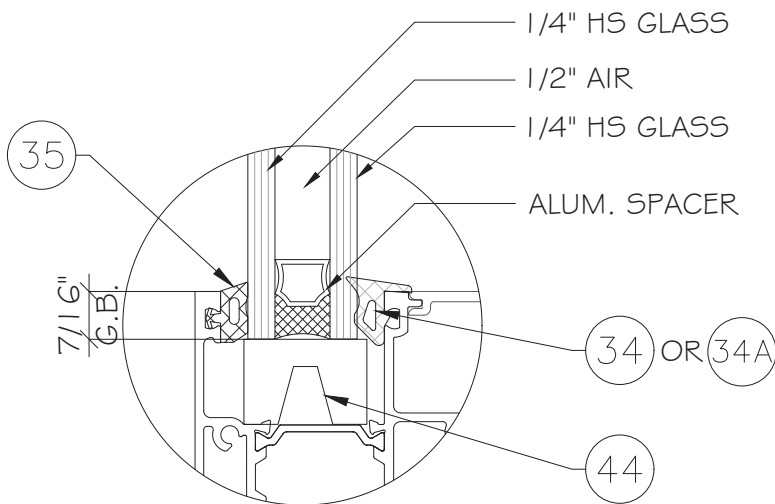
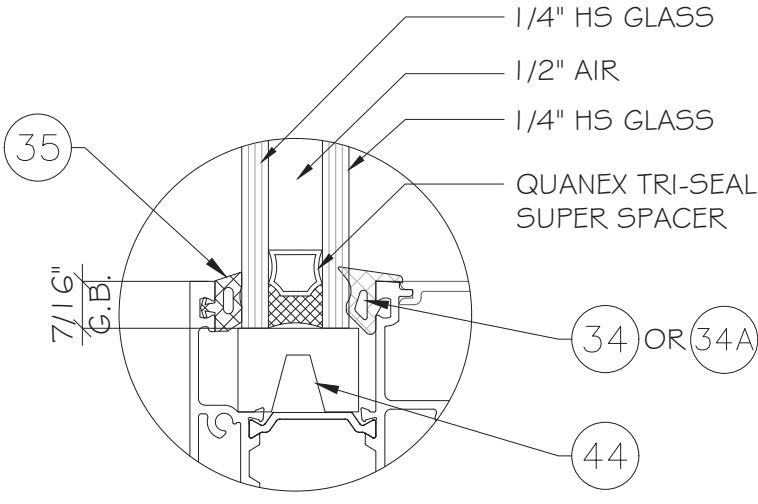


US ALUMINUM INC.

TT501 PRE-GLAZED & FIELD GLAZED WINDOW WALL
-NON IMPACT



GLASS TYPE "G1"



GLASS TYPE "G2"

NOTE:
GLASS COMPLIES WITH ASTM E 1300-09
(3 SEC. GUSTS).

GENERAL NOTES:

TT501 WINDOW WALL SYSTEM IS NON IMPACT SYSTEM TO BE USED OUTSIDE OF HVHZ. (NON HVHZ)

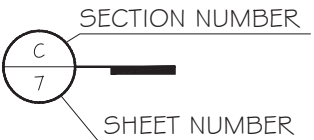
- CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.
- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 7TH EDITION (2020)/8TH EDITION (2023) NOT INCLUDING HIGH VELOCITY HURRICANE ZONE (NON-HVHZ).
- ULTIMATE LOAD OBTAINED FROM ASCE 7-16/ ASCE 7-22, 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.
- WOOD BUCKS OR STRUCTURES 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.
- 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.

USE CHARTS AS FOLLOWS.

- STEP 1: DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BUILDING HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-16/ ASCE 7-22 STANDARD.
- STEP 2: SEE CHART 1 ON SHEET G1 FOR GLASS OPTIONS AND MAX. D.L.O. AREA AND CAPACITY ALLOWED.
- STEP 3: SEE TYPICAL ELEVATION ON SHEET E1 & E2, CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHART 2 ON SHEET M1. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD REQUIRED FOR JOB. FOR SSG MULLION TYPE 'M3', CHECK STRUCTURAL SILICONE CAPACITY BASED ON CHART 1.1 ON SHEET G1, THE RESULT FROM CHART 2 & CHART 1.1 GOVERNS MULLION CAPACITY.
- STEP 4: USE CHARTS ON SHEET A1 TO A4, SELECT ANCHOR OPTION WITH DESIGN LOAD CAPACITY MORE THAN DESIGN LOAD SPECIFIED IN STEP 1.
- STEP 5: THE LOWEST VALUE RESULTING FROM STEPS 2, 3 & 4 THAT EXCEED THE DESIGN WIND PRESSURE DETERMINED THRU STEP 1 SHALL APPLY TO ENTIRE SYSTEM.

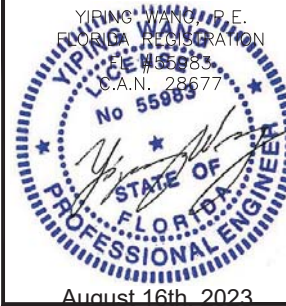
ABBREVIATIONS AND SYMBOLS

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



LIMITATIONS OF USE

- A- THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.
- B- 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.
- C- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- D- 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.
- E- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



TT501 PRE-GLAZED & FIELD GLAZED WINDOW WALL-N.I

US ALUMINUM INC.
950 SOLON ROAD
WAXAHACHINE, TEXAS 75165
TEL.: 972-937-9651

FL#39159

DATE	08.16.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	

COVER

DRAWING NO.
AD21-16

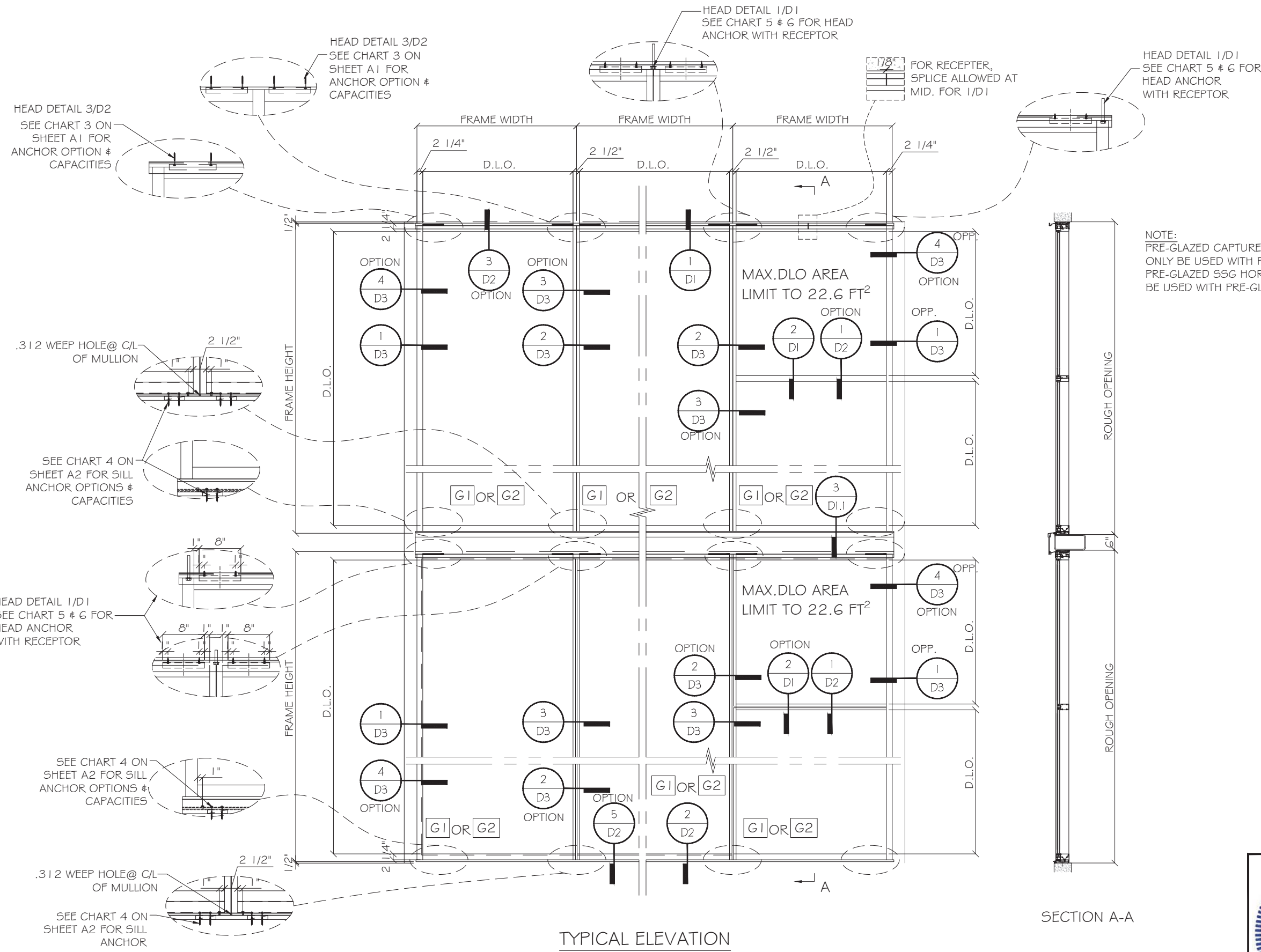
1 OF 19

NO.	DATE	DESCRIPTION
R2	08.16.23	FBC 2023

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MIRAMAR, FL 33027 P: 305.271.0117
www.MCYEngineering.com MCY@MCYENGINEERING.COM



NOTE:
PRE-GLAZED CAPTURED HORIZONTAL (2/D1) CAN ONLY BE USED WITH PRE-GLAZED MULLION (2/D3).
PRE-GLAZED SSG HORIZONTAL (1/D2) CAN ONLY BE USED WITH PRE-GLAZED SSG MULLION (3/D3)

TYPICAL ELEVATION
PRE-GLAZED CAPTURED AND SSG SYSTEM WITH SLAB COVER

SECTION A-A



REVISIONS	
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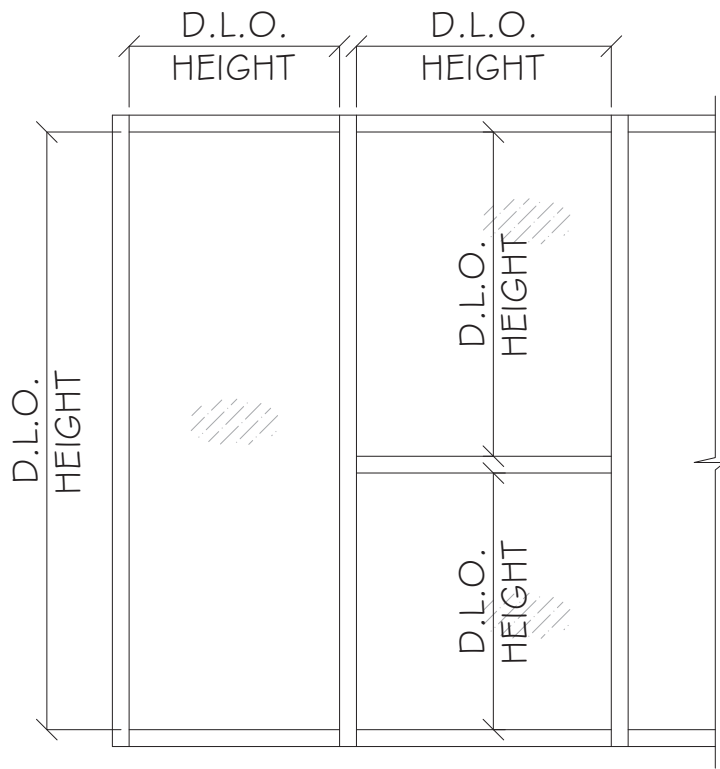
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FL#39159	
DATE	08.16.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	

E1
DRAWING NO. AD21-16
2 OF 19

CHART 1 - GLASS CAPACITY - PSF			
NOMINAL DIMENSIONS		GLASS TYPE "G1" & "G2"	
DLO WIDTH	DLO HEIGHT	EXT(+)	INT (-)
W (IN)	H (IN)	PSF	PSF
33 3/4	103	80	80
39 3/4		80	80
45 3/4		80	80
51 3/4		80	80
57 3/4		80	80
33 3/4	109	80	80
39 3/4		80	80
45 3/4		80	80
51 3/4		80	80
57 3/4		80	80
33 3/4	115	80	80
39 3/4		80	80
45 3/4		80	80
51 3/4		80	80
57 3/4		80	80
33 3/4	121	80	80
39 3/4		80	80
45 3/4		79.7	79.7
51 3/4		77.2	77.2
33 3/4	127	80	80
39 3/4		80	80
45 3/4		74.9	74.9
51 3/4		72.3	72.3
33 3/4	133	80	80
39 3/4		80	80
45 3/4		72.5	72.5
33 3/4	139	80	80
39 3/4		80	80
45 3/4		70	70

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



STEP 2: GLASS LOAD TABLES

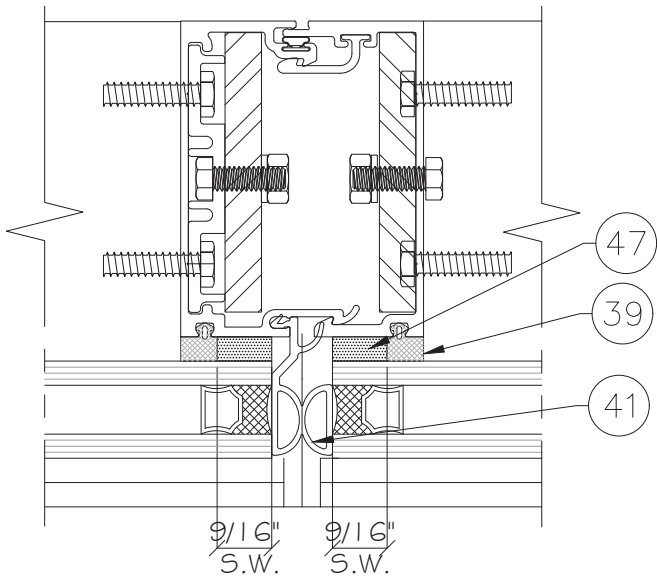
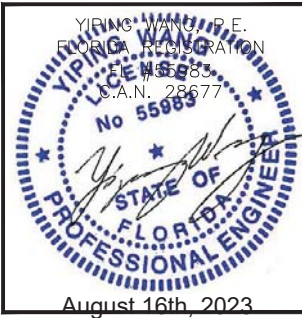


CHART 1.1 -SILICONE CAPACITY		
MULLION C-C DIM.	SILICONE WIDTH	CAPACITY
IN	IN	PSF
36	9/16	90.0
42	9/16	77.1
48	9/16	67.5
54	9/16	60.0
60	9/16	54.0



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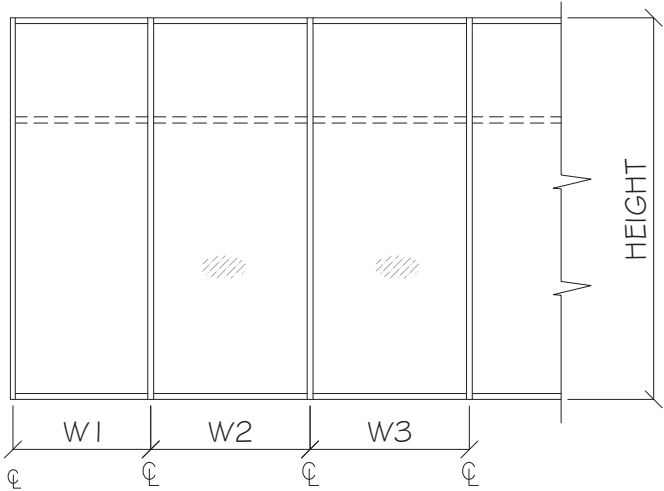
G1

DRAWING NO.
AD21-16

4 OF 19

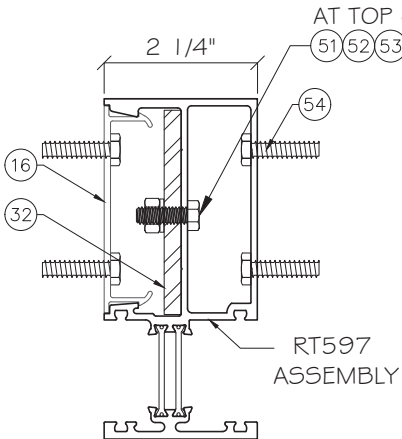
CHART 2- WINDOW WALL MULLION CAPACITY - PSF		
NOMINAL DIMENSIONS		WITH OR W/O HORIZONTAL
		M1, M2, M3, J1
WIDTH	HEIGHT	EXT(+) INT (-)
W (IN)	H (IN)	PSF
36	84	80
42		80
48		71
54		63
60		57
36	90	80
42		76
48		67
54		59
60		53
36	96	80
42		71
48		63
54		56
60		50
36	102	78
42		67
48		59
54		52
60		47
36	108	74
42		63
48		56
54		49
60		44
36	114	70
42		60
48		53
54		47
60		42
36	120	67
42		57
48		50
54		44
60		40
36	126	60
42		52
48		45
54		40

CHART 2- WINDOW WALL MULLION CAPACITY - PSF		
NOMINAL DIMENSIONS		WITH OR W/O HORIZONTAL
		M1, M2, M3, J1
WIDTH	HEIGHT	EXT(+) INT (-)
W (IN)	H (IN)	PSF
36	132	52
42		45
48		39
54		35
36	138	46
42		39
48		34
36	144	40
42		35
48		30



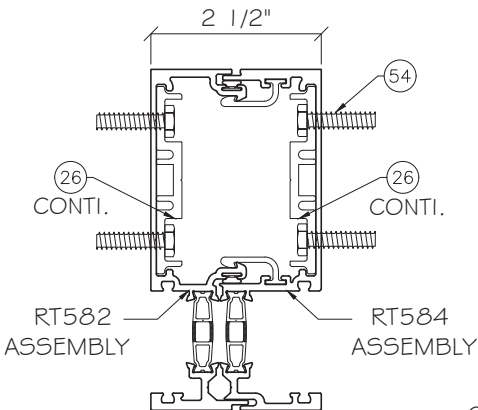
$$\text{WIDTH (W)} = \frac{W1 + W2}{2} \text{ OR } \frac{W2 + W3}{2} \quad (\text{FOR MULLION})$$

$$\text{WIDTH (W)} = W1 \quad (\text{FOR JAMB - J1})$$



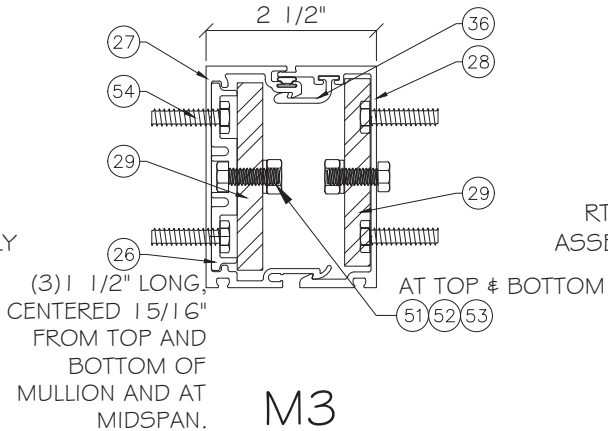
M1

	I _x IN ⁴	S _x IN ³
RT597	5.6507	2.2434
(32)	0.5625	0.375
I _{ALUM} + I _{STR} * 2.9	7.2820	(IN ALUM.)



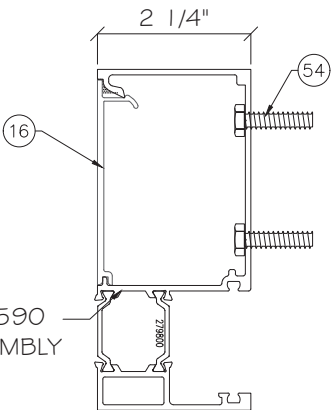
M2

	I _x IN ⁴	S _x IN ³
RT582/584	6.6782	2.5819
(2) (26)	0.5936	0.4317
TOTAL	7.2718	2.8114



M3

	I _x IN ⁴	S _x IN ³
RW554/555	2.2353	1.2842
(2) (29)	1.4852	1.0802
I _{ALUM} + I _{STR} * 2.9	6.5425	(IN ALUM.)



J1

	I _x IN ⁴	S _x IN ³
RT590 + (16)	4.2910	1.5420



REVISONS	NO.	DATE	DESCRIPTION
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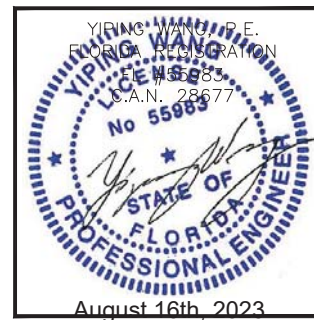
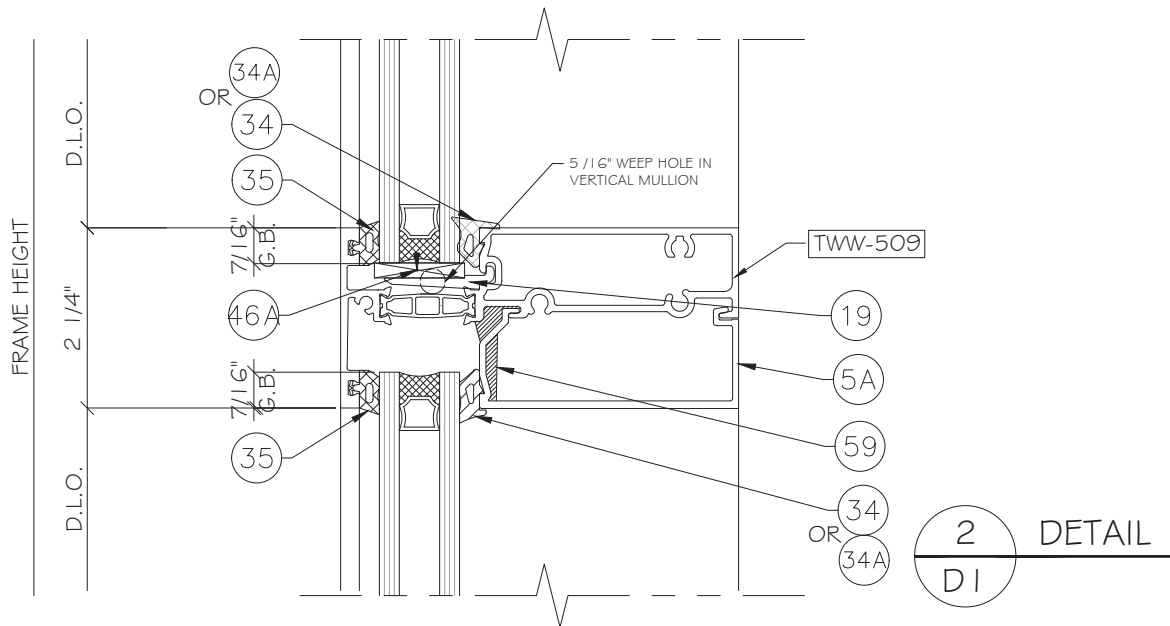
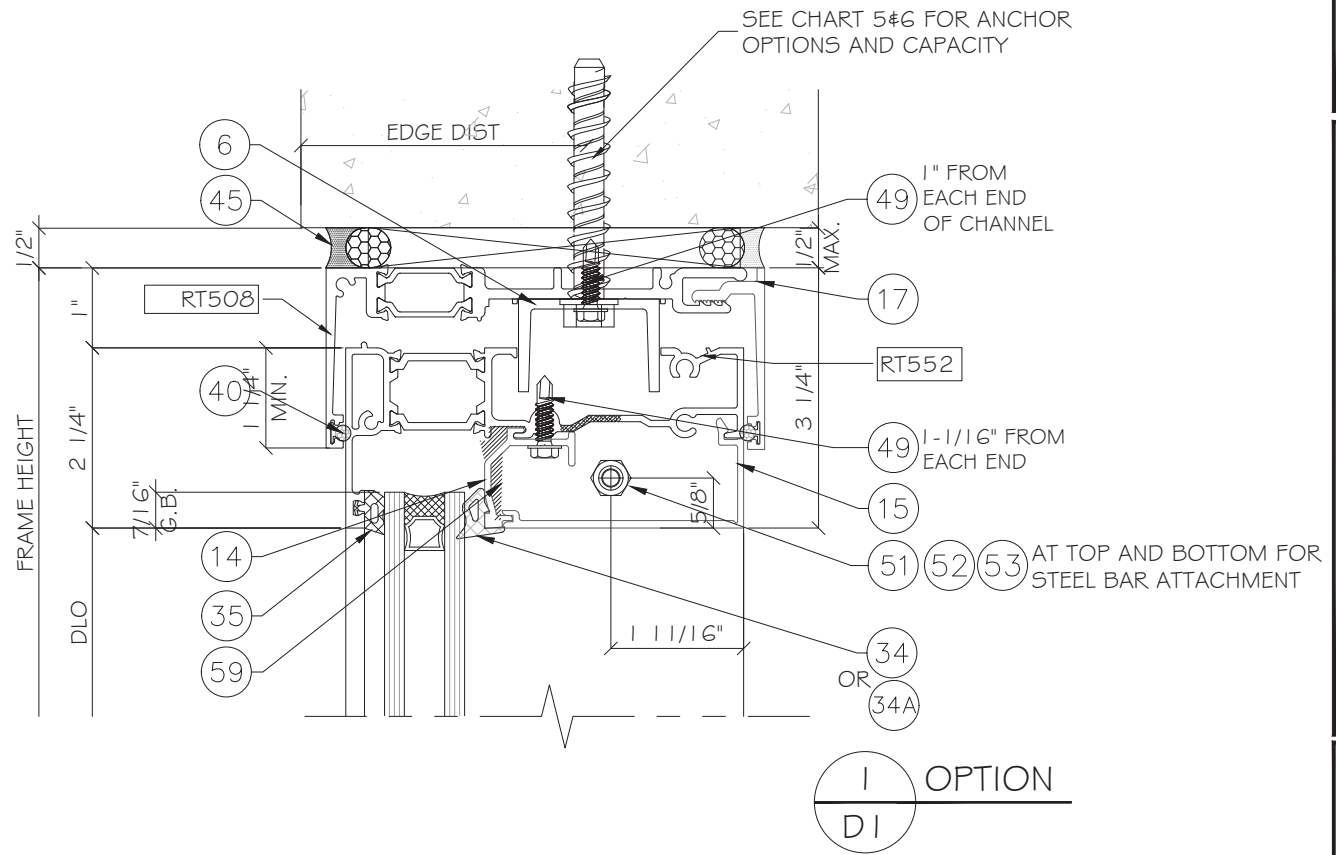
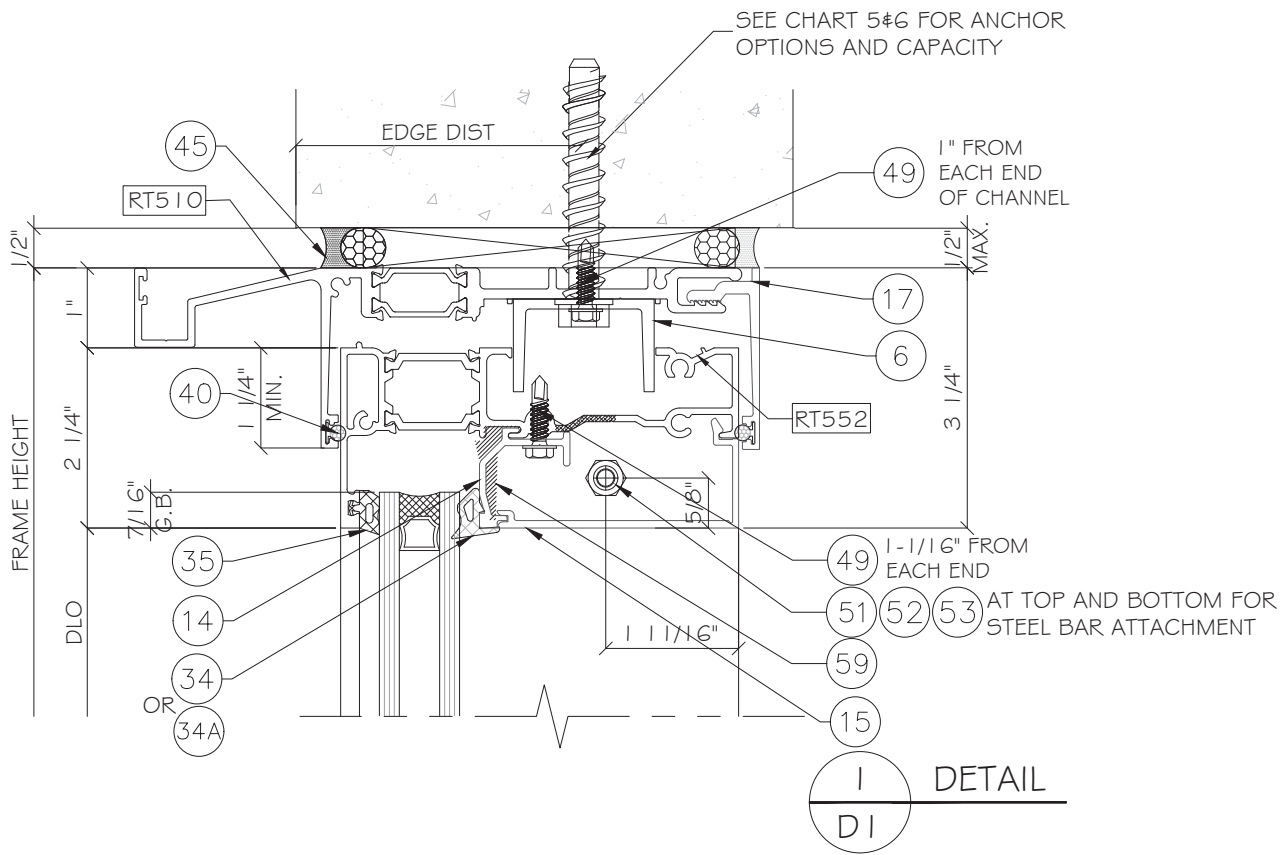
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950 SOLON ROAD
WAXAHACHINE, TEXAS 75165
TEL.: 972-937-9651

FL#39159
DATE 08.16.2023
SCALE AS NOTED
DRAWN James
PROJECT
M1
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5 OF 19



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6 OF 19

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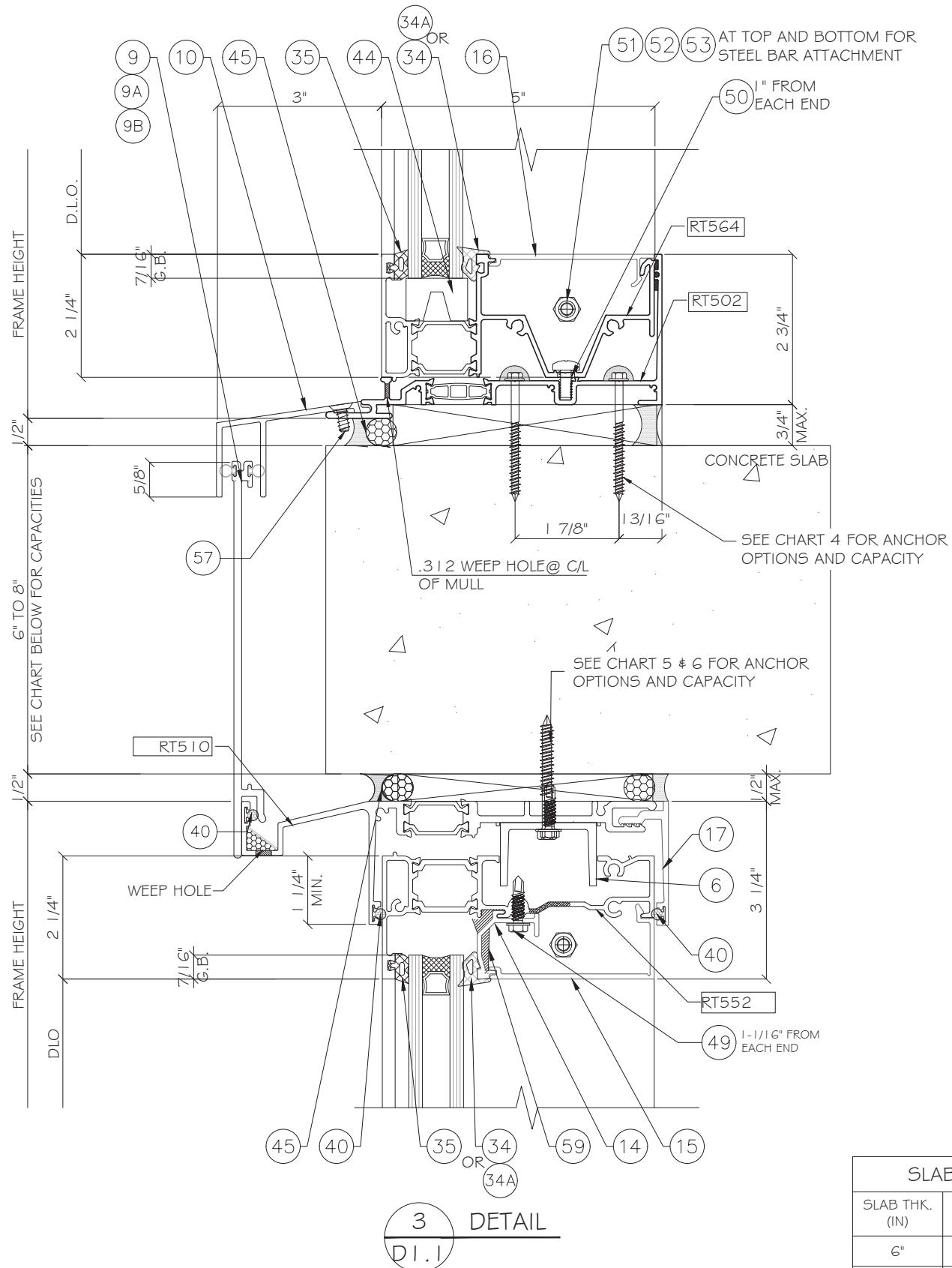
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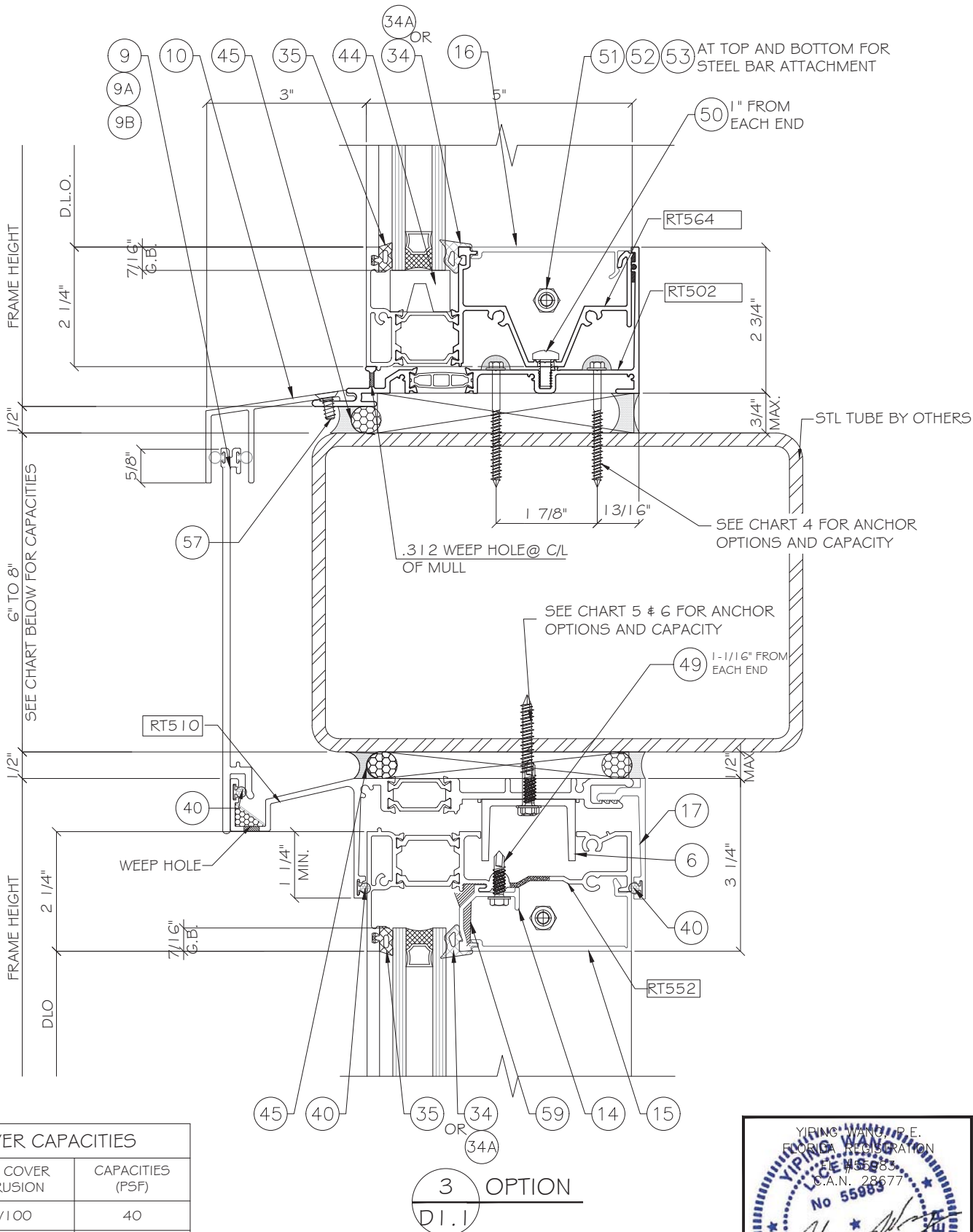
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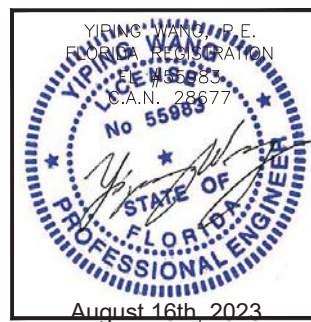
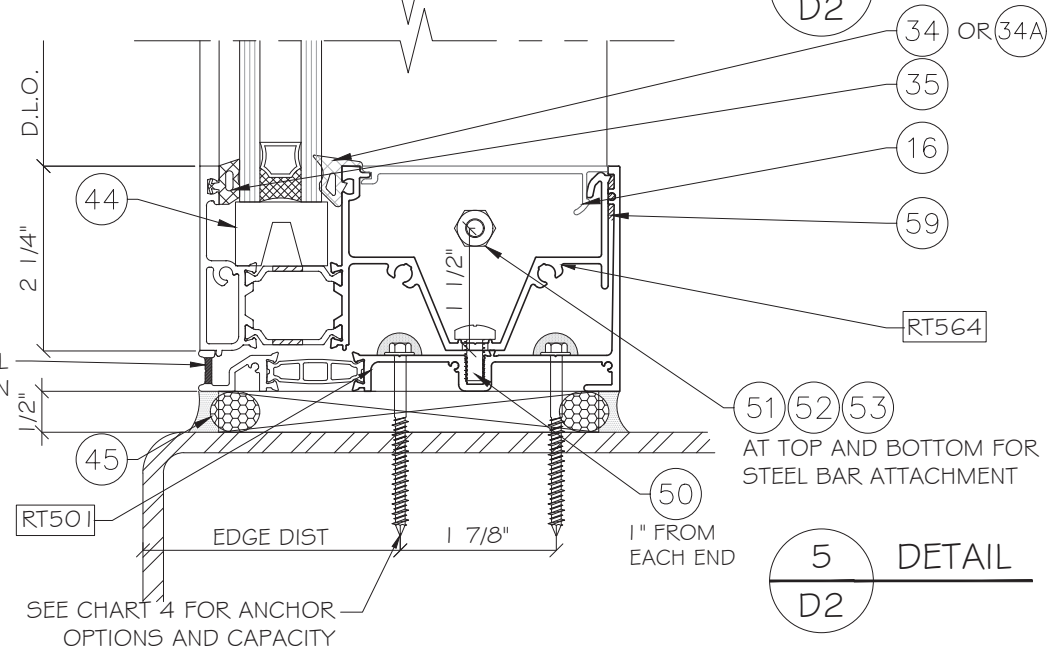
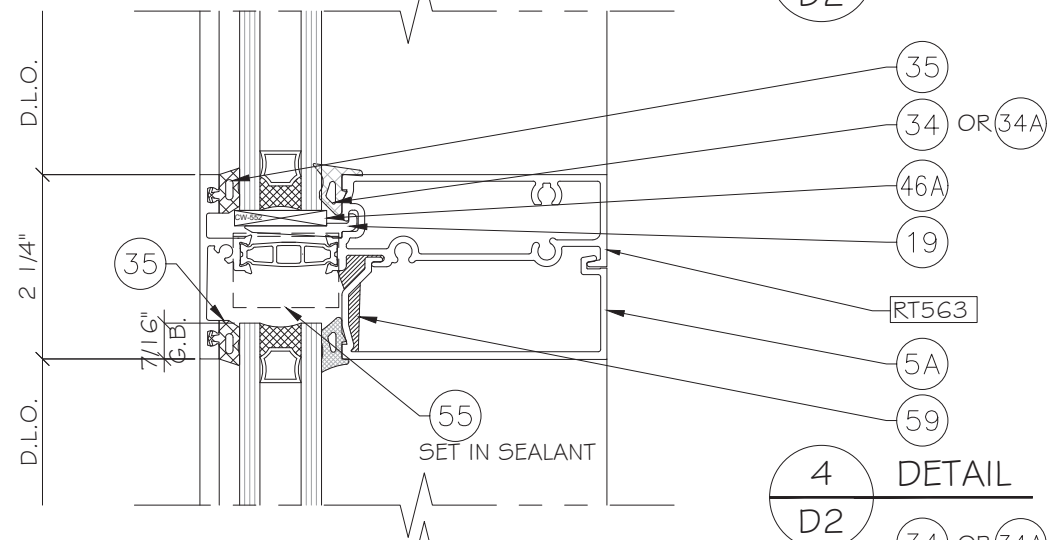
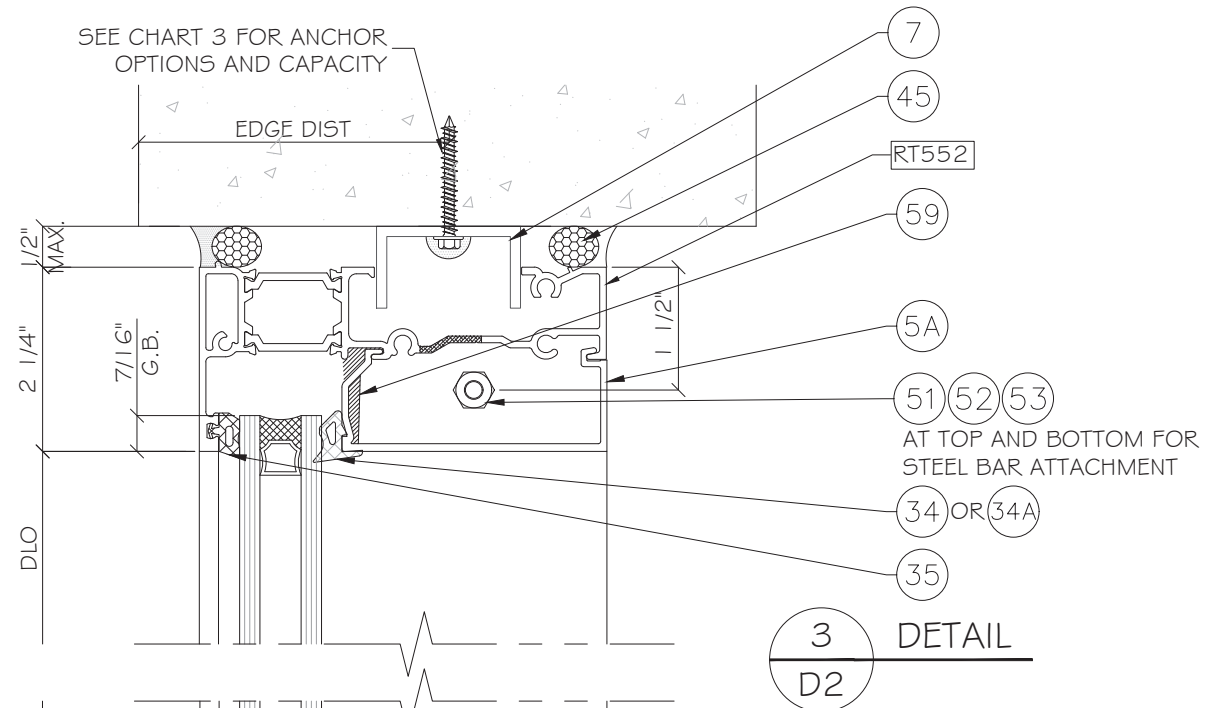
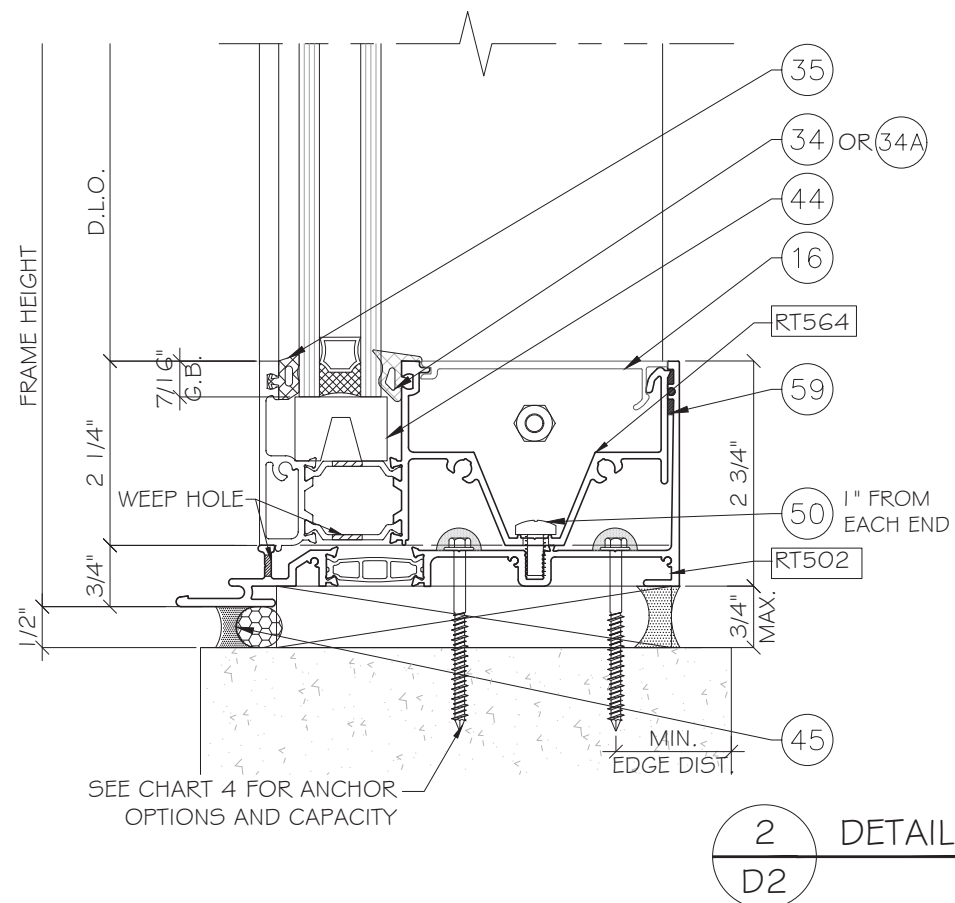
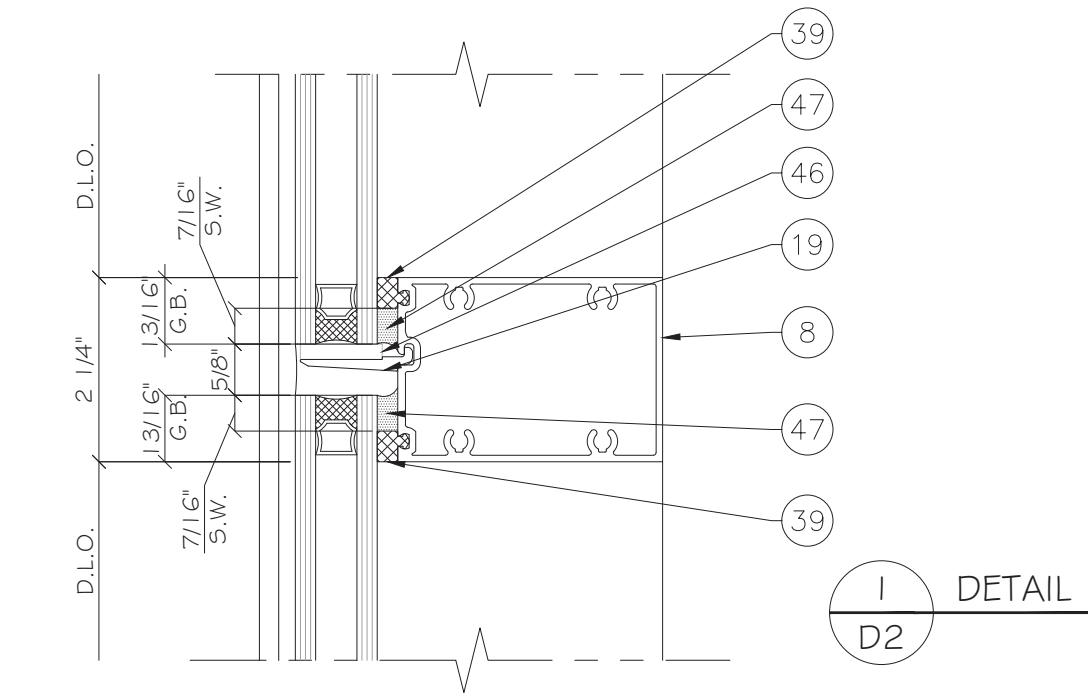
NO.	DATE	DESCRIPTION
R2	08.16.23	FBC 2023



SLAB COVER CAPACITIES		
SLAB THK. (IN)	SLAB COVER EXTRUSION	CAPACITIES (PSF)
6"	RW100	40
7"	RW101	25
8"	RW102	17



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D1.1	
DRAWING NO. AD21-16	
7 OF 19	



NO.	DATE	DESCRIPTION
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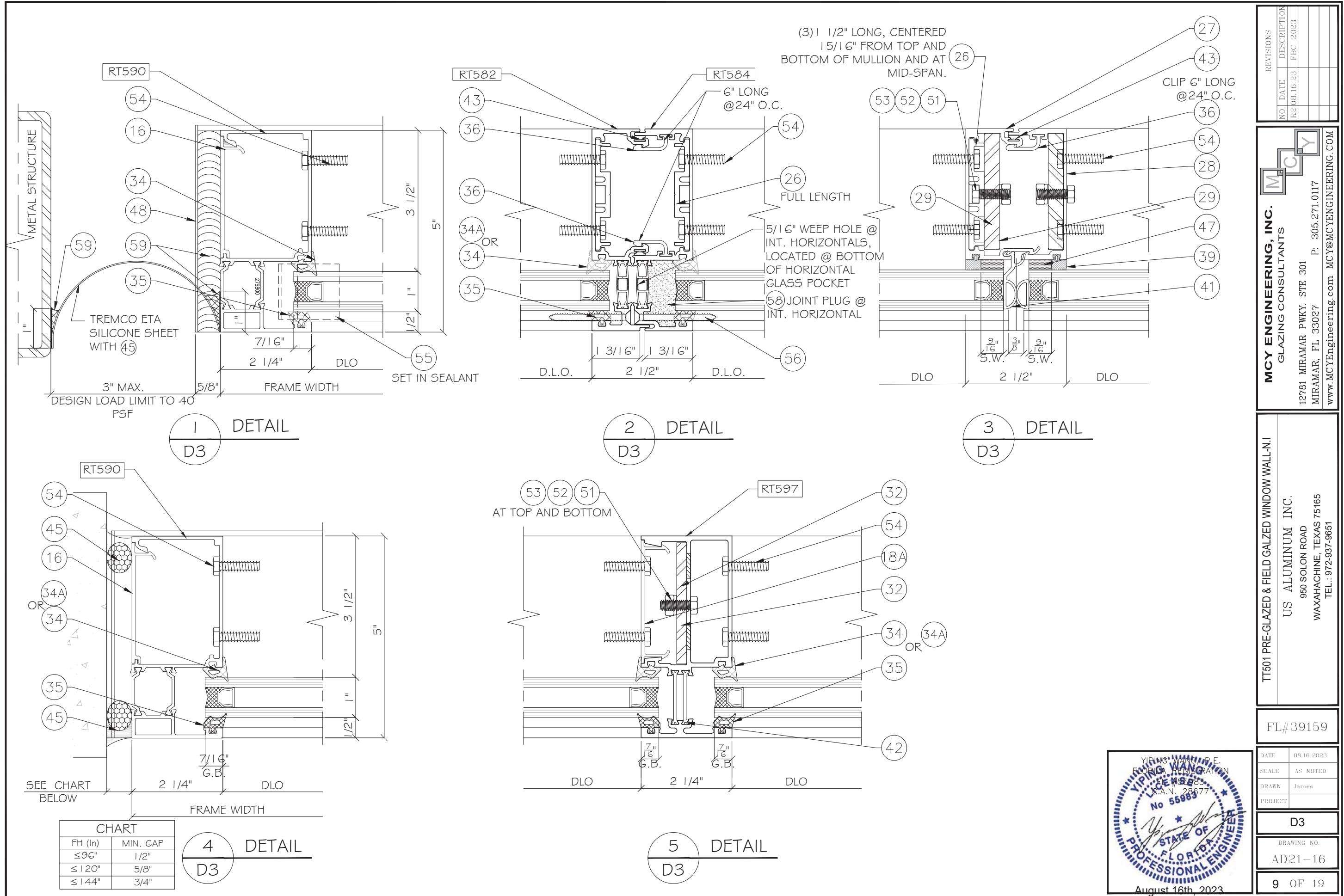
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DRAWING NO.	AD21-16
8 OF 19	



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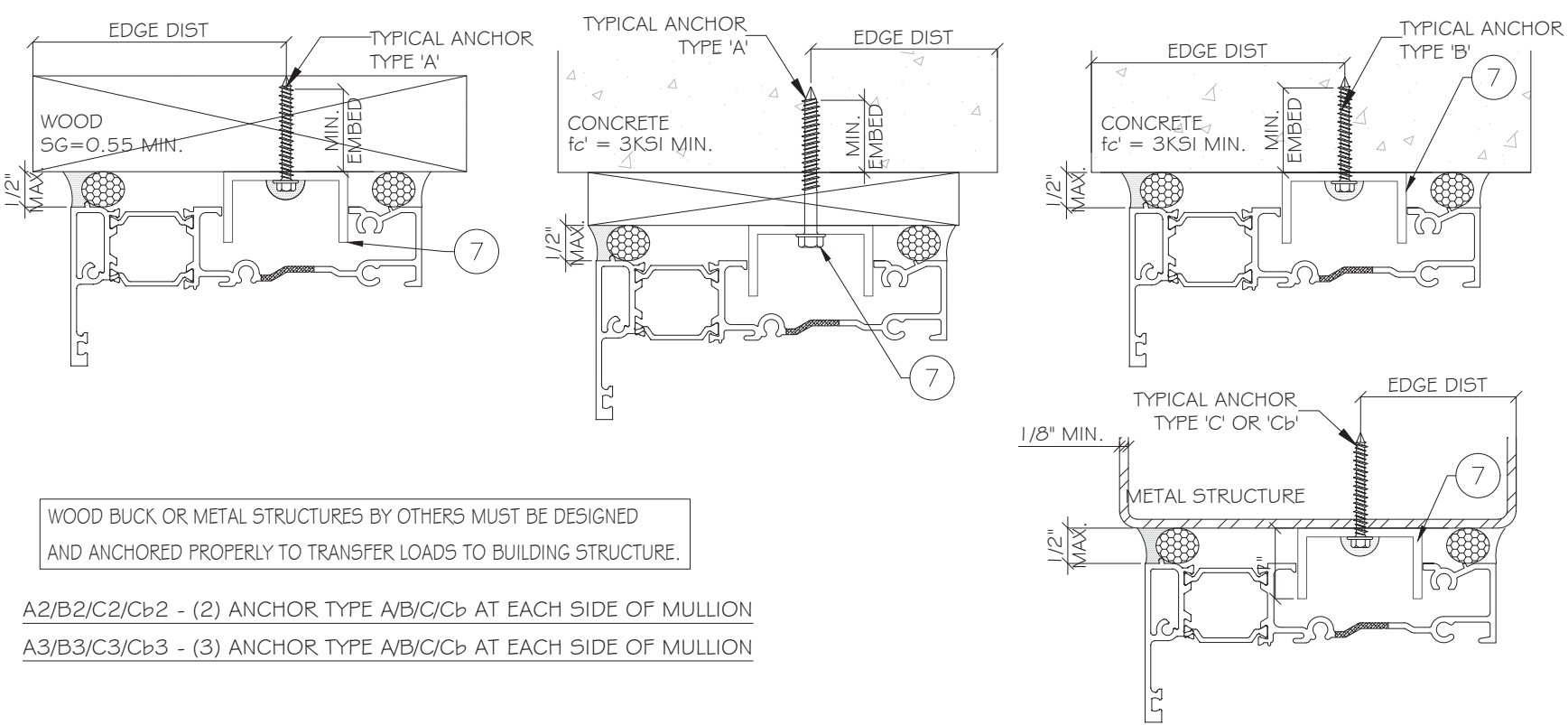
DATE	08.16.2023
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PROJECT	

D3
DRAWING NO. AD21-16
9 OF 19

YIPING WANG, P.E.
FLORIDA REGISTRATION
No. 55983
C.A.N. 28677

August 16th, 2023

CHART 3- HEAD ANCHOR CONDITION WITHOUT HEAD RECEPTOR							
ANCHOR TYPE		ANCHOR CAPACITIES (PSF)					
NOMINAL DIMS.		A2	A3	B2/C2	Cb2	Cb3	Cb4
HEIGHT (in)	WIDTH (in)	Ext. (+) Int. (-)	Ext. (+) Int. (-)	Ext. (+) Int. (-)	Ext. (+) Int. (-)	Ext. (+) Int. (-)	Ext. (+) Int. (-)
84	36	72.4	80.0	80.0	53.3	80.0	80.0
	42	62.0	80.0	80.0	45.7	68.6	80.0
	48	54.3	80.0	75.7	40.0	60.0	80.0
	54	48.3	72.4	67.3	35.6	53.3	71.1
	60	43.4	65.1	60.6	32.0	48.0	64.0
90	36	67.6	80.0	80.0	49.8	74.7	80.0
	42	57.9	80.0	80.0	42.7	64.0	80.0
	48	50.7	76.0	70.7	37.3	56.0	74.7
	54	45.0	67.6	62.8	33.2	49.8	66.4
	60	40.5	60.8	56.5	29.9	44.8	59.7
96	36	63.3	80.0	80.0	46.7	70.0	80.0
	42	54.3	80.0	75.7	40.0	60.0	80.0
	48	47.5	71.3	66.3	35.0	52.5	70.0
	54	42.2	63.3	58.9	31.1	46.7	62.2
	60	38.0	57.0	53.0	28.0	42.0	56.0
102	36	59.6	80.0	80.0	43.9	65.9	80.0
	42	51.1	76.6	71.3	37.6	56.5	75.3
	48	44.7	67.1	62.4	32.9	49.4	65.9
	54	39.7	59.6	55.4	29.3	43.9	58.6
	60	35.8	53.6	49.9	26.4	39.5	52.7
108	36	56.3	80.0	78.5	41.5	62.2	80.0
	42	48.3	72.4	67.3	35.6	53.3	71.1
	48	42.2	63.3	58.9	31.1	46.7	62.2
	54	37.5	56.3	52.3	27.7	41.5	55.3
	60	33.8	50.7	47.1	24.9	37.3	49.8
114	36	53.3	80.0	74.4	39.3	58.9	78.6
	42	45.7	68.6	63.8	33.7	50.5	67.4
	48	40.0	60.0	55.8	29.5	44.2	58.9
	54	35.6	53.3	49.6	26.2	39.3	52.4
	60	32.0	48.0	44.6	23.6	35.4	47.2
120	36	50.7	76.0	70.7	37.3	56.0	74.7
	42	43.4	65.1	60.6	32.0	48.0	64.0
	48	38.0	57.0	53.0	28.0	42.0	56.0
	54	33.8	50.7	47.1	24.9	37.3	49.8
	60	30.4	45.6	42.4	22.4	33.6	44.8
126	36	48.3	72.4	67.3	35.6	53.3	71.1
	42	41.4	62.0	57.7	30.5	45.7	61.0
	48	36.2	54.3	50.5	26.7	40.0	53.3
	54	32.2	48.3	44.9	23.7	35.6	47.4
	60	28.9	43.4	40.5	21.2	32.0	43.4
132	36	46.1	69.1	64.2	33.9	50.9	67.9
	42	39.5	59.2	55.1	29.1	43.6	58.2
	48	34.5	51.8	48.2	25.5	38.2	50.9
	54	30.7	46.1	42.8	22.6	33.9	45.3
	60	27.8	41.5	38.0	20.3	30.4	41.5
138	36	44.1	66.1	61.4	32.5	48.7	64.9
	42	37.8	56.6	52.7	27.8	41.7	55.7
	48	33.0	49.6	46.1	24.3	36.5	48.7
144	36	42.2	63.3	58.9	31.1	46.7	62.2
	42	36.2	54.3	50.5	26.7	40.0	53.3
	48	31.7	47.5	44.2	23.3	35.0	46.7



WOOD BUCK OR METAL STRUCTURES BY OTHERS MUST BE DESIGNED AND ANCHORED PROPERLY TO TRANSFER LOADS TO BUILDING STRUCTURE.

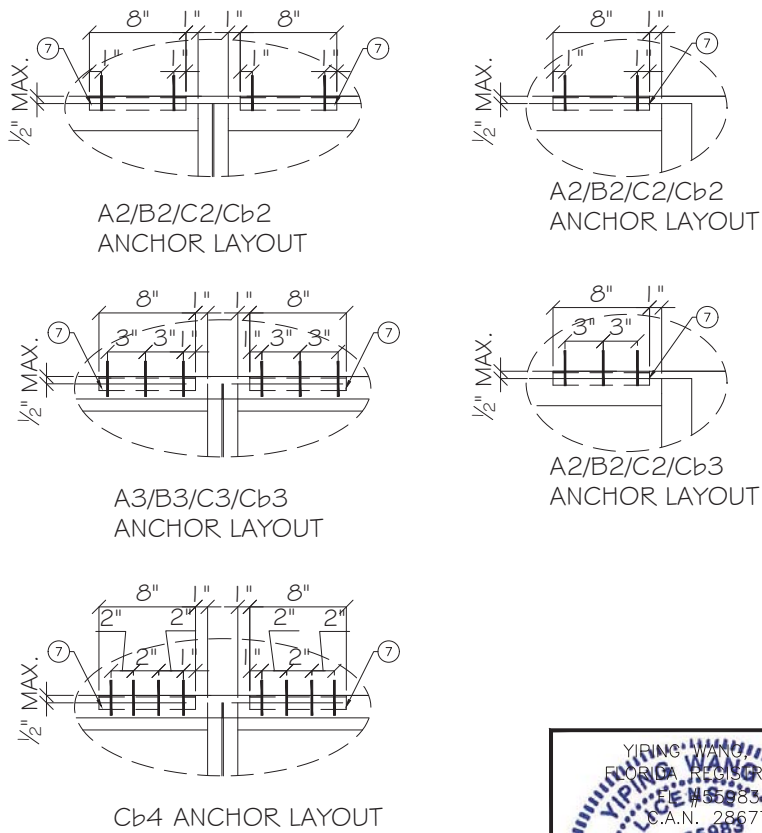
A2/B2/C2/Cb2 - (2) ANCHOR TYPE A/B/C/Cb AT EACH SIDE OF MULLION
A3/B3/C3/Cb3 - (3) ANCHOR TYPE A/B/C/Cb AT EACH SIDE OF MULLION

TYPICAL ANCHORS:
SEE ANCHOR LAYOUT FOR SPACING

- TYPE 'A' 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 (SG=0.55 MIN.)
- THRU WOOD BUCKS INTO CONCRETE (3KSI MIN.) 1-3/4" MIN. EMBED INTO CONC.
- TYPE 'B' 1/4" DIA. ULTRACON+ BY 'DEWALT' (F_u=164 KSI, F_y=148 KSI) DIRECTLY INTO CONCRETE (3KSI MIN.) 1-3/4" MIN. EMBED INTO CONC.
- TYPE 'C' 1/4" DRIL FLEX (GRADE 5 CRS) (F_u=120 KSI, F_y=92 KSI) INTO 1/8" THK. MIN. ALUM. STRUCTURE. (6063-T6 MIN.) OR STEEL : 1/8" MIN. (F_y = 36 KSI MIN.)
- TYPE 'Cb' 1/4" DRIL FLEX (GRADE 5 CRS) (F_u=120 KSI, F_y=92 KSI) INTO 1 GGA MIN. STEEL METAL STRUCTURE.

(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

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



REVISIONS

NO.	DATE	DESCRIPTION
R2	08.16.23	FBC 2023

MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PKWY. STE 301
MIRAMAR, FL 33027
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TT501 PRE-GLAZED & FIELD GALZED WINDOW WALL-N.I

US ALUMINUM INC.
950 SOLON ROAD
WAXAHACHINE, TEXAS 75165
TEL.: 972-937-9651

FL#39159

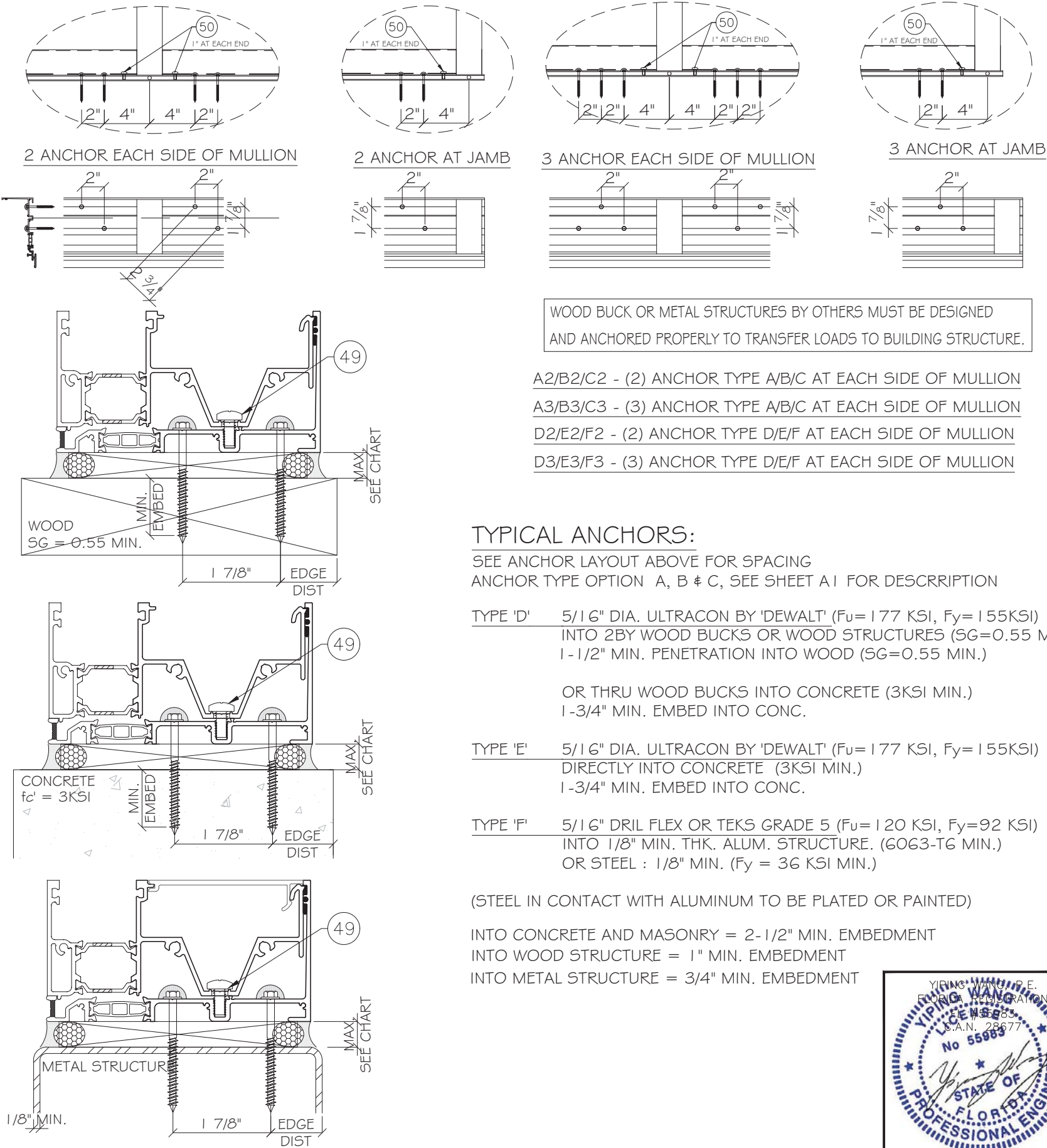
DATE	08.16.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	

A1

DRAWING NO.
AD21-16

10 OF 19

CHART 4- SILL ANCHOR CONDITION						
ANCHOR TYPE NOMINAL DIMS.		ANCHOR CAPACITIES (PSF)				
		A2/B2/C2	A3/B3/C3	D2/E2/F2	D2/E2/F2	D3/E3/F3
HEIGHT (in)	WIDTH (in)	1/4" MAX. SHIM		1/2" SHIM	3/4" MAX. SHIM	
		Ext. (+) Int. (-)	Ext. (+) Int. (-)	Ext. (+) Int. (-)	Ext. (+) Int. (-)	Ext. (+) Int. (-)
84	36	67.4	80.0	80.0	80.0	80.0
	42	57.8	80.0	80.0	69.9	80.0
	48	50.6	75.9	76.3	61.1	80.0
	54	45.0	67.4	67.8	54.3	80.0
	60	40.5	60.7	61.0	48.9	73.4
90	36	62.9	80.0	80.0	76.1	80.0
	42	53.9	80.0	80.0	65.2	80.0
	48	47.2	70.8	71.2	57.1	80.0
	54	42.0	62.9	63.3	50.7	76.1
	60	37.8	56.6	57.0	45.7	68.5
96	36	59.0	80.0	80.0	71.3	80.0
	42	50.6	75.9	76.3	61.1	80.0
	48	44.3	66.4	66.8	53.5	80.0
	54	39.3	59.0	59.3	47.6	71.3
	60	35.4	53.1	53.4	42.8	64.2
102	36	55.5	80.0	80.0	67.1	80.0
	42	47.6	71.4	71.8	57.5	80.0
	48	41.6	62.5	62.8	50.4	75.5
	54	37.0	55.5	55.8	44.8	67.1
	60	33.3	50.0	50.3	40.3	60.4
108	36	52.4	78.7	79.1	63.4	80.0
	42	45.0	67.4	67.8	54.3	80.0
	48	39.3	59.0	59.3	47.6	71.3
	54	35.0	52.4	52.7	42.3	63.4
	60	31.5	47.2	47.5	38.0	57.1
114	36	49.7	74.5	74.9	60.1	80.0
	42	42.6	63.9	64.2	51.5	77.2
	48	37.3	55.9	56.2	45.1	67.6
	54	33.1	49.7	50.0	40.0	60.1
	60	29.8	44.7	45.0	36.0	54.1
120	36	47.2	70.8	71.2	57.1	80.0
	42	40.5	60.7	61.0	48.9	73.4
	48	35.4	53.1	53.4	42.8	64.2
	54	31.5	47.2	47.5	38.0	57.1
	60	28.3	42.5	42.7	34.2	51.4
126	36	45.0	67.4	67.8	54.3	80.0
	42	38.5	57.8	58.1	46.6	69.9
	48	33.7	50.6	50.9	40.8	61.1
	54	30.0	45.0	45.2	36.2	54.3
132	36	42.9	64.4	64.7	51.9	77.8
	42	36.8	55.2	55.5	44.5	66.7
	48	32.2	48.3	48.5	38.9	58.4
	54	28.6	42.9	43.2	34.6	51.9
138	36	41.0	61.6	61.9	49.6	74.4
	42	35.2	52.8	53.1	42.5	63.8
	48	30.8	46.2	46.4	37.2	55.8
144	36	39.3	59.0	59.3	47.6	71.3
	42	33.7	50.6	50.9	40.8	61.1
	48	29.5	44.3	44.5	35.7	53.5



REVISONS	DESCRIPTION
NO.	DATE
F2	08.16.23
FBC	2023

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950 SOLON ROAD
WAXAHACHINE, TEXAS 75165
TEL.: 972-937-9651

FL#39159

DATE	08.16.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	

A2

DRAWING NO.
AD21-16

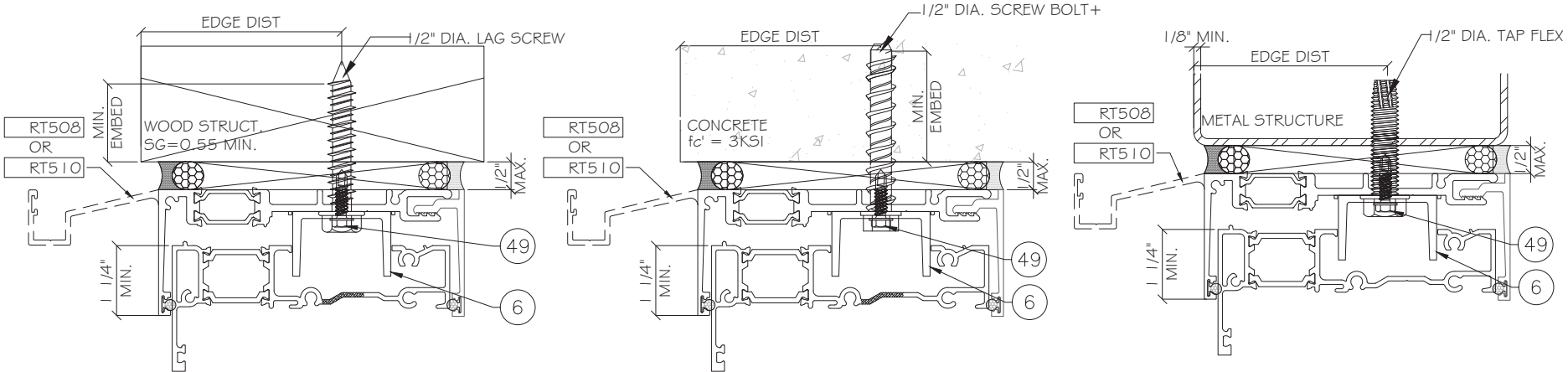
11 OF 19

YIPING WANG, P.E.
FLORIDA REGISTRATION
E.C. # 28677
C.A.N. 28677
No 55983
STATE OF FLORIDA
PROFESSIONAL ENGINEER

August 16th, 2023

ANCHOR CONDITION 1 - SYSTEM ANCHORED TO SUBSTRATE WITH 1/2" DIAMETER FASTENER AT MULLION CENTERLINE

CHART 5- HEAD ANCHOR WITH HEAD RECEPTOR CONDITION 1					
ANCHOR TYPE NOMINAL DIMS.		ANCHOR CAPACITIES (PSF)			
		1/2" LAG BOLT INTO WOOD	1/2" SCREW BOLT+ INTO CONC.	1/2" TAP FLEX INTO 1/8" ALUM.	1/2" TAP FLEX INTO 1/8" STEEL
HEIGHT (in)	WIDTH (in)	1/2" MAX. SHIM Ext. (+) Int. (-)	1/2" MAX. SHIM Ext. (+) Int. (-)	1/2" MAX. SHIM Ext. (+) Int. (-)	1/2" MAX. SHIM Ext. (+) Int. (-)
84	36.0	27.3	42.9	25.9	55.7
	42.0	23.4	36.7	22.2	47.8
	48.0	-	32.1	19.4	41.8
	54.0	-	28.6	-	37.1
	60.0	-	25.7	-	33.4
90	36.0	25.5	40.0	24.2	52.0
	42.0	21.9	34.3	20.7	44.6
	48.0	-	30.0	-	39.0
	54.0	-	26.7	-	34.7
	60.0	-	24.0	-	31.2
96	36.0	23.9	37.5	22.7	48.8
	42.0	20.5	32.1	19.4	41.8
	48.0	-	28.1	-	36.6
	54.0	-	25.0	-	32.5
	60.0	-	22.5	-	29.3
102	36.0	22.5	35.3	21.3	45.9
	42.0	19.3	30.3	-	39.3
	48.0	-	26.5	-	34.4
	54.0	-	23.5	-	30.6
	60.0	-	21.2	-	27.5
108	36.0	21.3	33.3	20.1	43.3
	42.0	-	28.6	-	37.1
	48.0	-	25.0	-	32.5
	54.0	-	22.2	-	28.9
	60.0	-	20.0	-	26.0
114	36.0	-	31.6	-	41.1
	42.0	-	27.1	-	35.2
	48.0	-	23.7	-	30.8
	54.0	-	21.1	-	27.4
	60.0	-	-	-	24.6
120	36.0	-	30.0	-	39.0
	42.0	-	25.7	-	33.4
	48.0	-	22.5	-	29.3
	54.0	-	20.0	-	26.0
	60.0	-	-	-	23.4
126	36.0	-	28.6	-	37.1
	42.0	-	24.5	-	31.8
	48.0	-	21.4	-	27.9
	54.0	-	-	-	24.8
	60.0	-	-	-	22.4
132	36.0	-	27.3	-	35.5
	42.0	-	23.4	-	30.4
	48.0	-	20.5	-	26.6
	54.0	-	-	-	23.6
	60.0	-	-	-	20.9
138	36.0	-	26.1	-	33.9
	42.0	-	22.4	-	29.1
	48.0	-	-	-	25.4
	54.0	-	-	-	22.7
	60.0	-	-	-	20.0
144	36.0	-	25.0	-	32.5
	42.0	-	21.4	-	27.9
	48.0	-	-	-	24.4
	54.0	-	-	-	21.7
	60.0	-	-	-	19.0



HEAD RECEPTOR OPTION

(HEAD ASSEMBLY WITH RT510 & RT508 OPTIONS)

WOOD BUCK OR METAL STRUCTURES BY OTHERS MUST BE DESIGNED AND ANCHORED PROPERLY TO TRANSFER LOADS TO BUILDING STRUCTURE.

HEAD ANCHOR

ANCHOR TYPES:

1/2" LAG SCREW (Fu=60 KSI, Fy=45 KSI)

WITH 2" MIN. EMBED INTO WOOD BUCKS OR WOOD STRUCTURE (SG=0.55 MIN.)

1/2" DIA. SCREW BOLT+ BY 'DEWALT' (Fu=115 KSI, Fy=92 KSI)

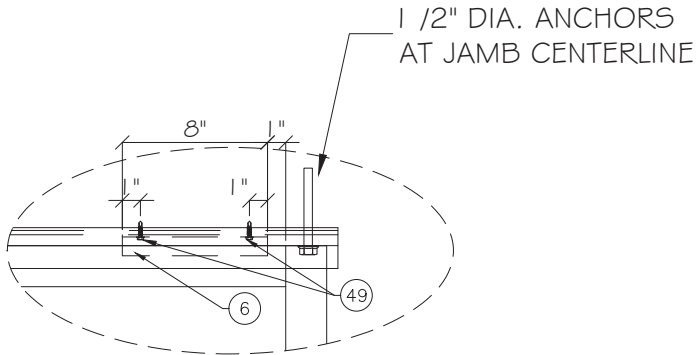
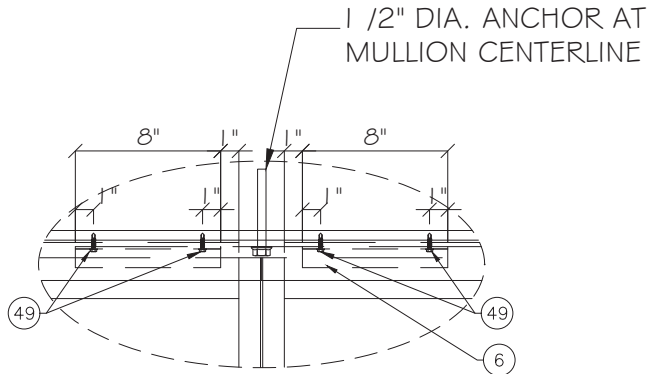
DIRECTLY INTO CONCRETE (3KSI MIN.) WITH 1 3/4" EMBED INTO CONC.

1/2" DIA. TAP-FLEX BY 'ELCO' (Fu=120 KSI, Fy=92 KSI)

INTO 1/8" MIN. THK. ALUM. STRUCTURE (6063-T6 MIN.) OR STEEL : 1/8" MIN. (Fy = 36 KSI MIN.)

(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

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



REVISIONS	NO.	DATE	DESCRIPTION
	R2	08.16.23	FBC 2023

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TT501 PRE-GLAZED & FIELD GLAZED WINDOW WALL-N.I

US ALUMINUM INC.
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WAXAHACHIE, TEXAS 75165
TEL.: 972-937-9651

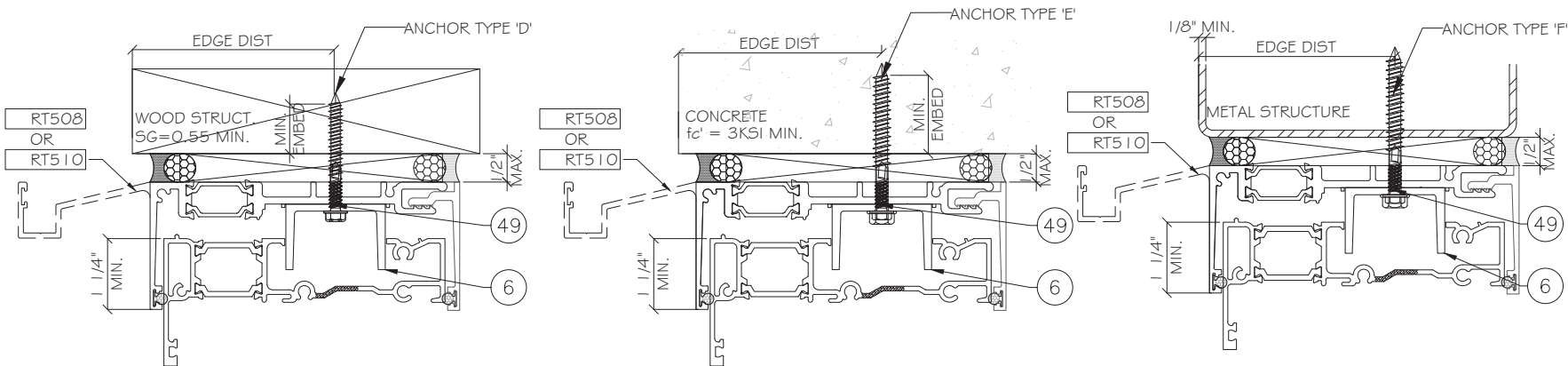
FL#39159
DATE 08.16.2023
SCALE AS NOTED
DRAWN James
PROJECT
A3
DRAWING NO. AD21-16
12 OF 19

ANCHOR CONDITION 2- SYSTEM ANCHORED TO SUBSTRATE WITH 1/2" DIAMETER FASTENER AT MULLION/JAMB CENTERLINE

CHART G- HEAD ANCHOR WITH HEAD RECEPTOR CONDITION 2

ANCHOR TYPES		ANCHOR CAPACITIES (PSF)							
		1/2" LAG BOLT INTO WOOD +		1/2" SCREW BOLT+ INTO CONC. +		1/2" TAP FLEX INTO 1/8" ALUM. +		1/2" TAP FLEX INTO 1/8" STL	
NOMINAL DIMS.		D1	D2	E1	E2	F1	F2	F1	
		1/2" MAX SHIM		1/2" MAX SHIM		1/2" MAX SHIM		1/2" MAX SHIM	
HEIGHT (in)	WIDTH (in)	Ext. (+) Int. (-)	Ext. (+) Int. (-)	Ext. (+) Int. (-)	Ext. (+) Int. (-)	Ext. (+) Int. (-)	Ext. (+) Int. (-)	Ext. (+) Int. (-)	Ext. (+) Int. (-)
84	36.0	79.7	80.0	80.0	80.0	68.6	80.0	80.0	80.0
	42.0	68.3	80.0	79.1	80.0	58.8	80.0	80.0	80.0
	48.0	59.8	80.0	69.2	80.0	51.4	80.0	80.0	80.0
	54.0	53.1	80.0	61.5	73.0	45.7	74.2	74.7	74.7
	60.0	47.8	79.3	55.4	65.7	41.1	66.7	67.3	67.3
90	36.0	74.4	80.0	80.0	80.0	64.0	80.0	80.0	80.0
	42.0	63.8	80.0	73.8	80.0	54.9	80.0	80.0	80.0
	48.0	55.8	80.0	64.6	76.7	48.0	77.9	78.5	78.5
	54.0	49.6	80.0	57.4	68.1	42.7	69.2	69.7	69.7
	60.0	44.6	74.0	51.7	61.3	38.4	62.3	62.8	62.8
96	36.0	69.8	80.0	80.0	80.0	60.0	80.0	80.0	80.0
	42.0	59.8	80.0	69.2	80.0	51.4	80.0	80.0	80.0
	48.0	52.3	80.0	60.6	71.9	45.0	73.0	73.6	73.6
	54.0	46.5	77.1	53.8	63.9	40.0	64.9	65.4	65.4
	60.0	41.9	69.4	48.5	57.5	36.0	58.4	58.9	58.9
102	36.0	65.6	80.0	76.0	80.0	56.5	80.0	80.0	80.0
	42.0	56.3	80.0	65.1	77.3	48.4	78.5	79.1	79.1
	48.0	49.2	80.0	57.0	67.6	42.4	68.7	69.2	69.2
	54.0	43.8	72.5	50.7	60.1	37.6	61.1	61.5	61.5
	60.0	39.4	65.3	45.6	54.1	33.9	55.0	55.4	55.4
108	36.0	62.0	80.0	71.8	80.0	53.3	80.0	80.0	80.0
	42.0	53.1	80.0	61.5	73.0	45.7	74.2	74.7	74.7
	48.0	46.5	77.1	53.8	63.9	40.0	64.9	65.4	65.4
	54.0	41.3	68.5	47.9	56.8	35.6	57.7	58.1	58.1
	60.0	37.2	61.6	43.1	51.1	32.0	51.9	52.3	52.3
114	36.0	58.7	80.0	68.0	80.0	50.5	80.0	80.0	80.0
	42.0	50.3	80.0	58.3	69.2	43.3	70.3	70.8	70.8
	48.0	44.1	73.0	51.0	60.5	37.9	61.5	61.9	61.9
	54.0	39.2	64.9	45.3	53.8	33.7	54.6	55.1	55.1
	60.0	35.2	58.4	40.8	48.4	30.3	49.2	49.6	49.6
120	36.0	55.8	80.0	64.6	76.7	48.0	77.9	78.5	78.5
	42.0	47.8	79.3	55.4	65.7	41.1	66.7	67.3	67.3
	48.0	41.9	69.4	48.5	57.5	36.0	58.4	58.9	58.9
	54.0	37.2	61.6	43.1	51.1	32.0	51.9	52.3	52.3
	60.0	33.5	55.5	38.8	46.0	28.8	46.7	47.1	47.1
126	36.0	53.1	80.0	61.5	73.0	45.7	74.2	74.7	74.7
	42.0	45.6	75.5	52.7	62.6	39.2	63.6	64.1	64.1
	48.0	39.9	66.0	46.1	54.8	34.3	55.6	56.0	56.0
	54.0	35.4	58.7	41.0	48.7	30.5	49.4	49.8	49.8
	60.0	31.9	51.9	37.5	43.7	27.6	45.4	45.8	45.8
132	36.0	50.7	80.0	58.7	69.7	43.6	70.8	71.3	71.3
	42.0	43.5	72.1	50.3	59.7	37.4	60.7	61.1	61.1
	48.0	38.0	63.0	44.0	52.3	32.7	53.1	53.5	53.5
	54.0	33.8	56.0	39.2	46.5	29.1	47.2	47.6	47.6
	60.0	30.7	50.7	36.4	42.4	26.9	43.9	44.3	44.3
138	36.0	48.5	80.0	56.2	66.7	41.7	67.7	68.2	68.2
	42.0	41.6	68.9	48.1	57.1	35.8	58.0	58.5	58.5
	48.0	36.4	60.3	42.1	50.0	31.3	50.8	51.2	51.2
	54.0	32.9	55.4	38.6	46.1	28.8	46.7	47.1	47.1
	60.0	29.9	51.9	36.4	43.7	26.9	43.9	44.3	44.3
144	36.0	46.5	77.1	53.8	63.9	40.0	64.9	65.4	65.4
	42.0	39.9	66.0	46.1	54.8	34.3	55.6	56.0	56.0
	48.0	34.9	57.8	40.4	47.9	30.0	48.7	49.0	49.0
	54.0	31.4	53.4	37.9	44.4	27.9	45.9	46.3	46.3
	60.0	28.9	50.9	35.9	42.4	26.4	43.4	43.8	43.8

AND ADDITIONAL FASTENERS ON EACH SIDE OF MULLION

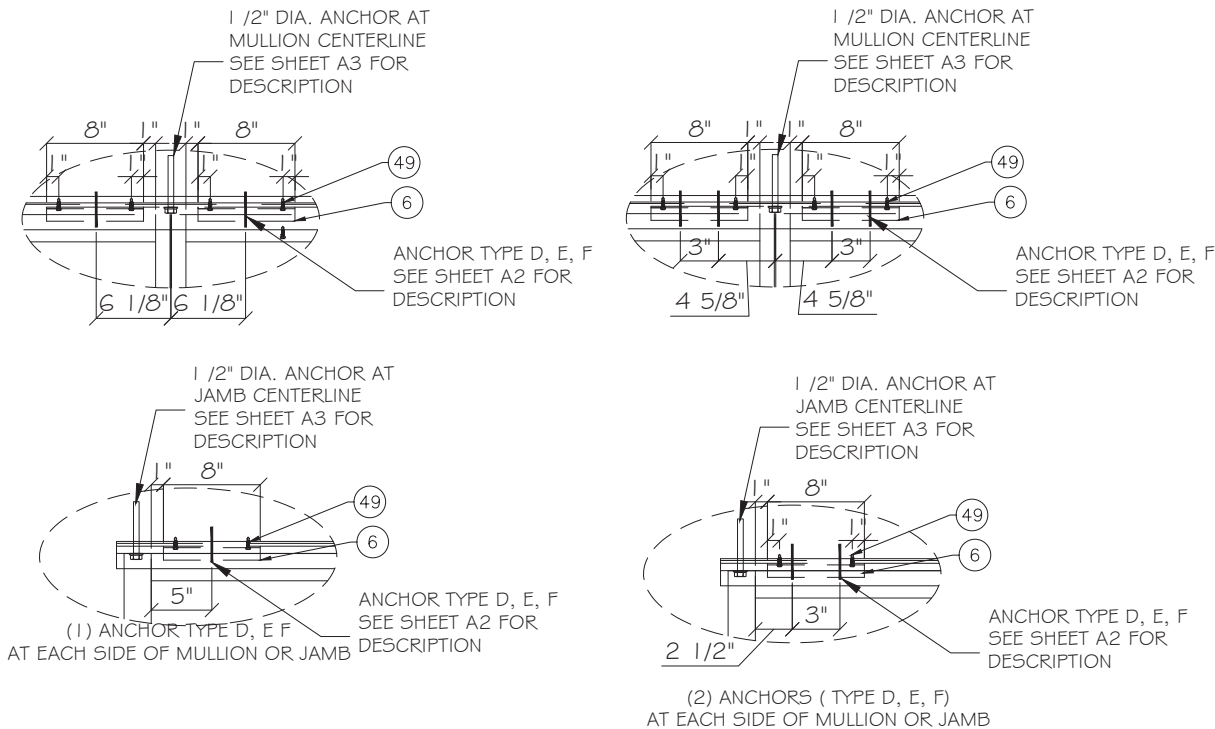


HEAD RECEPTOR OPTION

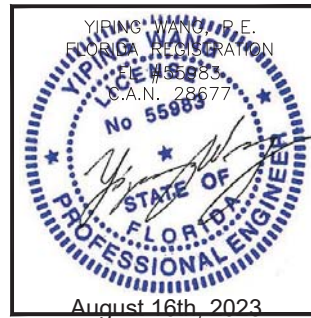
(HEAD ASSEMBLY WITH RT510 & RT508 OPTIONS)

1/2" DIA. ANCHORS @ MULLION /JAMB CENTER NOT SHOWN IN THIS DETAIL
1/2" DIA. ANCHORS @ MULLION SEE SHEET A3 FOR DESCRIPTION
ANCHOR TYPE D,E & F FOR ANCHOR CHANNEL, SEE SHEET A2 FOR DESCRIPTION

WOOD BUCK OR METAL STRUCTURES BY OTHERS MUST BE DESIGNED
AND ANCHORED PROPERLY TO TRANSFER LOADS TO BUILDING STRUCTURE.



- D1-(1) ANCHOR TYPE D AT EACH SIDE OF MULLION
D2-(2) ANCHOR TYPE D AT EACH SIDE OF MULLION
E1-(1) ANCHOR TYPE E AT EACH SIDE OF MULLION
E2-(2) ANCHOR TYPE E AT EACH SIDE OF MULLION
F1-(1) ANCHOR TYPE F AT EACH SIDE OF MULLION
F2-(2) ANCHOR TYPE F AT EACH SIDE OF MULLION



August 16th, 2023

REVISIONS		NO.	DATE	DESCRIPTION
		R2	08.16.23	IBC 2023

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TEL.: 972-937-9651

TT501 PRE-GLAZED & FIELD GALZED WINDOW WALL-N.I

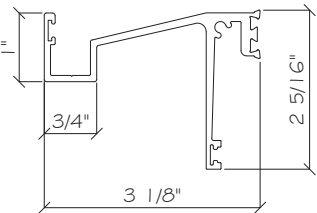
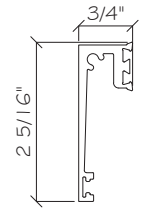
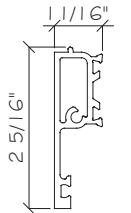
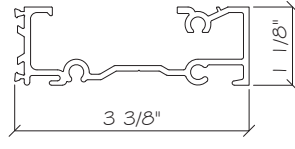
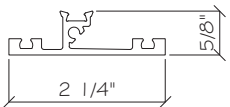
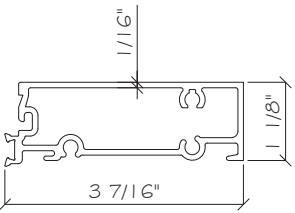
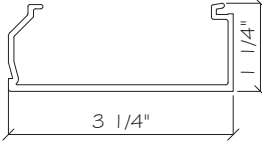
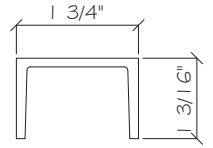
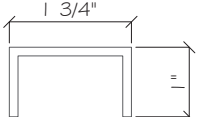
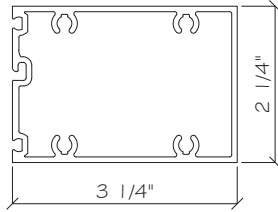
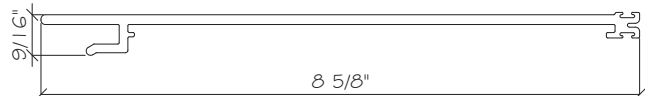
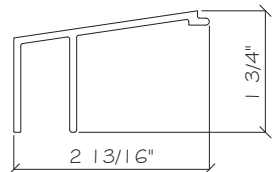
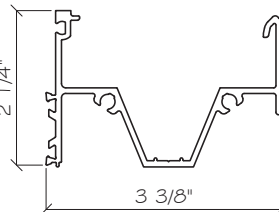
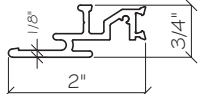
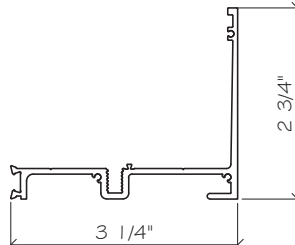
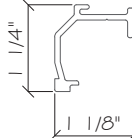
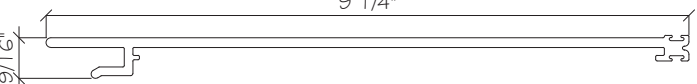
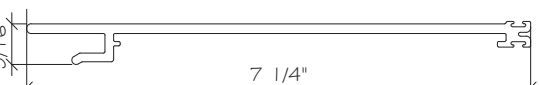
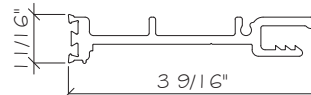
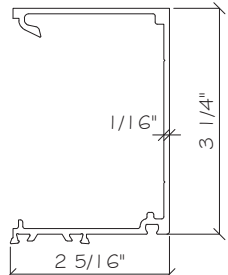
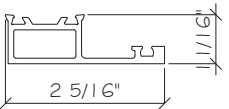
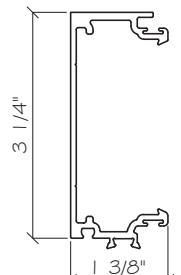
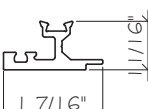
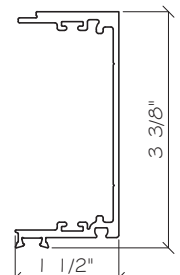
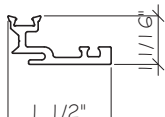
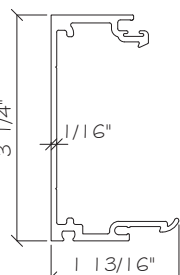
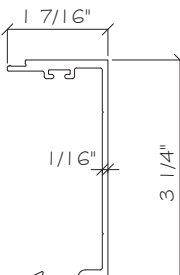
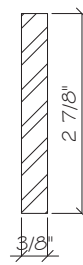
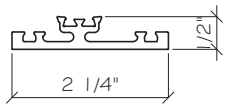
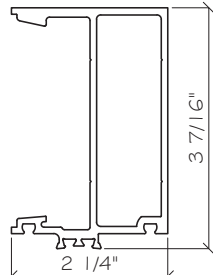
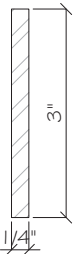
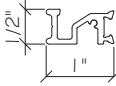
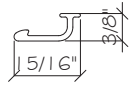
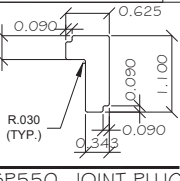
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DATE	08.16.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	

A4

DRAWING NO.
AD21-16

13 OF 19

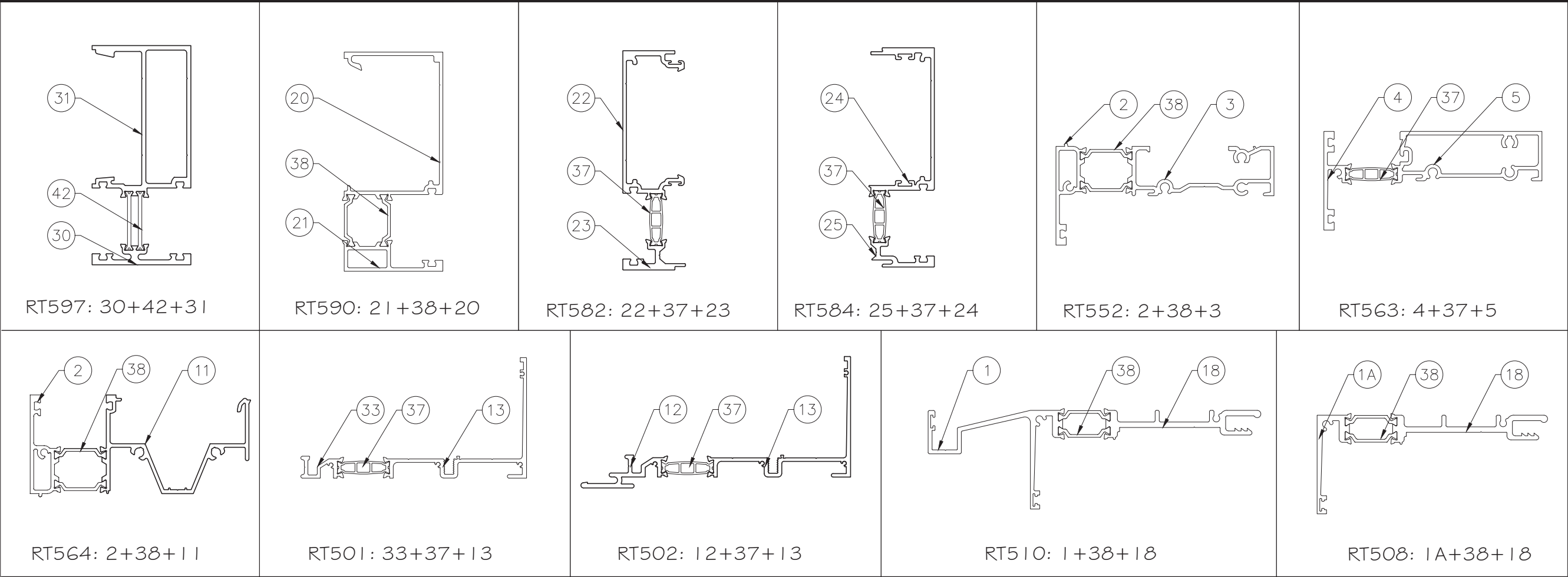
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 ⑦ RW52000 RECEPTOR CHANNEL 6063-T5	 ⑧ RW556 MULLION 6063-T6	 ⑨A RW101 SLAB EDGE COVER 6063-T5		 ⑩ RW511 SLAB EDGE TOP TRIM 6063-T5	 ⑪ RW566 SILL 6063-T6	 ⑫ RW504 SLAB EDGE FLASHING FRONT 6063-T6			
 ⑬ RW503 FLASHING 6063-T6	 ⑭ RW557 PREGLAZED GLAZING BEAD 6063-T6	 ⑨B RW102 SLAB EDGE COVER 6063-T5		 ⑨ RW100 SLAB EDGE COVER 6063-T5	 ⑬ RW559 COVER FILLER 6063-T5	 ⑬B RW510 RECEPTOR REAR 6063-T6			
 ⑰ RW518 SETTING CHAIR 6063-T6	 ⑳ RW573 JAMB 6063-T6	 ㉑ RW572 JAMB FRONT 6063-T6	 ㉒ RW583 MALE MULLION HALF 6063-T6	 ㉓ RW585 MALE MULLION FRONT 6063-T6	 ㉔ RW586 FEMALE MULLION HALF 6063-T6	 ㉕ RW580 FEMALE MULLION FRONT 6063-T6	 ㉖ RW581 PRE-GLAZED REINFORCING CLIP 6063-T6		
 ㉗ RW554 MALE MULLION HALF 6063-T6	 ㉘ RW555 FEMALE MULLION HALF 6063-T6	 ㉙ SS556 STEEL	 ㉚ RW592 FIELD GLAZED FRONT 6063-T6	 ㉛ RW597 FIELD GLAZED MULLION 6063-T6	 ㉜ SS558 STEEL	 ㉝ RW502 FLASHING FRONT 6063-T6	 ㉞ NP506 INTERIOR WEDGE GASKETS	 ㉞A NP556 INTERIOR WEDGE GASKETS	 ㉟ RW582 CLIP 6063-T6
 ㉟ TB031 31mm HOLLOW STRUT POLYAMIDE	 ㊱ TB030 30mm SINGLE STRUT POLYAMIDE	 ㊲ SP451 SSG SPACER SILICONE 70±DUROMETER	 ㊳ WH544 BULB GASKETS FOAM - TITE	 ㊴ WH546 SSG Front Gasket SILICONE 70±1 DUROMETER	 ㊵ TB034 SINGLE STRUT POLYAMIDE	 ㊶ WH542 BULB GASKETS FOAM - TITE	 ㊷ SB508 SILL SETTING BLOCK EPDM 85±5 DUROMETER	 ㊸ SP550 JOINT PLUG	

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FLORIDA REGISTRATION
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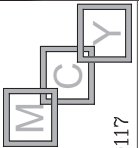
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

August 16th, 2023

TT501 PRE-GLAZED & FIELD GALZED WINDOW WALL-N.I		MCY ENGINEERING, INC. GLAZING CONSULTANTS 12781 MIRAMAR PKWY. STE 301 MIRAMAR, FL 33027 P: 305.271.0117 www.MCYEngineering.com MCY@MCYENGINEERING.COM	
US ALUMINUM INC. 950 SOLON ROAD WAXAHACHINE, TEXAS 75165 TEL.: 972-937-9651		MCY ENGINEERING, INC. GLAZING CONSULTANTS 12781 MIRAMAR PKWY. STE 301 MIRAMAR, FL 33027 P: 305.271.0117 www.MCYEngineering.com MCY@MCYENGINEERING.COM	
FL#39159			
DATE	08.16.2023	MCY ENGINEERING, INC. GLAZING CONSULTANTS 12781 MIRAMAR PKWY. STE 301 MIRAMAR, FL 33027 P: 305.271.0117 www.MCYEngineering.com MCY@MCYENGINEERING.COM	
SCALE	AS NOTED		
DRAWN	James		
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PARTS			
DRAWING NO. AD21-16			
14 OF 19			



REVISONS		DESCRIPTION	
NO.	DATE	DESCRIPTION	
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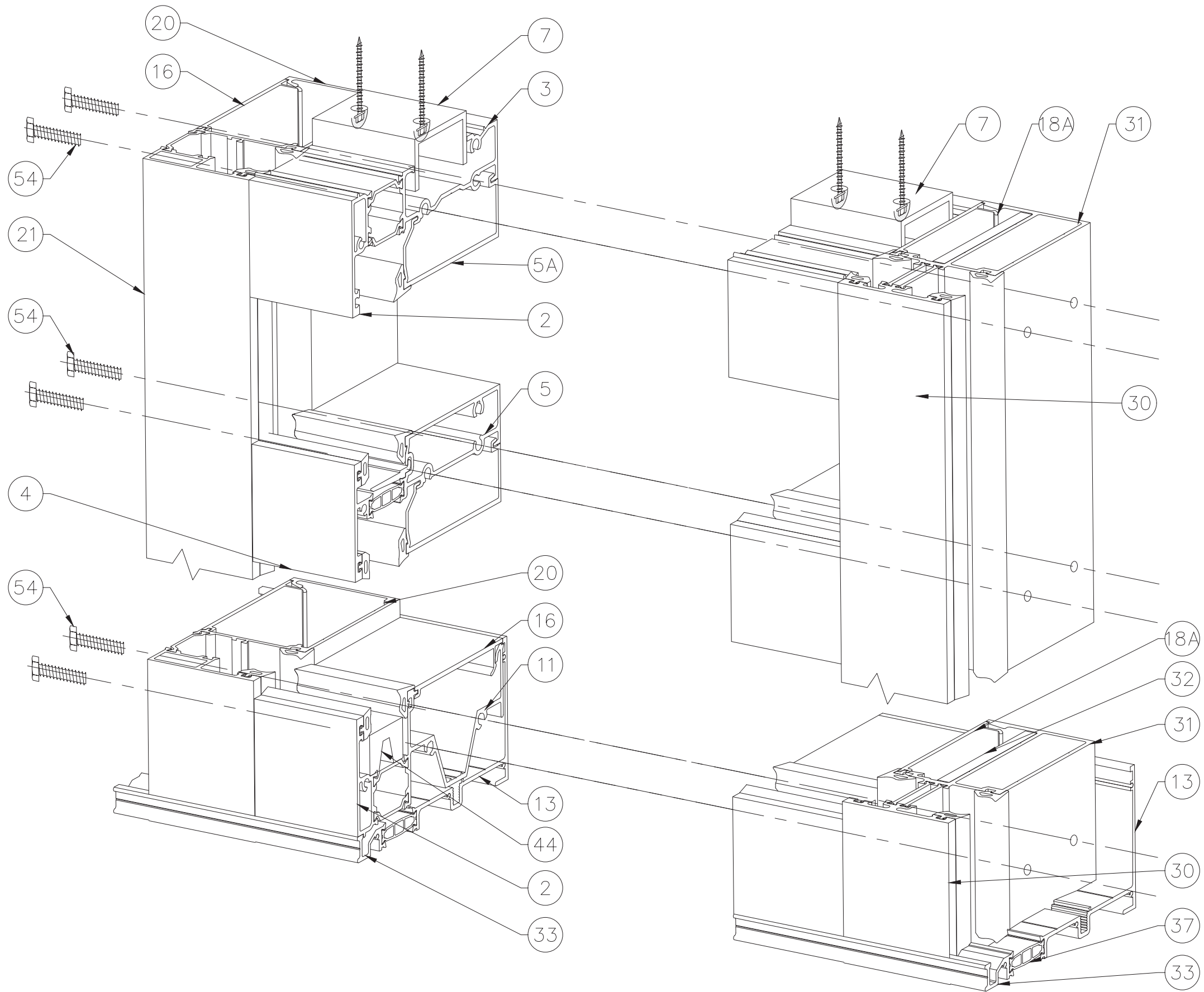
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PARTS ASSEMBLY	
DRAWING NO. AD21-16	
15 OF 19	

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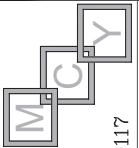
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ASSEMBLY DRAWING FOR FIELD GLAZED



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R2	08.16.23 FBC 2023

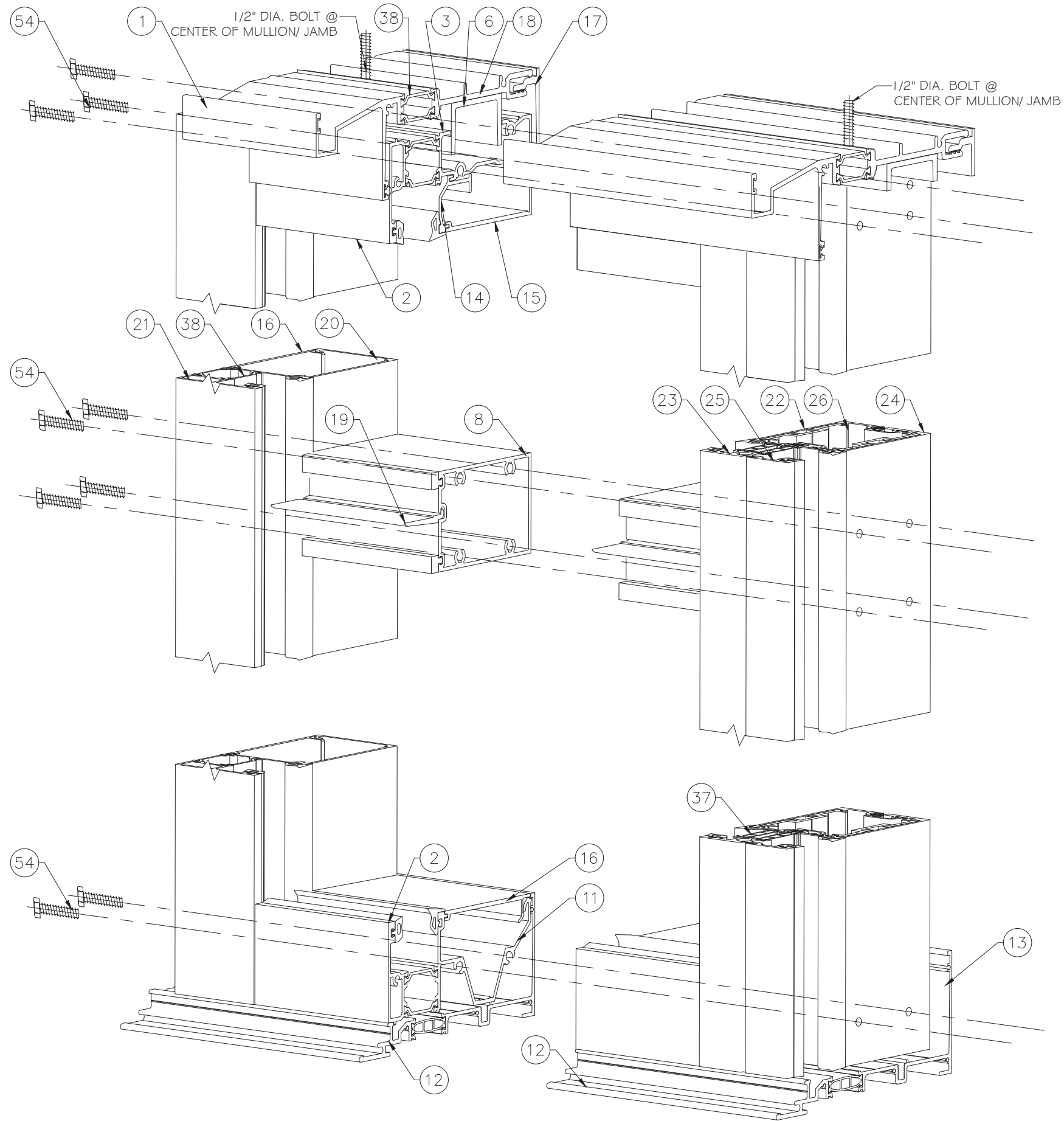


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DRAWN	James
PROJECT	
ASSEMBLY1	
DRAWING NO.	AD21-16
16 OF 19	



ASSEMBLY DRAWING FOR PRE-GLAZED



August 16th, 2023

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PROJECT	

ASSEMBLY2

DRAWING NO.
AD21-16

17 OF 19

BILL OF MATERIALS			
ITEM	PART	DESCRIPTION	MATERIAL
1	RW512	Slab Edge Receptor	ALUM. 6063-T6
1A	RW532	Slab Edge Receptor	ALUM. 6063-T6
2	RW551	IG Front	ALUM. 6063-T6
3	RW542	IG Head	ALUM. 6063-T6
4	RW560	Horizontal Front	ALUM. 6063-T6
5	RW562	IG Horizontal Composite	ALUM. 6063-T6
5A	RW553	IG Stop	ALUM. 6063-T6
6	RW519	Receptor Channel	ALUM. 6063-T6
7	RW52000	Receptor Channel	ALUM. 6063-T5
8	RW556	Mullion	ALUM. 6063-T6
9	RW100	Fascia Panel / Slab Cover	ALUM. 6063-T5
9A	RW101	Fascia Panel / Slab Cover, For 7" Slab	ALUM. 6063-T5
9B	RW102	Fascia Panel / Slab Cover, For 8" Slab	ALUM. 6063-T5
10	RW511	Fascia Cap / Slab Edge Top Trim	ALUM. 6063-T5
11	RW566	SILL	ALUM. 6063-T6
12	RW504	Slab Edge Flashing Front	ALUM. 6063-T6
13	RW503	Flashing	ALUM. 6063-T6
14	RW557	Preglazed Glazing Bead	ALUM. 6063-T6
15	RW558	Preglazed Horizontal Cover Filler	ALUM. 6063-T6
16	RW559	Cover Filler	ALUM. 6063-T5
17	RW513	Head Can Interior Cover	ALUM. 6063-T6
18	RW510	Receptor Rear	ALUM. 6063-T6
18A	RW501	Field Glazed Mullion Filler	ALUM. 6063-T6
19	RW518	Setting Chair	ALUM. 6063-T6
20	RW573	Jamb Half	ALUM. 6063-T6
21	RW572	Jamb Front	ALUM. 6063-T6
22	RW583	Male Mullion Half	ALUM. 6063-T6
23	RW585	Male Mullion Front	ALUM. 6063-T6
24	RW586	Female Mullion Half	ALUM. 6063-T6
25	RW580	Female Mullion Front	ALUM. 6063-T6
26	RW581	Preglazed Reinforcing Clip	ALUM. 6063-T6
27	RW554	Male Mullion Half	ALUM. 6063-T6
28	RW555	Female Mullion Half	ALUM. 6063-T6
29	SS556	3/8" X 2 7/8" STEEL BAR	STEEL A36
30	RW592	Field Glazed Front	ALUM. 6063-T6
31	RW597	Field Glazed Mullion	ALUM. 6063-T6
32	SS558	1/4" X 3 Steel Bar	STEEL A36
33	RW502	Flashing Front	ALUM. 6063-T6
34	NP506	Wedge Gasket	EPDM 65+/- 5 Durometer
34A	NP556	Interior Wedge Gasket	EPDM 70+/- 5 Durometer
35	NP525	Gasket	EPDM 60+/- 5 Durometer
36	RW582	Preglazed Mullion Clip	ALUM. 6063-T6
37	TB031	31MM Hollow Strut	Polyamide
38	TB030	30MM Single Strut	Polyamide
39	SP451	SSG Spacer	Silicone 70 +/- 5 Durometer
40	WH544	Bulb Gasket	Foam-Tite
41	WH546	SSG Front Gasket	Silicone 70 +/- 1 Durometer
42	TB034	34MM Single Strut	Polyamide
43	WH542	Bulb Gasket	Foam-Tite
44	SB508	Sill Setting Block	EPDM 85+/- 5 Durometer



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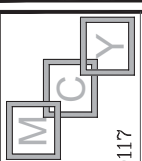
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DRAWING NO.
AD21-16

18 OF 19

BILL OF MATERIALS			
ITEM	PART	DESCRIPTION	MATERIAL
45	-	Backer Rod & Spectrum I Silicone Sealant or Equivalent	-
46	SB502	Horizontal Setting Block	Silicone 85 +/-5 Durometer
46A	SB506	Horizontal Setting Block	EPDM 85 +/- 5 Durometer
47	-	Tremco Proglazed SSG or Dowsil 995	Silicone
48	EC550	PVC End Dam Sill	PVC
49	MS17842	#12-14 x 7/8 HWH	STEEL
50	ST22000	1/4"-20 x 1/2" SSMS	STEEL
51	MF20642	1/4"-20 x 3/4" HH Cap Bolt	STEEL
52	MF26642	1/4"-20 Hex Nut	STEEL
53	MF25200	1/4" Lock Washer	STEEL
54	MS19042	#14 x 1" HH B Point	STEEL
55	WD550	Water Diverter	Vinyl
56	ST26442	#10 x 2" SS FHSTS	STEEL
57	MS280	#12-14 X 1/2" PFH UC @ 2" FROM END & 12" O.C.	SS STEEL
58	SP550	Joint Plug	EPDM
59	-	Spectrum I Silicone Sealant or Equivalent	Silicone

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19 OF 19

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FLORIDA REGISTRATION

FL # 55985

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