

SERIES 3090 WINDOW WALL
LARGE MISSILE IMPACT (L.M.I.)
IMPACT LEVEL "D"

GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 8TH EDITION OF FLORIDA BUILDING CODE (2023) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- WINDOW WALL RATED FOR LARGE MISSILE IMPACT, SYSTEM TESTED FOR IMPACT LEVEL "D".
- THESE WINDOWS ARE APPROVED FOR AIR AND WATER INFILTRATION.
- ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
- ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.
- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL / METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 8TH EDITION OF FLORIDA BUILDING CODE (2023) SECTION AS APPLICABLE.
- METAL STRUCTURAL AND / OR WOOD STRUCTURAL BY OTHERS TO BE DESIGNED TO SUPPORT THE LOADS IMPOSED BY THIS GLAZING SYSTEM AND TO TRANSFER SUCH LOADS TO THE BUILDING MAIN STRUCTURE.
- ULTIMATE LOAD OBTAINED FROM ASCE 7-22, MULTIPLY BY 0.6 SHALL BE LESS THAN OR EQUAL TO MAX. DESIGN LOAD IN THIS DOCUMENT. THE DESIGN LOADS SHOWN IN THIS DOCUMENT ARE ALLOWABLE DESIGN LOADS.
- MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE LABELING TO COMPLY WITH SECTION 1709.9.2.

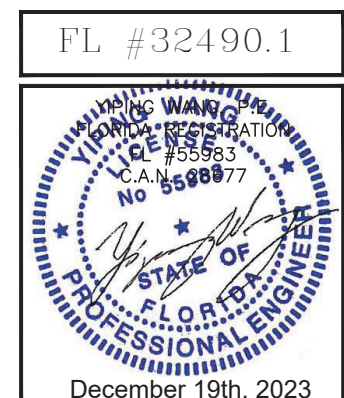
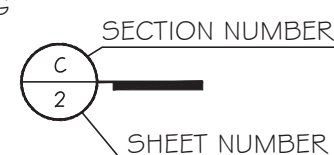
INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- STEP 1: DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-22 STANDARD.
- STEP 2: SEE CHART ON G1 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE BASED ON APPLICABLE WIND DURATION.
- STEP 3: CHECK MULLION AND JAMB CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHART ON M1 & M2. THE CAPACITY SHOULD EXCEED THE JOB DESIGN LOAD.
- STEP 4: SEE ANCHOR TYPE ON SHEET A1.
SEE SHEET A2 & A3 FOR NUMBER OF ANCHORS AND CAPACITIES ALLOWED FOR SIZE.
- STEP 5: THE LOWEST VALUE RESULTING FROM STEPS 2, 3 & 4 THAT EXCEED THE DESIGN WIND PRESSURES DETERMINED THRU STEP 1 SHALL APPLY TO ENTIRE SYSTEM. WHEN USE SYSTEM WITH DOOR, THE LOWER VALUE OF THE DESIGN PRESSURE RATING FOR THE SYSTEM AND THE DOOR SHALL APPLY.

ABBREVIATIONS AND SYMBOLS

D.L.O. - DAYLIGHT OPENING
F.H. - FRAME HEIGHT
F.W. - FRAME WIDTH
W/ - WITH
W/O - WITHOUT
O.C. - ON CENTER



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GLAZING CONSULTANTS

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SERIES 3090 WINDOW WALL -LMI

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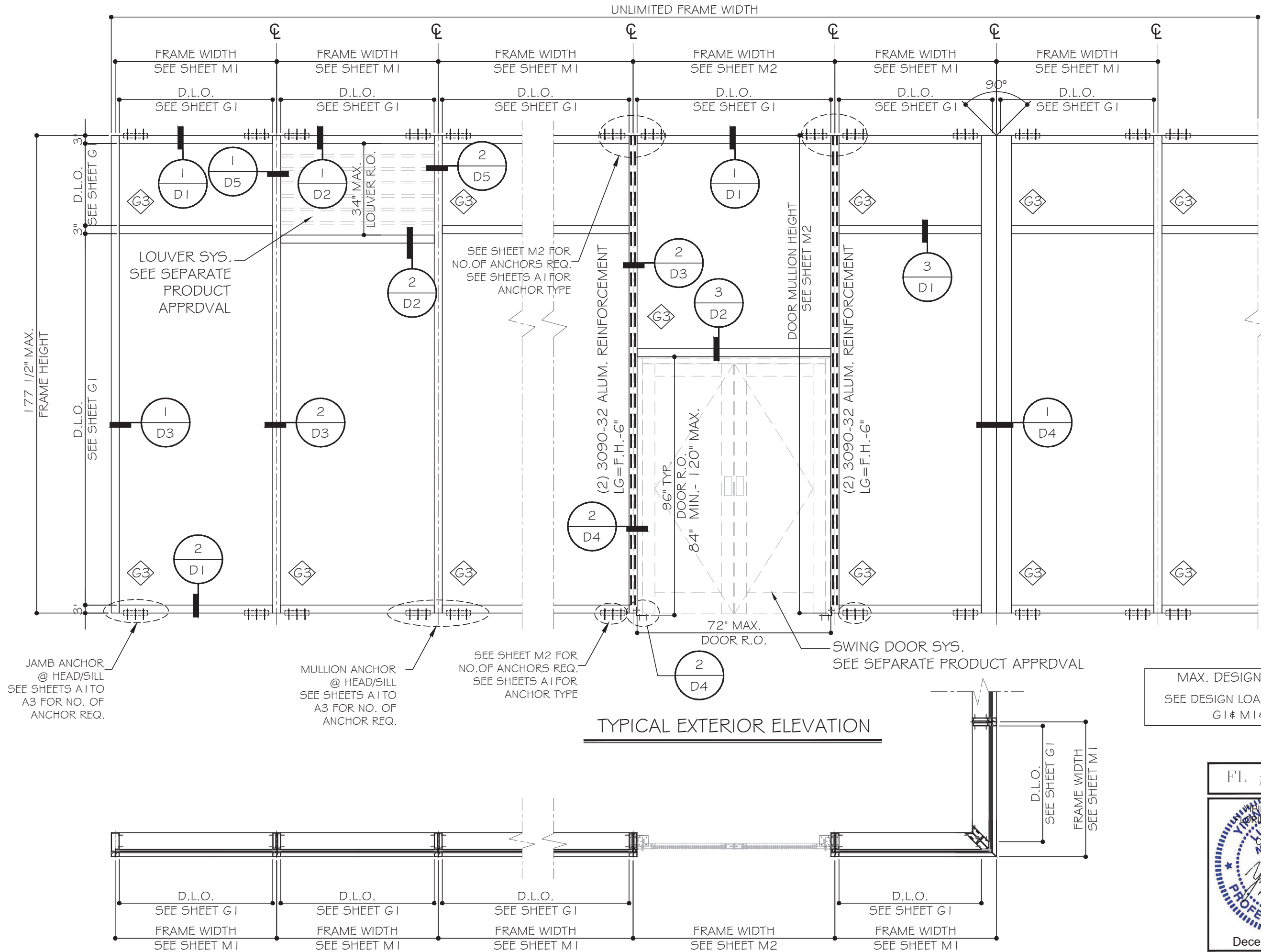
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AD20-26

COVER

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1 OF 17



TYPICAL EXTERIOR ELEVATION

MAX. DESIGN LOAD
SEE DESIGN LOAD ON SHEET
G1 & M1 & M2

FL #32490.1

December 19th, 2023

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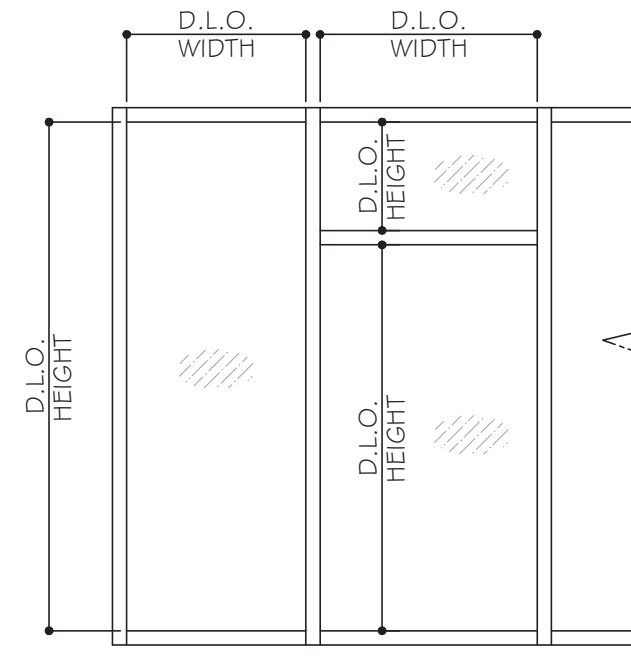
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AD20-26

E1

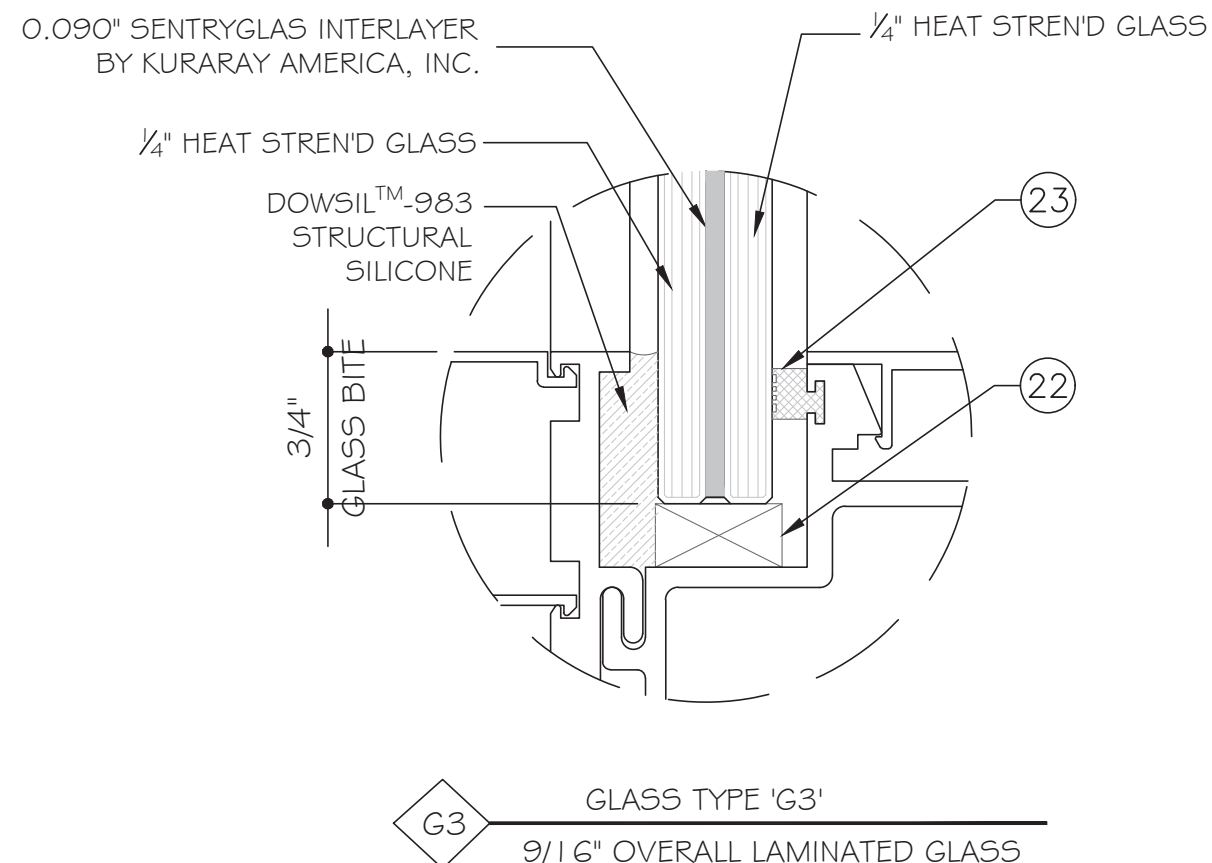
Sheet No.
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CHART 1: GLASS CAPACITIES-LMI

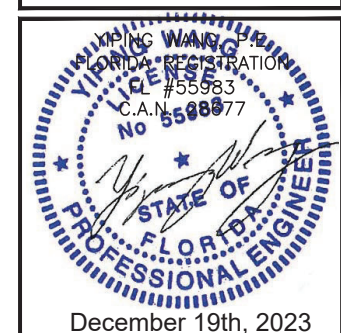
GLASS LOAD CAPACITY		
DAYLIGHT OPENING	GLASS TYPES	
MAX. D.L.O. AREA	G3	
(FT ^ 2)	+(PSF)	-(PSF)
54.625	90	90



NOTE:
GLASS COMPLIES WITH ASTM E1300-16
(3 SEC. GUSTS).



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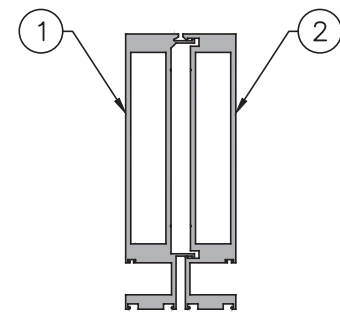
DRAWING NO.
AD20-26

G1

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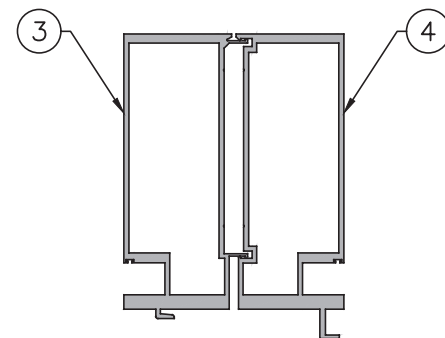
CHART 2: MULLION CAPACITIES

MULLION LOAD CAPACITIES									
NOMINAL DIMENSIONS		MULLION TYPES							
FRAME WIDTH MAX.	FRAME HEIGHT MAX.	M 1		M2		C 1		J 1	
(INCH)	(INCH)	+(PSF)	-(PSF)	+(PSF)	-(PSF)	+(PSF)	-(PSF)	+(PSF)	-(PSF)
54	177 1/2	90	90	90	90	90	90	90	90
68 3/4	177 1/2	-	-	90	90	90	90	90	90
77 1/2	177 1/2	-	-	-	-	90	90	90	90



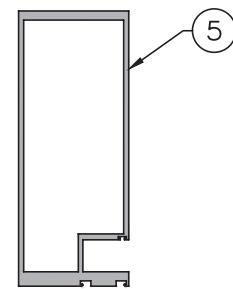
MULLION 'MI'

	$I_x \text{ IN}^4$	$S_x \text{ IN}^3$
ALUMINUM	43.6576	11.4037



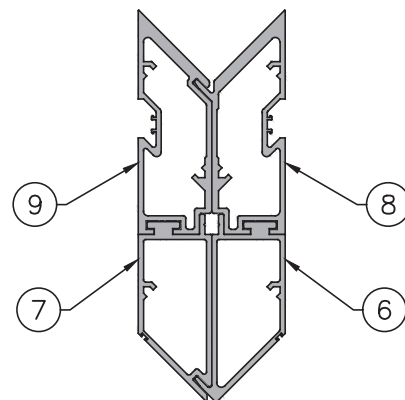
MULLION 'M2'

	$I_x \text{ IN}^4$	$S_x \text{ IN}^3$
ALUMINUM	67.6468	15.4350



MULLION 'JI'

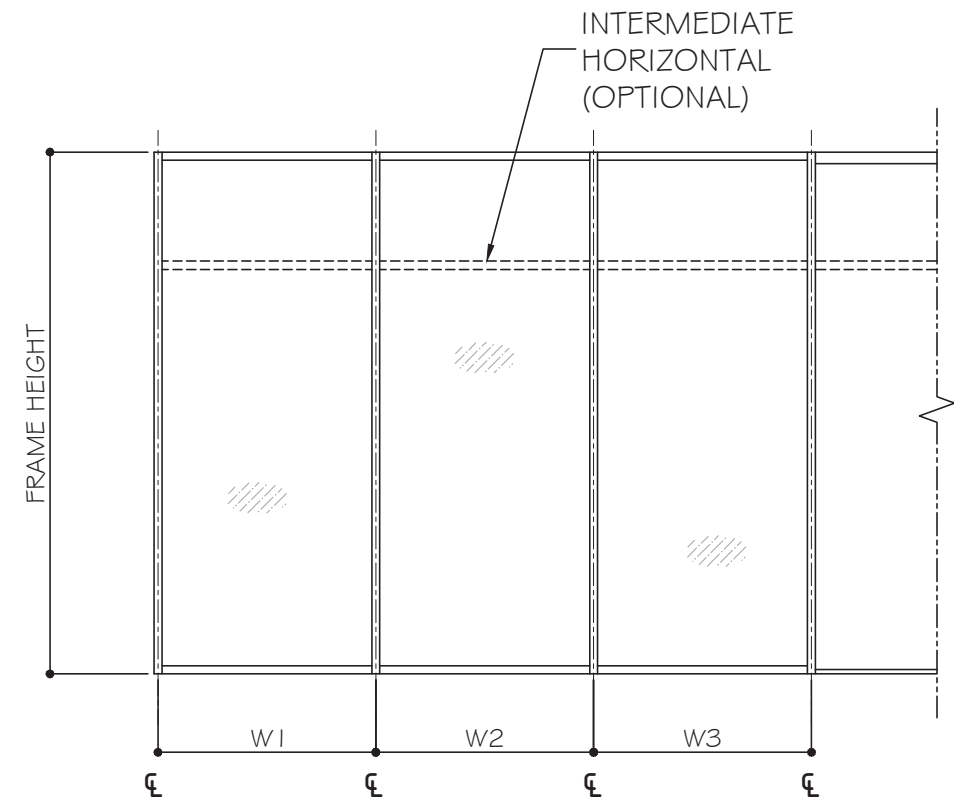
	$I_x \text{ IN}^4$	$S_x \text{ IN}^3$
ALUMINUM	31.7090	7.7151



CORNER MULLION 'C1'

	$I_x \text{ IN}^4$	$S_x \text{ IN}^3$
ALUMINUM	84.38	15.002

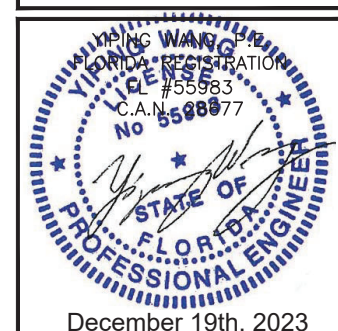
NOTE:
CORNER MULLION CHECKED WITH EQUAL POSITIVE LOAD OR EQUAL NEGATIVE LOAD APPLIED ON BOTH SIDES. CONDITION OTHER THAN ABOVE, TO BE ENGINEERED SEPARATELY ON JOB BASES.
EQUAL LOAD:
 $Bx \cdot wnx = By \cdot wny$ or $Bx \cdot wpx = By \cdot wpy$
 Bx, By - PANEL WIDTH AT X, Y DIRECTION
 wnx, wny - NEGATIVE WIND LOAD AT AT X, Y DIRECTION
 wpx, wpy - POSITIVE WIND LOAD AT AT X, Y DIRECTION



FRAME WIDTH = W1
AT JAMB

$$\text{FRAME WIDTH AT MULLION} = \frac{W_2 + W_3}{2}$$

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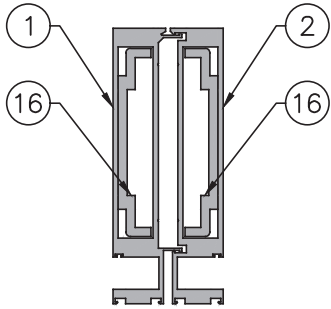
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TEL. (305) 231-1101 FAX. (305) 231-1103

[illegible]

CHART 3: MULLION CAPACITIES

MULLION LOAD CAPACITIES			
NOMINAL DIMENSIONS		MULLION TYPES	
SIDELITE WIDTH MAX.	FRAME HEIGHT MAX.	MD I	
(INCH)	(INCH)	+(PSF)	-(PSF)
60	177 1/2	90	90

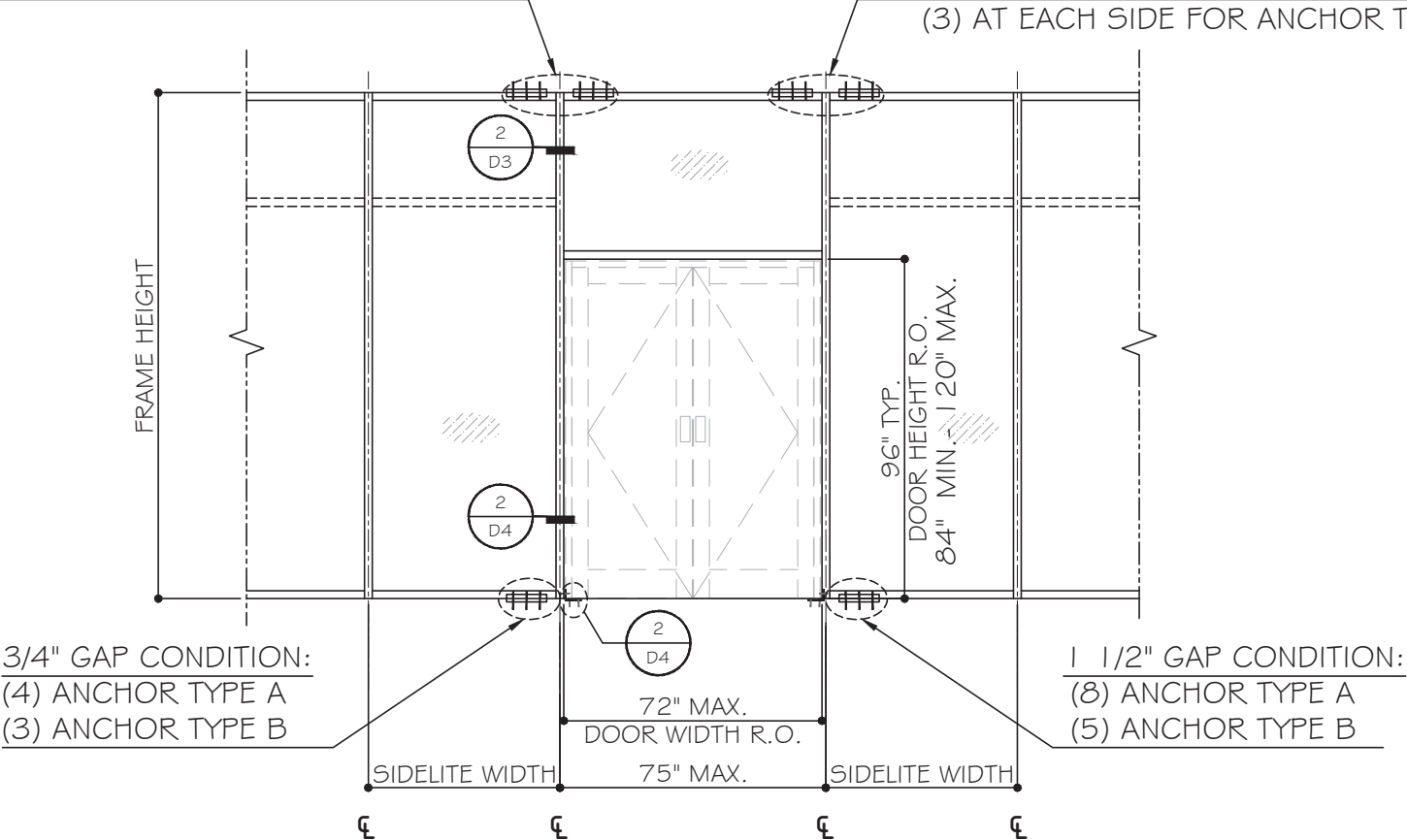


MULLION 'MD I'

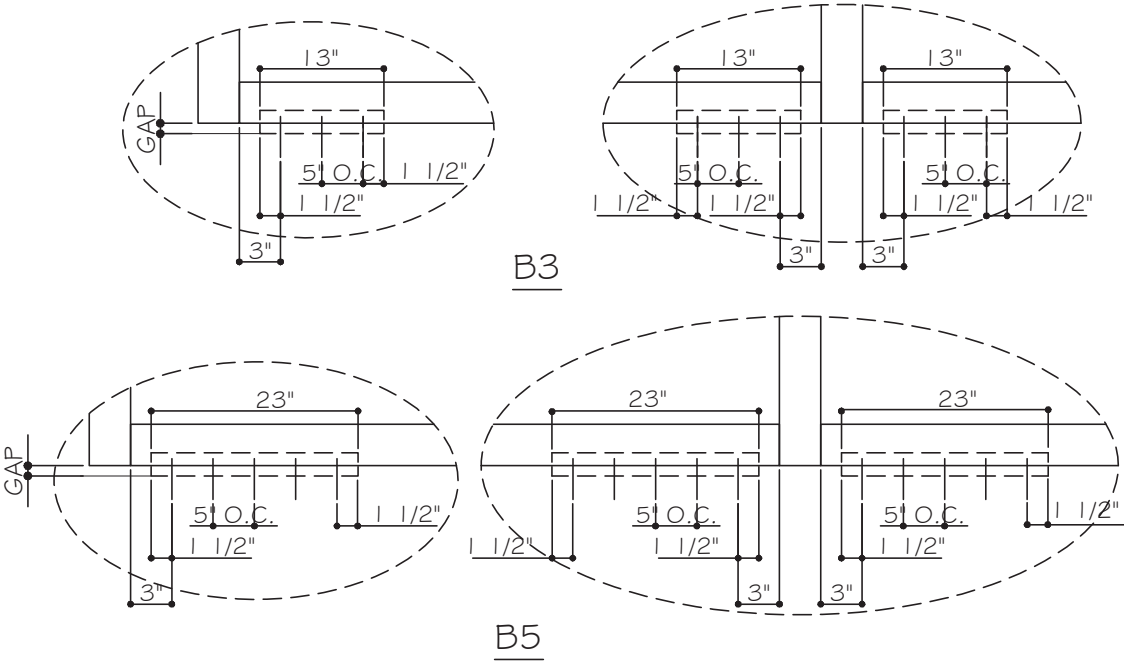
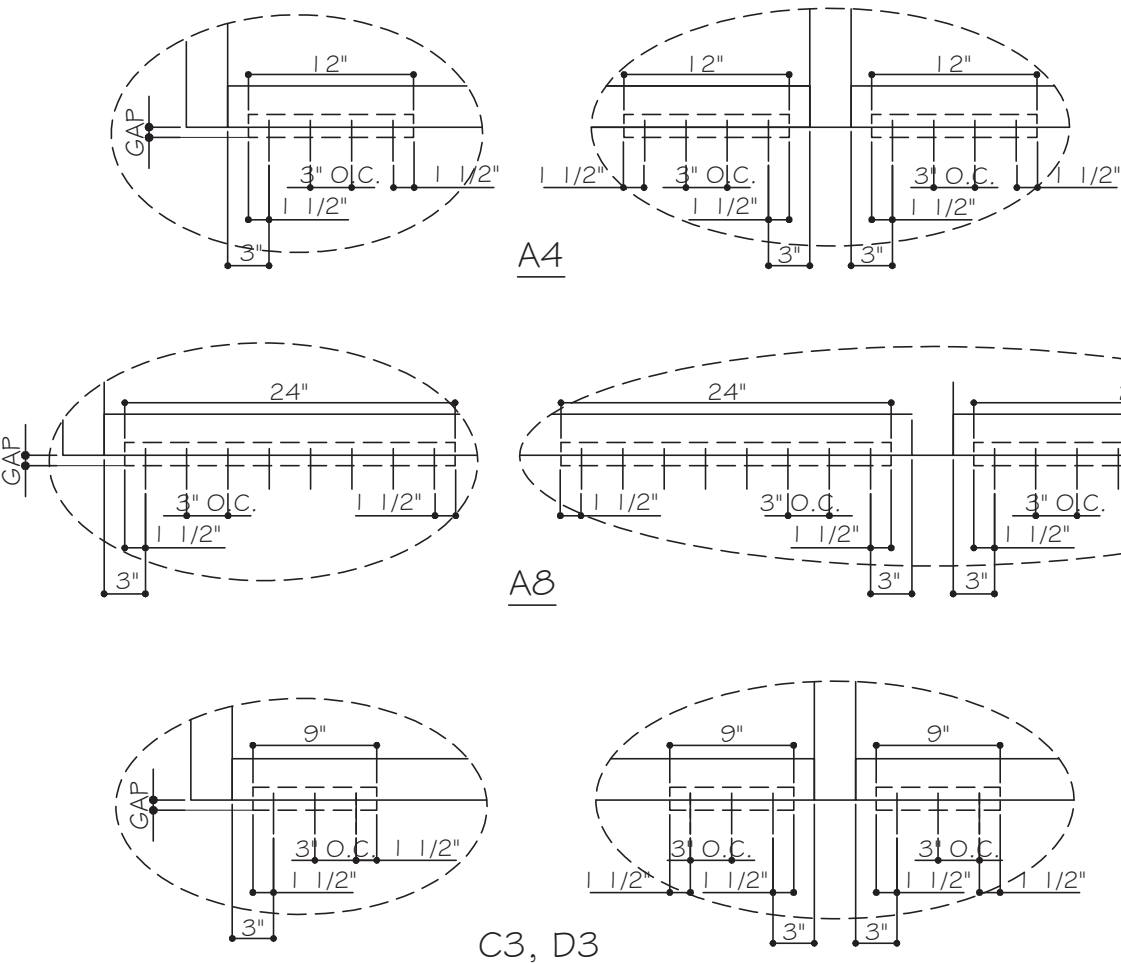
	1x IN^4	5x IN^3
ALUMINUM	52.5926	13.7376

3/4" GAP CONDITION:
(4) AT EACH SIDE FOR ANCHOR TYPE A
(3) AT EACH SIDE FOR ANCHOR TYPE B,C,D

1 1/2" GAP CONDITION:
(8) AT EACH SIDE FOR ANCHOR TYPE A
(5) AT EACH SIDE FOR ANCHOR TYPE B
(3) AT EACH SIDE FOR ANCHOR TYPE C & D



SEE SHEET A I FOR ANCHOR TYPE



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	12/19/2023		AS SHOWN

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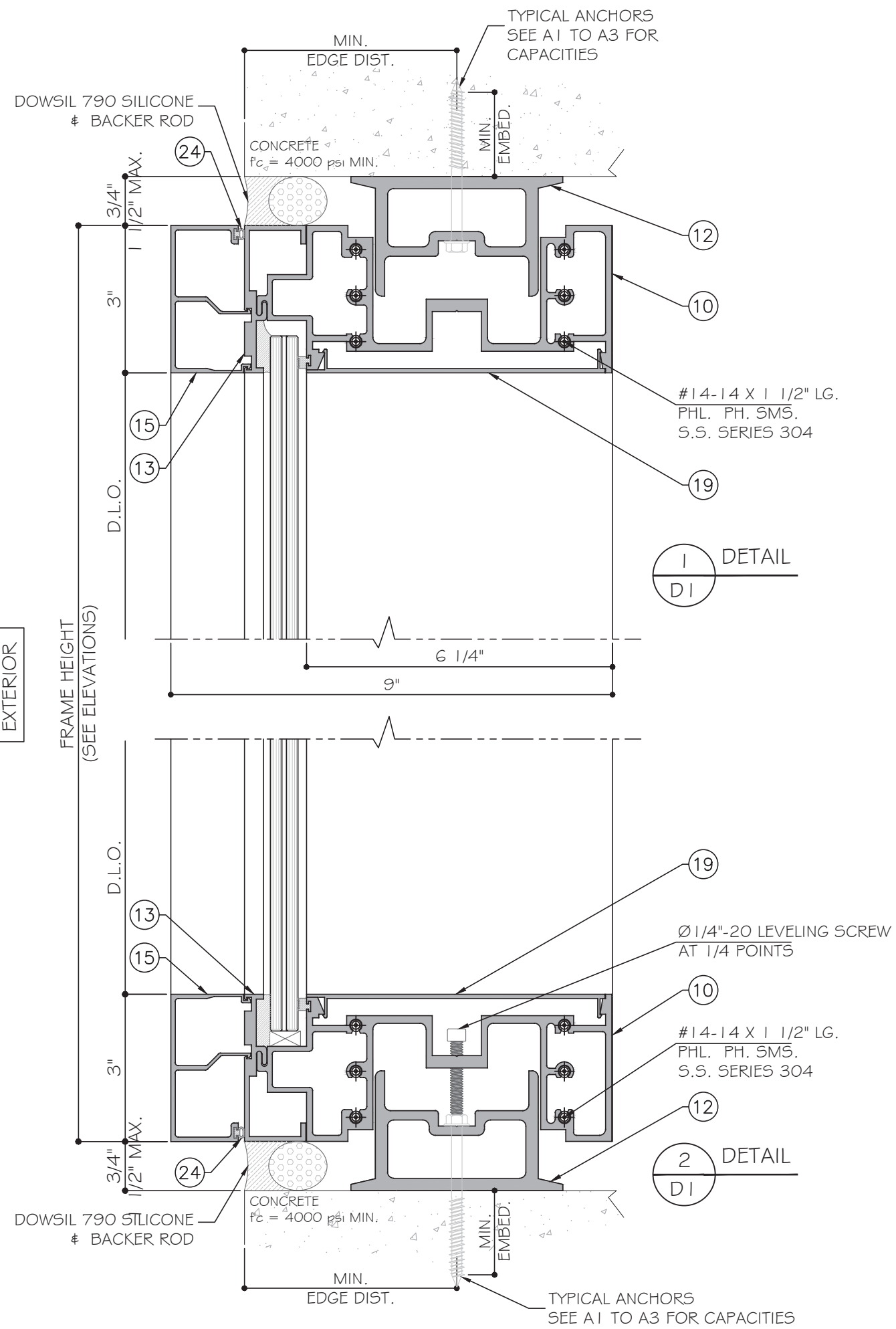
M2

Sheet No.

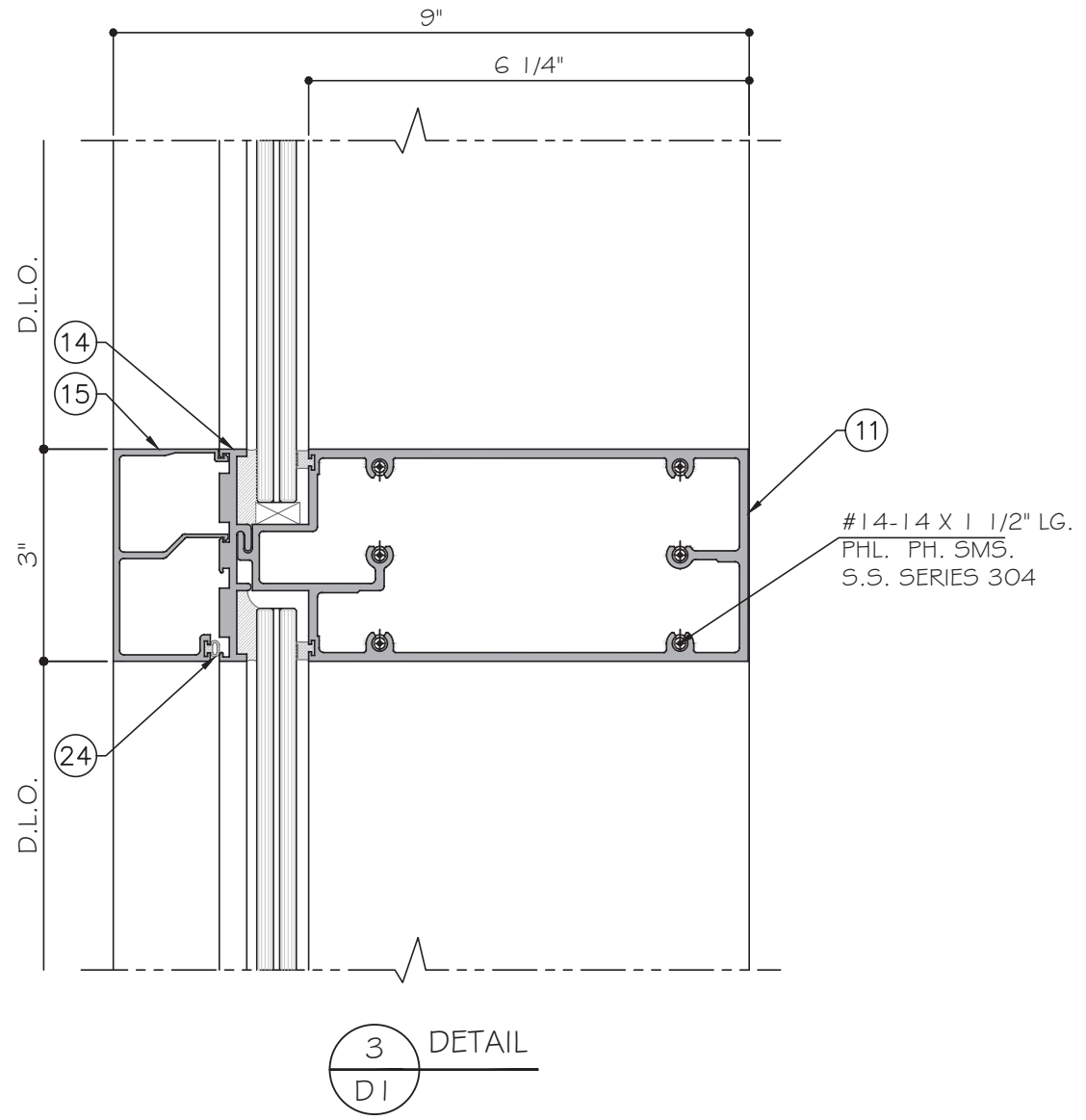
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EXTERIOR

FRAME HEIGHT
(SEE ELEVATIONS)



EXTERIOR



FL #32490.1

YIPING WANG
FLORIDA REGISTRATION
No. 55983
C.A.N. 98677

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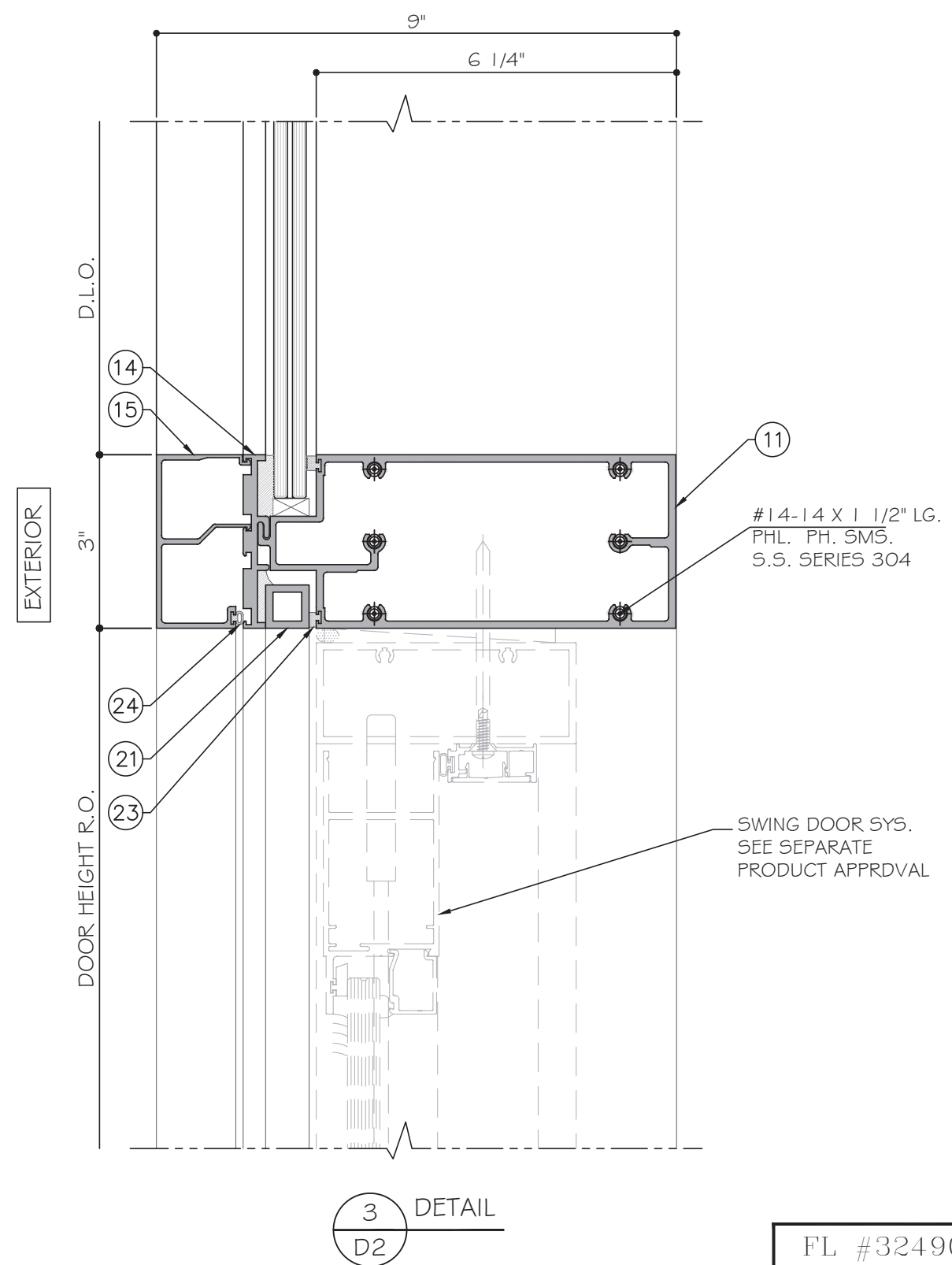
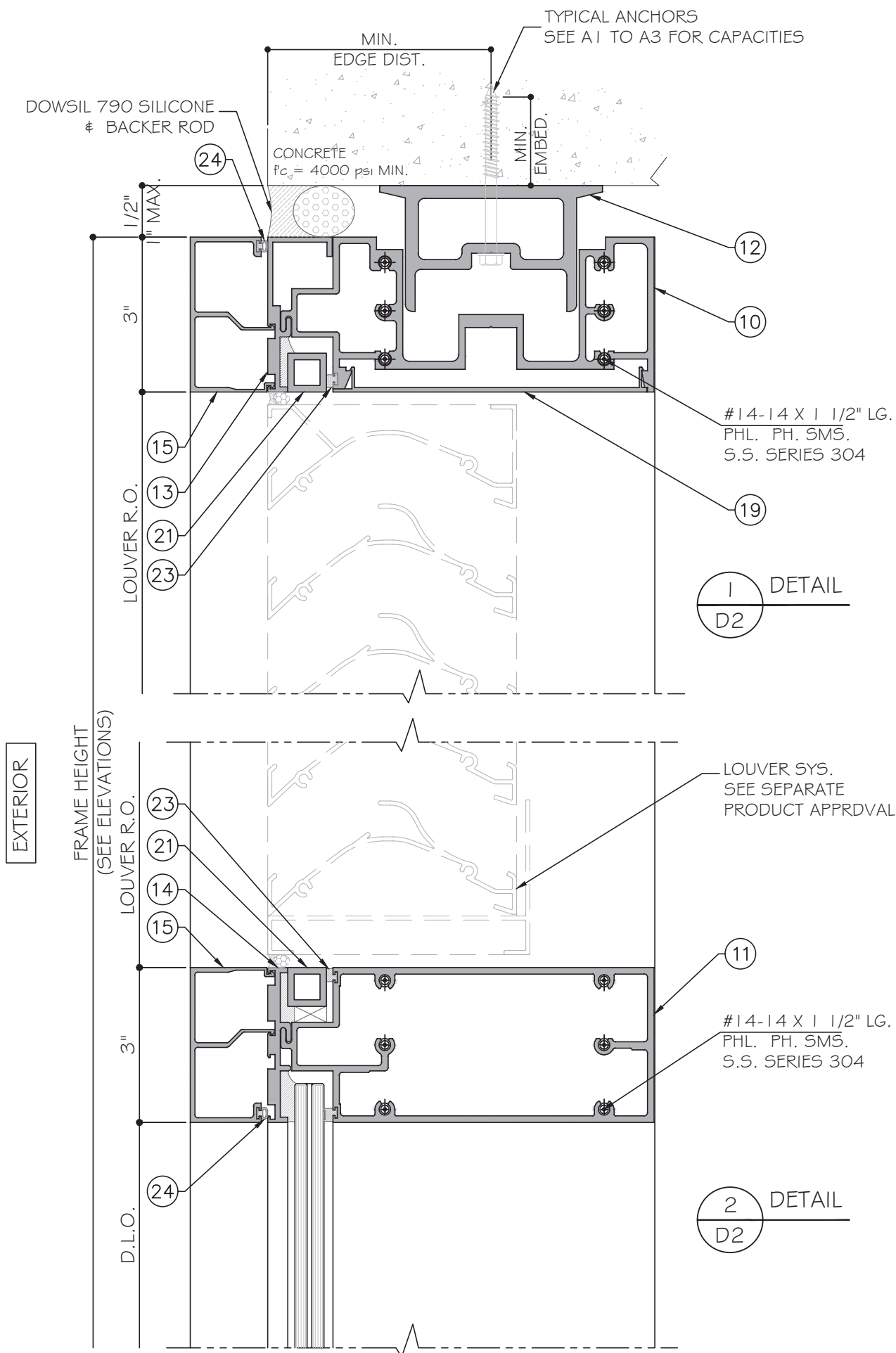
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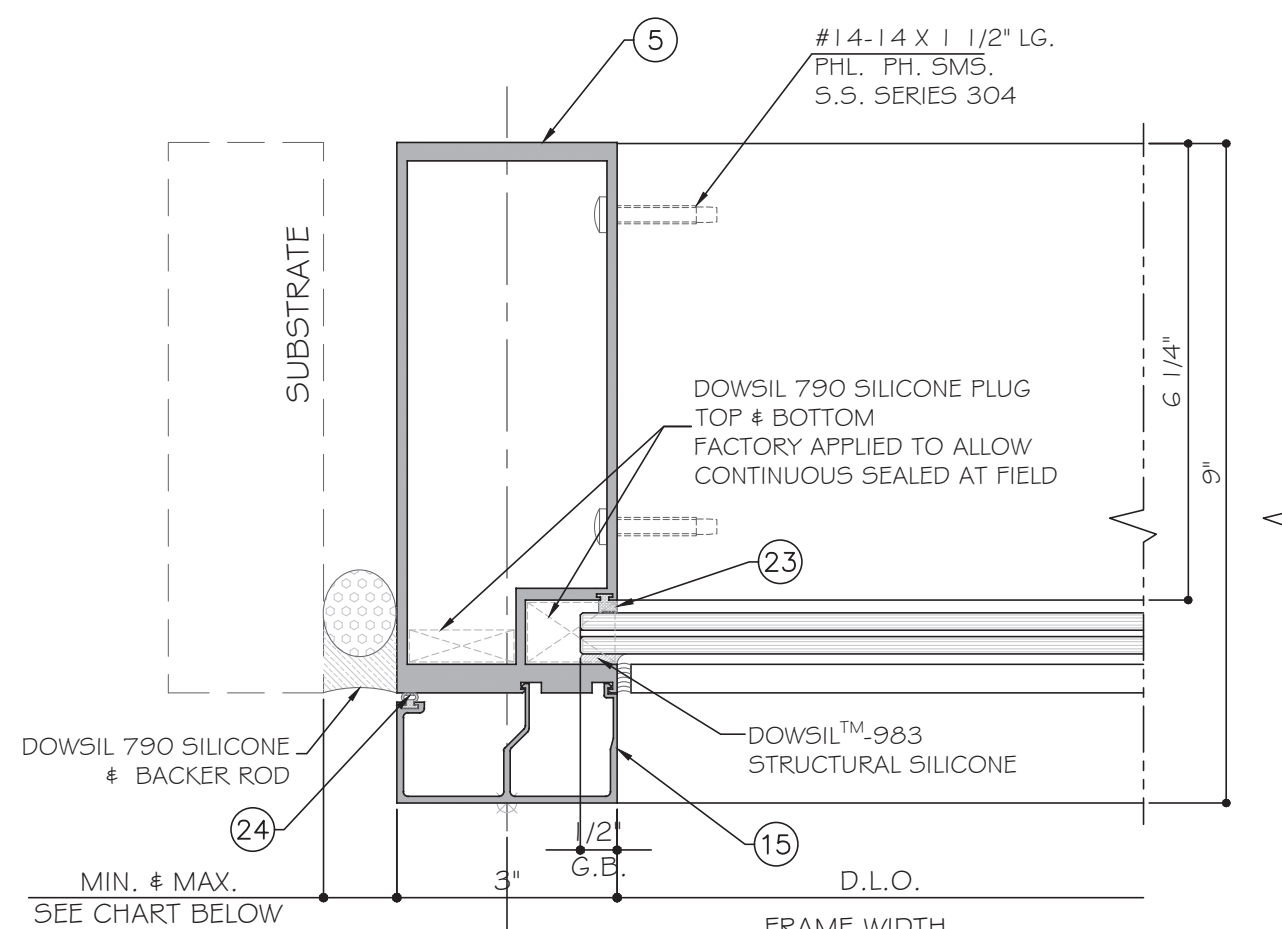
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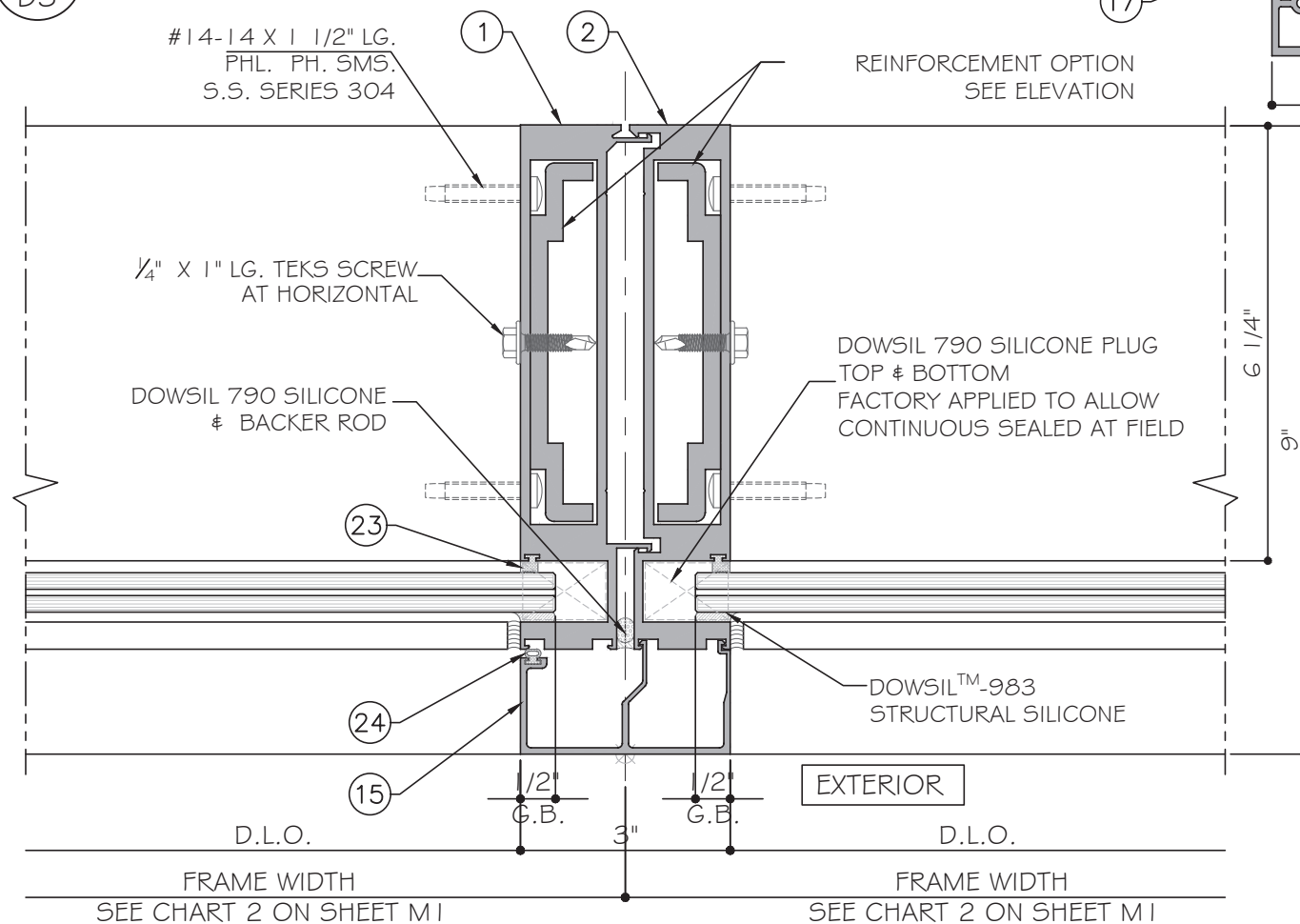
D2

Sheet No.

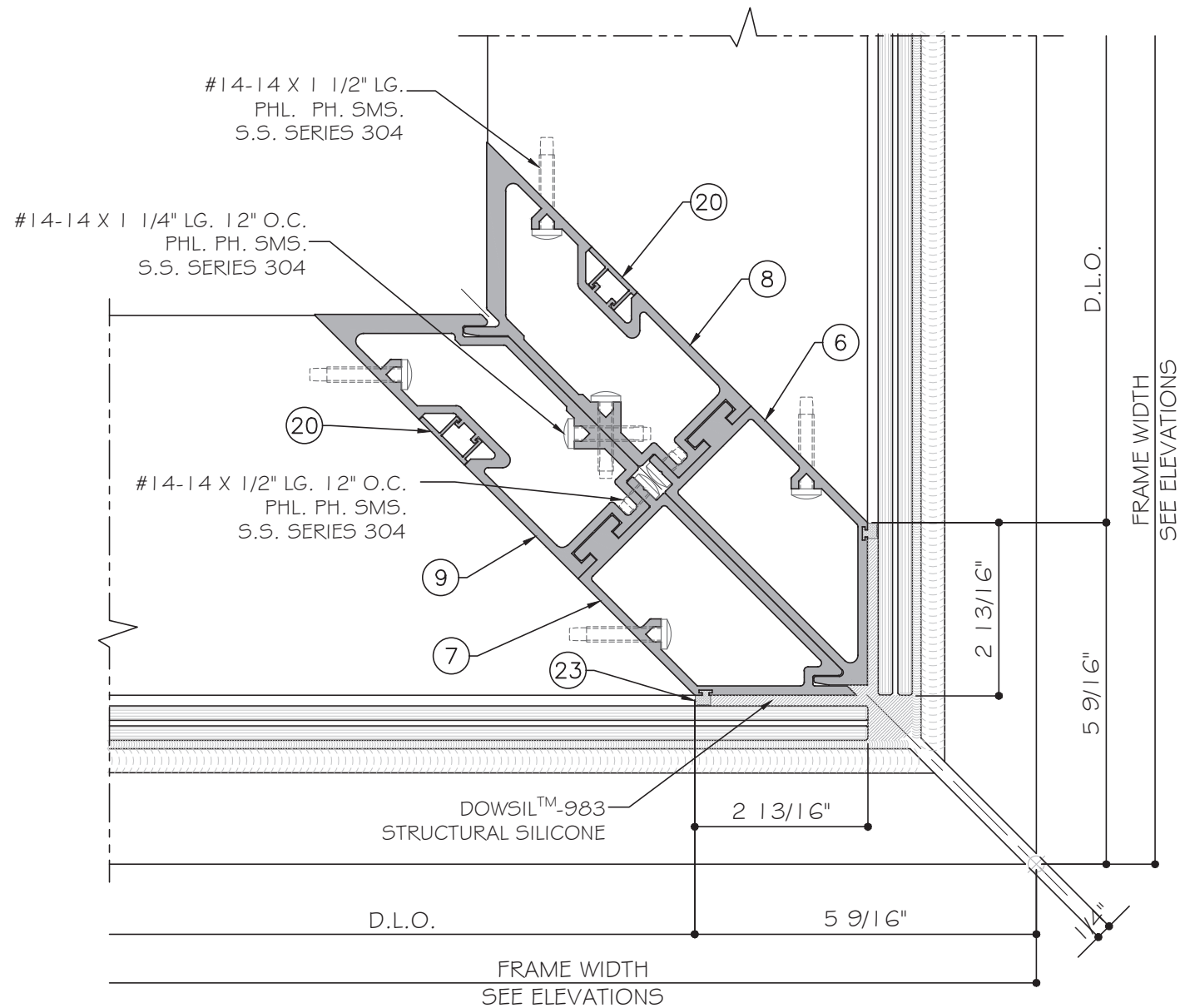
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MAX. FRAME HEIGHT	GAP	
	MIN.	MAX.
120"	1/2"	1 1/2"
144"	1/2"	1 1/2"
168	5/8"	1 1/2"
177 1/2"	3/4"	1 1/2"



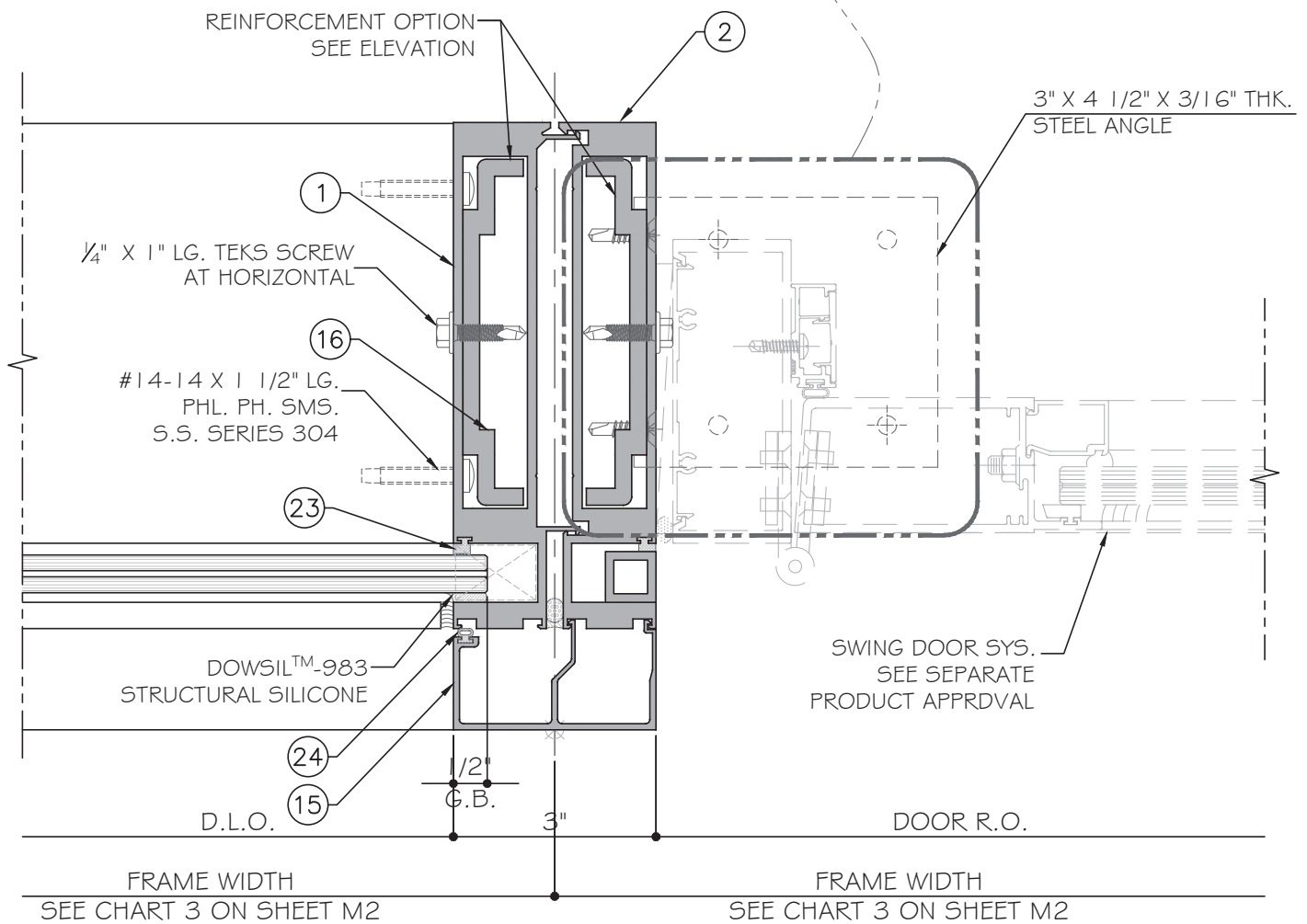
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EXTERIOR

1
D4
DETAIL

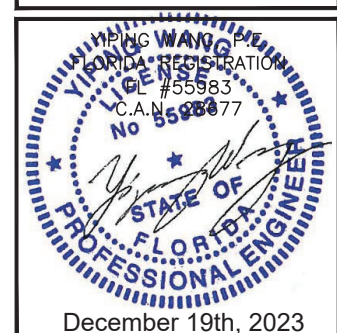
NOTE:
CORNER MULLION CHECKED WITH EQUAL POSITIVE
LOAD OR EQUAL NEGATIVE LOAD APPLIED ON BOTH
SIDES. CONDITION OTHER THAN ABOVE, TO BE
ENGINEERED SEPARATELY ON JOB BASES.
EQUAL LOAD:
 $B_x \cdot w_{nx} = B_y \cdot w_{ny}$ or $B_x \cdot w_{px} = B_y \cdot w_{py}$
 B_x, B_y - PANEL WIDTH AT X, Y DIRECTION
 w_{nx}, w_{ny} - NEGATIVE WIND LOAD AT AT X, Y DIRECTION
 w_{px}, w_{py} - POSITIVE WIND LOAD AT AT X, Y DIRECTION



EXTERIOR

2
D4
DETAIL

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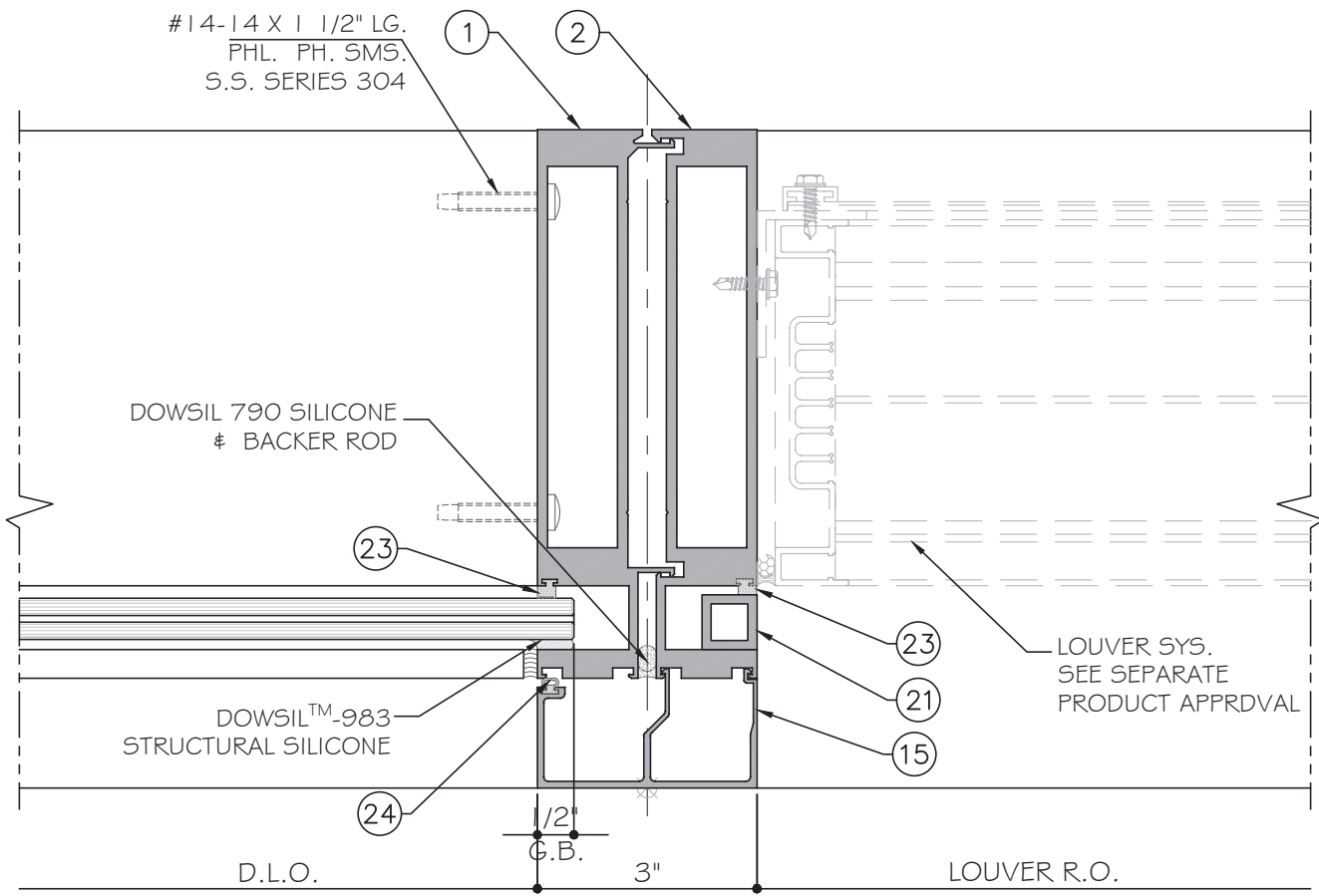
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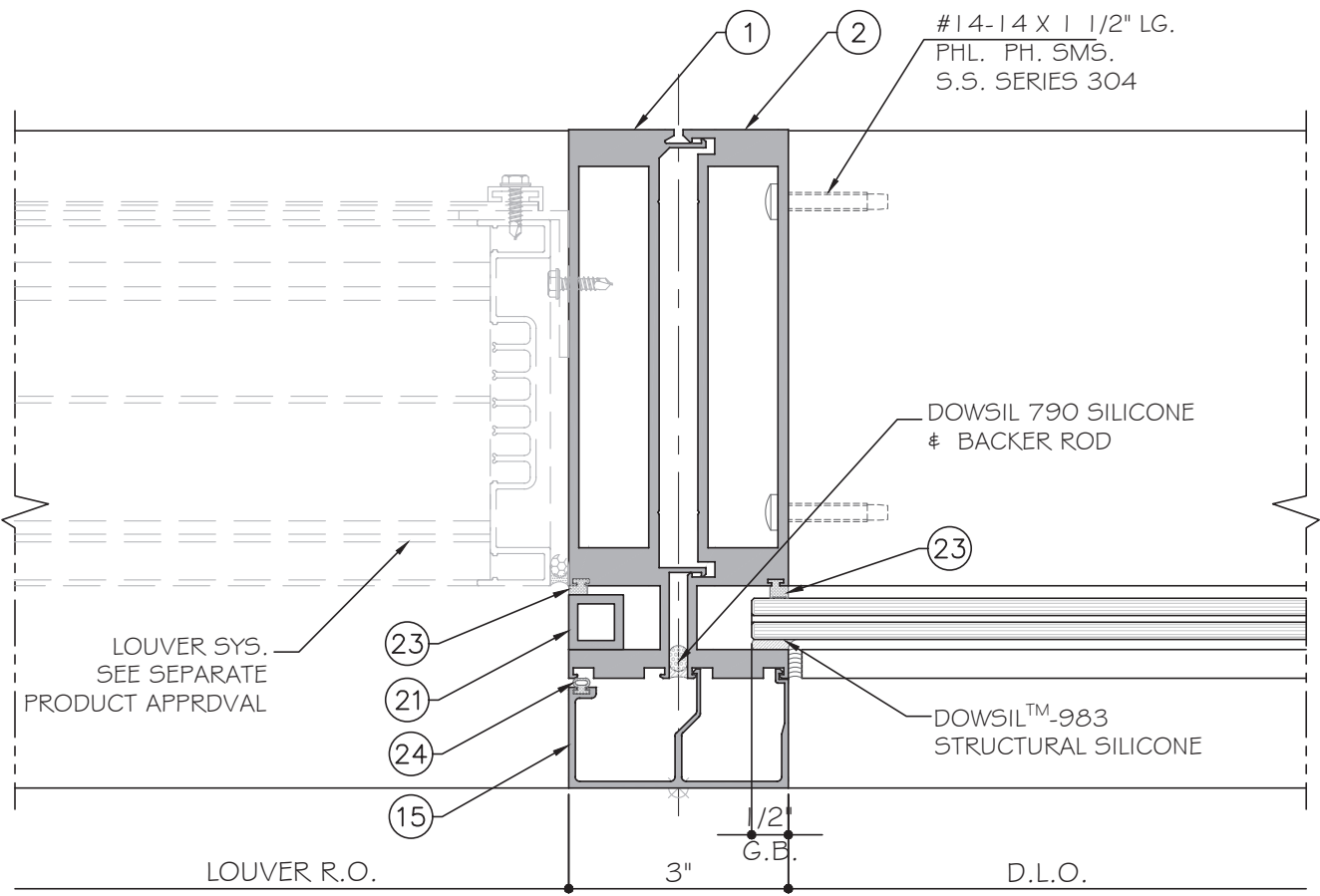
D4

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EXTERIOR

1
D5
DETAIL



EXTERIOR

2
D5
DETAIL

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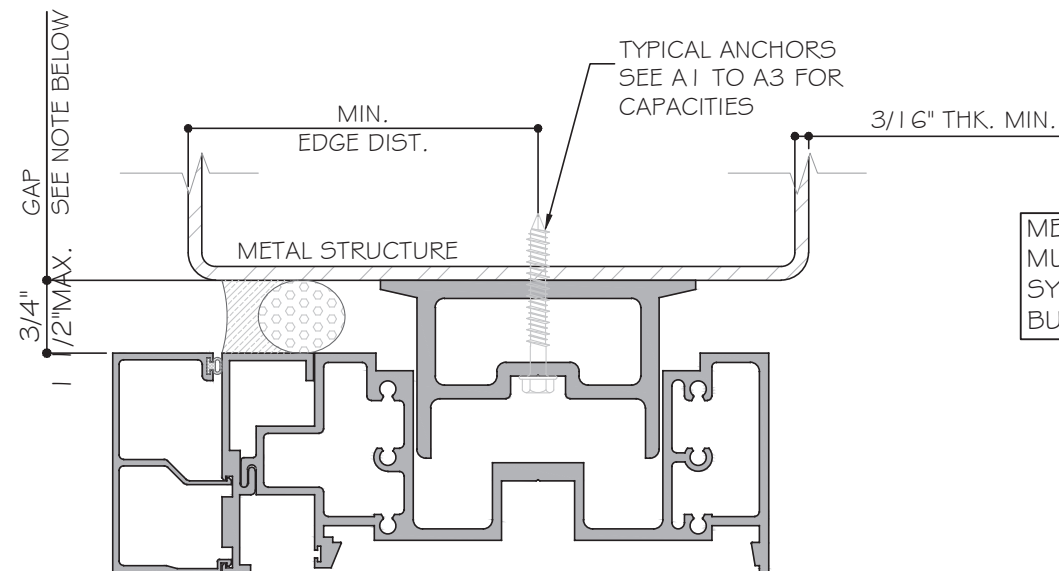
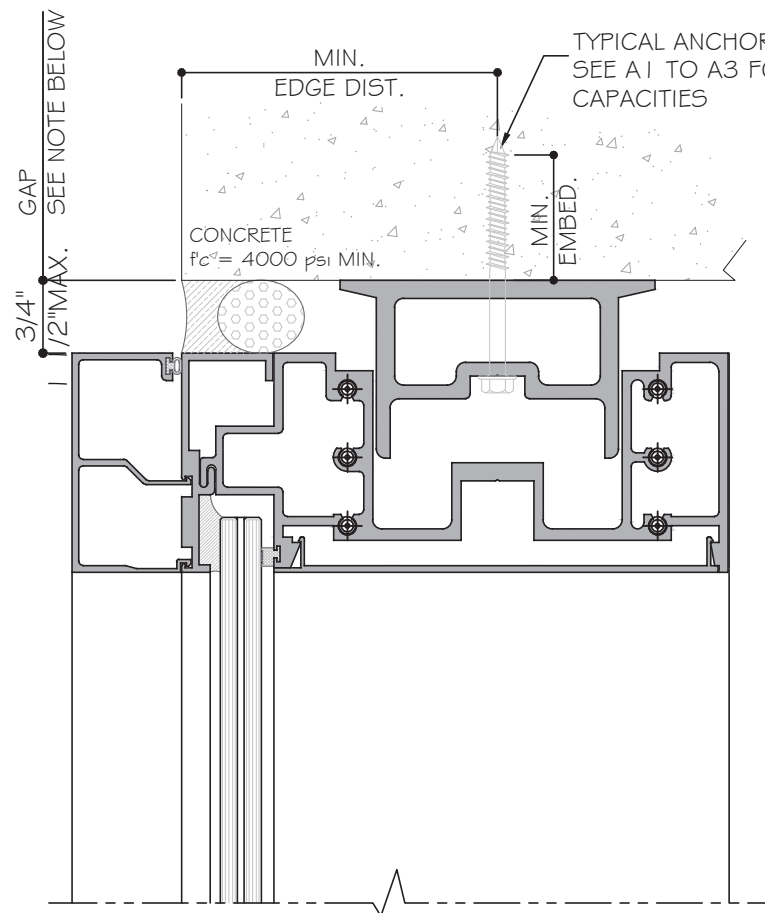
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METAL STRUCTURE BY OTHERS .
MUST SUSTAIN LOADS IMPOSED BY GLAZING
SYSTEM AND TRANSFER THEM TO THE
BUILDING STRUCTURE.

MAX. ANCHOR DESIGN LOAD CAPACITIES
SEE CHART ON SHEET A2 TO A3 BASED
ON GAP BETWEEN FRAME TO SUBSTRATE

NOTE:
APPROVAL ONLY INCLUDED CAPACITIES WITH ANCHOR
SPACING AT 3" OR 5" O.C., ANCHOR SPACING
BETWEEN 3" TO 5" IS ALLOWED AND TO BE CHECKED
BY DESIGNATE ENGINEER ON JOB BASES.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE A: 5/16" "ELCO" ULTRACON (FU=177KSI, FY=155KSI)
DIRECTLY INTO CONCRETE
WITH 1 3/4" MIN. EMBED & 3" O.C.

TYPE B: 5/16" "ELCO" ULTRACON (FU=177KSI, FY=155KSI)
DIRECTLY INTO CONCRETE
WITH 1 3/4" MIN. EMBED & 5" O.C.

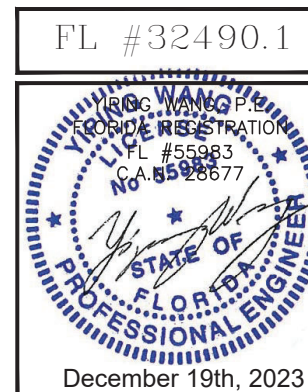
TYPE C: 5/16" DIA. "ELCO" DRIL-FLEX (GRADE 5 CRS)(FU=120KSI, FY=92KSI)
INTO MIAMI-DADE COUNTY APPROVED MULLION & 3" O.C.
(3)THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
ALUMINUM: 1/4" THK. MIN. (6063-T5 MIN).

TYPE D: 5/16" DIA. "ELCO" DRIL-FLEX (GRADE 5 CRS)(FU=120KSI, FY=92KSI)
INTO METAL STRUCTURES & 3" O.C.
(3)THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
STEEL: 3/16" THK. MIN. (FY = 36 KSI MIN.)

MIN.EDGE DIST:
INTO CONCRETE: 4 5/16" MIN.
INTO METAL STRUCTURE: 2 3/16" MIN

CONCRETE AT HEAD/SILL: f_c = 4000 PSI MIN.

NOTE:
FOR CONDITION WITH LESS EDGE DISTANCE TO BE
CHECKED BY DESIGNATE ENGINEER ON JOB BASE.



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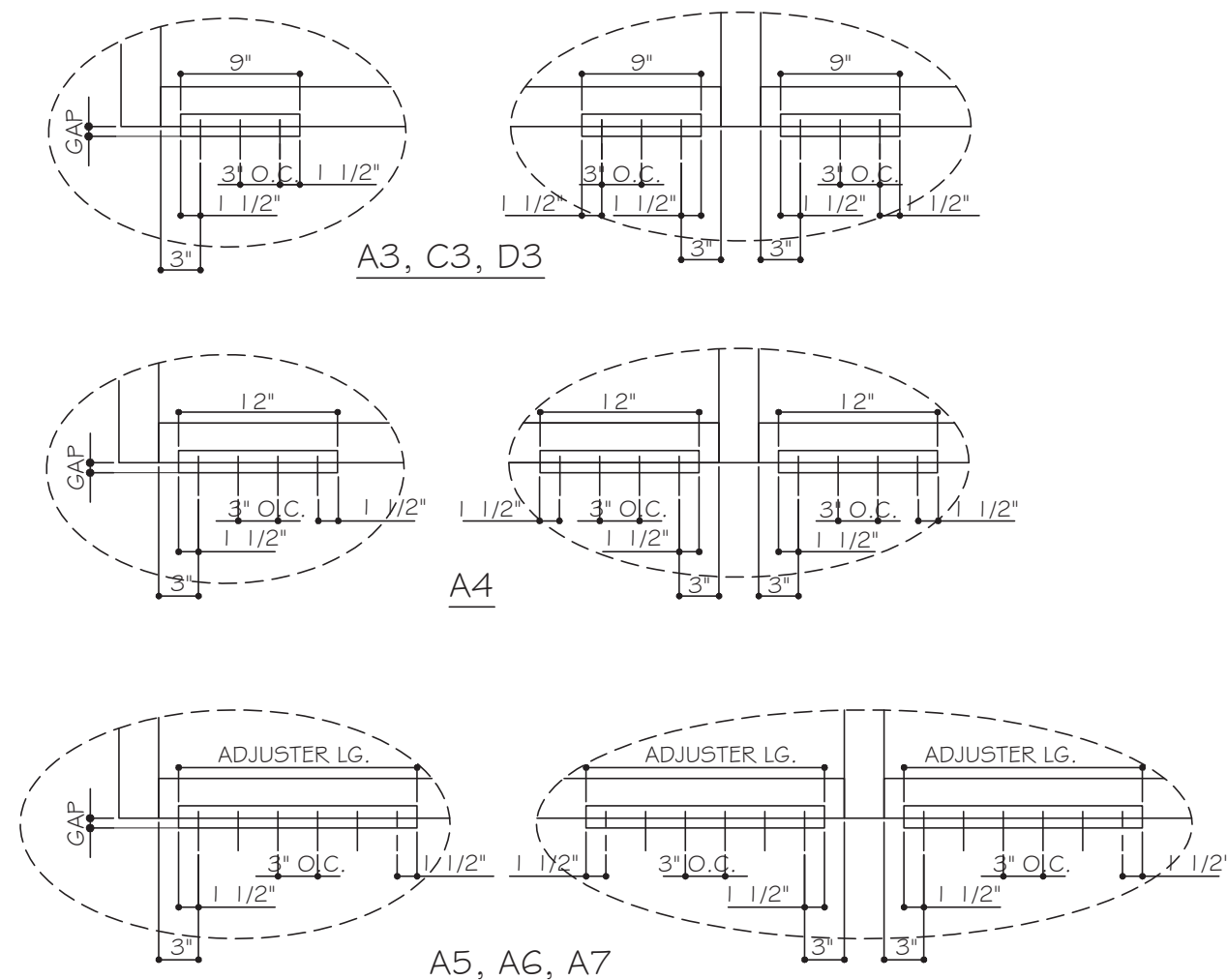
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CHART 4: HEAD AND SILL ANCHOR DESIGN LOAD CAPACITIES

NOMINAL DIMENSIONS		ANCHOR DESIGN LOAD CAPACITIES (PSF)							
FRAME WIDTH MAX.	FRAME HEIGHT MAX.	A3	A4	C3/D3	A4	A5	A6	A7	C3/D3
		3/4" MAX. GAP			1 1/2" MAX. GAP				
(INCH)	(INCH)	(+ / -)	(+ / -)	(+ / -)	(+ / -)	(+ / -)	(+ / -)	(+ / -)	(+ / -)
36	120	90	90	90	90	90	90	90	90
42		90	90	90	90	90	90	90	90
48		90	90	90	90	90	90	90	90
54		90	90	90	85.3	90	90	90	90
60		90	90	90	76.8	90	90	90	90
66		90	90	90	69.8	87.3	90	90	90
72		90	90	90	64	80	90	90	90
78		90	90	90	59.1	73.8	88.6	90	90
36		132	90	90	90	90	90	90	90
42	90		90	90	90	90	90	90	90
48	90		90	90	87.3	90	90	90	90
54	90		90	90	77.6	90	90	90	90
60	90		90	90	69.8	87.3	90	90	90
66	90		90	90	63.5	79.3	90	90	90
72	90		90	90	58.2	72.7	87.3	90	90
78	90		90	90	53.7	67.1	80.6	90	90
36	144		90	90	90	90	90	90	90
42		90	90	90	90	90	90	90	90
48		90	90	90	80	90	90	90	90
54		90	90	90	71.1	88.9	90	90	90
60		90	90	90	64	80	90	90	90
66		90	90	90	58.2	72.7	87.3	90	90
72		90	90	90	53.3	66.7	80	90	90
78		90	90	90	49.2	61.5	73.8	86.2	90
36		156	90	90	90	90	90	90	90
42	90		90	90	84.4	90	90	90	90
48	90		90	90	73.8	90	90	90	90
54	90		90	90	65.6	82.1	90	90	90
60	90		90	90	59.1	73.8	88.6	90	90
66	90		90	90	53.7	67.1	80.6	90	90
72	90		90	90	49.2	61.5	73.8	86.2	90
78	83.4		90	90	45.4	56.8	68.2	79.5	90
36	168		90	90	90	90	90	90	90
42		90	90	90	78.4	90	90	90	90
48		90	90	90	68.6	85.7	90	90	90
54		90	90	90	61	76.2	90	90	90
60		90	90	90	54.9	68.6	82.3	90	90
66		90	90	90	49.9	62.3	74.8	87.3	90
72		83.9	90	90	45.7	57.1	68.6	80	90
78		77.4	90	90	42.2	52.7	63.3	73.8	90
36		177.5	90	90	90	86.5	90	90	90
42	90		90	90	74.2	90	90	90	90
48	90		90	90	64.9	81.1	90	90	90
54	90		90	90	57.7	72.1	86.5	90	90
60	90		90	90	51.9	64.9	77.9	90	90
66	86.6		90	90	47.2	59	70.8	82.6	90
72	79.4		90	90	43.3	54.1	64.9	75.7	90
77 1/2	73.7		90	90	40.2	50.2	60.3	70.3	90



ANCHOR TYPE A & C & D

A3 - (3) TYPE "A" ANCHORS AT EACH SIDE OF MULLION OR JAMB

A4 - (4) TYPE "A" ANCHORS AT EACH SIDE OF MULLION OR JAMB

C3 - (3) TYPE "C" ANCHORS AT EACH SIDE OF MULLION OR JAMB

D3 - (3) TYPE "D" ANCHORS AT EACH SIDE OF MULLION OR JAMB

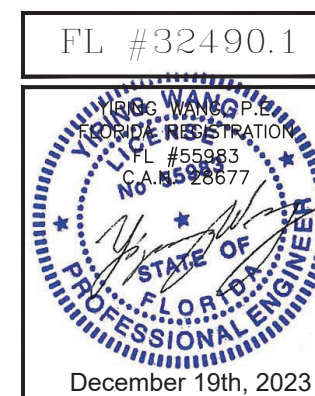
A5 - (5) TYPE "A" ANCHORS AT EACH SIDE OF MULLION OR JAMB
ANCHOR CHANNEL LG. = 15"

A6 - (6) TYPE "A" ANCHORS AT EACH SIDE OF MULLION OR JAMB
ANCHOR CHANNEL LG. = 18"

A7 - (7) TYPE "A" ANCHORS AT EACH SIDE OF MULLION OR JAMB
ANCHOR CHANNEL LG. = 21"

NOTE:

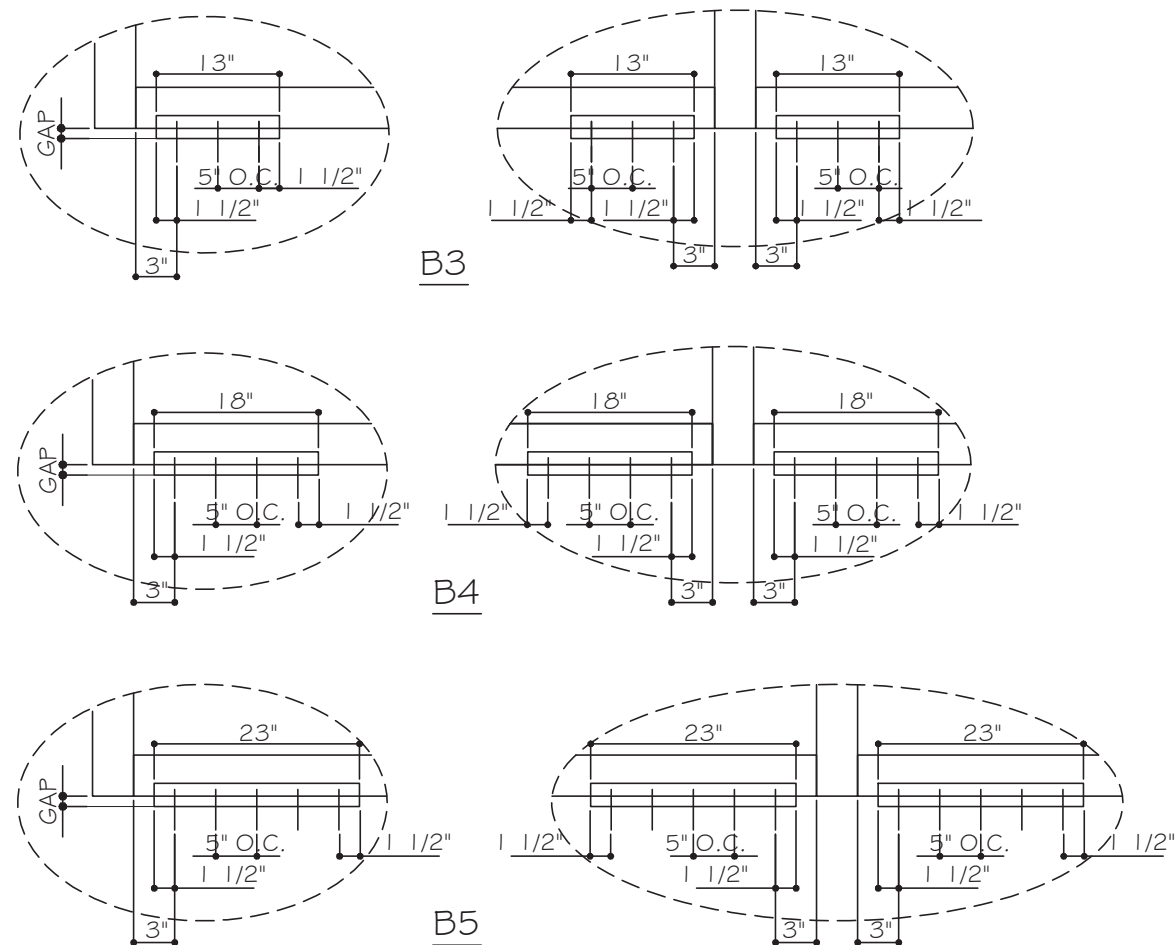
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	CONTINENTAL GLASS SYSTEMS, LLC.			
	325 WEST 74 PLACE, HIALEAH, FL 33014			
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CHART 5: HEAD AND SILL ANCHOR DESIGN LOAD CAPACITIES

NOMINAL DIMENSIONS		ANCHOR DESIGN LOAD CAPACITIES (PSF)		
FRAME WIDTH MAX.	FRAME HEIGHT MAX.	B3	B4	B5
		3/4" GAP	1 1/2" MAX. GAP	
(INCH)	(INCH)	(+/-)	(+/-)	(+/-)
36	120	90	90	90
42		90	90	90
48		90	90	90
54		90	90	90
60		90	90	90
66		90	90	90
72		90	90	90
78		90	90	90
36	132	90	90	90
42		90	90	90
48		90	90	90
54		90	90	90
60		90	90	90
66		90	90	90
72		90	90	90
78		90	90	90
36	144	90	90	90
42		90	90	90
48		90	90	90
54		90	90	90
60		90	90	90
66		90	90	90
72		90	90	90
78		90	86.2	90
36	156	90	90	90
42		90	90	90
48		90	90	90
54		90	90	90
60		90	90	90
66		90	90	90
72		90	86.2	90
78		90	79.5	90
36	168	90	90	90
42		90	90	90
48		90	90	90
54		90	90	90
60		90	90	90
66		90	87.3	90
72		90	80	90
78		90	73.8	90
36	177.5	90	90	90
42		90	90	90
48		90	90	90
54		90	90	90
60		90	90	90
66		90	82.6	90
72		90	75.7	90
77 1/2		90	70.3	87.9



ANCHOR TYPE B:

B3 - (3) TYPE "B" ANCHORS AT EACH SIDE OF MULLION OR JAMB

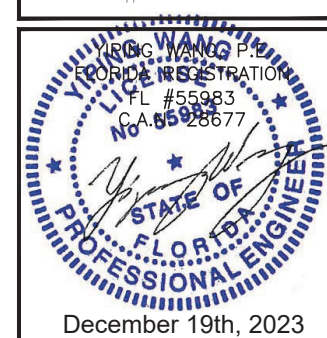
B4 - (4) TYPE "B" ANCHORS AT EACH SIDE OF MULLION OR JAMB

B5 - (5) TYPE "B" ANCHORS AT EACH SIDE OF MULLION OR JAMB

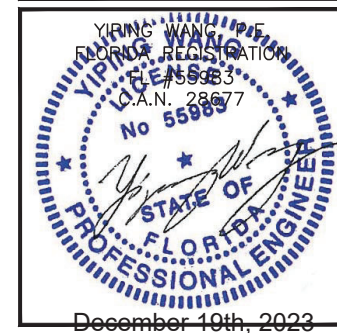
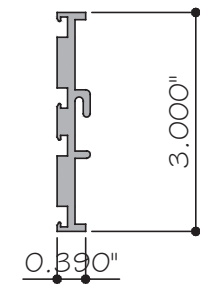
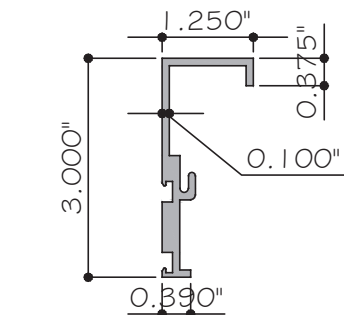
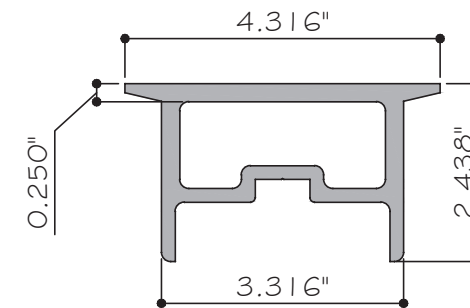
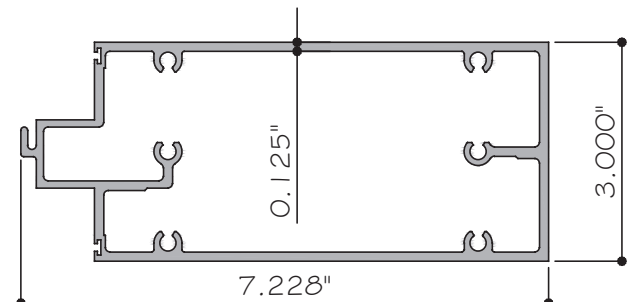
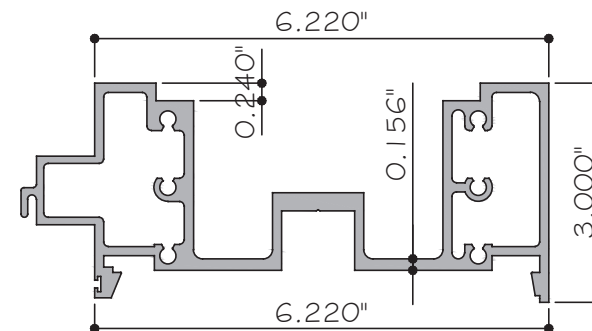
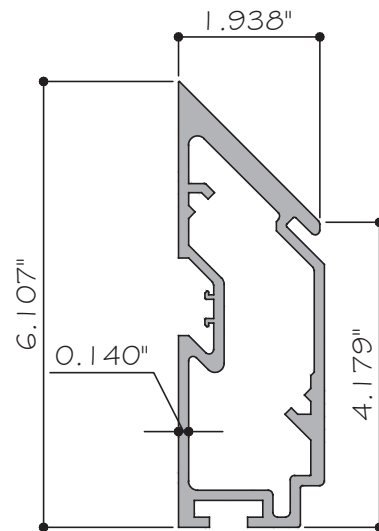
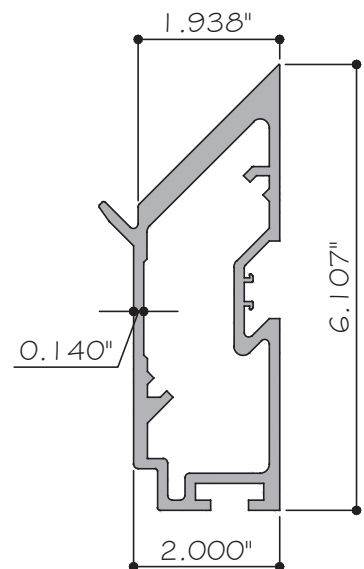
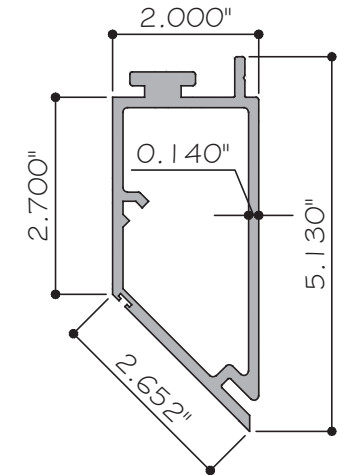
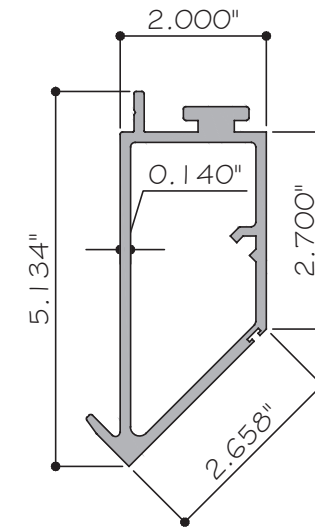
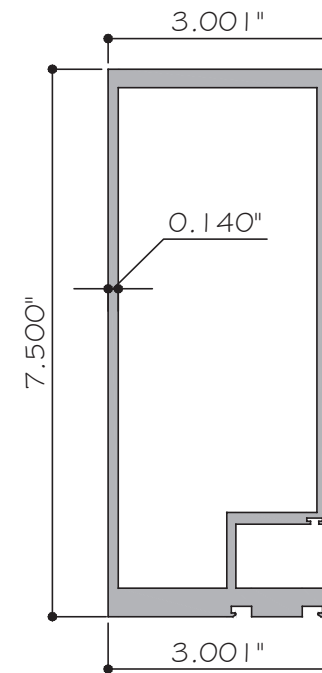
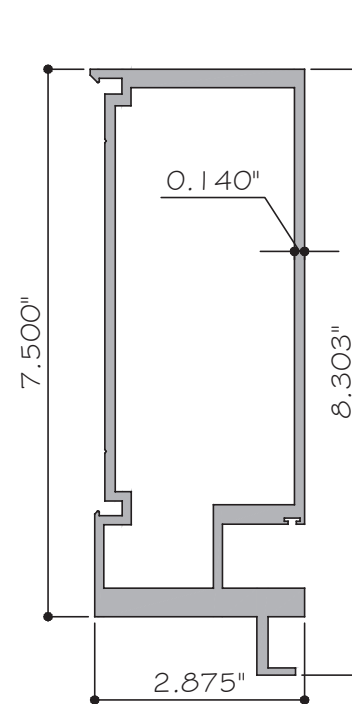
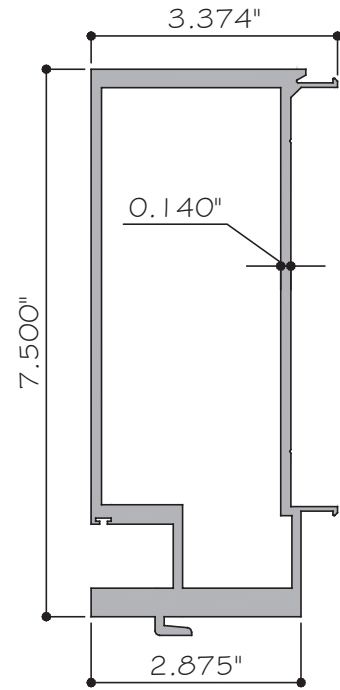
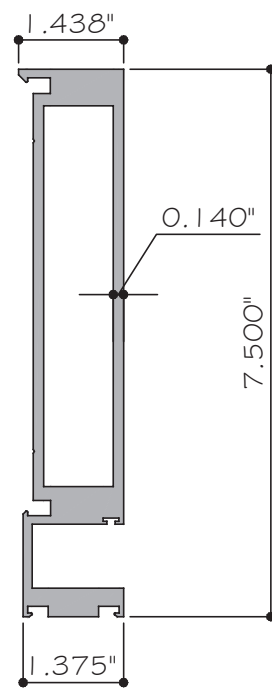
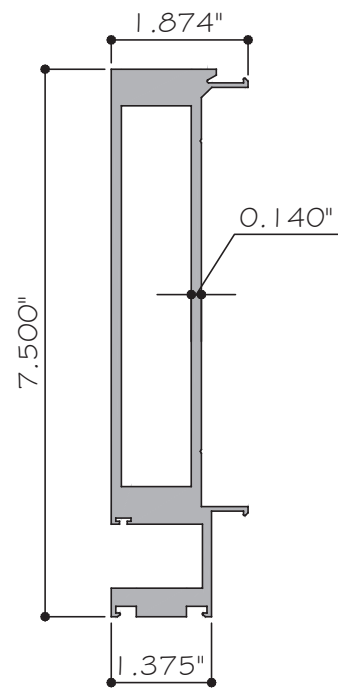
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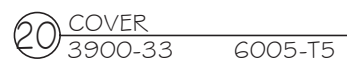
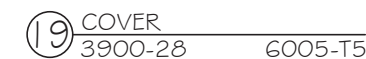
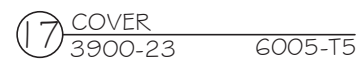
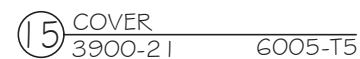
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 MCY ENGINEERING, INC. GLAZING CONSULTANTS 12781 MIRAMAR PARKWAY #301 P: 305.588.5224 MIRAMAR, FL 33027 F: 305.271.0117 www.MCYEngineering.com mcy@mcyengineering.com					
SERIES 3090 WINDOW WALL -LMI CONTINENTAL GLASS SYSTEMS, LLC. 325 WEST 74 PLACE, HIALEAH, FL 33014 TEL. (305) 231-1101 FAX. (305) 231-1103					
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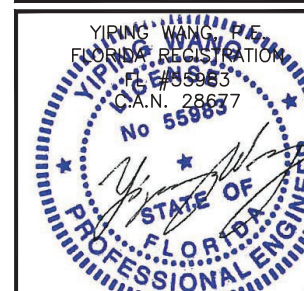
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PARTS-2

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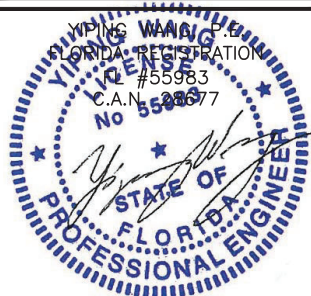


~~December 10th, 2023~~

BILL OF MATERIALS

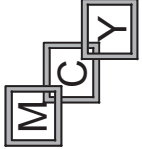
ITEM	PART	DESCRIPTION	MATERIAL	MANUF. / REMARKS
1	3900-01	MALE MULLION	ALUM. 6005-T5	CGS
2	3900-02	FEMALE MULLION	ALUM. 6005-T5	CGS
3	3900-03	MALE MULLION	ALUM. 6005-T5	CGS
4	3900-04	FEMALE MULLION	ALUM. 6005-T5	CGS
5	3900-07	JAMB	ALUM. 6005-T5	CGS
6	3900-10	90° FRONT MALE MULLION	ALUM. 6005-T5	CGS
7	3900-11	90° FRONT FEMALE MULLION	ALUM. 6005-T5	CGS
8	3900-12	90° BACK MALE MULLION	ALUM. 6005-T5	CGS
9	3900-13	90° BACK FEMALE MULLION	ALUM. 6005-T5	CGS
10	3900-16	HEAD & SILL	ALUM. 6005-T5	CGS
11	3900-17	INTERMEDIATE HORIZONTAL	ALUM. 6005-T5	CGS
12	4074-29	ADJUSTER	ALUM. 6005-T5	CGS
13	3900-19	PRESSURE PLATE	ALUM. 6005-T5	CGS
14	3900-20	PRESSURE PLATE	ALUM. 6005-T5	CGS
15	3900-21	COVER	ALUM. 6005-T5	CGS
16	3900-32	ALUM. REINFORCEMENT	ALUM. 6005-T5	CGS
17	3900-23	COVER	ALUM. 6005-T5	CGS
18	3900-26	PRESSURE PLATE	ALUM. 6005-T5	CGS
19	3900-28	COVER	ALUM. 6005-T5	CGS
20	3900-33	COVER	ALUM. 6005-T5	CGS
21	-	3/4" X 3/4" X 1/8" ALUM. TUBE	ALUM. 6063-T6	CGS
22	-	5/16" THICKNESS SETTING BLOCK AT 1/4" POINT	EPDM (85 +/- 5 DURO. SHORE A)	-
23	CGS-007	GLAZING GASKET	EPDM (70 +/- 5 DURO. SHORE A)	CGS
24	CGS-008	GLAZING GASKET	EPDM (70 +/- 5 DURO. SHORE A)	CGS

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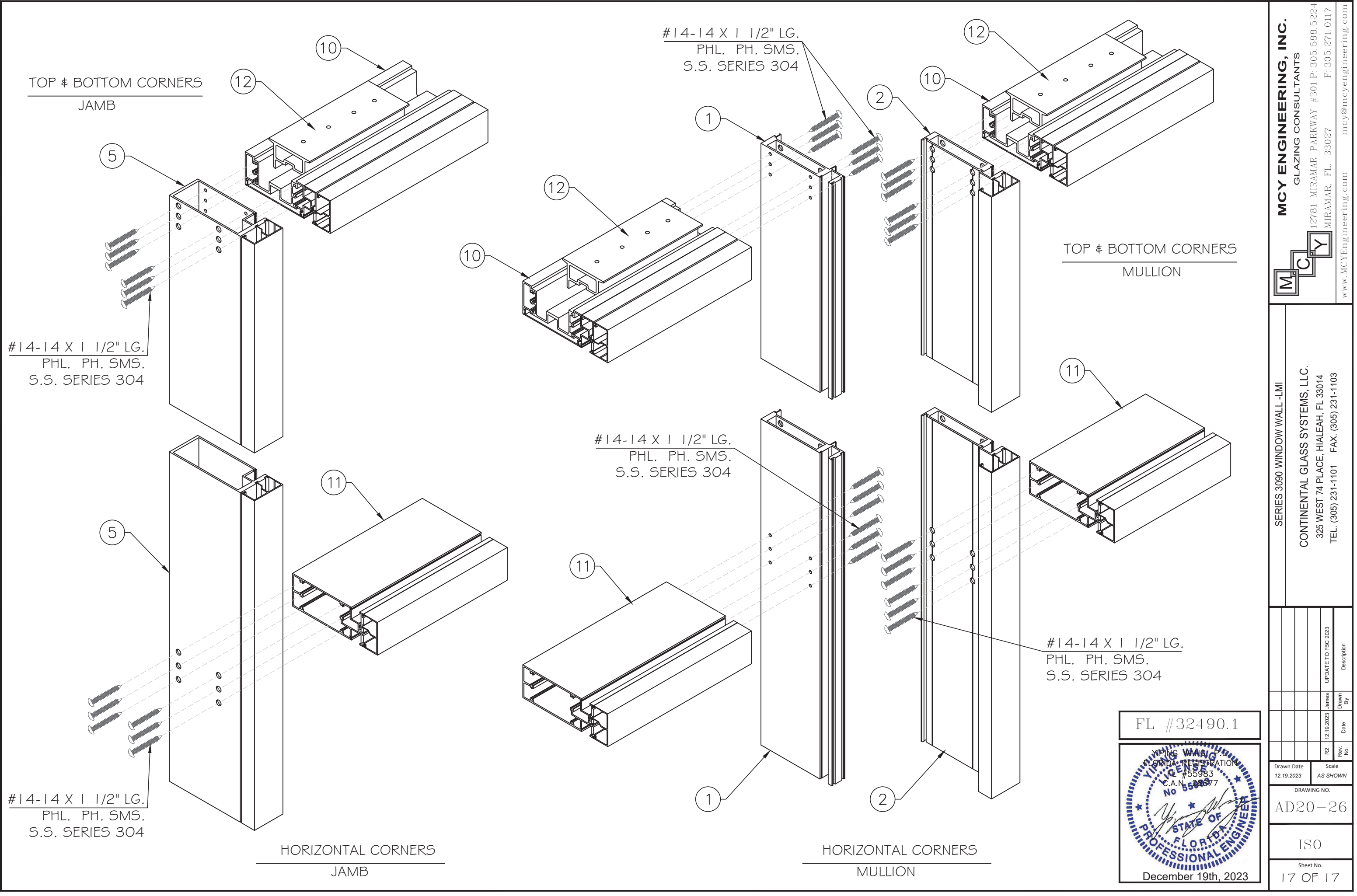
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STATE OF FLORIDA
PROFESSIONAL ENGINEER

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