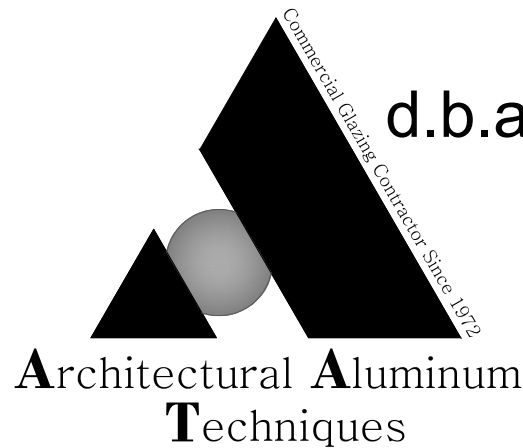




CT Windows

d.b.a Architectural Aluminum Techniques

T850A & T850B CURTAIN WALL SYSTEM LARGE & SMALL MISSILE IMPACT LEVEL D OR E IMPACT



CURTAIN WALL SYSTEM RATED FOR LARGE AND SMALL MISSILE IMPACT.

SERIES T850A & T850B CURTAIN WALL

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH REQUIREMENTS OF THE 9TH EDITION (2026) FLORIDA BUILDING CODE SECTION, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ) PROVISIONS.

LARGE MISSILE IMPACT CURTAIN WALL SYSTEM TO BE USED AT ELEVATIONS BELOW 30'-0" OF GRADE LEVEL. FOR ELEVATIONS 30'-0" ABOVE GRADE LEVEL, SMALL MISSILE IMPACT SYSTEM TO BE USED.

THIS SYSTEM IS APPROVED FOR AIR AND WIND INFILTRATION.

ANCHORS SHALL BE AS LISTED. SPACED AS SHOWN ON DETAILS. EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHOR OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL. ALL ANCHORS AND CONNECTION BOLTS MUST HAVE SPRING WASHERS.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 9TH EDITION (2026) FLORIDA BUILDING CODE SECTION AS APPLICABLE.

METAL STRUCTURES NOT BY CT WINDOWS d.b.a. ARCHITECTURAL ALUMINUM TECHNIQUES, TO BE DESIGNED TO SUPPORT THE LOADS IMPOSED BY THIS GLAZING SYSTEM AND TO TRANSFER SUCH LOADS TO THE BUILDING MAIN STRUCTURE.

ALUMINUM IN CONTACT WITH CONCRETE OR GROUT MATERIALS SHALL BE COATED WITH ALKALI RESISTANT COATING SUCH AS HEAVY BODIED BITUMINOUS PAINT.

ULTIMATE WIND LOADS OBTAINED FROM ASCE7-22, MULTIPLIED BY 0.6 SHALL BE LESS THAN OR EQUAL TO MAXIMUM DESIGN LOADS IN THIS DOCUMENT. THE DESIGN LOADS SHOWN IN THIS DOCUMENT ARE ALLOWABLE DESIGN LOADS.

INSTRUCTIONS

USE CHARTS AS FOLLOWS

STEP 1: DETERMINE (ASD) DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT & WIND ZONE PER ASCE7-22 STANDARD.

STEP 2: SEE TYPICAL ELEVATION ON SHEET E1 or E2 FOR MAXIMUM SIZES.

STEP 3: SEE CHART 1 ON SHEET G1 FOR APPROVED GLASS TYPES AND DESIGN LOAD CAPACITIES.

STEP 4: CHECK MULLION AND JAMB CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEET M1 THROUGH M3. THE CAPACITY SHOULD EXCEED THE JOB REQUIRED DESIGN LOAD.

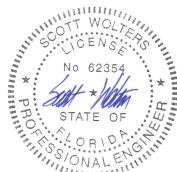
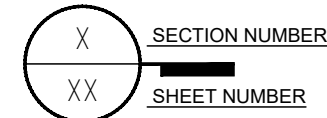
STEP 5: SEE ANCHOR OPTIONS ON SHEET A1 THROUGH A11 FOR TYPICAL HEAD / SILL ANCHOR AND MID-SPAN ANCHOR DETAILS AND ALLOWABLE LOADS.

STEP 6: THE LOWEST VALUE RESULTING FROM STEPS 2, 3, 4 AND 5 SHALL APPLY TO ENTIRE SYSTEM.

STEP 7: ANCHOR CONFIGURATIONS OTHER THAN SHOWN MAY BE ALLOWED PER PROJECT SPECIFIC CALCULATIONS BY A FL LICENSED PE.

ABBREVIATIONS:

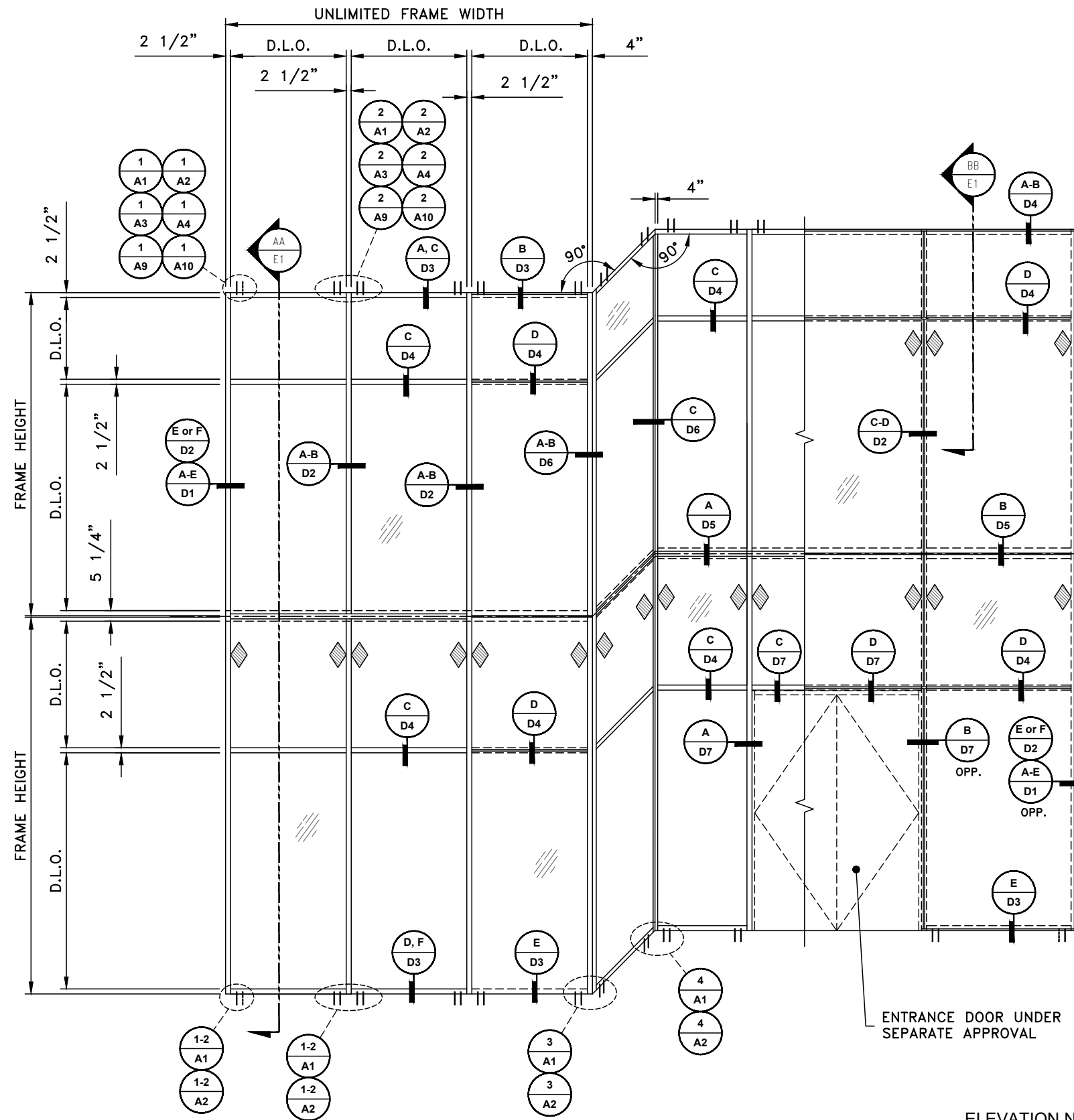
- ALUM.	ALUMINUM	-SSG	STRUCTURAL SILICONE GLAZED
- CL	CENTER LINE	-STL.	STEEL
- D.L.O.	DAYLIGHT OPENING	-TEMP	TEMPERED
- E.J.	EXPANSION JOINT	-VERT.	VERTICAL
- F.H.	FRAME HEIGHT	-W/	WITH
- F.W.	FRAME WIDTH	-W/O	WITHOUT
- HORIZ.	HORIZONTAL	-W/L	D/L, W/L ANCHOR
- H.S.	HEAT STRENGTHENED	- D.L.	DEAD LOAD
- I.S.	INSIDE	- W.L.	WIND LOAD
- LG.	LONG		
- MULL.	MULLION		
- O.C.	ON CENTER		
- O.S.	OUTSIDE		
- S.S.	STAINLESS STEEL		
<	LESS THAN		
>	GREATER THAN		



Digitally signed
by Scott Wolters
Date: 2026.09.09
09:43:38 -04'00'

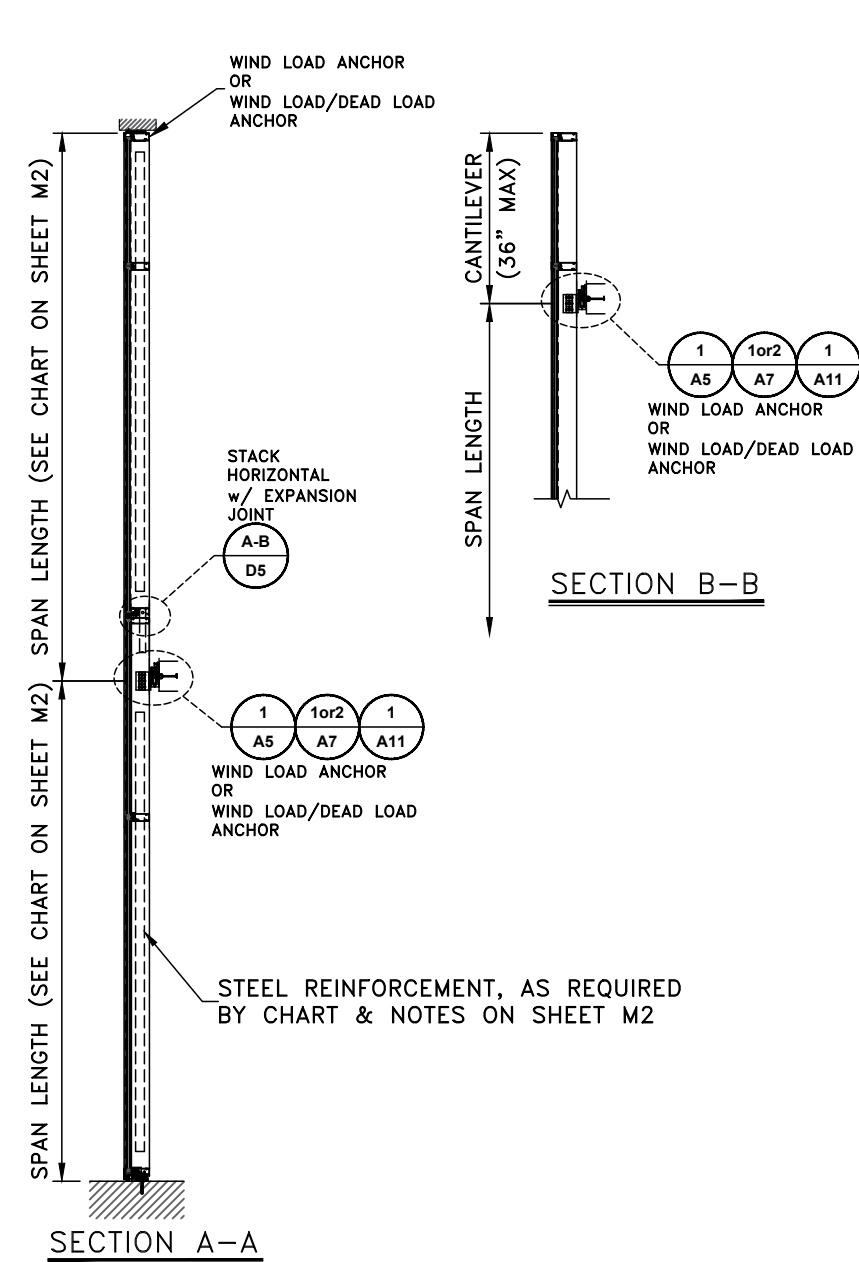
FLORIDA APPROVAL:
FL#41747.1

REVISIONS				
1	GLASS REVISION	08-28-24		
2	CODE COMPLIANCE	09-06-26		
3				
4				
5				
DRAWN BY: HG				
DATE: 01/04/2024				
T850A & T850B CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)				
CT WINDOWS				
d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES				
9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824				
(407) 857-9237				
SCOTT WOLTERS FL PE# 62354				
WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 PH/FAX: (561) 225-1982				
C1				
DRAWING NO. AAT1-23				
SHEET NO. 1 of 33				

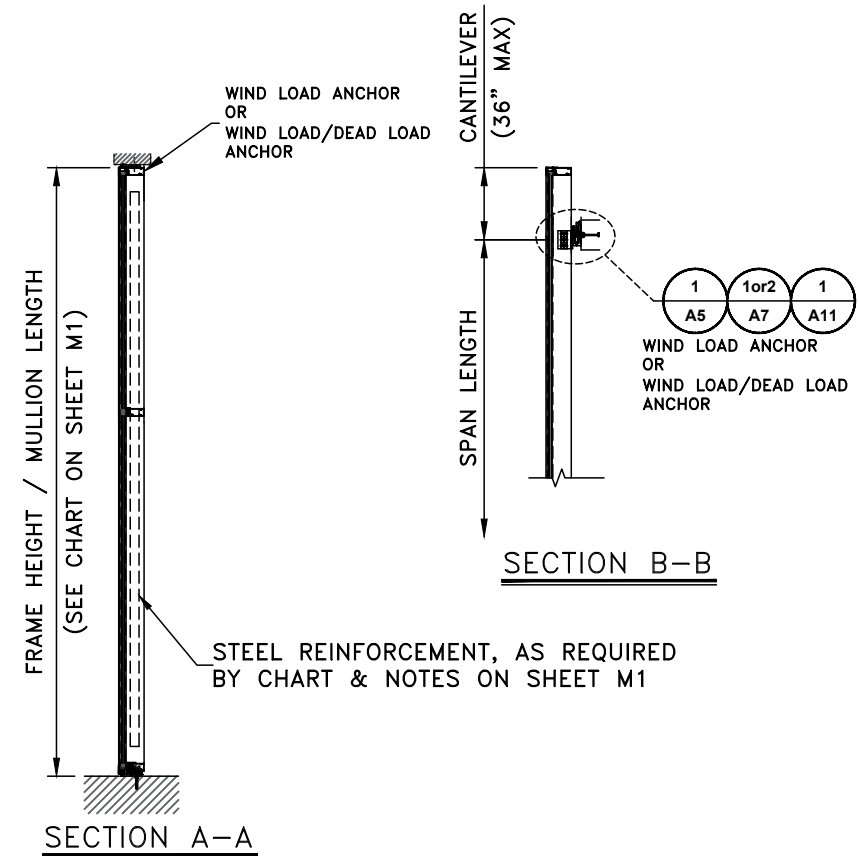


MULTI-SPAN ELEVATION
(EXTERIOR VIEW)
T850A
SCALE: N.T.S.

- ELEVATION NOTES:
1. CAPTURED & SSG VERTICALS & HORIZONTALS MAY BE USED INTERCHANGEABLY.
 2. 4-SIDED SSG PANELS ARE SHOP-GLAZED ONLY. ANY JOBSITE REGLAZING TO BE INSTALLED PER PROCEDURE APPROVED BY SILICONE MANUFACTURER.
 3. TWO-SPAN MULLION SHOWN. UNLIMITED SPANS MAY BE USED.
 4. CANTILEVERED HEAD OPTION MAY BE USED FOR ANY SPAN CONFIGURATION.



REVISIONS				
1	GLASS REVISION	08-28-24		
2	CODE COMPLIANCE	09-06-26		
3				
4				
5				
DRAWN BY: HG				
DATE: 01/04/2024				
T850A & T850B CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)				
CT WINDOWS				
d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES				
9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824				
(407) 857-9237				
SEAL: SCOTT WOLTERS FL PE# 62354				
WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 PH/FAX: (561) 225-1982				
E1				
DRAWING NO. AAT1-23				
SHEET NO. 2 of 33				



T850B
SCALE: N.T.S.

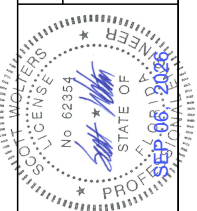
1. CAPTURED & SSG VERTICALS & HORIZONTALS MAY BE USED INTERCHANGEABLY.
2. 4-SIDED SSG PANELS ARE SHOP-GLAZED ONLY. ANY JOBSITE REGLAZING TO BE INSTALLED PER PROCEDURE APPROVED BY SILICONE MANUFACTURER.
3. FOR MULLIONS WITH OPTIONAL CANTILEVERED HEAD, THE SPAN LENGTH MAY BE USED INSTEAD OF THE FRAME HEIGHT FOR VALUES IN THE CHART ON SHEET M1.

REVISIONS	
1	GLASS REVISION
2	CODE COMPLIANCE
3	
4	
5	
08-28-24	
09-06-26	

T850A & T850B CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)

CT WINDOWS
d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES
9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824

(407) 857-9237



SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX:(561)225-1982

E2

DRAWING NO.

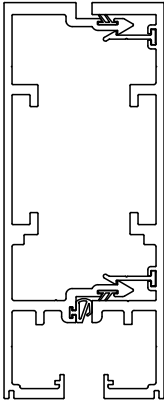
SHEET NO.

3 of 33

SINGLE SPAN MULLION CHART ALLOWABLE DESIGN PRESSURE (psf)												SINGLE SPAN MULLION CHART ALLOWABLE DESIGN PRESSURE (psf)																							
HEIGHT (in.)	WIDTH (in.)	CAPTURED & SSG MULLIONS										HEIGHT (in.)	WIDTH (in.)	CAPTURED & SSG MULLIONS																					
		M1	M2	M3	M5	M6	M7	C1 or C2	J1	J2	J3			M1	M2	M3	M5	M6	M7	C1 or C2	J1	J2	J3												
84	60	60	65	75	65	90	90	75	90	90	90	150	36	32.9	65	75	65	90	90	75	90	90	90	42 1/2	27.8	65	75	65	80.8	80.8	75	80.8	80.8	80.8	
	66	60	65	75	65	90	90	75	90	90	90		48	-	65	75	65	71.5	80	75	75	71.5	80	54	-	65	72.6	65	63.5	80	72.6	63.5	80		
	74 1/2	60	65	75	65	90	90	75	90	90	90		57 1/4	-	65	68.4	65	59.9	80	68.4	68.4	59.9	80	59 1/2	-	65	-	65	57.7	80	-	65	57.7	80	
	77	-	65	75	65	90	90	75	90	90	90		62 1/4	-	65	-	65	-	80	-	65	-	80	71 1/4	-	-	-	65	-	-	-	-	-		
90	60	60	65	75	65	90	90	75	90	90	90		156	36	29.2	65	75	65	84.7	84.7	75	84.7	84.7	84.7	40 3/4	25.8	65	75	65	74.7	80	75	75	74.9	80
	66	60	65	75	65	90	90	75	90	90	90			48	-	65	72.6	65	63.6	80	72.6	72.6	63.6	80	55	-	65	63.3	65	55.5	80	63.3	65	55.5	80
	71 1/4	60	65	75	65	90	90	75	90	90	90			57 1/4	-	65	-	65	53.3	80	-	65	55.5	80	60	-	65	-	65	-	80	-	65	-	80
	77	-	65	75	65	90	90	75	90	90	90			68 1/2	-	-	-	65	-	80	-	-	-	-	68 1/2	-	-	-	65	-	-	-	-	-	
96	60	60	65	75	65	90	90	75	90	90	90	162		36	-	65	75	65	75.7	80	75	75.7	75.7	80	42	-	65	74.1	65	64.9	80	74.1	74.1	64.9	80
	66 1/2	60	65	75	65	90	90	75	90	90	90			48	-	65	64.8	65	56.7	80	64.8	65	56.7	80	53	-	65	58.7	65	51.4	80	58.7	65	51.4	80
	72	-	65	75	65	90	90	75	90	90	90			55	-	63.3	-	65	49.5	77.9	-	63.3	49.5	77.9	57 3/4	-	60.3	-	65	-	74.7	-	60.3	-	74.7
	77	-	65	75	65	90	90	75	90	90	90			66	-	-	-	60.2	-	-	-	-	-	-	66	-	-	-	60.2	-	-	-	-	-	
102 1/8	60	60	65	75	65	90	90	75	90	90	90		168	36	-	65	66.4	65	58.2	80	66.4	66.4	58.2	80	42	-	65	64.8	65	56.7	80	64.8	65	56.7	80
	62 1/2	60	65	75	65	90	90	75	90	90	90			48	-	65	58.1	65	50.9	80	58.1	65	50.9	80	51	-	61.2	54.7	65	47.9	75.3	54.7	61.2	47.9	75.3
	66	-	65	75	65	90	90	75	90	90	90			53 1/4	-	58.6	-	65	45.9	72.1	-	58.6	45.9	72.1	55 3/4	-	56	-	63.9	-	68.9	-	56	-	68.9
	72	-	65	75	65	90	90	75	90	90	90			63 1/2	-	-	-	56.1	-	-	-	-	-	-	63 1/2	-	-	-	56.1	-	-	-	-	-	
108	48	60	65	75	65	90	90	75	90	90	90	174		36	-	65	69.7	65	61.1	80	69.7	69.7	61.1	80	42	-	65	74.1	65	64.9	80	74.1	74.1	64.9	80
	54	58.7	65	75	65	90	90	75	90	90	90			48	-	65	64.8	65	56.7	80	64.8	65	56.7	80	53	-	65	58.7	65	51.4	80	58.7	65	51.4	80
	59	53.7	65	75	65	90	90	75	90	90	90			55	-	63.3	-	65	49.5	77.9	-	63.3	49.5	77.9	57 3/4	-	60.3	-	65	-	74.7	-	60.3	-	74.7
	66	-	65	75	65	90	90	75	90	90	90			66	-	-	-	60.2	-	-	-	-	-	-	66	-	-	-	60.2	-	-	-	-	-	
114	42	60	65	75	65	90	90	75	90	90	90		180	36	-	65	66.4	65	58.2	80	66.4	66.4	58.2	80	42	-	65	66.4	65	58.2	80	66.4	66.4	58.2	80
	48	56.1	65	75	65	90	90	75	90	90	90			48	-	65	58.1	65	50.9	80	58.1	65	50.9	80	48	-	65	58.1	65	50.9	80	58.1	65	50.9	80
	54	49.9	65	75	65	90	90	75	90	90	90			51	-	61.2	54.7	65	47.9	75.3	54.7	61.2	47.9	75.3	51	-	61.2	54.7	65	47.9	75.3	54.7	61.2	47.9	75.3
	56	48.1	65	75	65	90	90	75	90	90	90			53 1/4	-	58.6	-	65	45.9	72.1	-	58.6	45.9	72.1	55 3/4	-	56	-	63.9	-	68.9	-	56	-	68.9
120	60	-	65	75	65	90	90	75	90	90	90	186		36	-	65	69.7	65	61.1	80	69.7	69.7	61.1	80	42	-	65	74.1	65	64.9	80	74.1	74.1	64.9	80
	66	-	65	75	65	90	90	75	90	90	90			48	-	65	64.8	65	56.7	80	64.8	65	56.7	80	48	-	65	64.8	65	56.7	80	64.8	65	56.7	80
	71 1/2	-	65	75	65	90	90	75	90	90	90			51	-	61.2	54.7	65	47.9	75.3	54.7	61.2	47.9	75.3	51	-	61.2	54.7	65	47.9	75.3	54.7	61.2	47.9	75.3
	74 1/2	-	65	-	65	90	90	-	90	90	90			53 1/4	-	58.6	-	65	45.9	72.1	-	58.6	45.9	72.1	55 3/4	-	56	-	63.9	-	68.9	-	56	-	68.9
126	36	60	65	75	65	90	90	75	90	90	90		192	36	-	65	69.7	65	61.1	80	69.7	69.7	61.1	80	42	-	65	74.1	65	64.9	80	74.1	74.1	64.9	80
	42	55	65	75	65	90	90	75	90	90	90			48	-	65	64.8	65	56.7	80	64.8	65	56.7	80	48	-	65	64.8	65	56.7	80	64.8	65	56.7	80
	48	48.1	65	75	65	90	90	75	90	90	90			51	-	61.2	54.7	65	47.9	75.3	54.7	61.2	47.9	75.3	51	-	61.2	54.7	65	47.9	75.3	54.7	61.2	47.9	75.3
	53	43.6	65	75	65	90	90	75	90	90	90			53 1/4	-	58.6	-	65	45.9	72.1	-	58.6	45.9	72.1	55 3/4	-	56	-	63.9	-	68.9	-	56	-	68.9
132	60	-	65	75	65	90	90	75	90	90	90	204		36	-	65	69.7	65	61.1	80	69.7	69.7	61.1	80	42	-	65	74.1	65	64.9	80	74.1	74.1	64.9	80
	66	-	65	75	65	90	90	75	90	90	90			48	-	65	64.8	65	56.7	80	64.8	65	56.7	80	48	-	65	64.8	65	56.7	80	64.8	65	56.7	80
	71 1/2	-	65	75	65	90	90	75	90	90	90			51	-	61.2	54.7	65	47.9	75.3	54.7	61.2	47.9	75.3	51	-	61.2	54.7	65	47.9	75.3	54.7	61.2	47.9	75.3
	74 1/2	-	65	-	65	90	90	-	90	90	90			53 1/4	-	58.6	-	65	45.9	72.1	-	58.6	45.9	72.1	55 3/4	-	56	-	63.9	-	68.9	-	56	-	68.9
138	36	55.4	65	75	65	90	90	75	90	90	90		216	36	-	65	69.7	65	61.1	80	69.7	69.7	61.1	80	42	-	65	74.1	65	64.9	80	74.1	74.1	64.9	80
	42	47.5	65	75	65	90	90	75	90	90	90			48	-	65	64.8	65	56.7	80	64.8	65	56.7	80	48	-	65	64.8	65	56.7	80	64.8	65	56.7	80
	48	41.6	65	75	65	90	90	75	90	90	90			51	-	61.2	54.7	65	47.9	75.3	54.7	61.2	47.9	75.3	51	-	61.2	54.7	65	47.9	75.3	54.7	61.2	47.9	75.3
	50 1/2	39.5	65	75	65	90	90	75	90	90	90			53 1/4	-	58.6	-	65	45.9	72.1	-	58.6	45.9	72.1	55 3/4	-	56	-	63.9	-	68.9	-	56	-	68.9
143 1/4	54	-	65	75	65	90	90	75	90	90	90	228		36	-	65	69.7	65	61.1	80	69.7	69.7	61.1	80	42	-	65	74.1	65	64.9	80	74.1	74.1	64.9	80
	60	-	65	75	65	90	90	75	90	90	90			48	-	65	64.8	65	56.7	80	64.8	65	56.7	80	48	-	65	64.8	65	56.7	80	64.8	65	56.7	80
	68 1/4	-	65	75	65	84.8	84.8	75	8																										

2 SPAN or MULTI-SPAN MULLION CHART						
ALLOWABLE DESIGN PRESSURE (psf)						
HEIGHT (in.)	WIDTH (in.)	CAPTURED & SSG MULLIONS				
		M1	M3	M4	J1	C1 or C2
132	36	65	65	65	65	65
	42	65	65	65	65	65
	48	65	65	65	65	65
	54	65	65	65	65	65
	60	65	65	65	65	65
	66	65	65	65	65	65
	72	64.5	65	65	65	65
144	36	65	65	65	65	65
	42	65	65	65	65	65
	48	65	65	65	65	65
	54	65	65	65	65	65
	60	65	65	65	65	65
	66	61.9	65	65	65	65
	69	58.7	65	65	65	65
156	36	65	65	65	65	65
	42	65	65	65	65	65
	48	64.9	65	65	65	65
	54	57.7	65	65	65	65
	60	51.6	65	65	65	65
	64	48.7	65	64.7	65	65
168	36	65	65	65	65	65
	42	58.3	65	65	65	65
	48	51	65	65	65	65
	54	45.3	65	65	65	65
180	30	64.5	65	65	65	65
	36	54	65	65	65	65
	42	46.3	65	62	65	65
	48	40.5	62	54	65	62
192	30	52	65	65	65	65
	36	43	65	58	65	65
	42	37	57	50	65	57
	48	33	50	43	65	50
204	30	42	65	56	65	65
	36	35	54	47	65	54
	42	30	46	40	65	46
	48	26	40	35	59	40
216	30	35	53	46	65	53
	36	29	44	39	65	44
	42	25	38	33	57	38
228	30	29	44	38	65	44
	36	-	37	32	55	37
	42	-	32	27	48	32
240	30	-	37	32	56	37
	36	-	30	27	48	30
	42	-	27	-	42	27

CHART M2



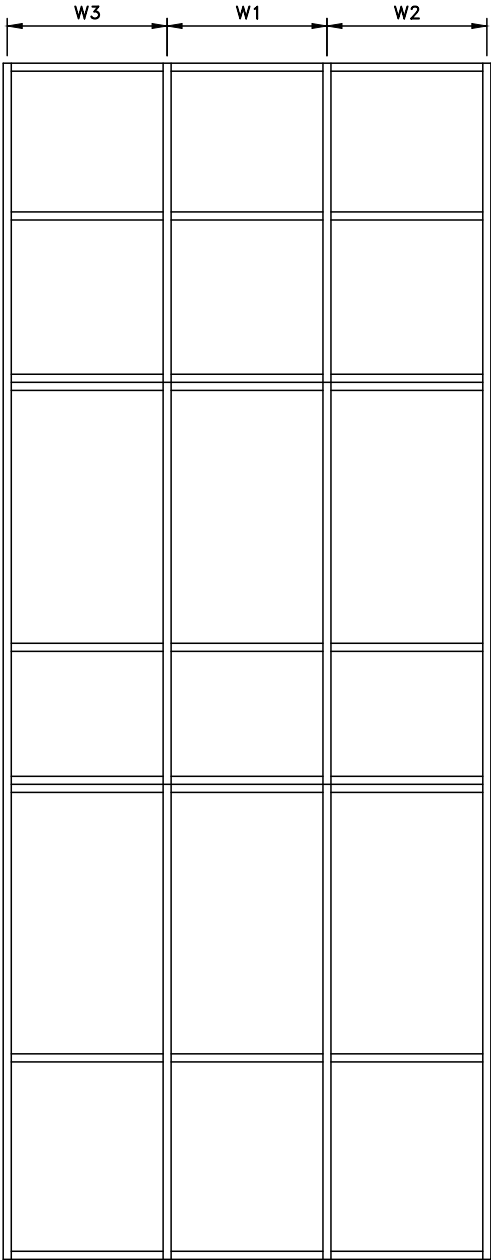
FOR MULLION CONFIGURATIONS
M1, M3, M4, J1, C1 & C2
REFER TO **SHEET M3** FOR DESCRIPTION

MULTI-SPAN MULLIONS WITH UNEQUAL SPANS MUST MEET ALL OF THE FOLLOWING REQUIREMENTS:

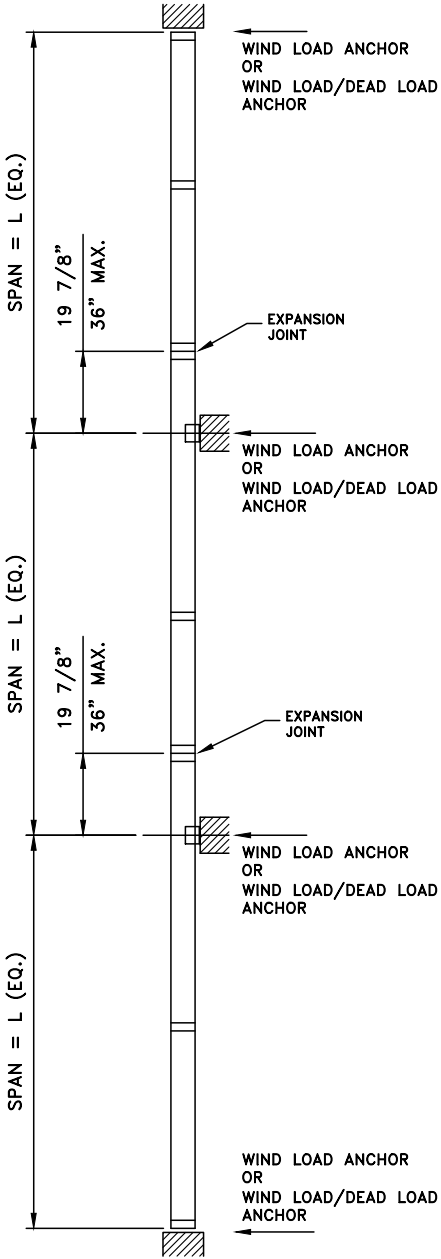
- MAX. WINDLOAD = +/- 65 PSF
- MAX. DEFLECTION = L/180
- MAX. SPAN TRIBUTARY AREA:
 - MULLION = 75 FT²
 - JAMB = 39.7 FT²
 - CORNER = 59.4 FT²
- MAX. BENDING MOMENT:
 - REINFORCED MULLION = 80,500 IN-LB.
 - UN-REINFORCED MULLION = 43,900 IN-LB.
 - JAMB MULLION = 41,900 IN-LB.
 - CORNER MULLION = 69,200 IN-LB.
- MAX. END REACTIONS:
 - MULLION = 2005 LB.
 - JAMB = 1045 LB.
 - CORNER = 1725 LB.
- MAX. MID-SPAN REACTIONS:
 - MULLION = 4855 LB.
 - JAMB = 2530 LB.
 - CORNER = 4175 LB.

- NOTES:
- SPAN LENGTH IS LIMITED TO 180" IN THE HVHZ.
 - SPAN TRIBUTARY AREA = ANCHOR TO ANCHOR LENGTH x MULLION TRIBUTARY WIDTH (W)
 - CORNER MULLION TRIBUTARY AREA IS BASED ON PROJECTED WIDTH (FROM CENTER OF DLO TO CENTER OF DLO).

- NOTES:
- SPAN LENGTH IS LIMITED TO 180" IN THE HVHZ.
 - JAMB MULLIONS ARE LIMITED BY TESTING AND TO L/180 MAX. DEFLECTION. JAMBS MUST ALSO MEET THE DEFLECTION REQUIREMENTS OF THE PERIMETER SEALANT MANUFACTURER AND ASTM C1472.



(INTERMEDIATE MULLION) WIDTH (W) = $\frac{W1+W2}{2}$
(JAMB MULLION) WIDTH (W) = W3



REVISIONS

1	GLASS REVISION	08-28-24
2	CODE COMPLIANCE	09-06-26

DRAWN BY: HG

DATE:01/04/2024

T850A & T850B CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)

CT WINDOWS

d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES

9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824

(407) 857-9237

SEAL:

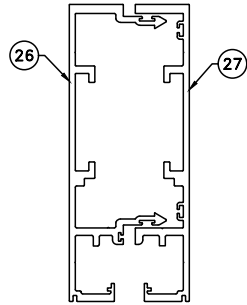
SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 9TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX:(561)225-1982

M2

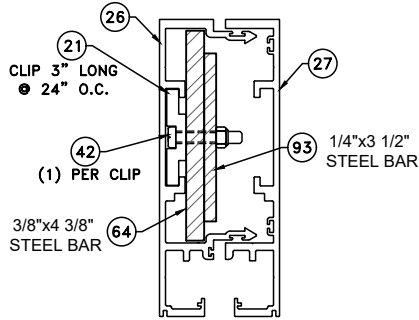
DRAWING NO.
AAT1-23

SHEET NO.
6 of 33



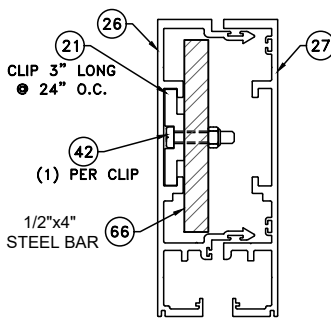
MULLION M1

M1	Ixx IN^4	Sxx IN^3
26 CTW-1123	7.7187	2.4679
27 CTW-1124	6.5449	2.0757
TOTAL	14.2636	
Ixx ALUM		



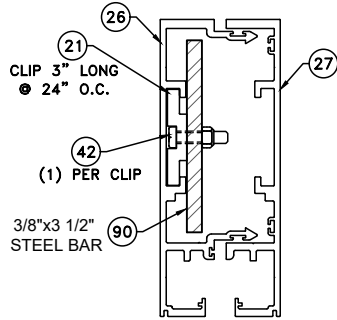
MULLION M2

M2	Ixx IN^4	Sxx IN^3
26 CTW-1123	7.7187	2.4679
27 CTW-1124	6.5449	2.0757
64 R1(STL)	2.617	1.196
93 R7(STL)	0.893	0.510
TOTAL	24.443	-
Ixx ALUM + STL x 2.9		



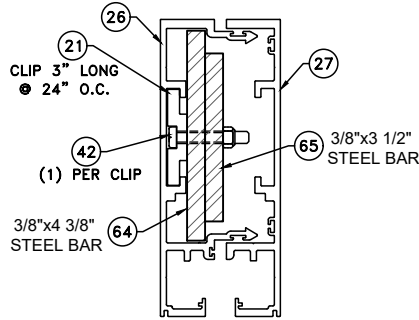
MULLION M3

M3	Ixx IN^4	Sxx IN^3
26 CTW-1123	7.7187	2.4679
27 CTW-1124	6.5449	2.0757
66 R3(STL)	2.667	1.333
TOTAL	21.998	-
Ixx ALUM + STL x 2.9		



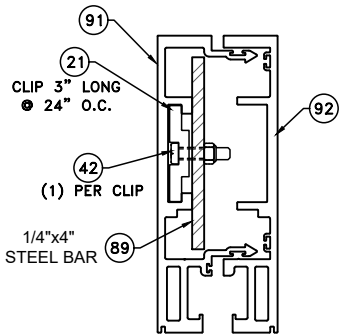
MULLION M4

M4	Ixx IN^4	Sxx IN^3
26 CTW-1123	7.7187	2.4679
27 CTW-1124	6.5449	2.0757
90 R6(STL)	1.667	0.833
TOTAL	19.098	-
Ixx ALUM + STL x 2.9		



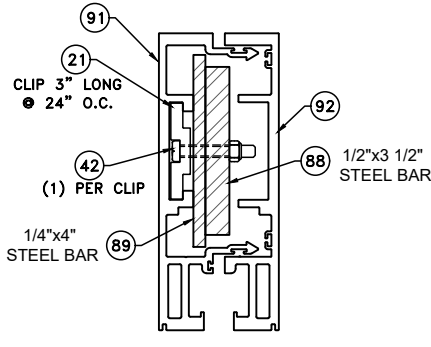
MULLION M5

M5	Ixx IN^4	Sxx IN^3
26 CTW-1123	7.7187	2.4679
27 CTW-1124	6.5449	2.0757
64 R1(STL)	2.617	1.196
65 R2(STL)	1.340	0.766
TOTAL	25.739	-
Ixx ALUM + STL x 2.9		



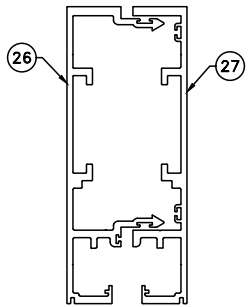
MULLION M6

M6	Ixx IN^4	Sxx IN^3
91 CTW-1131	10.517	3.290
92 CTW-1132	9.213	2.787
89 R5(STL)	1.333	0.667
TOTAL	23.596	-
Ixx ALUM + STL x 2.9		



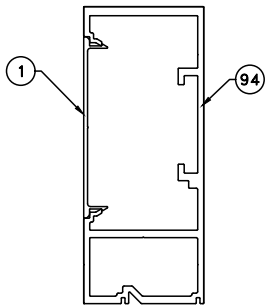
MULLION M7

M7	Ixx IN^4	Sxx IN^3
91 CTW-1131	10.517	3.290
92 CTW-1132	9.213	2.787
88 R4(STL)	1.786	1.021
89 R5(STL)	1.333	0.667
TOTAL	28.775	-
Ixx ALUM + STL x 2.9		



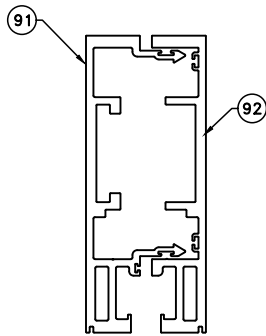
JAMB MULLION J1

J1	Ixx IN^4	Sxx IN^3
26 CTW-1123	7.7187	2.4679
27 CTW-1124	6.5449	2.0757
TOTAL	14.2636	
Ixx ALUM		



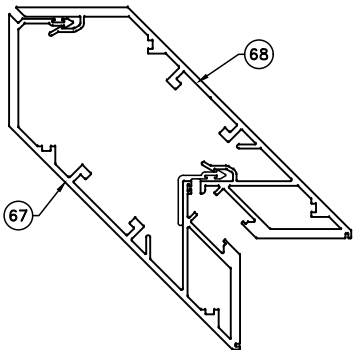
JAMB MULLION J2

J2	Ixx IN^4	Sxx IN^3
94 CTW-1147	12.696	3.819
1 TGF-1202	0.526	0.279
TOTAL	13.222	-
Ixx ALUM		



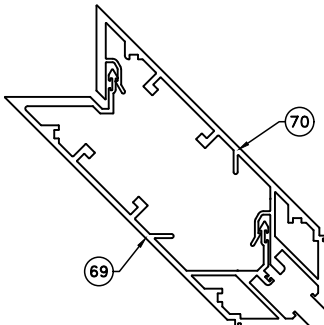
JAMB MULLION J3

J3	Ixx IN^4	Sxx IN^3
91 CTW-1131	10.517	3.290
92 CTW-1132	9.213	2.787
TOTAL	19.730	-
Ixx ALUM		



CORNER MULLION C1

C1	Ixx IN^4	Sxx IN^3
67 CTW-1125	23.887	4.046
68 CTW-1126	22.552	5.675
TOTAL	46.439	
Ixx ALUM		



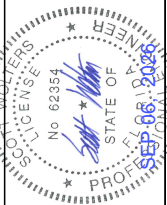
CORNER MULLION C2

C2	Ixx IN^4	Sxx IN^3
69 TGF-1127	19.621	4.408
70 TGF-1128	21.146	4.613
TOTAL	40.767	
Ixx ALUM		

REVISIONS		08-28-24	09-06-26
1	GLASS REVISION		
2	CODE COMPLIANCE		
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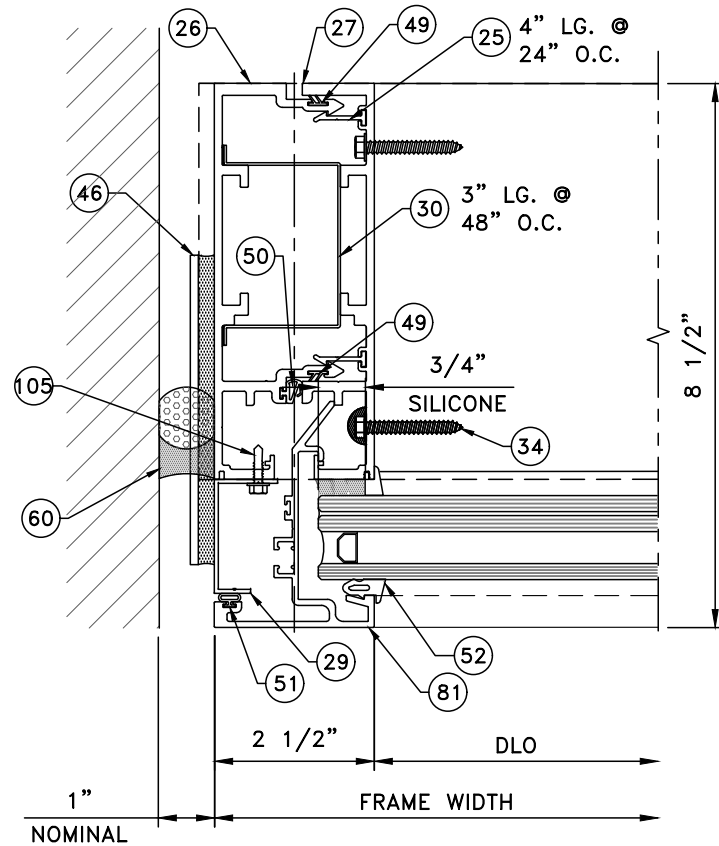
DRAWN BY: HG
DATE:01/04/2024

T850A & T850B CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)
CT WINDOWS
d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES
9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824
(407) 857-9237

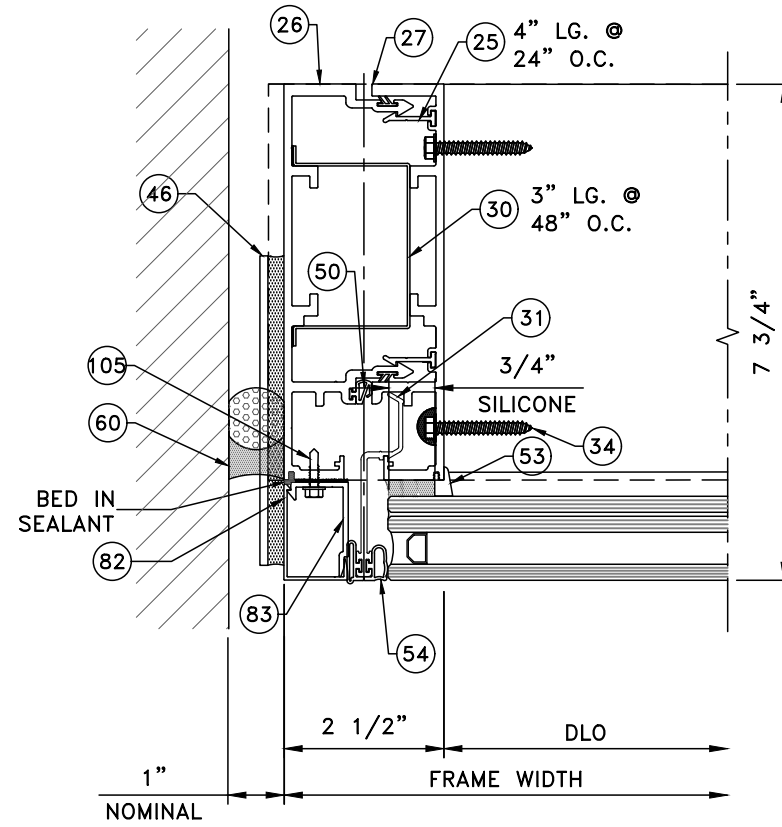


SEAL:
SCOTT WOLTERS
FL PE# 62354
WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX:(561)225-1982

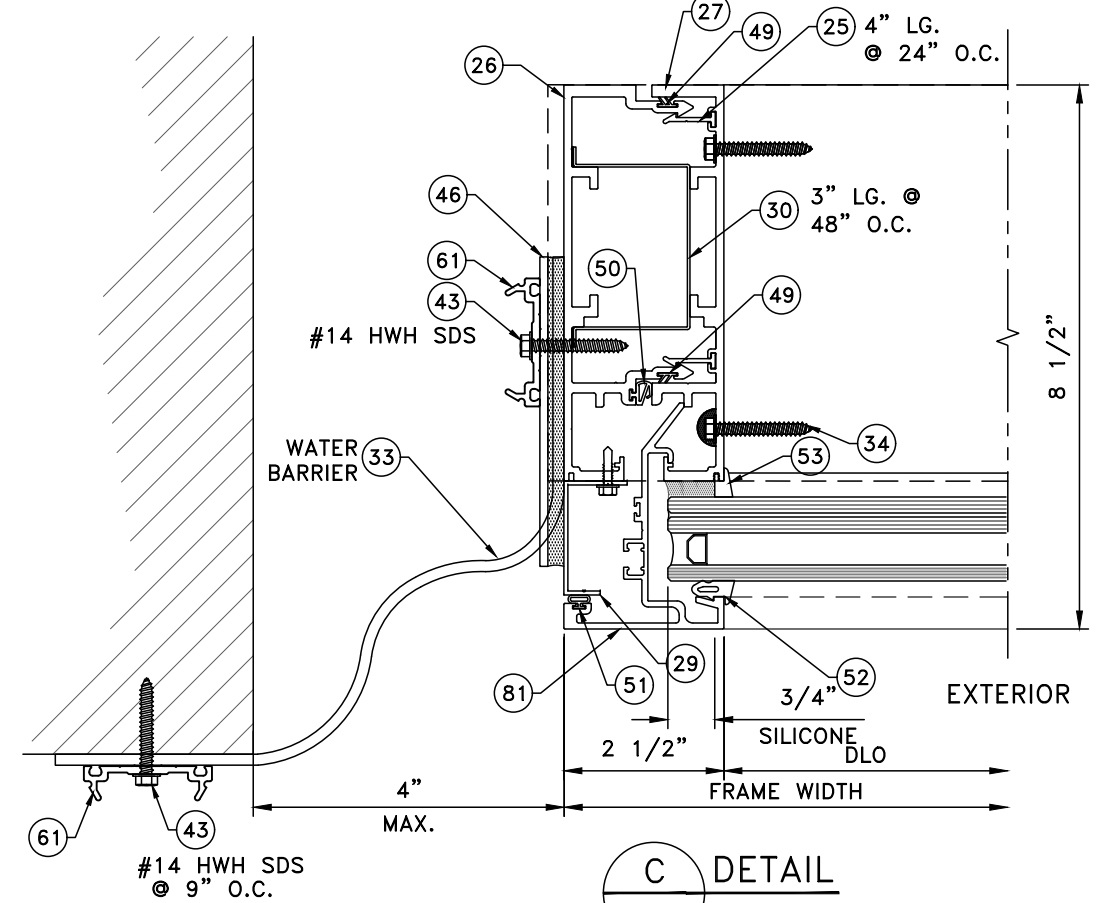
M3
DRAWING NO.
AAT1-23
SHEET NO.
7 of 33



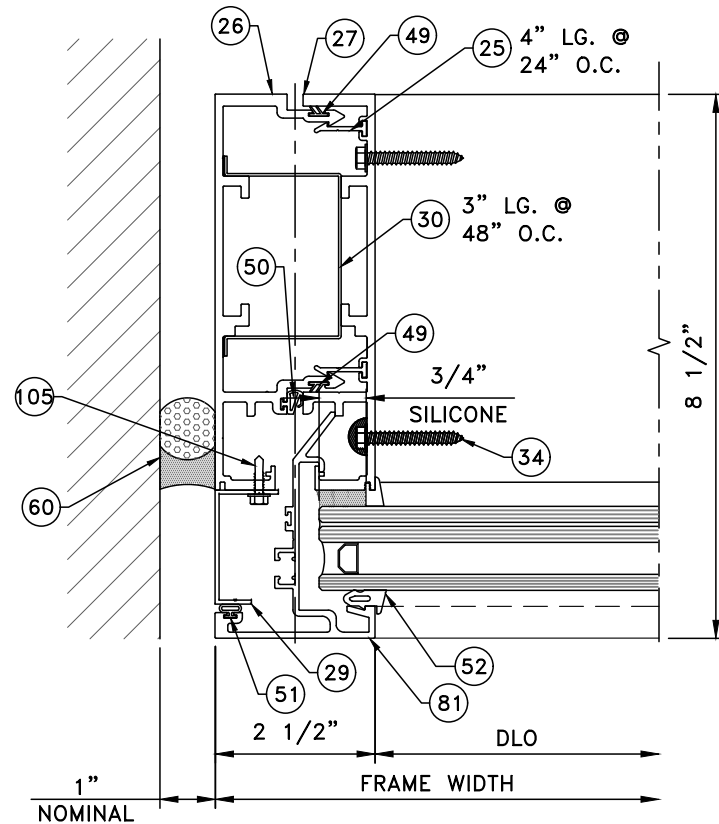
A DETAIL
D1 T850A



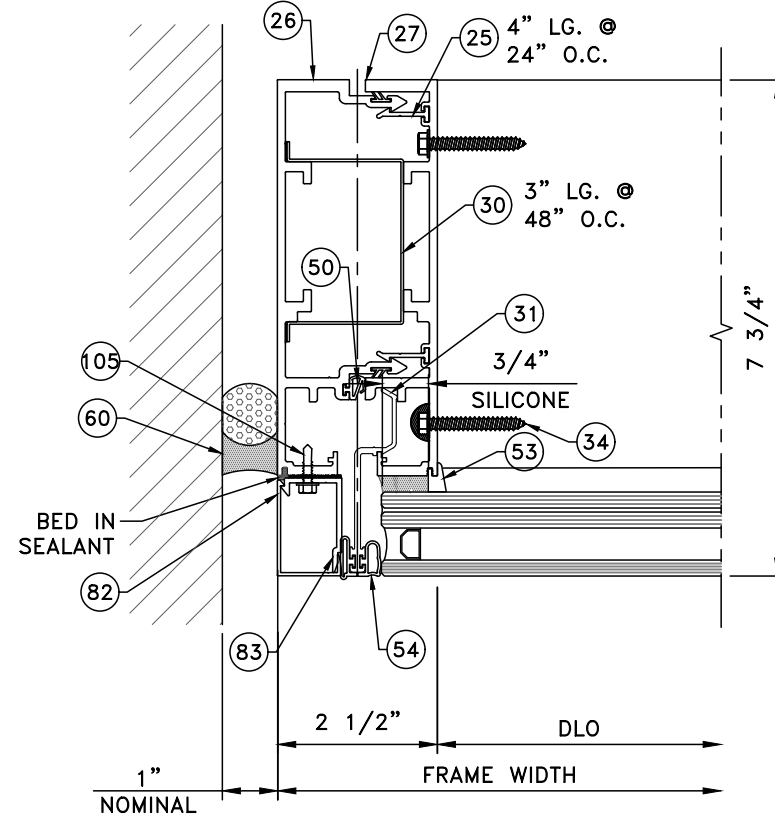
B DETAIL
D1 T850A



C DETAIL
D1 T850A



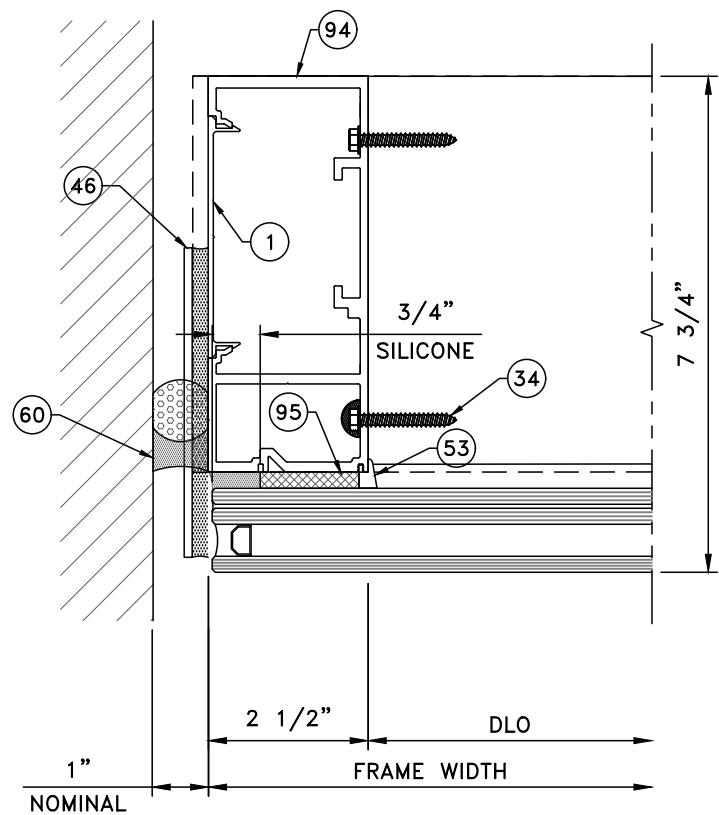
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D1 T850B



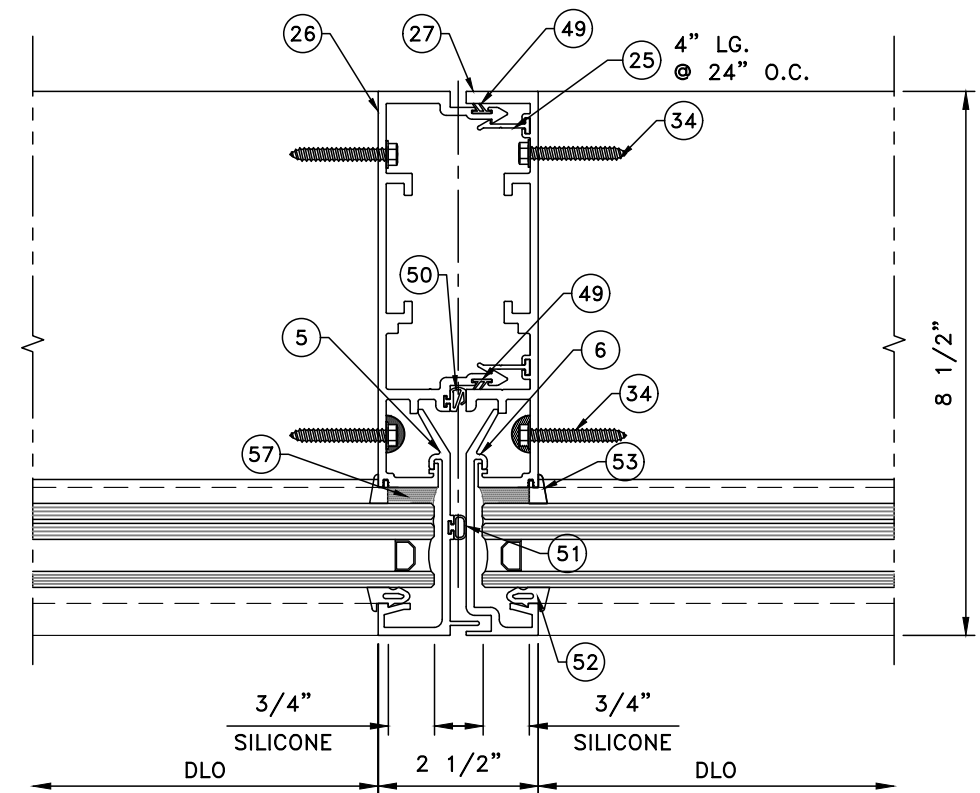
E DETAIL
D1 T850B

THE 1" CAULK JOINT WIDTH SHOWN IS A NOMINAL DIMENSION. THE SYSTEM HAS BEEN TESTED FOR WIDTHS UP TO 4", BUT ANY SIZE MAY BE USED PROVIDED THE INSTALLATION MEETS THE SEALANT MANUFACTURERS REQUIREMENTS AND ASTM C1472.

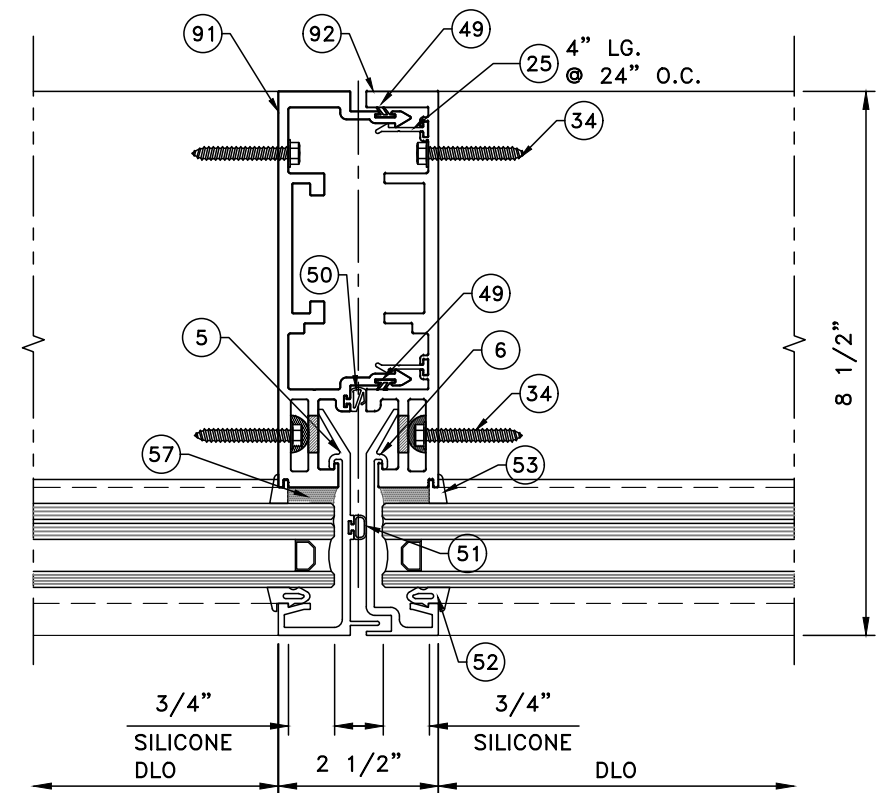
T850A & T850B CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)		CT WINDOWS		d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES													
9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824		(407) 857-9237															
<table border="1"> <tr> <th colspan="2">REVISIONS</th> <th>GLASS REVISION</th> <th>CODE COMPLIANCE</th> <th>08-28-24</th> <th>09-06-26</th> </tr> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td></td> </tr> </table>						REVISIONS		GLASS REVISION	CODE COMPLIANCE	08-28-24	09-06-26	1	2	3	4	5	
REVISIONS		GLASS REVISION	CODE COMPLIANCE	08-28-24	09-06-26												
1	2	3	4	5													
DRAWN BY: HG																	
DATE: 01/04/2024																	
<table border="1"> <tr> <td>SCOTT WOLTERS</td> <td>FL PE# 62354</td> <td>WOLTERS ENGINEERING</td> <td>(COA# 27194)</td> <td>15211 97TH ROAD N</td> <td>WEST PALM BEACH, FL 33412</td> </tr> <tr> <td colspan="3">SEAL:</td> <td colspan="3">PH/FAX: (561) 225-1982</td> </tr> </table>						SCOTT WOLTERS	FL PE# 62354	WOLTERS ENGINEERING	(COA# 27194)	15211 97TH ROAD N	WEST PALM BEACH, FL 33412	SEAL:			PH/FAX: (561) 225-1982		
SCOTT WOLTERS	FL PE# 62354	WOLTERS ENGINEERING	(COA# 27194)	15211 97TH ROAD N	WEST PALM BEACH, FL 33412												
SEAL:			PH/FAX: (561) 225-1982														
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D1		DRAWING NO.		AAT1-23													
		SHEET NO.		8 of 33													



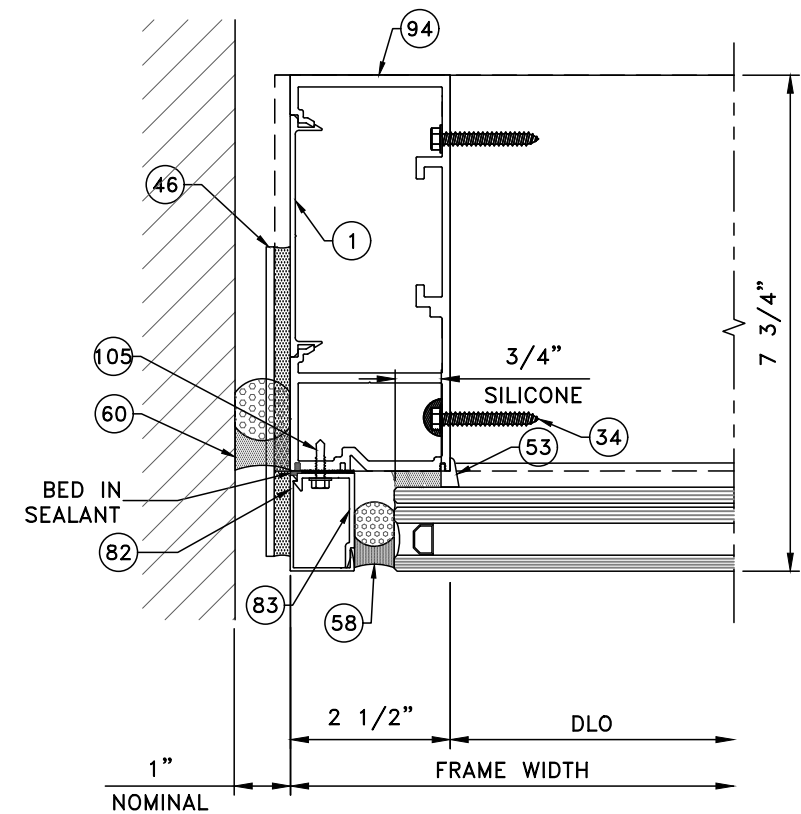
E DETAIL
D2 T850A



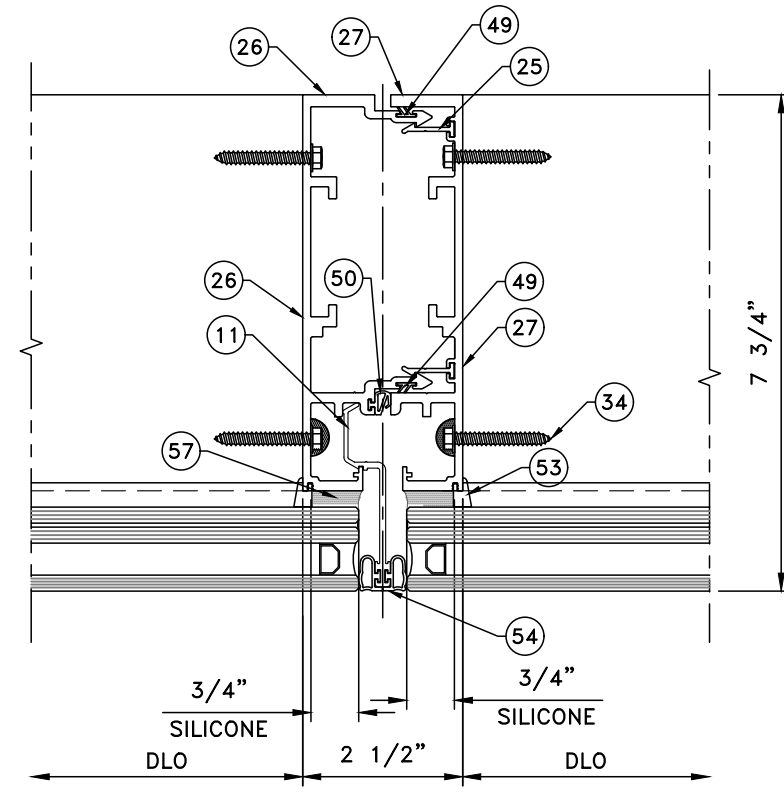
A DETAIL
D2



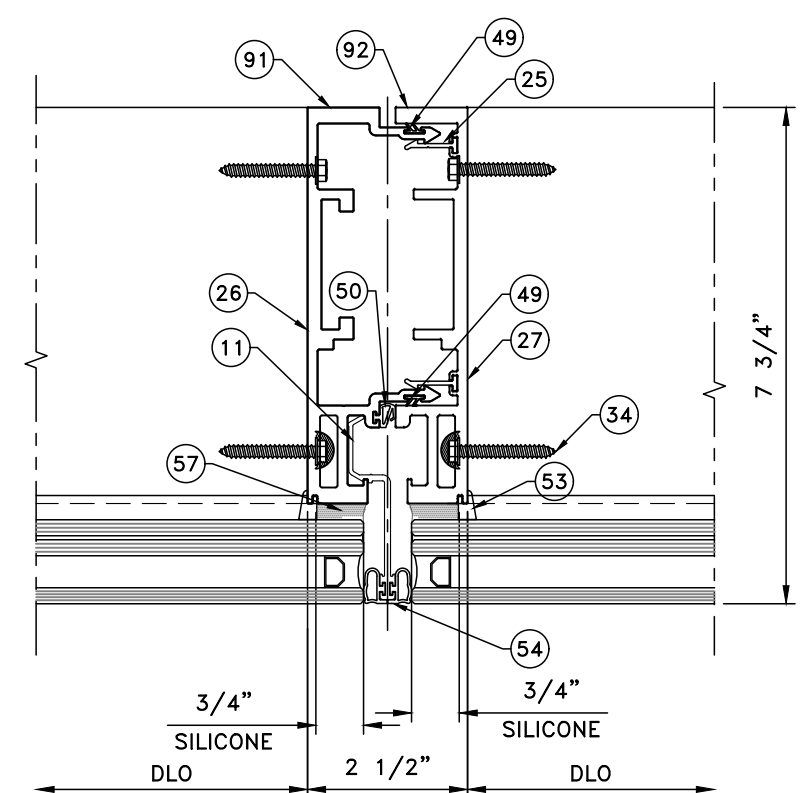
B DETAIL
D2



F DETAIL
D2 T850A



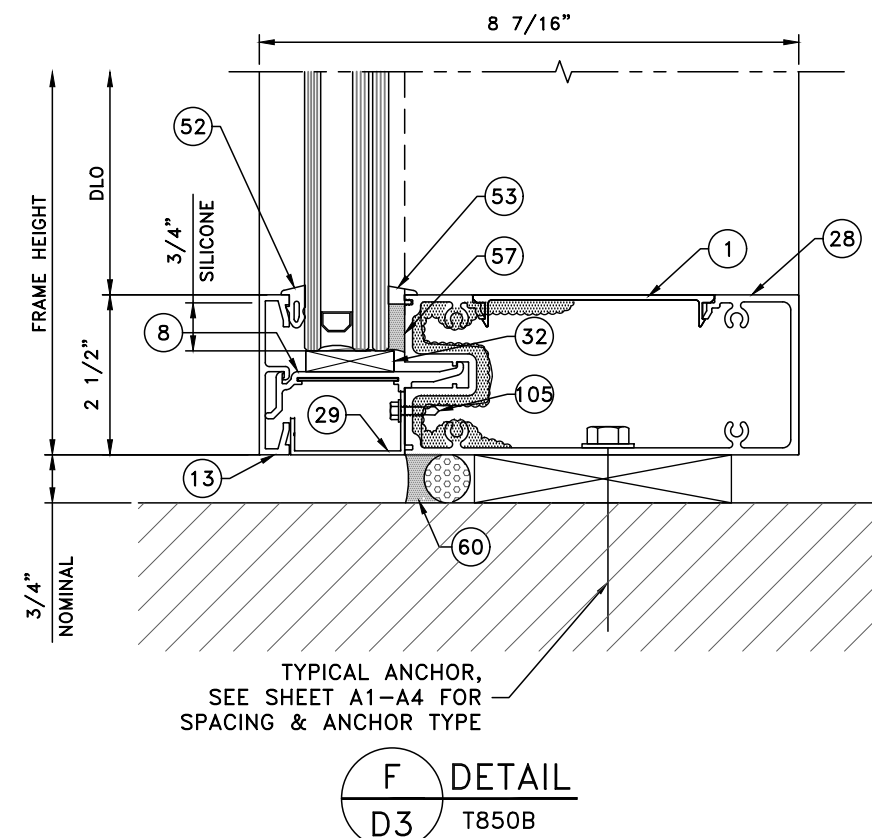
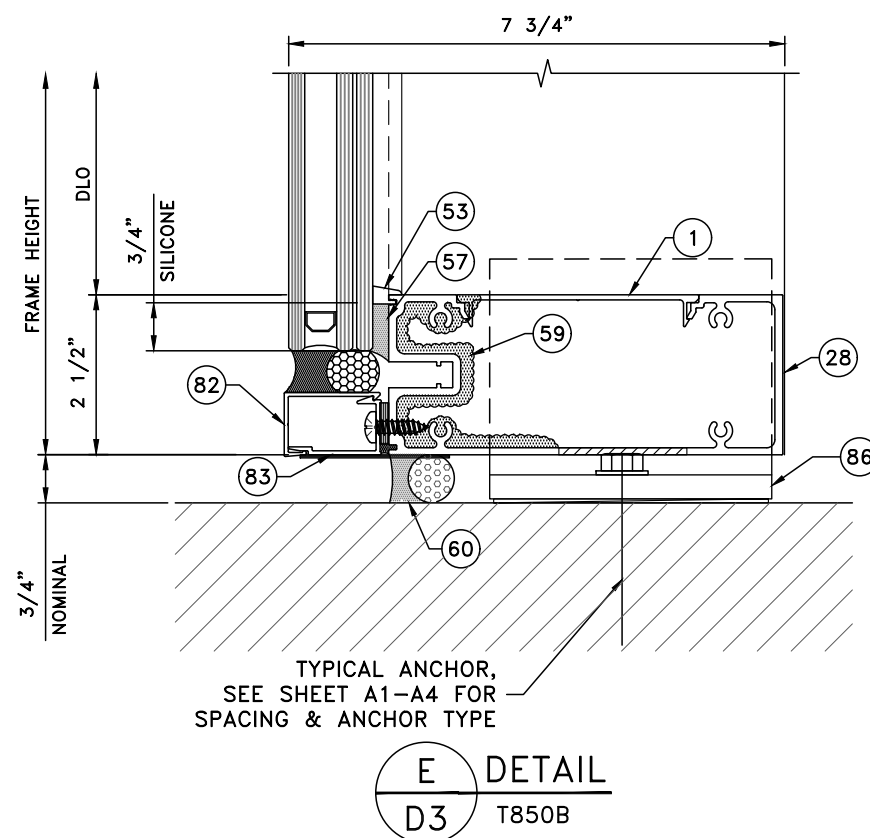
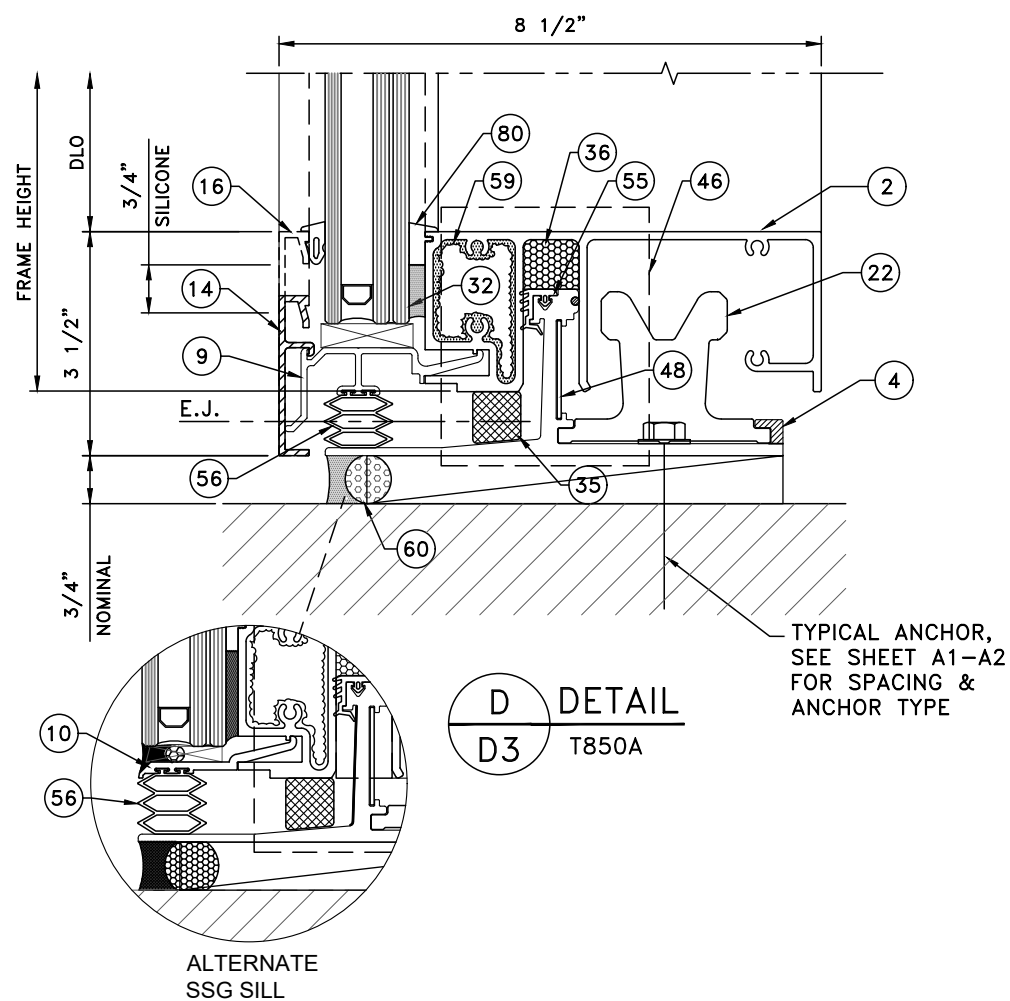
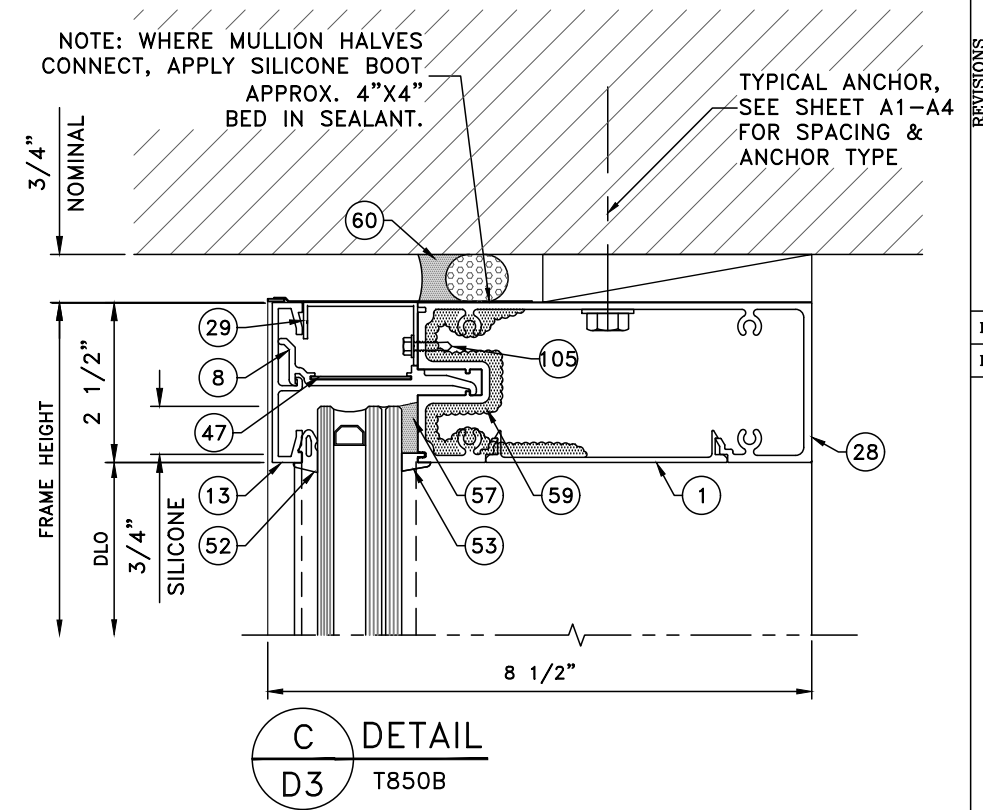
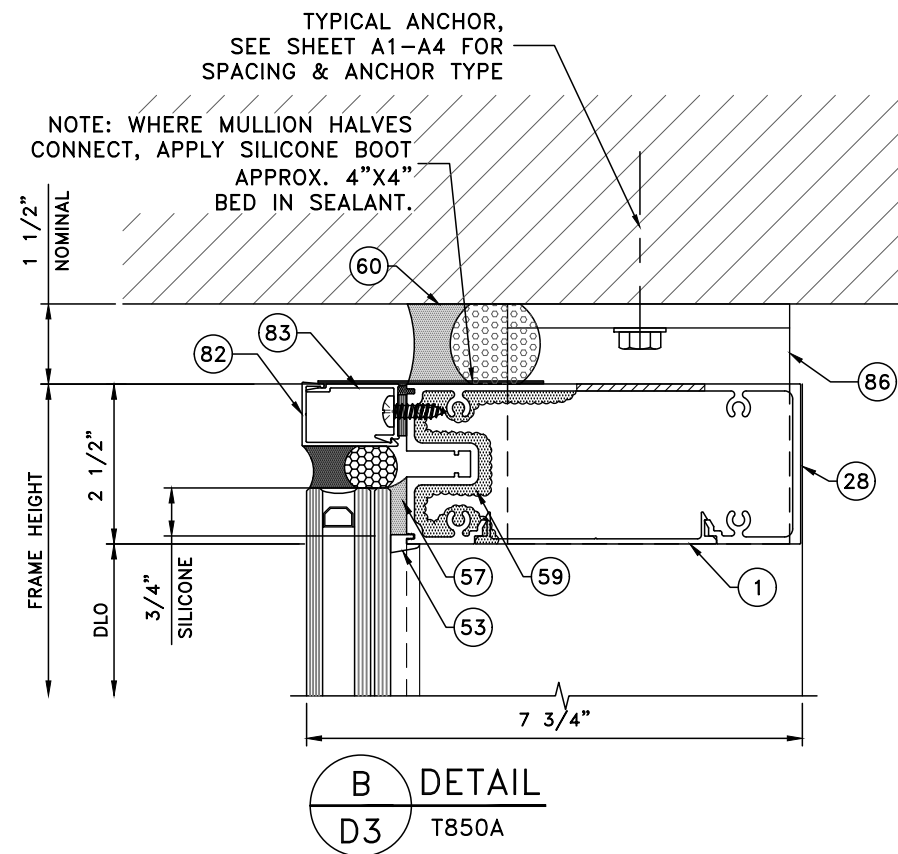
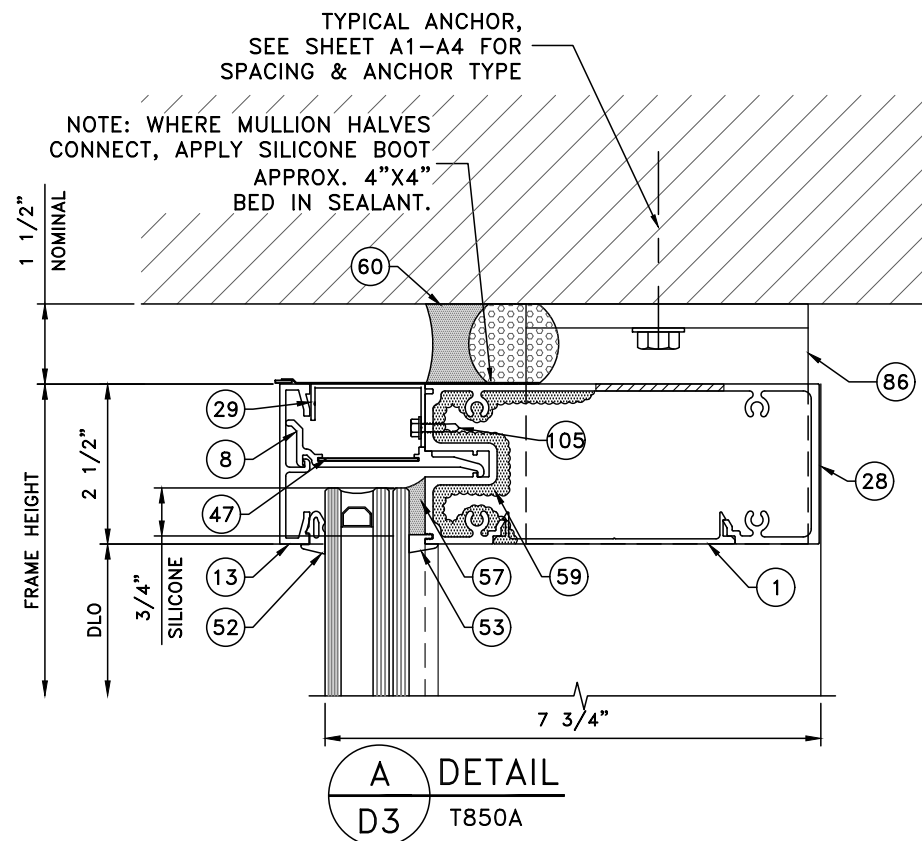
C DETAIL
D2



D DETAIL
D2

SEE SHEET M3 FOR STEEL
REINFORCING REQUIREMENTS.

T850A & T850B CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)		CT WINDOWS		d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES	
9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824		(407) 857-9237			
REVISIONS 1 GLASS REVISION 08-28-24 2 CODE COMPLIANCE 09-06-26 3 4 5 DRAWN BY: HG DATE: 01/04/2024					
SCOTT WOLTERS FL PE# 62354 WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 PH/FAX: (561) 225-1982 D2 DRAWING NO. AAT1-23 SHEET NO. 9 of 33					



REVISIONS	
1	GLASS REVISION
2	CODE COMPLIANCE
3	
4	
5	

DRAWN BY: HG

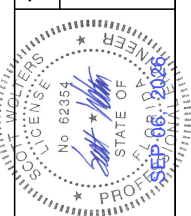
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T850A & T850B CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)

CT WINDOWS

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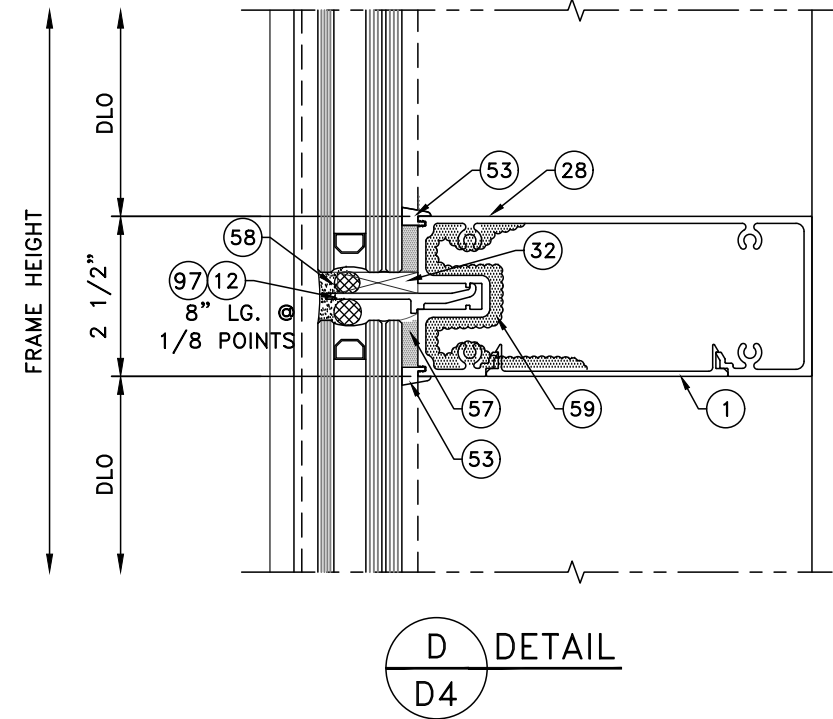
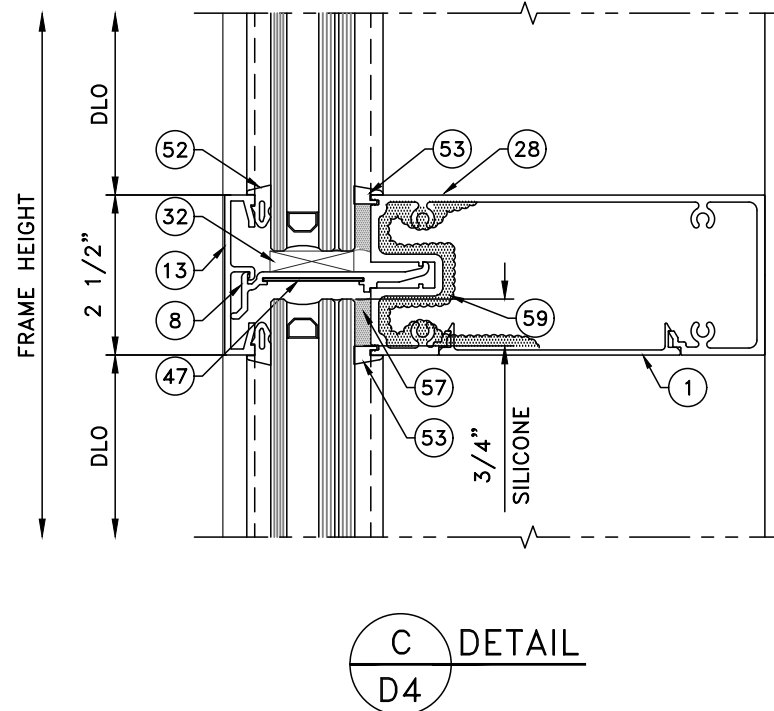
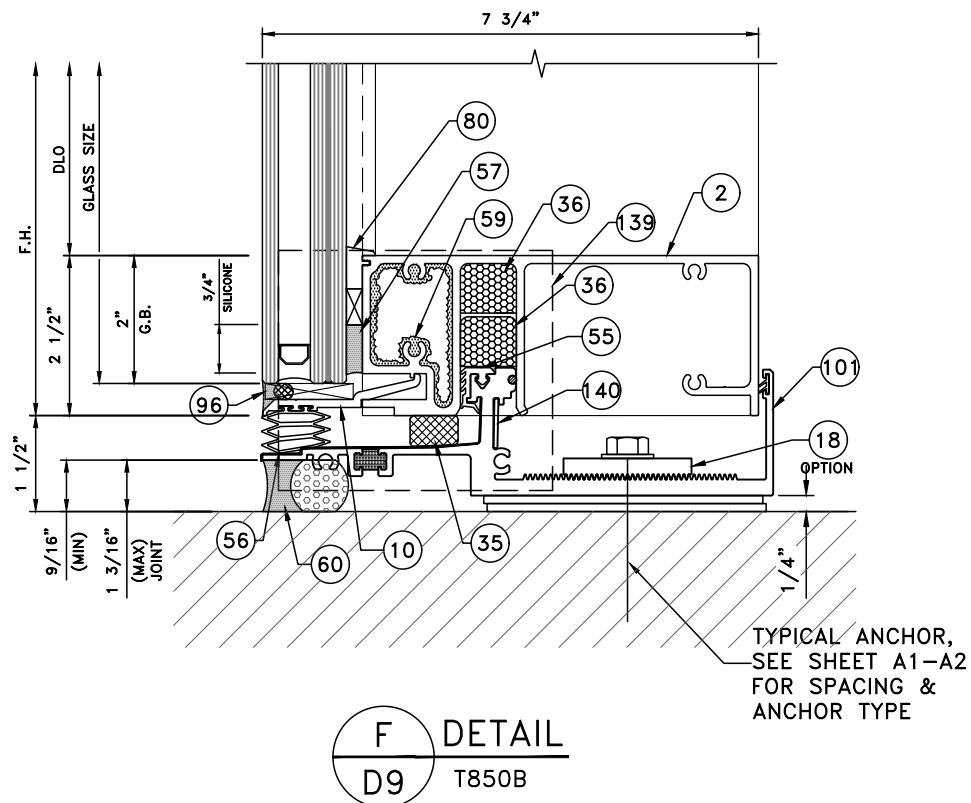
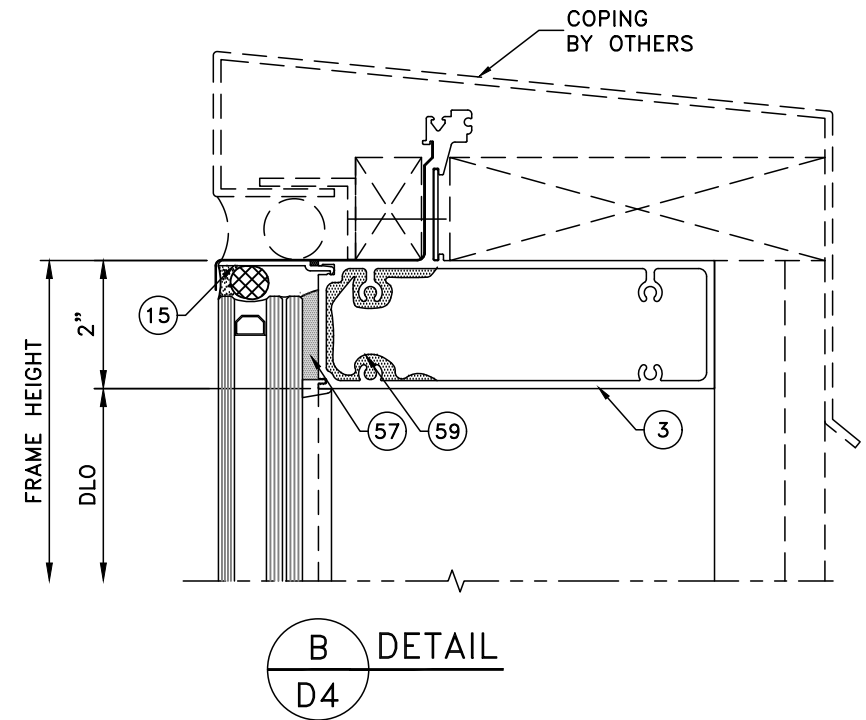
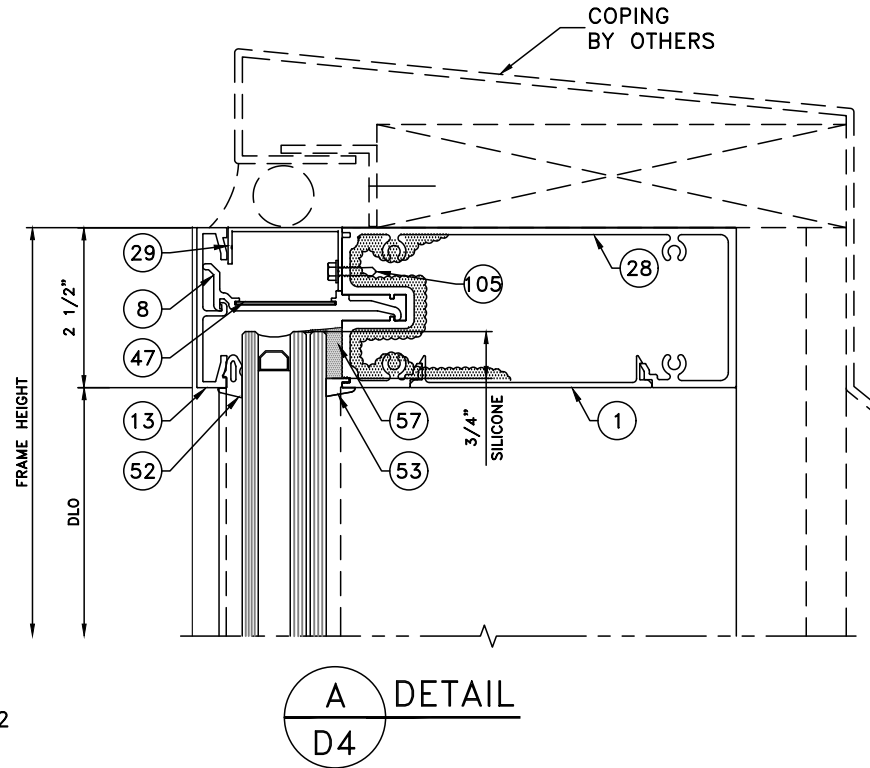
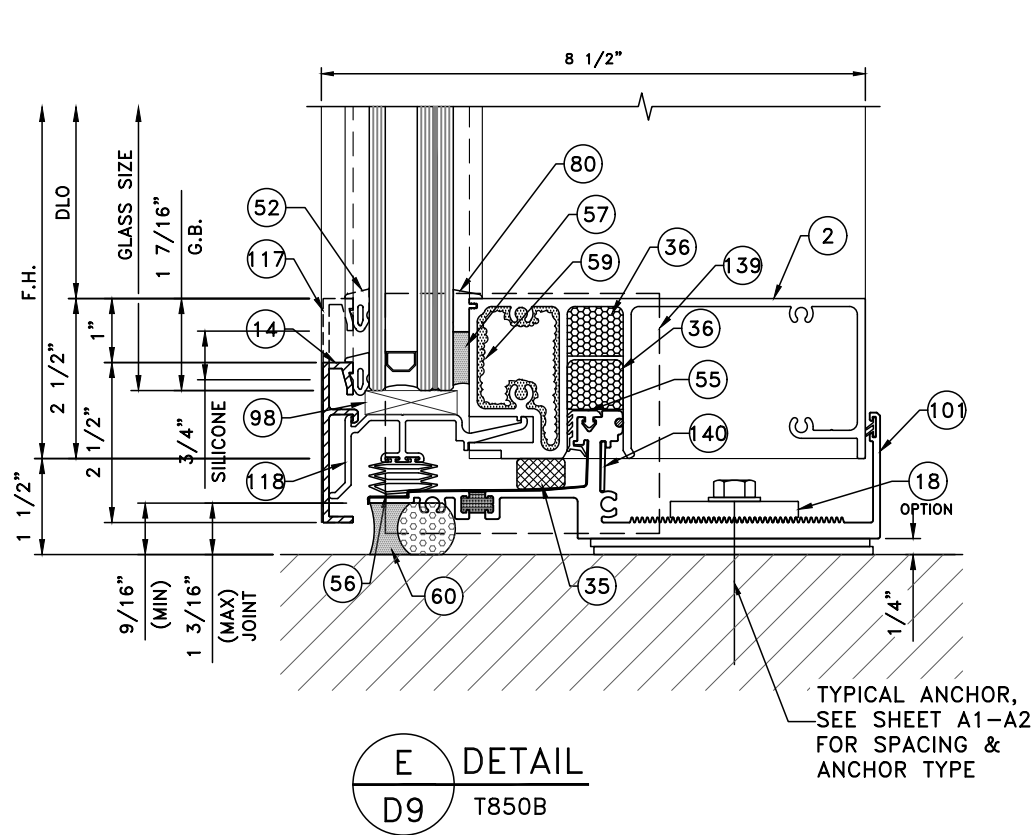
SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX:(561)225-1982

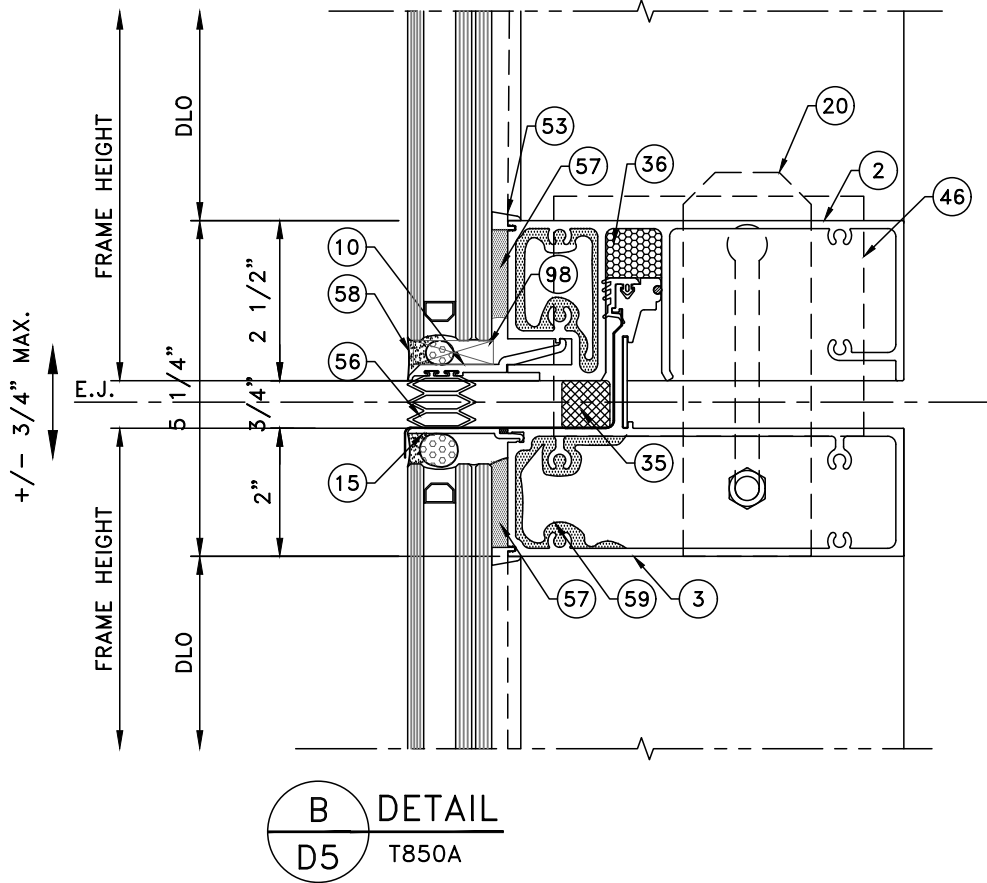
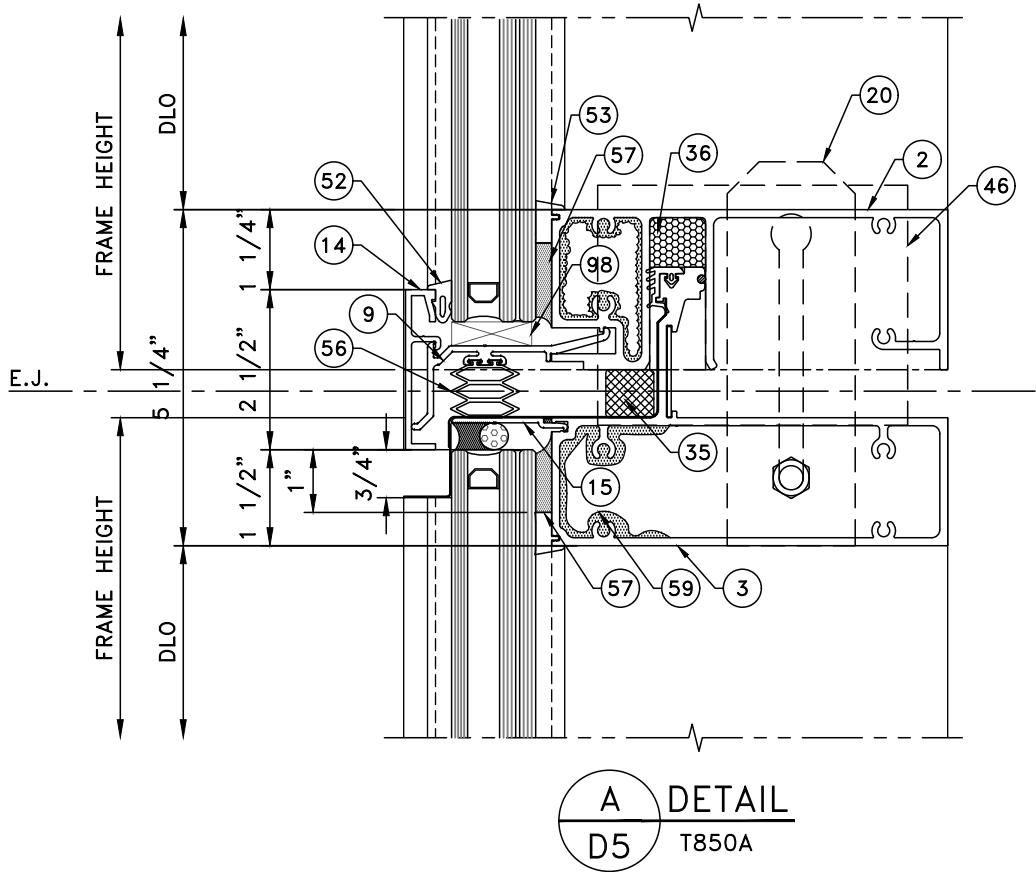
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DRAWING NO.

SHEET NO.

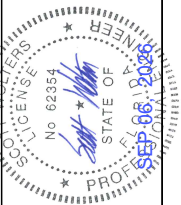


D4		DRAWING NO. AAT1-23		SHEET NO. 11 of 33		SCOTT WOLTERS FL PE# 62354		SEAL: WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 PH/FAX:(561)225-1982				T850A & T850B CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)		REVISIONS	
														1	GLASS REVISION
								DRAWN BY: HG		DATE:01/04/2024		2		CODE COMPLIANCE	
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														09-06-26	
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9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824															
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SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
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15211 97TH ROAD N
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D5

DRAWING NO.
AAT1-23

SHEET NO.
12 of 33

T850A & T850B CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)

CT WINDOWS

d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES
9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824
(407) 857-9237

REVISIONS

1 **GLASS REVISION** 08-28-24

2 **CODE COMPLIANCE** 09-06-26

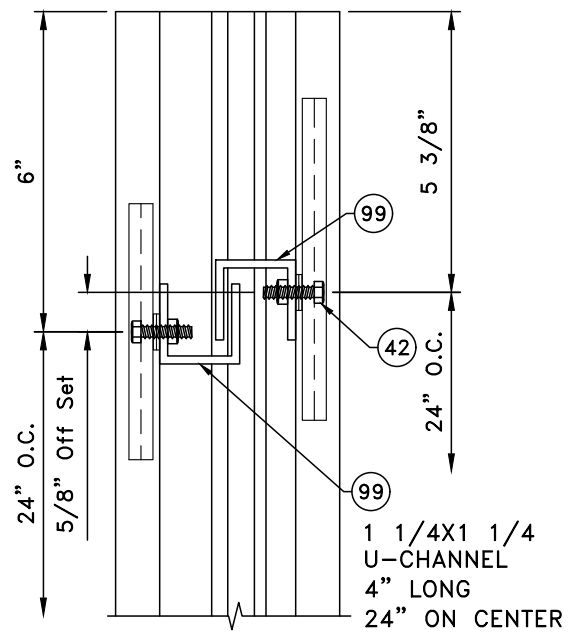
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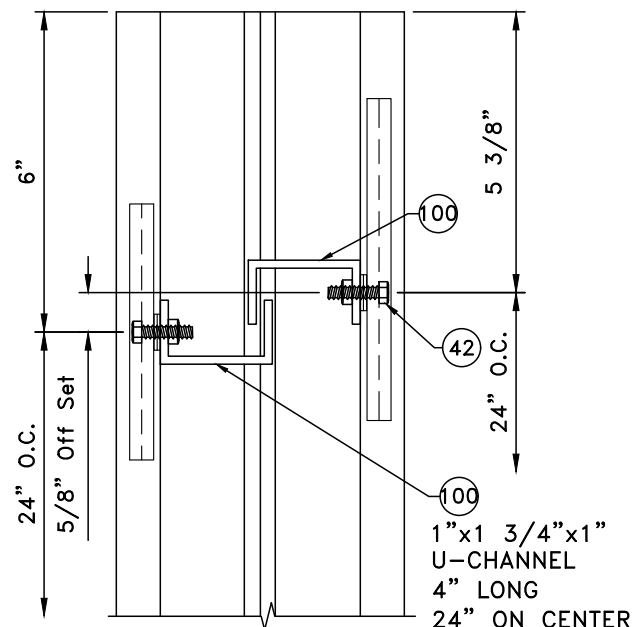
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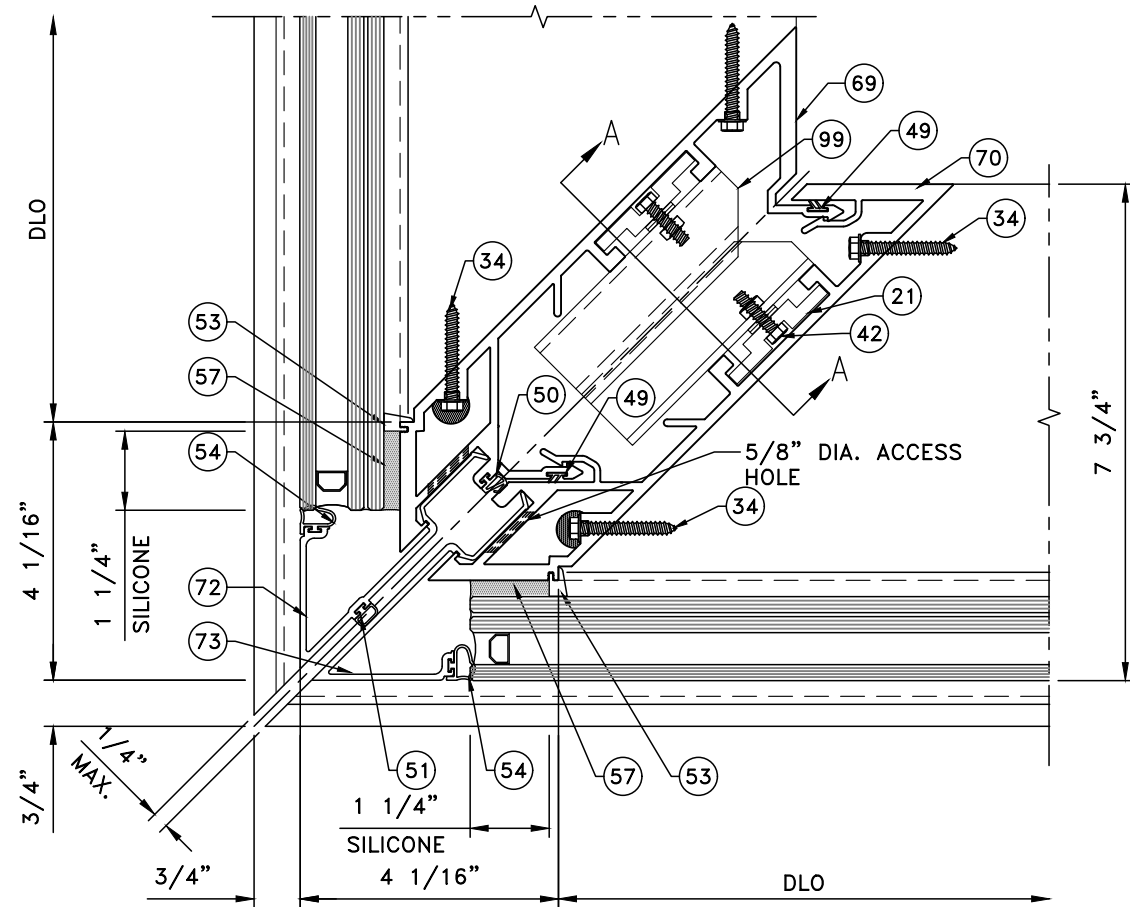
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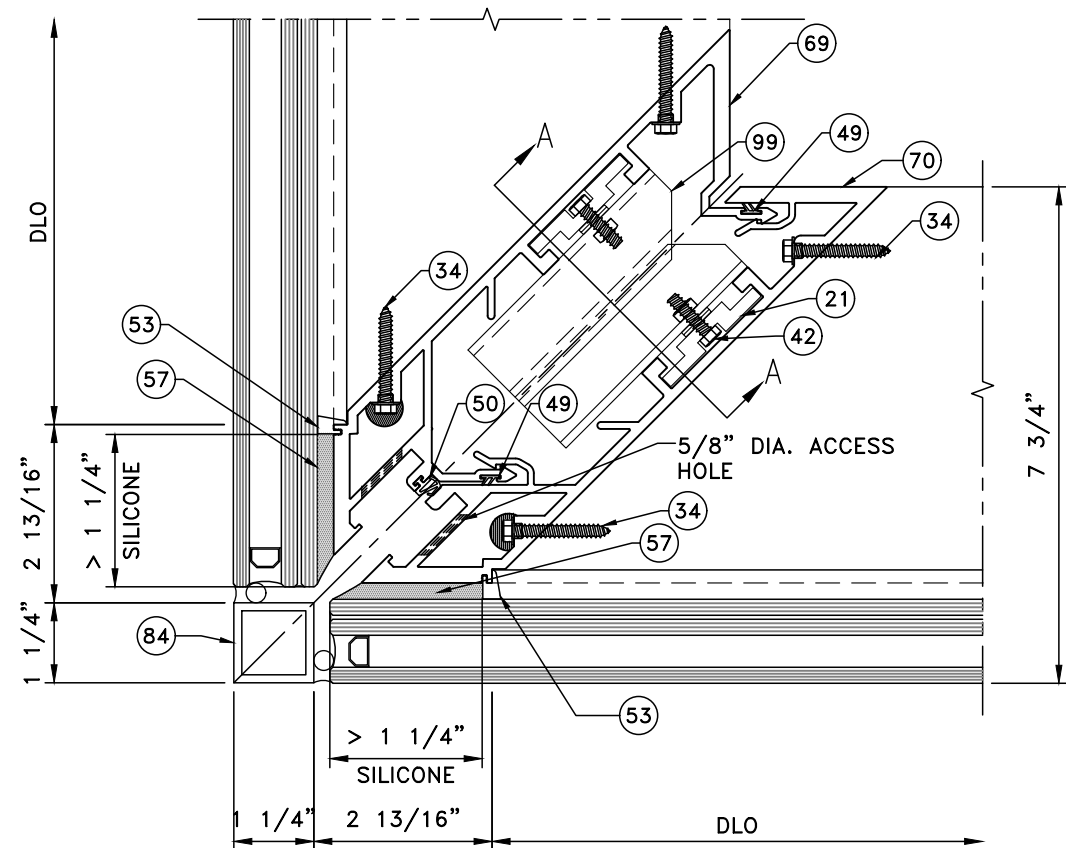
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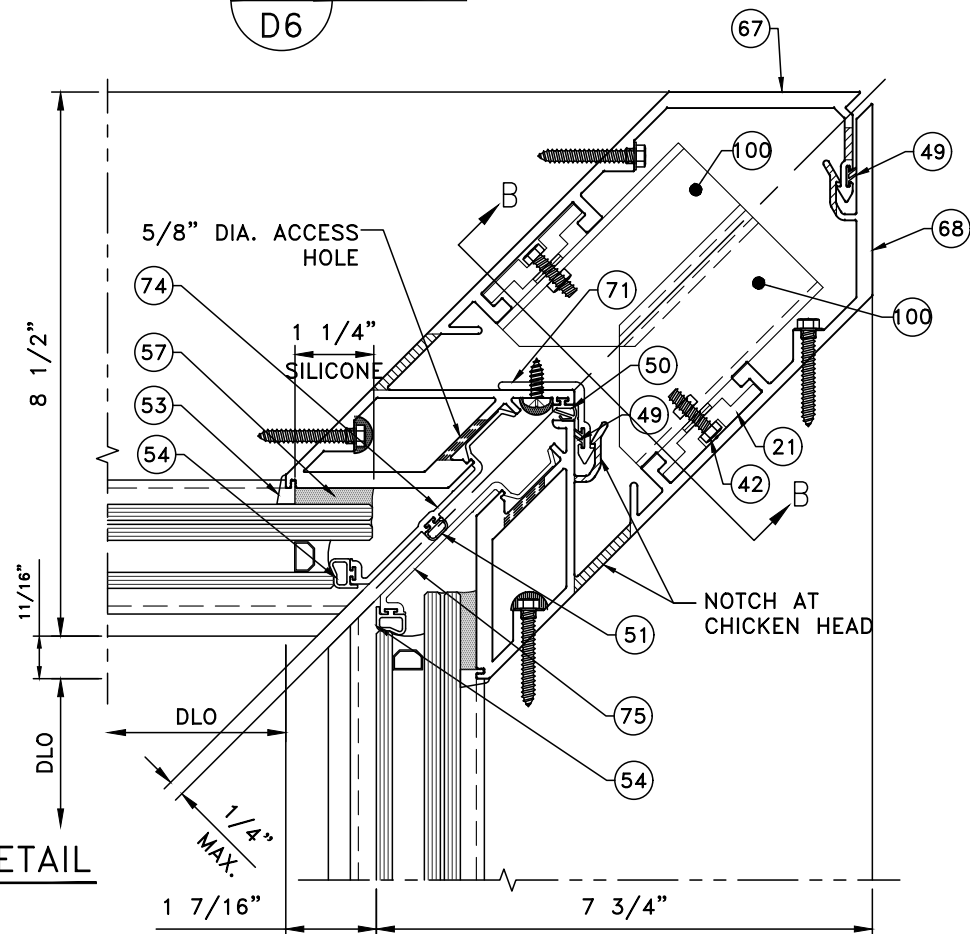
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SECTION B-B



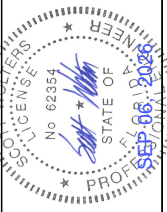
A
D6
DETAIL

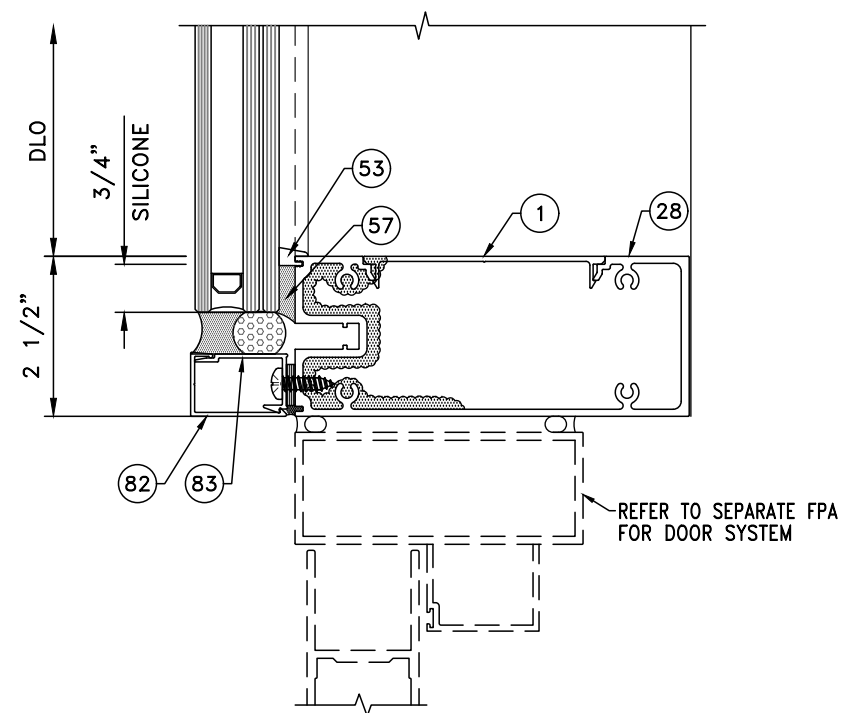
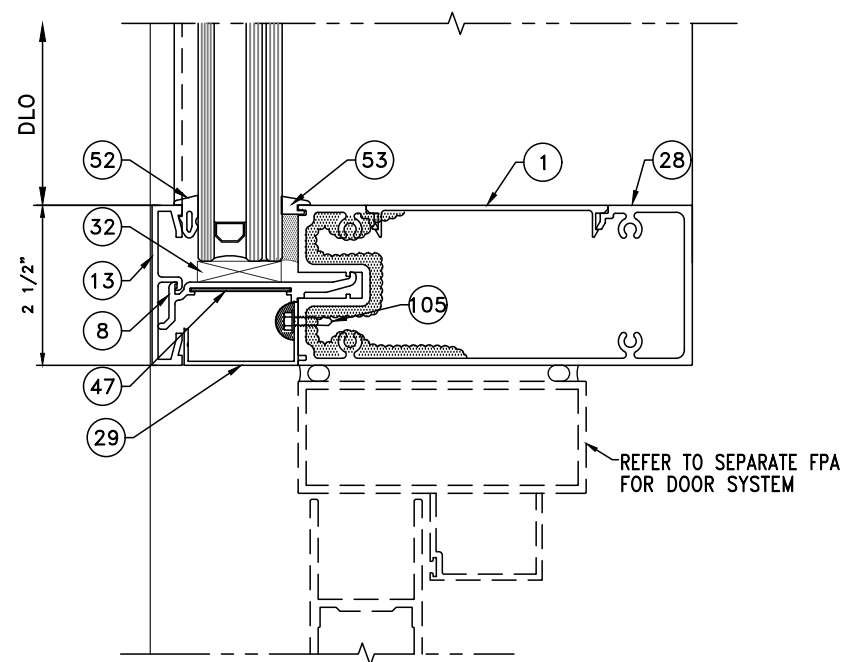
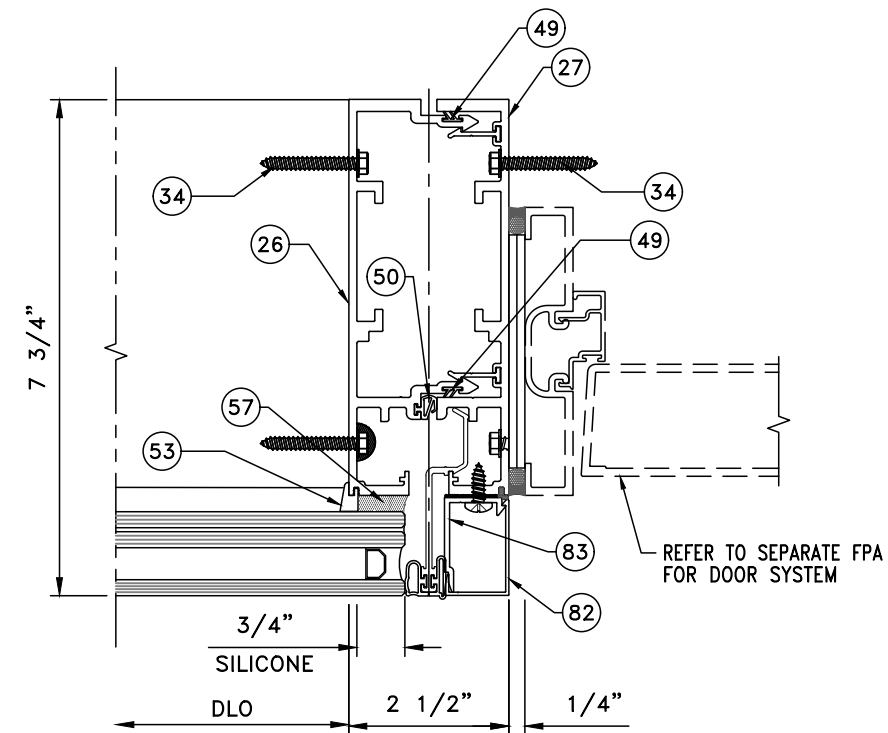
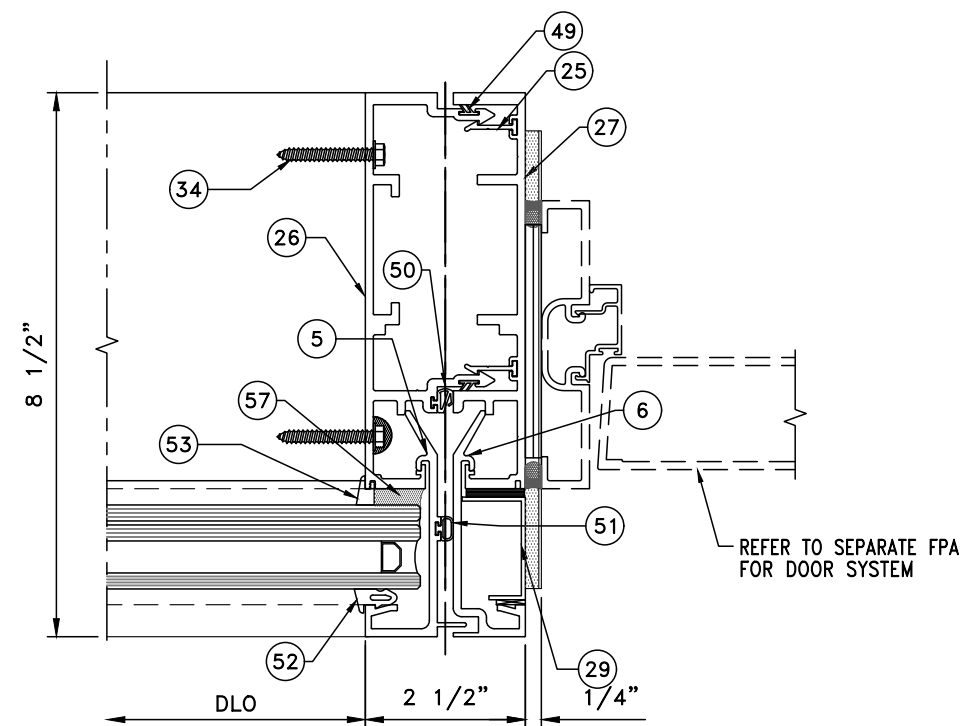


B
D6
DETAIL



C
D6
DETAIL

REVISIONS				
1	GLASS REVISION	08-28-24		
2	CODE COMPLIANCE	09-06-26		
3				
4				
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DRAWN BY: HG				
DATE: 01/04/2024				
T850A & T850B CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)				
CT WINDOWS				
d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES				
9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824				
(407) 857-9237				
				
SEAL: SCOTT WOLTERS FL PE# 62354 WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 PH/FAX: (561) 225-1982				
D6				
DRAWING NO. AAT1-23				
SHEET NO. 13 of 33				

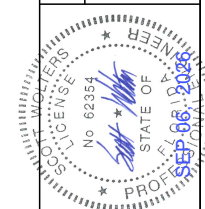


REVISIONS	
1	GLASS REVISION 08-28-24
2	CODE COMPLIANCE 09-06-26
3	
4	
5	
DRAWN BY: HG	
DATE: 01/04/2024	

T850A & T850B CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)

CT WINDOWS

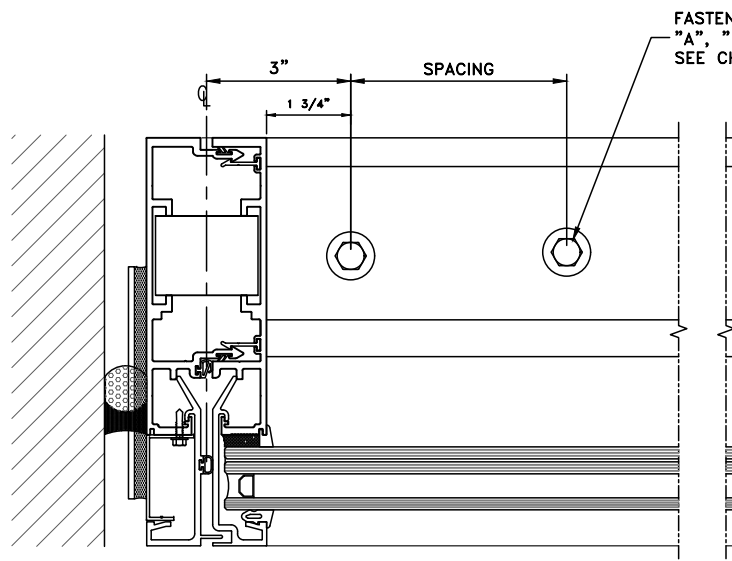
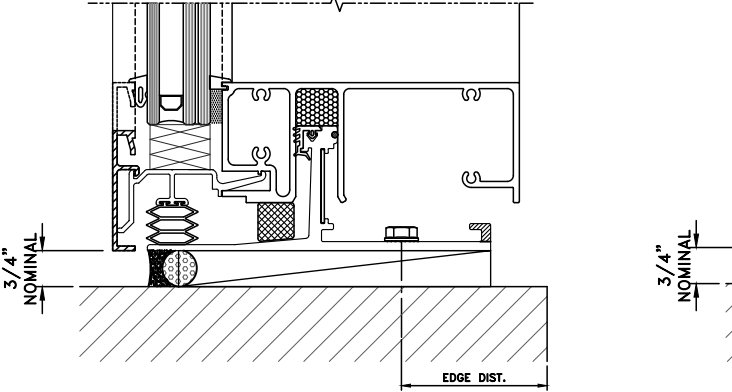
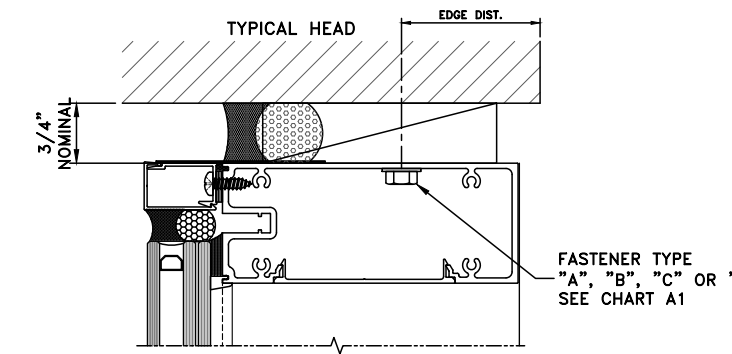
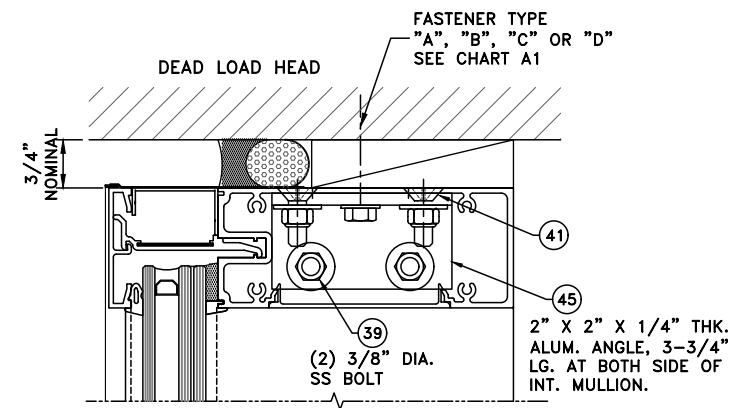
d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES
9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824
(407) 857-9237



SCOTT WOLTERS
FL PL# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX:(561)225-1982

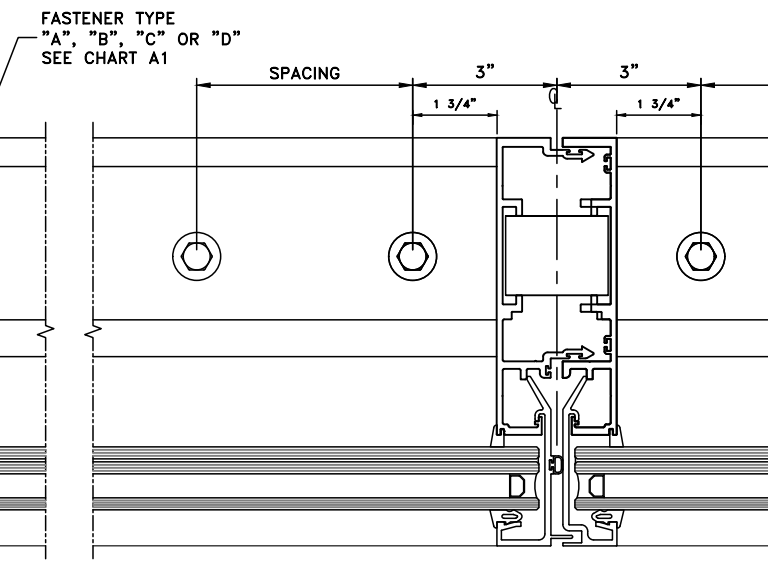
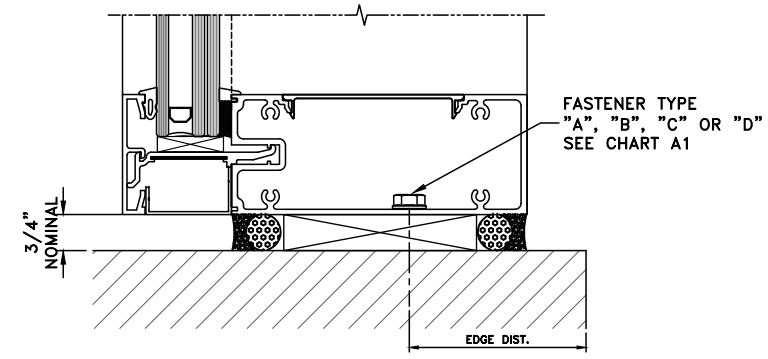
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DRAWING NO. AAT1-23
SHEET NO. 14 of 33



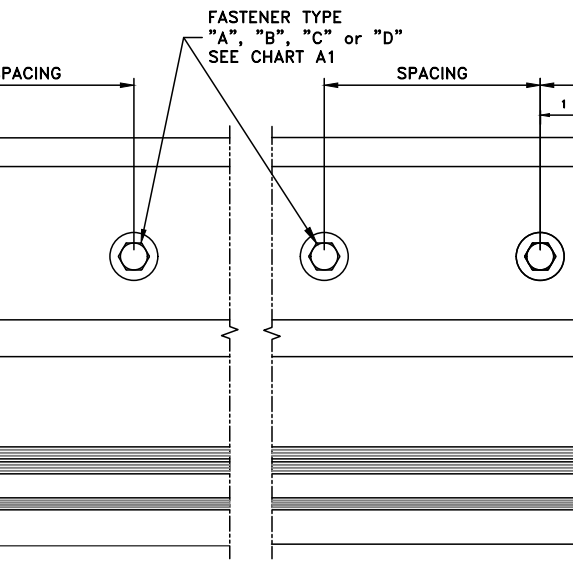
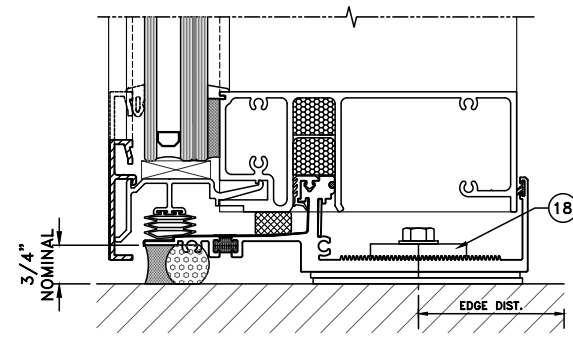
1 SECTION
A1 HEAD/SILL ANCHOR SPACING

HEAD/SILL ANCHOR CHART A1						
FASTENER TYPE	DESCRIPTION	BASE MATERIAL	EMBEDMENT (in)	EDGE DISTANCE (min)	SPACING (min)	SHIM SPACING (max) ²
A1	1/2" DIA. DeWALT TAP-FLEX (2) PER JAMB, (4) PER MULLION	STEEL (1/4", A36 min)	FULL ¹	3/4"	1 1/2"	1"
A2	1/2" DIA. F-TYPE SCREW (Gr. 5 min) ⁴ (2) PER JAMB, (4) PER MULLION		FULL ¹	3/4"	1 1/2"	1"
A3	HALFEN M12 (Gr. 8.8) T-BOLT ⁶ (2) PER JAMB, (4) PER MULLION	HALFEN HTA EMBED (SEE NOTE #3)				
A4	HILTI M12 (Gr. 8.8) T-BOLT ⁶ (2) PER JAMB, (4) PER MULLION	HILTI HAC EMBED (SEE NOTE #3)				
B1	1/2" DIA. DeWALT SCREW-BOLT + 7 (2) PER JAMB, (4) PER MULLION	CONCRETE (4000 psi min.)	2 1/2"	3"	3"	7/8"
B2	1/2" DIA. HILTI KH-EZ ⁷ (2) PER JAMB, (4) PER MULLION		2 1/2"	3"	3"	7/8"
C1	3/8" DIA. DeWALT TAP-FLEX (4) PER JAMB, (4) PER MULLION	STEEL (1/4", A36 min)	FULL ¹	5/8"	1 1/4"	1/2"
C2	3/8" DIA. F-TYPE SCREW (Gr. 5 min) ⁵ (4) PER JAMB, (4) PER MULLION		FULL ¹	5/8"	1 1/4"	1/2"
D1	3/8" DIA. DeWALT SCREW-BOLT + 7 (2) PER JAMB, (4) PER MULLION	CONCRETE (4000 psi min.)	3 1/4"	3"	2 1/2"	7/16"
D2	3/8" DIA. HILTI KH-EZ ⁷ (4) PER JAMB, (4) PER MULLION		2 1/2"	3"	2 1/2"	7/16"

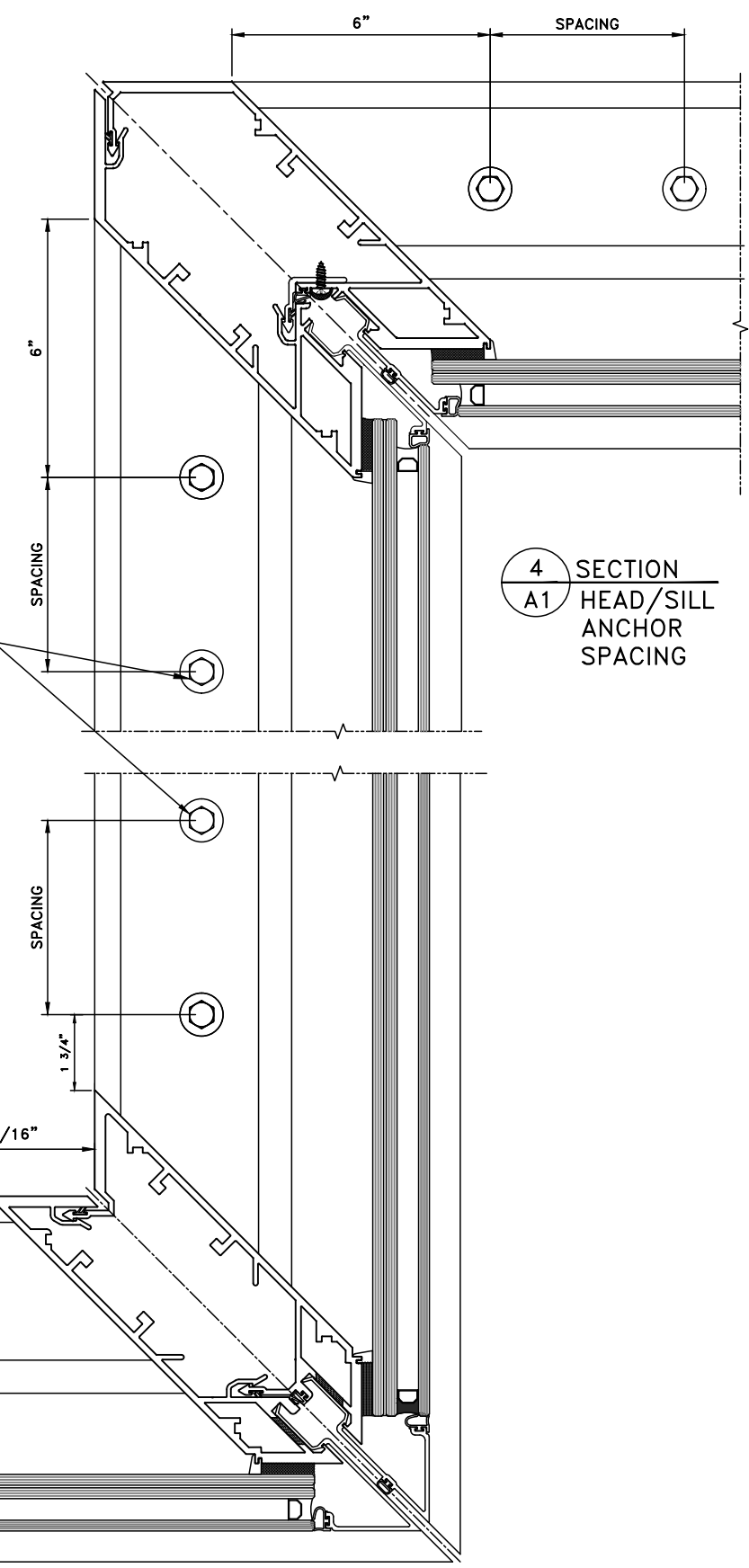
- NOTES:
- FASTENERS MUST FULLY PENETRATE THE WALL THICKNESS OF THE STEEL, WITH (3) ADDITIONAL THREADS BEYOND (min).
 - THE MAX SHIM GAPS SHOWN ARE BASED ON THE MAXIMUM REACTIONS. LARGER SHIM GAPS MAY BE ALLOWED PER PROJECT SPECIFIC CALCULATIONS BY A FLORIDA LICENSED ENGINEER.
 - THE DESIGN OF CONCRETE EMBEDS IS NOT A PART OF THIS EVALUATION. EMBEDS MUST BE REVIEWED AND APPROVED PER PROJECT SPECIFIC CALCULATIONS BY A FLORIDA LICENSED ENGINEER.
- CORROSION NOTES:
- WITHIN 3000 FT OF SALTWATER COASTLINE:
- 1/2" DIA. F-TYPE SCREWS MUST BE EITHER GALVANIZED TO MEET ASTM A153 CLASS C, or 300 SERIES STAINLESS STEEL WITH F_u=120 ksi (min).
 - 3/8" DIA. F-TYPE SCREWS MUST BE EITHER GALVANIZED TO MEET ASTM A153 CLASS D, or 300 SERIES STAINLESS STEEL WITH F_u=120 ksi (min).
 - T-BOLTS MUST BE M12 Gr. A4-70 (HALFEN) or M12 Gr. 50R (HILTI) STAINLESS STEEL.
 - ONLY MECHANICALLY GALVANIZED VERSIONS OF SCREW-BOLT+ (MG) or KH-EZ (CRC) MAY BE USED.
 - DeWALT TAP-FLEX FASTENERS WITH STALGARD COATING MEET THE REQUIREMENTS OF FBC SECTION 1711.1.1.2.



2 SECTION
A1 HEAD/SILL ANCHOR SPACING



3 SECTION
A1 HEAD/SILL ANCHOR SPACING



4 SECTION
A1 HEAD/SILL ANCHOR SPACING

REVISIONS

1	GLASS REVISION	08-28-24
2	CODE COMPLIANCE	09-06-26
3		
4		
5		

DRAWN BY: HG

DATE: 01/04/2024

T850A & T850B CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)

CT WINDOWS

d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES

9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824

(407) 857-9237

SEAL:

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX: (561) 225-1982

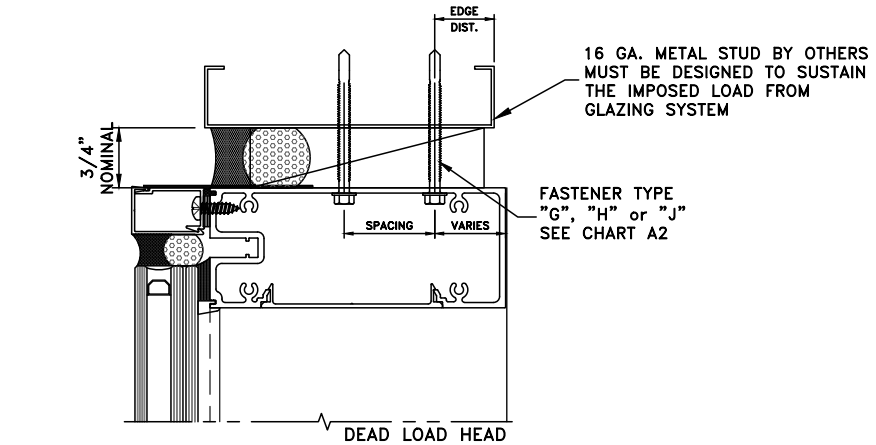
SEP 06 2026

A1

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AAT1-23

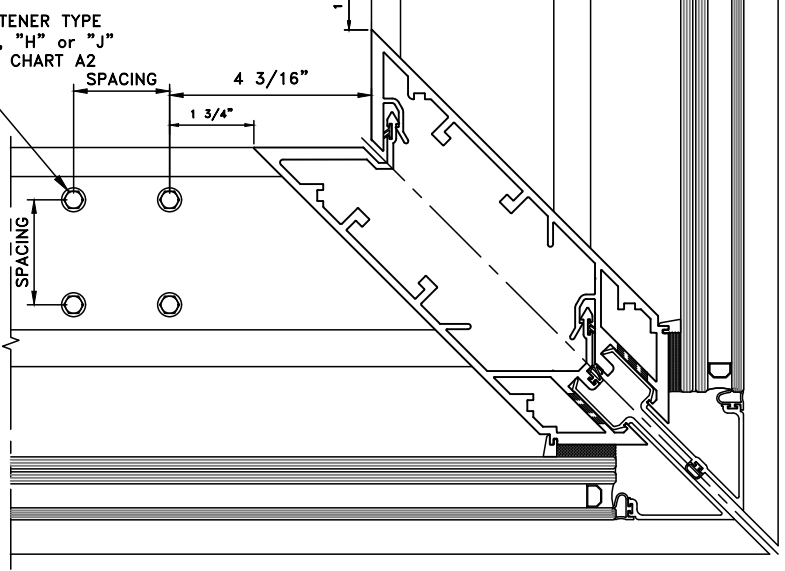
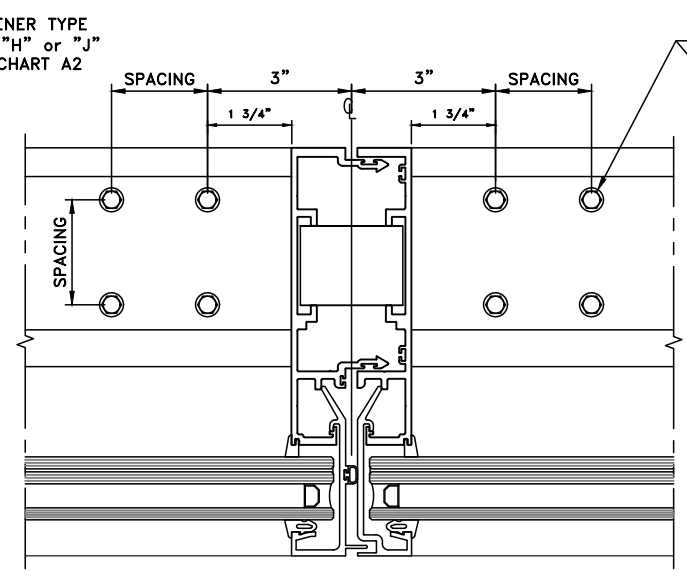
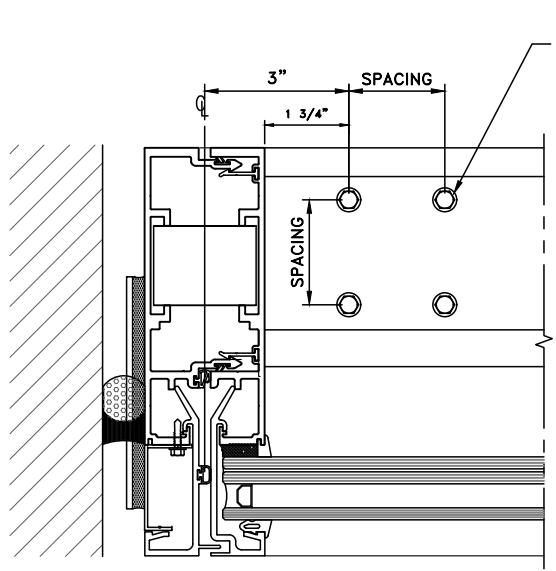
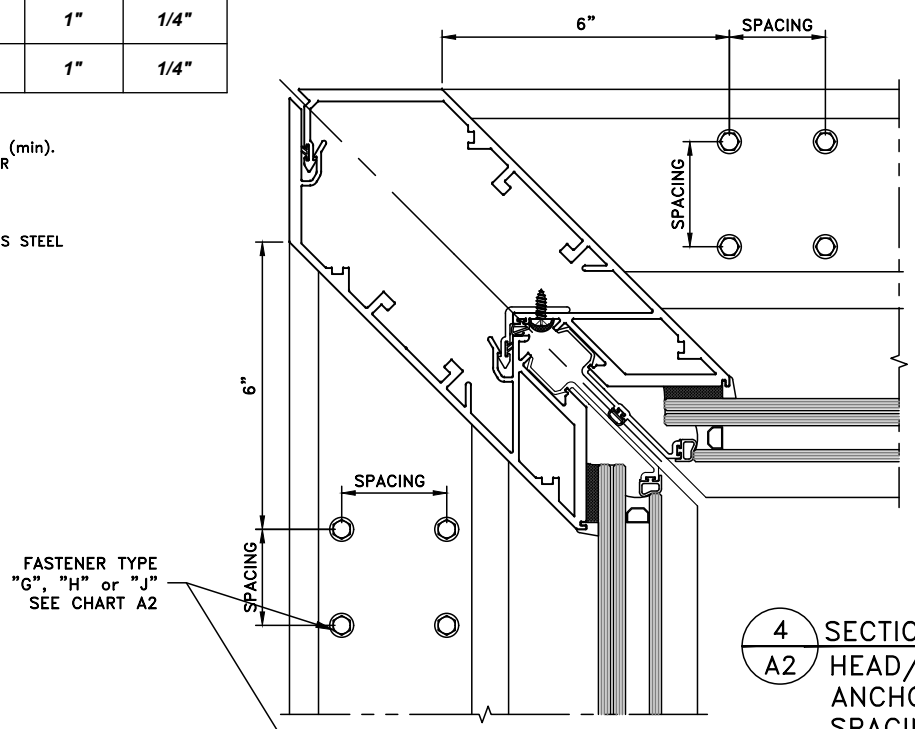
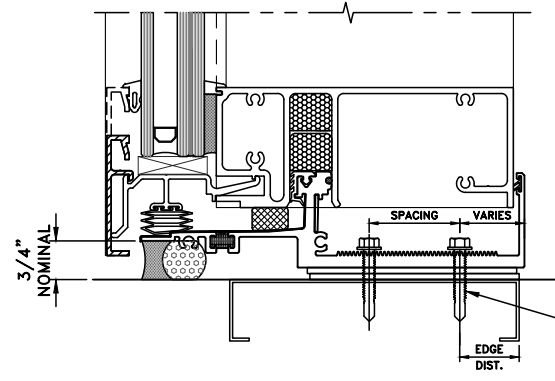
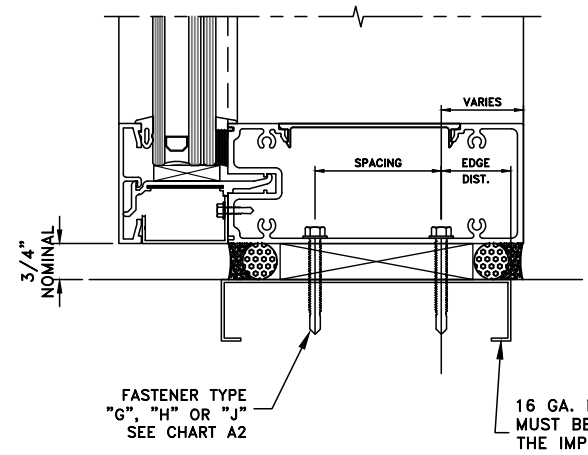
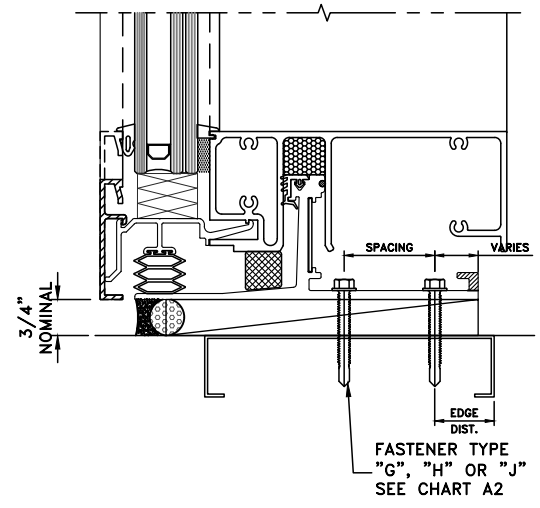
SHEET NO.
15 of 33

NOTE:
1. MAXIMUM SHIM SPACE IS THE RESPONSIBILITY OF THE
DELEGATED FL LICENSED ENGINEER FOR EACH PROJECT.



HEAD/SILL ANCHOR CHART A2						
FASTENER TYPE	DESCRIPTION	BASE MATERIAL	EMBEDMENT (in)	EDGE DISTANCE (min)	SPACING (min)	SHIM SPACING (min) ²
G1	5/16" DIA. DeWALT DRIL-FLEX (4) PER JAMB, (8) PER MULLION	STEEL (16 Ga, F _{UT} = 45 ksi min)	FULL ¹	1/2"	1"	5/8"
G2	5/16" DIA. HHSM SCREW (Gr. 5 min) ³ (4) PER JAMB, (8) PER MULLION			1/2"	1"	5/8"
H	1/4" DIA. DeWALT DRIL-FLEX (4) PER JAMB, (8) PER MULLION			1/2"	1"	1/4"
J	1/4" DIA. TEKS-TYPE SCREW (Gr. 5 min) ³ (4) PER JAMB, (8) PER MULLION			1/2"	1"	1/4"

NOTES:
1. FASTENERS MUST FULLY PENETRATE THE WALL THICKNESS OF THE STEEL, WITH (3) ADDITIONAL THREADS BEYOND (min).
2. THE MAX SHIM GAPS SHOWN ARE BASED ON THE MAXIMUM REACTIONS. LARGER SHIM GAPS MAY BE ALLOWED PER PROJECT SPECIFIC CALCULATIONS BY A FLORIDA LICENSED ENGINEER.
CORROSION NOTES:
WITHIN 3000 ft OF SALTWATER COASTLINE:
3. HHSM AND TEKS SCREWS MUST BE EITHER GALVANIZED TO MEET ASTM A153 CLASS D, OR 300 SERIES STAINLESS STEEL WITH F_{UT}=120 ksi (min).
4. DeWALT DRIL-FLEX FASTENERS WITH STALGARD COATING MEET THE REQUIREMENTS OF FBC SECTION 1711.1.1.2.



1 SECTION
A2 HEAD/SILL ANCHOR SPACING

2 SECTION
A2 HEAD/SILL ANCHOR SPACING

3 SECTION
A2 HEAD/SILL ANCHOR SPACING

4 SECTION
A2 HEAD/SILL ANCHOR SPACING

REVISIONS

1	GLASS REVISION	08-28-24
2	CODE COMPLIANCE	09-06-26
3		
4		
5		

DRAWN BY: HG
DATE: 01/04/2024

T850A & T850B CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)

CT WINDOWS

d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES

9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824

(407) 857-9237

SEAL:
SCOTT WOLTERS
FL PE# 62354

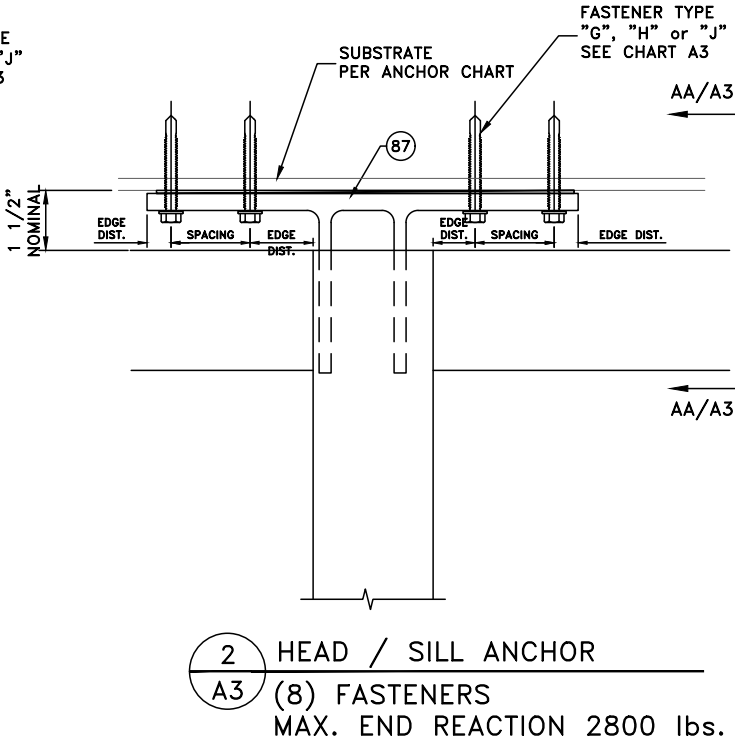
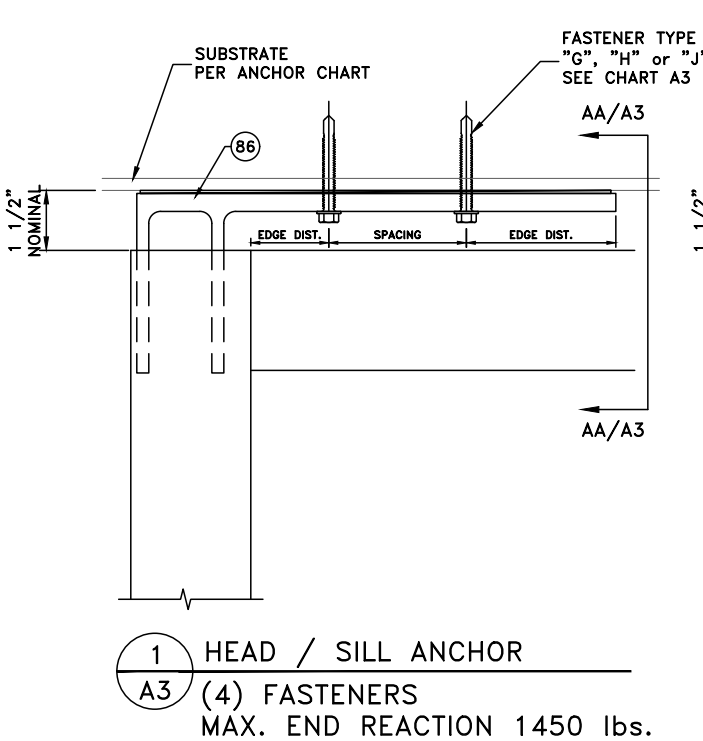
WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX: (561) 225-1982

SEP 06 2023

A2

DRAWING NO.
AAT1-23

SHEET NO.
16 of 33



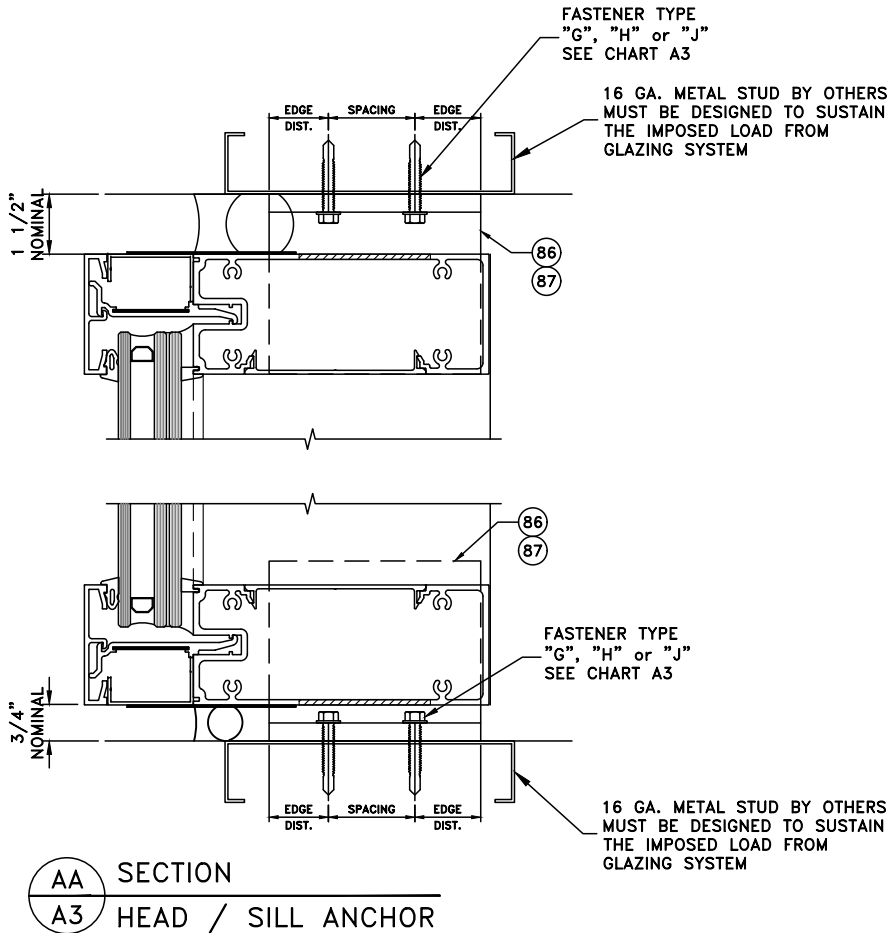
NOTE:
1. MAXIMUM SHIM SPACE IS THE RESPONSIBILITY OF THE
DELEGATED FL LICENSED ENGINEER FOR EACH PROJECT.

HEAD/SILL ANCHOR CHART A3					
FASTENER TYPE	DESCRIPTION	BASE MATERIAL	EMBEDMENT (in)	EDGE DISTANCE (min)	SPACING (min)
G1	5/16" DIA. DeWALT DRIL-FLEX (4) PER JAMB, (8) PER MULLION	STEEL (16 Ga, F _{UT} = 45 ksi min)	FULL ¹	1/2"	1"
G2	5/16" DIA. HHSM SCREW (Gr. 5 min) ² (4) PER JAMB, (8) PER MULLION			1/2"	1"
H	1/4" DIA. DeWALT DRIL-FLEX (4) PER JAMB, (8) PER MULLION			1/2"	1"
J	1/4" DIA. TEKS-TYPE SCREW (Gr. 5 min) ² (4) PER JAMB, (8) PER MULLION			1/2"	1"

- NOTES:
1. FASTENERS MUST FULLY PENETRATE THE WALL THICKNESS OF THE STEEL, WITH (3) ADDITIONAL THREADS BEYOND (min).
CORROSION NOTES:
WITHIN 3000 ft of SALTWATER COASTLINE:
2. HHSM AND TEKS SCREWS MUST BE EITHER GALVANIZED TO MEET ASTM A153 CLASS D, OR 300 SERIES STAINLESS STEEL WITH F_{UT}=120 ksi (min).
3. DeWALT DRIL-FLEX FASTENERS WITH STALGARD COATING MEET THE REQUIREMENTS OF FBC SECTION 1711.1.1.2.

CHART A3b	
MAX CAULK JOINT WIDTH	MAX MULLION END REACTION
3/4"	2800 LB **
1"	2300 LB
1 1/2"	1700 LB

** MAX REACTION FOR ALL MULLION CONFIGURATIONS.



REVISIONS

1	GLASS REVISION	08-28-24
2	CODE COMPLIANCE	09-06-26
3		
4		
5		

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DATE:01/04/2024

T850A & T850B CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)

CT WINDOWS

d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES

9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824

(407) 857-9237

SEAL:

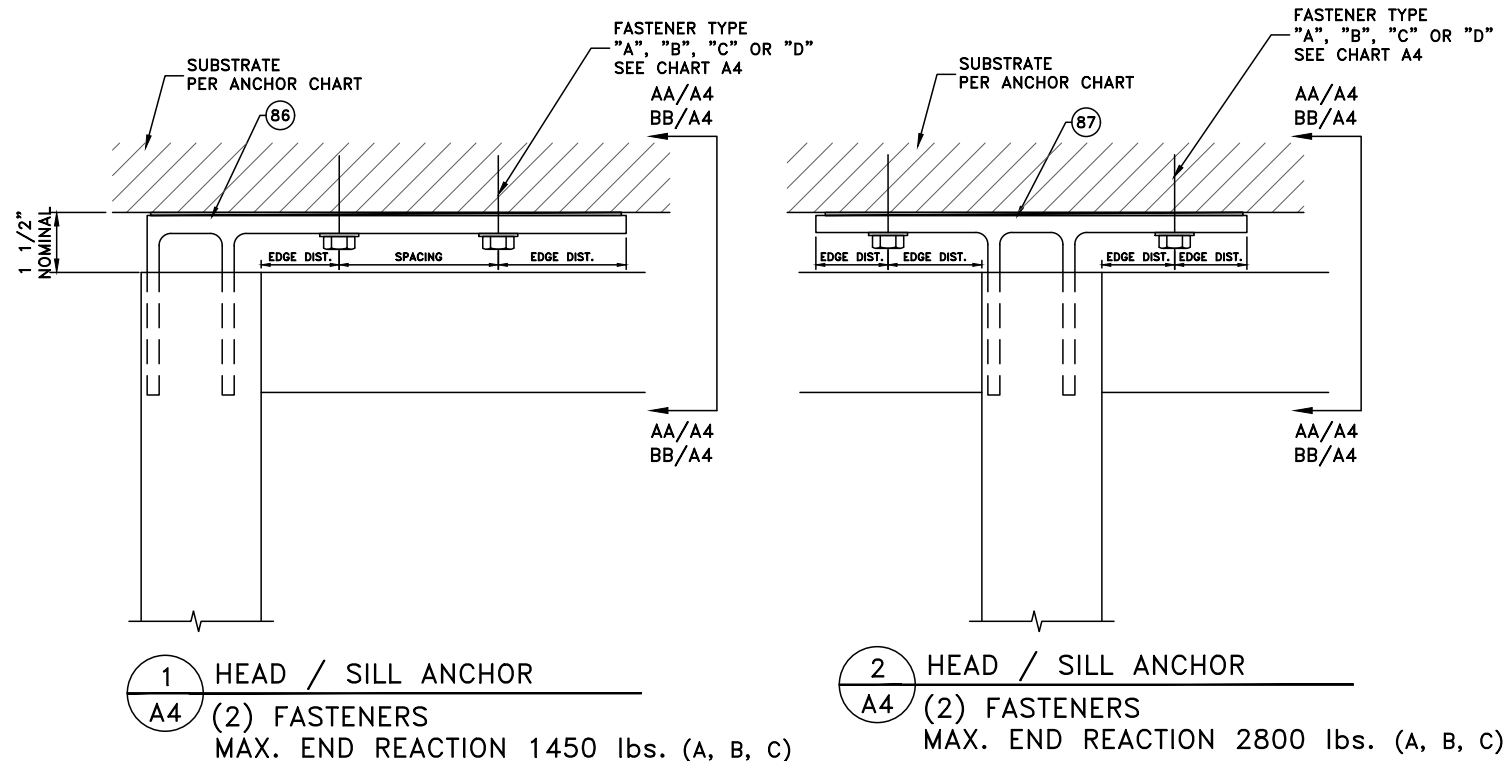
SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX:(561)225-1982

A3

DRAWING NO.
AAT1-23

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17 of 33

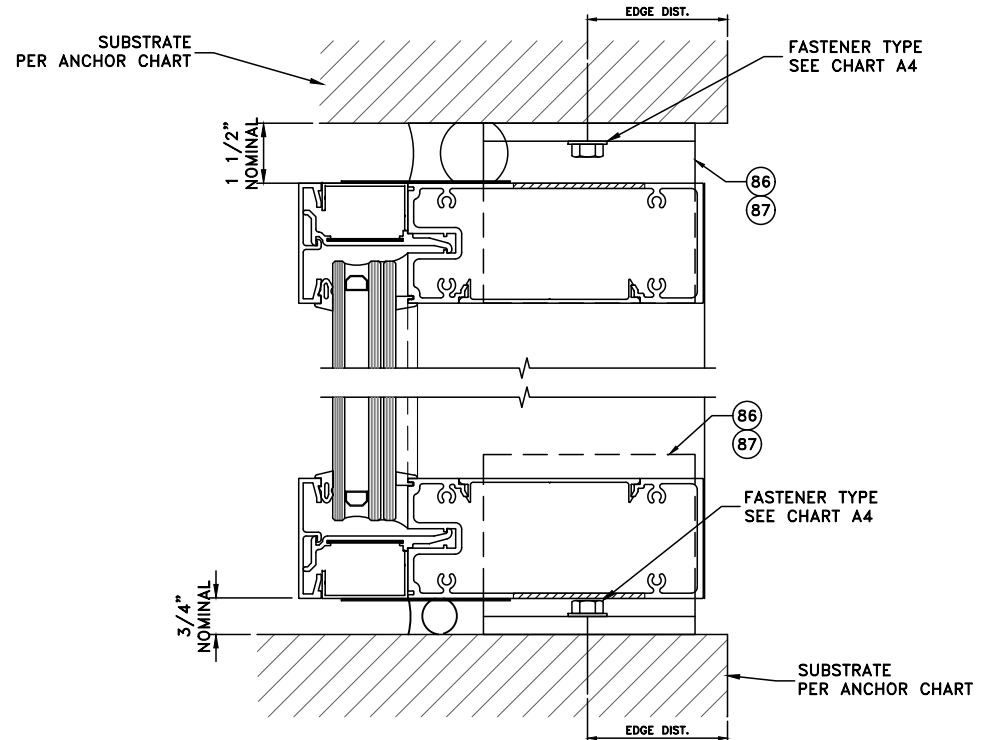


1 HEAD / SILL ANCHOR
A4 (2) FASTENERS
MAX. END REACTION 1450 lbs. (A, B, C)

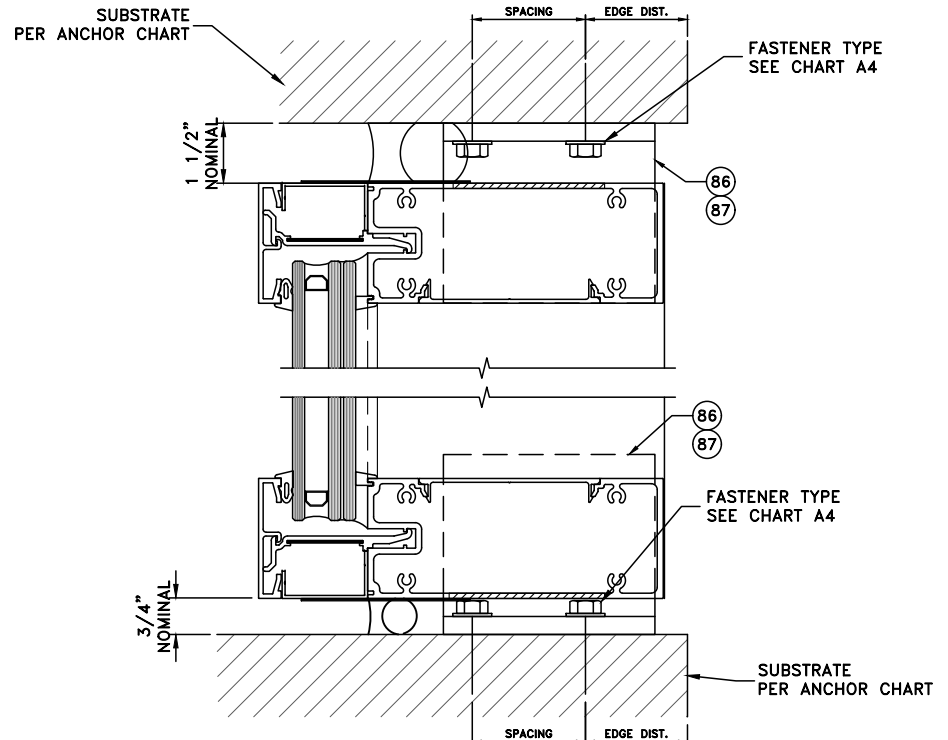
2 HEAD / SILL ANCHOR
A4 (2) FASTENERS
MAX. END REACTION 2800 lbs. (A, B, C)

HEAD/SILL ANCHOR CHART A4					
FASTENER TYPE	DESCRIPTION	BASE MATERIAL	EMBEDMENT (in)	EDGE DISTANCE (min)	SPACING (min)
A1	1/2" DIA. DeWALT TAP-FLEX (2) PER JAMB, (4) PER MULLION	STEEL (1/4", A36 min)	FULL ¹	3/4"	1 1/2"
A2	1/2" DIA. F-TYPE SCREW (Gr. 5 min) ³ (2) PER JAMB, (4) PER MULLION		FULL ¹	3/4"	1 1/2"
A3	HALFEN M12 (Gr. 8.8) T-BOLT ⁵ (2) PER JAMB, (4) PER MULLION	HALFEN HTA EMBED (SEE NOTE #2)			
A4	HILTI M12 (Gr. 8.8) T-BOLT ⁵ (2) PER JAMB, (4) PER MULLION	HILTI HAC EMBED (SEE NOTE #2)			
B1	1/2" DIA. DeWALT SCREW-BOLT + ⁶ (2) PER JAMB, (4) PER MULLION	CONCRETE (4000 psi min.)	2 1/2"	3"	3"
B2	1/2" DIA. HILTI KH-EZ ⁶ (2) PER JAMB, (4) PER MULLION		2 1/2"	3"	3"
C1	3/8" DIA. DeWALT TAP-FLEX (4) PER JAMB, (4) PER MULLION	STEEL (1/4", A36 min)	FULL ¹	5/8"	1 1/4"
C2	3/8" DIA. F-TYPE SCREW (Gr. 5 min) ⁴ (4) PER JAMB, (4) PER MULLION		FULL ¹	5/8"	1 1/4"
D1	3/8" DIA. DeWALT SCREW-BOLT + ⁴ (2) PER JAMB, (4) PER MULLION	CONCRETE (4000 psi min.)	3 1/4"	3"	2 1/2"
D2	3/8" DIA. HILTI KH-EZ ⁶ (4) PER JAMB, (4) PER MULLION		2 1/2"	3"	2 1/2"

- NOTES:
- FASTENERS MUST FULLY PENETRATE THE WALL THICKNESS OF THE STEEL, WITH (3) ADDITIONAL THREADS BEYOND (min).
 - THE DESIGN OF CONCRETE EMBEDS IS NOT A PART OF THIS EVALUATION. EMBEDS MUST BE REVIEWED AND APPROVED PER PROJECT SPECIFIC CALCULATIONS BY A FLORIDA LICENSED ENGINEER.
- CORROSION NOTES:
- WITHIN 3000 ft of SALTWATER COASTLINE:
- 1/2" DIA. F-TYPE SCREWS MUST BE EITHER GALVANIZED TO MEET ASTM A153 CLASS C, or 300 SERIES STAINLESS STEEL WITH $F_{ur}=120$ ksi (min).
 - 3/8" DIA. F-TYPE SCREWS MUST BE EITHER GALVANIZED TO MEET ASTM A153 CLASS D, or 300 SERIES STAINLESS STEEL WITH $F_{ur}=120$ ksi (min).
 - T-BOLTS MUST BE M12 Gr. A4-70 (HALFEN) or M12 Gr. 50R (HILTI) STAINLESS STEEL.
 - ONLY MECHANICALLY GALVANIZED VERSIONS OF SCREW-BOLT+ (MG) or KH-EZ (CRC) MAY BE USED.
 - DeWALT TAP-FLEX FASTENERS WITH STALGARD COATING MEET THE REQUIREMENTS OF FBC SECTION 1711.1.1.2.



AA SECTION
A4 HEAD / SILL ANCHOR



BB SECTION
A4 HEAD / SILL ANCHOR

REVISIONS

GLASS REVISION	08-28-24			
CODE COMPLIANCE	09-06-26			
1	2	3	4	5

DRAWN BY: HG

DATE: 01/04/2024

T850A & T850B CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)

CT WINDOWS

d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES

9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824

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FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX: (561) 225-1982

SEAL:

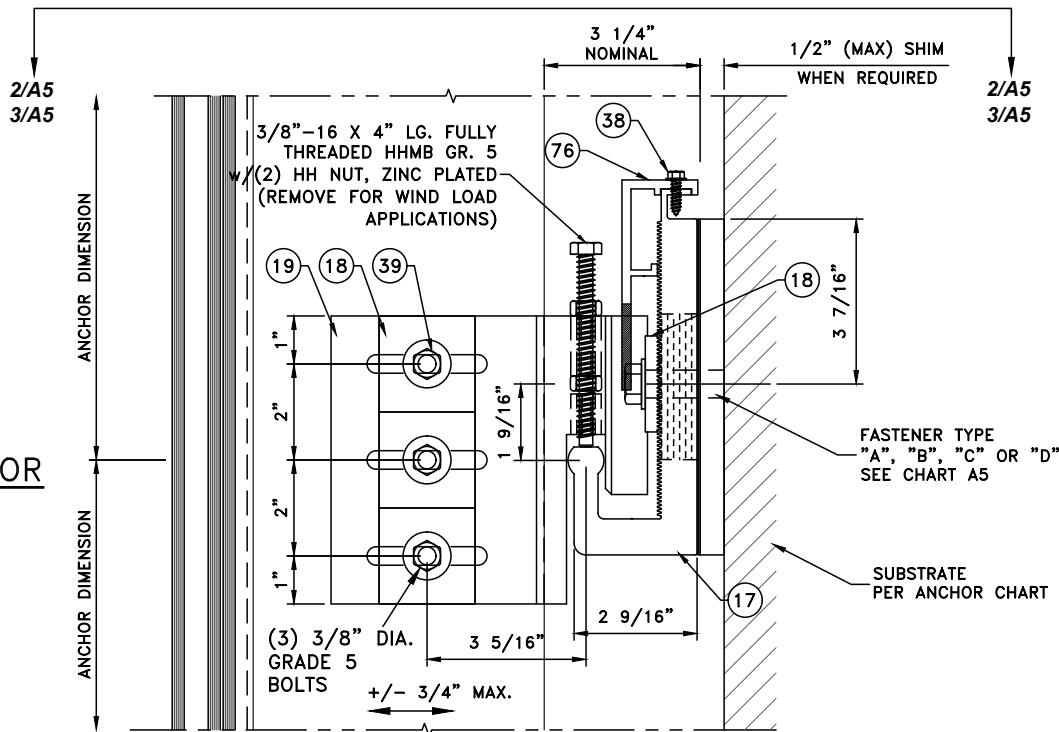
SEP 06 2026

A4

DRAWING NO.
AAT1-23

SHEET NO.
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1 J-HOOK ANCHOR
A5 INTERMEDIATE
ANCHOR



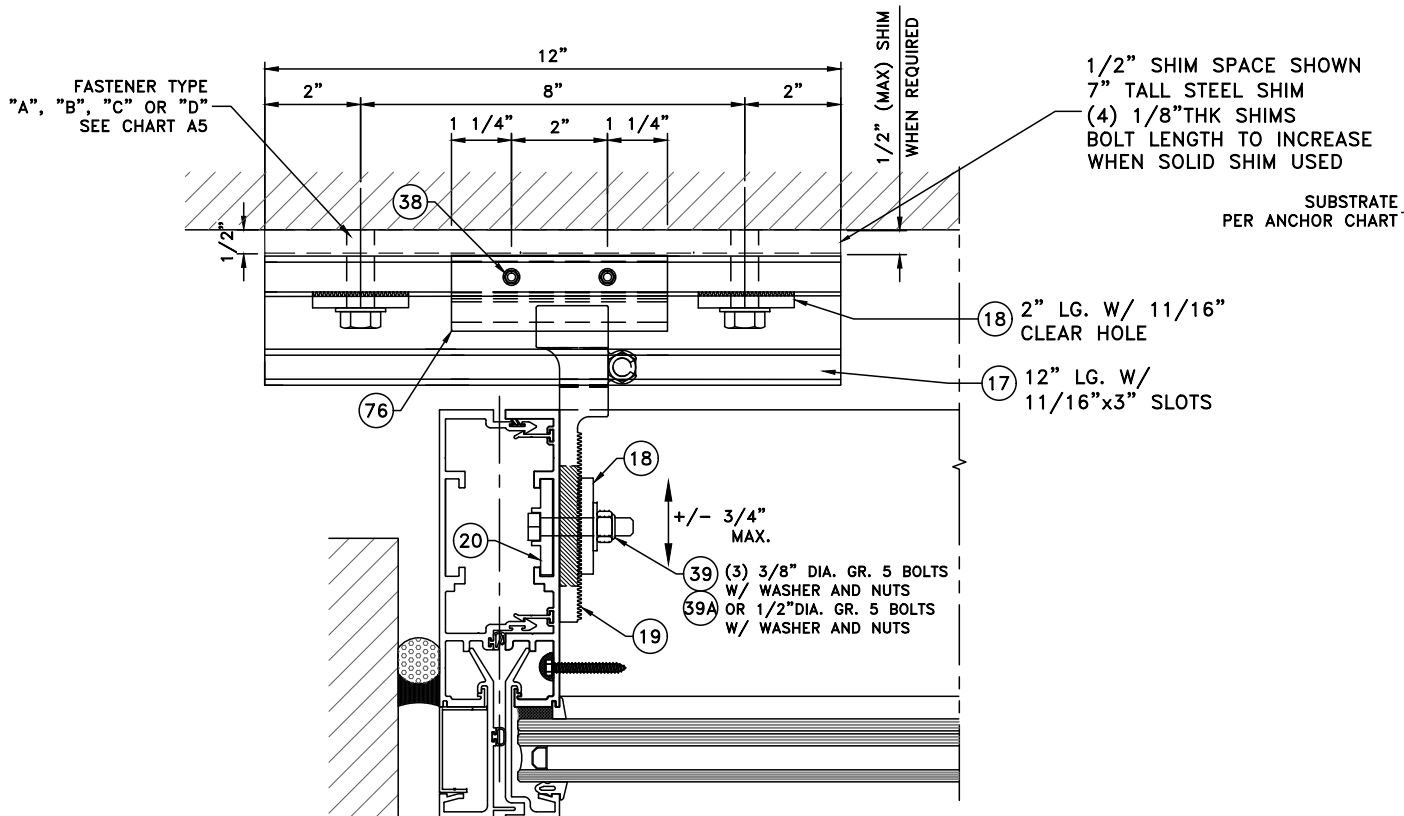
MID-SPAN ANCHOR CHART A5				
FASTENER TYPE	DESCRIPTION	BASE MATERIAL	EMBEDMENT (in)	EDGE DISTANCE (min)
A1	5/8" DIA. DeWALT TAP-FLEX (2) PER JAMB, (2) PER MULLION	STEEL (1/4", F _{UT} =65 ksi min)	FULL ¹	1 1/4"
A2	5/8" DIA. F-TYPE SCREW (Gr. 5 min) ⁴ (2) PER JAMB, (2) PER MULLION		FULL ¹	1 1/4"
A3	HALFEN M16 (Gr. 8.8) T-BOLT ⁵ (2) PER JAMB, (2) PER MULLION	HALFEN HTA EMBED (SEE NOTE #2)		
A4	HILTI M12 (Gr. 8.8) T-BOLT ⁵ (2) PER JAMB, (2) PER MULLION	HILTI HAC EMBED (SEE NOTE #2)		
B1	5/8" DIA. DeWALT SCREW-BOLT + ⁶ (2) PER JAMB, (2) PER MULLION	CONCRETE (4000 psi min.)	4"	6"
B2	5/8" DIA. HILTI KH-EZ ⁶ (2) PER JAMB, (2) PER MULLION		5"	5"
C1	1/2" DIA. DeWALT TAP-FLEX (4) PER JAMB, (4) PER MULLION	STEEL (3/8", F _{UT} =65 ksi min) ³	FULL ¹	1"
C2	1/2" DIA. F-TYPE SCREW (Gr. 5 min) ⁴ (4) PER JAMB, (4) PER MULLION		FULL ¹	1"
D1	1/2" DIA. DeWALT SCREW-BOLT + ⁶ (2) PER JAMB, (2) PER MULLION	CONCRETE (4000 psi min.)	4 1/4"	6"
D2	1/2" DIA. HILTI KH-EZ ⁶ (2) PER JAMB, (2) PER MULLION		4 1/4"	6"

NOTES:

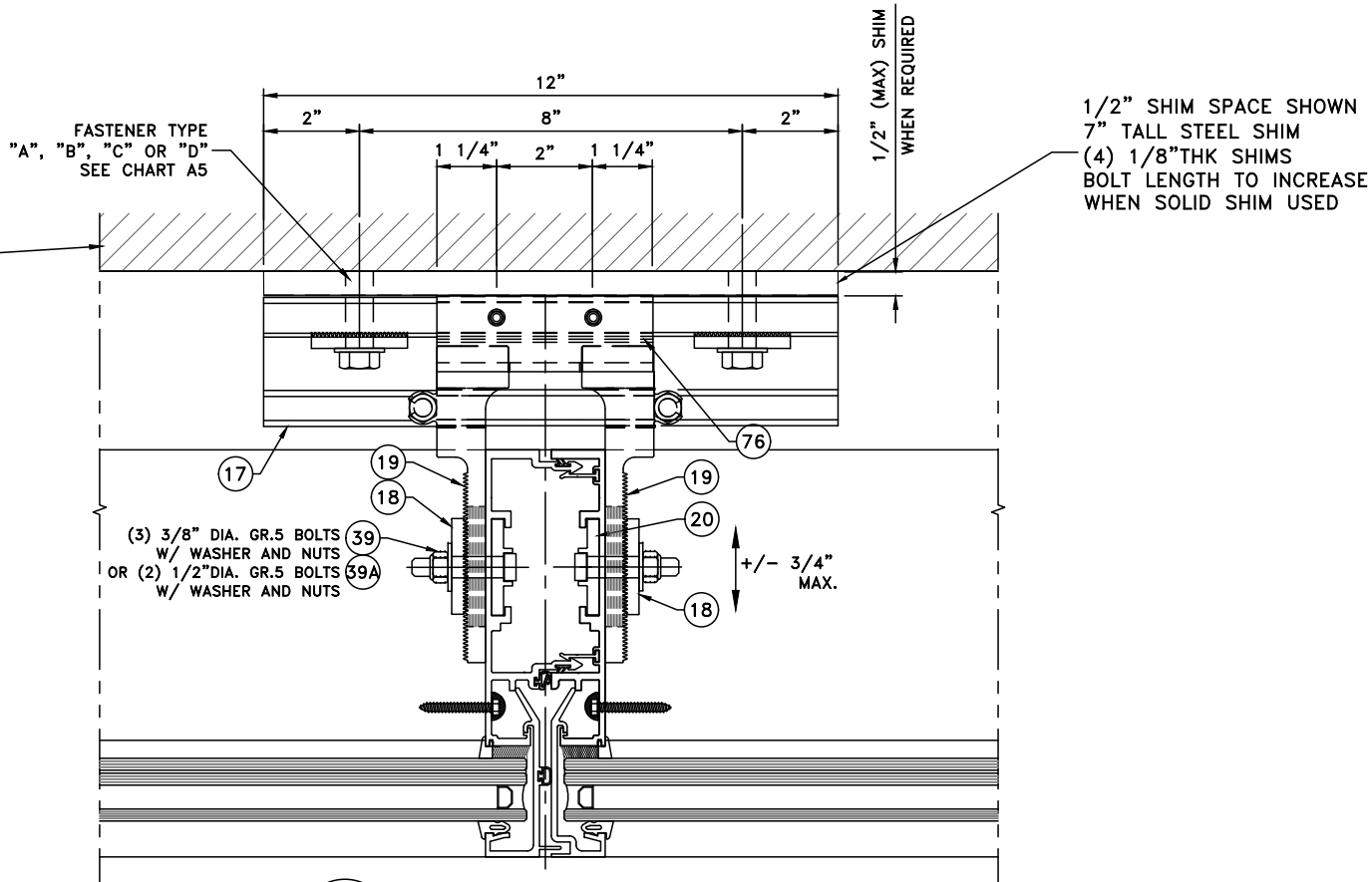
- FASTENERS MUST FULLY PENETRATE THE WALL THICKNESS OF THE STEEL, WITH (3) ADDITIONAL THREADS BEYOND (min).
- THE DESIGN OF CONCRETE EMBEDS IS NOT A PART OF THIS EVALUATION. EMBEDS MUST BE REVIEWED AND APPROVED PER PROJECT SPECIFIC CALCULATIONS BY A FLORIDA LICENSED ENGINEER.
- 1/2" DIA. TAP-FLEX OR F-TYPE SCREWS MAY BE USED IN 1/4" STEEL FOR MID-SPAN WIND LOAD REACTIONS UP TO 3500 LB.

CORROSION NOTES:

- WITHIN 3000 ft of SALTWATER COASTLINE:
- F-TYPE SCREWS MUST BE EITHER GALVANIZED TO MEET ASTM A153 CLASS C, or 300 SERIES STAINLESS STEEL WITH F_{UT}=120 ksi (min).
 - T-BOLTS MUST BE M16 Gr. A4-50 (HALFEN) or M16 Gr. 50R (HILTI) STAINLESS STEEL.
 - ONLY MECHANICALLY GALVANIZED VERSIONS OF SCREW-BOLT+ (MG) or KH-EZ (CRC) MAY BE USED.
 - DeWALT TAP-FLEX FASTENERS WITH STALGARD COATING MEET THE REQUIREMENTS OF FBC SECTION 1711.1.1.2.



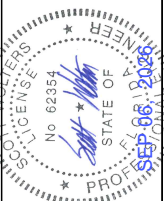
2 SECTION
A5 JAMB ANCHOR



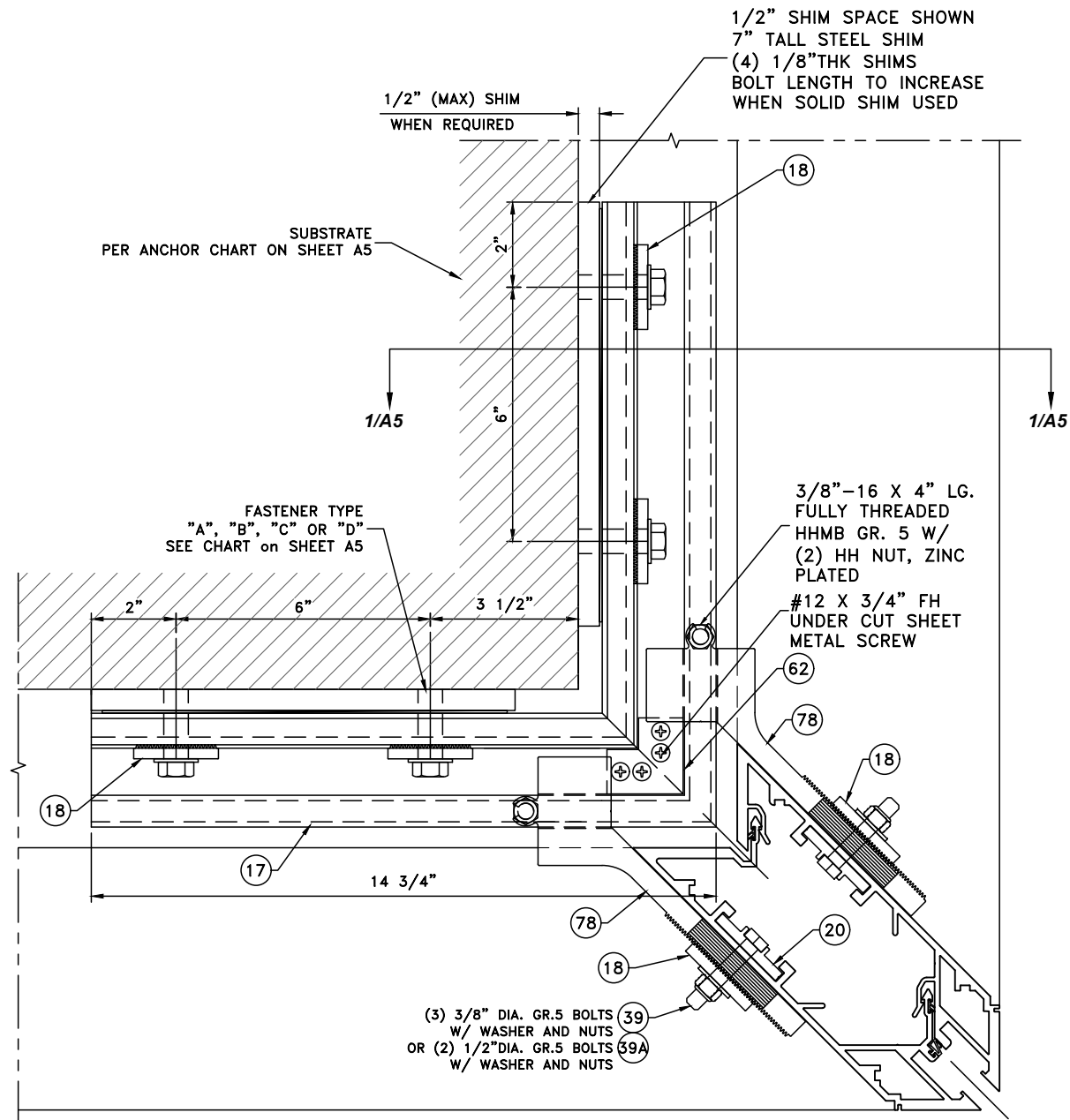
3 SECTION
A5 INTERMEDIATE ANCHOR

REVISIONS		08-28-24	09-06-26
GLASS REVISION	CODE COMPLIANCE		
1	2	3	4
5			
DRAWN BY: HG			
DATE: 01/04/2024			

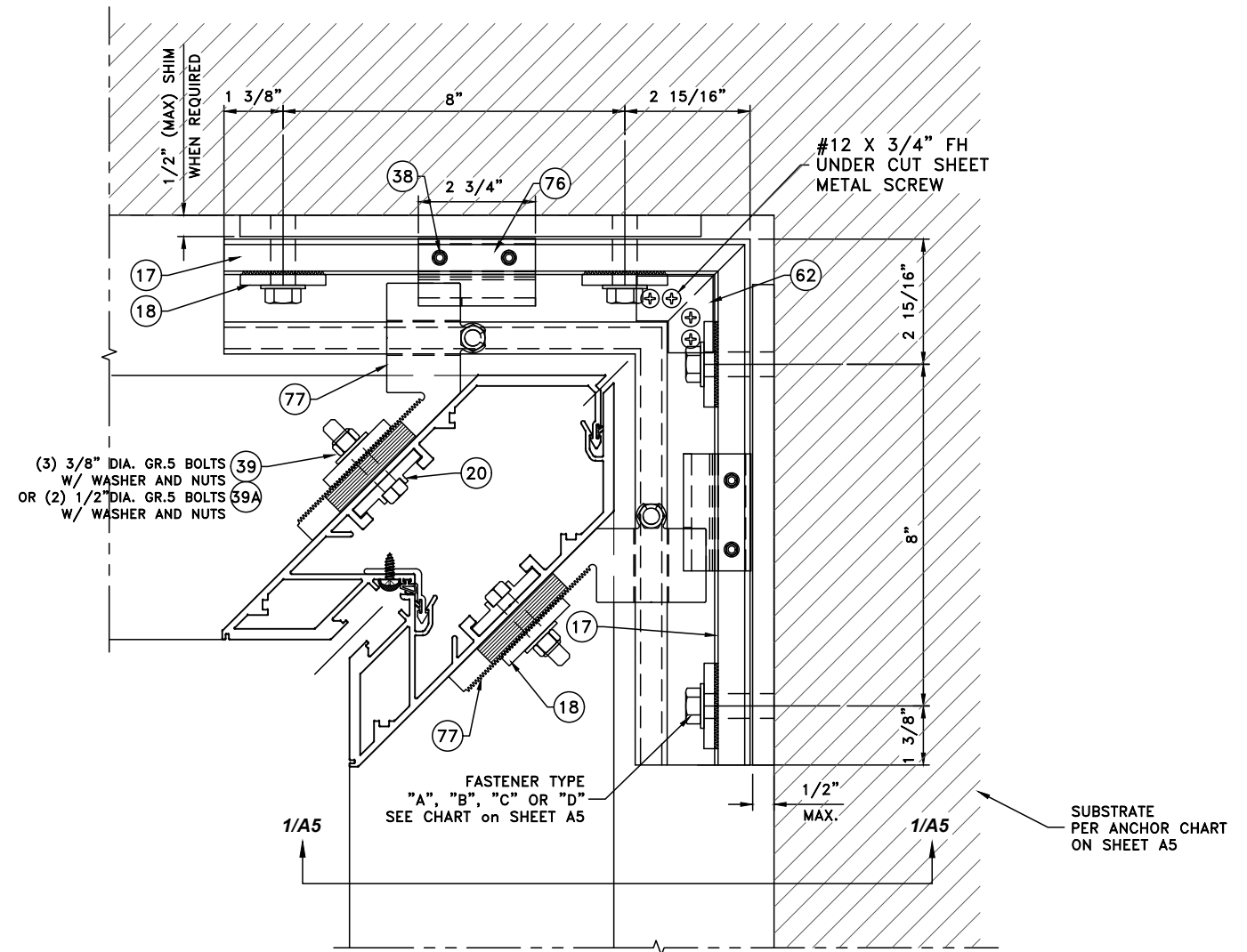
T850A & T850B CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)
CT WINDOWS
d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES
9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824
(407) 857-9237



SEAL:
SCOTT WOLTERS
FL PE# 62354
WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX: (561) 225-1982

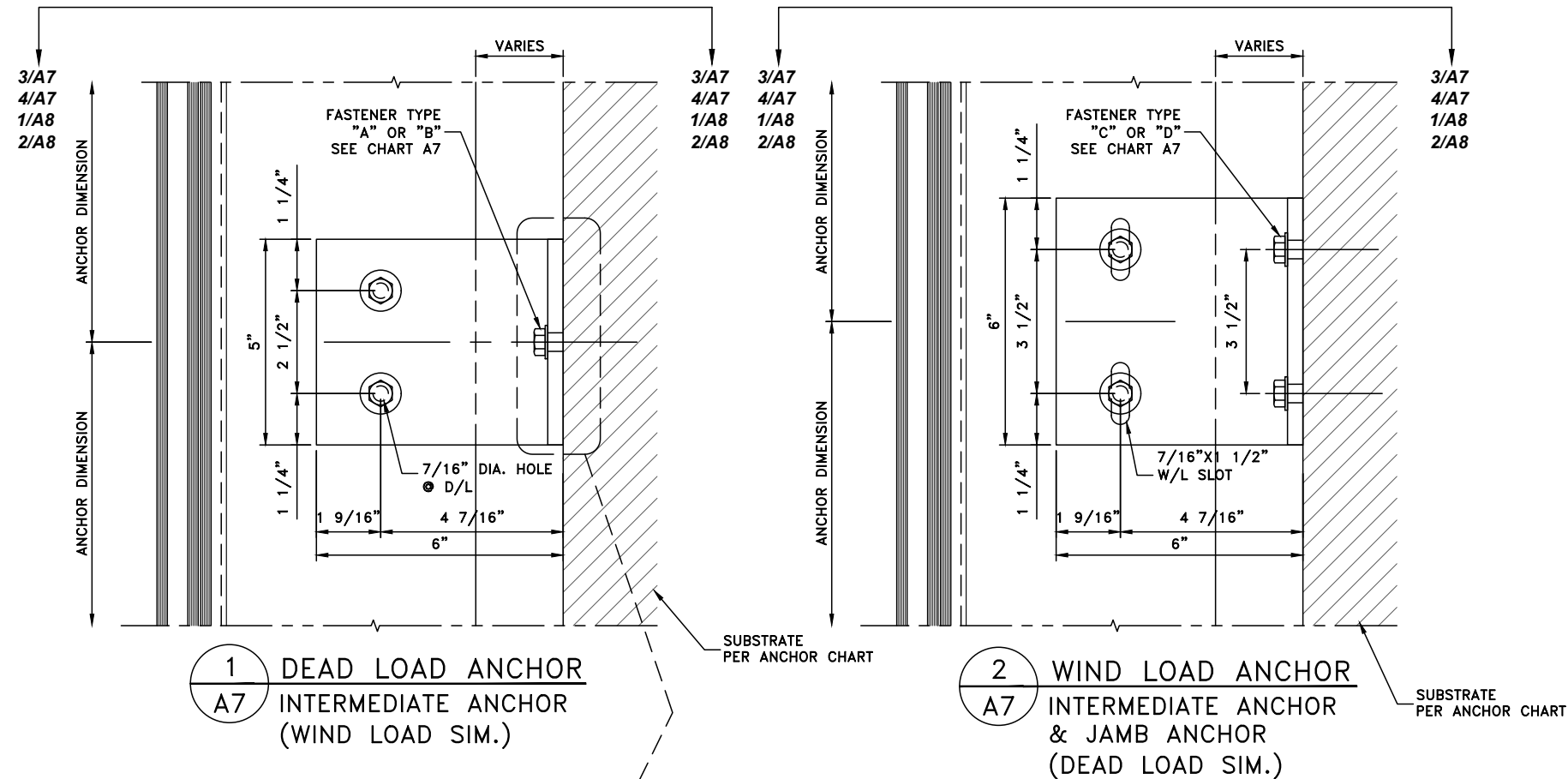


1 SECTION
A6 90° O.S. CORNER MULLION
J-HOOK ANCHOR



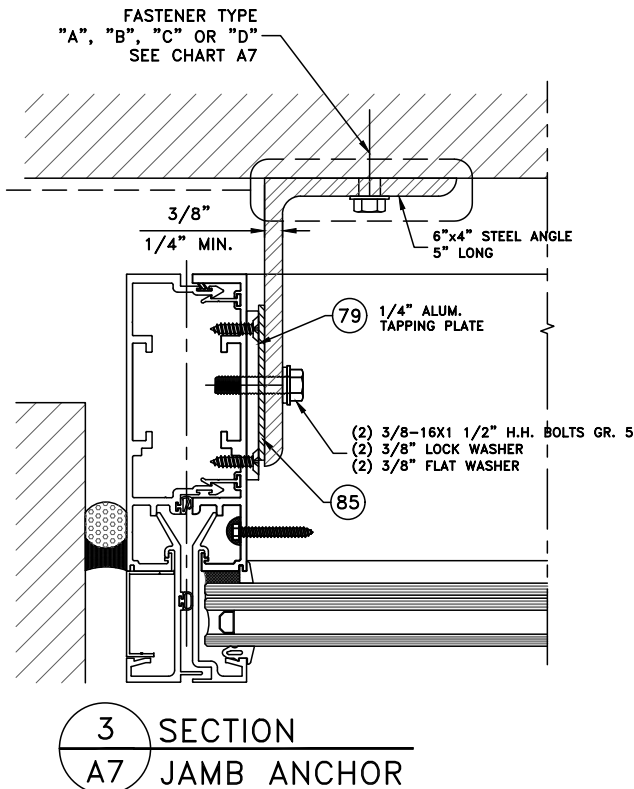
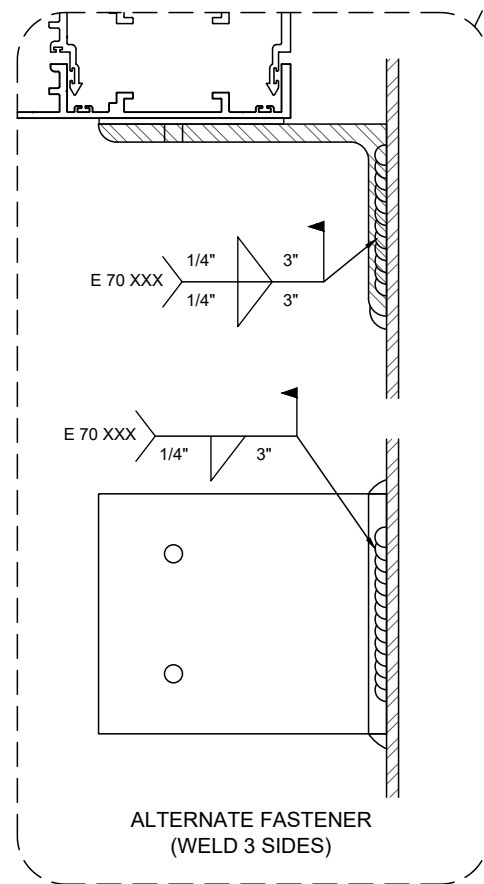
2 DETAIL
A6 90° I.S. CORNER MULLION
J-HOOK ANCHOR

DRAWING NO. AAT1-23		SHEET NO. 20 of 33		A6		SCOTT WOLTERS FL PE# 62354 WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 PH/FAX:(561)225-1982		SEAL: 		T850A & T850B CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)		REVISIONS	
												1	GLASS REVISION
										1		CODE COMPLIANCE	09-06-26
										2			
										3			
										4			
										5			
										DRAWN BY: HG			
										DATE:01/04/2024			
										CT WINDOWS			
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										(407) 857-9237			



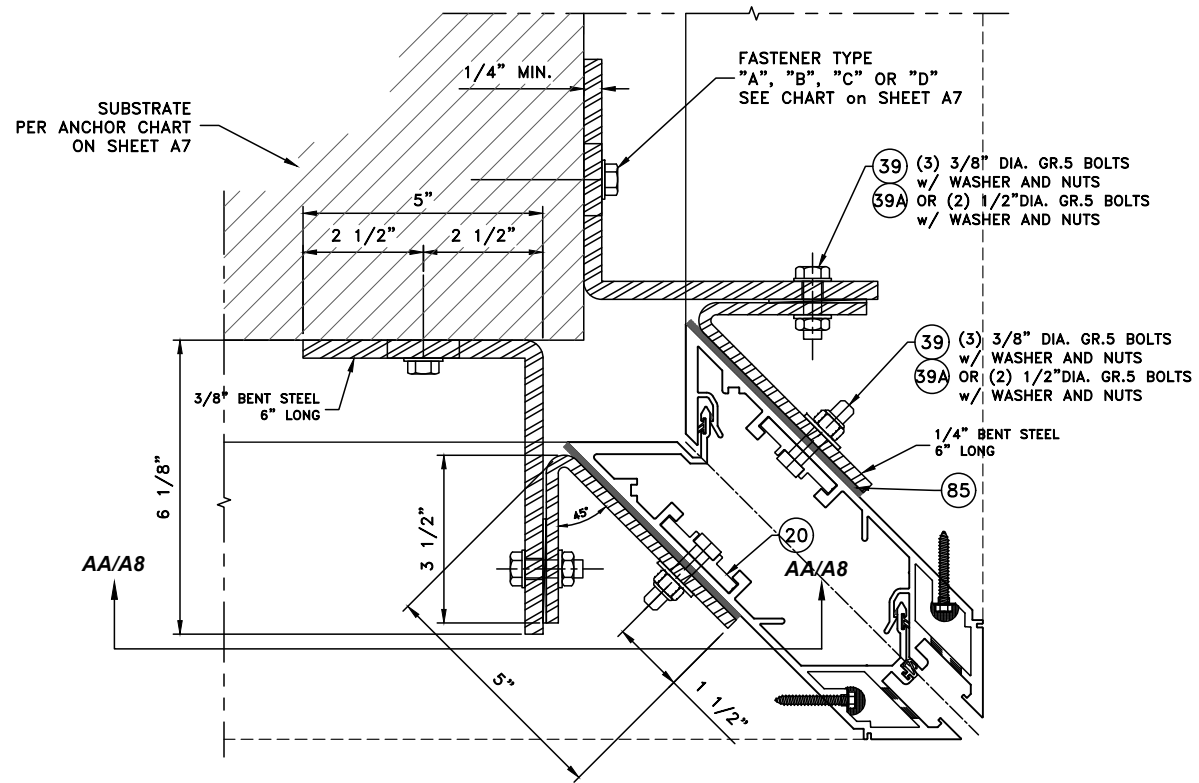
MID-SPAN ANCHOR CHART A7					
FASTENER TYPE	DESCRIPTION	BASE MATERIAL	EMBEDMENT (in)	EDGE DISTANCE (min)	SPACING (min)
A1	1/2" DIA. DeWALT TAP-FLEX (1) PER JAMB, (2) PER MULLION	STEEL (3/8", F _{UT} =65 ksi min) ³	FULL ¹	3/4"	6"
A2	1/2" DIA. F-TYPE SCREW (Gr. 5 min) ⁴ (1) PER JAMB, (2) PER MULLION		FULL ¹	3/4"	6"
A3	HALFEN M12 (Gr. 8.8) T-BOLT ⁶ (1) PER JAMB, (2) PER MULLION	HALFEN HTA EMBED (SEE NOTE #2)			
A4	HILTI M12 (Gr. 8.8) T-BOLT ⁶ (1) PER JAMB, (2) PER MULLION	HILTI HAC EMBED (SEE NOTE #2)			
B1	1/2" DIA. DeWALT SCREW-BOLT + ⁷ (1) PER JAMB, (2) PER MULLION	CONCRETE (4000 psi min.)	4 1/4"	5"	6"
B2	1/2" DIA. HILTI KH-EZ ⁷ (1) PER JAMB, (2) PER MULLION		4 1/4"	5"	6"
C1	3/8" DIA. DeWALT TAP-FLEX (2) PER JAMB, (4) PER MULLION	STEEL (1/4", F _{UT} =65 ksi min)	FULL ¹	5/8"	3 1/2"
C2	3/8" DIA. F-TYPE SCREW (Gr. 5 min) ⁵ (2) PER JAMB, (4) PER MULLION		FULL ¹	5/8"	3 1/2"
D1	3/8" DIA. DeWALT SCREW-BOLT + ⁷ (2) PER JAMB, (4) PER MULLION	CONCRETE (4000 psi min.)	3 1/4"	4 1/2"	3 1/2"
D2	3/8" DIA. HILTI KH-EZ ⁷ (2) PER JAMB, (4) PER MULLION		3 1/4"	4"	3 1/2"

- NOTES:**
- FASTENERS MUST FULLY PENETRATE THE WALL THICKNESS OF THE STEEL, WITH (3) ADDITIONAL THREADS BEYOND (min).
 - THE DESIGN OF CONCRETE EMBEDS IS NOT A PART OF THIS EVALUATION. EMBEDS MUST BE REVIEWED AND APPROVED PER PROJECT SPECIFIC CALCULATIONS BY A FLORIDA LICENSED ENGINEER.
 - 1/2" DIA. TAP-FLEX OR F-TYPE SCREWS MAY BE USED IN 1/4" STEEL FOR MID-SPAN WIND LOAD REACTIONS UP TO 3500 LB.
- CORROSION NOTES:**
- WITHIN 3000 FT OF SALTWATER COASTLINE:
- 1/2" DIA. F-TYPE SCREWS MUST BE EITHER GALVANIZED TO MEET ASTM A153 CLASS C, or 300 SERIES STAINLESS STEEL WITH F_{UT}=120 ksi (min).
 - 3/8" DIA. F-TYPE SCREWS MUST BE EITHER GALVANIZED TO MEET ASTM A153 CLASS D, or 300 SERIES STAINLESS STEEL WITH F_{UT}=120 ksi (min).
 - T-BOLTS MUST BE M12 Gr. A4-70 (HALFEN) or M12 Gr. 50R (HILTI) STAINLESS STEEL.
 - ONLY MECHANICALLY GALVANIZED VERSIONS OF SCREW-BOLT+ (MG) or KH-EZ (CRC) MAY BE USED.
 - DeWALT TAP-FLEX FASTENERS WITH STALGARD COATING MEET THE REQUIREMENTS OF FBC SECTION 1711.1.1.2.

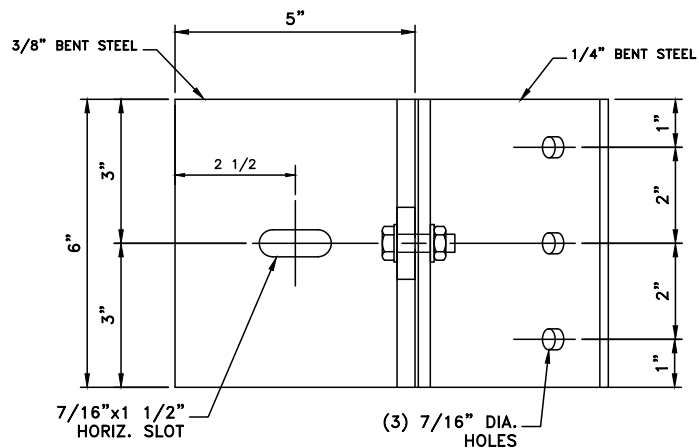


- NOTE:**
- THE ANCHOR CONFIGURATIONS SHOWN ARE BASED ON MAXIMUM MID-SPAN WIND LOAD REACTIONS. OTHER CONFIGURATIONS MAY BE ALLOWED PER PROJECT SPECIFIC CALCULATIONS BY A FLORIDA LICENSED ENGINEER.
 - WITHIN 3000 FT OF A SALTWATER COASTLINE, THE STEEL ANGLES MUST BE EITHER:
A. HOT-DIPPED GALVANIZED PRIOR TO FABRICATION TO MEET ASTM A653 G90.
B. HOT-DIPPED GALVANIZED AFTER FABRICATION TO MEET ASTM A123 WITH 2.0 OZ/SQFT.
C. PROVIDED WITH A PROTECTIVE COATING MEETING ANSI/TPI 1.
D. ASTM A240 TYPE 316 STAINLESS STEEL.

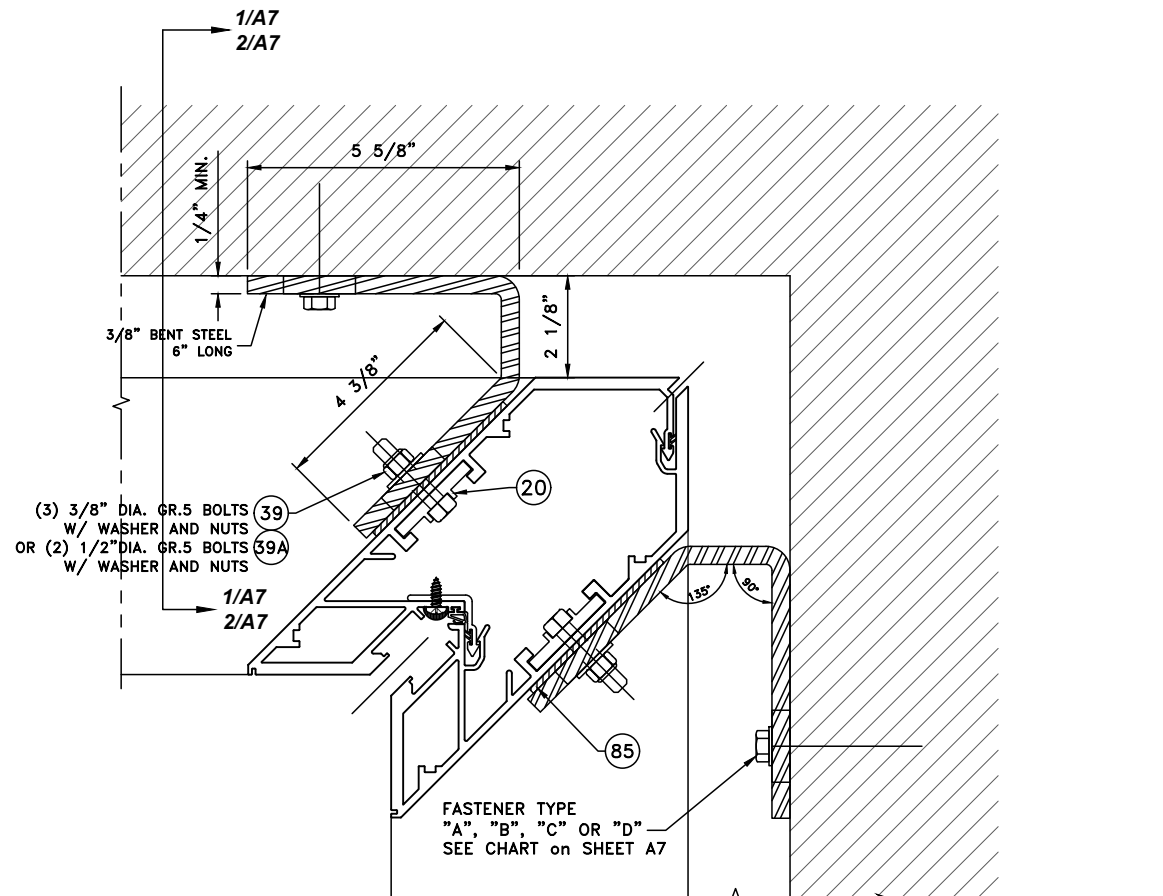
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	GLASS REVISION	CODE COMPLIANCE
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	3	4
	5	
DRAWN BY: HG		
DATE: 01/04/2024		
T850A & T850B CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)		
CT WINDOWS		
d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES		
9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824		
(407) 857-9237		
SEAL: SCOTT WOLTERS FL PE# 62354		
WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 PH/FAX: (561) 225-1982		
A7		
DRAWING NO. AAT1-23		
SHEET NO. 21 of 33		



1 SECTION
A8 90° OUT SIDE CORNER
ANCHOR



AA SECTION
A8 OUT SIDE CORNER
ANCHOR



2 SECTION
A8 90° IN SIDE CORNER
ANCHOR

REVISIONS		T850A & T850B CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)	
1	GLASS REVISION	08-28-24	08-28-24
2	CODE COMPLIANCE	09-06-26	09-06-26
3			
4			
5			
DRAWN BY: HG		DATE: 01/04/2024	
CT WINDOWS		d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES	
		9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824	
		(407) 857-9237	



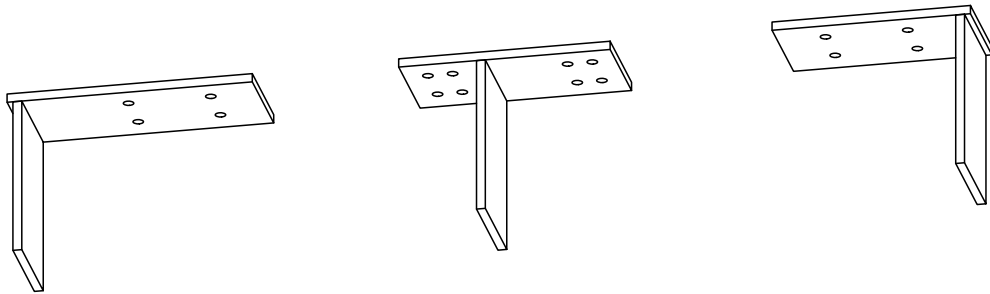
SEAL:
SCOTT WOLTERS
FL PE# 62354
WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
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A8

DRAWING NO.
AAT1-23

SHEET NO.

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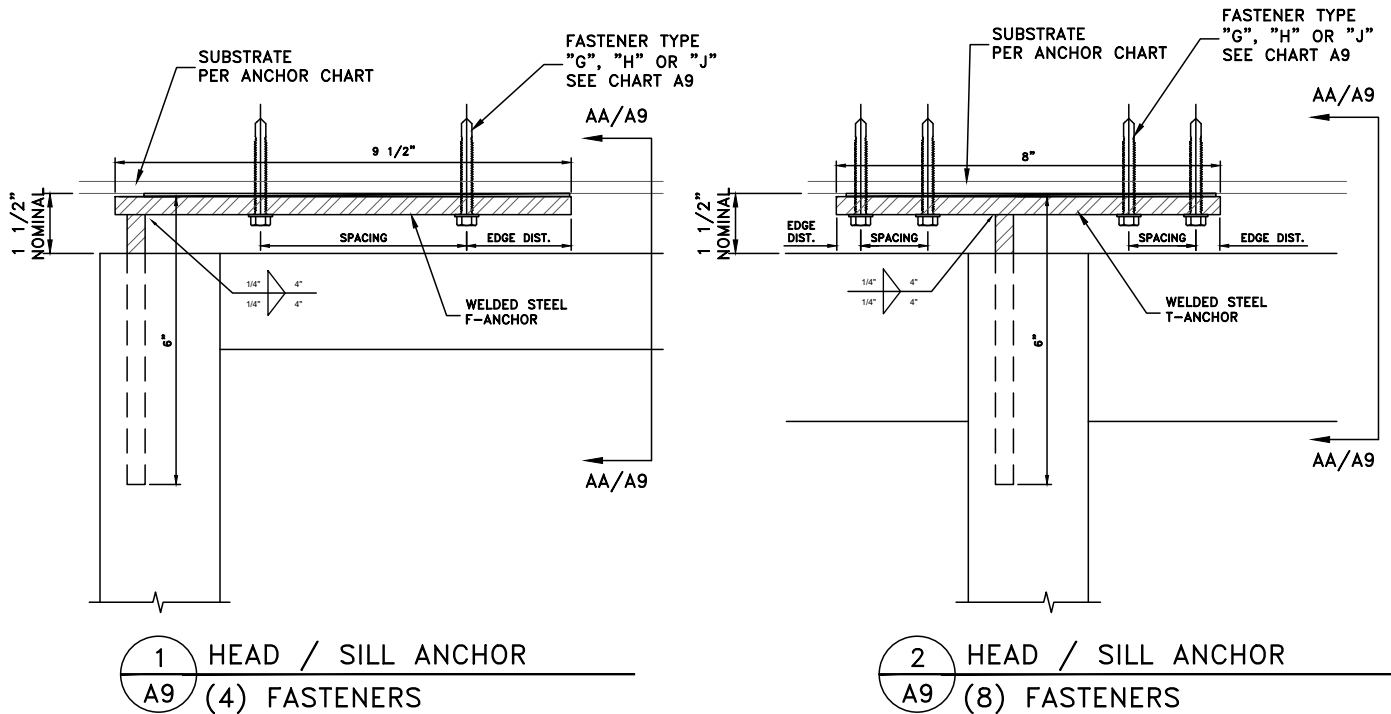


HEAD/SILL ANCHOR CHART A9					
FASTENER TYPE	DESCRIPTION	BASE MATERIAL	EMBEDMENT (in)	EDGE DISTANCE (min)	SPACING (min)
G1	5/16" DIA. DeWALT DRIL-FLEX (4) PER JAMB, (8) PER MULLION	STEEL (16 Ga, F _{UT} = 45 ksi min)	FULL ¹	1/2"	1"
G2	5/16" DIA. HHSM SCREW (Gr. 5 min) ² (4) PER JAMB, (8) PER MULLION			1/2"	1"
H	1/4" DIA. DeWALT DRIL-FLEX (4) PER JAMB, (8) PER MULLION			1/2"	1"
J	1/4" DIA. TEKS-TYPE SCREW (Gr. 5 min) ² (4) PER JAMB, (8) PER MULLION			1/2"	1"

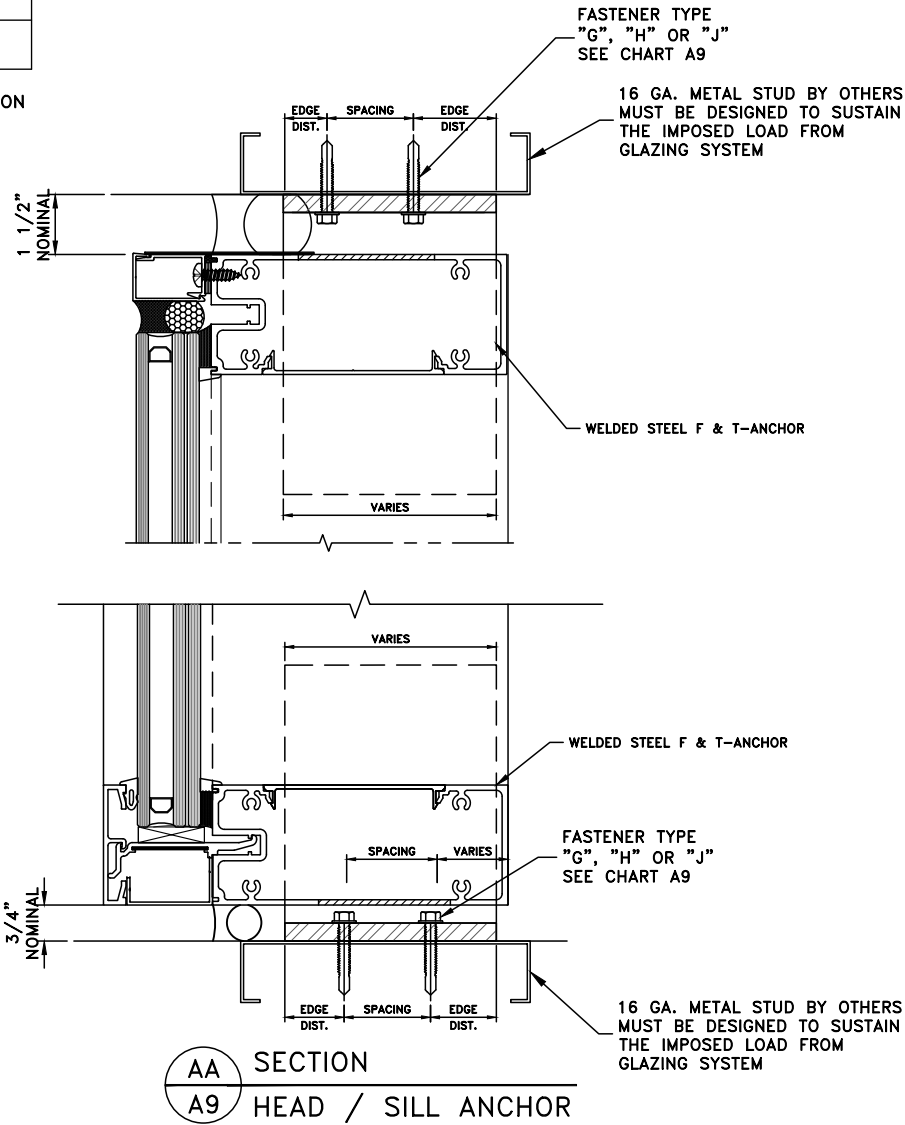
- NOTES:
1. FASTENERS MUST FULLY PENETRATE THE WALL THICKNESS OF THE STEEL, WITH (3) ADDITIONAL THREADS BEYOND (min).
CORROSION NOTES:
WITHIN 3000 ft of SALTWATER COASTLINE:
2. HHSM AND TEKS SCREWS MUST BE EITHER GALVANIZED TO MEET ASTM A153 CLASS D, OR 300 SERIES STAINLESS STEEL WITH F_{UT}=120 ksi (min).
3. DeWALT DRIL-FLEX FASTENERS WITH STALGARD COATING MEET THE REQUIREMENTS OF FBC SECTION 1711.1.1.2.

MAX CAULK JOINT WIDTH	MAX MULLION END REACTION
3/4"	2800 LB **
1"	2300 LB
1 1/2"	1700 LB

** MAX REACTION FOR ALL MULLION CONFIGURATIONS.



- NOTE:
1. MAXIMUM SHIM SPACE IS THE RESPONSIBILITY OF THE DELEGATED FL LICENSED ENGINEER FOR EACH PROJECT.
2. WITHIN 3000 FT OF A SALTWATER COASTLINE, THE STEEL F&T ANCHORS MUST BE EITHER:
A. HOT-DIPPED GALVANIZED PRIOR TO FABRICATION TO MEET ASTM A653 G90.
B. HOT-DIPPED GALVANIZED AFTER FABRICATION TO MEET ASTM A123 WITH 2.0 OZ/SQFT.
C. PROVIDED WITH A PROTECTIVE COATING MEETING ANSI/TPI 1.
D. ASTM A240 TYPE 316 STAINLESS STEEL.



REVISIONS

1	GLASS REVISION	08-28-24
2	CODE COMPLIANCE	09-06-26
3		
4		
5		

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DATE:01/04/2024

T850A & T850B CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)

CT WINDOWS

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WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX:(561)225-1982

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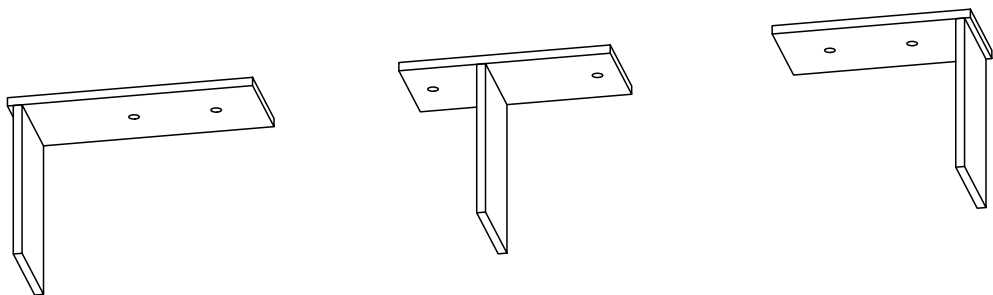
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FLORIDA STATE BOARD OF PROFESSIONAL ENGINEERS
No 62354
STATE OF FLORIDA
WOLTERS ENGINEERING
COA# 27194
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX:(561)225-1982

A9

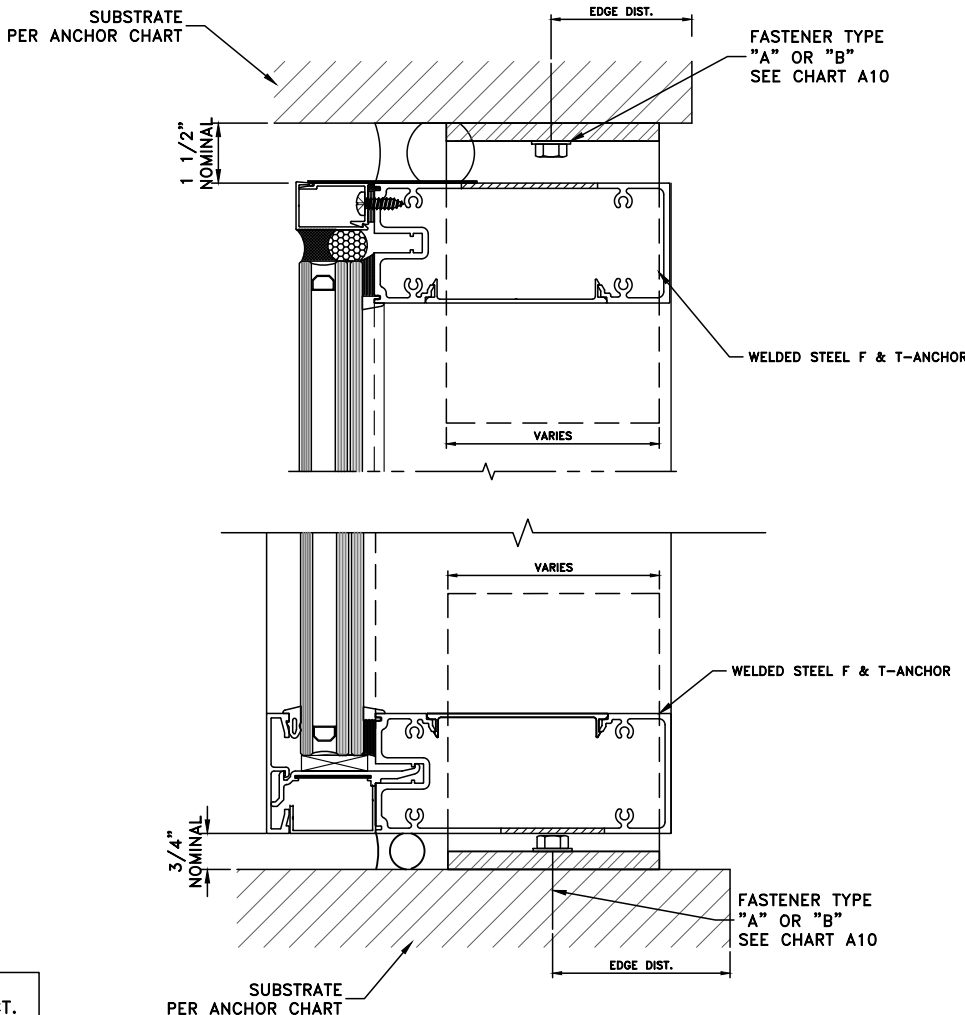
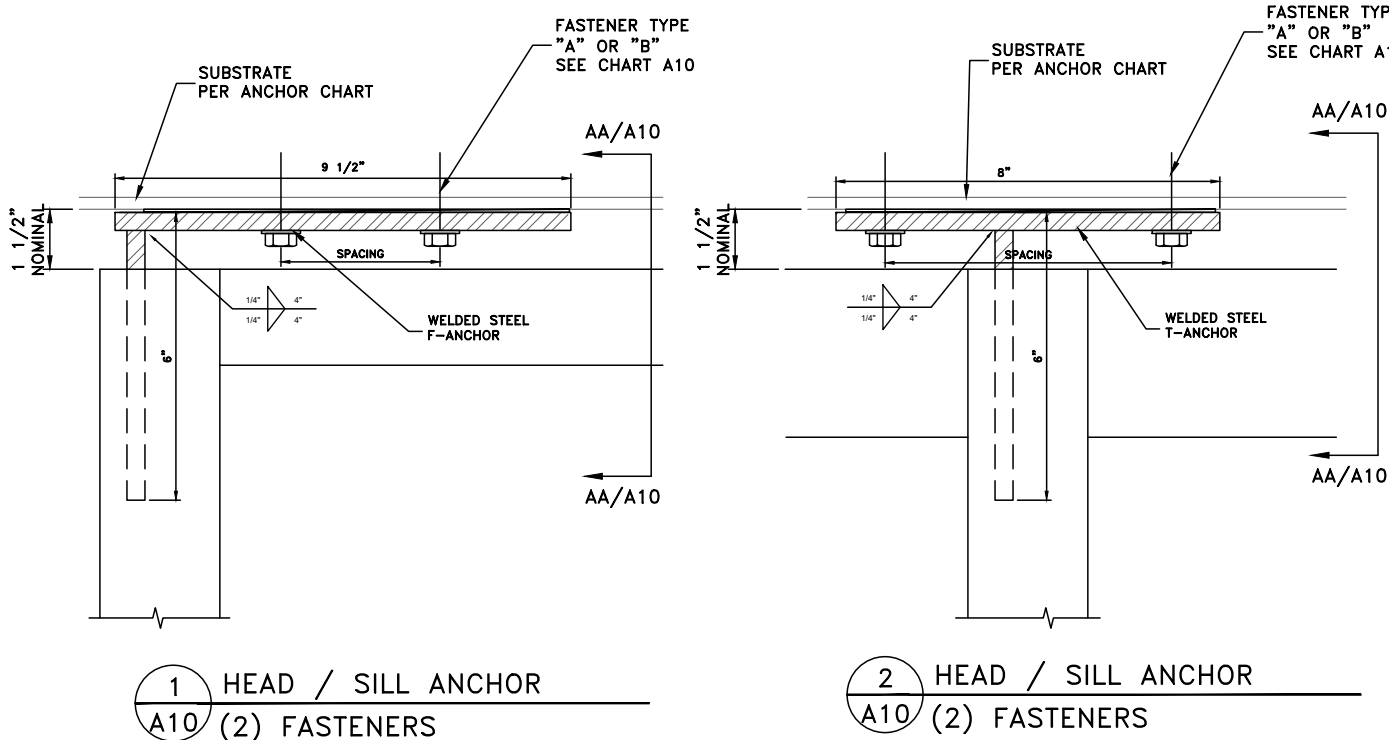
DRAWING NO.
AAT1-23

SHEET NO.
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HEAD/SILL ANCHOR CHART A10					
FASTENER TYPE	DESCRIPTION	BASE MATERIAL	EMBEDMENT (in)	EDGE DISTANCE (min.)	SPACING (min.)
A1	1/2" DIA. DeWALT TAP-FLEX (2) PER JAMB, (4) PER MULLION	STEEL (1/4", A36 min)	FULL ¹	3/4"	1 1/2"
A2	1/2" DIA. F-TYPE SCREW (Gr. 5 min) ³ (2) PER JAMB, (4) PER MULLION		FULL ¹	3/4"	1 1/2"
A3	HALFEN M12 (Gr. 8.8) T-BOLT ⁴ (2) PER JAMB, (4) PER MULLION	HALFEN HTA EMBED (SEE NOTE #2)			
A4	HILTI M12 (Gr. 8.8) T-BOLT ⁴ (2) PER JAMB, (4) PER MULLION	HILTI HAC EMBED (SEE NOTE #2)			
B1	1/2" DIA. DeWALT SCREW-BOLT + ⁵ (2) PER JAMB, (4) PER MULLION	CONCRETE (4000 psi min.)	2 1/2"	3"	3"
B2	1/2" DIA. HILTI KH-EZ ⁵ (2) PER JAMB, (4) PER MULLION		2 1/2"	3"	3"

- NOTES:
- FASTENERS MUST FULLY PENETRATE THE WALL THICKNESS OF THE STEEL, WITH (3) ADDITIONAL THREADS BEYOND (min).
 - THE DESIGN OF CONCRETE EMBEDS IS NOT A PART OF THIS EVALUATION. EMBEDS MUST BE REVIEWED AND APPROVED PER PROJECT SPECIFIC CALCULATIONS BY A FLORIDA LICENSED ENGINEER.
- CORROSION NOTES:
- WITHIN 3000 ft of SALTWATER COASTLINE:
- F-TYPE SCREWS MUST BE EITHER GALVANIZED TO MEET ASTM A153 CLASS C, or 300 SERIES STAINLESS STEEL WITH $F_{min}=120$ ksi (min).
 - T-BOLTS MUST BE M12 Gr. A4-50 (HALFEN) or M12 Gr. 50R (HILTI) STAINLESS STEEL.
 - ONLY MECHANICALLY GALVANIZED VERSIONS OF SCREW-BOLT+ (MG) or KH-EZ (CRC) MAY BE USED.
 - DeWALT TAP-FLEX FASTENERS WITH STALGARD COATING MEET THE REQUIREMENTS OF FBC SECTION 1711.1.1.2.

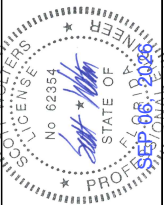


- NOTE:
- MAXIMUM SHIM SPACE IS THE RESPONSIBILITY OF THE DELEGATED FL LICENSED ENGINEER FOR EACH PROJECT.
 - WITHIN 3000 FT OF A SALTWATER COASTLINE, THE STEEL F&T ANCHORS MUST BE EITHER:
 - HOT-DIPPED GALVANIZED PRIOR TO FABRICATION TO MEET ASTM A653 G90.
 - HOT-DIPPED GALVANIZED AFTER FABRICATION TO MEET ASTM A123 WITH 2.0 OZ/SQFT.
 - PROVIDED WITH A PROTECTIVE COATING MEETING ANSI/TPI 1.
 - ASTM A240 TYPE 316 STAINLESS STEEL.

AA SECTION
A10 HEAD / SILL ANCHOR

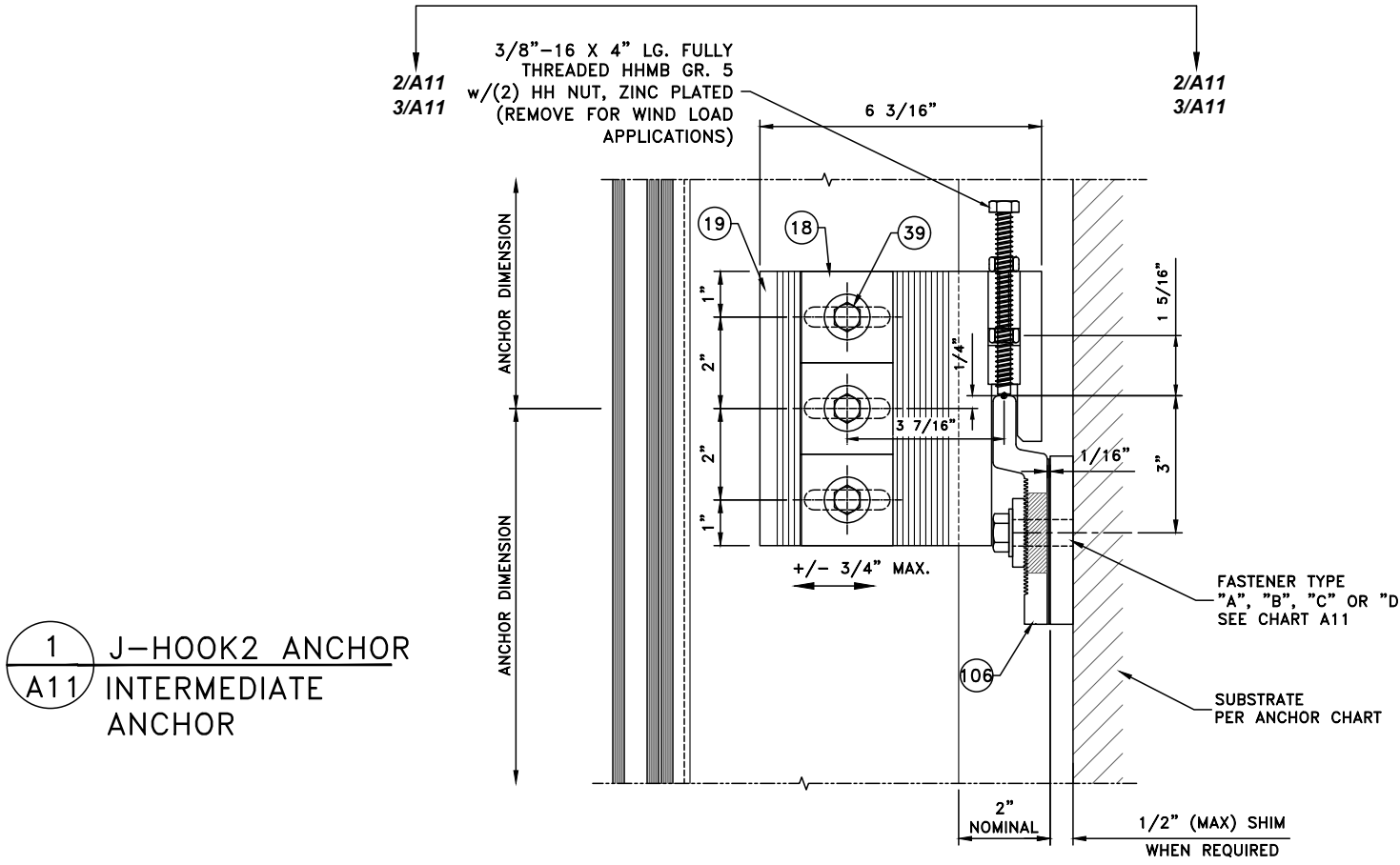
REVISIONS		GLASS REVISION		CODE COMPLIANCE	
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1	2	3	4	5	
DRAWN BY: HG					
DATE:01/04/2024					

T850A & T850B CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)
CT WINDOWS
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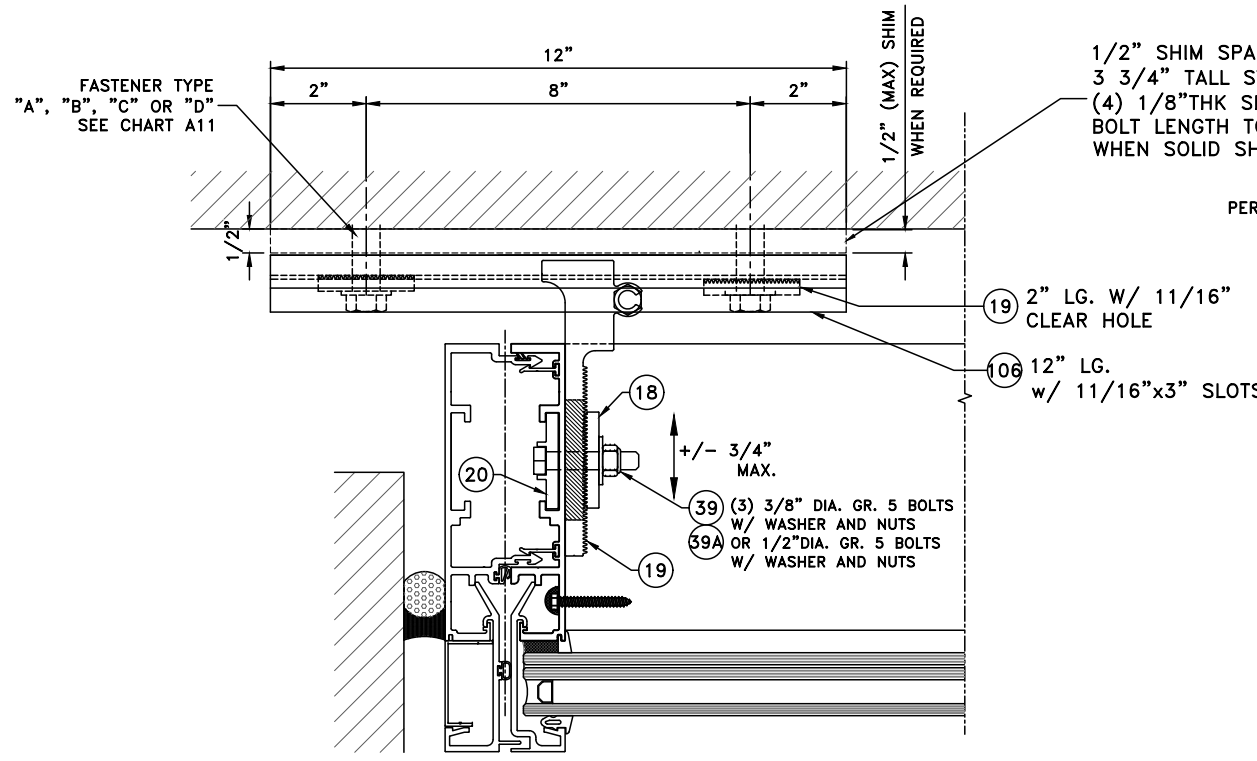


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FL PE# 62354
WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX:(561)225-1982

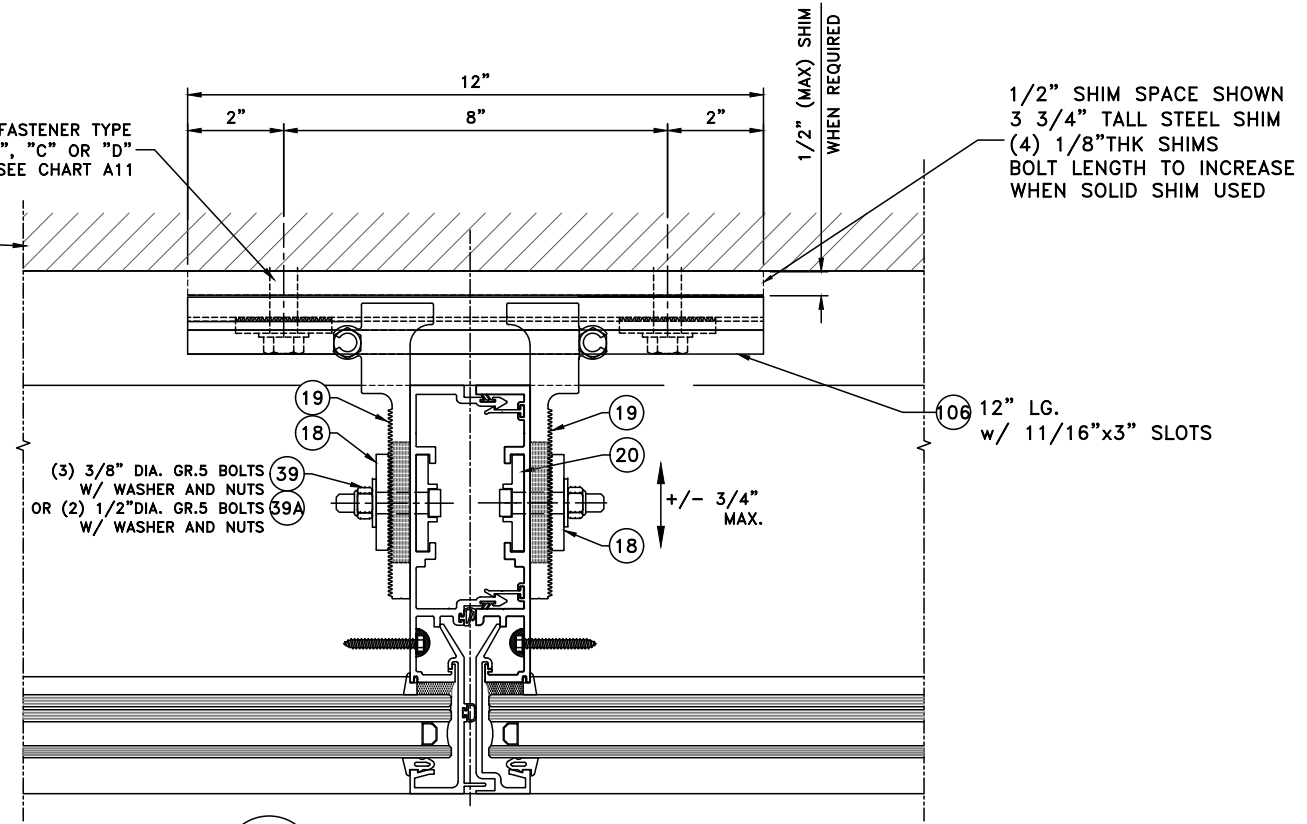
A10
DRAWING NO.
AAT1-23
SHEET NO.
24 of 33



1 J-HOOK2 ANCHOR
A11 INTERMEDIATE ANCHOR



2 SECTION
A11 JAMB ANCHOR



3 SECTION
A11 INTERMEDIATE ANCHOR

MID-SPAN ANCHOR CHART A11						
FASTENER TYPE	DESCRIPTION	BASE MATERIAL	EMBEDMENT (in)	EDGE DISTANCE (min)	MAX. WIND LOAD REACTION	
					INTERMEDIATE MULLION (lb)	JAMB MULLION (lb)
A1	5/8" DIA. DeWALT TAP-FLEX (2) PER JAMB, (2) PER MULLION	STEEL (3/8", F _{UT} =65 ksi min)	FULL ¹	1 1/4"	4855	2530
		STEEL (1/4", F _{UT} =65 ksi min)	FULL ¹	1 1/4"	3800	2530
A2	5/8" DIA. F-TYPE SCREW (Gr. 5 min) ³ (2) PER JAMB, (2) PER MULLION	STEEL (3/8", F _{UT} =65 ksi min)	FULL ¹	1 1/4"	4855	2530
		STEEL (1/4", F _{UT} =65 ksi min)	FULL ¹	1 1/4"	3800	2530
A3	HALFEN M16 (Gr. 8.8) T-BOLT ⁴ (2) PER JAMB, (2) PER MULLION	HALFEN HTA EMBED (SEE NOTE #2)				
A4	HILTI M16 (Gr. 8.8) T-BOLT ⁴ (2) PER JAMB, (2) PER MULLION	HILTI HAC EMBED (SEE NOTE #2)				
B1	5/8" DIA. DeWALT SCREW-BOLT + ⁶ (2) PER JAMB, (2) PER MULLION	CONCRETE (4000 psi min.)	4"	6"	3900	2530
B2	5/8" DIA. HILTI KH-EZ ⁶ (2) PER JAMB, (2) PER MULLION		5"	5"	4200	2530
C1	1/2" DIA. DeWALT TAP-FLEX (4) PER JAMB, (4) PER MULLION	STEEL (3/8", F _{UT} =65 ksi min)	FULL ¹	1"	4855	2530
		STEEL (1/4", F _{UT} =65 ksi min)	FULL ¹	1"	2800	2530
C2	1/2" DIA. F-TYPE SCREW (Gr. 5 min.) ³ (4) PER JAMB, (4) PER MULLION	STEEL (3/8", F _{UT} =65 ksi min)	FULL ¹	1"	4855	2530
		STEEL (1/4", F _{UT} =65 ksi min)	FULL ¹	1"	2800	2530
D1	1/2" DIA. DeWALT SCREW-BOLT + ⁶ (2) PER JAMB, (2) PER MULLION	CONCRETE (4000 psi min.)	4 1/4"	6"	3800	2530
D2	1/2" DIA. HILTI KH-EZ ⁶ (2) PER JAMB, (2) PER MULLION		4 1/4"	6"	3900	2530

- NOTES:
- FASTENERS MUST FULLY PENETRATE THE WALL THICKNESS OF THE STEEL, WITH (3) ADDITIONAL THREADS BEYOND (min).
 - THE DESIGN OF CONCRETE EMBEDS IS NOT A PART OF THIS EVALUATION. EMBEDS MUST BE REVIEWED AND APPROVED PER PROJECT SPECIFIC CALCULATIONS BY A FLORIDA LICENSED ENGINEER.
- CORROSION NOTES:
- WITHIN 3000 ft of SALTWATER COASTLINE:
- F-TYPE SCREWS MUST BE EITHER GALVANIZED TO MEET ASTM A153 CLASS C, or 300 SERIES STAINLESS STEEL WITH F_{UT}=120 ksi (min).
 - T-BOLTS MUST BE M16 Gr. A4-50 (HALFEN) or M16 Gr. 50R (HILTI) STAINLESS STEEL.
 - ONLY MECHANICALLY GALVANIZED VERSIONS OF SCREW-BOLT+ (MG) or KH-EZ (CRC) MAY BE USED.
 - DeWALT TAP-FLEX FASTENERS WITH STALGARD COATING MEET THE REQUIREMENTS OF FBC SECTION 1711.1.1.2.

REVISIONS

1	2	3	4	5
GLASS REVISION	CODE COMPLIANCE			
08-28-24	09-06-26			

DRAWN BY: HG

DATE: 01/04/2024

T850A & T850B CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)

CT WINDOWS

d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES

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SEAL:

SCOTT WOLTERS
FL PE# 62354

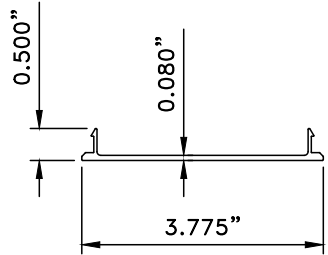
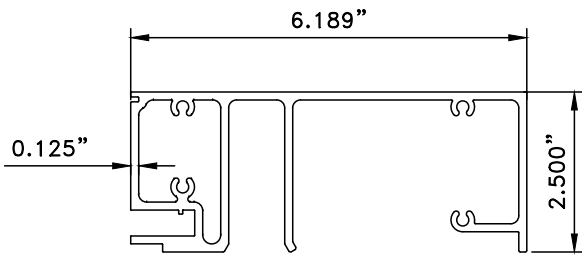
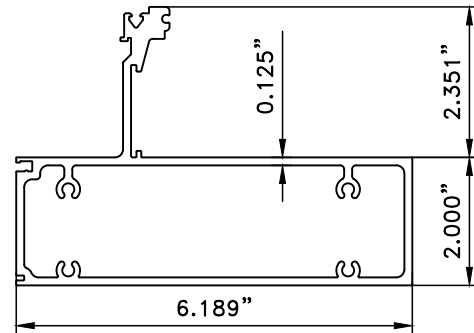
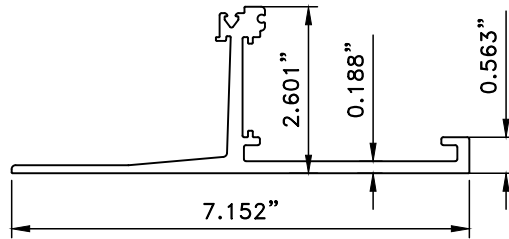
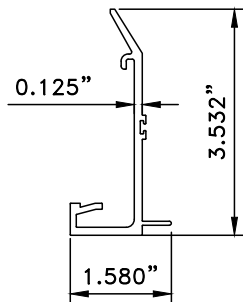
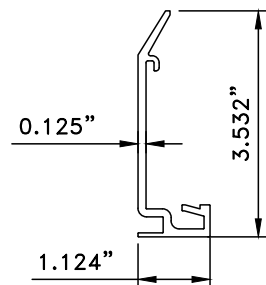
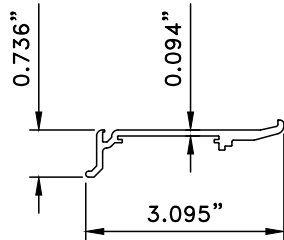
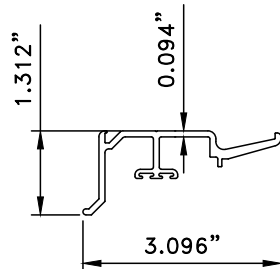
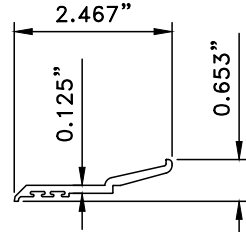
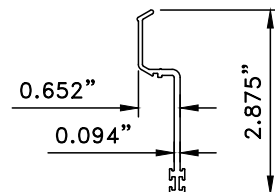
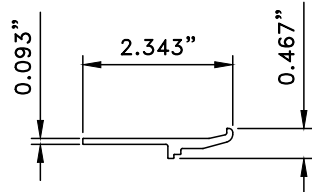
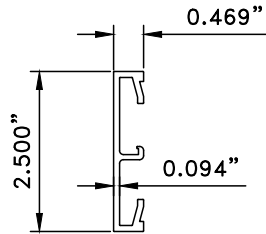
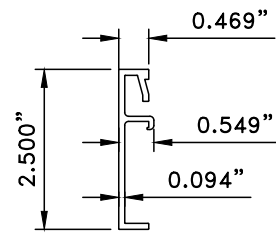
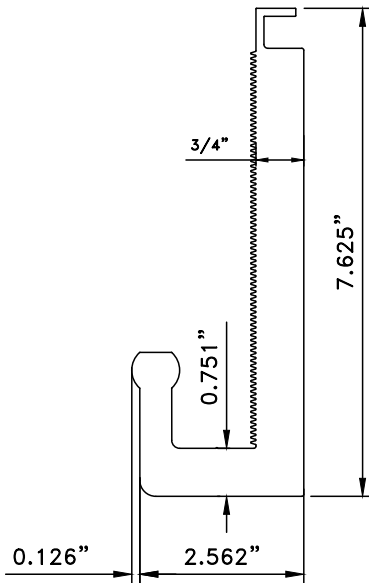
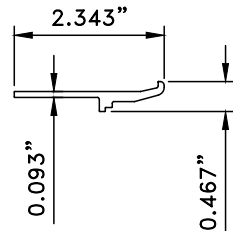
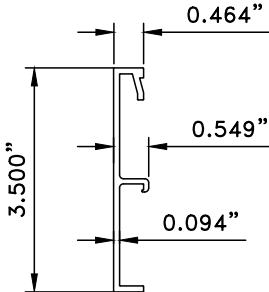
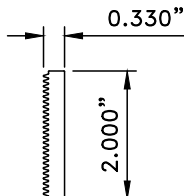
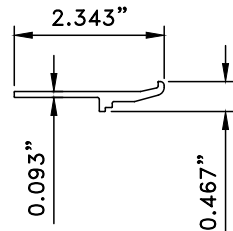
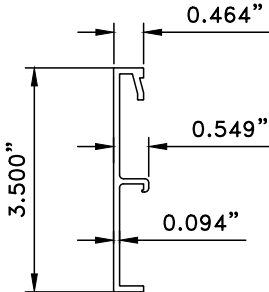
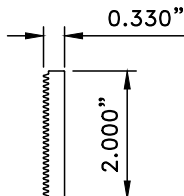
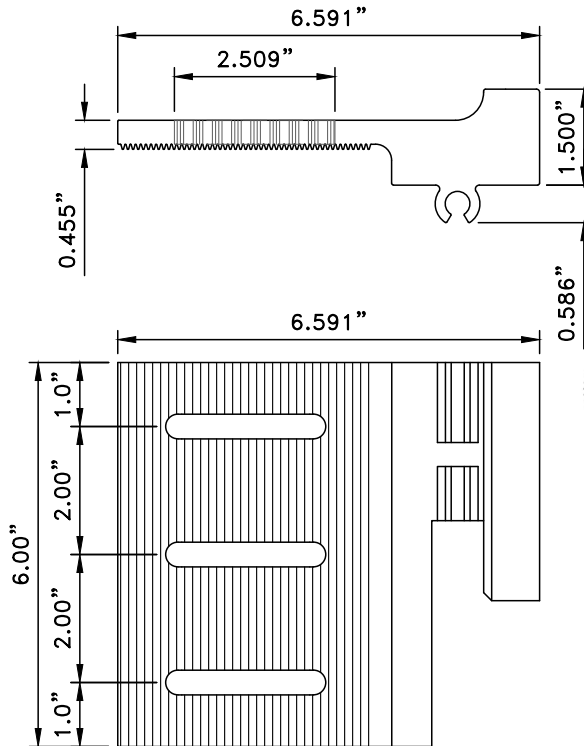
WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX: (561) 225-1982

SEP 06 2026

A11

DRAWING NO.
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SHEET NO.
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					REVISIONS <table><tr><td>1</td><td>GLASS REVISION</td><td>08-28-24</td></tr><tr><td>2</td><td>CODE COMPLIANCE</td><td>09-06-26</td></tr><tr><td>3</td><td></td><td></td></tr><tr><td>4</td><td></td><td></td></tr><tr><td>5</td><td></td><td></td></tr></table> DRAWN BY: HG DATE: 01/04/2024 T850A & T850B CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI) CT WINDOWS d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES 9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824 (407) 857-9237 SCOTT WOLTERS FL PE# 62354 WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 PH/FAX: (561) 225-1982 P1 DRAWING NO. AAT1-23 SHEET NO. 26 of 33	1	GLASS REVISION	08-28-24	2	CODE COMPLIANCE	09-06-26	3			4			5		
1	GLASS REVISION	08-28-24																		
2	CODE COMPLIANCE	09-06-26																		
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SPLICE/LIFTING LUG

20 TGF-1405 ALUM.6063-T6

UNIT LOCKING LUG

21 JAMB SPACER
TGF-1406 ALUM.6063-T6

23 SERRATED ANCHOR
TGF-1412 ALUM.6063-T6

22 MULLION LUG
TGF-1411 ALUM.6063-T6

25 MULLION CLIP
CTW-1117 ALUM.6063-T6

26 MALE MULLION
CTW-1123 ALUM.6063-T6
TECHNOGLASS
or KEYMARK
or MI METALS

29 ALUMINUM FRAME FILLER
CTW-1350 ALUM.6063-T5

27 FEMALE MULLION
CTW-1124 ALUM.6063-T6
TECHNOGLASS
or MI METALS

30 ALUM. FRAME FILLER
.040 ALUM. BRAKE

31 VERTICAL DRY GASKET ADEPTER
CTW-1360 ALUM.6063-T6

33 DOWSIL 123 SILICONE
WATER BARRIER
DC 123 SILICONE

REVISIONS

1	GLASS REVISION	08-28-24
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T850A & T850B CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)

CT WINDOWS

d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES

9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824

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SCOTT WOLTERS
FL PE# 62354

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WEST PALM BEACH, FL 33412
PH/FAX:(561)225-1982

SEAL:

SEP 06 2026

NO 62354

STATE OF FLORIDA

PROFESSIONAL ENGINEER

P2

DRAWING NO.
AAT1-23

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67 90° INSIDE CORNER MALE MULLION
CTW-1125 ALUM.6063-T6

68 90° INSIDE CORNER FEMALE MULLION
CTW-1126 ALUM.6063-T6

69 90° OUTSIDE CORNER MALE MULLION
TGF-1127 ALUM.6063-T6

70 90° OUTSIDE CORNER MALE MULLION
TGF-1128 ALUM.6063-T6

61 PRESSURE PLATE
CTW-1392 ALUM.6063-T6

71 90° INSIDE CORNER ANTI
BUCKLING CLIP
CTW-1115 ALUM.6063-T6

72 OUTSIDE CORNER CLOSER
FOR 1 5/16 GLASS
TGF-1352 ALUM.6063-T6

73 OUTSIDE CORNER CLOSER
FOR 1 5/16 GLASS
TGF-1353 ALUM.6063-T6

74 INSIDE CORNER CLOSER
FOR 1 5/16 GLASS
TGF-1356 ALUM.6063-T6

75 INSIDE CORNER CLOSER
FOR 1 5/16 GLASS
TGF-1357 ALUM.6063-T6

76 J-ANCHOR COVER
TGF-1404 ALUM.6005-T5

77 CORNER ANCHOR BRACKET
TGF-1407 ALUM.6063-T6

78 CORNER ANCHOR BRACKET
TGF-1408 ALUM.6063-T6

REVISIONS

1	GLASS REVISION	08-28-24
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SEAL: No 62354 SEP 06 2026

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DRAWING NO.
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79 TAPPING PLATE
- ALUM.6063-T6

94 JAMB MULLION
CTW-1147 ALUM.6063-T6

91 MALE MULLION
CTW-1131 ALUM.6063-T6

81 FACE COVER
CTW-1381 ALUM.6063-T6

86 "F" ANCHOR
TGF-1413 ALUM.6005-T5

92 FEMALE MULLION
CTW-1132 ALUM.6063-T6

82 JAMB CLIP
WLB-2004 ALUM.6063-T6

87 "T" ANCHOR
TGF-1414 ALUM.6005-T5

99 CHANNEL
4542 ALUM.6063-T6

83 JAMB CLIP
WLB-2005 ALUM.6063-T6

100 CHANNEL
5714 ALUM.6063-T6

106 S-ANCHOR
CTW-1423 ALUM.6063-T6

84 CORNER BOX TUBE
ST114 ALUM.6063-T6

101 SILL STARTER
CTW-1231 ALUM.6063-T6

REVISIONS	
GLASS REVISION	08-28-24
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SEP 06 2026

NO 62354

STATE OF FLORIDA

PROFESSIONAL ENGINEER

P4

DRAWING NO.
AAT1-23

SHEET NO.
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BILL OF MATERIALS				
ITEM	PART	DESCRIPTION	MATERIAL	REMARKS
1	TGF-1202	HORIZONTAL FILLER AT HEAD AND INTERMEDIATE	ALUM 6063-T6	BONNELL
2	TGF-1204	FRAME SILL	ALUM 6063-T6	BONNELL
3	TGF-1206	HEAD AND STACK HORIZONTAL	ALUM 6063-T6	BONNELL
4	TGF-1209	SILL STARTER, NOTCH 4" LG. AT MIDSPAN OF D.L.O.	ALUM 6063-T6	BONNELL
5	TGF-1311	MALE CLOSER	ALUM 6063-T6	BONNELL
6	TGF-1312	FEMALE CLOSER	ALUM 6063-T6	BONNELL
8	TGF-1315	1-5/16" CAPTURED GLAZING ADAPTOR	ALUM 6063-T6	BONNELL
9	TGF-1316	SILL COVER CAP ADAPTOR	ALUM 6063-T6	BONNELL
10	TGF-1317	SILL & STACK HORIZONTAL SETTING CHAIR	ALUM 6063-T6	BONNELL
11	TGF-1318	ALUMINUM WEATHER STRIP ADAPTOR	ALUM 6063-T6	BONNELL
12	TGF-1319	INTERMEDIATE HORIZONTAL SETTING CHAIR	ALUM 6063-T6	BONNELL
13	TGF-1331	GLAZING COVER	ALUM 6063-T6	BONNELL
14	TGF-1334	SILL COVER CAP	ALUM 6063-T6	BONNELL
15	TGF-1346	ADAPTOR AT HEAD STACK HORIZONTAL	ALUM 6063-T6	BONNELL
16	TGF-1365	GLAZING COVER	-	-
17	TGF-1401	J-HOOK ANCHOR	ALUM 6005-T5	BONNELL
18	TGF-1402	SERRATED WASHER, 2" LG.	ALUM 6005-T5	BONNELL
19	TGF-1403	MULLION MID SPAN ANCHOR	ALUM 6005-T5	BONNELL
20	TGF-1405	SPLICE / LIFTING LUG	ALUM 6005-T5	BONNELL
21	TGF-1406	JAMB SPACER	ALUM 6005-T5	BONNELL
22	TGF-1411	MULLION LUG, 2-1/8" LG. INSIDE MULLION	ALUM 6005A-T5	BONNELL
23	TGF-1412	SERRATED ANCHOR, 3" LG. AT EACH SIDE OF MULLION	ALUM 6005A-T5	BONNELL
25	CTW-1117	MULLION CLIP	ALUM 6063-T5	BONNELL
26	CTW-1123	-K FRAME JAMB/MALE VERTICAL MULLION	ALUM 6063-T6	KEYMARK CORP.
26	CTW-1123	-M FRAME JAMB/MALE VERTICAL MULLION	ALUM 6063-T6	MI METALS, INC.
26	CTW-1123	-T FRAME JAMB/MALE VERTICAL MULLION	ALUM 6063-T6	TECHNOGLASS
27	CTW-1124	-K FRAME JAMB/FEMALE VERTICAL MULLION	ALUM 6063-T6	KEYMARK CORP.
27	CTW-1124	-M FRAME JAMB/FEMALE VERTICAL MULLION	ALUM 6063-T6	MI METALS, INC.
27	CTW-1124	-T FRAME JAMB/FEMALE VERTICAL MULLION	ALUM 6063-T6	TECHNOGLASS
28	CTW-1221	FRAME HEAD/HORIZONTAL MULLION	ALUM 6063-T6	MI METALS, INC.
29	CTW-1350	ALUMINUM FRAME FILLER	ALUM 6063-T5	BONNELL
30	CTW-1352	MULLION FILLER REINFORCEMENT	ALUM 6063-T6	BONNELL
31	CTW-1360	VERTICAL DRY GASKET ADAPTOR	ALUM 6063-T6	BONNELL
32	SB-1	SETTING BLOCK, 6" LG. (2) AT 1/8 POINTS	EPDM 80 DURO	TREMCO
33	123	WATER BARRIER	-	DOWSIL
34	F1	#12-14x1-1/2"HWH SMS	ZINC PLATED STEEL	-
35	FB1	BAFFLE	EPDM CLOSED CELL FOAM	TREMCO
36	FB2	BAFFLE	EPDM CLOSED CELL FOAM	TREMCO

REVISIONS

1	2	3	4	5
GLASS REVISION	CODE COMPLIANCE			
08-28-24	09-06-26			

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T850A & T850B CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)

CT WINDOWS

d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES
9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824
(407) 857-9237

SEAL:
SCOTT WOLTERS
FL PE# 62354
WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX: (561) 225-1982

SEP 8 2026

BOM 1

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BILL OF MATERIALS				
ITEM	PART	DESCRIPTION	MATERIAL	REMARKS
37	PR	METAL PANEL POP RIVET 18" O.C.	-	-
38	F5	#12-14x1-750 HWH SMS	ZINC PLATED STEEL	VARIES
39	F10	3/8" DIA. BOLT WITH WASHERS & NUTS GRADE 5	STEEL	VARIES
39A	F10A	1/2" DIA. BOLT WITH WASHERS & NUTS GRADE 5	STEEL	VARIES
40	F11	5/8"-11 X 2-1/2" TAP-TITE BOLTS, (2) PER CLIP	ZINC PLATED STEEL	VARIES
41	F14	3/8" X 1-3/4" FH BOLT W/ FLAT WASHER AND LOCK NUT	ZINC PLATED STEEL	VARIES
42	F25	1/4" X 1" HEX HEAD THRU BOLT W/ WASHER AND LOCK NUT	ZINC PLATED STEEL	VARIES
43	F27	#14 x 2" LG. HWH SDS	ZINC PLATED STEEL	VARIES
44	-	SPACER	ALUMINUM	ALL METAL, INC,
45	-	2" X 2" X 1/4" THK. ALUM. ANGLE. (3-3/4" LG. AT BOTH SIDES OF MULLION)	ALUMINUM	HALL METALS
46	AP1	END DAM	METAL	C.T. WINDOWS
47	AP2	END DAM AT DOOR JAMB	METAL	C.T. WINDOWS
48	AP6	GUTTER SPLICE PLATE	METAL	C.T. WINDOWS
49	G1	PRESET WIPER GASKET	EPDM 70 DURO	TREMCO
50	G2	PRESET AIR SEAL BULB GASKET	EPDM 70 DURO	TREMCO
51	G3	PRESET RUN SCREEN GASKET	EPDM 60 DURO	TREMCO
51A	G3B	GASKET	EPDM 70 DURO	TREMCO
52	G4	GASKET	EPDM 70 DURO	TREMCO
53	TR-5796	GASKET	EPDM 60/70 DURO	TREMCO
54	G6	PRESET GLASS EDGE BULB GASKET	EPDM 70 DURO	TREMCO
55	G7	PRESET AIR SEAL WIPE GASKET	EPDM 70 DURO	TREMCO
56	G8	ACCORDION RAIN SCREEN GASKET	EPDM 60 DURO	TREMCO
57	S1	DOWSIL 983 or PROGLAZE II + BASE or MOMENTIVE 4600A BASE, 4603B CATALYST	SILICONE	DOWSIL/MOMENTIVE
58	S2	DOWSIL 795 or SPECTRUM 2 or MOMENTIVE 2350 / 2000	SILICONE	DOWSIL/MOMENTIVE
59	S3	DOWSIL 791 or SPECTRUM 1 or MOMENTIVE 2350 / 2000	SILICONE	DOWSIL/MOMENTIVE
60	S4	DOWSIL 795 OR SPECTRUM 2 OR MOMENTIVE 2350 / 2000	SILICONE	DOWSIL/MOMENTIVE
61	CTW-1392	PRESSURE PLATE	ALUM 6063-T6	KEYMARK CORP.
62	AP-8	0.125" X 1 13/16" ALUM. PLATE (J HOOK SPLICE PLATE)	ALUM 6063-T5	C.T. WINDOWS
63	TR-893E	GASKET	60 DUROMETER	TREMCO
64	R1	3/8" X 4 3/8" STEEL BAR	STEEL	VARIES
65	R2	3/8" X 3 1/2" STEEL BAR	STEEL	VARIES
66	R3	1/2" X 4" STEEL BAR	STEEL	VARIES
67	CTW-1125	90° INSIDE CORNER MALE MULLION	ALUM 6063-T6	C.T. WINDOWS
68	CTW-1126	90° INSIDE CORNER FEMALE MULLION	ALUM 6063-T6	C.T. WINDOWS
69	TGF-1127	90° OUTSIDE CORNER MALE MULLION	ALUM 6063-T6	C.T. WINDOWS
70	TGF-1128	90° OUTSIDE CORNER FEMALE MULLION	ALUM 6063-T6	C.T. WINDOWS
71	CTW-1115	90° INSIDE CORNER ANTI-BUCKLING CLIP	ALUM 6063-T6	C.T. WINDOWS

REVISIONS

GLASS REVISION	08-28-24
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T850A & T850B CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)

CT WINDOWS

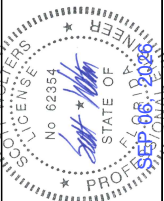
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SEAL: 

BOM 2

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SHEET NO.
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BILL OF MATERIALS				
ITEM	PART	DESCRIPTION	MATERIAL	REMARKS
72	TGF-1352	OUTSIDE CORNER CLOSURE FOR 1-5/16" GLASS	ALUM 6063-T6	C.T. WINDOWS
73	TGF-1353	OUTSIDE CORNER CLOSURE FOR 1-5/16" GLASS	ALUM 6063-T6	C.T. WINDOWS
74	TGF-1356	INSIDE CORNER CLOSURE FOR 1-5/16" GLASS	ALUM 6063-T6	C.T. WINDOWS
75	TGF-1357	INSIDE CORNER CLOSURE FOR 1-5/16" GLASS	ALUM 6005-T5	C.T. WINDOWS
76	TGF-1404	J-ANCHOR ANTI-LIFT CLIP	ALUM 6005-T5	BONNELL
77	TGF-1407	ANCHOR BRACKET	ALUM 6005A-T5	BONNELL
78	TGF-1408	CORNER ANCHOR BRACKET	ALUM 6005A-T5	C.T. WINDOWS
79	TGF-1103	ALUM. TAPPING PLATE	-	BONNELL
80	G10	GASKET	60 DURO SILICONE	TREMCO
81	CTW-1381	FACE COVER	ALUM 6005A-T5	C.T. WINDOWS
82	WLB-2004	PERIMETER POCKET FILLER	ALUM 6063-T6	C.T. WINDOWS
83	WLB-2005	PERIMETER POCKET FILLER	ALUM 6063-T6	C.T. WINDOWS
84	ST114	SQUARE TUBE EXTRUSION	ALUM 6063-T6	SAF
85	-	PLASTIC SHIM / SLIP PAD (1/16" MIN.)	PLASTIC	-
86	TGF-1413	"F" ANCHOR	ALUM 6005-T5	C.T. WINDOWS
87	TGF-1414	"T" ANCHOR	ALUM 6005-T5	C.T. WINDOWS
88	R4	1/2" X 3 1/2" STEEL BAR	STEEL	VARIES
89	R5	1/4" X 4" STEEL BAR	STEEL	VARIES
90	R6	3/8" X 3 1/2" STEEL BAR	STEEL	VARIES
91	CTW-1131	FRAME JAMB / MALE VERTICAL MULLION	ALUM 6063-T6	BONNELL
92	CTW-1132	FRAME JAMB / FEMALE VERTICAL MULLION	ALUM 6063-T6	BONNELL
93	R7	1/4" X 3 1/2" STEEL BAR	STEEL	VARIES
94	CTW-1147	JAMB MULLION	ALUM 6063-T6	C.T. WINDOWS
95	TP100	THERMAL BOND SPACER TAPE 1/4"x1 1/2"	-	VARIES
96	SB-3	SETTING BLOCK. 4" LG. (2) PER D.L.O. AT 1/8 POINTS	EPDM 80 DURO	TREMCO
97	TGF-1319A	INTERMEDIATE HORIZONTAL SETTING CHAIR	ALUM 6063-T6	BONNELL
98	SB-4	SETTING BLOCK. 4" LG. (2) PER D.L.O. AT 1/8 POINTS	EPDM 80 DURO	TREMCO
99	4542	CHANNEL EXTRUSION	ALUM 6063-T6	SAF
100	5714	CHANNEL EXTRUSION	ALUM 6063-T6	SAF
101	CTW-1231	SILL STARTER	ALUM 6063-T6	KEYMARK CORP.
102	G10	GASKET	60 DURO SILICONE	TREMCO
103	AP8	END DAM	ALUMINUM	C.T. WINDOWS
104	AP9	GUTTER SPLICE PLATE	ALUMINUM	C.T. WINDOWS
105	F20	#8-18x1/2" HH TEK	ZINC PLATED STEEL	VARIES
106	CTW-1423	S-HOOK ANCHOR	ALUM 6063-T6	KEYMARK CORP.

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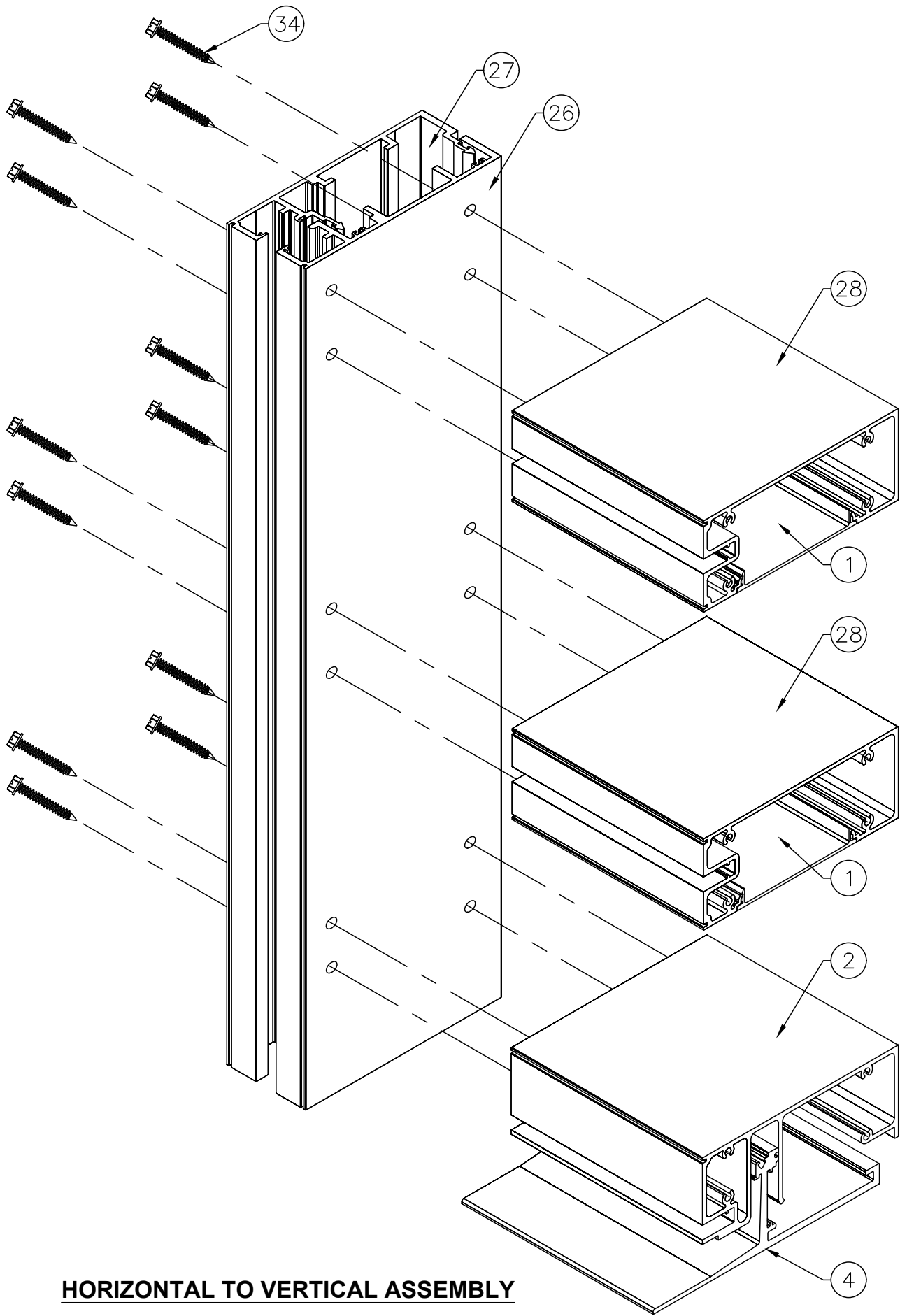
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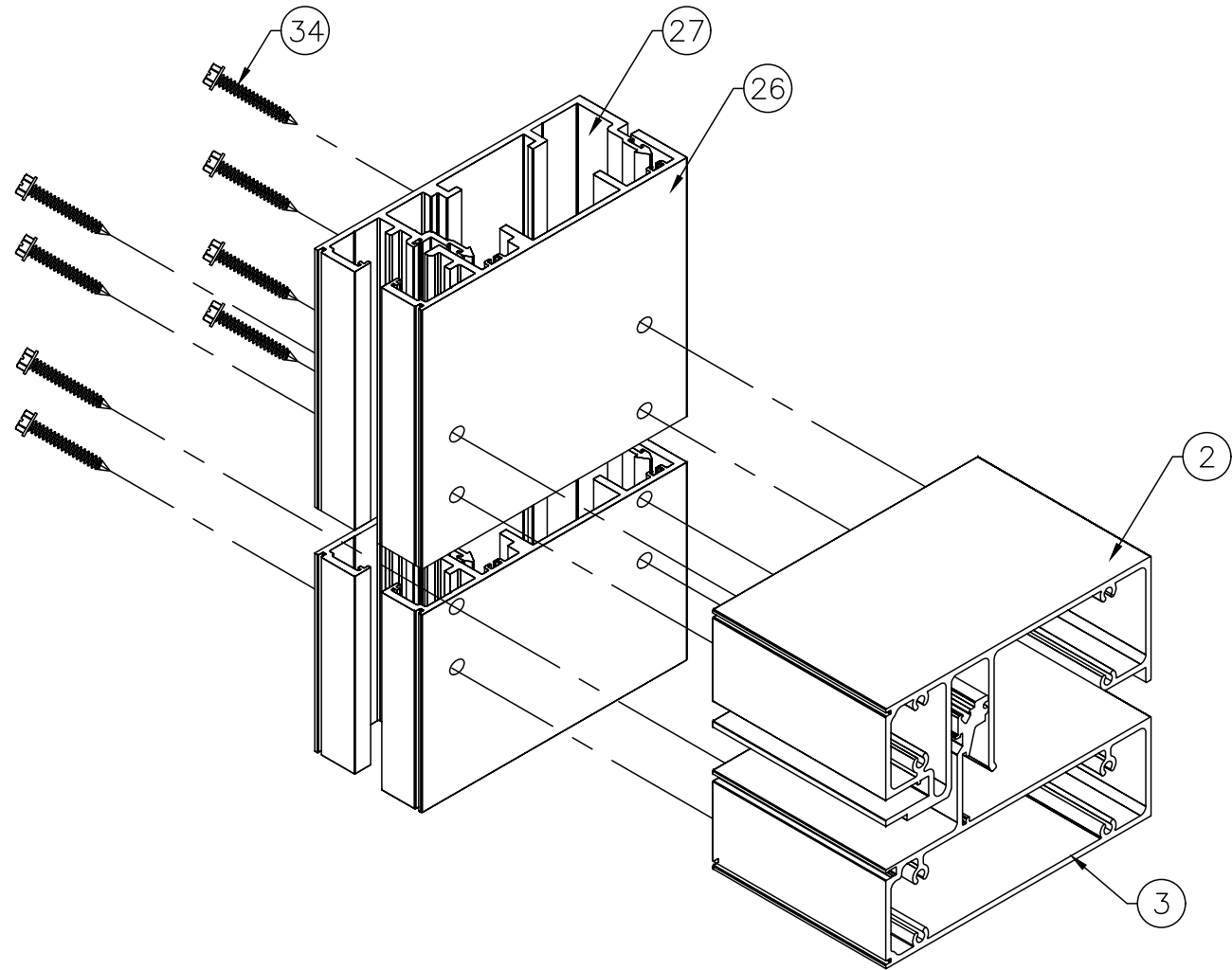
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HORIZONTAL TO VERTICAL ASSEMBLY



STACK HORIZONTAL ASSEMBLY

REVISIONS		T850A & T850B CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)		d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES	
1	GLASS REVISION	08-28-24	9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824		
2	CODE COMPLIANCE	09-06-26	(407) 857-9237		
3					
4					
5					
DRAWN BY: HG					
DATE: 01/04/2024					
SEAL:		SCOTT WOLTERS FL PE# 62354			
		WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 PH/FAX: (561) 225-1982			
ASSEMBLY		DRAWING NO. AAT1-23			
		SHEET NO. 33 of 33			

SEP 06 2026