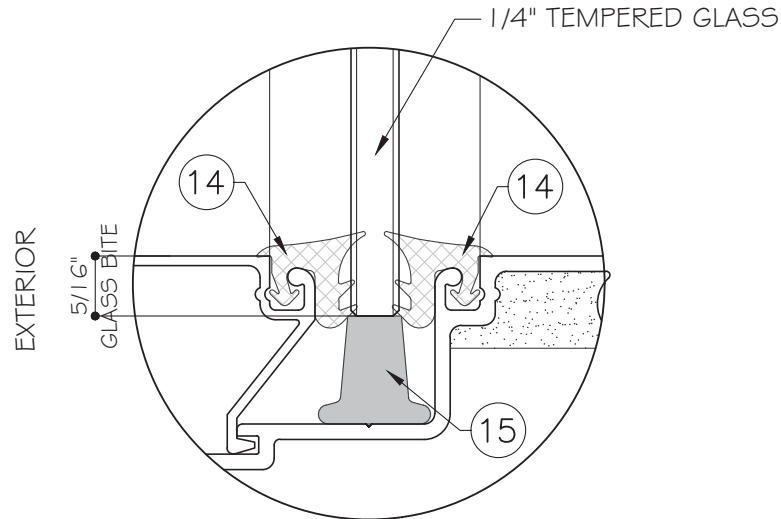


TRULITE GLASS & ALUMINUM SOLUTIONS
CG450 FRAMING SYSTEM



A GLASS TYPE 'A'
MAX. GLASS SIZE APPROVED:
D.L.O. WIDTH x D.L.O. HEIGHT ≤ 29.7 FT²

D.L.O. WIDTH (in)	D.L.O. HEIGHT (in)	GLASS AREA (ft ²)	DP ALLOW (psf)
46.25	92.5	29.7	67
54	78	29.25	67
36	116	29.0	67

NOTE:
GLASS CAPACITIES ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS) AND FLORIDA BUILDING COMMISSION DECLARATORY STATEMENT DCA05-DEC-219.

GENERAL NOTES:

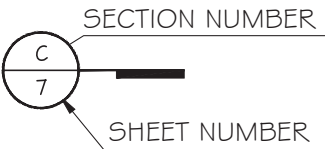
- WINDOW WALL SYSTEM IS NON IMPACT SYSTEM TO BE USED OUTSIDE OF HVHZ (NON HVHZ). THIS SYSTEM MAY BE USED IN CONJUNCTION WITH FLORIDA STATE APPROVED ENTRANCE DOORS.
- CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.
 - THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 7TH EDITION (2020) / 8TH EDITION (2023) NOT INCLUDING HIGH VELOCITY HURRICANE ZONE (NON-HVHZ).
 - ULTIMATE LOAD OBTAINED FROM ASCE 7-16 / 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.
 - WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
 - 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.
 - A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.
 - MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 7TH EDITION (2020) / 8TH EDITION (2023) SECTION AS APPLICABLE.

INSTRUCTIONS
USE CHARTS AS FOLLOWS

- STEP 1 : DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BUILDING HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-16 / 7-22 STANDARD.
- STEP 2 : SEE SHEET 1 FOR GLASS OPTIONS AND MAX. D.L.O. AREA ALLOWED.
- STEP 3 : SEE TYPICAL ELEVATION ON SHEET 2-3. CHECK MULLION AND JAMB CAPACITY FOR A GIVENS PACING AND HEIGHT. MULLION OR JAMB SUPPORT XX DOOR SEE SHEET 3 FOR CAPACITY. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4 : SEE ANCHOR OPTIONS ON SHEET 7. NUMBER OF ANCHOR REQUIRED SEE SHEET 8.
- STEP 5 : THE LOWEST VALUE RESULTING FROM STEPS 2, 3, & 4 SHALL APPLY TO ENTIRE SYSTEM.
- STEP 6 : HIGHLIGHT OPTION USED AND TABLE VALUES USED IN A SPECIFIC APPLICATION WHEN USING THIS FA TO APPLY FOR A PERMIT.

ABBREVIATIONS AND SYMBOLS

D.L.O- DAYLITE OPENING	GA - GLASS AREA
F.H. - FRAME HEIGHT	
F.C. - FRAME WIDTH	
W/ - WITH	
W/O - WITHOUT	
O.C. - ON CENTER	



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p. 800-432-8132

PRODUCT:

Series CG450

ALUMINUM
STOREFRONT
WALL



REVN	DATE/REMARKS
REV 3	UPDATE TO FBC 2023

ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

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P: 786.360.2786
mcy@mcyengineering.com
www.MCYEngineering.com

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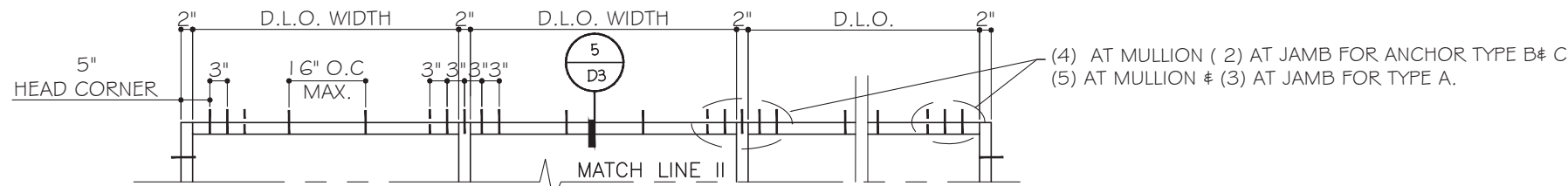
FLORIDA APPROVAL:

FL #17962.1

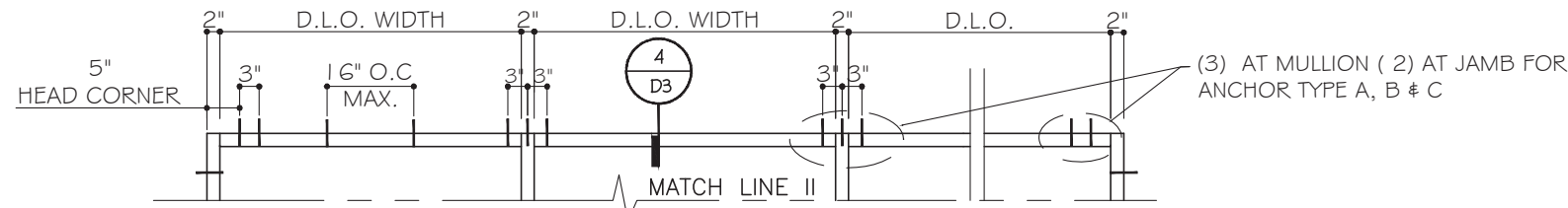
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COVER

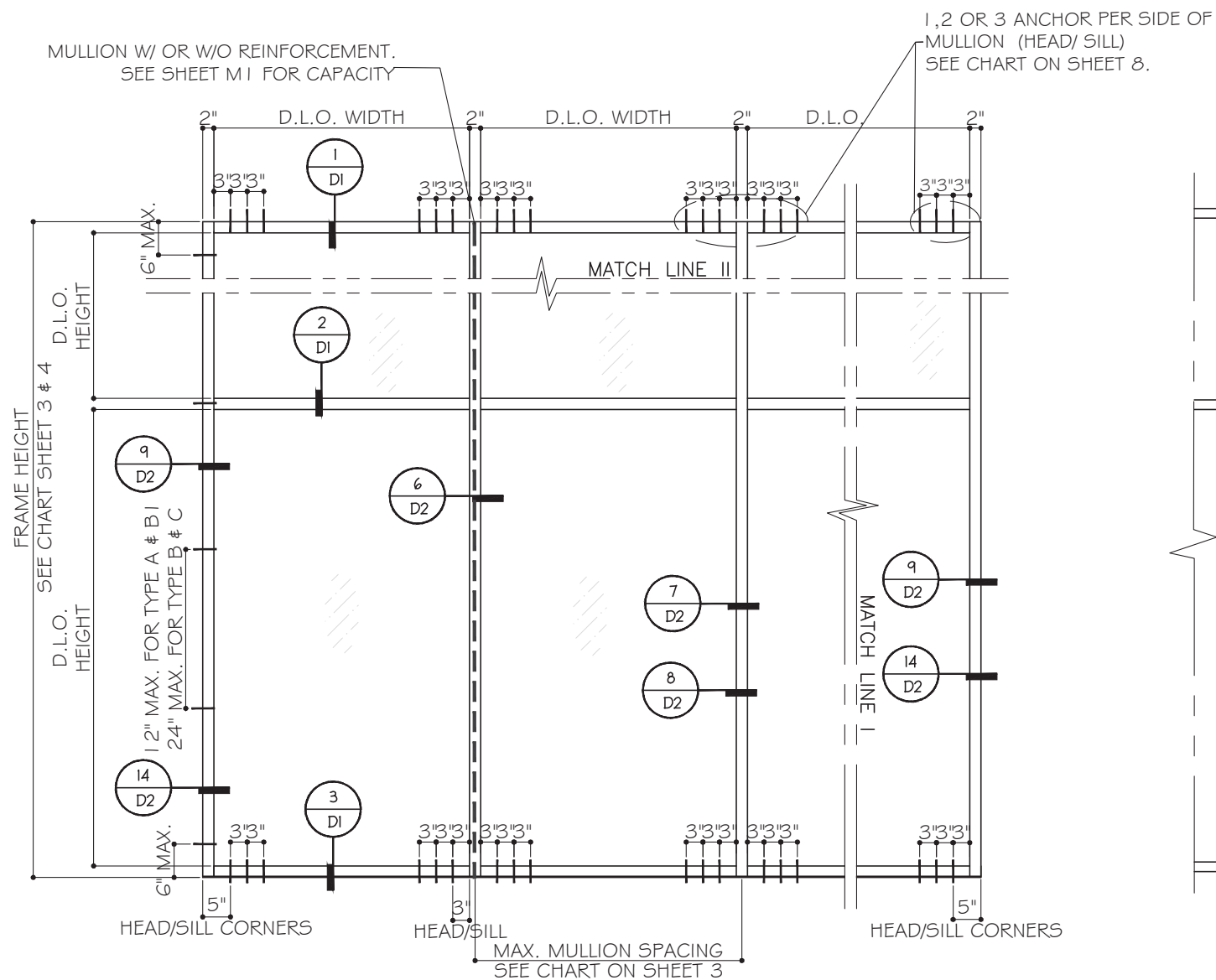
DRAWN: JAMES	DRAWING No:
DATE: 08/01/23	1 OF 11
DWG: AD20-29	



HEAD RECEPTOR HEAVY DUTY ANCHOR LAYOUT
MAX. MULLION REACTION=900 LBF (RECTANGULAR LOAD)

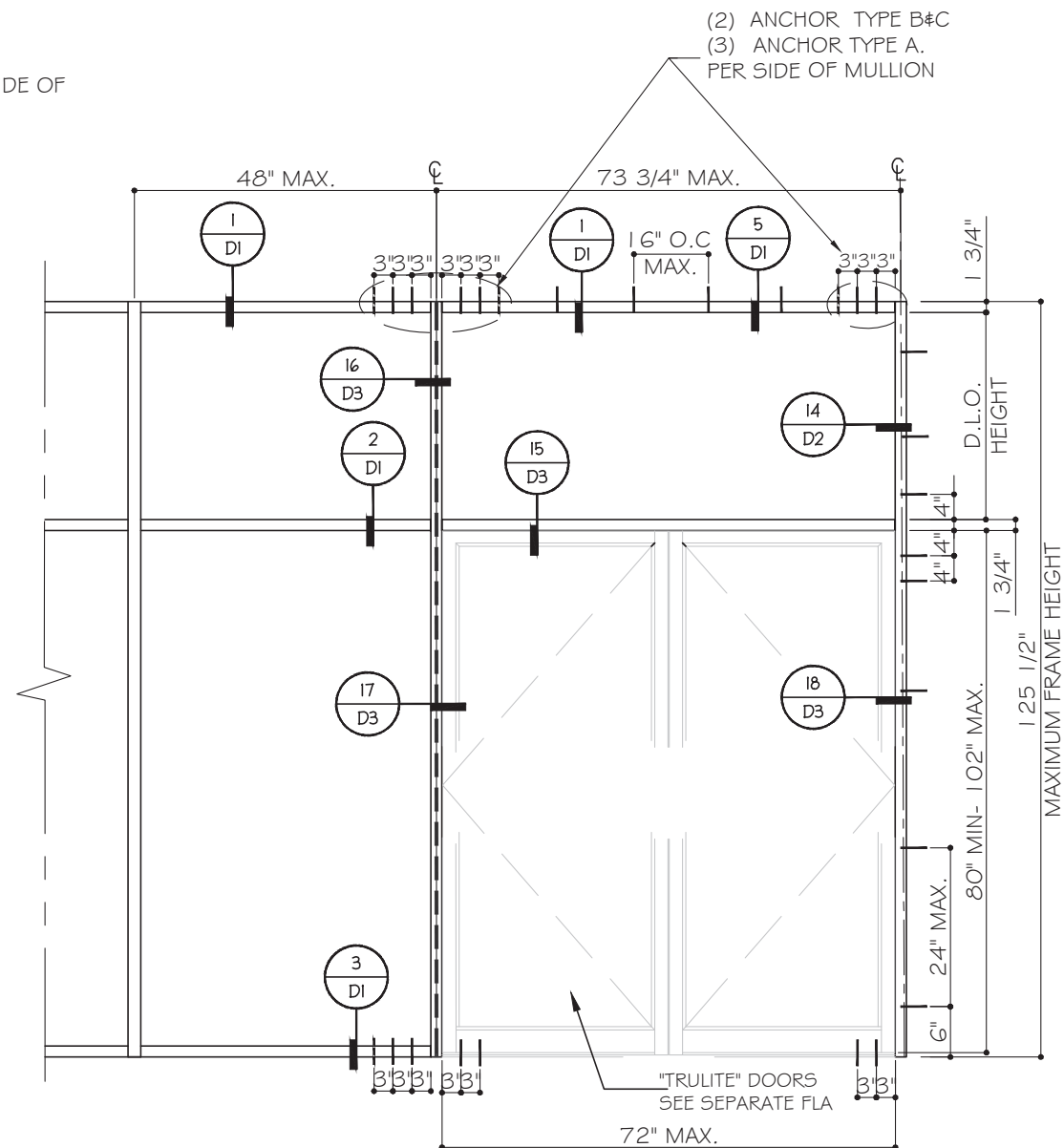


LIGHT HEAD RECEPTOR ANCHOR LAYOUT
MAX. DESIGN LOAD +/- 23.5PSF



TYPICAL ELEVATION

SEE CHART ON SHEET 3 FOR
APPROVED SIZE AND DESIGN LOADS.



TYPICAL ELEVATION

MAX DESIGN LOAD 35 PSF



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FLORIDA APPROVAL:

FL #17962.1

SHEET TITLE:

E1

DRAWN: JAMES

DRAWING No:

DATE: 08/01/23

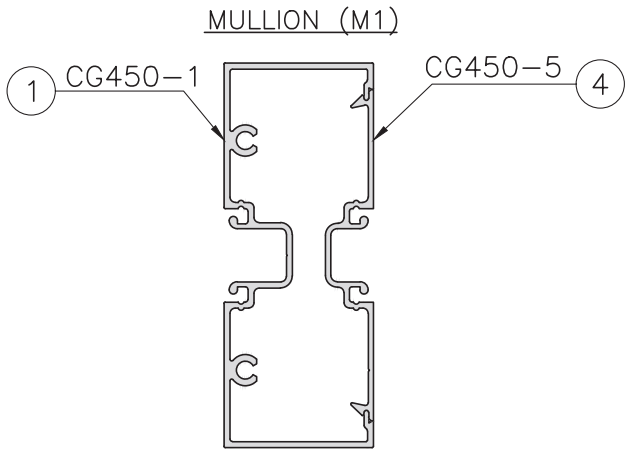
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2 OF 11

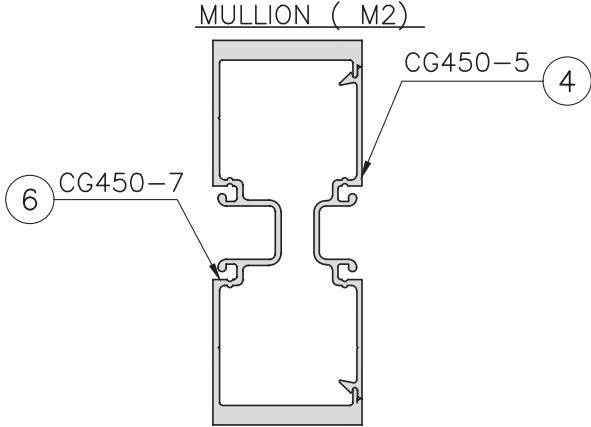
MULLION LOAD CAPACITY				
WITH OR WITHOUT INTERMEDIATE HORIZONTAL				
WINDOW PANEL		M1	M2	M3
WIDTH (W)	HEIGHT	EXT(+) INT(-)	EXT(+) INT(-)	EXT(+) INT(-)
IN	IN	PSF	PSF	PSF
30	60	67	67	67
36		67	67	67
42		64	64	67
48		56	56	67
54		50	50	67
60		45	45	67
30	66	67	67	67
36		67	67	67
42		58	58	67
48		51	51	67
54		45	45	67
60		41	41	67
30	72	67	67	67
36		62	62	67
42		53	53	67
48		47	47	67
54		41	41	67
60		37	37	67
30	78	67	67	67
36		57	57	67
42		49	49	67
48		43	43	67
54		38	38	67
60		34	34	67
30	84	64	64	67
36		53	53	67
42		46	46	67
48		40	40	67
54		36	36	67
60		32	32	67
30	90	60	60	67
36		50	50	67
42		43	43	67
48		37	37	67
54		33	33	67
60		30	30	64

STEP 3: MULLION LOAD CAPACITY

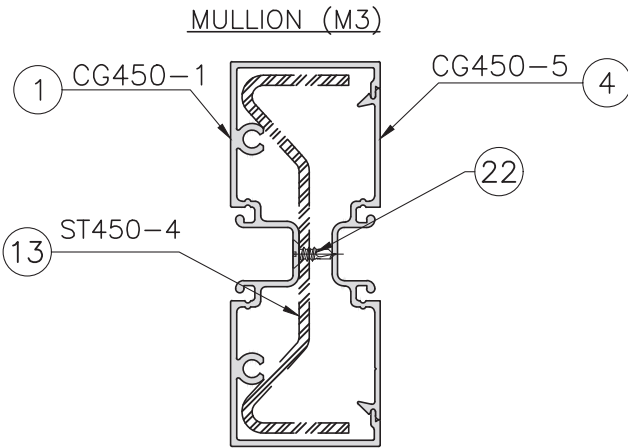
MULLION LOAD CAPACITY				
WITH OR WITHOUT INTERMEDIATE HORIZONTAL				
WINDOW PANEL		M1	M2	M3
WIDTH (W)	HEIGHT	EXT(+) INT(-)	EXT(+) INT(-)	EXT(+) INT(-)
IN	IN	PSF	PSF	PSF
30	96	56	56	67
36		47	47	67
42		40	40	67
48		35	35	67
54		31	31	66
60		28	28	59
30	102	50	50	67
36		41	41	67
42		35	35	67
48		31	31	66
54		28	28	58
30	108	43	44	67
36		36	37	67
42		30	32	67
48		27	28	59
54		24	25	52
30	114	36	40	67
36		30	33	67
42		26	28	60
48		23	25	53
30	120	31	36	67
36		26	30	63
42		22	26	54
48		19	22	47
30	126	-	33	67
36		-	27	57
42		-	23	49
48		-	20	43
30	132	-	30	63
36		-	25	52
42		-	21	45
48		-	19	39
30	138	-	27	57
36		-	23	48
42		-	19	41
48		-	17	36
30	144	-	25	53
36		-	21	44
42		-	18	38
48		-	16	33



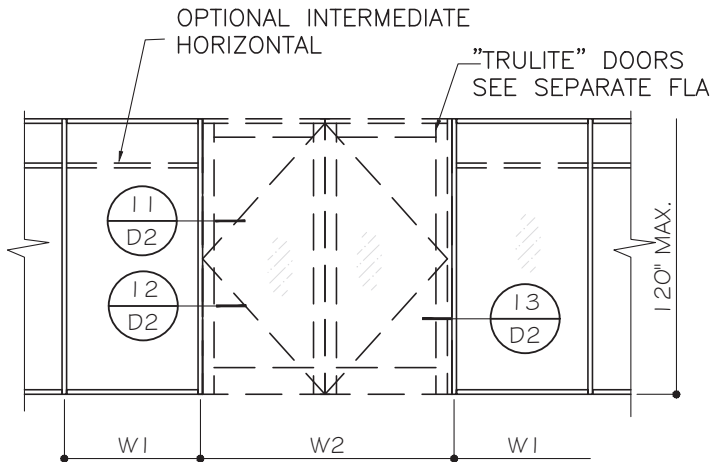
	1x IN^4	5x IN^3
CG450-1	2.1397	0.9510
CG450-5	0.4104	0.2147
TOTAL	2.5501	1.1334



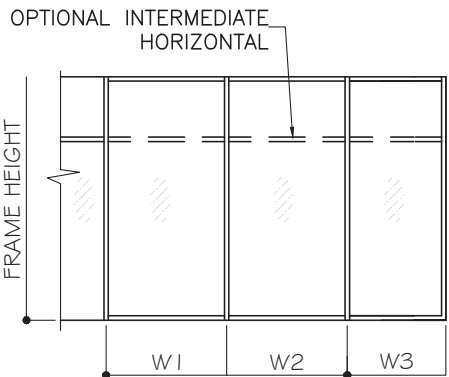
	1x IN^4	5x IN^3
CG450-7	4.2370	1.8831
CG450-5	0.4104	0.2147
TOTAL	4.6474	2.0655



	1x IN^4	5x IN^3
CG450-1	2.1397	0.9510
CG450-5	0.4104	0.2147
ST450-4	1.8771	0.8965
TOTAL=1ALUM.+2.9XSTL	7.9937	-

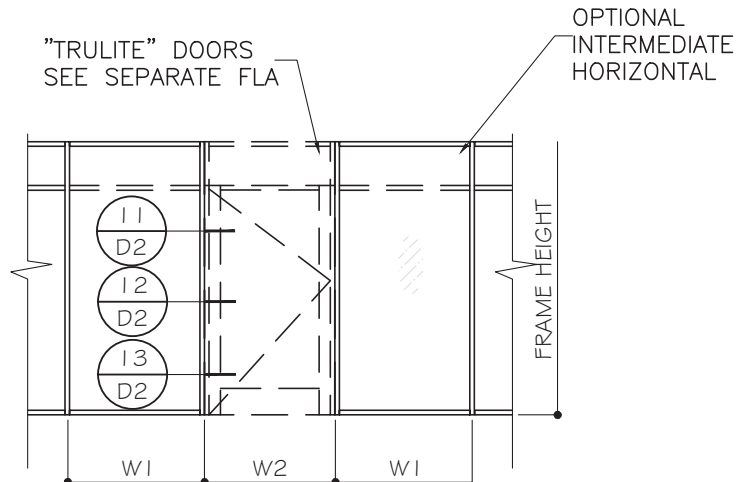


MULLION WIDTH (W) = $\frac{W1}{2} + \frac{W2}{4}$



TYPICAL ELEVATION

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



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



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PRODUCT:

Series CG450

ALUMINUM
STOREFRONT
WALL



REVN	DATE/REMARKS
REV 3	UPDATE TO FBC 2023

ENGINEER:



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GLAZING CONSULTANT

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FLORIDA APPROVAL:

FL #17962.1

SHEET TITLE:

M1

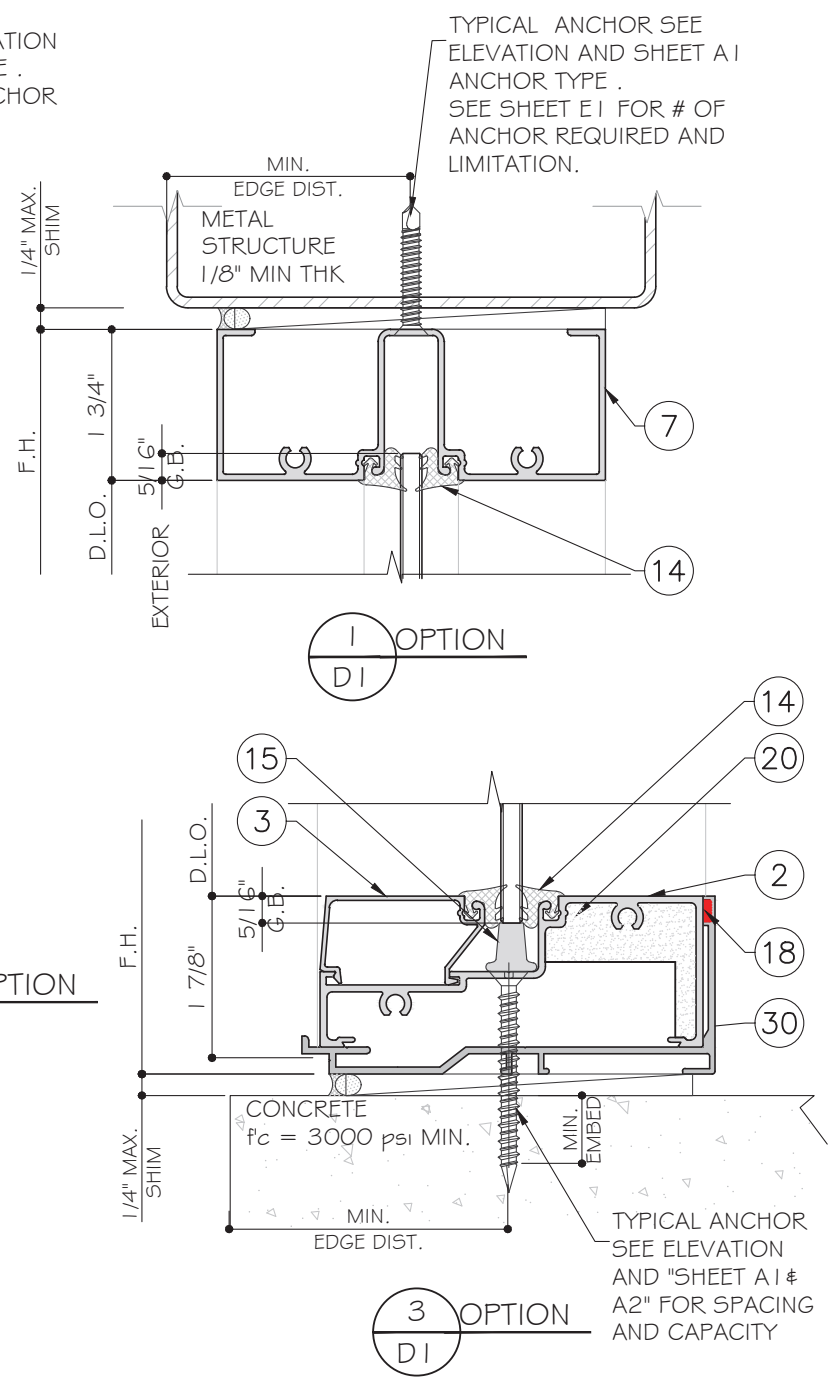
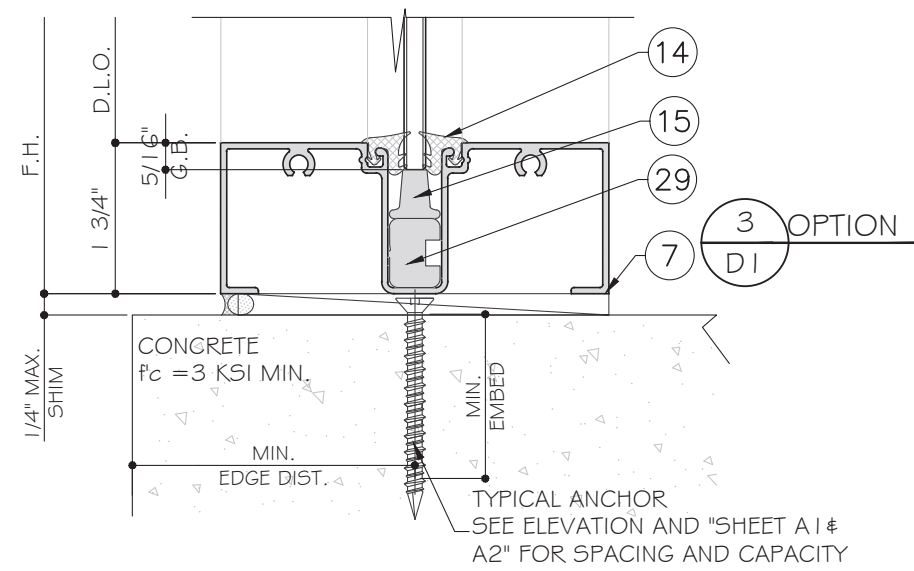
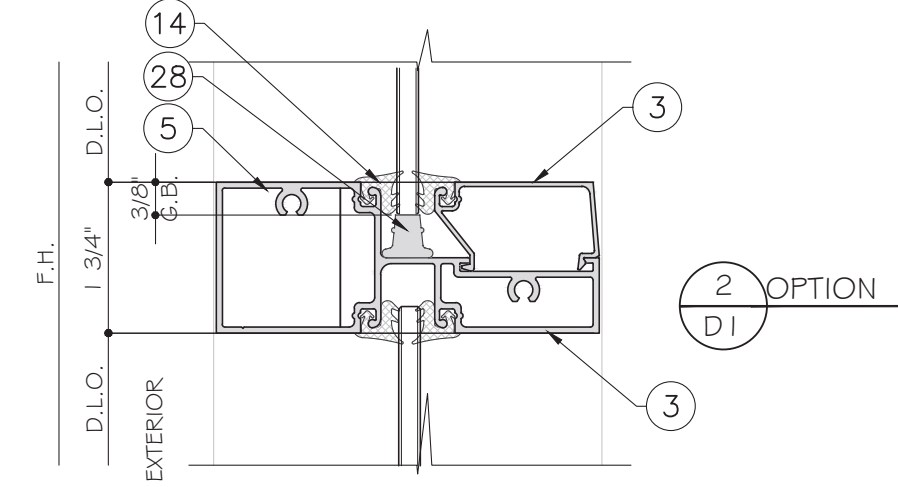
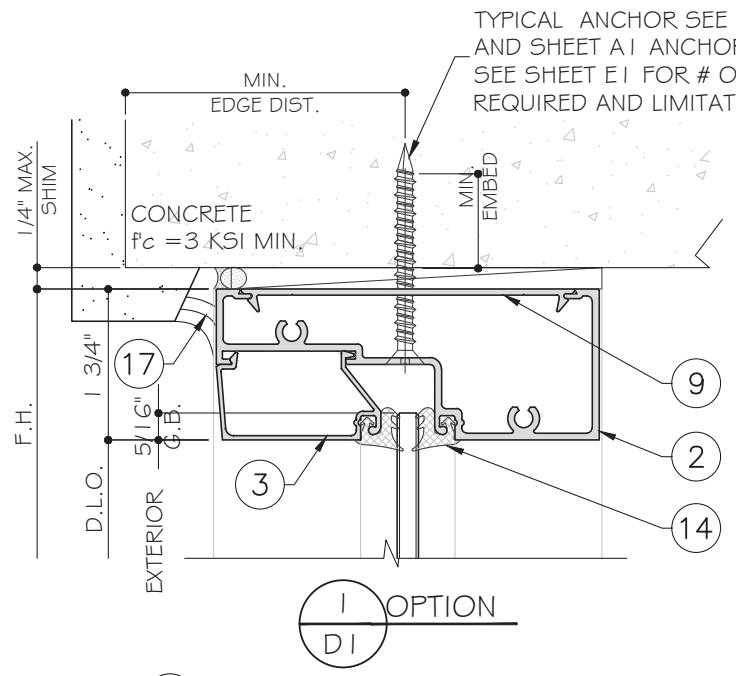
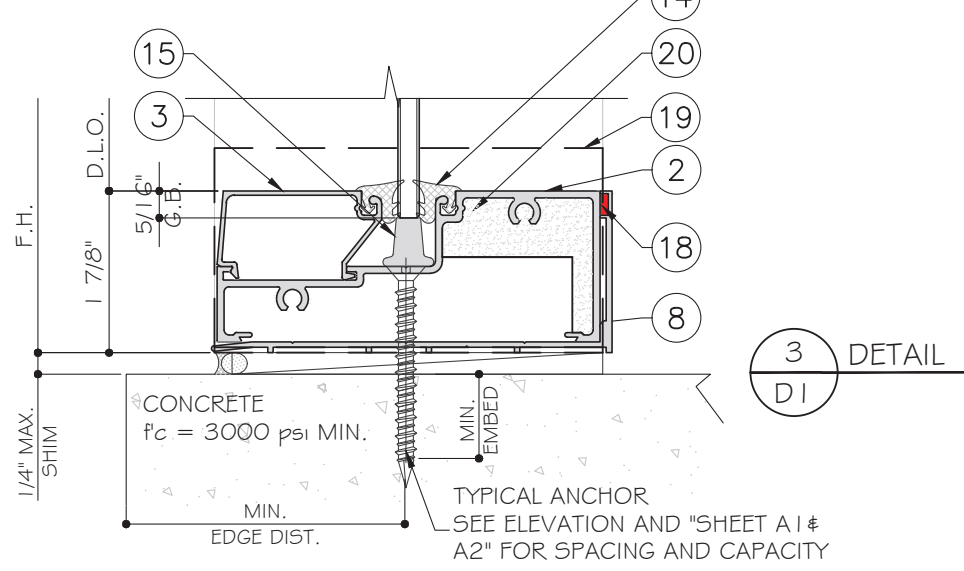
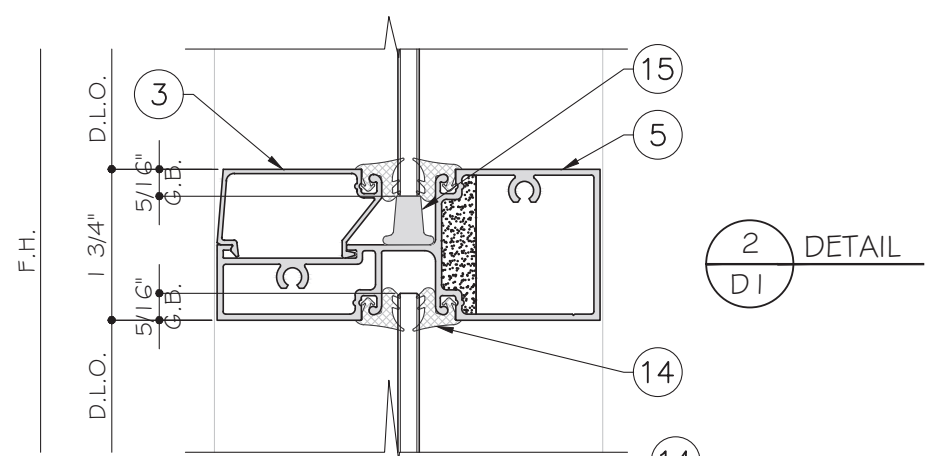
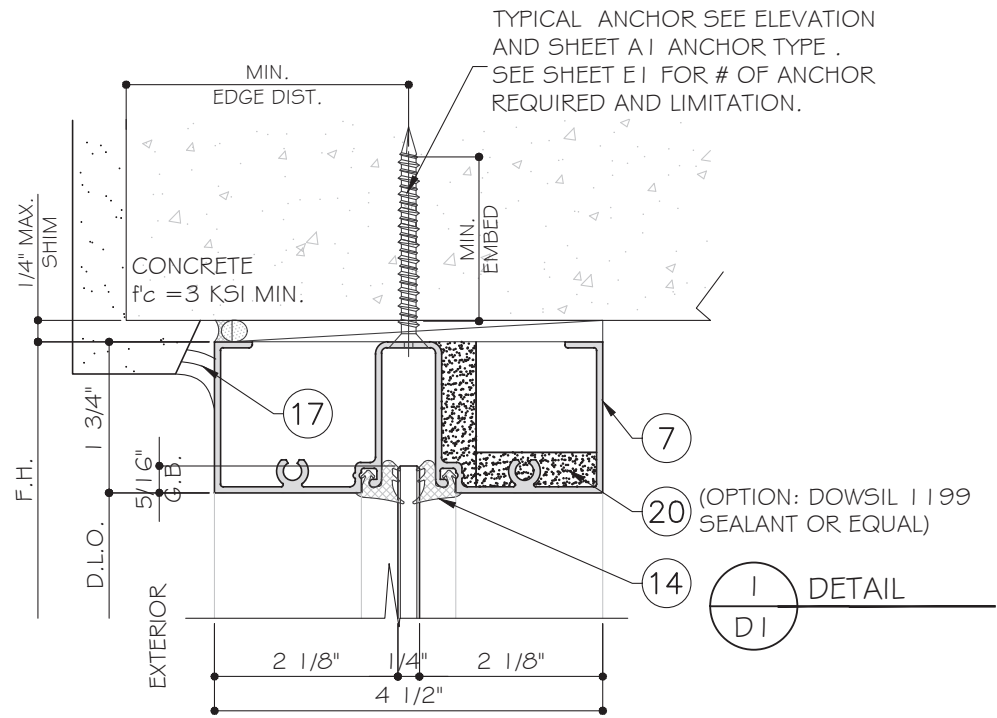
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DRAWING No:

DATE:08/01/23

3 OF 11

DWG: AD20-29



PRODUCT:

Series CG450

ALUMINUM
STOREFRONT
WALL

Resistor
PRODUCT SERIES

REVN	DATE/REMARKS
REV 3	UPDATE TO FBC 2023

ENGINEER:

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YIPING WANG, P.E.
FLORIDA REGISTRATION
PE #55983
C.O.R. #28677

No 55983

STATE OF FLORIDA
PROFESSIONAL ENGINEER

August 01st, 2023

FLORIDA APPROVAL:

FL #17962.1

SHEET TITLE:

D1

PRODUCT:

Series CG450

ALUMINUM
STOREFRONT
WALL

Resistor
PRODUCT SERIES

REVN	DATE/REMARKS
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ENGINEER:

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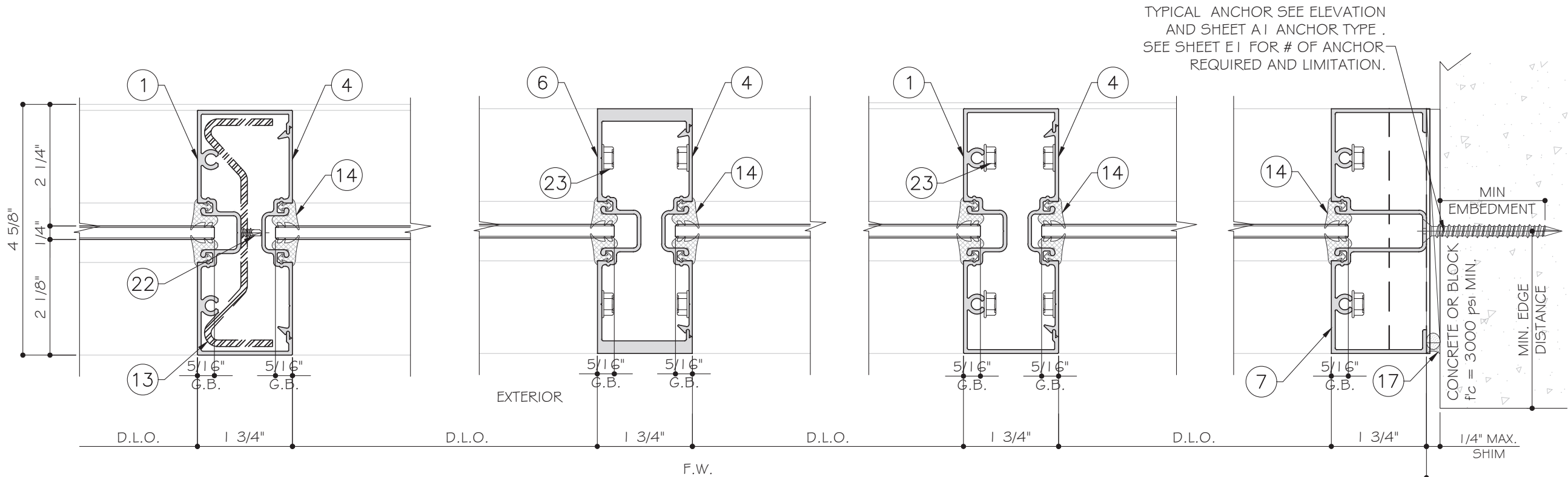
FLORIDA APPROVAL:

FL #17962.1

SHEET TITLE:

D2

DRAWN: JAMES	DRAWING No:
DATE: 08/01/23	5 OF 11
DWG: AD20-29	

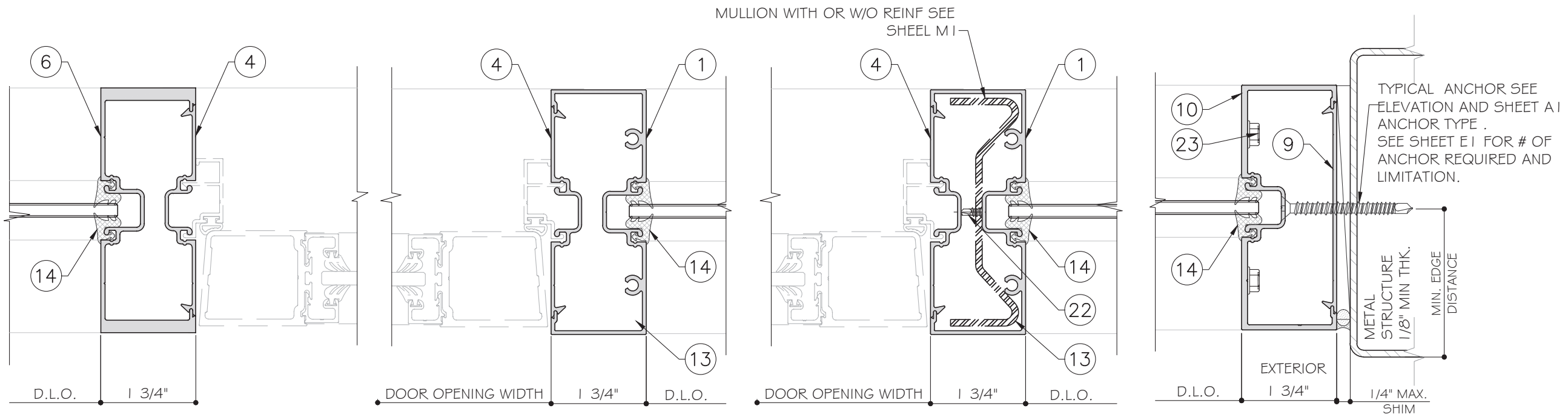


6 DETAIL
D2

7 DETAIL
D2

8 DETAIL
D2

9 DETAIL
D2

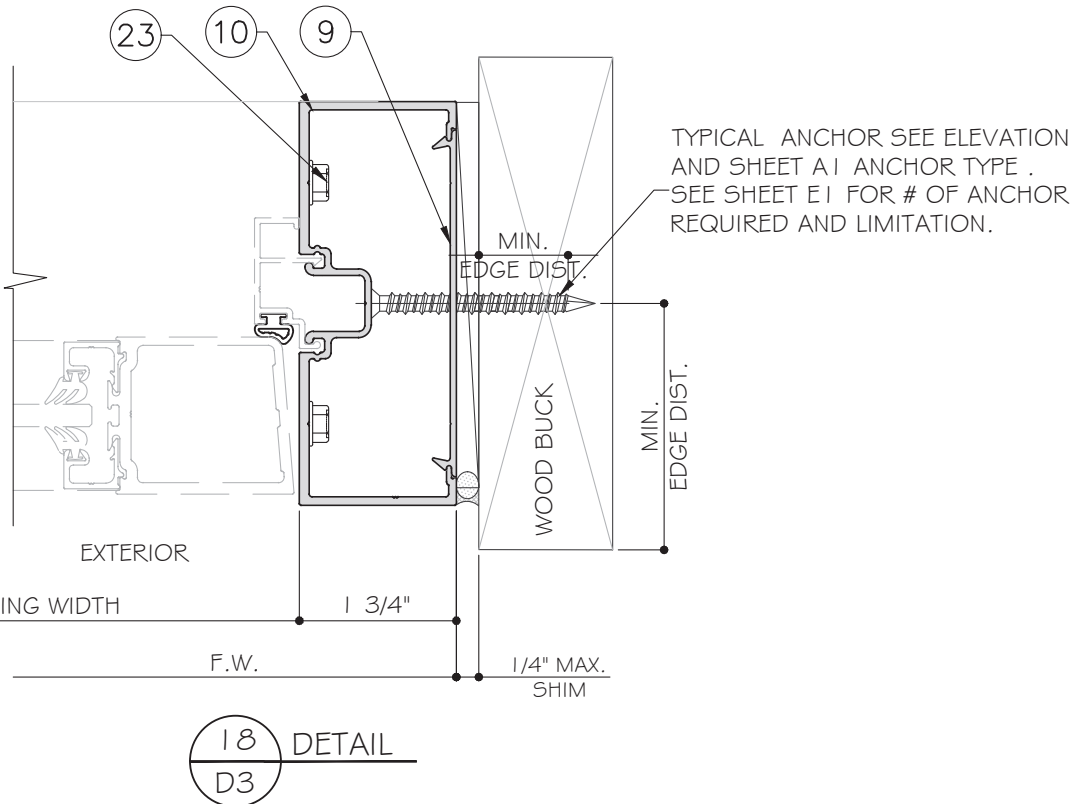
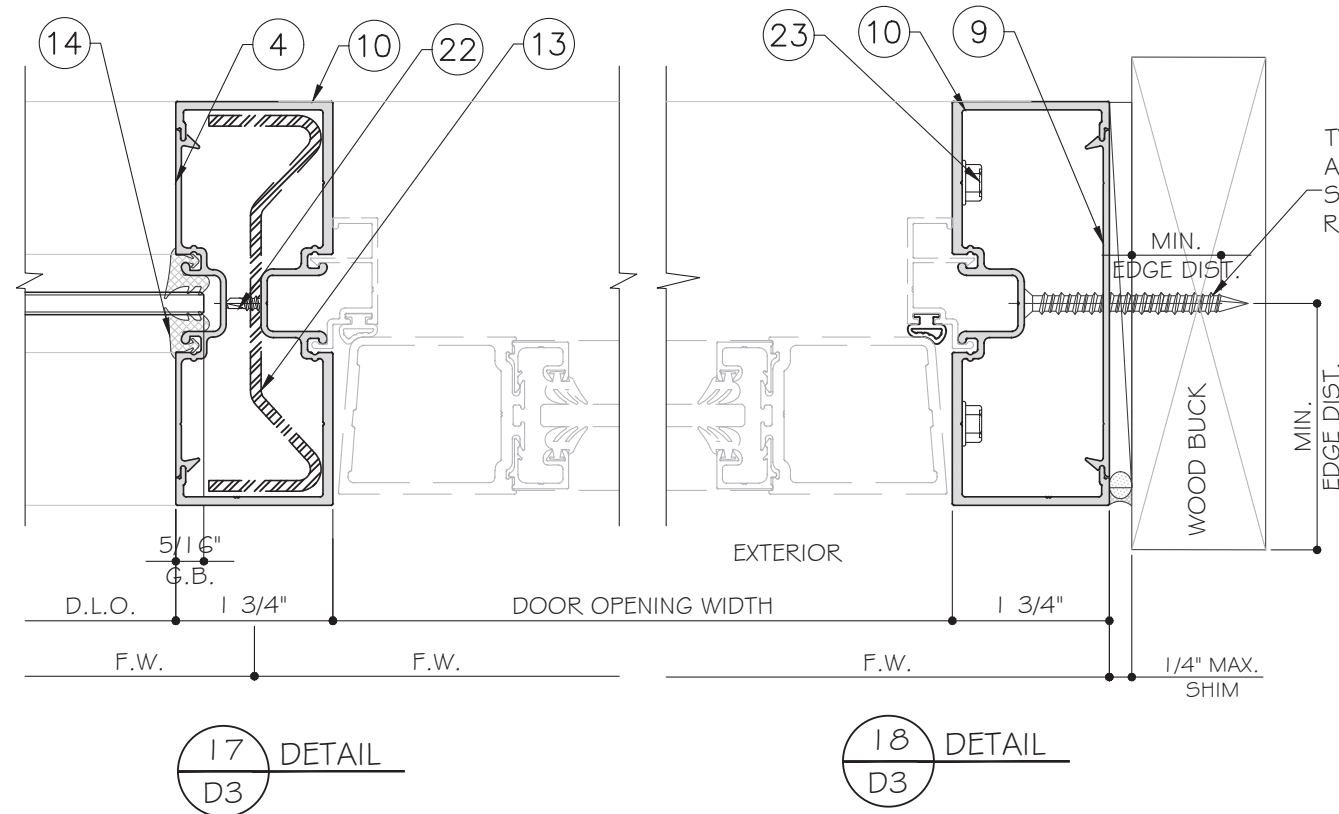
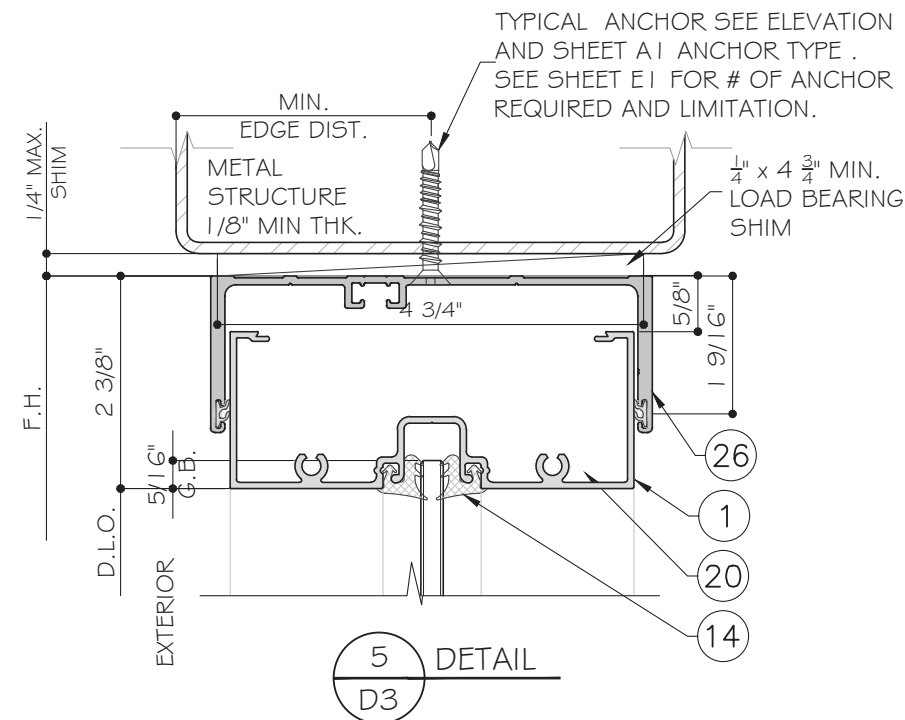
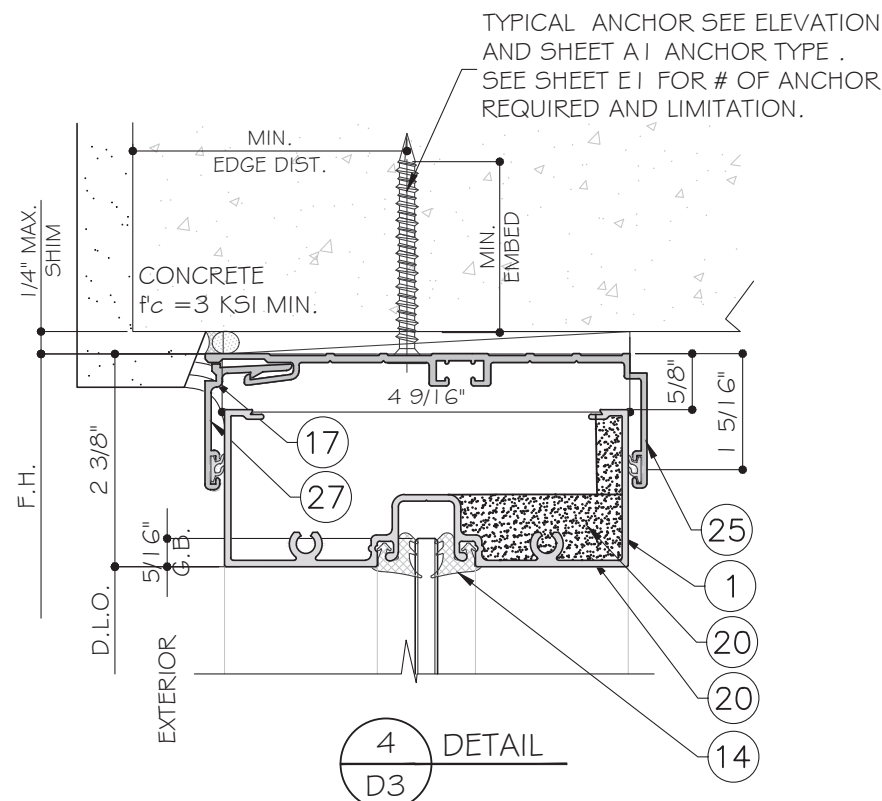
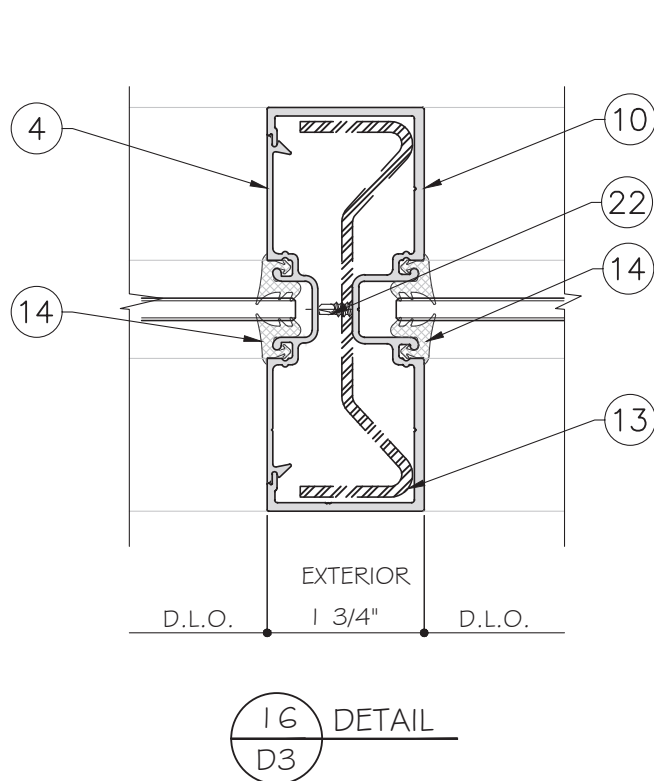
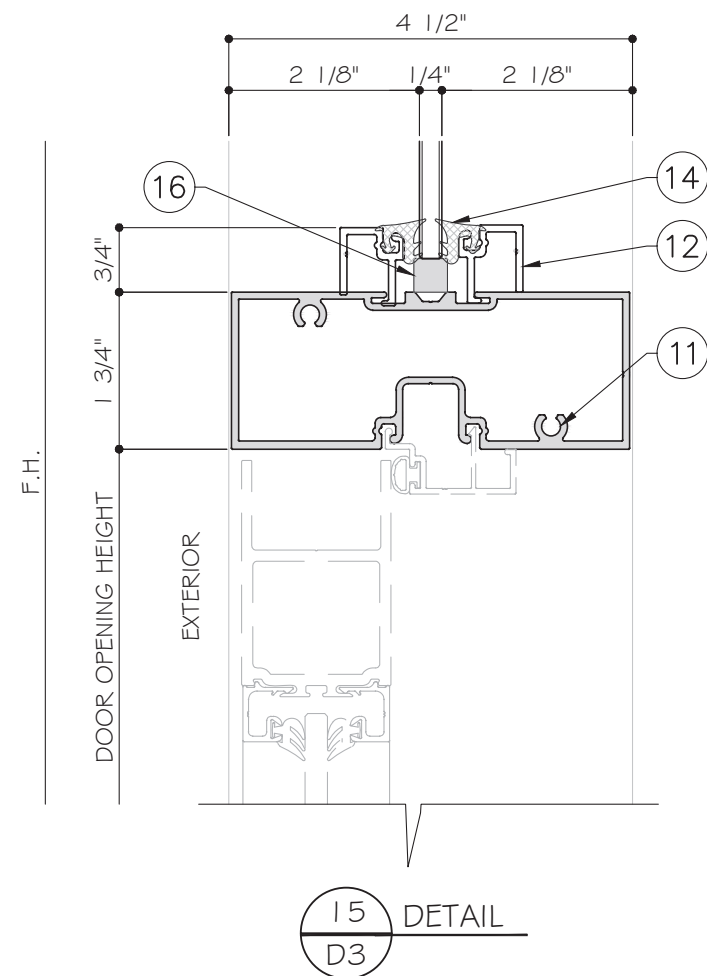


11 DETAIL
D2

12 DETAIL
D2

13 DETAIL
D2

14 DETAIL
D2



PRODUCT:

Series CG450

ALUMINUM
STOREFRONT
WALL

Resistor
PRODUCT SERIES

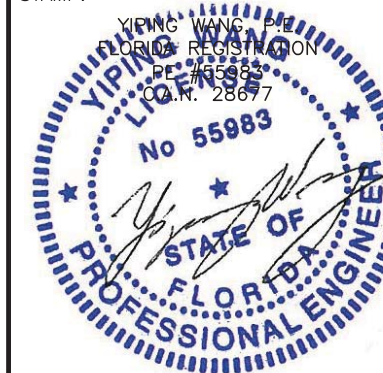
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SHEET TITLE:

D3

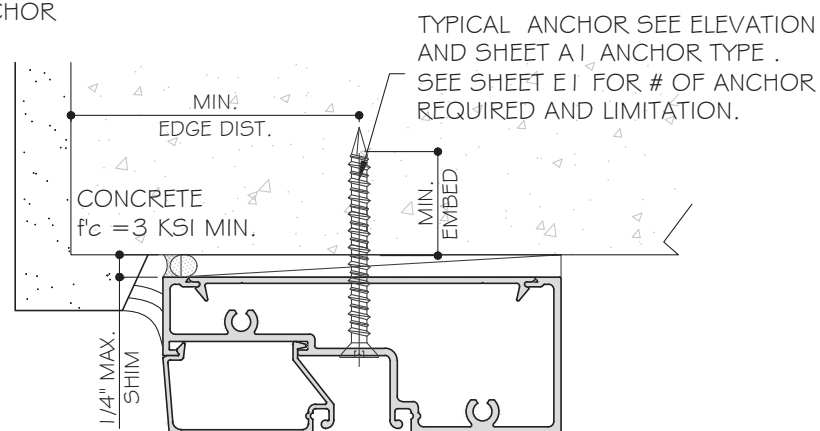
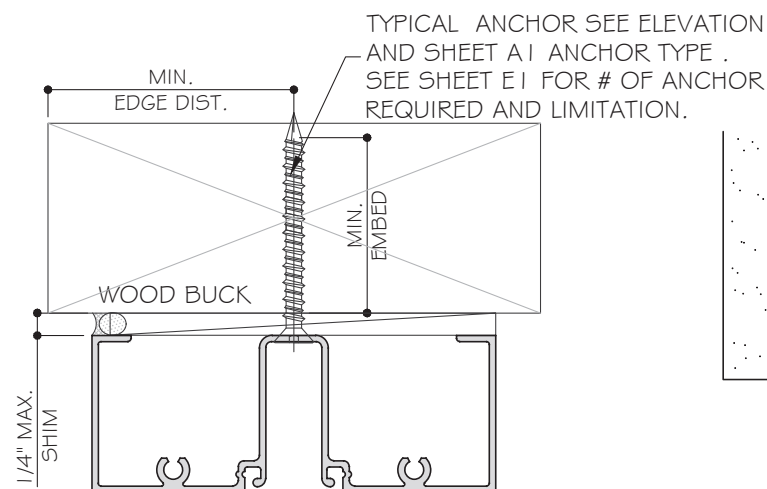
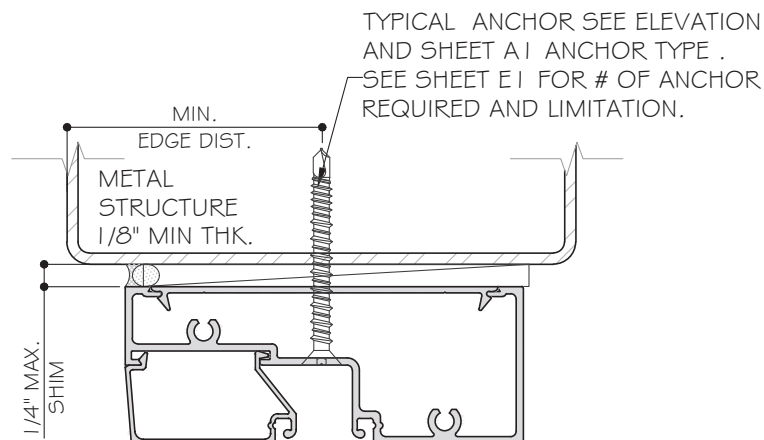
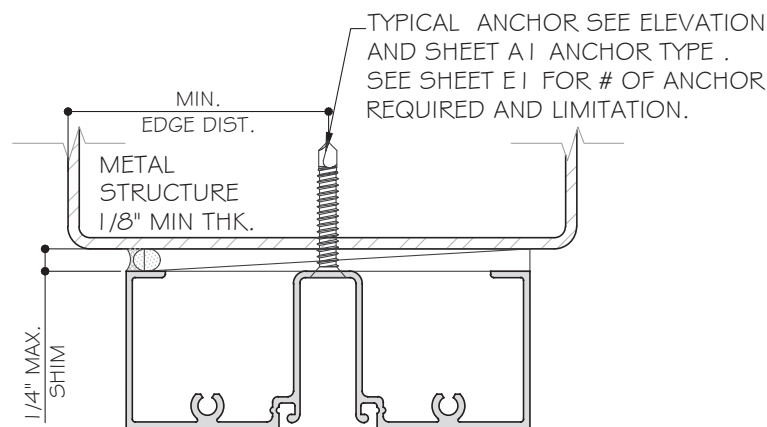
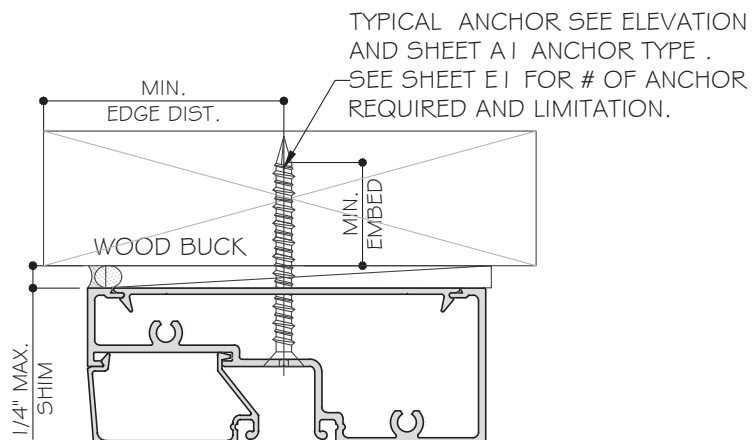
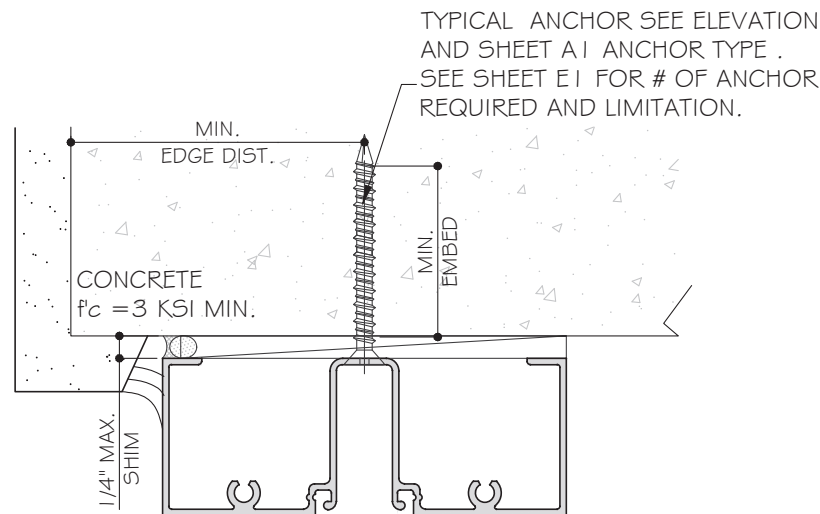
DRAWN: JAMES

DATE: 08/01/23

DWG: AD20-29

DRAWING No:

6 OF 11



TYPICAL ANCHORS:

SEE ELEVATIONS FOR SPACING

TYPE 'A' 1/4" DIA. TAPCON BY 'ITW' ($F_u = 120$ KSI, $F_y = 92$ KSI) OR
1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u = 164$ KSI, $F_y = 148$ KSI)

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD.

THRU 1 OR 2 WOOD BUCKS INTO CONCRETE.
1-3/4" MIN. EMBED INTO CONCRETE.

TYPE 'B' 1/4" DIA. TAPCON BY 'ITW' ($F_u = 120$ KSI, $F_y = 92$ KSI) OR
1/4" DIA. ULTRACON+ BY 'ULTRACON' ($F_u = 164$ KSI, $F_y = 148$ KSI)

DIRECTLY INTO CONC.
1-3/4" MIN. EMBED INTO CONC.

TYPE 'B1' 1/4" DIA. TAPCON BY 'ITW' ($F_u = 120$ KSI, $F_y = 92$ KSI) (JAMB ONLY)

DIRECTLY INTO MEDIUM WEIGHT CMU BLOCK
1-1/4" MIN. EMBED INTO MEDIUM WEIGHT CMU BLOCK OR

1/4" DIA. ULTRACON+ BY 'ULTRACON' ($F_u = 177$ KSI, $F_y = 155$ KSI)

1-1/4" MIN. EMBED INTO HOLLOW BLOCK
1-3/4" MIN. EMBED INTO GROUT FILLED BLOCK

TYPE 'C' 1/4" SMS (GRADE 5) ($F_u = 74$ KSI, $F_y = 57$ KSI)
OR SELF DRILLING SCREWS ($F_u = 120$ KSI, $F_y = 90$ KSI)

INTO APPROVED MULLIONS
(1/8" THK. MIN.) INTO METAL STRUCTURE.

STEEL : 12 GA. MIN. ($F_y = 36$ KSI MIN.)
ALUMINUM : 1/8" THK. MIN. (6063-T6 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

- INTO CONCRETE AND MASONRY = 2-1/2" MIN.
- INTO WOOD STRUCTURE = 1" MIN.
- INTO METAL STRUCTURE = 3/4" MIN.

WOOD SG = 0.55 MIN.
CONCRETE $f'_c = 3000$ PSI MIN.
C-90 HOLLOW/FILLED BLOCK $f'_m = 2000$ PSI MIN.,
NORMAL STRENGTH CMU (AT JAMB ONLY)



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PRODUCT:

Series CG450

ALUMINUM
STOREFRONT
WALL



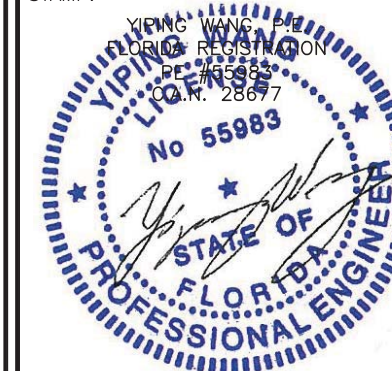
REV#	DATE/REMARKS
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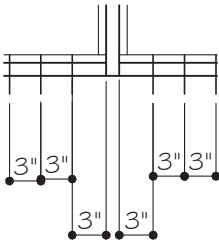
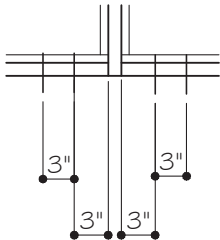
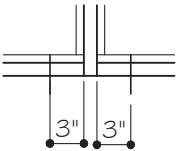
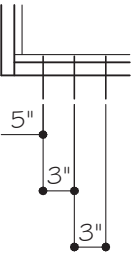
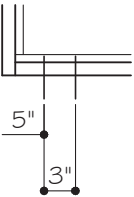
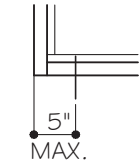
SHEET TITLE:

A1

DRAWN: JAMES	DRAWING No:
DATE: 08/01/23	7 OF 11
DWG: AD20-29	

DESIGN LOAD CAPACITY (PSF)						
NOMINAL DIMENSION		ANCHOR TYPES				
MULLION (in)	FRAME (in)	A1	B1/C1	A2	B2/C2	A3
		1/4" SHIM				
36	60	52.5	67.0	67.0	67.0	67.0
42		45.0	67.0	67.0	67.0	67.0
48		39.4	61.8	67.0	67.0	67.0
54		35.0	54.9	62.2	67.0	67.0
60		31.5	49.4	56.0	67.0	67.0
30	66	57.3	67.0	67.0	67.0	67.0
36		47.8	67.0	67.0	67.0	67.0
42		40.9	64.2	67.0	67.0	67.0
48		35.8	56.2	63.6	67.0	67.0
54		31.8	49.9	56.6	67.0	67.0
60		28.7	44.9	50.9	67.0	67.0
30	72	52.5	67.0	67.0	67.0	67.0
36		43.8	67.0	67.0	67.0	67.0
42		37.5	58.9	66.7	67.0	67.0
48		32.8	51.5	58.3	67.0	67.0
54		29.2	45.8	51.9	67.0	67.0
60		26.3	41.2	46.7	67.0	67.0
30	78	48.5	67.0	67.0	67.0	67.0
36		40.4	63.4	67.0	67.0	67.0
42		34.6	54.3	61.5	67.0	67.0
48		30.3	47.5	53.8	67.0	67.0
54		26.9	42.3	47.9	67.0	67.0
60		24.2	38.0	43.1	67.0	67.0
30	84	45.0	67.0	67.0	67.0	67.0
36		37.5	58.9	66.7	67.0	67.0
42		32.2	50.4	57.1	67.0	67.0
48		28.1	44.1	50.0	67.0	67.0
54		25.0	39.2	44.4	67.0	67.0
60		22.5	35.3	40.0	67.0	67.0
30	90	42.0	65.4	67.0	67.0	67.0
36		35.0	54.9	62.2	67.0	67.0
42		30.0	470.1	53.3	67.0	67.0
48		26.3	41.2	46.7	67.0	67.0
54		23.3	36.6	41.5	67.0	67.0
60		21.0	33.0	37.3	65.9	63.0
30	96	39.4	61.8	67.0	67.0	67.0
36		32.8	51.5	58.3	67.0	67.0
42		28.1	44.1	50.0	67.0	67.0
48		24.6	38.6	43.8	67.0	67.0
54		21.9	34.3	38.9	67.0	65.7
60			30.9	35.0	61.8	59.1

DESIGN LOAD CAPACITY (PSF)						
NOMINAL DIMENSION		ANCHOR TYPES				
MULLION (in)	FRAME (in)	A1	B1/C1	A2	B2/C2	A3
		1/4" SHIM				
36	102	30.9	48.5	54.9	67.0	67.0
42		26.5	41.5	47.1	67.0	67.0
48		23.2	36.4	41.2	67.0	67.0
54		20.6	32.3	36.6	64.6	61.8
60		18.5	29.1	32.9	58.2	55.6
30	108	35.0	54.9	62.2	67.0	67.0
36		29.2	45.8	51.9	67.0	67.0
42		25.0	39.2	44.4	67.0	67.0
48		21.9	34.3	38.9	67.0	65.7
54		19.5	30.5	34.6	61.0	58.4
60		17.5	27.5	31.1	54.9	52.5
30	114	33.2	52.0	58.9	67.0	67.0
36		27.6	43.4	49.1	67.0	67.0
42		23.7	37.2	42.1	67.0	67.0
48		20.7	32.5	36.8	65.1	62.2
54		18.4	28.9	32.7	57.8	55.3
60		16.6	26.0	29.5	52.0	49.8
30	120	31.5	49.4	56.0	67.0	67.0
36		26.3	41.2	46.7	67.0	67.0
42		22.5	35.3	40.0	67.0	67.0
48		19.5	30.9	35.0	61.8	59.1
54		17.5	27.5	31.1	54.9	52.5
60		15.8	24.7	28.0	49.4	47.3
30	126	30.0	47.1	53.3	67.0	67.0
36		25.0	39.2	44.4	67.0	67.0
42		21.4	33.6	38.1	67.0	64.3
48		18.8	29.4	33.3	58.9	56.3
30	132	28.7	44.9	50.9	67.0	67.0
36		23.9	37.5	42.4	67.0	67.0
42		20.5	32.1	36.4	64.2	61.4
48		17.9	28.1	31.8	56.2	53.7
30	138	27.4	43.0	48.7	67.0	67.0
36		22.8	35.8	40.6	67.0	67.0
42		19.6	30.7	34.8	61.4	58.7
48		17.1	26.9	30.4	53.7	51.4
30	144	26.3	41.2	46.7	67.0	67.0
36		21.9	34.3	38.9	68.7	65.7
42		18.8	29.4	33.3	58.9	56.3
48		16.4	25.8	29.2	51.5	49.3



A1, B1, C1

A2, B2, C2

A3

ANCHORS TYPES: SEE SHEET 9 FOR DESCRIPTION

- A1 = (1) ANCHORS TYPE 'A' AT JAMB OR EACH SIDE OF MULLION
A2 = (2) ANCHORS TYPE 'A' AT JAMB OR EACH SIDE OF MULLION
A3 = (3) ANCHORS TYPE 'A' AT JAMB OR EACH SIDE OF MULLION

- B1 = (1) ANCHORS TYPE 'B' AT JAMB OR EACH SIDE OF MULLION
B2 = (2) ANCHORS TYPE 'B' AT JAMB OR EACH SIDE OF MULLION

- C1 = (1) ANCHORS TYPE 'C' AT JAMB OR EACH SIDE OF MULLION
C2 = (2) ANCHORS TYPE 'C' AT JAMB OR EACH SIDE OF MULLION

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.



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 **Resistor**
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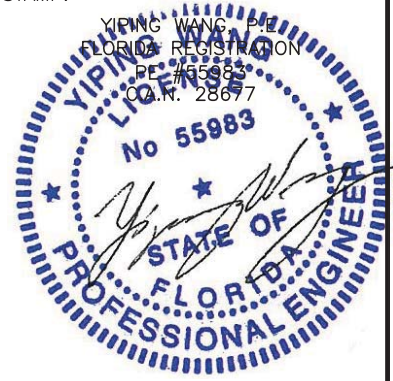
ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

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Miramar, FL 33027
P: 786.360.2786
mcy@mcyengineering.com
www.MCYEngineering.com

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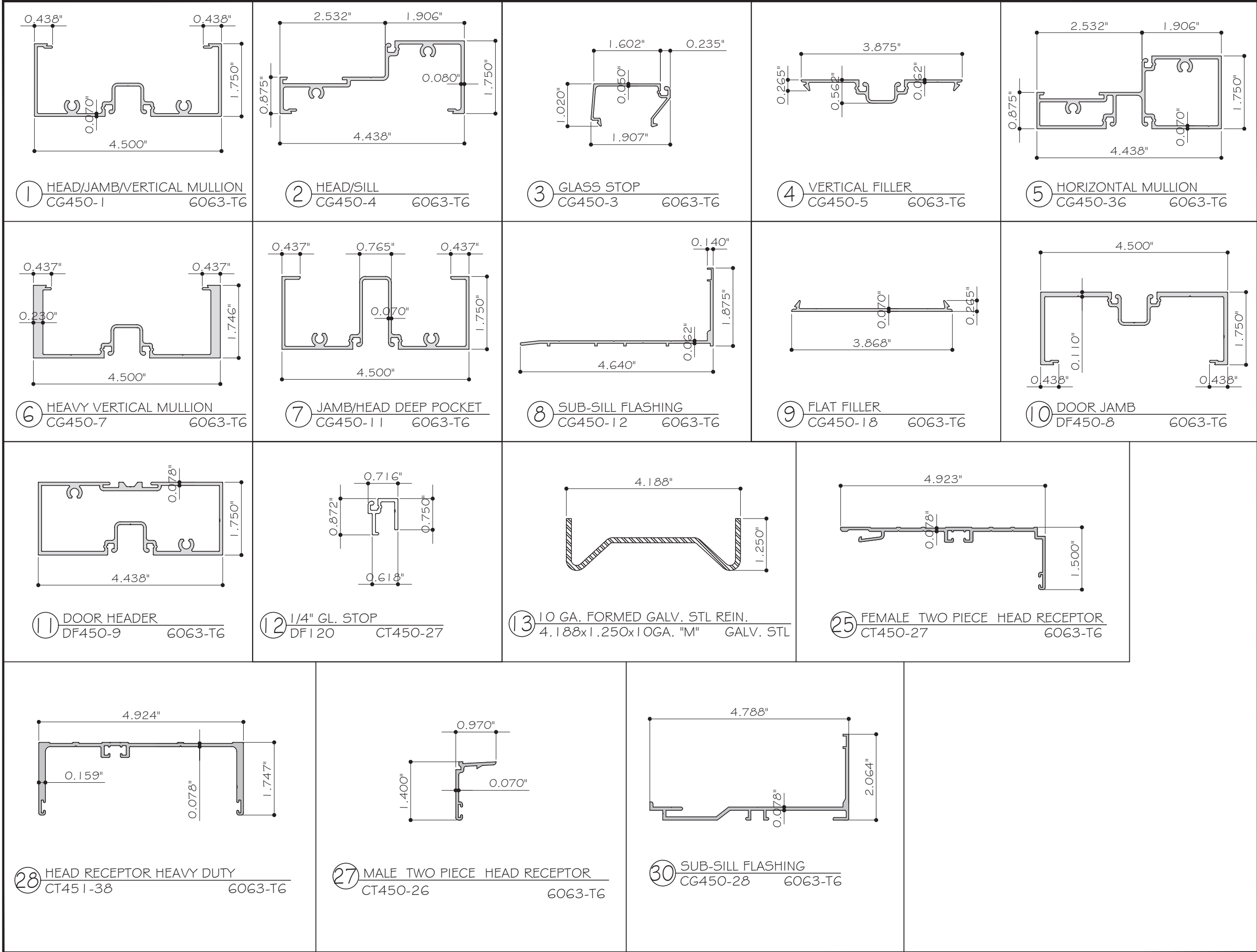
FLORIDA APPROVAL:

FL #17962.1

SHEET TITLE:

A2

DRAWN: JAMES	DRAWING No:
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DWG: AD20-29	



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PARTS

DRAWN: JAMES	DRAWING No:
DATE: 08/01/23	9 OF 11
DWG: AD20-29	

BILL OF MATERIALS				
ITEM	PART	DESCRIPTION	MATERIAL	MANUF. / REMARKS
1	CG450-1	HEAD/JAMB/VERTICAL MULLION	ALUM. 6063-T6	BONNEL
2	CG450-4	HEAD/SILL	ALUM. 6063-T6	BONNEL
3	CG450-3	GLASS STOP	ALUM. 6063-T6	BONNEL
4	CG450-5	VERTICAL FILLER	ALUM. 6063-T6	BONNEL
5	CG450-36	HORIZONTAL MULLION	ALUM. 6063-T6	BONNEL
6	CG450-7	HEAVY VERTICAL MULLION	ALUM. 6063-T6	BONNEL
7	CG450-11	JAMB/HEAD DEEP POCKET	ALUM. 6063-T6	BONNEL
8	CG450-12	SUB-SILL FLASHING	ALUM. 6063-T6	BONNEL
9	CG450-18	FLAT FILLER	ALUM. 6063-T6	BONNEL
10	DF450-8	DOOR JAMB	ALUM. 6063-T6	BONNEL
11	DF450-9	DOOR HEADER	ALUM. 6063-T6	BONNEL
12	DF120	1/4" GL. STOP	ALUM. 6063-T6	BONNEL
13	ST450-4	10 GA. FORMED GALV. STL REIN.	GALV. STL	VARIES
14	RG-1	GLAZING GASKET	EPDM,DURO 70+/-5 SHORE-A	VARIES
15	RSB-1	OUTSIDE GLAZED SETTING BLOCK @ 1/4" POINT	EPDM,DURO 85+/-5 SHORE-A	TRULITE GLASS & ALUMINUM
16	H62A	OUTSIDE GLAZED SETTING BLOCK @ 1/8" POINT.	EPDM,DURO 85+/-5 SHORE-A	-
17	DOWSIL™-790 OR EQUAL	JOINT /PERIMETER SEALANT	SILICONE	DOWSIL™
18	DOWSIL™-1199 OR EQUAL	INTERNAL SEALANT	SILICONE	DOWSIL™
19	ED-450	END DAM	ABS PLASTIC	TRULITE GLASS & ALUM. SER.
20	GT-1	JOINT SEALANT TAPE	BUTYL	SCHNEE-MOOREHEAD
21	FAS8-4	FASTENER TO ATTACH END DAMS TO FLASHING #8 x 1/4" PFHH SMS	STEEL	VARIES
22	FAS8-6	FASTENER TO ATTACH STL. TO VERT. MULL #8-32 x 3/8" FHP TYPE "F"	STEEL	VARIES
23	FAS14-2	TYPICAL SPLINE SCREW #14 x 1" HHSTS	STEEL	VARIES
25	CT450-27	FEMALE TWO PIECE HEAD RECEPTOR	ALUM. 6063-T6	BONNEL
26	CT451-38	HEAD RECEPTOR HEAVY DUTY	ALUM. 6063-T6	BONNEL
27	CT450-26	MALE TWO PIECE HEAD RECEPTOR	ALUM. 6063-T6	BONNEL
28	RSB-2	GLAZED SETTING BLOCK @ 1/4" POINT	EPDM,DURO 85+/-5 SHORE-A	TRULITE GLASS & ALUMINUM
29	RSC-450-1	GLAZED SETTING BLOCK	EPDM,DURO 85+/-5 SHORE-A	TRULITE GLASS & ALUMINUM
30	CG450-28	SUB-SILL FLASHING	ALUM. 6063-T6	BONNEL



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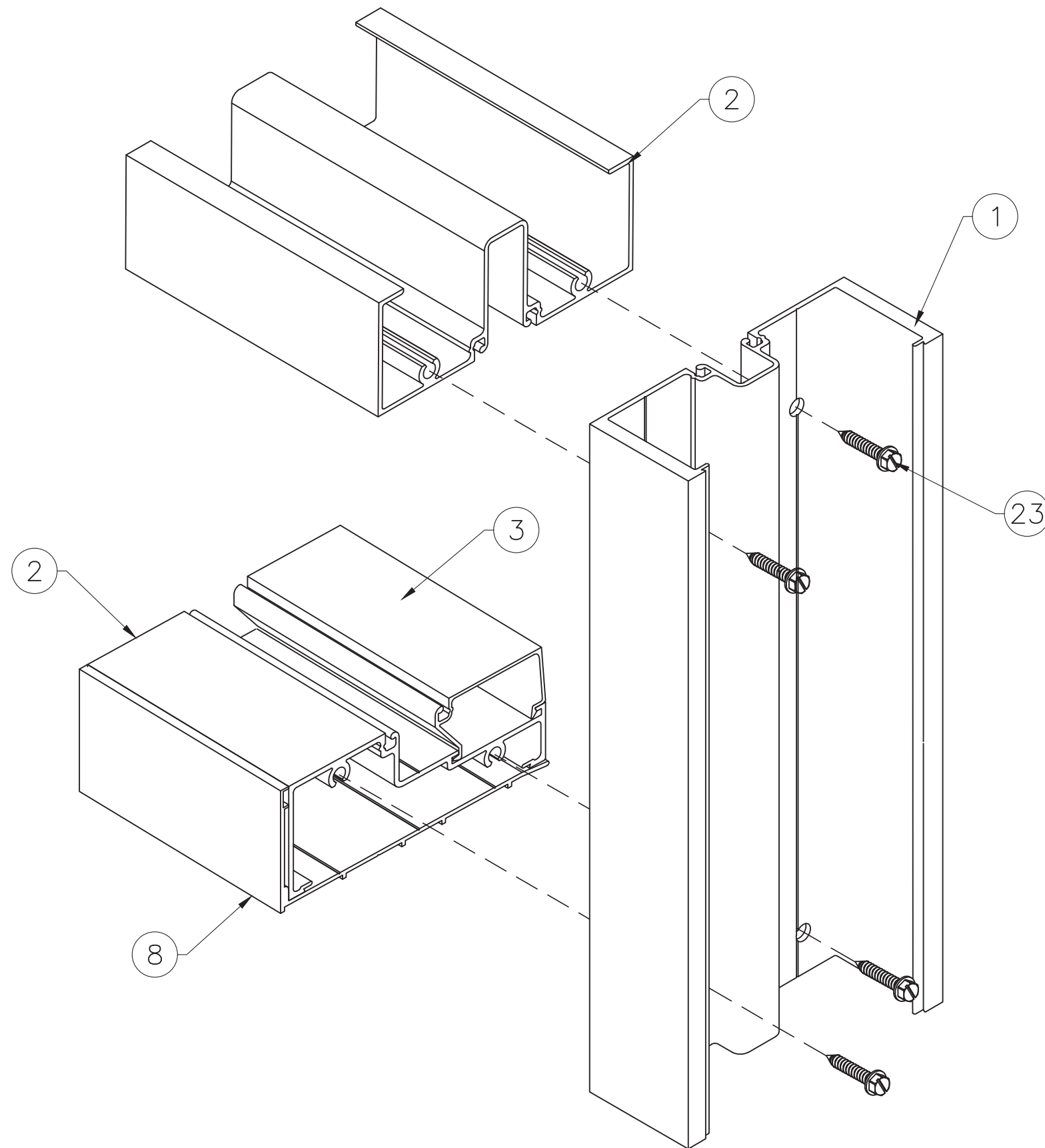
FLORIDA APPROVAL:

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SHEET TITLE:

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CORNER MULLION CONECTION



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