
 2 PER ANGLE
 AT 3" O.C.

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

1/4" X 5" FILLET WELDS
 (2) PER ANGLE
 WELDING ELECTRODE E-70

1/2" DIA. POWERS WEDGE-BOLT
 4 PER PLATE AT MULLION
 2 PER PLATE AT JAMB
 4" MIN. EMBED
 6" C/C SPACING
 4" MIN. EDGE DIST.

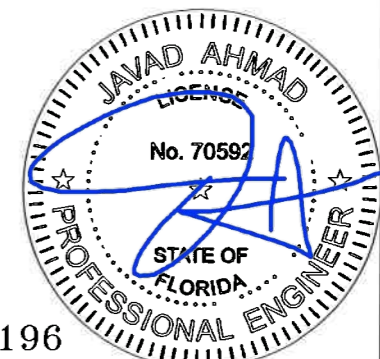


INTERMEDIATE ANCHORS
 DETAIL '4'

ANCHORS INTO CONCRETE

WIND + DEAD LOAD ANCHOR

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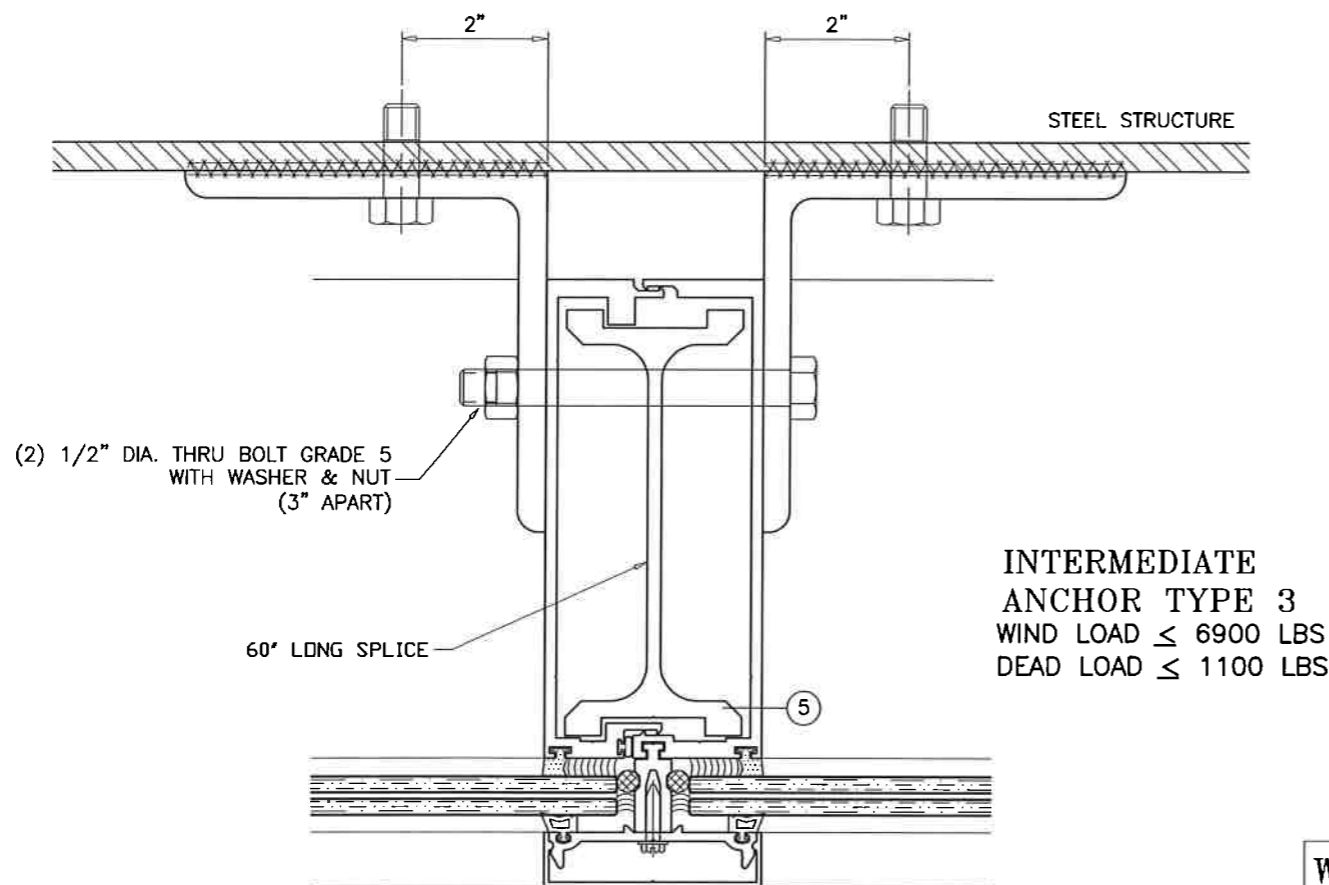
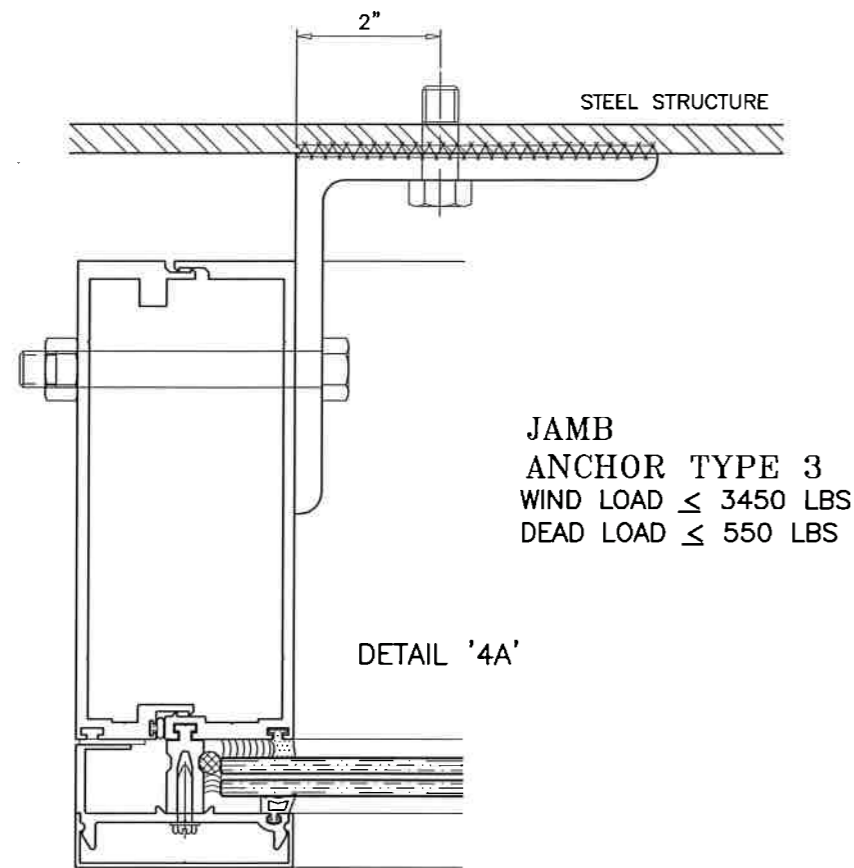
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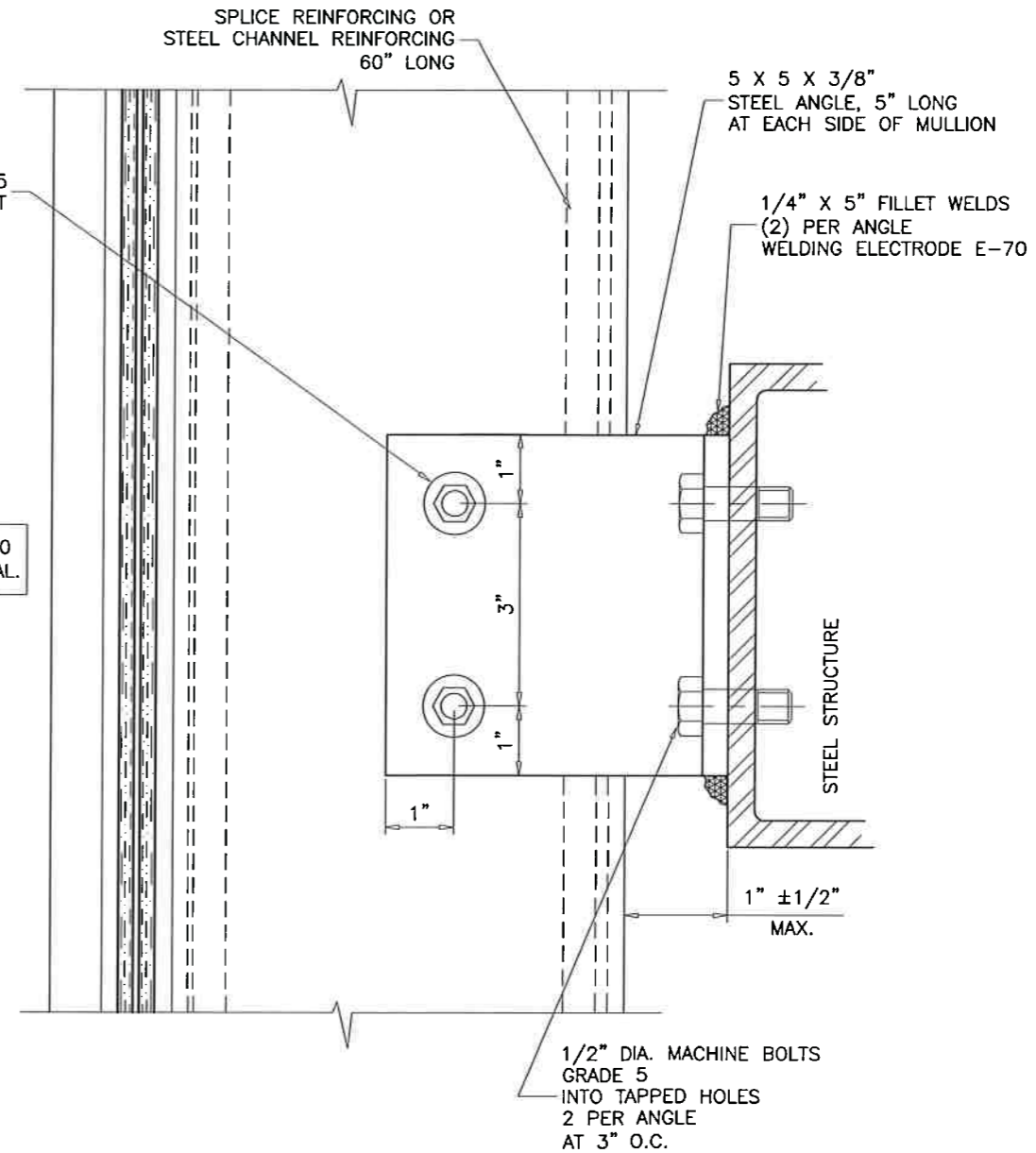
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INTERMEDIATE ANCHOR TYPE 3
 WIND LOAD \leq 6900 LBS
 DEAD LOAD \leq 1100 LBS



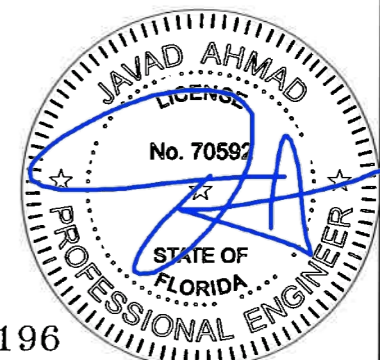
INTERMEDIATE ANCHORS
 DETAIL '4' (ALT.)

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

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

WIND + DEAD LOAD ANCHOR

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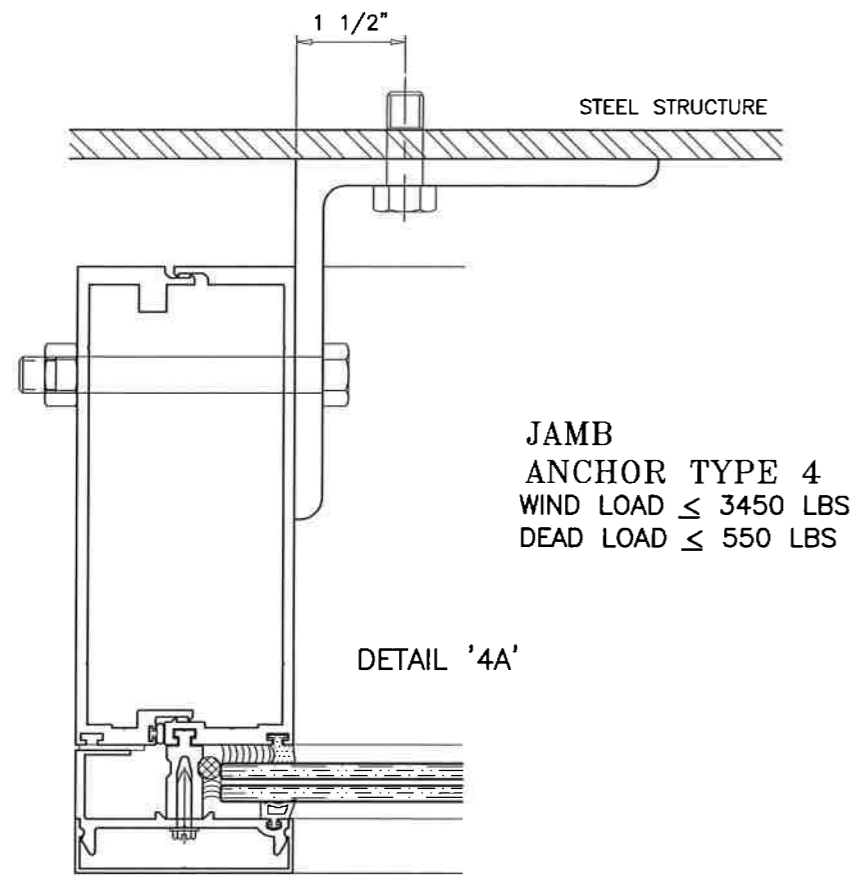
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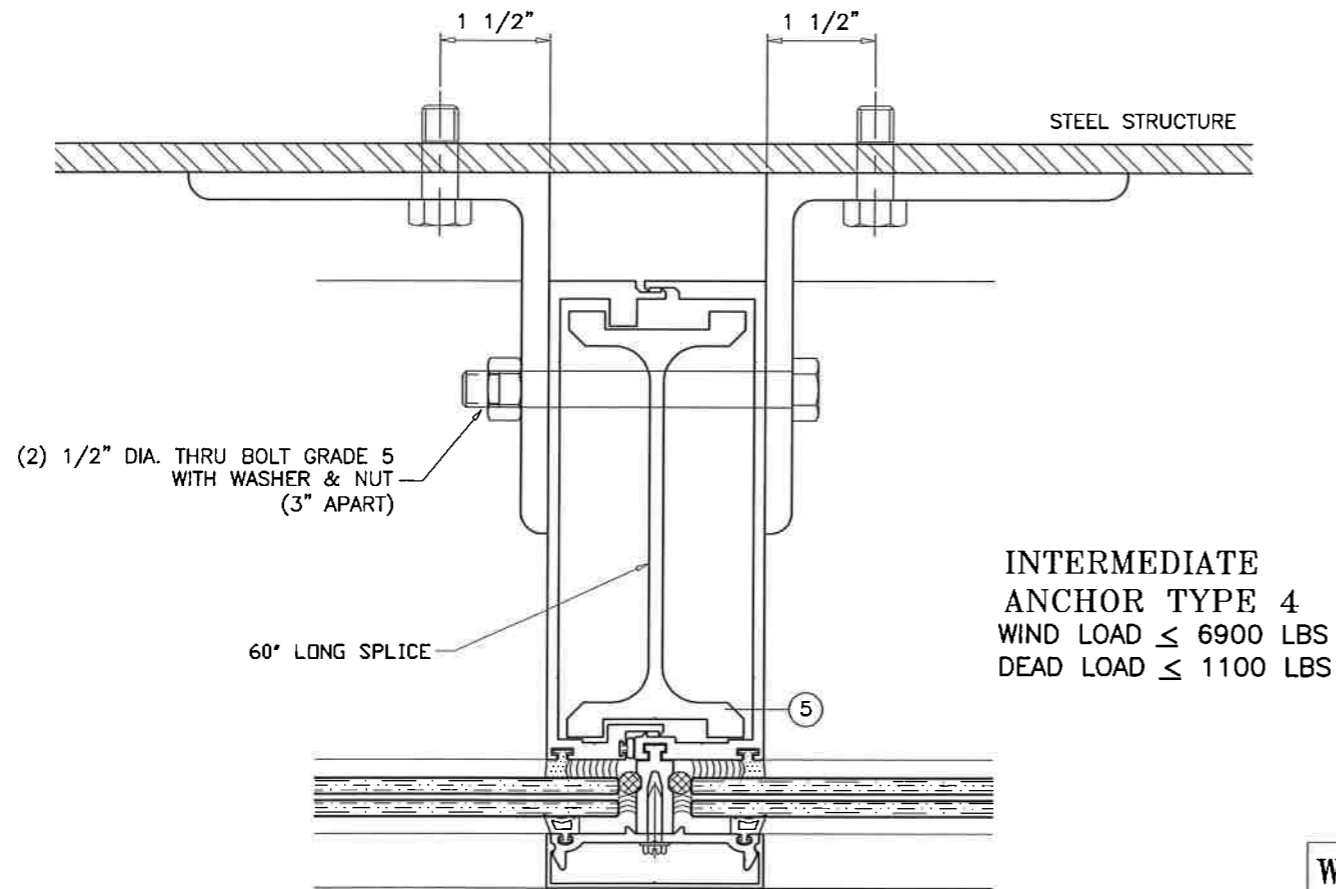
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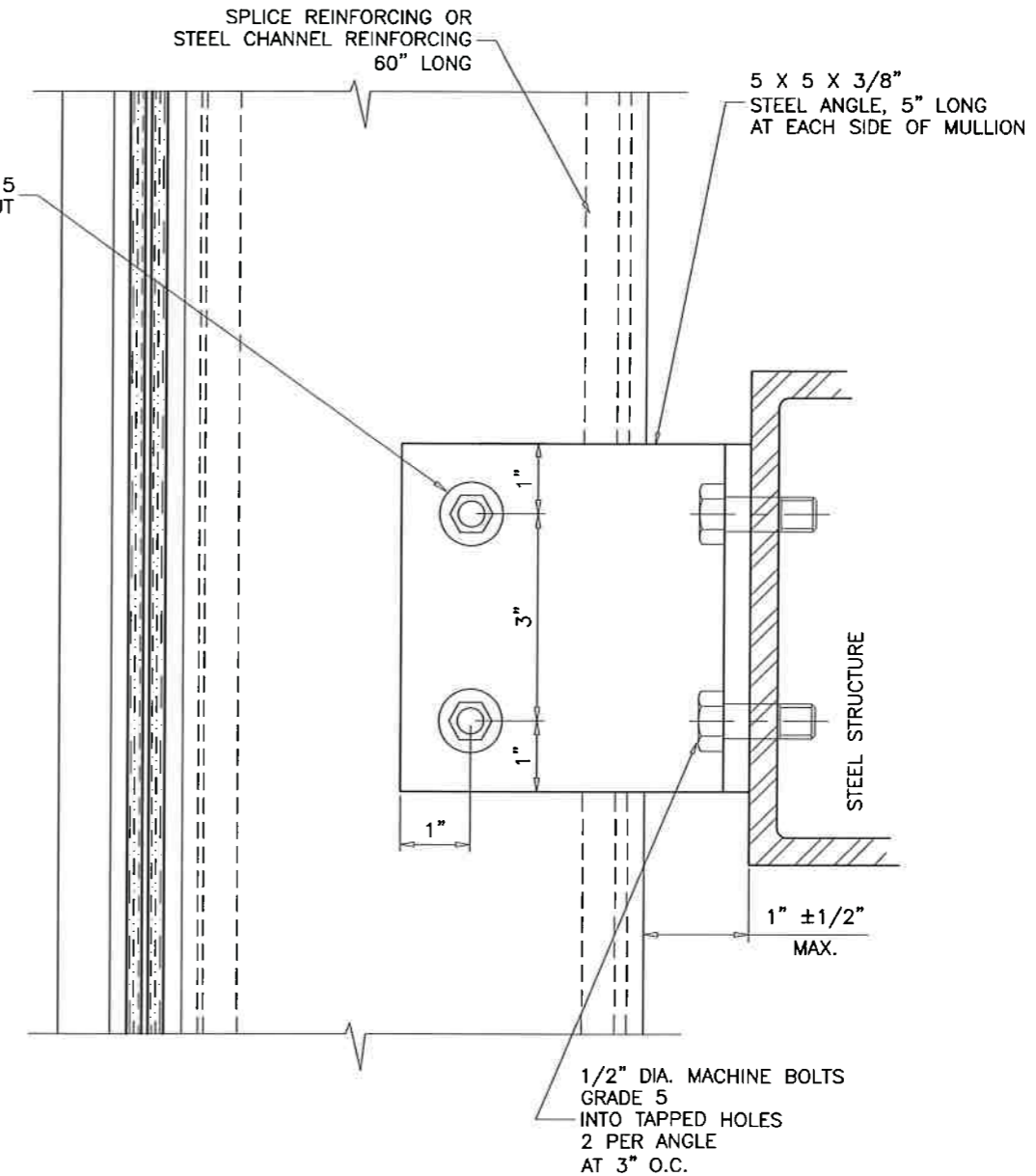


**JAMB
ANCHOR TYPE 4**
WIND LOAD \leq 3450 LBS
DEAD LOAD \leq 550 LBS

DETAIL '4A'



**INTERMEDIATE
ANCHOR TYPE 4**
WIND LOAD \leq 6900 LBS
DEAD LOAD \leq 1100 LBS

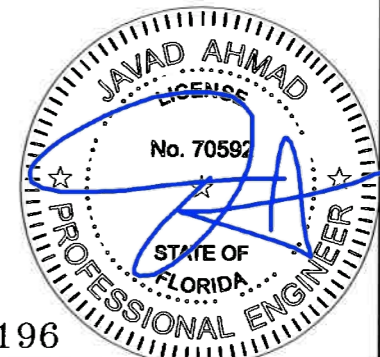


**INTERMEDIATE ANCHORS
DETAIL '4' (ALT.)**

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

WIND + DEAD LOAD ANCHOR

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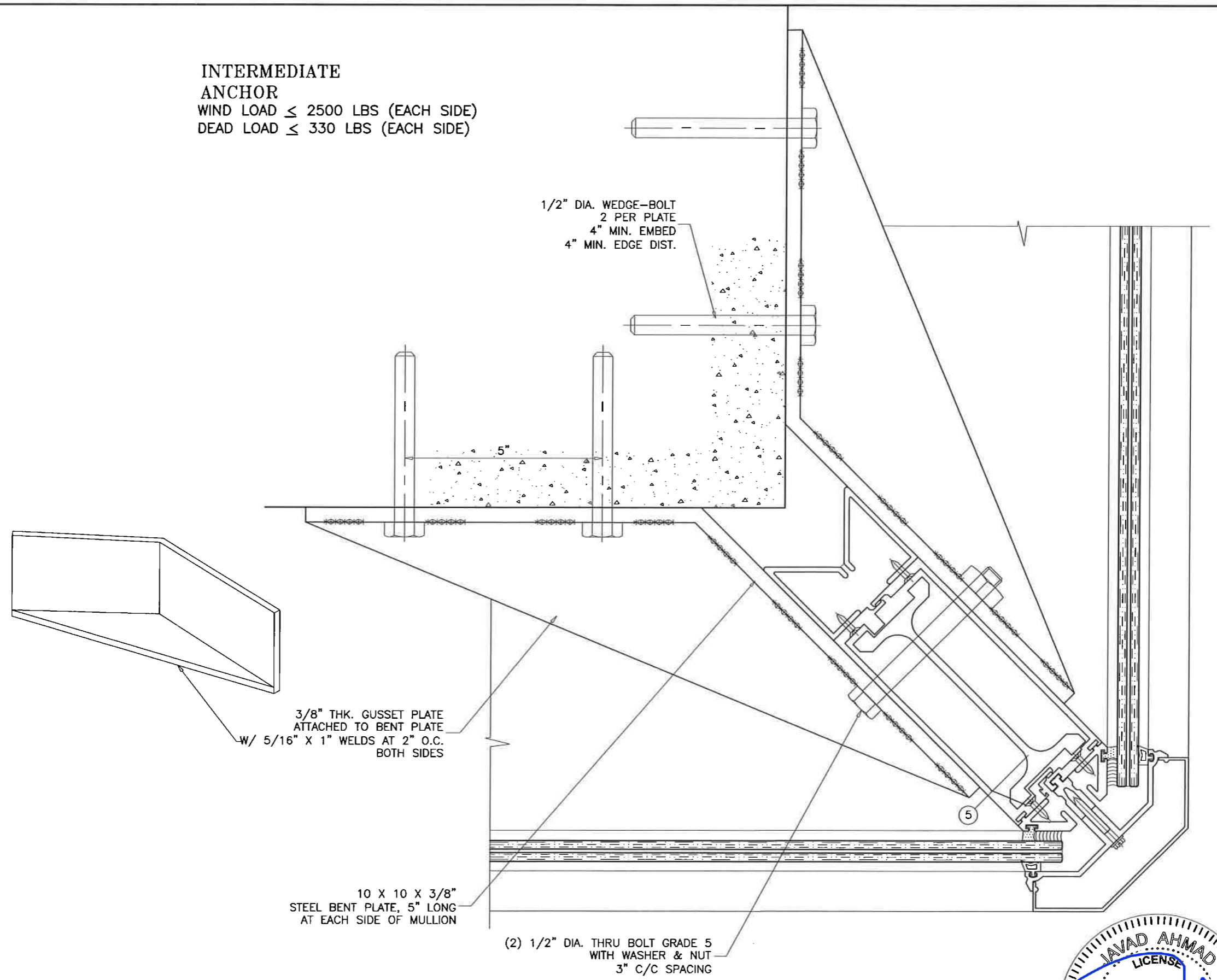
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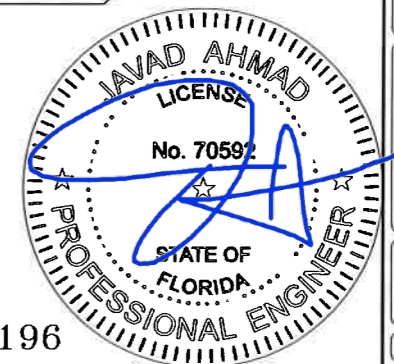
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INTERMEDIATE
ANCHOR
WIND LOAD \leq 2500 LBS (EACH SIDE)
DEAD LOAD \leq 330 LBS (EACH SIDE)



(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

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MIAMI, FLORIDA 33173
TEL. (305) 262-6978 FAX. (305) 264-8100
COMP-ANL\W17-87GTE

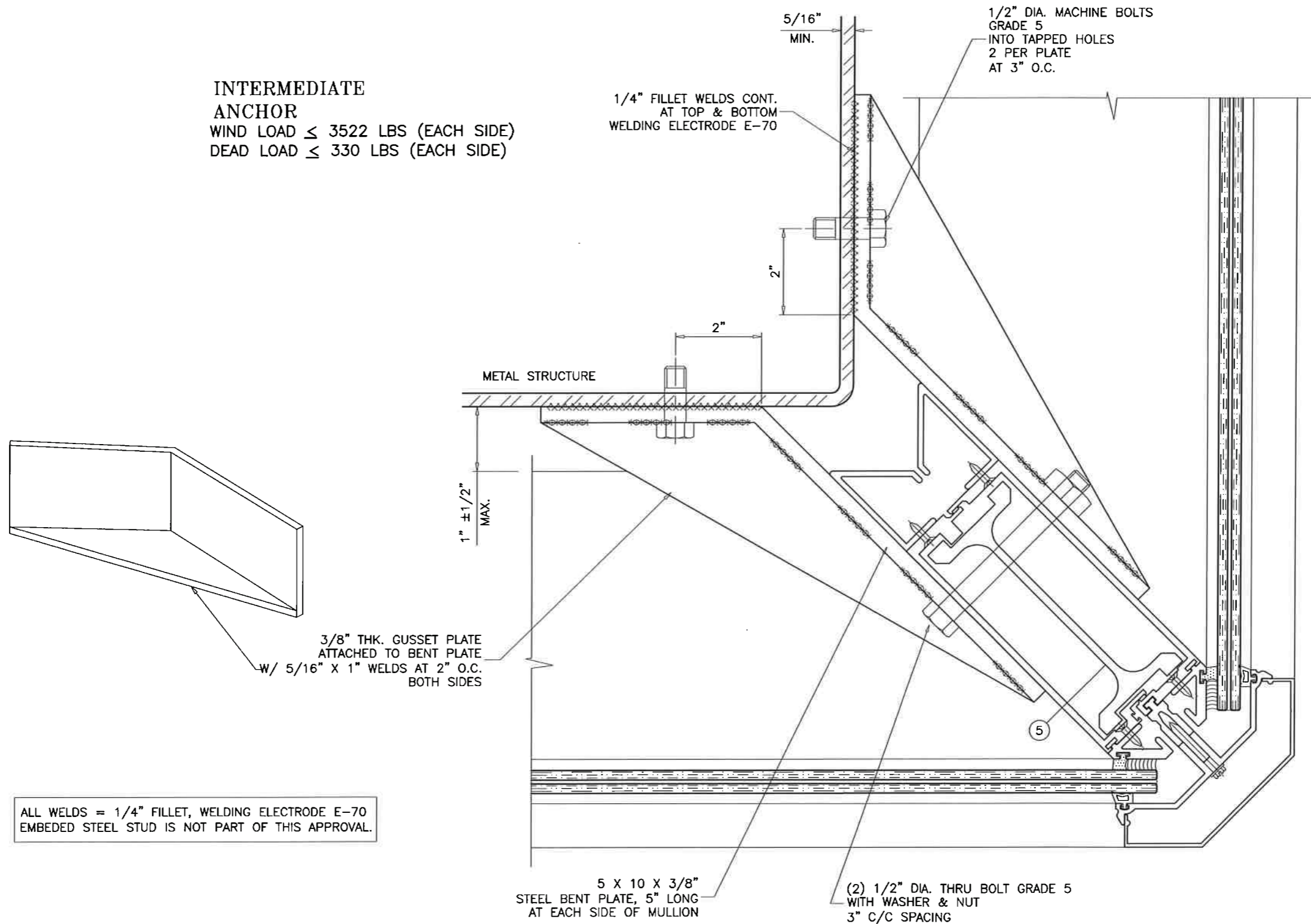
SERIES-2047 ALUM CURTAIN WALL SYSTEM (S.M.I.)
Glass Tech Engineering, Inc.
8321 N.W. 70th Street
Miami, FL. 33166
Tel. (305) 594-4321 Fax. (305) 599-2730

revisions:	
no.	description

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dr. by: TARIQ	chk. by:

drawing no.	W17-87
sheet	20 of 24

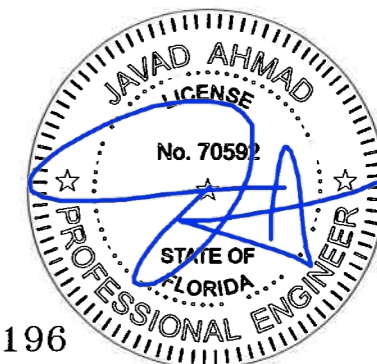
INTERMEDIATE
ANCHOR
WIND LOAD \leq 3522 LBS (EACH SIDE)
DEAD LOAD \leq 330 LBS (EACH SIDE)



CORNER MULLION ANCHORS
DETAIL '8' (ALT.)

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

WIND + DEAD LOAD ANCHOR



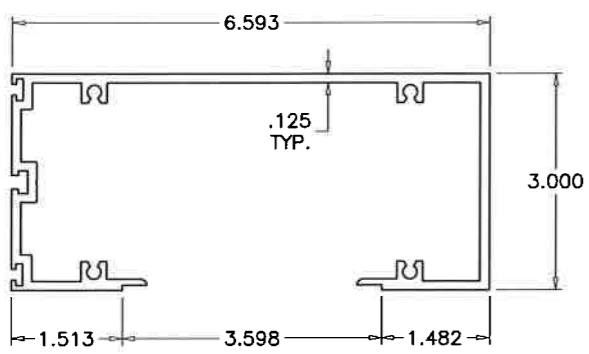
FL #16196

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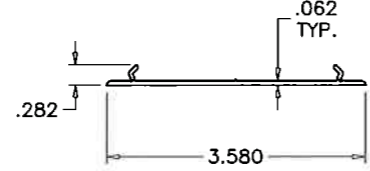
SERIES-2047 ALUM CURTAIN WALL SYSTEM (S.M.I.)
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revisions:	
no.	date by description

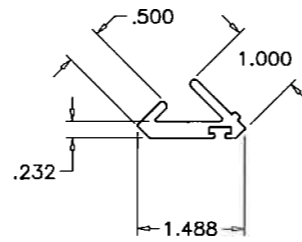
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drawing no.		W17-87	
sheet 21 of 24			



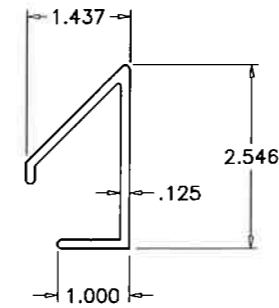
① FRAME HEAD/SILL/HORIZONTAL



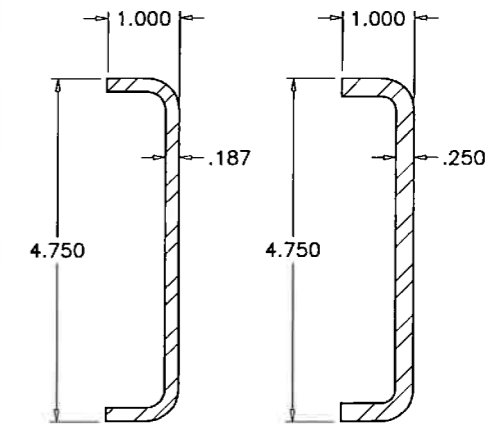
⑦ INTERIOR SNAP COVER



⑫ CORNER EXT. ADAPTER

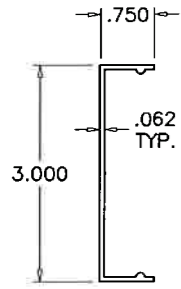


⑬ CORNER INT. ADAPTER

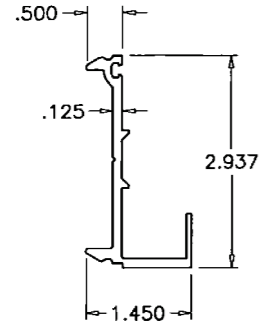


⑫⑤ Fy=46 KSI Fy=46 KSI ⑫⑥

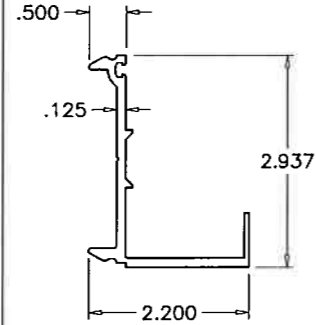
REINFORCING CHANNELS



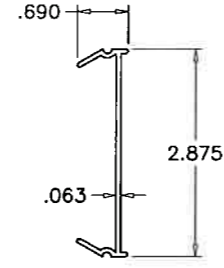
⑥ EXTERIOR SNAP COVER



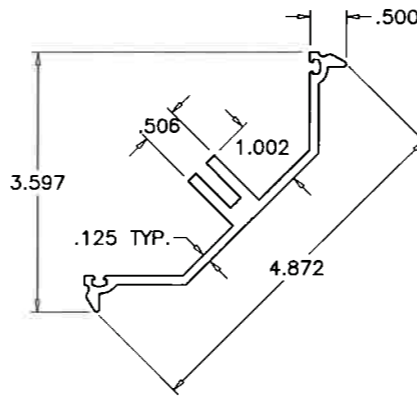
② PRESSURE PLATE



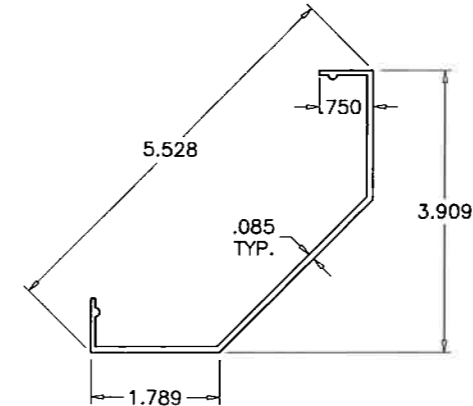
②A PRESSURE PLATE



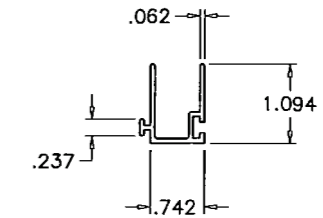
②B PRESSURE PLATE



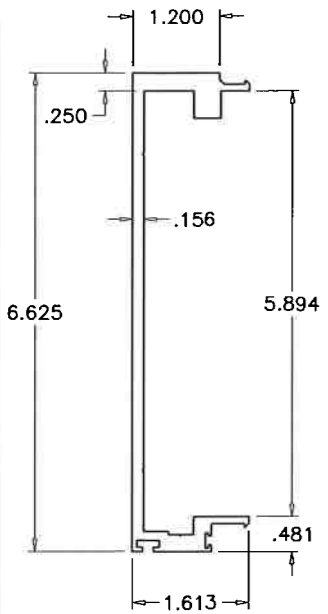
⑪ CORNER PRESSURE PLATE



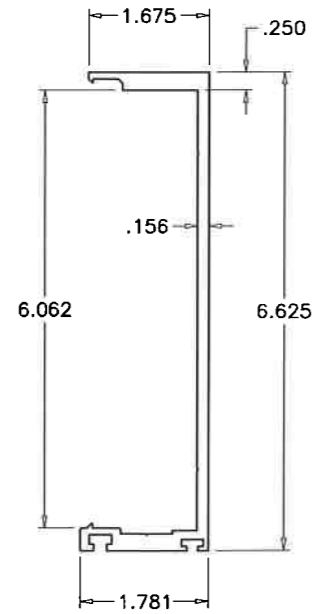
⑭ CORNER SNAP COVER



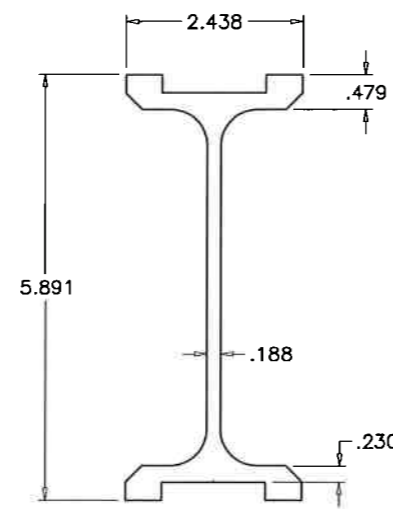
⑳① SPANDREL INFILL



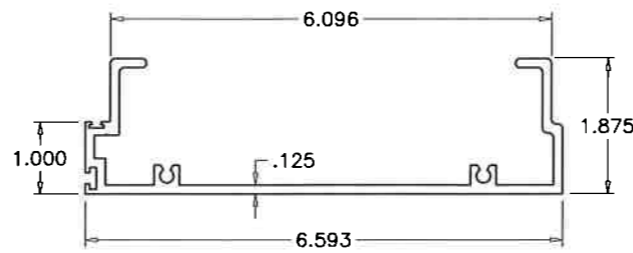
③ MALE MULLION



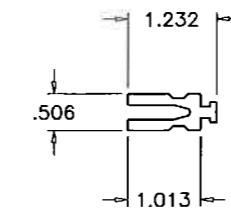
④ FEMALE MULLION



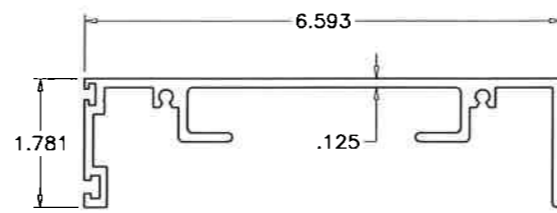
⑤ SPLICE/STIFFENER



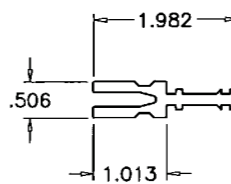
⑳⑧ MALE INTERMEDIATE HORIZONTAL



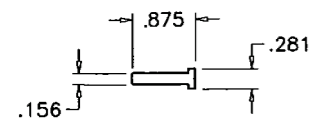
⑧ GLAZING ADAPTER



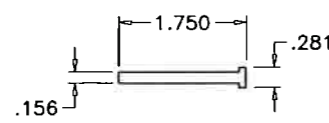
⑳⑨ FEMALE INTERMEDIATE HORIZONTAL



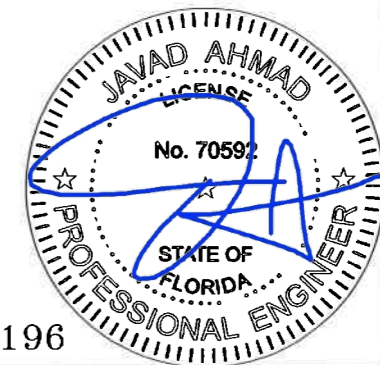
⑧A GLAZING ADAPTER



⑳⑬ GLASS SHELF (LAM. GLASS)



⑳⑬A GLASS SHELF (INSUL. LAM. GLASS)



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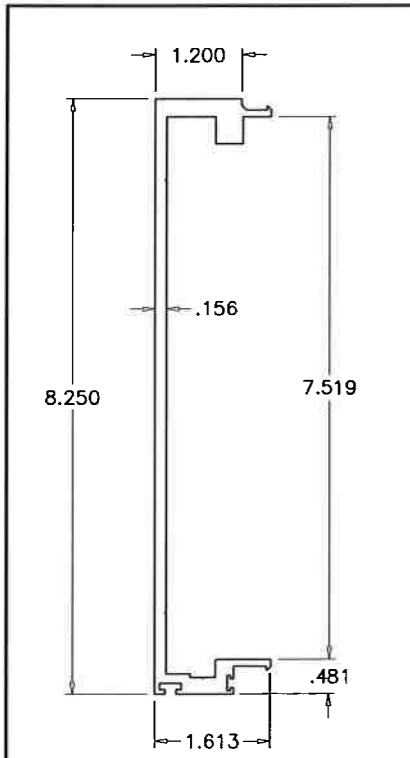
SERIES-2047 ALUM CURTAIN WALL SYSTEM (S.M.I.)
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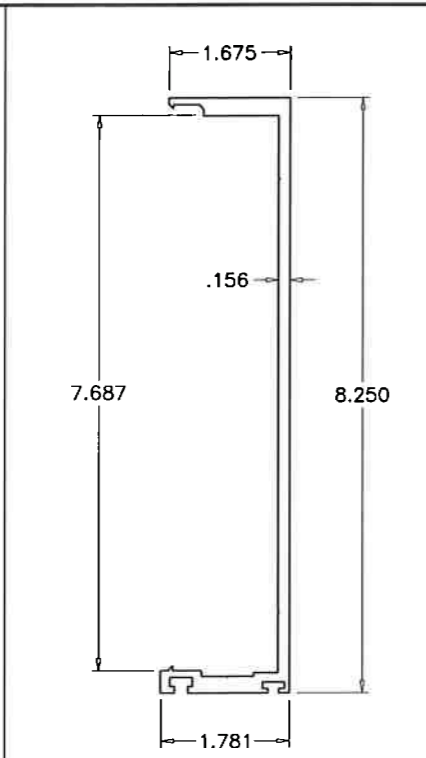
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 dr. by: TARIQ
 chk. by:

drawing no.
W17-87

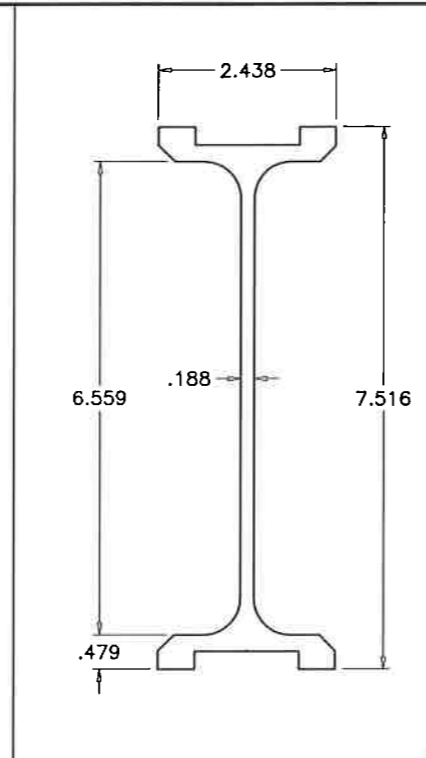
sheet 22 of 24



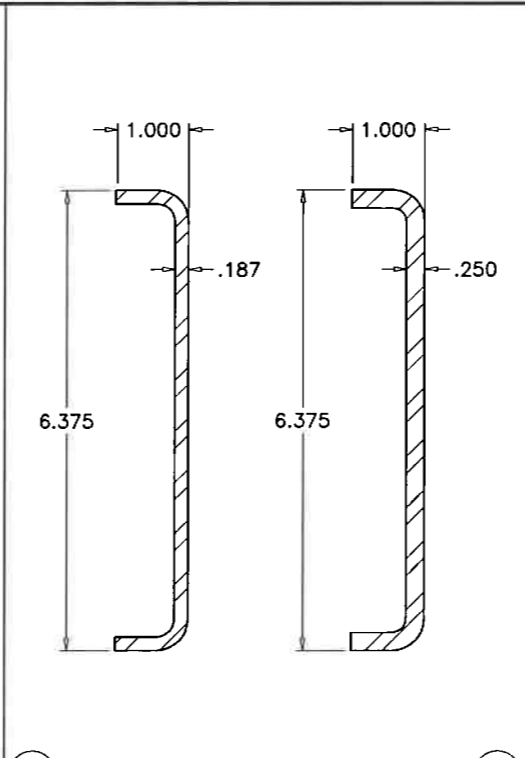
3A 8-1/4" MALE MULLION



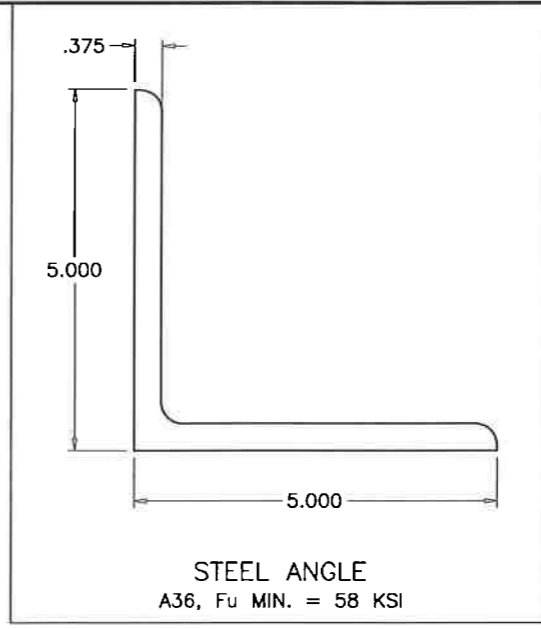
4A 8-1/4" FEMALE MULLION



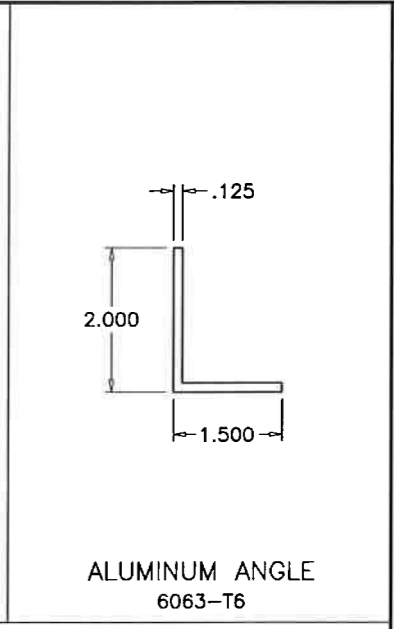
5A 7-1/2" SPLICE/STIFFENER



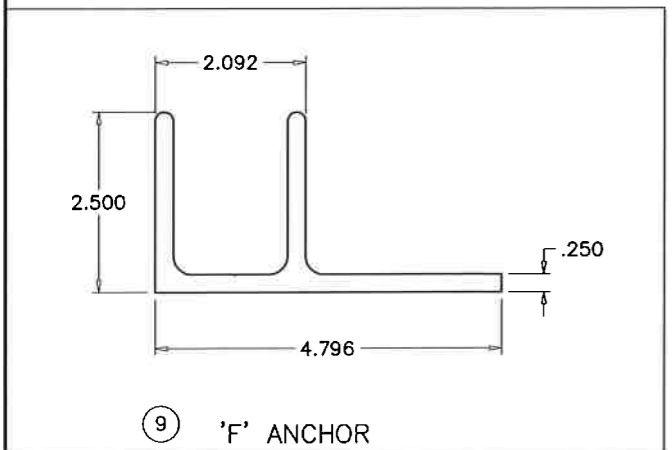
25A Fy=46 KSI 26A Fy=46 KSI
REINFORCING CHANNELS



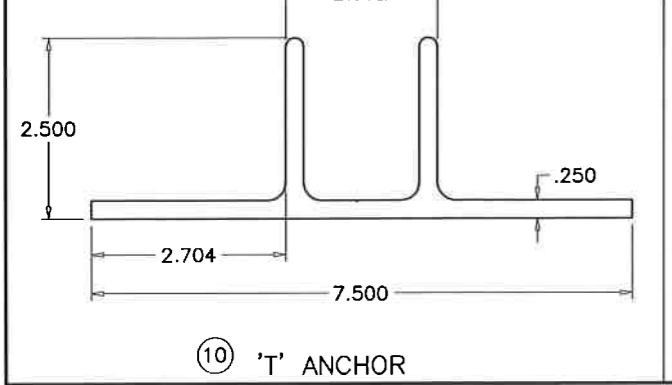
STEEL ANGLE
A36, Fu MIN. = 58 KSI



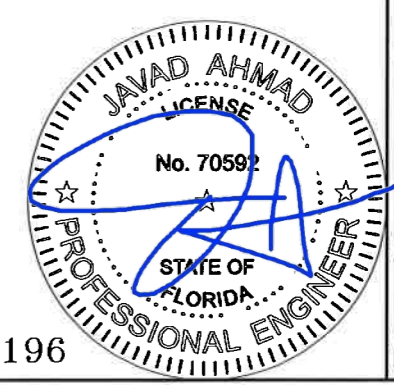
ALUMINUM ANGLE
6063-T6



9 'F' ANCHOR



10 'T' ANCHOR



FL #16196

Sealed 7/24/19

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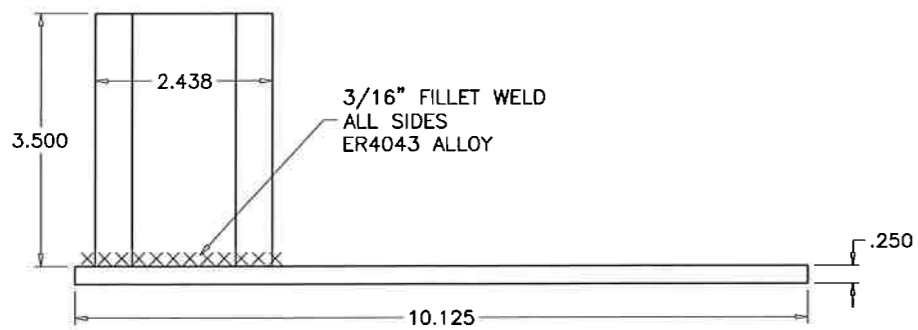
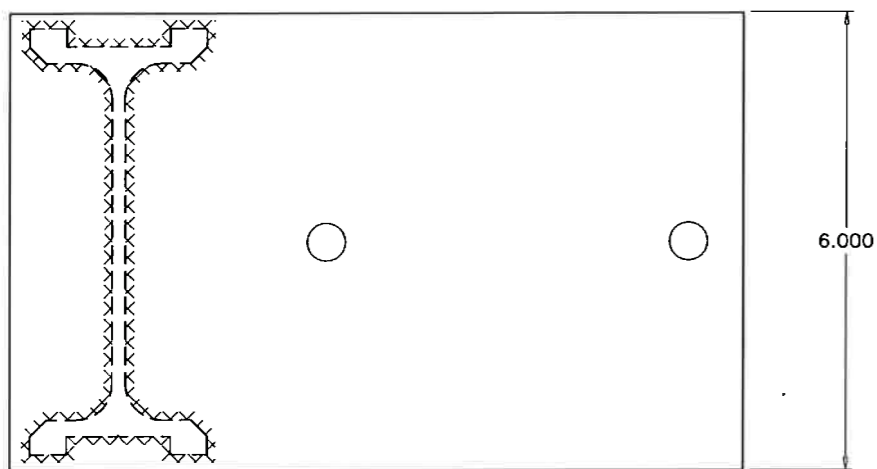
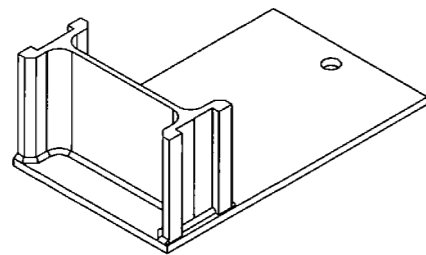
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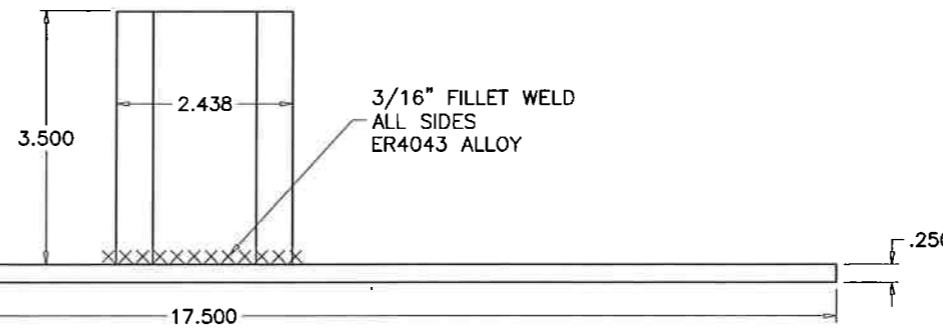
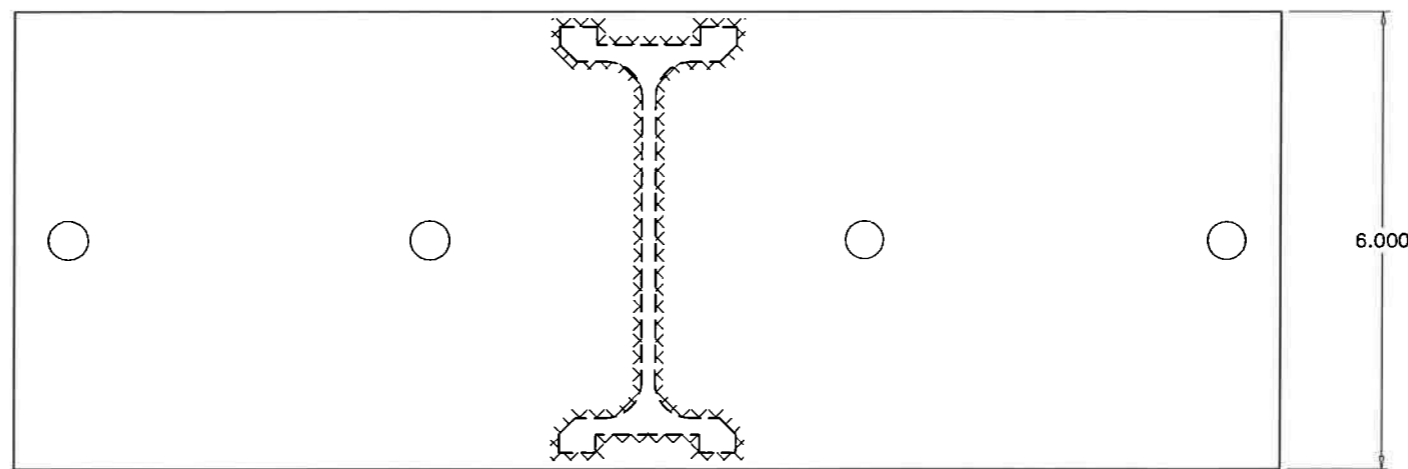
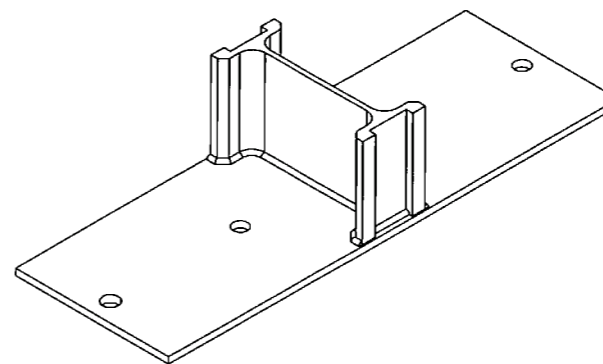
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dr. by: TARIQ
chk. by:

drawing no.
W17-87

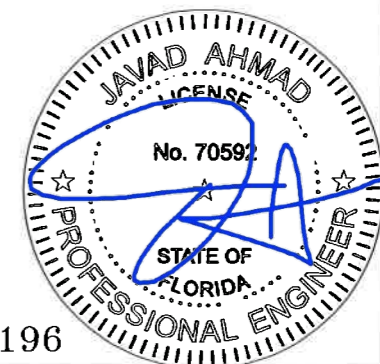
sheet 22.1 of 24



⑨A 'F' ANCHOR



⑩A 'T' ANCHOR



FL #16196

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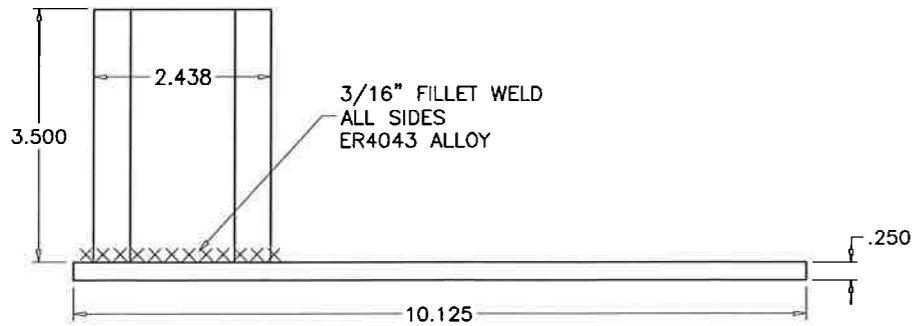
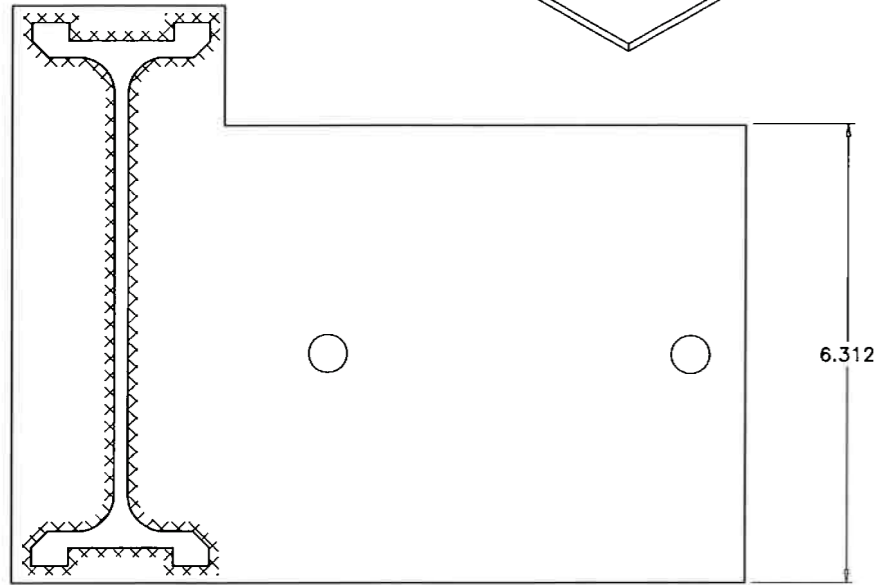
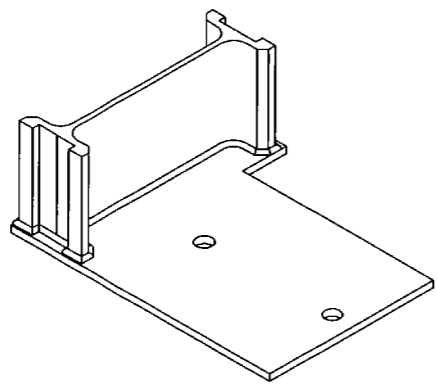
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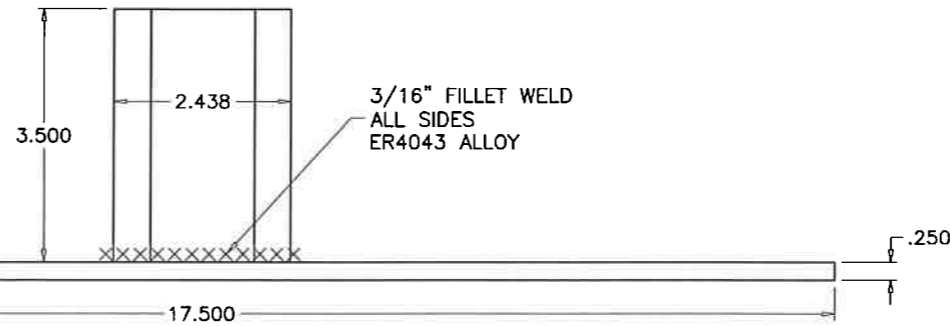
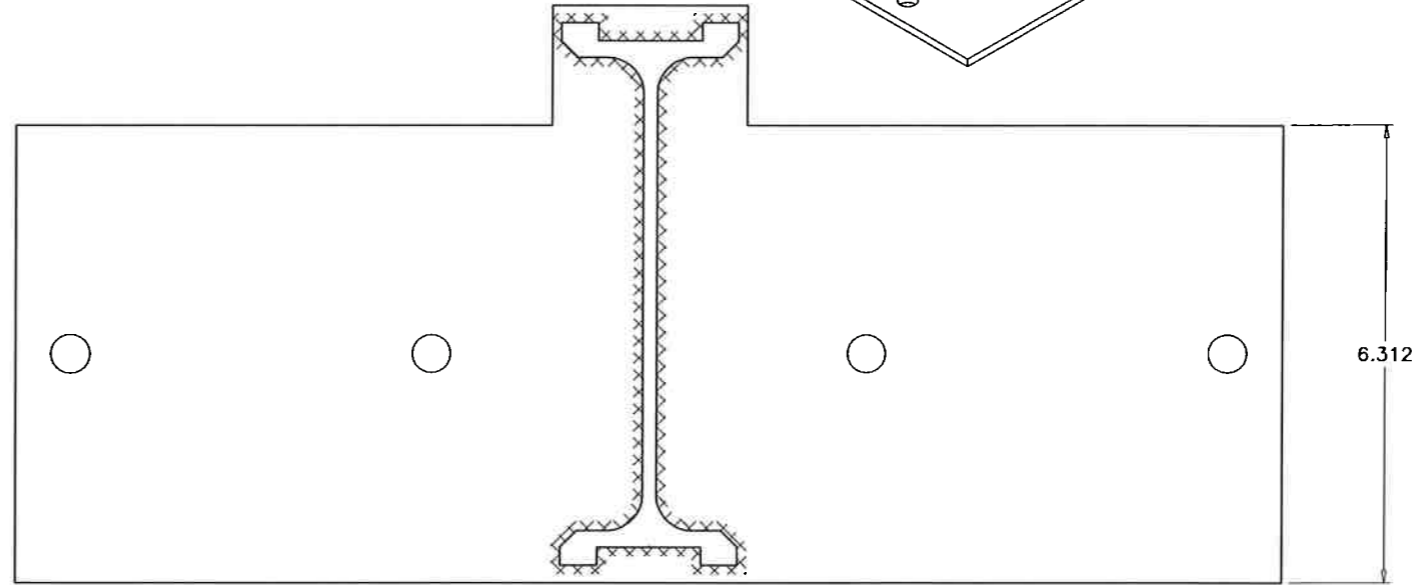
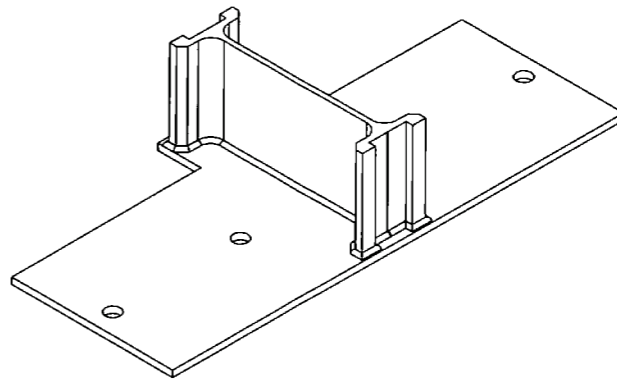
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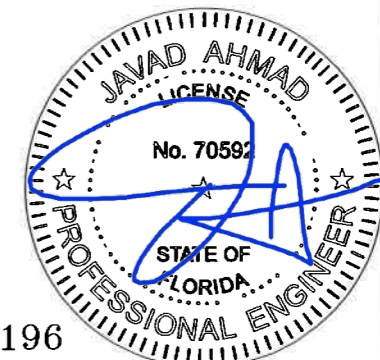
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9B 'F' ANCHOR



10B 'T' ANCHOR



FL #16196

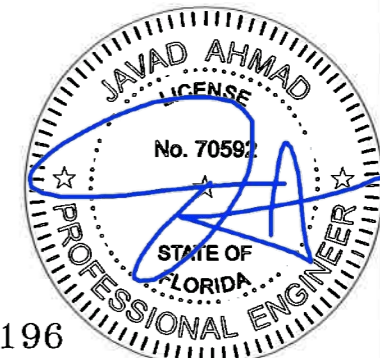
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drawing no. W17-87		sheet 22.3 of 24	

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	-



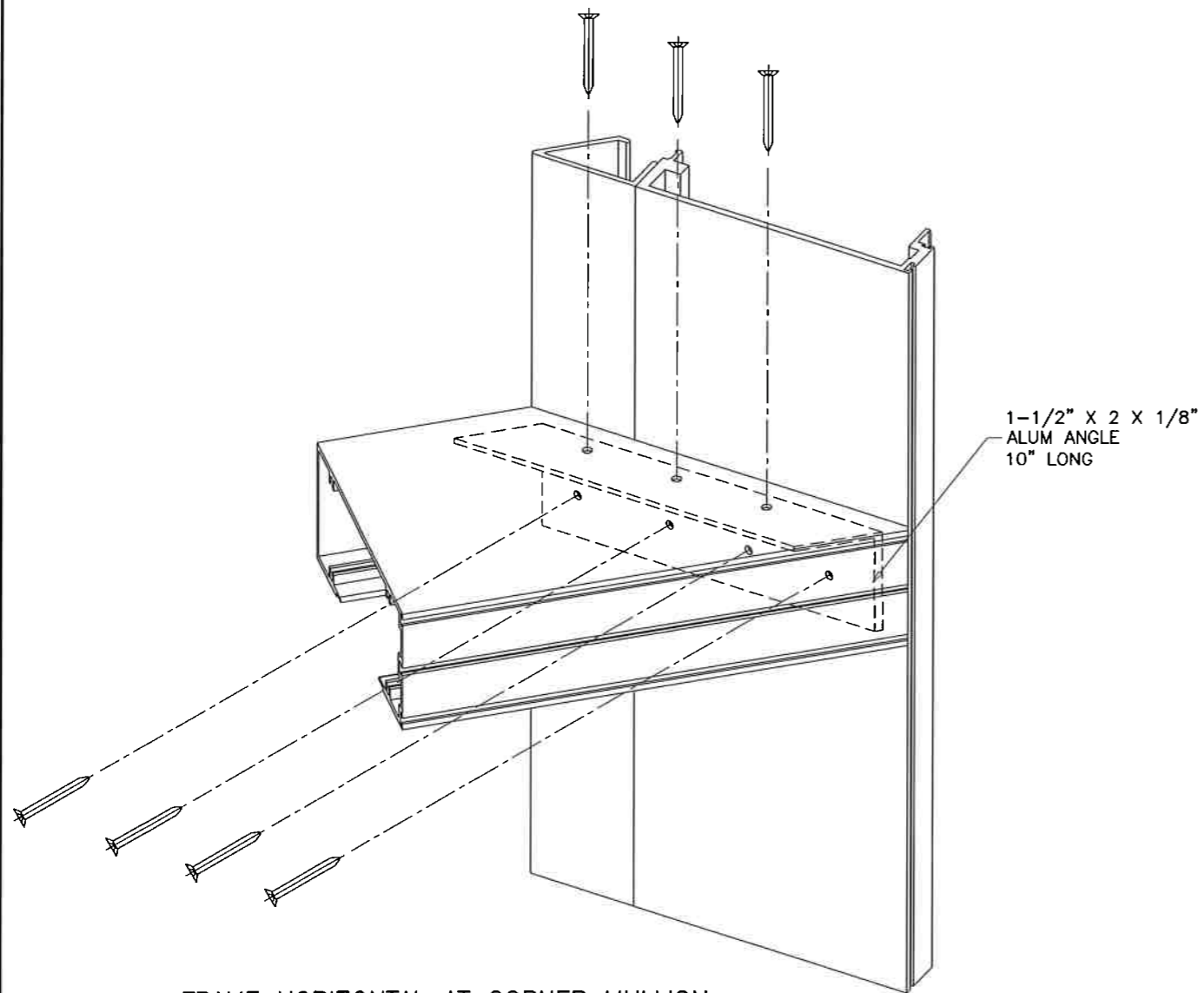
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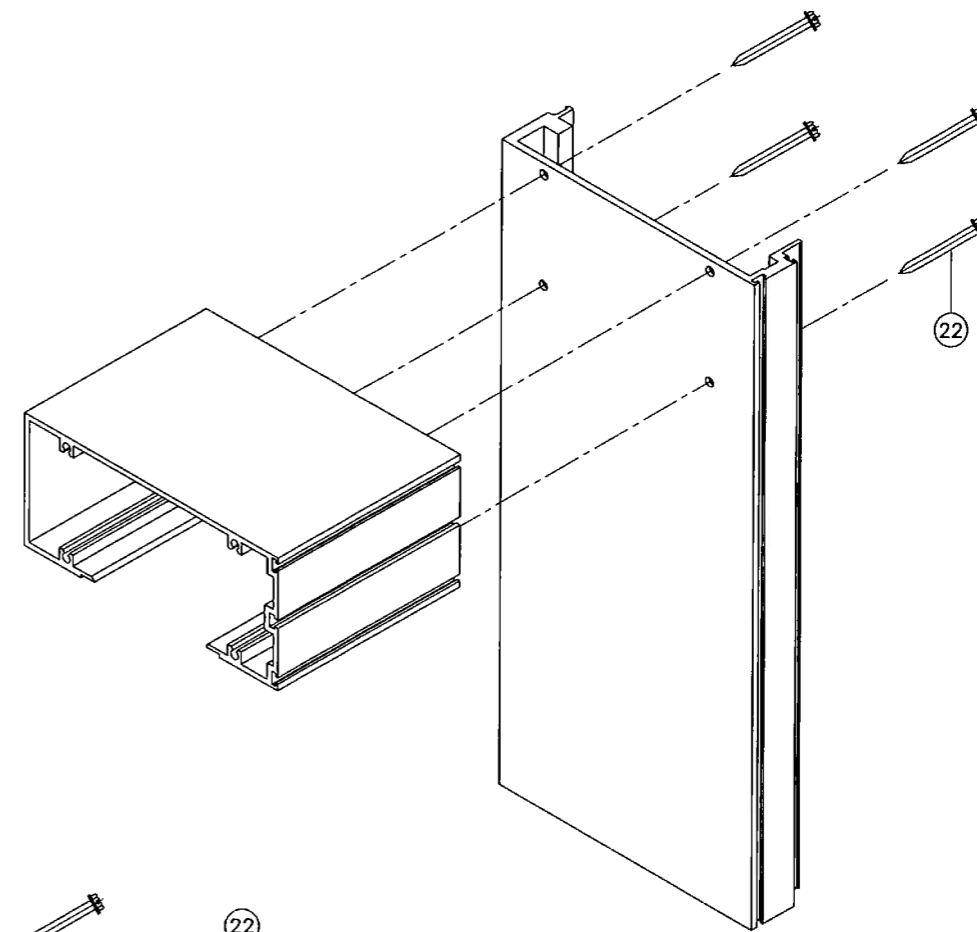
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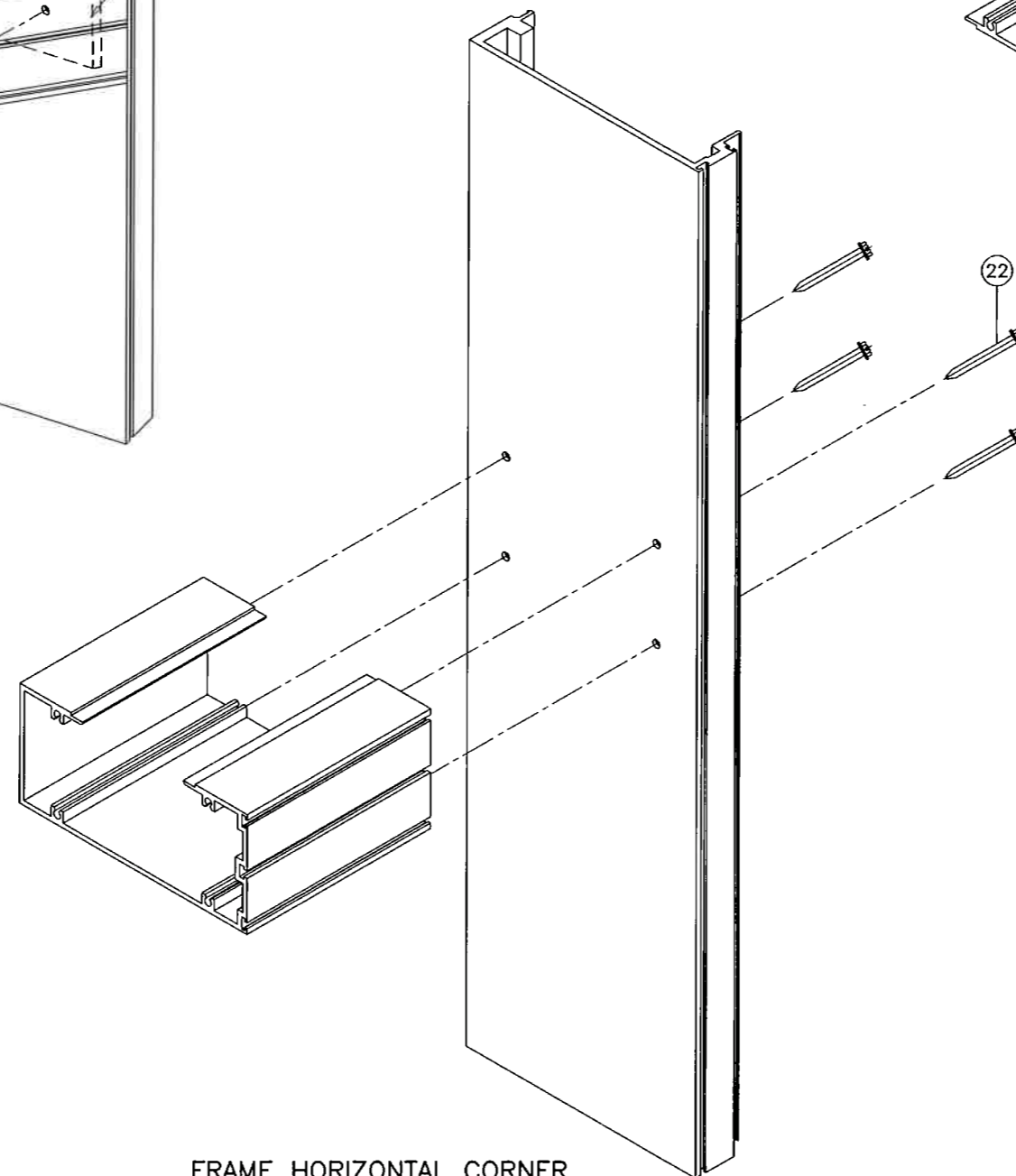
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W17-87
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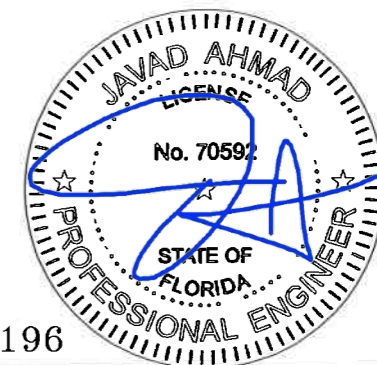
FRAME HORIZONTAL AT CORNER MULLION



FRAME TOP/BOTTOM CORNER



FRAME HORIZONTAL CORNER



FL #16196

afc

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 Miami, FL. 33166
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revisions:	no	date	by	description

date: 10-06-17
 scale: 3/8" = 1"
 dr. by: TARIQ
 chk. by:

drawing no.
W17-87

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