

ES-8860i LARGE MISSILE IMPACT ALUMINUM WINDOW WALL SYSTEM WITH INSULATED LAMINATED GLASS

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2023 (8TH EDITION) FLORIDA BUILDING CODE INCLUDING THE REQUIREMENTS FOR HIGH VELOCITY HURRICANE ZONES (HVHZ).

THE CONTRACTOR USING THIS PRODUCT APPROVAL SHALL BE RESPONSIBLE TO INSTALL THE GLAZING PRODUCT HEREBY EVALUATED ACCORDING TO THIS DOCUMENT.

A QUALIFIED LICENSED DESIGN PROFESSIONAL (PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT) SHALL BE RESPONSIBLE TO PROVIDE THE LOADS THAT THE GLAZING SYSTEM IS TO WITHSTAND IN A SPECIFIC PROJECT. THOSE LOADS ARE TO BE COMPARED WITH THE ALLOWABLE LOADS HEREIN INDICATED ACCORDING TO THE INSTRUCTIONS ON THE RIGHT OF THE PAGE.

THE DESIGN PROFESSIONAL REponsible FOR THE SCOPE IN THE SPECIFIC PROJECT WHERE THIS PRODUCT APPROVAL IS TO BE USED WILL BECOME THE ENGINEER OF RECORD AND WILL BE RESPONSIBLE OF THE PROPER USE OF THIS DOCUMENT.

DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'

ANCHORS TO BE INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO SUBSTRATE SHALL BE BEYOND FINISHES.

ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL BE ISOLATED TO MEET THE REQUIREMENTS OF THE 2026 FLORIDA BLDG. CODE.

CONDITIONS NOT SHOWN IN THESE DRAWINGS ARE TO BE ANALYZED SEPARATELY; THEY ARE NOT COVERED BY THIS PRODUCT APPROVAL.

PRODUCT LABELS TO COMPLY WITH SECTIONS 1709.9.2 AND 1709.9.3 OF THE FLORIDA BUILDING CODE.

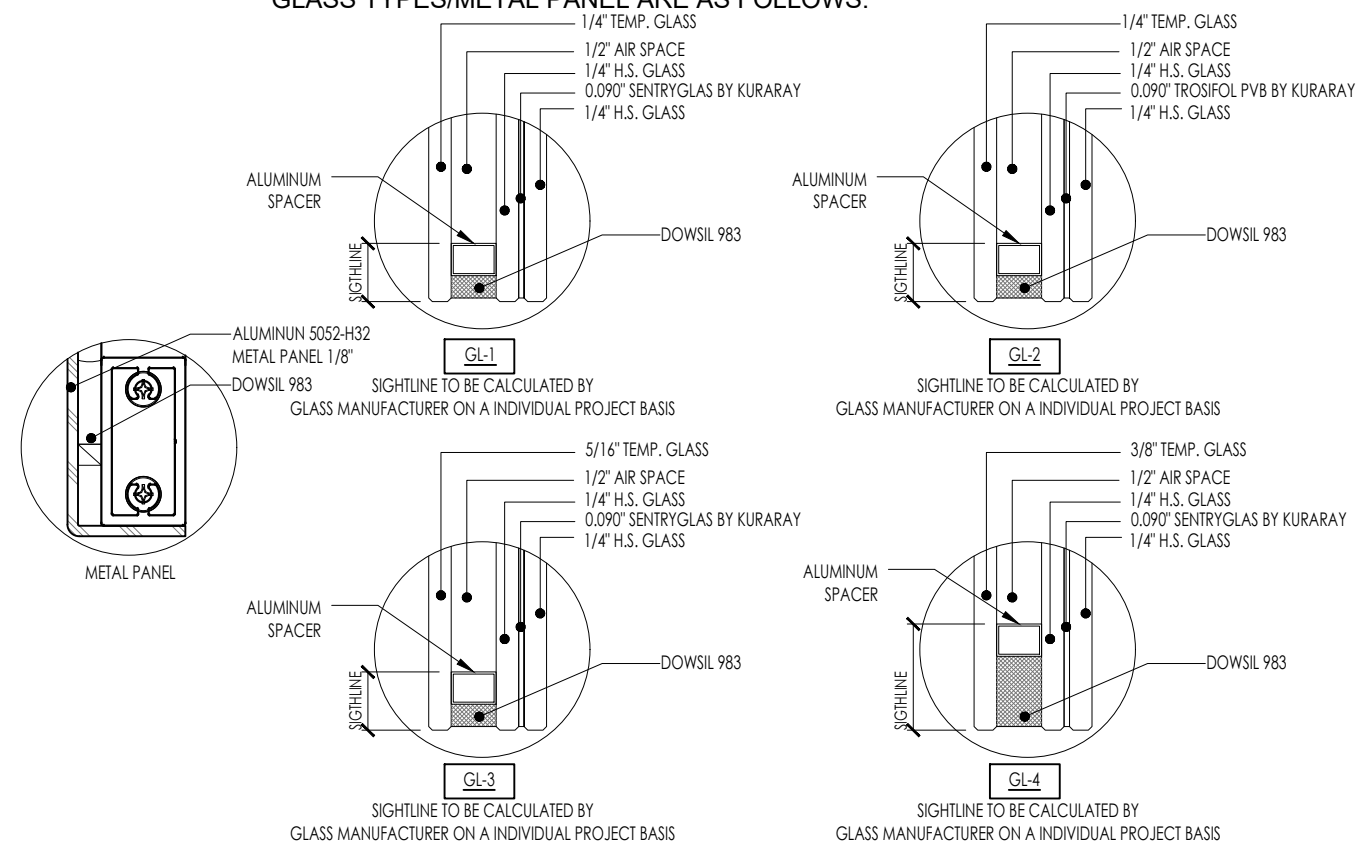
THIS GLAZING SYSTEM IS RATED FOR LARGE MISSILE IMPACT (LEVEL D). PROTECTIVE SHUTTERS ARE NOT REQUIRED.

THIS DOCUMENT ADDRESSES ONLY THE STRUCTURAL COMPLIANCE OF THE GLAZING SYSTEM. ENERGY VALUES, THERMAL INFORMATION OR GLASS MANUFACTURING RESTRICTIONS SUCH AS COMPATIBILITY WITH ENERGY PERFORMANCE FILMS. ARE OUT OF THE SCOPE OF THIS DOCUMENT.

INSTRUCTIONS:
USE CHARTS AS FOLLOWS.

STEP 1 DETERMINE DESIGN WIND PRESSURE REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.

STEP 2 SEE CHARTS ON SHEETS 9 THRU 14 FOR GLASS DESIGN LOAD CAPACITY. THIS APPROVAL DOCUMENT INCLUDES FOUR GLASS TYPES AND A METAL PANEL THESE CAN BE EITHER CAPTURED OR STRUCTURALLY GLAZED. THE GLASS TYPES/METAL PANEL ARE AS FOLLOWS:



STEP 3 CHECK MULLION DESIGN LOAD CAPACITY FOR A GIVEN WIDTH AND HEIGHT USING CHARTS ON SHEETS 15 THRU 24.

STEP 4 USING CHARTS ON SHEET 25 AND 26 SELECT ANCHOR OPTION WITH DESIGN LOAD CAPACITY THAT EXCEEDS OR MATCHES DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.

STEP 5 THE LOWEST VALUE RESULTING FROM STEPS 2 THRU 4 THAT EXCEED/MATCHES THE DESIGN WIND PRESSURES DETERMINED THRU STEP 1 SHALL APPLY TO ENTIRE SYSTEM.

E.S.
WINDOWS, LLC

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FAX. (305) 638-5158

PROJECT
ES-8860i ALUMINUM
WINDOW WALL SYSTEM
LARGE MISILE IMPACT

FL #44674.1

DRAWING REVISION LOG		
No.	Date:	Revision:

ENGINEER:
**DEERFIELD
TECHNICAL INC.**
CA# 36112
111 NORTH ORANGE AVE.
SUITE 800
ORLANDO, FL 32801

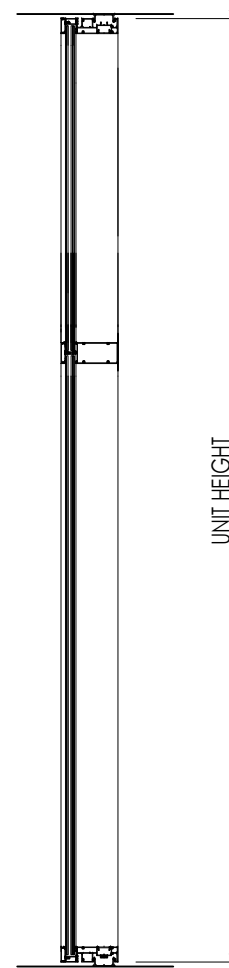
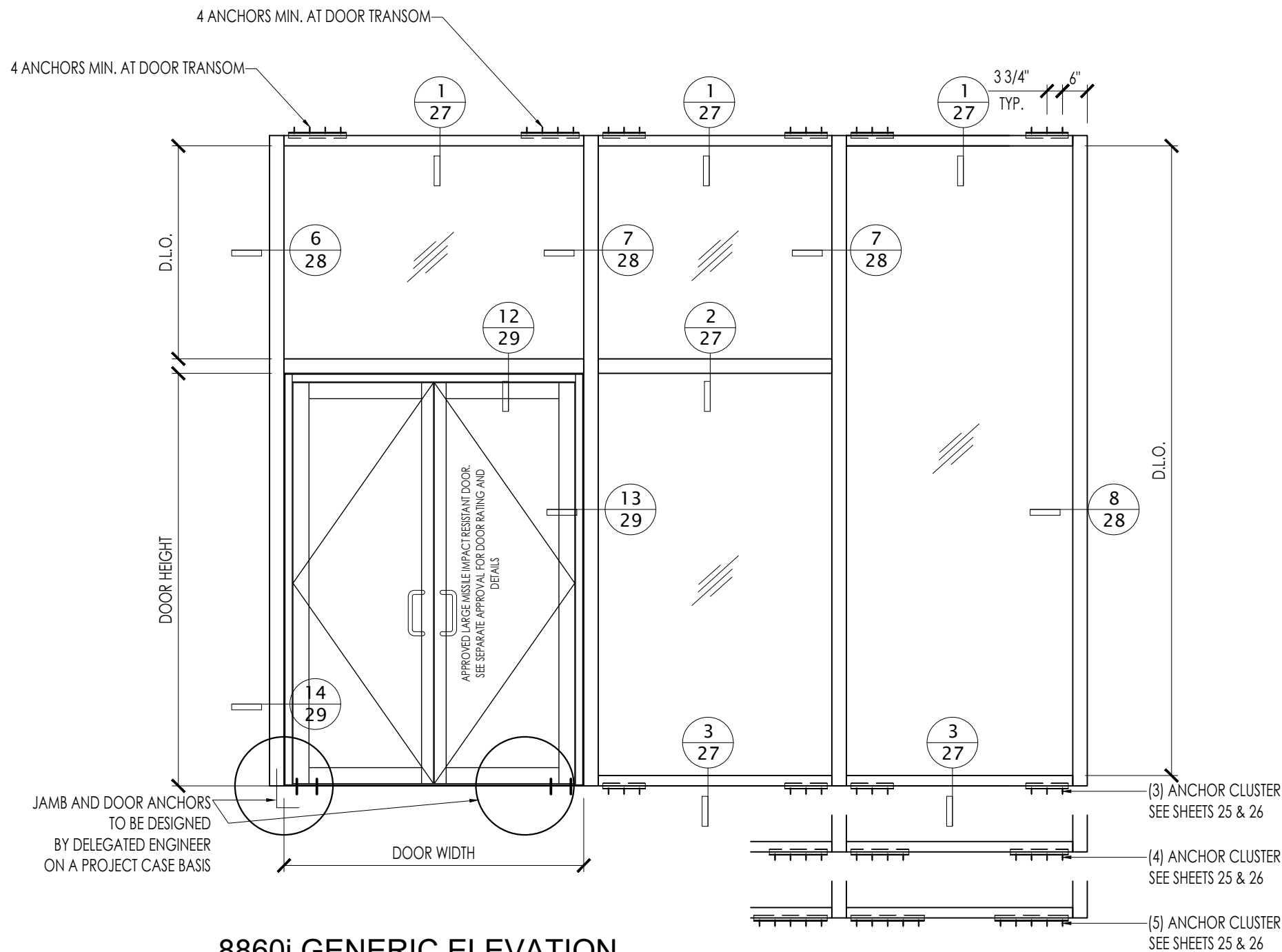
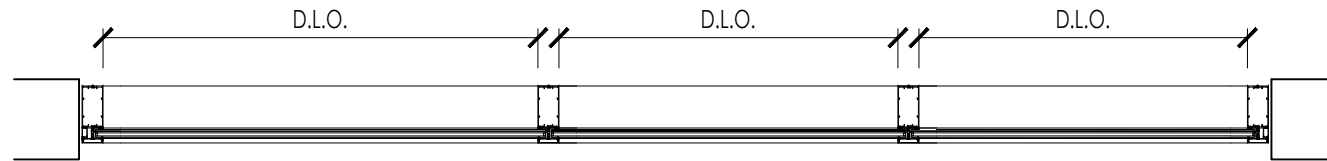
CHECKED FOR STRUCTURAL
COMPLIANCE ONLY. BY:

JOHN FREDY DELGADO
LICENSE
No. 94078
09/10/2026
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
JOHN DELGADO, P.E.
FL. REG. # 94078

John Delgado
Digitally signed by John Delgado
DN: cn=John Delgado,
ou=Deerfield Technical Inc., c=US
Location: Orlando, FL
Reason: I am approving this document
Contact info: 305.613.7882 or
John_Delgado@dtinc.com

This item has been Digitally Signed and sealed by
John Delgado, P.E. on the date adjacent to the seal.
Printed copies of this document are not considered
signed and sealed and the signature must be
verified on any electronic copies.

PREPARED BY	DRAFTED BY	DATE
AC	SV	12/15/2023
DWG NUMBER	SCALE	
DT-PA-ESW-001	N.T.S.	
PAGE	1 OF 47	



**8860i GENERIC ELEVATION
CAPTURED SYSTEM WITH DOOR**

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WINDOW WALL SYSTEM
LARGE MISSILE IMPACT

FL #44674.1

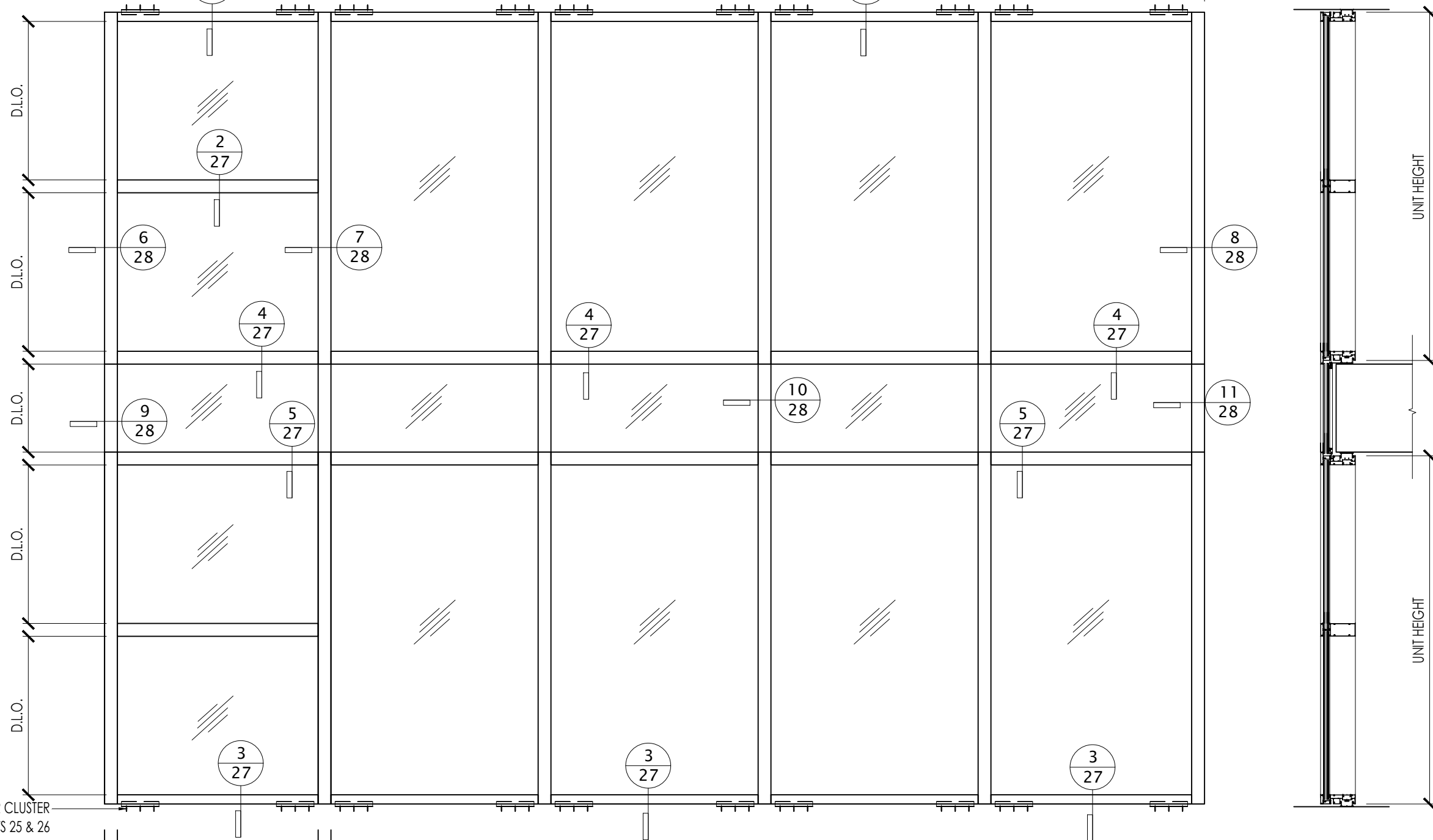
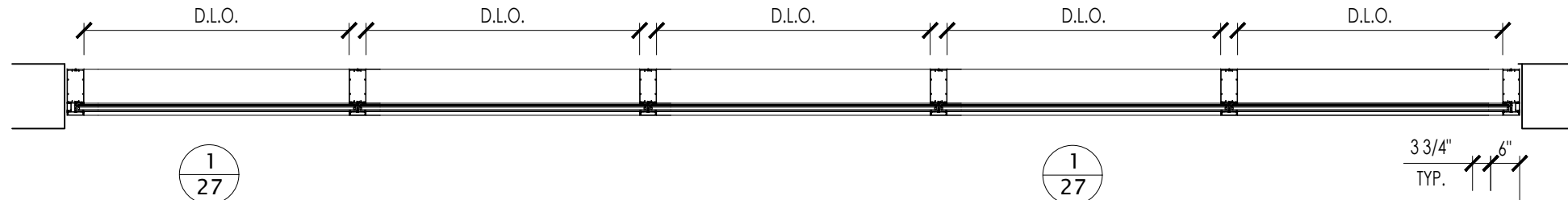
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DWG NUMBER DT-PA-ESW-001	SCALE 3/8"=1'-0"	
PAGE 2 OF 47		



(3) ANCHOR CLUSTER
SEE SHEETS 25 & 26

(4) ANCHOR CLUSTER
SEE SHEETS 25 & 26

(5) ANCHOR CLUSTER
SEE SHEETS 25 & 26

8860i GENERIC ELEVATION
CAPTURED SYSTEM WITH SLAB COVER

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LARGE MISILE IMPACT

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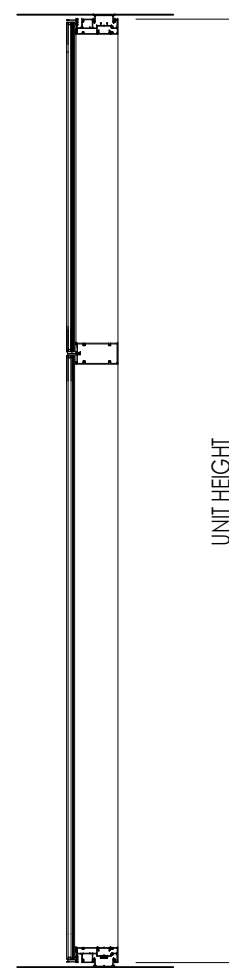
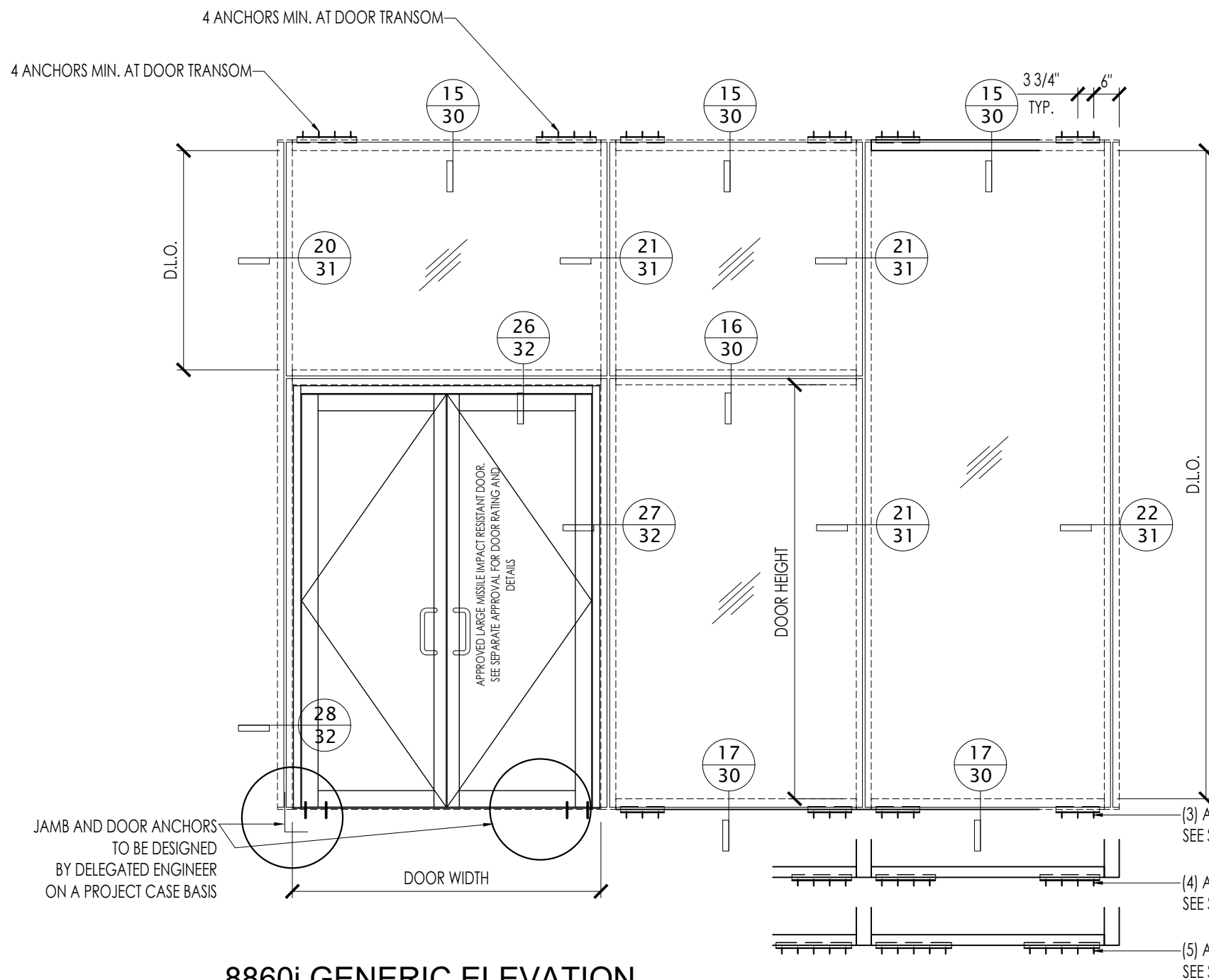
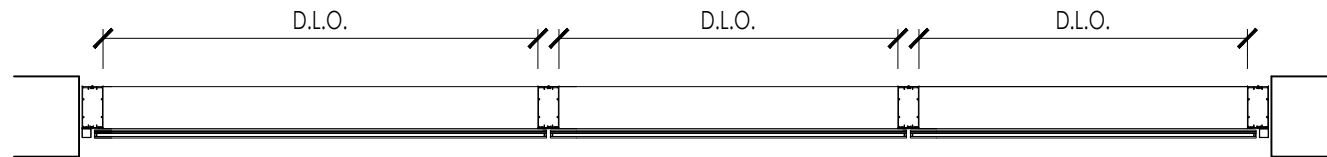
ENGINEER:
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DWG NUMBER	SCALE	
DT-PA-ESW-001	3/8"=1'-0"	
PAGE	3 OF 47	



**8860i GENERIC ELEVATION
BUTT JOINT SYSTEM WITH DOOR
(STRUCTURALLY GLAZED)**

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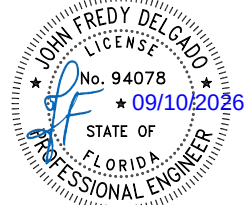
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LARGE MISSILE IMPACT

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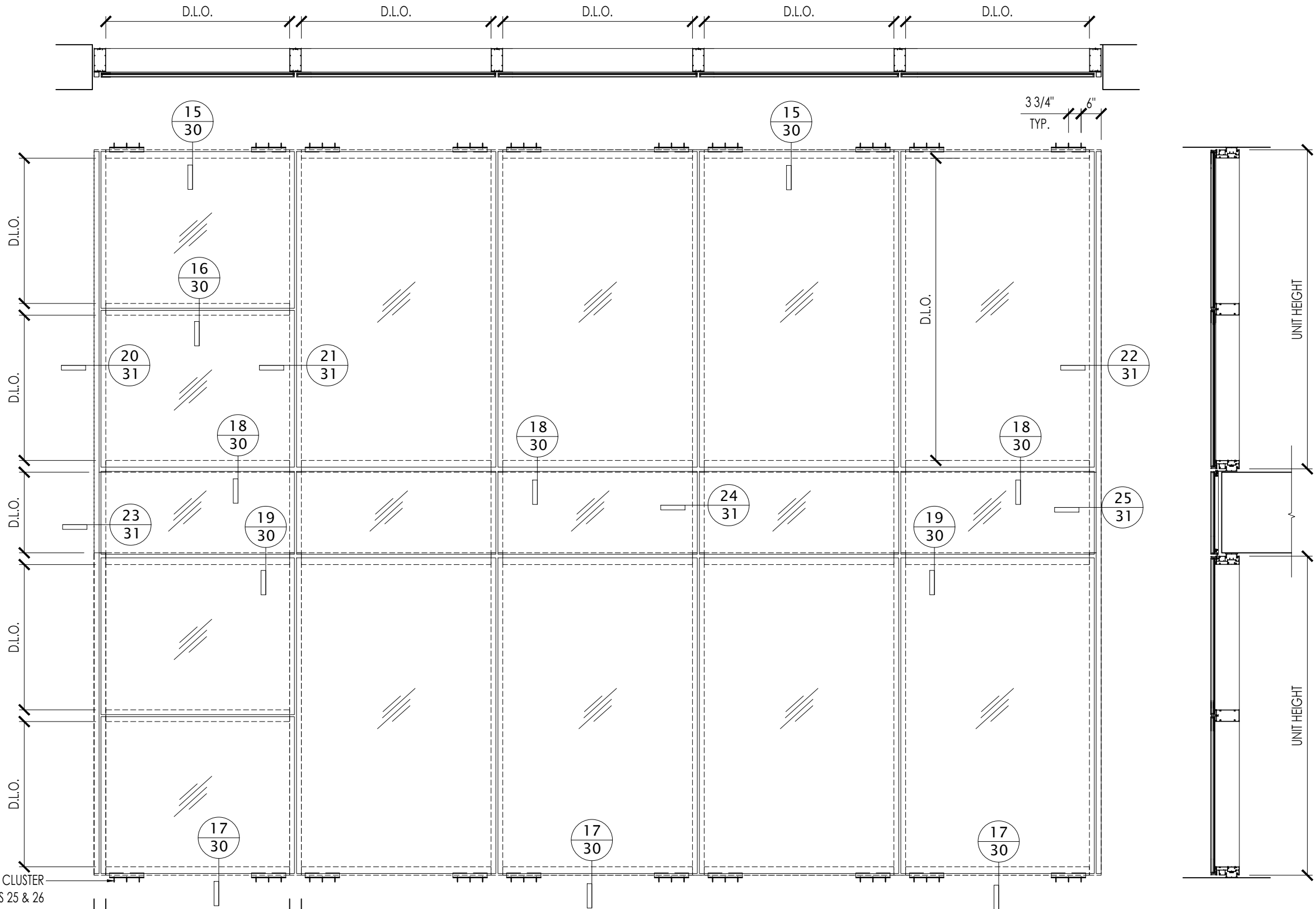
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DWG NUMBER DT-PA-ESW-001	SCALE 3/8"=1'-0"	
PAGE 4 OF 47		



- (3) ANCHOR CLUSTER
SEE SHEETS 25 & 26
- (4) ANCHOR CLUSTER
SEE SHEETS 25 & 26
- (5) ANCHOR CLUSTER
SEE SHEETS 25 & 26

8860i GENERIC ELEVATION BUTT JOINT SYSTEM WITH SLAB COVER (STRUCTURALLY GLAZED)

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WINDOW WALL SYSTEM
LARGE MISILE IMPACT

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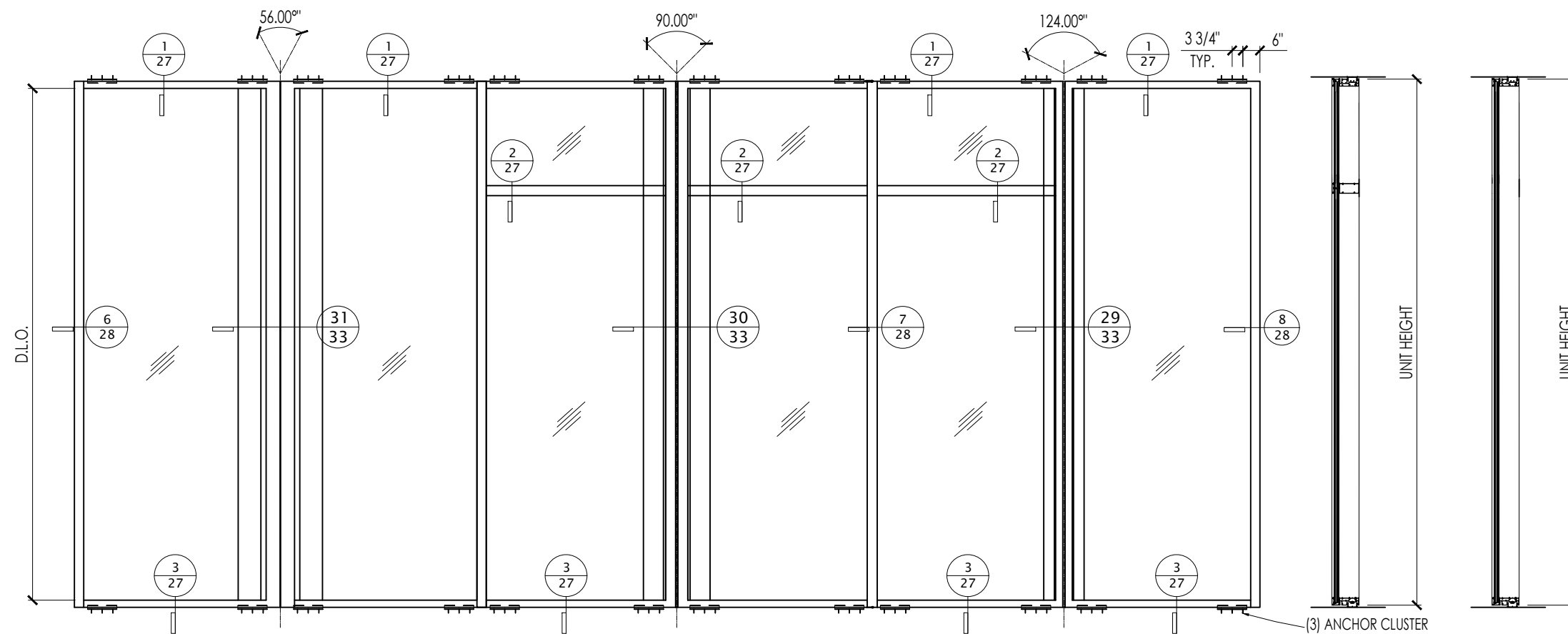
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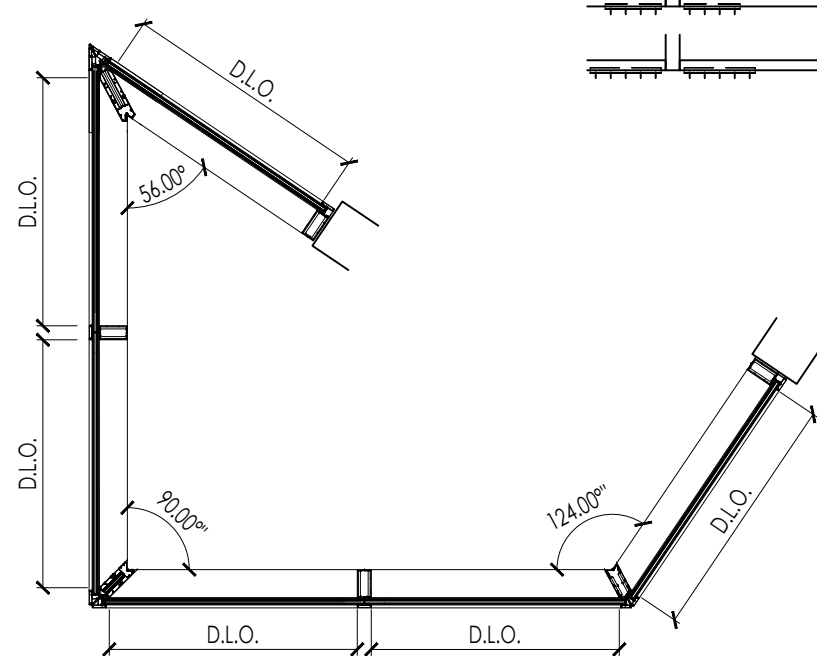
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PAGE 5 OF 47		



- (3) ANCHOR CLUSTER
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SEE SHEETS 25 & 26
- (5) ANCHOR CLUSTER
SEE SHEETS 25 & 26



8860i GENERIC ELEVATION
CAPTURED SYSTEM

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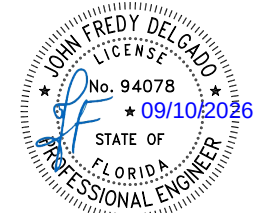
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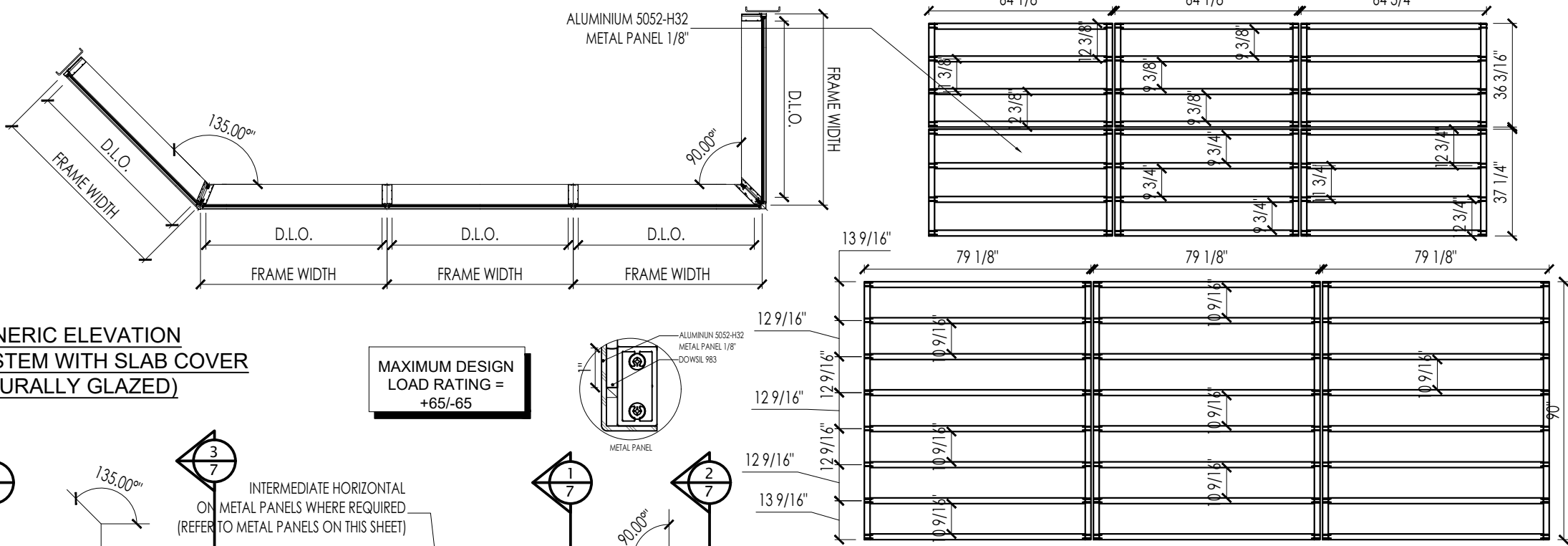
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METAL PANELS MAX. DIMENSIONS



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ES-8860i ALUMINUM
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LARGE MISILE IMPACT

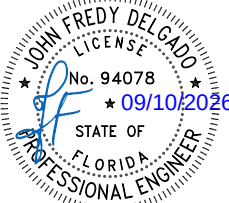
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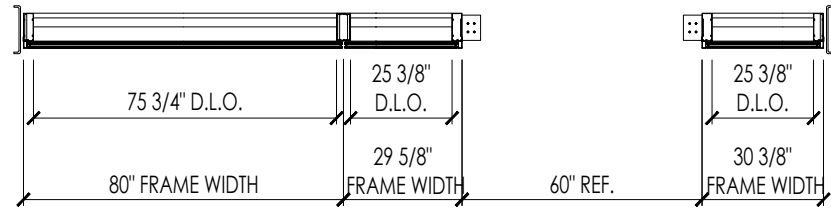
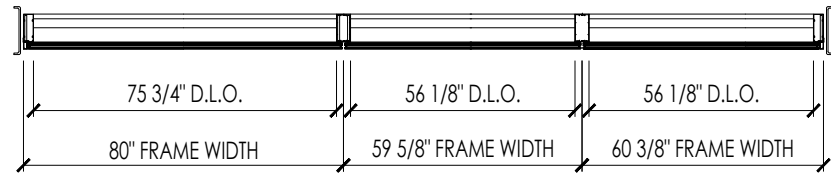
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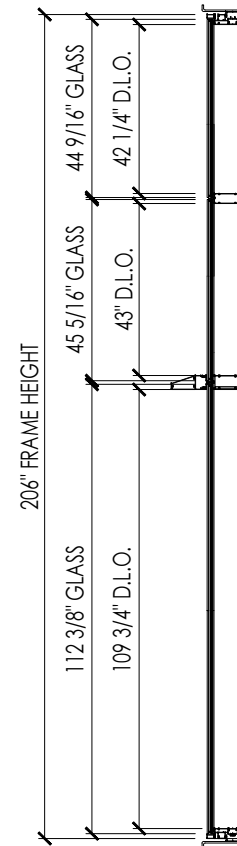
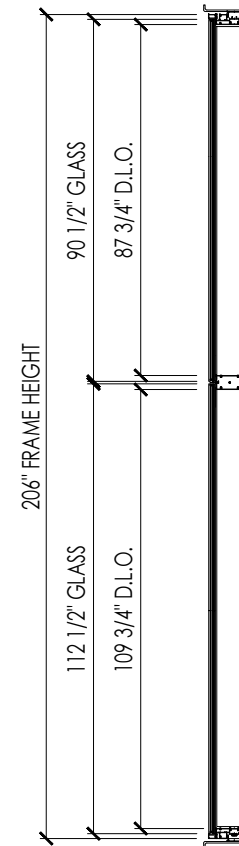
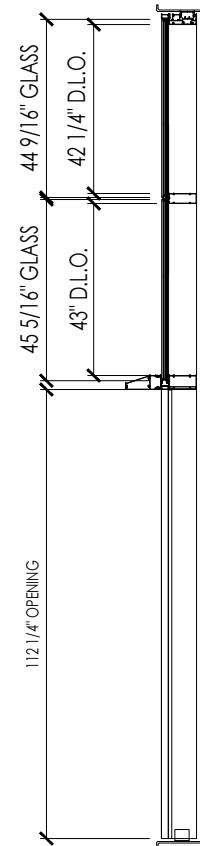
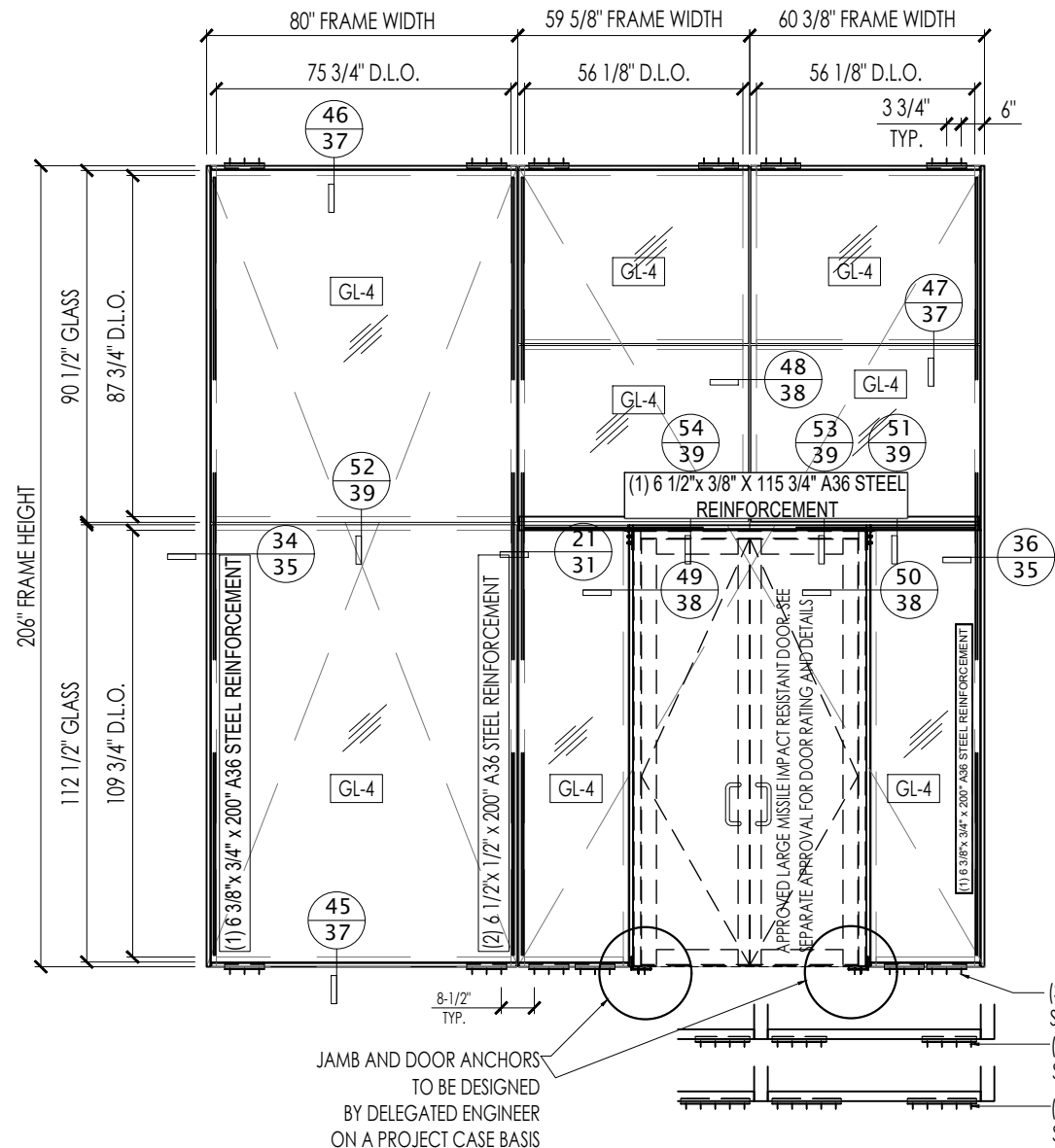
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- (3) ANCHOR CLUSTER
SEE SHEETS 25 & 26
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SEE SHEETS 25 & 26
- SECTION 1 SECTION 2 SECTION 3 SECTION 4

PREPARED BY AC	DRAFTED BY SV	DATE 12/15/2023
DWG NUMBER DT-PA-ESW-001	SCALE 1/4"=1'-0"	
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8860i ELEVATION BUTT
JOINT SYSTEM WITH DOOR
(STRUCTURALLY GLAZED)



MAXIMUM DESIGN
LOAD RATING =
+65/-65

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PROJECT
ES-8860i ALUMINUM
WINDOW WALL SYSTEM
LARGE MISSILE IMPACT

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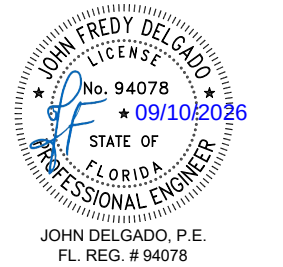
No.	Date:	Revision:

ENGINEER:

DEERFIELD
TECHNICAL INC.
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ORLANDO, FL 32801

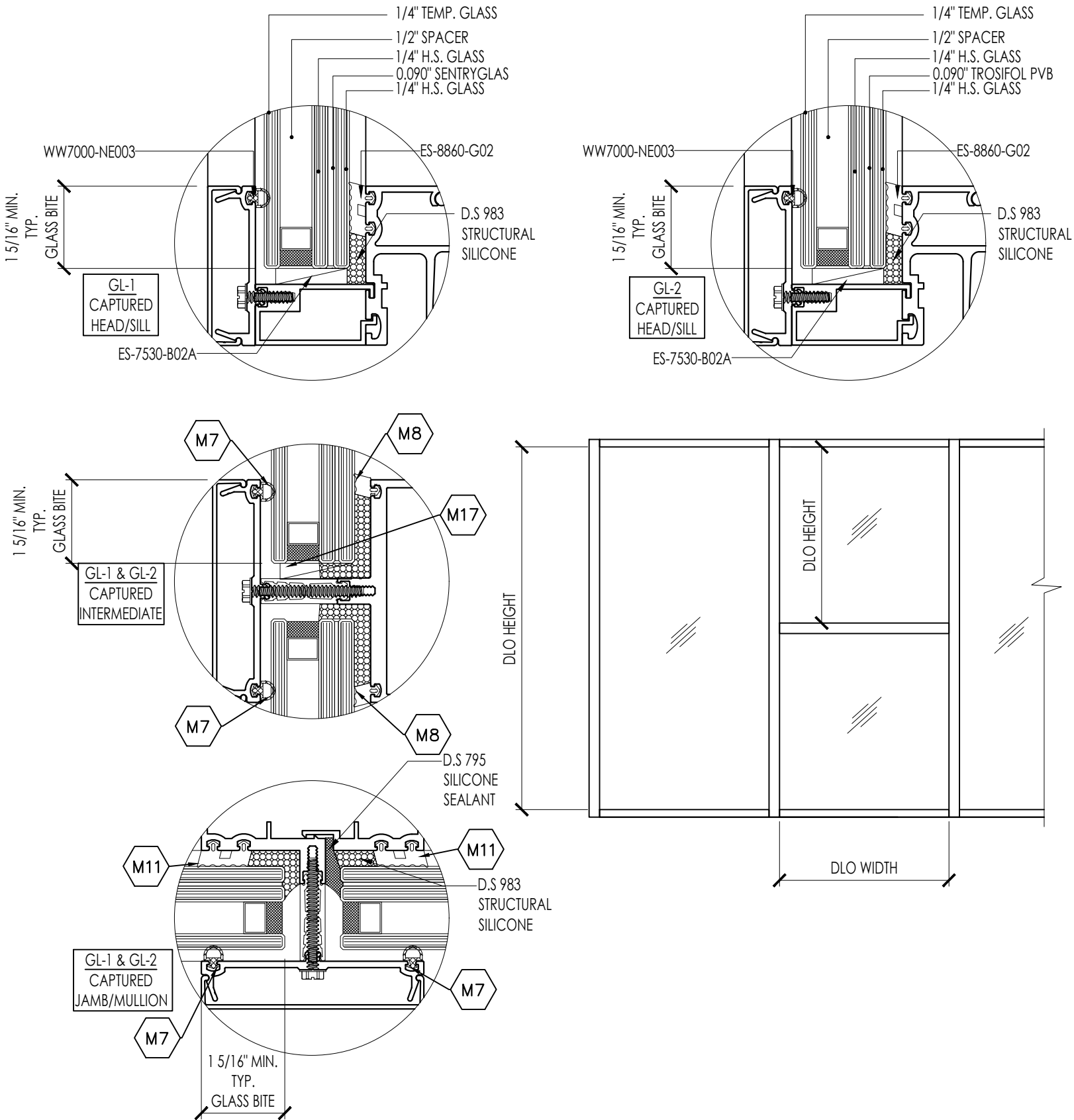
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DWG NUMBER DT-PA-ESW-001	SCALE 1/4"=1'-0"	PAGE 8 OF 47

DESIGN LOAD CAPACITY- PSF EXT.(+) & INT. (-)					
NOMINAL DIMENSIONS		GL-1		GL-2	
DLO WIDTH	DLO HEIGHT	+	-	+	-
38	78	150	150	80	80
42		150	150	80	80
48		150	150	80	80
56		150	150	80	80
38	84	150	150	80	80
42		150	150	80	80
48		150	150	80	80
56		150	150	80	80
38	90	150	150	80	80
42		150	150	80	80
48		150	150	80	80
56		150	150	80	80
38	96	150	150	80	80
42		150	150	80	80
48		150	150	80	80
56		150	150	80	80
38	102	150	150	80	80
42		150	150	80	80
48		150	150	80	80
56		150	150	80	80
42	108	150	150	80	80
48		150	150	80	80
52		150	150	80	80
56		55	55	80	80
42	114	150	150	80	80
48		150	150	80	80
50		150	150	80	80
56		55	55	80	80
42	121	150	150	-	-
46		150	150	-	-
48		55	55	-	-
56		55	55	-	-
44	127	150	150	-	-
48		55	55	-	-
52		55	55	-	-
56		55	55	-	-
38	133	150	150	-	-
42		150	150	-	-
48		55	55	-	-
54		55	55	-	-
40	139	150	150	-	-
42		55	55	-	-
48		55	55	-	-
56		55	55	-	-
38	145	150	150	-	-
42		55	55	-	-
48		55	55	-	-
54		55	55	-	-
38	151	150	150	-	-
42		55	55	-	-
48		55	55	-	-
52.5		55	55	-	-

CAPTURED GLASS
GLASS CAPACITY TABLE



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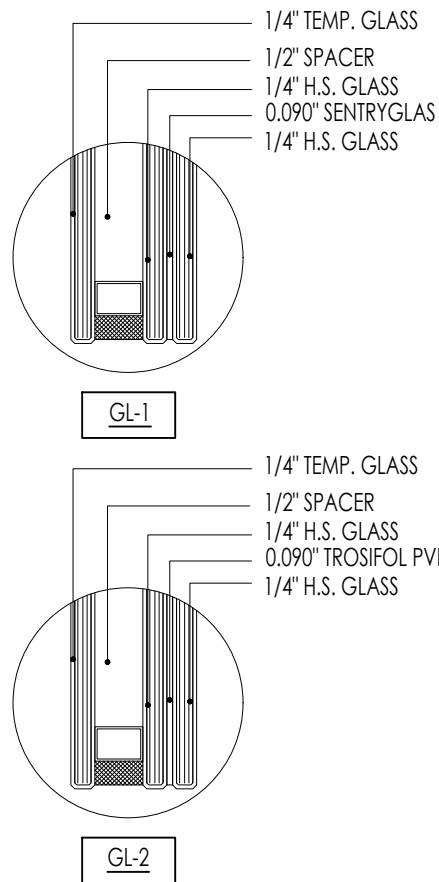
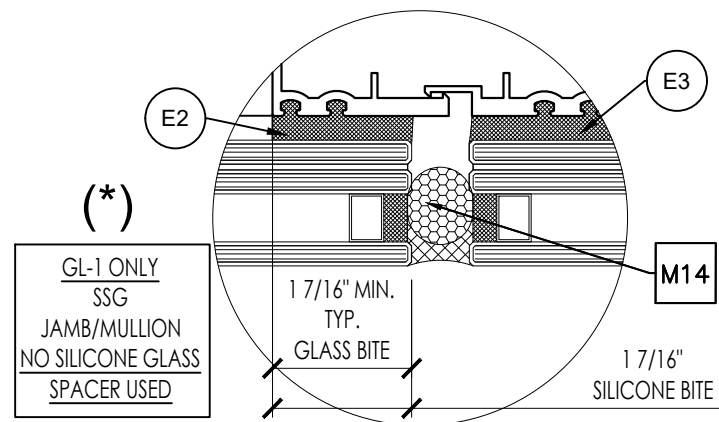
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DWG NUMBER DT-PA-ESW-001	SCALE 6"=1'-0"	
PAGE 9 OF 47		

MAXIMUM DESIGN LOAD CAPACITY- PSF EXT.(+) & INT. (-)					
NOMINAL DIMENSIONS		GL-1		GL-2	
DLO WIDTH	DLO HEIGHT	+	-	+	-
38	78	150	150	80	80
43		150	150	80	80
48		150 *	150 *	80	80
54		150 *	150 *	80	80
56		147 *	147 *	80	80
38	84	150	150	80	80
43		150	150	80	80
48		150 *	150 *	80	80
54		150 *	150 *	80	80
56		147 *	147 *	80	80
38	90	150	150	80	80
43		150	150	80	80
48		150 *	150 *	80	80
54		150 *	150 *	80	80
56		147 *	147 *	80	80
38	96	150	150	80	80
43		150	150	80	80
48		150 *	150 *	80	80
54		150 *	150 *	80	80
56		147 *	147 *	80	80
38	102	150	150	80	80
43		150	150	80	80
48		150 *	150 *	80	80
54		150 *	150 *	80	80
56		147 *	147 *	80	80
38	108	150	150	80	80
43		150	150	80	80
48		150 *	150 *	80	80
54		150 *	150 *	80	80
56		55	55	80	80
38	114	150	150	80	80
43		150	150	80	80
48		150 *	150 *	80	80
50		150 *	150 *	80	80
54		150 *	150 *	80	80
56		55	55	80	80

(*) FOR GL-1 ONLY: DESIGN PRESSURES SHOWN ON TABLE ABOVE FOR THE SPECIFIC SIZES INDICATED ARE ALLOWED WITH NO SILICONE GLASS SPACER USED IN MULLION. SEE DETAIL BELOW. SEE TABLE ON THE RIGHT FOR CAPACITY WITH SPACER GASKET

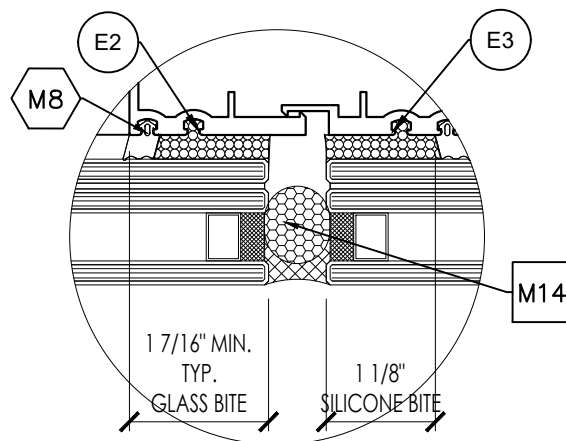


FOR GL-1: CAPACITY IS WITH NO SPACER GASKET.
SEE NOTE (*) BELOW & TABLE TO THE RIGHT
FOR CAPACITY WITH SPACER GASKET

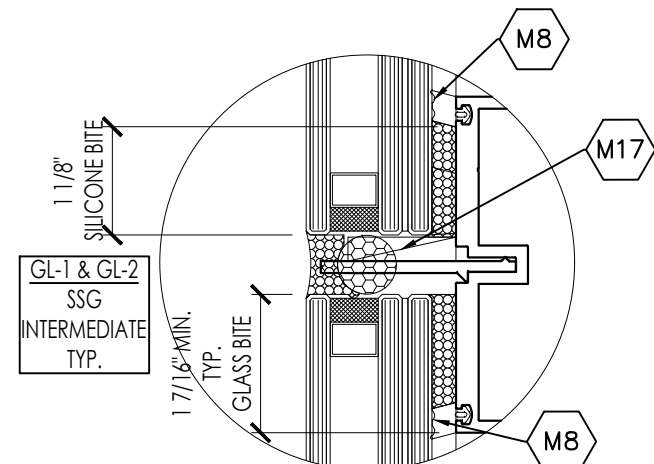
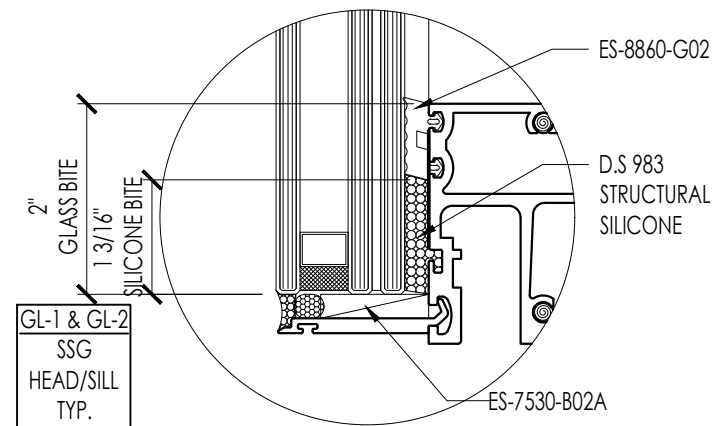
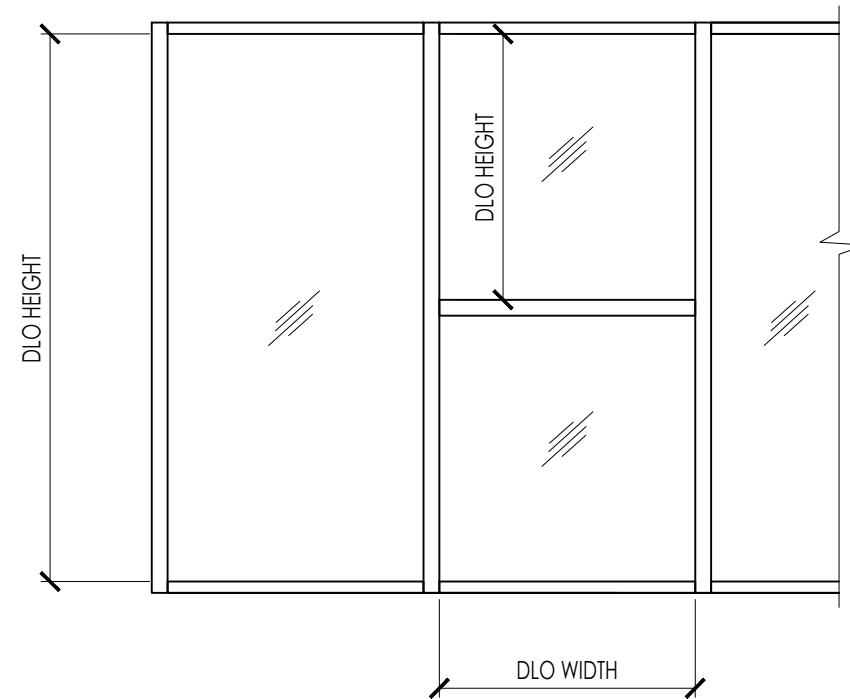
FOR GL-1 ONLY: CAPACITY TABLE OF GLASS WITH
SPACER GASKETS IN THE MULLION. SEE DETAIL BELOW.

NOMINAL DIMENSIONS		GL-1	
DLO WIDTH (W)	DLO HEIGHT (H)	PSF (+)	PSF (-)
48	48 < H <= 114	142	142
50	50 < H <= 114	136	136
54	54 < H <= 114	126	126
56	56 < H <= 102	122	122
56	102 < H <= 114	55	55

GL-1 & GL-2 SSG JAMB/MULLION
WITH SILICONE SPACER GASKET



STRUCTURALLY GLAZED (SSG) GLASS CAPACITY TABLE



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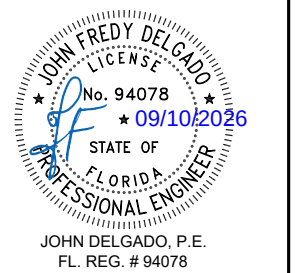
PROJECT
ES-8860i ALUMINUM
WINDOW WALL SYSTEM
LARGE MISILE IMPACT

FL #44674.1

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ENGINEER:
**DEERFIELD
TECHNICAL INC.**
CA# 36112
111 NORTH ORANGE AVE.
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ORLANDO, FL 32801

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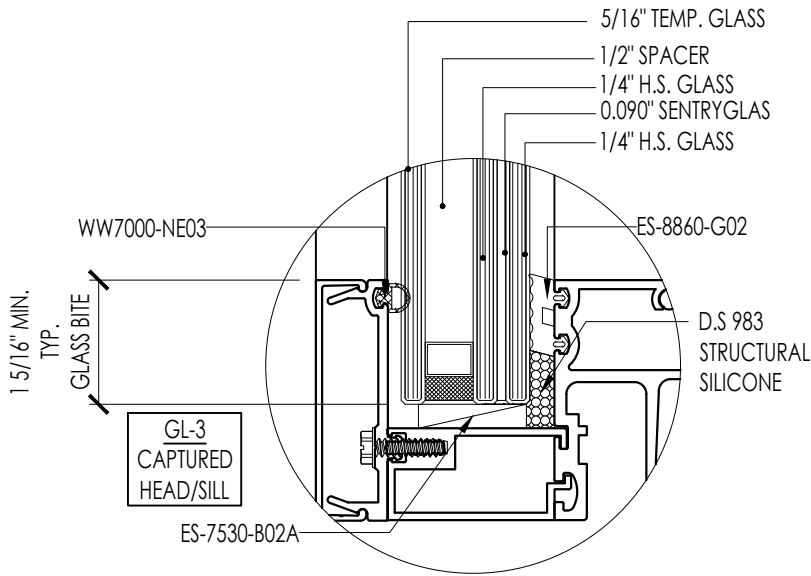
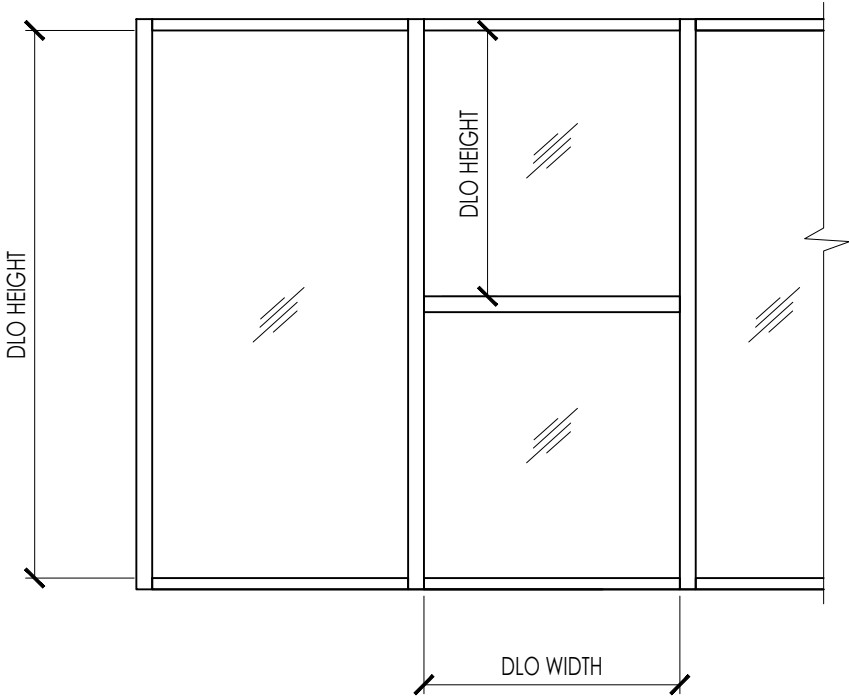


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DWG NUMBER DT-PA-ESW-001	SCALE 6"=1'-0"	
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CAPTURED GLASS			
DESIGN LOAD CAPACITY			
NOMINAL DIMESIONS		GL-3	
DLO WIDTH	DLO HEIGHT	+	-
36	78	110	110
42		110	110
48		110	110
54		110	110
62		110	110
36	86	110	110
42		110	110
48		110	110
54		110	110
62		110	110
36	94	110	110
42		110	110
48		110	110
54		110	110
62		110	110
36	102	110	110
42		110	110
48		110	110
54		110	110
62		110	110
36	110	110	110
42		110	110
48		110	110
54		110	110
62		110	110
36	118	110	110
42		110	110
48		110	110
54		110	110
62		110	110
36	126	110	110
42		110	110
48		110	110
54		110	110
62		110	110

CAPTURED GLASS			
DESIGN LOAD CAPACITY			
NOMINAL DIMESIONS		GL-3	
DLO WIDTH	DLO HEIGHT	+	-
36	134	110	110
42		110	110
48		110	110
54		110	110
62		94	94
36	141 1/2	110	110
42		110	110
48		110	110
54		110	110
62		110	110
36	150	110	110
42		110	110
48		110	110
54		110	110
62		94	94
36	158	110	110
42		110	110
48		110	110
54		110	110
62		94	94
36	166	110	110
42		110	110
48		110	110
54		94	94
62		94	94
36	174	110	110
42		110	110
48		110	110
54		94	94
62		94	94
36	179	110	110
42		110	110
48		110	110
54		94	94
62		94	94

CAPTURED GLASS
GLASS CAPACITY TABLE



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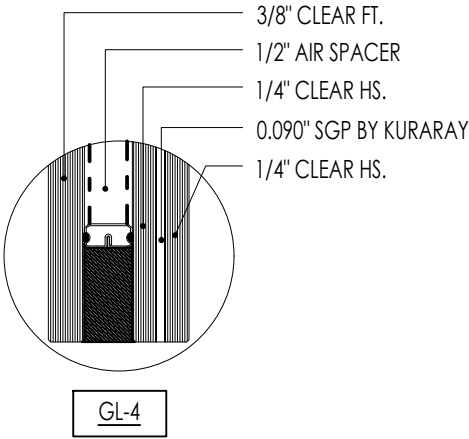
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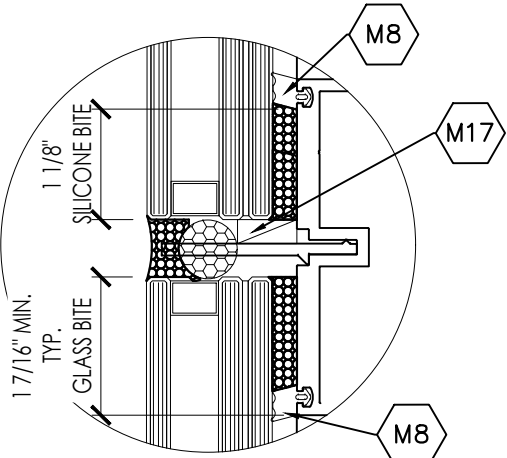
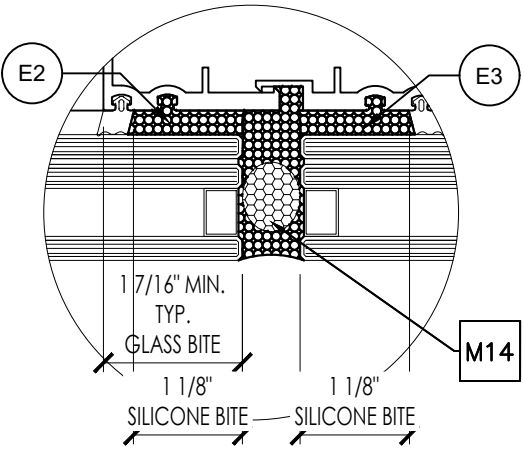
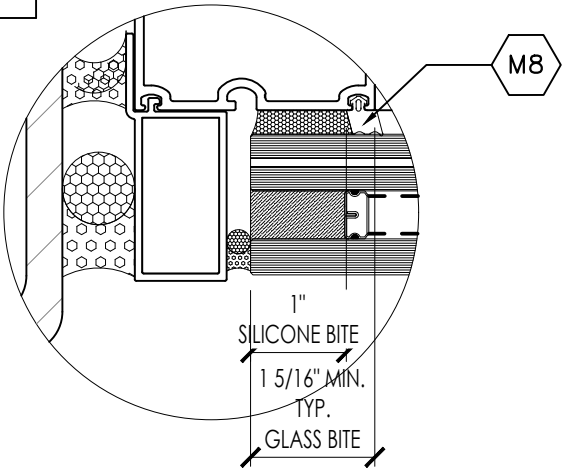
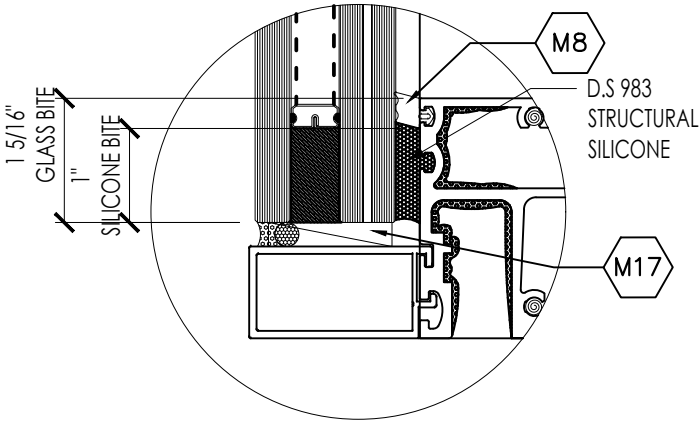
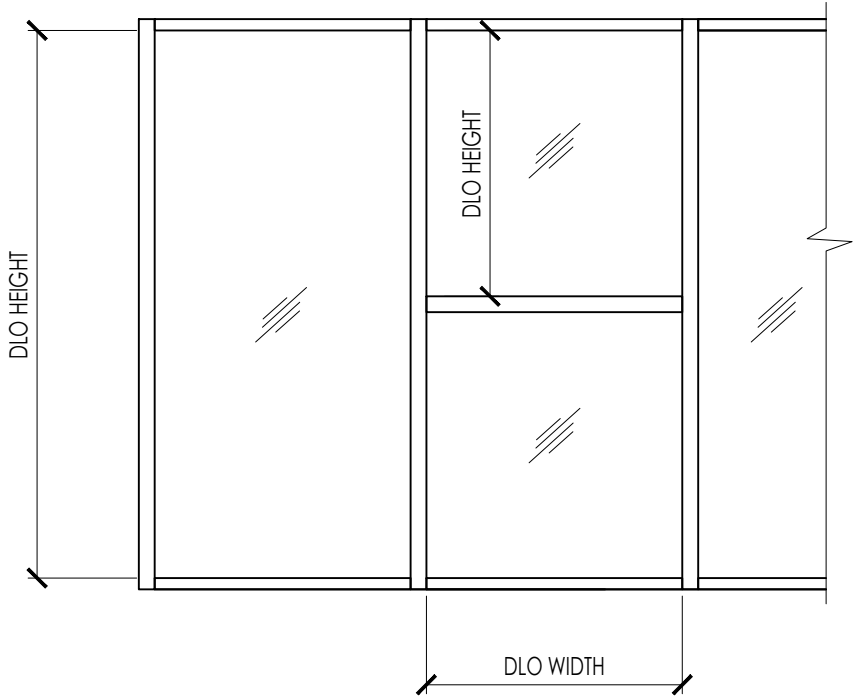
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FL. REG. # 94078

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DWG NUMBER DT-PA-ESW-001	SCALE 6"=1'-0"	
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DESIGN LOAD CAPACITY - PSF EXT.(+) & INT. (-)			
NOMINAL DIMENSIONS		GL-4	
DLO WIDTH	DLO HEIGHT	+	-
36	78	65	65
42		65	65
48		65	65
54		65	65
60		65	65
66		65	65
72		65	65
78		65	65
84	84	65	65
36		65	65
42		65	65
48		65	65
54		65	65
60		65	65
66		65	65
72		65	65
78		65	65
84	90	65	65
36		65	65
42		65	65
48		65	65
54		65	65
60		65	65
66		65	65
72		65	65
78	96	65	65
84		65	65
36		65	65
42		65	65
48		65	65
54		65	65
60		65	65
66		65	65
72		65	65
78		65	65
84		65	65



STRUCTURALLY GLAZED (SSG)
GLASS CAPACITY TABLE



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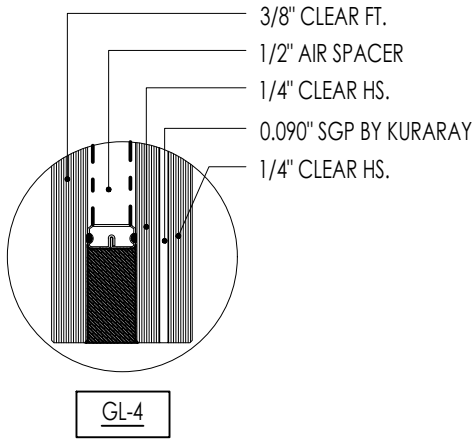
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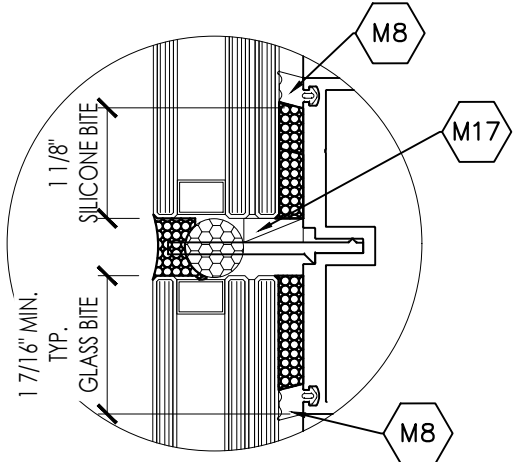
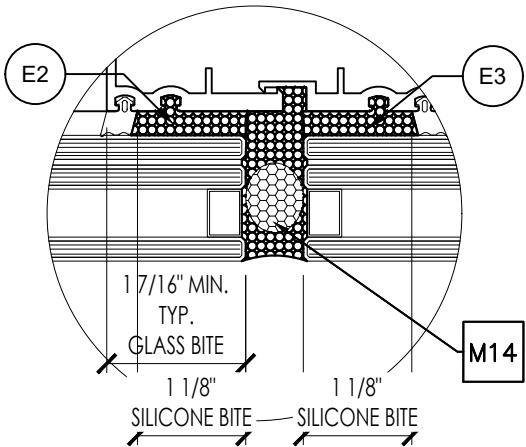
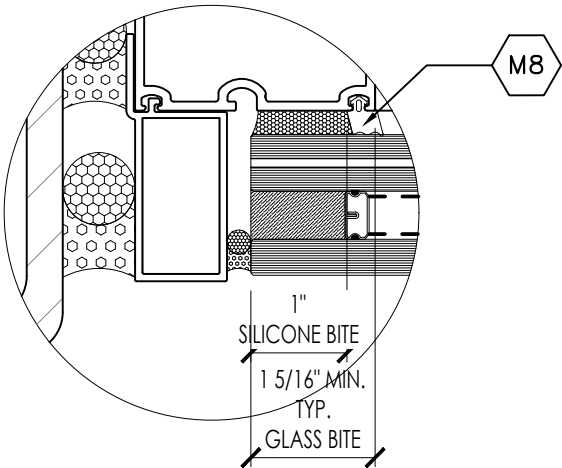
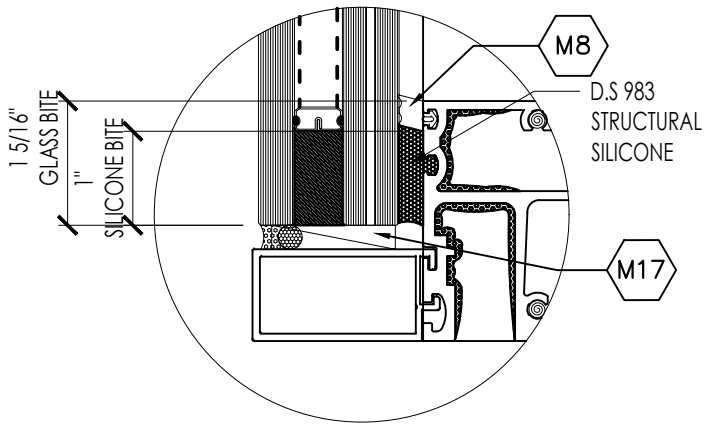
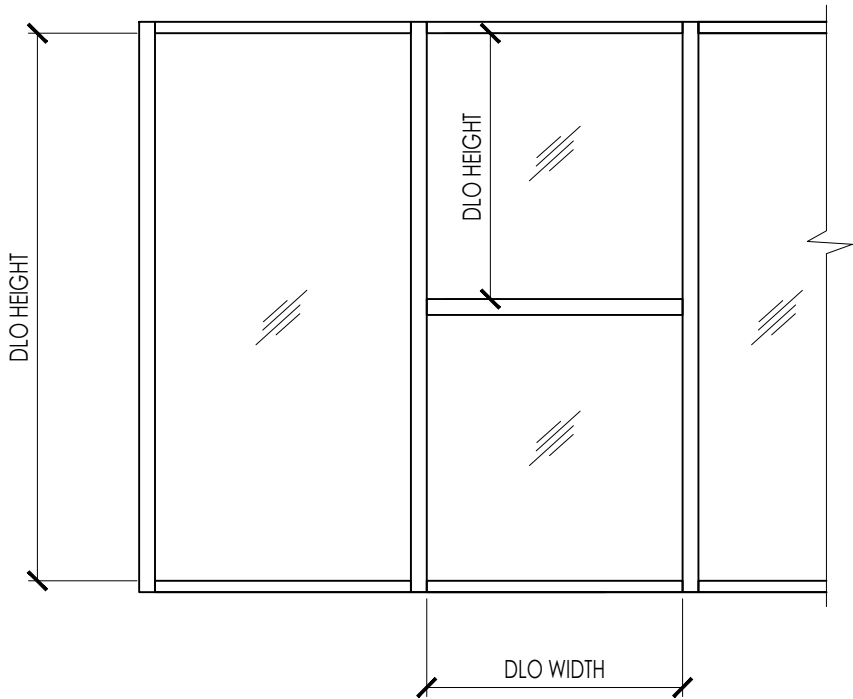
JOHN FREDY DELGADO
LICENSE
No. 94078
09/10/2026
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
JOHN DELGADO, P.E.
FL. REG. # 94078

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DWG NUMBER DT-PA-ESW-001	SCALE 6"=1'-0"	
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DESIGN LOAD CAPACITY - PSF EXT.(+) & INT. (-)			
NOMINAL DIMENSIONS		GL-4	
DLO WIDTH	DLO HEIGHT	+	-
36	102	65	65
42		65	65
48		65	65
54		65	65
60		65	65
66		65	65
72		65	65
76 1/2		65	65
36	108	65	65
42		65	65
48		65	65
54		65	65
60		65	65
66		65	65
72		65	65
76 1/2		65	65
36	110 3/4	65	65
42		65	65
48		65	65
54		65	65
60		65	65
66		65	65
72		65	65
76 1/2		65	65
36	110 1/4	65	65
42		65	65
48		65	65
54		65	65
61 1/2		65	65
66		65	65
72		65	65
61 1/2		65	65



STRUCTURALLY GLAZED (SSG) GLASS CAPACITY TABLE



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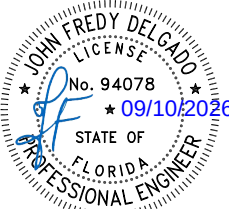
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SLAB COVER
GLASS CAPACITY

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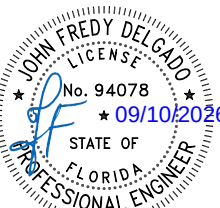
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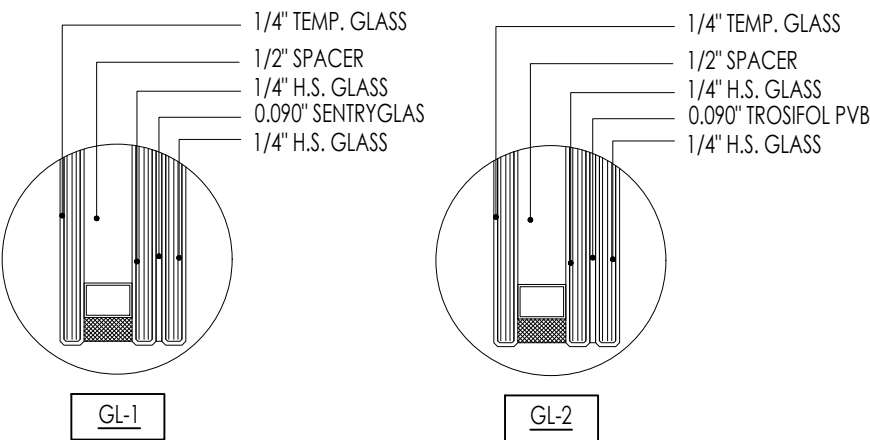
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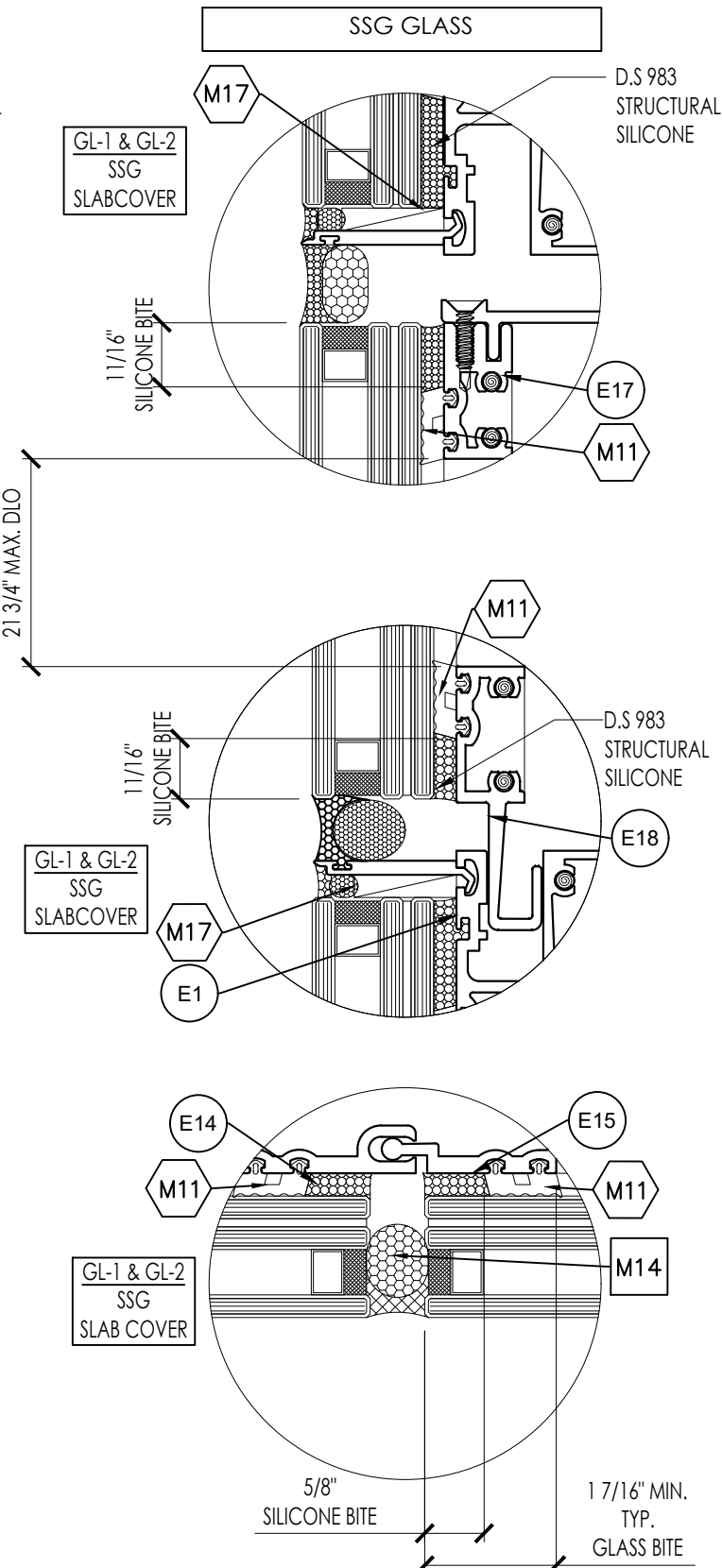
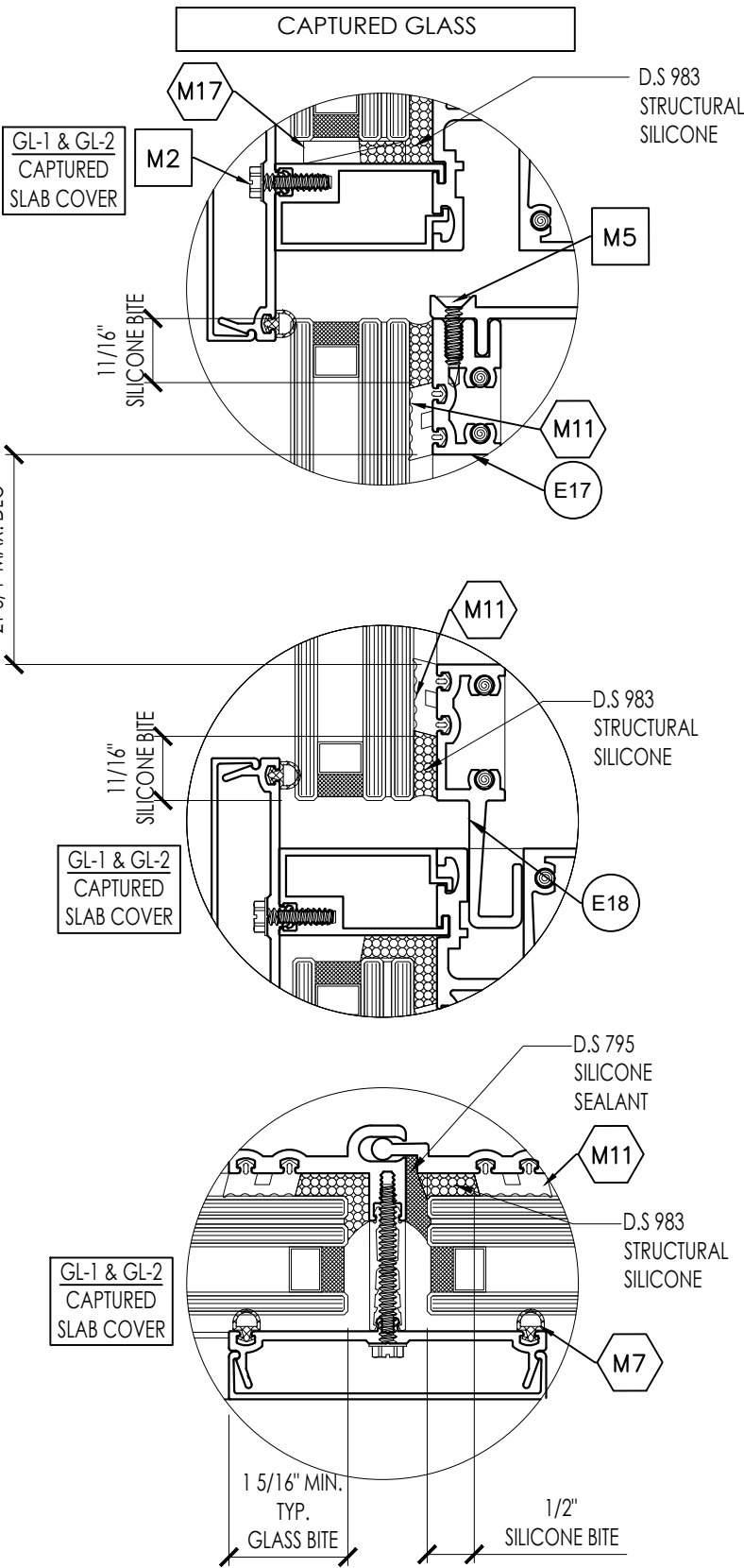
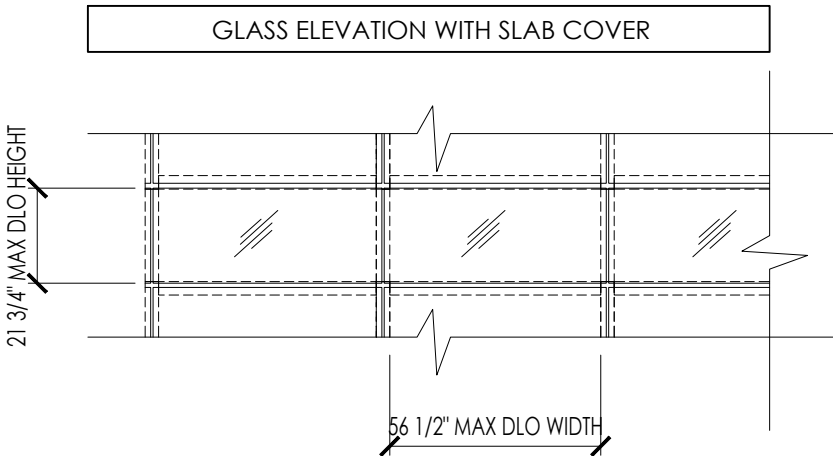


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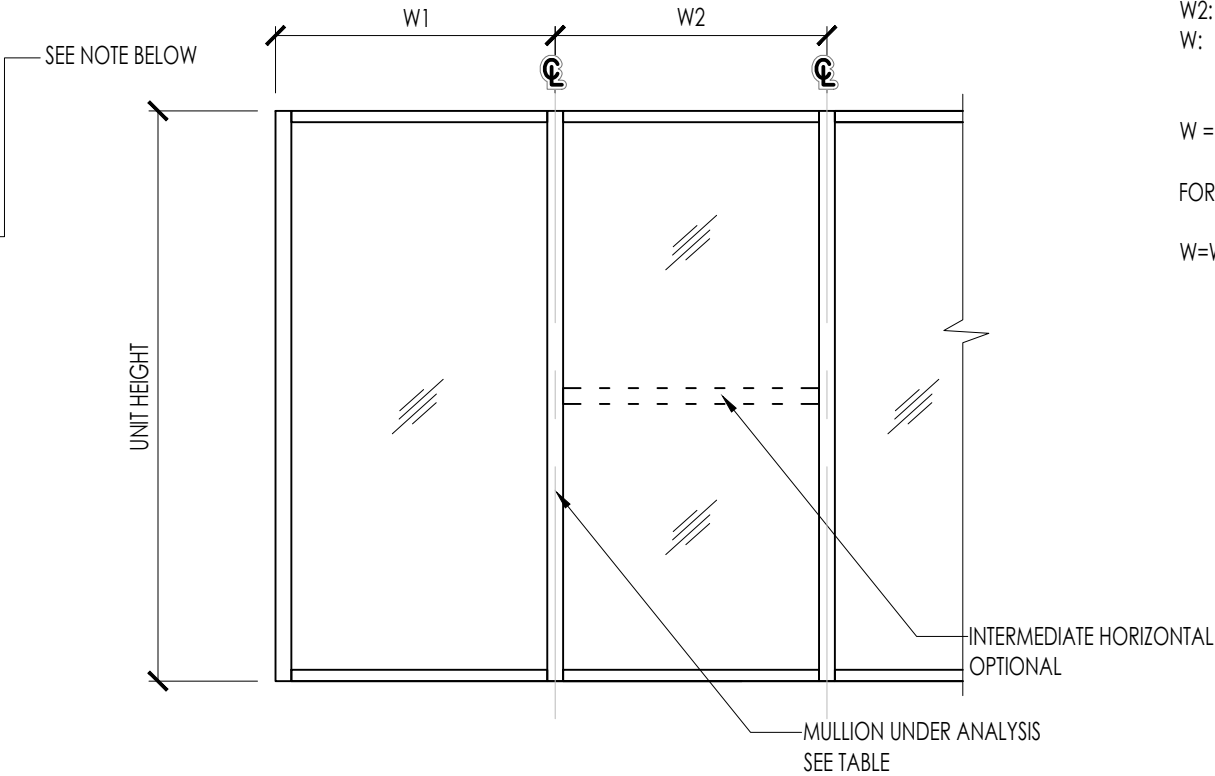
DESIGN LOAD CAPACITY CAPTURED OR SSG					
NOMINAL DIMENSIONS		GL-1		GL-2	
MAX DLO WIDTH	MAX DLO HEIGHT	+	-	+	-
56 1/2"	21 3/4"	150	150	80	80



MULLION DESIGN LOAD CAPACITY - PSF WITH OR WITHOUT INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		JAMB 'J1' MULLION 'M1'	
WIDTH (W)	FRAME HEIGHT	EXT. (+)	INT. (-)
36	108	150	150
42		150	150
48		150	150
54		150	150
60		150	150
36	114	150	150
42		150	150
48		150	150
54		150	150
60		120	120
36	120	150	150
42		150	150
48		150	150
54		150 *	150 *
60		120	120
36	126	55	55
42		55	55
48		55	55
56		55	55
60		55	55
36	132	55	55
42		55	55
48		55	55
56		55	55
60		55	55
36	138	55	55
42		55	55
48		55	55
56		55	55
60		55	55
36	144	55	55
42		55	55
48		55	55
56		55	55
60		55	55
36	150	55	55
42		55	55
48		55	55
56		55	55
60		-	-
36	156	55	55
42		55	55
48		55	55
54		55	55
56		55	55
60		-	-

(*) FOR STRUCTURALLY GLAZED SYSTEM ONLY, LIMIT THE PRESSURE TO + / - 145 PSF, WHERE INDICATED

MULLION CAPACITY TABLE
CAPTURED OR SSG
WITH OR WITHOUT INTERMEDIATE HORIZONTALS



LEGEND

FOR MULLIONS:

W1: WIDTH OF UNIT LEFT TO THE ANALYZED MULLION
W2: WIDTH OF UNIT RIGHT TO THE ANALYZED MULLION
W: TRIBUTARY WIDTH OF ANALYZED MULLION
TO BE USED IN THE TABLE ON THE LEFT

$W = (W1 + W2) / 2$

FOR JAMBS:

$W = W1$

JAMB 'J1' / MULLION 'M1'			
CAPTURED		SSG	
Ix IN^4	Sx IN^4	Ix IN^4	Sx IN^4
21.88	5.83	20.3192	5.532

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WINDOW WALL SYSTEM
LARGE MISILE IMPACT

FL #44674.1

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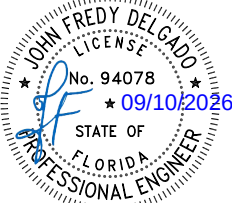
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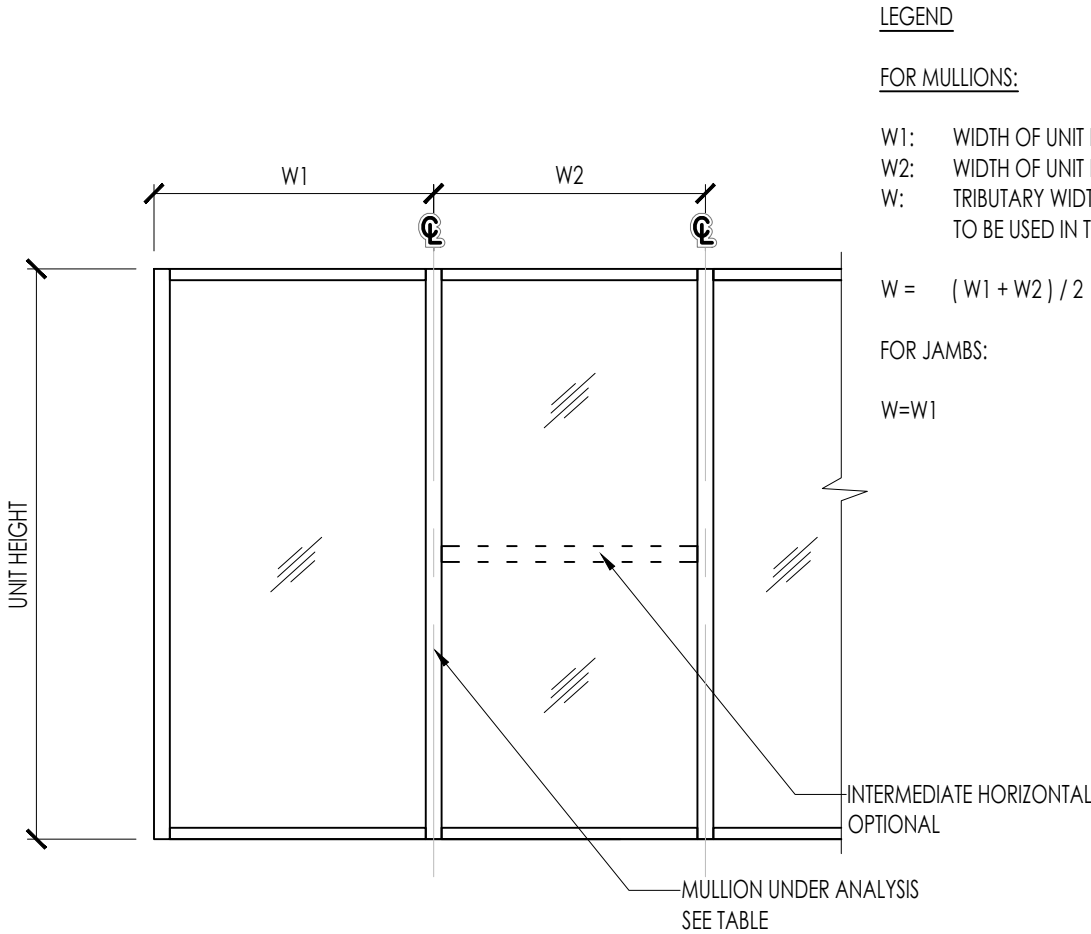
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MULLION CAPACITY TABLE SSG
WITH OR WITHOUT INTERMEDIATE HORIZONTALS

DESIGN LOAD CAPACITY - PSF EXT.(+) & INT. (-)			
NOMINAL DIMENSIONS		JAMB J3	
WIDTH	HEIGHT	+	-
38	150	65	65
44		65	65
50		65	65
56		65	65
62		65	65
68		65	65
74		65	65
81 7/8		65	65
38	154	65	65
44		65	65
50		65	65
56		65	65
62		65	65
68		65	65
74		65	65
81 7/8		65	65
44	160	65	65
50		65	65
56		65	65
62		65	65
68		65	65
74		65	65
81 7/8		65	65
44	166	65	65
50		65	65
56		65	65
62		65	65
68		65	65
74		65	65
81 7/8		65	65
44	172	65	65
50		65	65
56		65	65
62		65	65
68		65	65
74		65	65
81 7/8		65	65
44	178	65	65
50		65	65
56		65	65
62		65	65
68		65	65
74		65	65
81 7/8		65	65

DESIGN LOAD CAPACITY - PSF EXT.(+) & INT. (-)			
NOMINAL DIMENSIONS		JAMB J3	
WIDTH	HEIGHT	+	-
44	184	65	65
50		65	65
56		65	65
62		65	65
68		65	65
74		65	65
81 7/8		65	65
44	190	65	65
50		65	65
56		65	65
62		65	65
68		65	65
74		65	65
81 7/8		65	65
44	196	65	65
50		65	65
56		65	65
62		65	65
68		65	65
74		65	65
81 7/8		65	65
44	202	65	65
50		65	65
56		65	65
62		65	65
68		65	65
74		65	65
81 7/8		65	65
44	206	65	65
50		65	65
56		65	65
62		65	65
68		65	65
74		65	65
81 7/8		65	65



JAMB 'J3'		
	Ix IN^4	Sx IN^3
ALUMINUM	11.7038	3.2520
STEEL	16.1927	5.0801
TOTAL Ix ALUM + Ix STL X 2.9	58.6626	-

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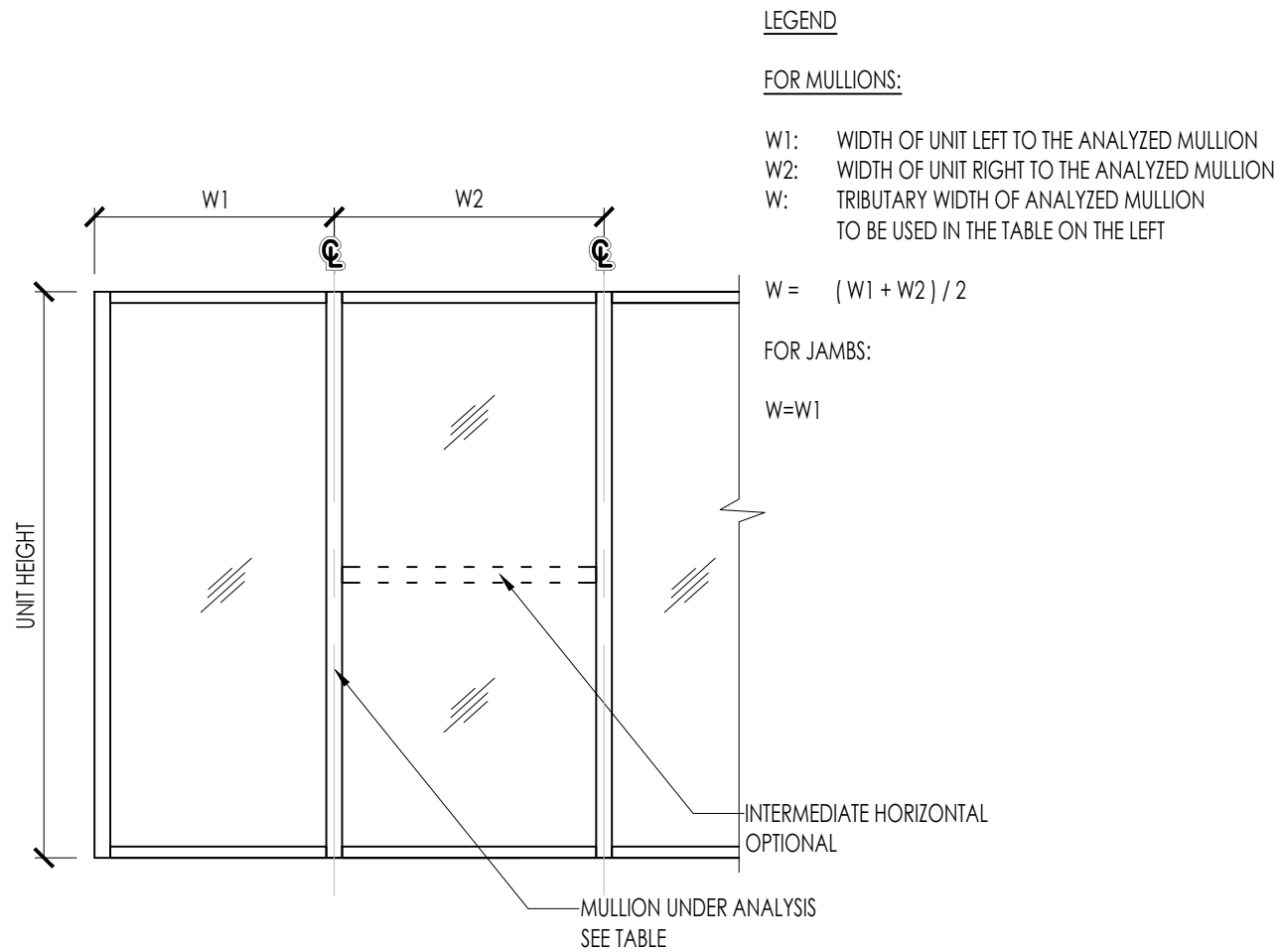
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DESIGN LOAD CAPACITY - PSF EXT.(+) & INT. (-)					
NOMINAL DIMENSIONS		MULLION MA.1		MULLION MA.2	
WIDTH	HEIGHT	+	-	+	-
36	150	65	65	65	65
42		65	65	65	65
48		65	65	65	65
54		65	65	65	65
60		65	65	65	65
66		65	65	65	65
72		65	65	65	65
78		65	65	65	65
80 1/2		-	-	65	65
36	154	65	65	65	65
42		65	65	65	65
48		65	65	65	65
54		65	65	65	65
60		65	65	65	65
66		65	65	65	65
72		65	65	65	65
78		65	65	65	65
80 1/2		65	65	65	65
36	160	65	65	65	65
42		65	65	65	65
48		65	65	65	65
54		65	65	65	65
60		65	65	65	65
66		65	65	65	65
72		65	65	65	65
80 1/2		-	-	65	65
36	166	65	65	65	65
42		65	65	65	65
48		65	65	65	65
54		65	65	65	65
60		65	65	65	65
66		65	65	65	65
72		65	65	65	65
80 1/2		-	-	65	65
36	172	65	65	65	65
42		65	65	65	65
48		65	65	65	65
54		65	65	65	65
60		65	65	65	65
66		65	65	65	65
72		-	-	65	65
80 1/2		-	-	65	65
36	178	65	65	65	65
42		65	65	65	65
48		65	65	65	65
54		65	65	65	65
60		65	65	65	65
66		65	65	65	65
72		-	-	65	65
80 1/2		-	-	65	65

DESIGN LOAD CAPACITY - PSF EXT.(+) & INT. (-)					
NOMINAL DIMENSIONS		MULLION MA.1		MULLION MA.2	
WIDTH	HEIGHT	+	-	+	-
36	184	65	65	65	65
42		65	65	65	65
48		65	65	65	65
54		65	65	65	65
60		65	65	65	65
66		-	-	65	65
72		-	-	65	65
80 1/2		-	-	65	65
36	190	65	65	65	65
42		65	65	65	65
48		65	65	65	65
54		65	65	65	65
60		65	65	65	65
65 1/2		65	65	65	65
72		-	-	65	65
80 1/2		-	-	65	65
36	196	-	-	65	65
42		-	-	65	65
48		-	-	65	65
54		-	-	65	65
60		-	-	65	65
65 1/2		-	-	65	65
72		-	-	65	65
80 1/2		-	-	65	65
36	202	-	-	65	65
42		-	-	65	65
48		-	-	65	65
54		-	-	65	65
60		-	-	65	65
65 1/2		-	-	65	65
72		-	-	65	65
80 1/2		-	-	65	65
36	206	-	-	65	65
42		-	-	65	65
48		-	-	65	65
54		-	-	65	65
60		-	-	65	65
65 1/2		-	-	65	65
72		-	-	65	65
80 1/2		-	-	65	65

MULLION CAPACITY TABLE SSG
WITH OR WITHOUT INTERMEDIATE HORIZONTALS



	MULLION 'MA.1'		MULLION 'MA.2'	
	1x IN^4	Sx IN^3	1x IN^4	Sx IN^3
ALUMINUM	20.3192	5.532	20.3192	5.532
STEEL	11.4427	3.5208	22.8854	7.0416
TOTAL 1x ALUM + 1x STL X 2.9	53.503	-	86.6869	-

E.S.
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3550 N.W. 49 STREET
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PROJECT
ES-8860i ALUMINUM
WINDOW WALL SYSTEM
LARGE MISILE IMPACT

FL #44674.1

DRAWING REVISION LOG		
No.	Date:	Revision:

ENGINEER:
**DEERFIELD
TECHNICAL INC.**
CA# 36112

111 NORTH ORANGE AVE.
SUITE 800
ORLANDO, FL 32801

CHECKED FOR STRUCTURAL
COMPLIANCE ONLY. BY:

JOHN FREDY DELGADO
LICENSE
No. 94078
★ 09/10/2026
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

JOHN DELGADO, P.E.
FL. REG. # 94078

PREPARED BY AC	DRAFTED BY SV	DATE 12/15/2023
DWG NUMBER DT-PA-ESW-001	SCALE N.T.S.	
PAGE 17 OF 47		

MULLION DESIGN LOAD CAPACITY - PSF					
NOMINAL DIMS.		JAMB 'JAB.1'		MULLION 'MA.2'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
36	78	110	110	110	110
42		110	110	110	110
48		110	110	110	110
54		110	110	110	110
66 13/16		110	110	110	110
72 3/4		110	110	-	-
36	86	110	110	110	110
42		110	110	110	110
48		110	110	110	110
54		110	110	110	110
66 13/16		110	110	110	110
72 3/4		110	110	-	-
36	94	110	110	110	110
42		110	110	110	110
48		110	110	110	110
54		110	110	110	110
66 13/16		110	110	110	110
72 3/4		110	110	-	-
36	102	110	110	110	110
42		110	110	110	110
48		110	110	110	110
54		110	110	110	110
66 13/16		110	110	110	110
72 3/4		110	110	-	-
36	110	110	110	110	110
42		110	110	110	110
48		110	110	110	110
54		110	110	110	110
66 13/16		110	110	110	110
72 3/4		110	110	-	-
36	118	110	110	110	110
42		110	110	110	110
48		110	110	110	110
54		110	110	110	110
66 13/16		110	110	110	110
72 3/4		110	110	-	-
36	126	110	110	110	110
42		110	110	110	110
48		110	110	110	110
54		110	110	110	110
66 13/16		110	110	110	110
72 3/4		110	110	-	-

MULLION DESIGN LOAD CAPACITY - PSF					
NOMINAL DIMS.		JAMB 'JAB.1'		MULLION 'MA.2'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
36	134	110	110	110	110
42		110	110	110	110
48		110	110	110	110
54		110	110	110	110
66 13/16		110	110	110	110
72 3/4		110	110	-	-
36	142	110	110	110	110
42		110	110	110	110
48		110	110	110	110
54		110	110	110	110
66 13/16		110	110	110	110
72 3/4		110	110	-	-
36	150	110	110	110	110
42		110	110	110	110
48		110	110	110	110
54		110	110	110	110
66 13/16		110	110	110	110
72 3/4		110	110	-	-
36	158	110	110	110	110
42		110	110	110	110
48		110	110	110	110
54		110	110	110	110
66 13/16		110	110	110	110
72 3/4		110	110	-	-
36	166	110	110	110	110
42		110	110	110	110
48		110	110	110	110
54		110	110	110	110
66 13/16		110	110	110	110
72 3/4		110	110	-	-
36	174	110	110	110	110
42		110	110	110	110
48		110	110	110	110
54		110	110	110	110
66 13/16		110	110	110	110
72 3/4		110	110	-	-
36	184	110	110	110	110
42		110	110	110	110
48		110	110	110	110
54		110	110	110	110
66 13/16		110	110	110	110
72 3/4		110	110	-	-

JAMB & MULLION CAPACITY TABLE
CAPTURED WITH OR WITHOUT
INTERMEDIATE HORIZONTALS

LEGEND

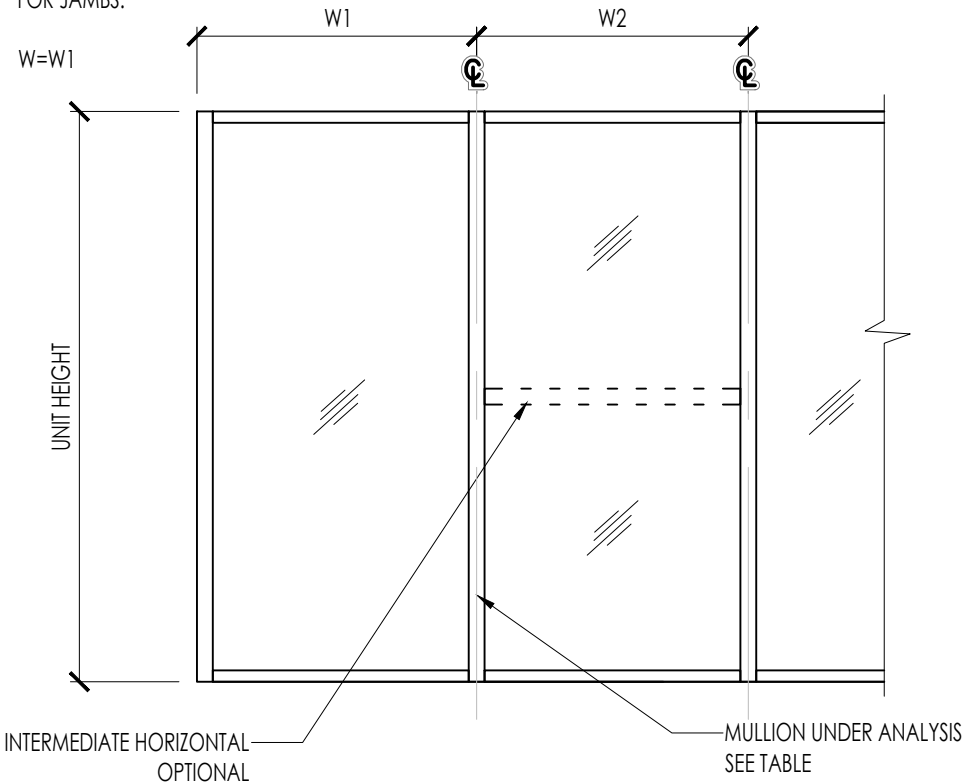
FOR MULLIONS:

W1: WIDTH OF UNIT LEFT TO THE ANALYZED MULLION
W2: WIDTH OF UNIT RIGHT TO THE ANALYZED MULLION
W: TRIBUTARY WIDTH OF ANALYZED MULLION
TO BE USED IN THE TABLE ON THE LEFT

W = (W1 + W2) / 2

FOR JAMBS:

W=W1



	JAMB 'JAB.1'		MULLION 'MA.2'	
	CAPTURED	CAPTURED	CAPTURED	CAPTURED
	1x IN^4	Sx IN^3	1x IN^4	Sx IN^3
ALUMINUM	21.88	5.83	21.88	5.83
STEEL	11.4427	3.5208	22.8854	7.0417
TOTAL 1x ALUM + 1x STL X 2.9	55.0638	-	88.2476	-

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PROJECT
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WINDOW WALL SYSTEM
LARGE MISILE IMPACT

FL #44674.1

DRAWING REVISION LOG		
No.	Date:	Revision:

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TECHNICAL INC.**
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PREPARED BY AC	DRAFTED BY SV	DATE 12/15/2023
DWG NUMBER DT-PA-ESW-001	SCALE N.T.S.	
PAGE 18 OF 47		

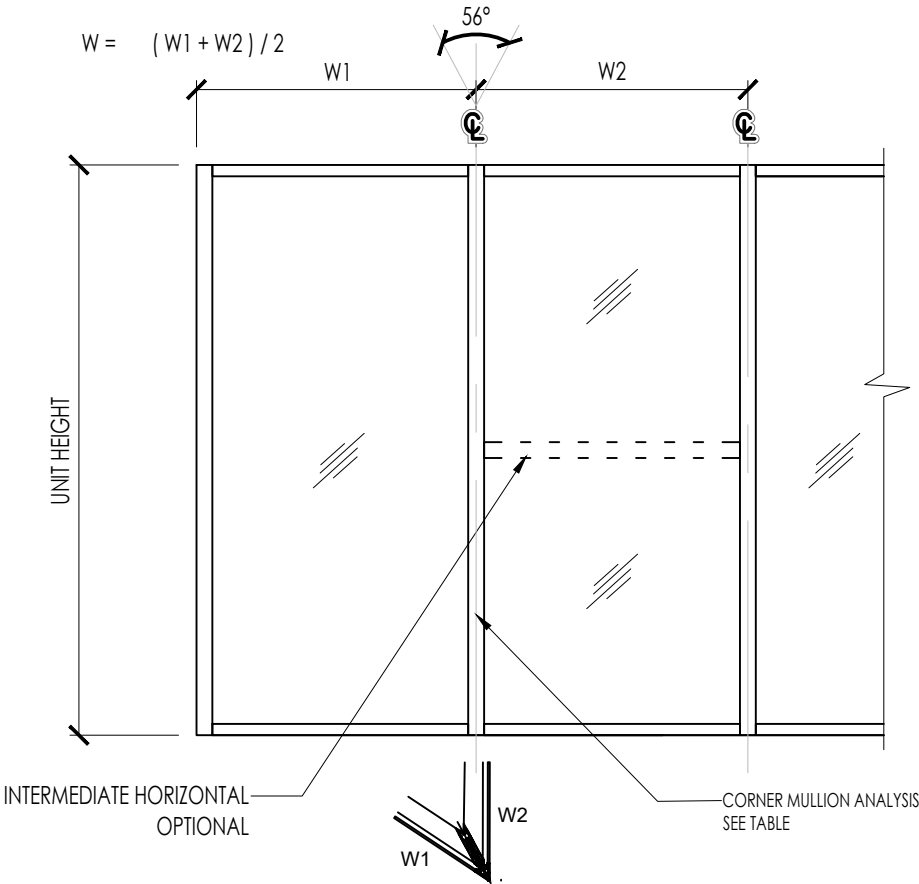
MULLION DESIGN LOAD CAPACITY - PSF			
WITH OR WITHOUT INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		CORNER MULLION 'CM1'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)
36	78	110	110
42		110	110
48		110	110
54		110	110
66 13/16		110	110
72 3/4		110	110
36	86	110	110
42		110	110
48		110	110
54		110	110
66 13/16		110	110
72 3/4		110	110
36	94	110	110
42		110	110
48		110	110
54		110	110
66 13/16		110	110
72 3/4		110	110
36	102	110	110
42		110	110
48		110	110
54		110	110
66 13/16		110	110
72 3/4		110	110
36	110	110	110
42		110	110
48		110	110
54		110	110
66 13/16		110	110
72 3/4		110	110
36	118	110	110
42		110	110
48		110	110
54		110	110
66 13/16		110	110
72 3/4		110	110
36	126	110	110
42		110	110
48		110	110
54		110	110
66 13/16		110	110
72 3/4		110	110

MULLION DESIGN LOAD CAPACITY - PSF			
WITH OR WITHOUT INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		CORNER MULLION 'CM1'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)
36	134	110	110
42		110	110
48		110	110
54		110	110
66 13/16		110	110
72 3/4		110	110
36	142	110	110
42		110	110
48		110	110
54		110	110
66 13/16		110	110
72 3/4		110	110
36	150	110	110
42		110	110
48		110	110
54		110	110
66 13/16		110	110
72 3/4		110	110
36	158	110	110
42		110	110
48		110	110
54		110	110
66 13/16		110	110
72 3/4		110	110
36	166	110	110
42		110	110
48		110	110
54		110	110
66 13/16		110	110
72 3/4		110	110
36	174	110	110
42		110	110
48		110	110
54		110	110
66 13/16		110	110
72 3/4		110	110
36	184	110	110
42		110	110
48		110	110
54		110	110
66 13/16		110	110
72 3/4		110	110

CORNER MULLION CAPACITY TABLE
CAPTURED WITH OR WITHOUT
INTERMEDIATE HORIZONTALS

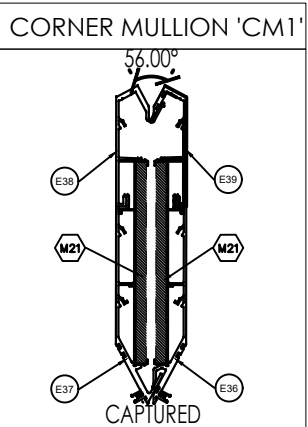
LEGEND

W1: WIDTH OF UNIT LEFT TO THE ANALYZED MULLION
W2: WIDTH OF UNIT RIGHT TO THE ANALYZED MULLION
W: TRIBUTARY WIDTH OF ANALYZED MULLION
TO BE USED IN THE TABLE ON THE LEFT



INTERMEDIATE HORIZONTAL
OPTIONAL

CORNER MULLION ANALYSIS
SEE TABLE



CAPTURED

	Ix IN^4	Sx IN^3
ALUMINUM	319.29	33.32
STEEL	83.334	16.66
TOTAL Ix ALUM + Ix STL X 2.9	560.96	-

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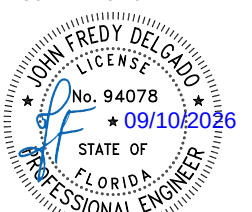
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PROJECT
ES-8860i ALUMINUM
WINDOW WALL SYSTEM
LARGE MISILE IMPACT

FL #44674.1

DRAWING REVISION LOG		
No.	Date:	Revision:

ENGINEER:
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TECHNICAL INC.**
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PREPARED BY AC	DRAFTED BY SV	DATE 12/15/2023
DWG NUMBER DT-PA-ESW-001	SCALE N.T.S.	
PAGE 19 OF 47		

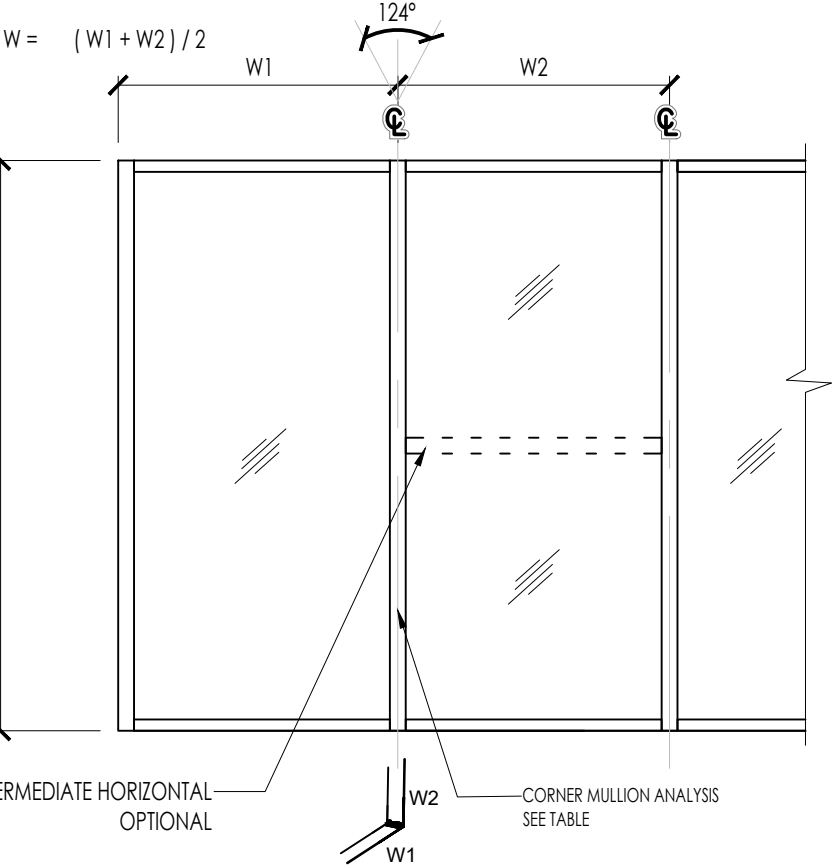
MULLION DESIGN LOAD CAPACITY - PSF			
WITH OR WITHOUT INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		CORNER MULLION 'CM2'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)
36	78	110	110
42		110	110
48		110	110
54		110	110
60		110	110
67 1/2		110	110
36	86	110	110
42		110	110
48		110	110
54		110	110
60		110	110
67 1/2		110	110
36	94	110	110
42		110	110
48		110	110
54		110	110
60		110	110
67 1/2		110	110
36	102	110	110
42		110	110
48		110	110
54		110	110
60		110	110
67 1/2		110	110
36	110	110	110
42		110	110
48		110	110
54		110	110
60		110	110
67 1/2		110	110
36	118	110	110
42		110	110
48		110	110
54		110	110
60		110	110
67 1/2		110	110
36	126	110	110
42		110	110
48		110	110
54		110	110
60		110	110
67 1/2		110	110

MULLION DESIGN LOAD CAPACITY - PSF			
WITH OR WITHOUT INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		CORNER MULLION 'CM2'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)
36	134	110	110
42		110	110
48		110	110
54		110	110
60		110	110
67 1/2		110	110
36	142	110	110
42		110	110
48		110	110
54		110	110
60		110	110
67 1/2		110	110
36	150	110	110
42		110	110
48		110	110
54		110	110
60		110	110
67 1/2		110	110
36	158	110	110
42		110	110
48		110	110
54		110	110
60		110	110
67 1/2		110	110
36	166	110	110
42		110	110
48		110	110
54		110	110
60		110	110
67 1/2		110	110
36	174	110	110
42		110	110
48		110	110
54		110	110
60		110	110
67 1/2		110	110
36	184	110	110
42		110	110
48		110	110
54		110	110
60		110	110
67 1/2		110	110

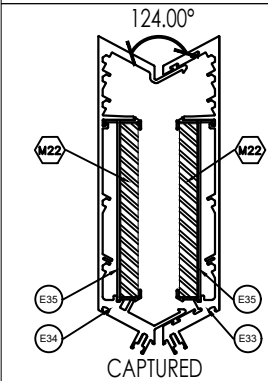
CORNER MULLION CAPACITY TABLE
CAPTURED WITH OR WITHOUT
INTERMEDIATE HORIZONTALS

LEGEND

W1: WIDTH OF UNIT LEFT TO THE ANALYZED MULLION
W2: WIDTH OF UNIT RIGHT TO THE ANALYZED MULLION
W: TRIBUTARY WIDTH OF ANALYZED MULLION
TO BE USED IN THE TABLE ON THE LEFT



CORNER MULLION 'CM2'



	Ix IN^4	Sx IN^3
ALUMINUM	50.09	10.85
STEEL	10.42	4.17
TOTAL Ix ALUM + Ix STL X 2.9	80.29	-

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PROJECT
ES-8860i ALUMINUM
WINDOW WALL SYSTEM
LARGE MISILE IMPACT

FL #44674.1

DRAWING REVISION LOG		
No.	Date:	Revision:

ENGINEER:
**DEERFIELD
TECHNICAL INC.**
CA# 36112
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JOHN DELGADO, P.E.
FL. REG. # 94078

PREPARED BY AC	DRAFTED BY SV	DATE 12/15/2023
DWG NUMBER DT-PA-ESW-001	SCALE N.T.S.	
PAGE 20 OF 47		

MULLION DESIGN LOAD CAPACITY - PSF			
WITH OR WITHOUT INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		CORNER MULLION 'CM3'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)
36	78	110	110
42		110	110
48		110	110
54		110	110
60		110	110
69		110	110
36	86	110	110
42		110	110
48		110	110
54		110	110
60		110	110
69		110	110
36	94	110	110
42		110	110
48		110	110
54		110	110
60		110	110
69		110	110
36	102	110	110
42		110	110
48		110	110
54		110	110
60		110	110
69		110	110
36	110	110	110
42		110	110
48		110	110
54		110	110
60		110	110
69		110	110
36	118	110	110
42		110	110
48		110	110
54		110	110
60		110	110
69		110	110
36	126	110	110
42		110	110
48		110	110
54		110	110
60		110	110
69		110	110

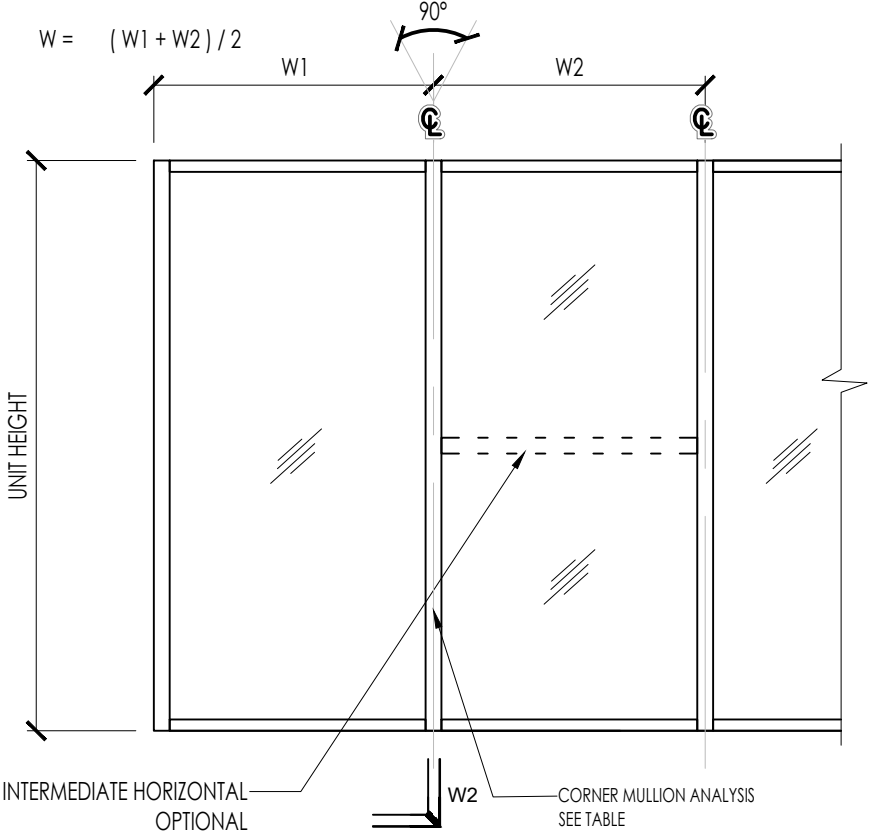
MULLION DESIGN LOAD CAPACITY - PSF			
WITH OR WITHOUT INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		CORNER MULLION 'CM3'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)
36	134	110	110
42		110	110
48		110	110
54		110	110
60		110	110
69		110	110
36	142	110	110
42		110	110
48		110	110
54		110	110
60		110	110
69		110	110
36	150	110	110
42		110	110
48		110	110
54		110	110
60		110	110
69		110	110
36	158	110	110
42		110	110
48		110	110
54		110	110
60		110	110
69		110	110
36	166	110	110
42		110	110
48		110	110
54		110	110
60		110	110
69		110	110
36	174	110	110
42		110	110
48		110	110
54		110	110
60		110	110
69		110	110
36	184	110	110
42		110	110
48		110	110
54		110	110
60		110	110
69		110	110

CORNER MULLION CAPACITY TABLE
CAPTURED WITH OR WITHOUT
INTERMEDIATE HORIZONTALS

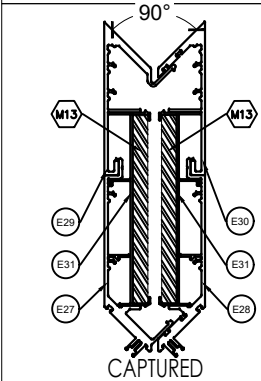
LEGEND

W1: WIDTH OF UNIT LEFT TO THE ANALYZED MULLION
W2: WIDTH OF UNIT RIGHT TO THE ANALYZED MULLION
W: TRIBUTARY WIDTH OF ANALYZED MULLION
TO BE USED IN THE TABLE ON THE LEFT

$W = (W1 + W2) / 2$



CORNER MULLION 'CM3'



	Ix IN^4	Sx IN^3
ALUMINUM	95.69	16.17
STEEL	22.89	7.04
TOTAL Ix ALUM + Ix STL X 2.9	162.05	-

E.S.
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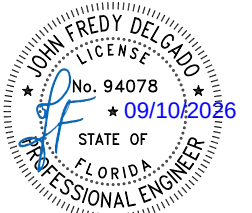
FL #44674.1

DRAWING REVISION LOG

No.	Date:	Revision:

ENGINEER:
**DEERFIELD
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CA# 36112
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FL. REG. # 94078

PREPARED BY AC	DRAFTED BY SV	DATE 12/15/2023
DWG NUMBER DT-PA-ESW-001	SCALE N.T.S.	
PAGE 21 OF 47		

DESIGN LOAD CAPACITY - PSF EXT.(+) & INT. (-)					
NOMINAL DIMENSIONS		MULLION MG.1		MULLION MG.2	
WIDTH	HEIGHT	+	-	+	-
36	150	65	65	65	65
42		65	65	65	65
48		65	65	65	65
54		65	65	65	65
60		65	65	65	65
66		65	65	65	65
72		65	65	65	65
78		65	65	65	65
36	154	65	65	65	65
42		65	65	65	65
48		65	65	65	65
54		65	65	65	65
60		65	65	65	65
66		65	65	65	65
72		65	65	65	65
78		65	65	65	65
36	160	65	65	65	65
42		65	65	65	65
48		65	65	65	65
54		65	65	65	65
60		65	65	65	65
66		65	65	65	65
72		65	65	65	65
78		65	65	65	65
36	166	65	65	65	65
42		65	65	65	65
48		65	65	65	65
54		65	65	65	65
60		65	65	65	65
66		65	65	65	65
72		65	65	65	65
78		65	65	65	65
36	172	65	65	65	65
42		65	65	65	65
48		65	65	65	65
54		65	65	65	65
60		65	65	65	65
66		65	65	65	65
72		65	65	65	65
78		65	65	65	65
36	178	65	65	65	65
42		65	65	65	65
48		65	65	65	65
54		65	65	65	65
60		65	65	65	65
66		65	65	65	65
72		65	65	65	65
78		65	65	65	65
36	184	65	65	65	65
42		65	65	65	65
48		65	65	65	65
54		65	65	65	65
60		65	65	65	65
66		65	65	65	65
72		65	65	65	65
78		65	65	65	65

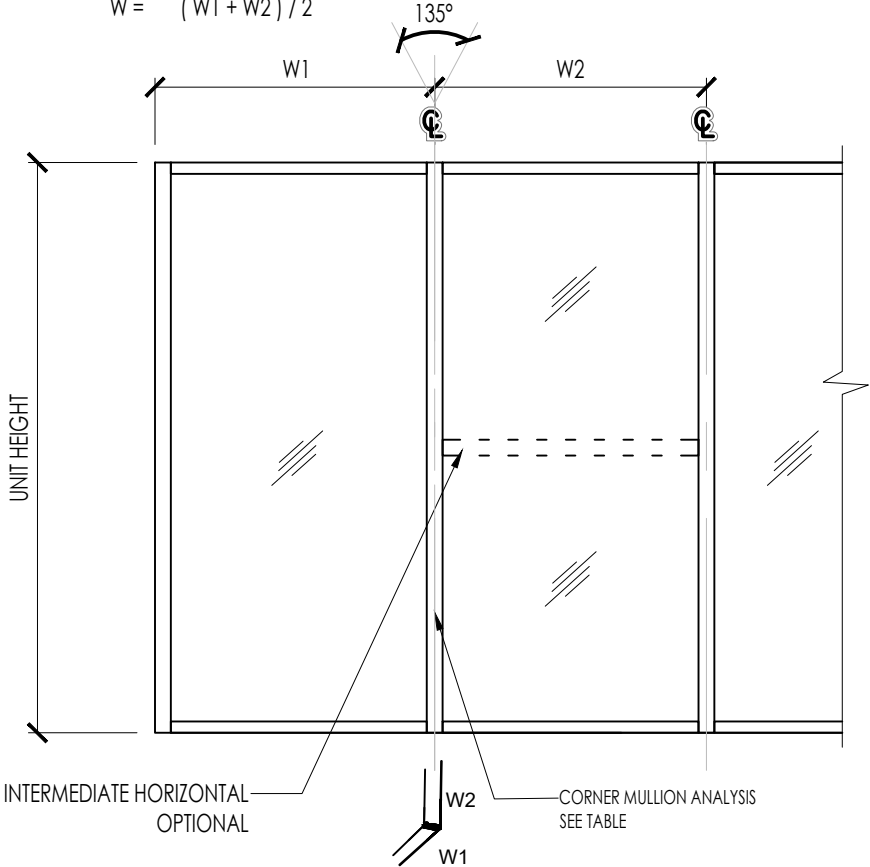
DESIGN LOAD CAPACITY - PSF EXT.(+) & INT. (-)					
NOMINAL DIMENSIONS		MULLION MG.1		MULLION MG.2	
WIDTH	HEIGHT	+	-	+	-
36	190	65	65	65	65
42		65	65	65	65
48		65	65	65	65
54		65	65	65	65
60		65	65	65	65
65 1/2		65	65	65	65
36	196	-	-	65	65
42		-	-	65	65
48		-	-	65	65
54		-	-	65	65
60		-	-	65	65
65 1/16		-	-	65	65
36	202	-	-	65	65
42		-	-	65	65
48		-	-	65	65
54		-	-	65	65
60		-	-	65	65
65 1/16		-	-	65	65
36	206	-	-	65	65
42		-	-	65	65
48		-	-	65	65
54		-	-	65	65
60		-	-	65	65
65 1/16		-	-	65	65

CORNER MULLION CAPACITY TABLE
SSG WITH OR WITHOUT INTERMEDIATE
HORIZONTALS

LEGEND

W1: WIDTH OF UNIT LEFT TO THE ANALYZED MULLION
W2: WIDTH OF UNIT RIGHT TO THE ANALYZED MULLION
W: TRIBUTARY WIDTH OF ANALYZED MULLION
TO BE USED IN THE TABLE ON THE LEFT

W = (W1 + W2) / 2



	MULLION 'MG.1'		MULLION 'MG.2'	
	Ix IN^4	Sx IN^3	Ix IN^4	Sx IN^3
ALUMINUM	39.7982	8.9414	39.7982	8.9414
STEEL	12.8145	3.7969	25.6290	7.5938
TOTAL Ix ALUM + Ix STL X 2.9	76.9603	-	114.1223	-

E.S.
WINDOWS, LLC

3550 N.W. 49 STREET
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PROJECT
ES-8860i ALUMINUM
WINDOW WALL SYSTEM
LARGE MISILE IMPACT

FL #44674.1

DRAWING REVISION LOG		
No.	Date:	Revision:

ENGINEER:
**DEERFIELD
TECHNICAL INC.**
CA# 36112
111 NORTH ORANGE AVE.
SUITE 800
ORLANDO, FL 32801

CHECKED FOR STRUCTURAL
COMPLIANCE ONLY. BY:

JOHN DELGADO, P.E.
FL. REG. # 94078

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DWG NUMBER DT-PA-ESW-001	SCALE N.T.S.	
PAGE 22 OF 47		

DESIGN LOAD CAPACITY - PSF EXT.(+) & INT. (-)					
NOMINAL DIMENSIONS		MULLION DCM.2		MULLION DCM.3	
WIDTH	HEIGHT	+	-	+	-
36	150	65	65	65	65
42		65	65	65	65
48		65	65	65	65
54		65	65	65	65
60		65	65	65	65
66		65	65	65	65
72		65	65	65	65
78		65	65	65	65
81 3/8		-	-	65	65
36	154	65	65	65	65
42		65	65	65	65
48		65	65	65	65
54		65	65	65	65
60		65	65	65	65
66		65	65	65	65
72		65	65	65	65
78		65	65	65	65
81 3/8		-	-	65	65
36	160	65	65	65	65
42		65	65	65	65
48		65	65	65	65
54		65	65	65	65
60		65	65	65	65
66		65	65	65	65
72		65	65	65	65
81 3/8		-	-	65	65
36	166	65	65	65	65
42		65	65	65	65
48		65	65	65	65
54		65	65	65	65
60		65	65	65	65
66 1/2		65	65	65	65
72		65	65	65	65
81 3/8		-	-	65	65
36	172	65	65	65	65
42		65	65	65	65
48		65	65	65	65
54		65	65	65	65
60		65	65	65	65
66 1/2		65	65	65	65
72		-	-	65	65
81 3/8		-	-	65	65
36	178	65	65	65	65
42		65	65	65	65
48		65	65	65	65
54		65	65	65	65
60		65	65	65	65
66 1/2		65	65	65	65
72		-	-	65	65
81 3/8		-	-	65	65

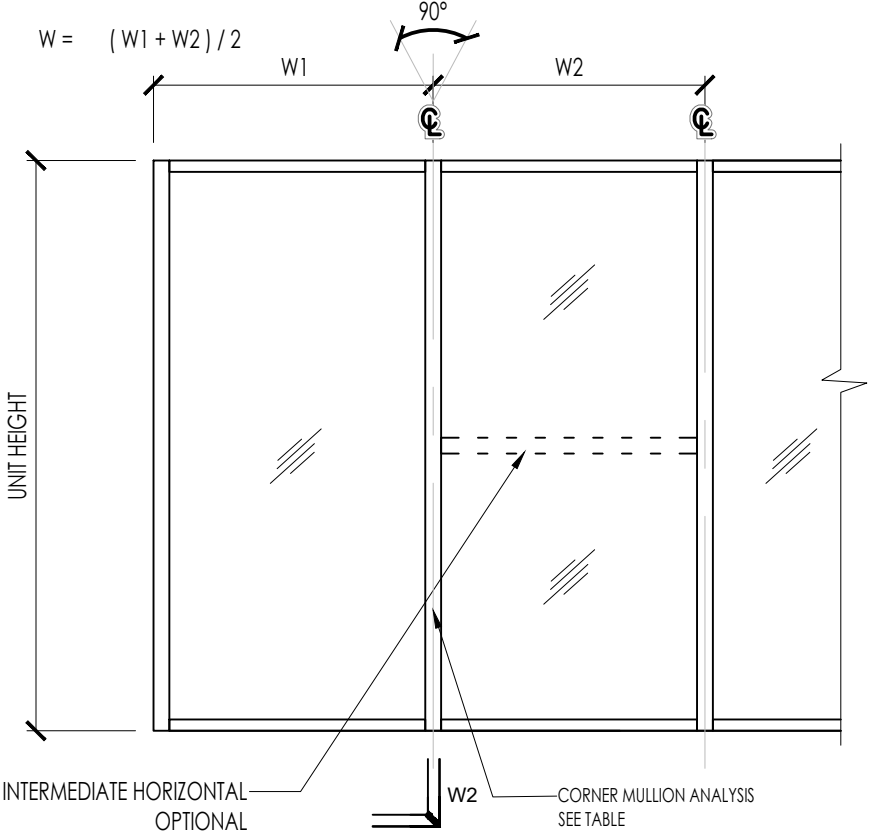
DESIGN LOAD CAPACITY - PSF EXT.(+) & INT. (-)					
NOMINAL DIMENSIONS		MULLION DCM.2		MULLION DCM.3	
WIDTH	HEIGHT	+	-	+	-
36	184	65	65	65	65
42		65	65	65	65
48		65	65	65	65
54		65	65	65	65
60		65	65	65	65
66 1/2		65	65	65	65
72		-	-	65	65
81 3/4		-	-	65	65
36	190	65	65	65	65
42		65	65	65	65
48		65	65	65	65
54		65	65	65	65
60		65	65	65	65
66 1/2		65	65	65	65
72		-	-	65	65
81 3/4		-	-	65	65
36	196	-	-	65	65
42		-	-	65	65
48		-	-	65	65
54		-	-	65	65
60		-	-	65	65
66		-	-	65	65
72		-	-	65	65
81 3/4		-	-	65	65
36	202	-	-	65	65
42		-	-	65	65
48		-	-	65	65
54		-	-	65	65
60		-	-	65	65
66		-	-	65	65
72		-	-	65	65
81 3/4		-	-	65	65
36	206	-	-	65	65
42		-	-	65	65
48		-	-	65	65
54		-	-	65	65
60		-	-	65	65
66		-	-	65	65
72		-	-	65	65
81 3/4		-	-	65	65

CORNER MULLION CAPACITY TABLE
SSG WITH OR WITHOUT INTERMEDIATE
HORIZONTALS

LEGEND

W1: WIDTH OF UNIT LEFT TO THE ANALYZED MULLION
W2: WIDTH OF UNIT RIGHT TO THE ANALYZED MULLION
W: TRIBUTARY WIDTH OF ANALYZED MULLION
TO BE USED IN THE TABLE ON THE LEFT

W = (W1 + W2) / 2



	MULLION 'DCM.2'		MULLION 'DCM.3'	
	Ix IN^4	Sx IN^3	Ix IN^4	Sx IN^3
ALUMINUM	89.3256	15.0804	89.3256	15.0804
STEEL	11.4427	3.5208	22.8854	7.0416
TOTAL Ix ALUM + Ix STL X 2.9	122.5095	-	155.6933	-

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WINDOW WALL SYSTEM
LARGE MISILE IMPACT

FL #44674.1

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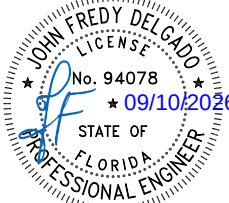
No.	Date:	Revision:

ENGINEER:

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TECHNICAL INC.
CA# 36112

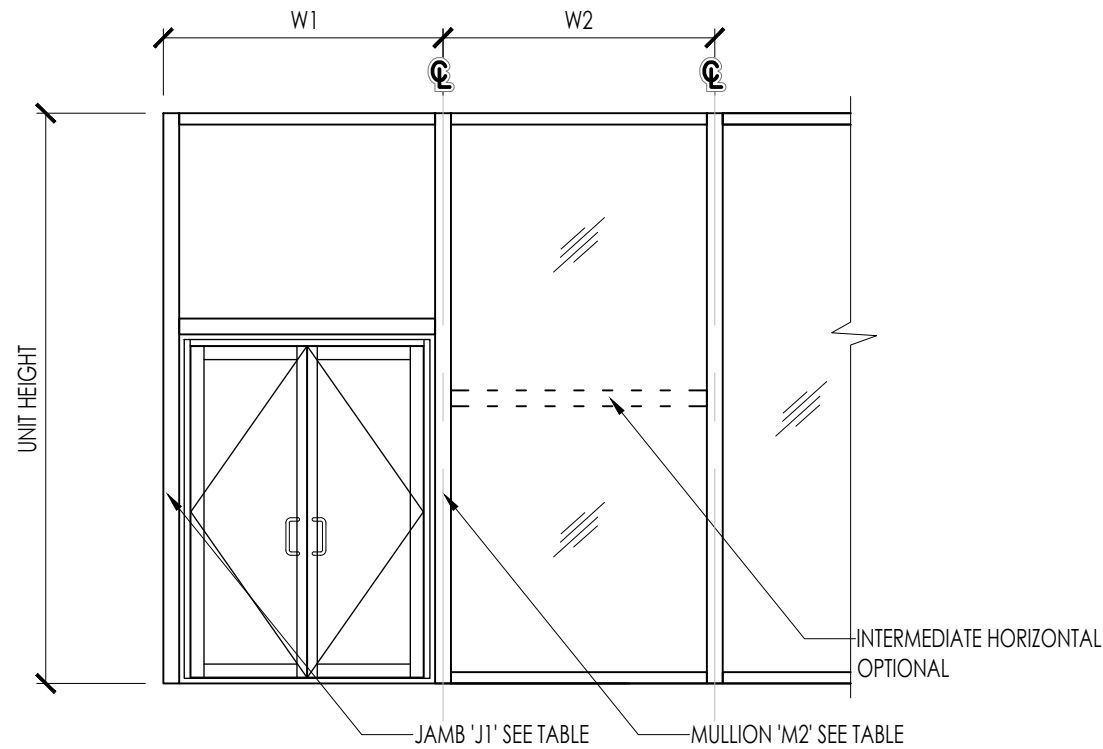
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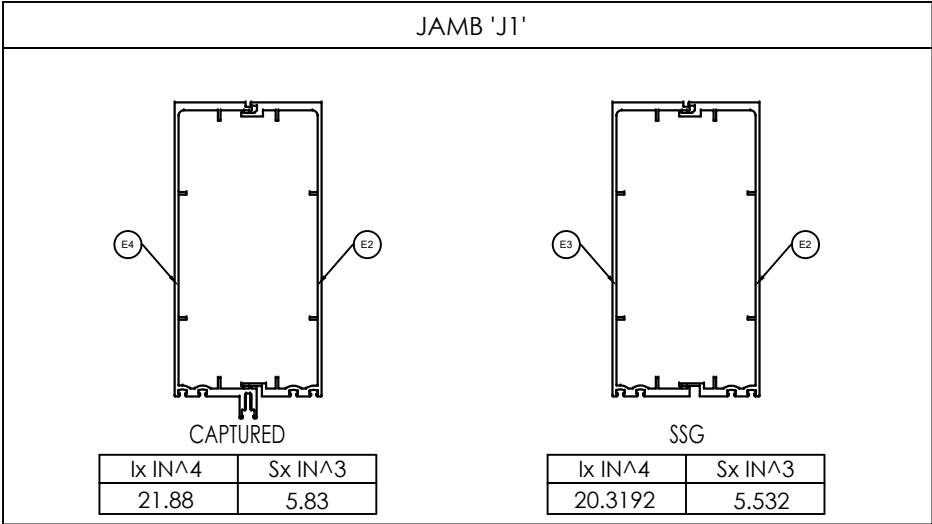


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FL. REG. # 94078

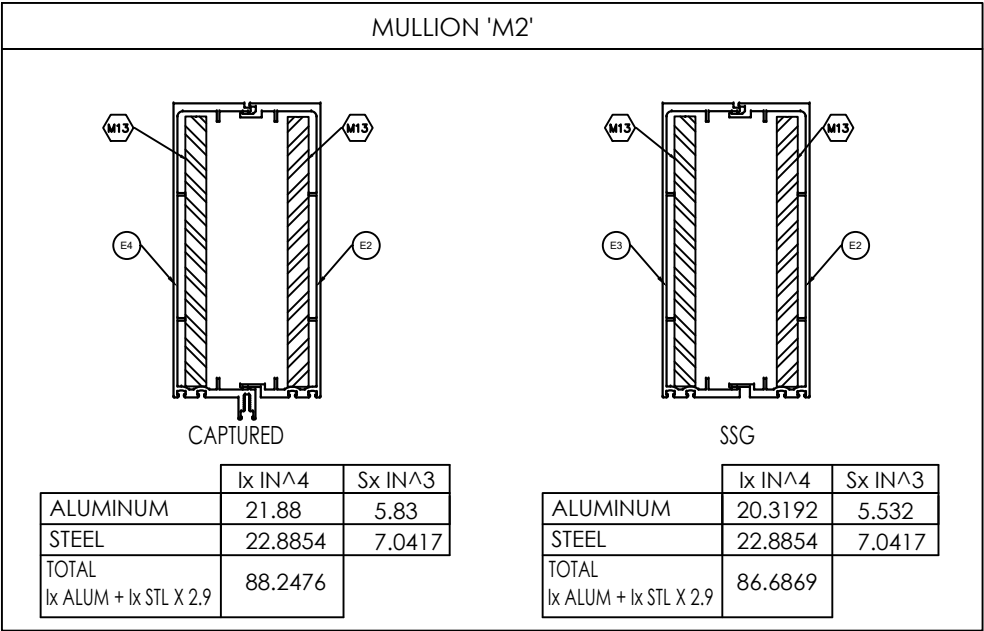
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DWG NUMBER DT-PA-ESW-001	SCALE N.T.S.	
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DOOR MULLION CAPACITY
CAPTURED OR SSG



DESIGN LOAD CAPACITY FOR JAMB 'J1'			
NOMINAL DIMENSIONS			
MAX W1	MAX HEIGHT	+	-
94 3/4"	156"	55	55
LEGEND FOR JAMB 'J1'			
W1: WIDTH TO BE USED IN TABLE FOR JAMB 'J1'			



DESIGN LOAD CAPACITY FOR MULLION 'M2'			
NOMINAL DIMENSIONS			
MAX WIDTH	MAX HEIGHT	+	-
75 1/2"	156"	55	55
LEGEND FOR MULLION 'M2'			
W1:	WIDTH OF UNIT LEFT TO THE ANALYZED MULLION		
W2:	WIDTH OF UNIT RIGHT TO THE ANALYZED MULLION		
W:	TRIBUTARY WIDTH OF ANALYZED MULLION TO BE USED IN THE TABLE ON THE LEFT		
W =	(W1 + W2) / 2		

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JOHN FREDY DELGADO
LICENSE
No. 94078
09/10/2026
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
JOHN DELGADO, P.E.
FL. REG. # 94078

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DWG NUMBER	SCALE	
DT-PA-ESW-001	N.T.S.	
PAGE	24 OF 47	

ANCHOR CAPACITY TABLE
FOR CAPTURED & SSG GLASS

ANCHOR DESIGN LOAD CAPACITY - PSF EXT.(+) & INT. (-)							
NOMINAL DIMS.		ANCHOR TYPE 'A'			ANCHOR TYPE 'B'		
FRAME HEIGHT	WIDTH	A3	A4	A5	B3	B4	B5
120	30	150	150	150	150	150	150
	36	150	150	150	150	150	150
	42	150	150	150	150	150	150
	48	150	150	150	150	150	150
	54	137	150	150	150	150	150
	56	132	150	150	150	150	150
	60	123	150	150	150	150	150
	69	107	110	110	110	110	110
	73	102	110	110	110	110	110
	80	65	65	65	65	65	65
126	30	150	150	150	150	150	150
	36	150	150	150	150	150	150
	42	150	150	150	150	150	150
	48	147	150	150	150	150	150
	54	130	150	150	150	150	150
	56	126	150	150	150	150	150
	60	117	150	150	150	150	150
	69	102	110	110	110	110	110
	73	97	110	110	110	110	110
	80	65	65	65	65	65	65
132	30	150	150	150	150	150	150
	36	150	150	150	150	150	150
	42	150	150	150	150	150	150
	48	140	150	150	150	150	150
	54	124	150	150	150	150	150
	56	120	150	150	150	150	150
	60	112	149	150	150	150	150
	69	97	110	110	110	110	110
	73	92	110	110	110	110	110
	80	65	65	65	65	65	65
136	30	150	150	150	150	150	150
	36	150	150	150	150	150	150
	42	150	150	150	150	150	150
	48	136	150	150	150	150	150
	54	121	150	150	150	150	150
	56	116	150	150	150	150	150
	60	109	145	150	150	150	150
	69	95	110	110	110	110	110
	73	90	110	110	110	110	110
	80	65	65	65	65	65	65
144	30	150	150	150	150	150	150
	36	150	150	150	150	150	150
	42	147	150	150	150	150	150
	48	128	150	150	150	150	150
	54	114	150	150	150	150	150
	56	110	147	150	150	150	150
	60	103	137	150	150	150	150
	69	89	110	110	110	110	110
	73	85	110	110	110	110	110
	80	65	65	65	65	65	65

ANCHOR DESIGN LOAD CAPACITY - PSF EXT.(+) & INT. (-)							
NOMINAL DIMS.		ANCHOR TYPE 'A'			ANCHOR TYPE 'B'		
FRAME HEIGHT	WIDTH	A3	A4	A5	B3	B4	B5
150	30	150	150	150	150	150	150
	36	150	150	150	150	150	150
	42	141	150	150	150	150	150
	48	123	150	150	150	150	150
	54	110	146	150	150	150	150
	56	106	141	150	150	150	150
	60	99	131	150	150	150	150
	69	86	110	110	110	110	110
	73	81	108	110	110	110	110
	80	65	65	65	65	65	65
156	30	150	150	150	150	150	150
	36	150	150	150	150	150	150
	42	135	150	150	150	150	150
	48	118	150	150	150	150	150
	54	105	140	150	150	150	150
	56	102	135	150	150	150	150
	60	95	126	150	150	150	150
	69	82	110	110	110	110	110
	73	78	104	110	110	110	110
	80	65	65	65	65	65	65
162	30	150	150	150	150	150	150
	36	150	150	150	150	150	150
	42	130	150	150	150	150	150
	48	114	150	150	150	150	150
	54	101	135	150	150	150	150
	56	98	130	150	150	150	150
	60	91	122	150	150	150	150
	69	79	106	110	110	110	110
	73	75	100	110	110	110	110
	80	65	65	65	65	65	65
168	30	150	150	150	150	150	150
	36	147	150	150	150	150	150
	42	126	150	150	150	150	150
	48	110	147	150	150	150	150
	54	98	130	150	150	150	150
	56	94	126	150	150	150	150
	60	88	117	147	150	150	150
	69	77	102	110	110	110	110
	73	73	97	110	110	110	110
	80	65	65	65	65	65	65
174	30	150	150	150	150	150	150
	36	142	150	150	150	150	150
	42	121	150	150	150	150	150
	48	106	142	150	150	150	150
	54	94	126	150	150	150	150
	56	91	121	150	150	150	150
	60	85	113	142	150	150	150
	69	74	99	110	110	110	110
	73	70	93	110	110	110	110
	80	64	65	65	65	65	65

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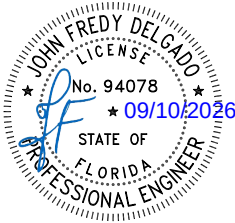
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ES-8860i ALUMINUM
WINDOW WALL SYSTEM
LARGE MISILE IMPACT

FL #44674.1

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TECHNICAL INC.**
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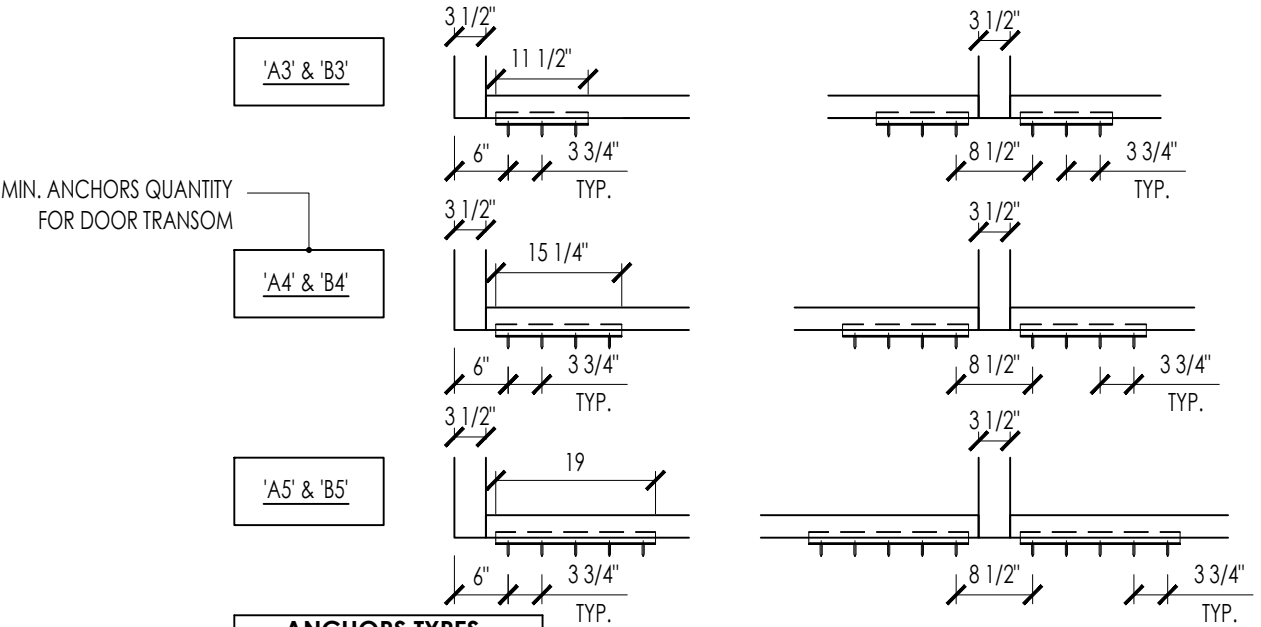
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DWG NUMBER DT-PA-ESW-001	SCALE N.T.S.	
PAGE 25 OF 47		

ANCHOR CAPACITY TABLE
FOR CAPTURED & SSG GLASS

ANCHOR DESIGN LOAD CAPACITY - PSF EXT.(+) & INT. (-)							
NOMINAL DIMS.		ANCHOR TYPE 'A'			ANCHOR TYPE 'B'		
FRAME HEIGHT	WIDTH	A3	A4	A5	B3	B4	B5
180	30	150	150	150	150	150	150
	36	137	150	150	150	150	150
	42	117	150	150	150	150	150
	48	103	137	150	150	150	150
	54	91	122	150	150	150	150
	56	88	117	147	150	150	150
	60	82	110	137	148	150	150
	69	71	95	110	110	110	110
	73	68	90	110	110	110	110
	80	62	65	65	65	65	65
184	30	150	150	150	150	150	150
	36	134	150	150	150	150	150
	42	115	150	150	150	150	150
	48	100	134	150	150	150	150
	54	89	119	149	150	150	150
	56	86	115	143	150	150	150
	60	80	107	134	145	150	150
	69	70	93	110	110	110	110
	73	66	88	110	110	110	110
190	30	150	150	150	150	150	150
	36	130	150	150	150	150	150
	42	111	148	150	150	150	150
	48	97	130	150	150	150	150
	54	86	115	144	150	150	150
	56	83	111	139	150	150	150
	60	78	104	130	140	150	150
	66	70	94	110	110	110	110
	73	64	86	107	110	110	110
196	30	150	150	150	150	150	150
	36	126	150	150	150	150	150
	42	108	144	150	150	150	150
	48	94	126	150	150	150	150
	54	84	112	140	150	150	150
	56	81	108	135	146	150	150
	60	75	101	126	136	150	150
	66	68	91	110	110	110	110
	73	62	83	104	110	110	110
202	30	146	150	150	150	150	150
	36	122	150	150	150	150	150
	42	105	139	150	150	150	150
	48	91	122	150	150	150	150
	54	81	108	136	147	150	150
	56	78	105	131	141	150	150
	60	73	98	122	132	150	150
	66	66	88	110	110	110	110
	73	60	80	101	109	110	110
206	80	55	65	65	65	65	65

ANCHOR DESIGN LOAD CAPACITY - PSF EXT.(+) & INT. (-)							
NOMINAL DIMS.		ANCHOR TYPE 'A'			ANCHOR TYPE 'B'		
FRAME HEIGHT	WIDTH	A3	A4	A5	B3	B4	B5
206	30	144	150	150	150	150	150
	36	120	150	150	150	150	150
	42	103	137	150	150	150	150
	48	90	120	150	150	150	150
	54	80	106	133	144	150	150
	56	77	103	128	139	150	150
	60	72	96	120	129	150	150
	66	65	86	108	110	110	110
	73	59	79	99	107	110	110
	80	54	65	65	65	65	65



ANCHORS TYPES	
A3 =	(3) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION
B3 =	(3) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION
A4 =	(4) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION
B4 =	(4) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION
A5 =	(5) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION
B5 =	(5) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION

TYPICAL ANCHORS:	
TYPE 'A'	TYPE 'B'
5/16" DIA. ULTRACON BY 'DEWALT' (FU=177 KSI, Fy=155 KSI) 2" MIN. EMBEDDIRECTLY INTO CONCRETE (3500 PSI MIN.) ANCHOR EDGE DISTANCES INTO CONCRETE = 2 1/2" MIN.	5/16" DIA. DRIL-FLEX SELF DILLING SCREWS BY 'DEWALT' (GRADE 5 CRS) INTO METAL STRUCTURES (3) THREADS MIN. PENETRATION BEYOND SUBTRATE ALUMINUM: 1/8" THK. MIN. (FY=25 KSI MIN.) STEEL: 3/16" THK. MIN. (Fy = 36 KSI MIN.) (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED) ANCHOR EDGE DISTANCES INTO METAL STRUCTURE = 1" MIN.

SEE ELEV. FOR SPACING

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LARGE MISILE IMPACT

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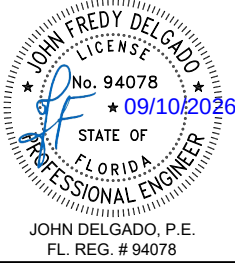
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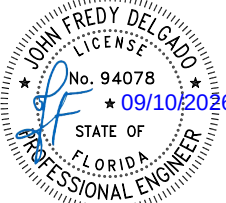
No.	Date:	Revision:

ENGINEER:

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CA# 36112

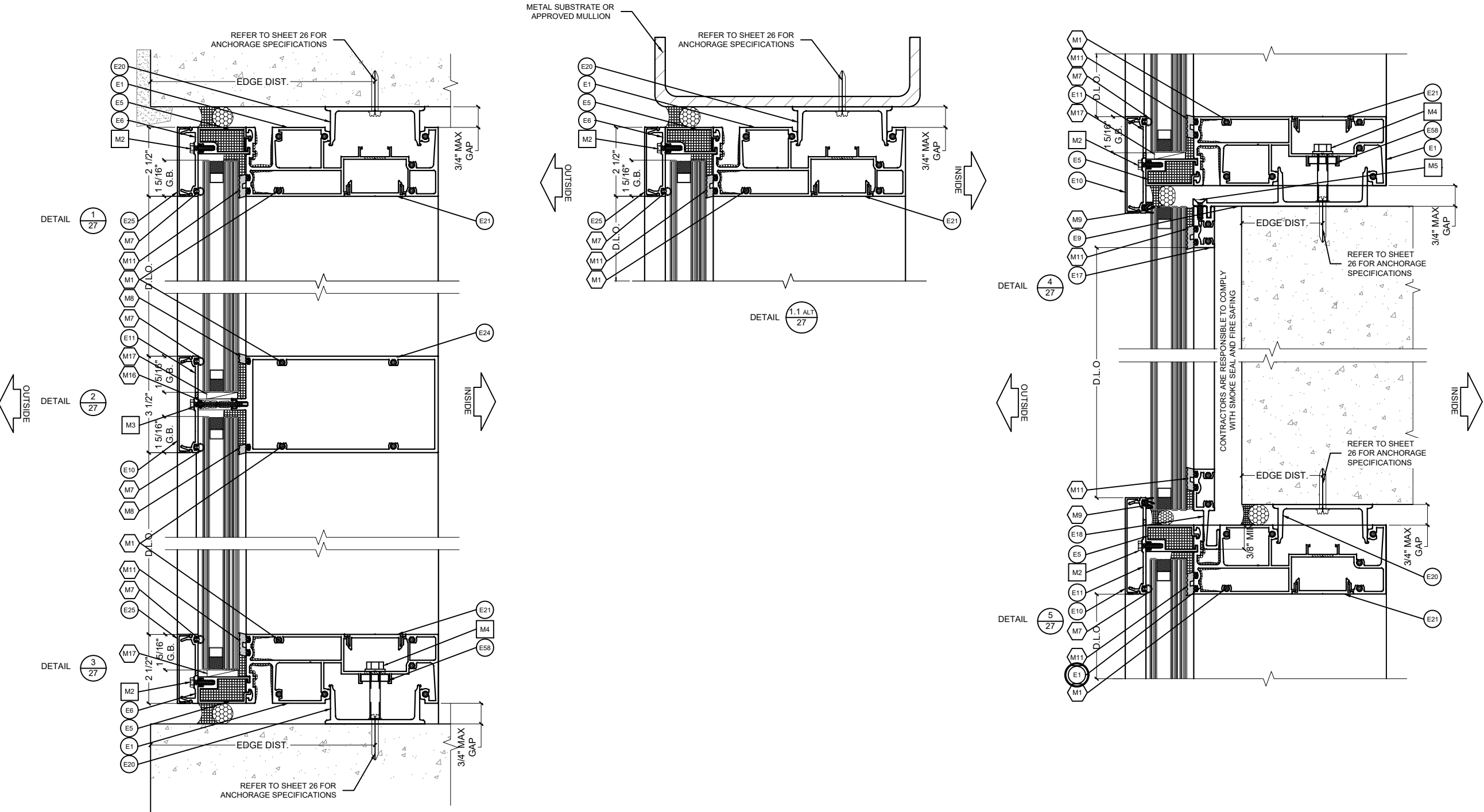
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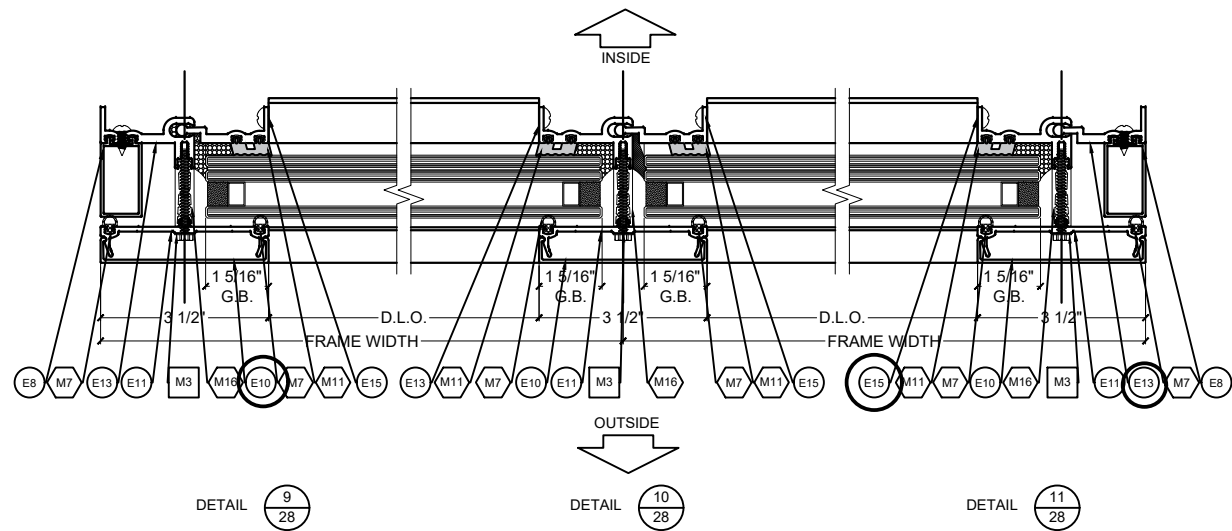
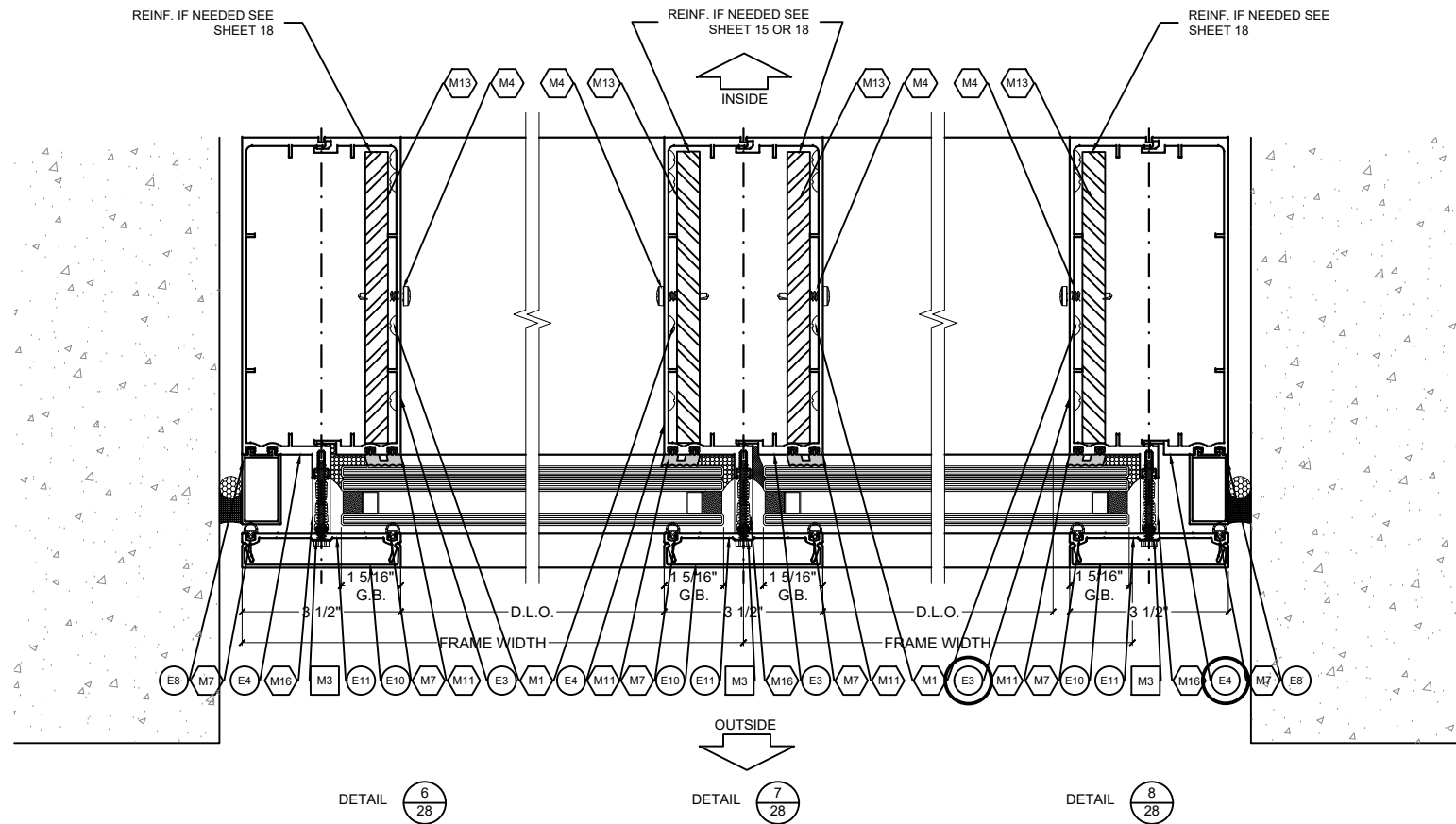


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FL. REG. # 94078

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DWG NUMBER DT-PA-ESW-001	SCALE 3"=1'-0"	
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8860i CAPTURED GLASS
DETAILS



8860i CAPTURED GLASS
DETAILS

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PROJECT
ES-8860i ALUMINUM
WINDOW WALL SYSTEM
LARGE MISILE IMPACT

FL #44674.1

DRAWING REVISION LOG		
No.	Date:	Revision:

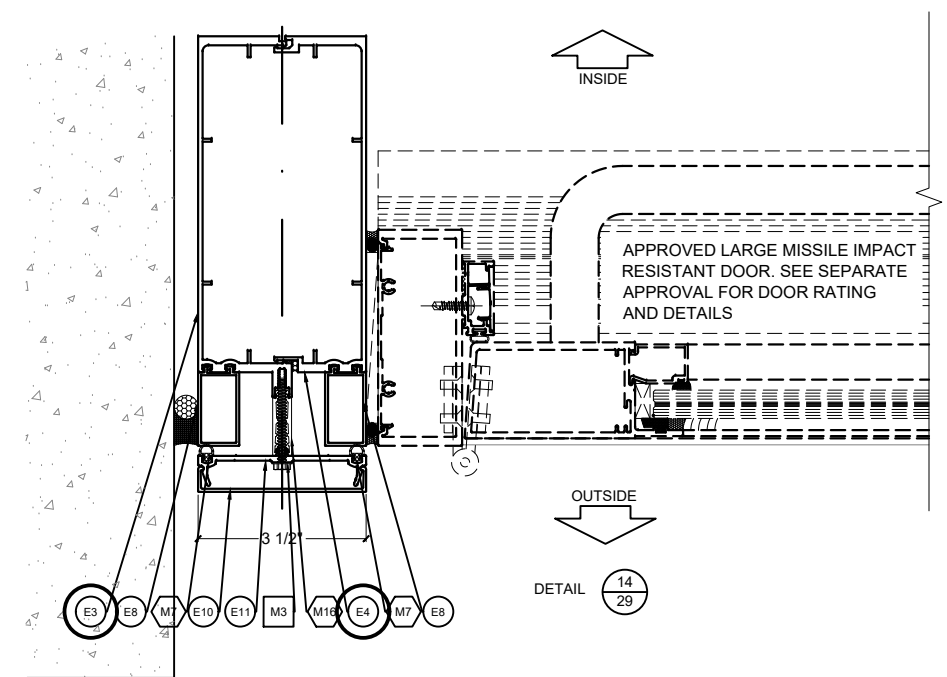
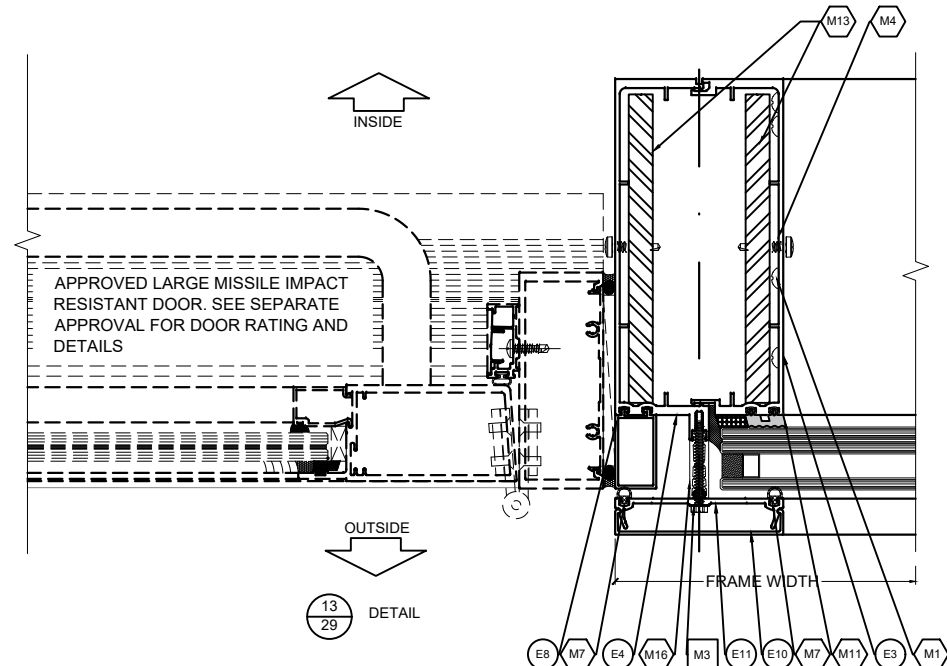
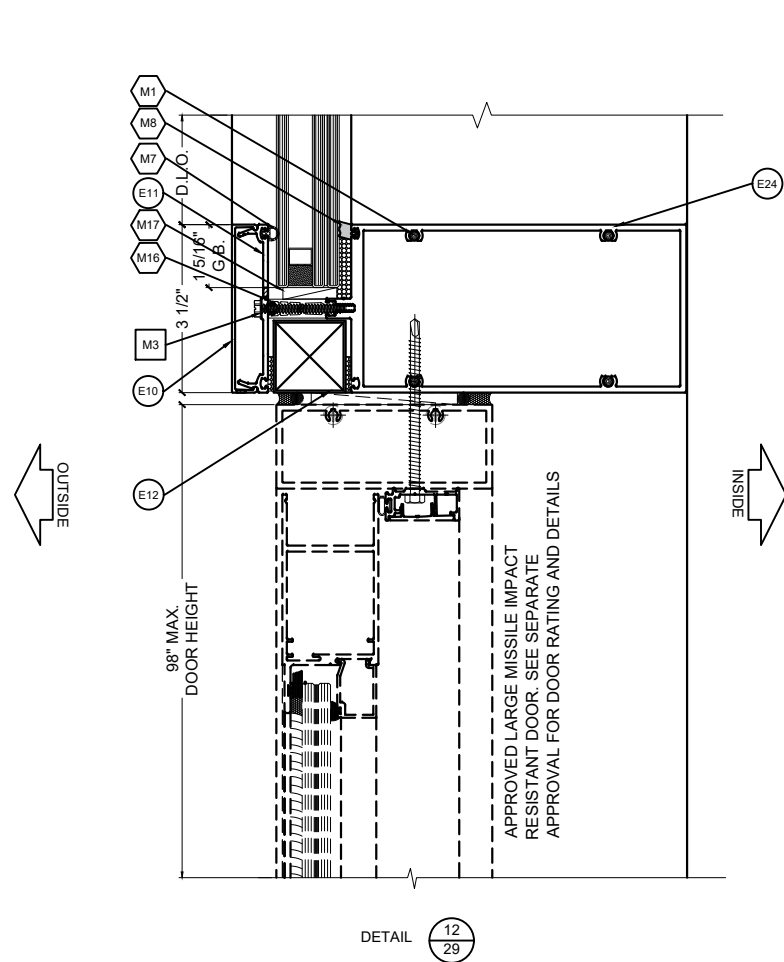
ENGINEER:
DEERFIELD
TECHNICAL INC.
CA# 36112
111 NORTH ORANGE AVE.
SUITE 800
ORLANDO, FL 32801

CHECKED FOR STRUCTURAL
COMPLIANCE ONLY. BY:

JOHN FREDY DELGADO
LICENSE
No. 94078
09/10/2026
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

JOHN DELGADO, P.E.
FL. REG. # 94078

PREPARED BY AC	DRAFTED BY SV	DATE 12/15/2023
DWG NUMBER DT-PA-ESW-001	SCALE 3"=1'-0"	
PAGE 28 OF 47		



8860i CAPTURED GLASS DETAILS

E.S.
WINDOWS, LLC

3550 N.W. 49 STREET
MIAMI, FL 33142
TEL. (305) 638-5151
FAX. (305) 638-5158

PROJECT
ES-8860i ALUMINUM
WINDOW WALL SYSTEM
LARGE MISILE IMPACT

FL #44674.1

DRAWING REVISION LOG		
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PAGE 29 OF 47		

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ES-8860i ALUMINUM
WINDOW WALL SYSTEM
LARGE MISILE IMPACT

FL #44674.1

DRAWING REVISION LOG

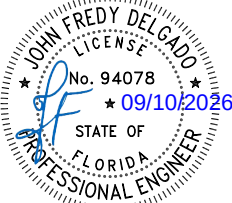
No.	Date:	Revision:

ENGINEER:

DEERFIELD
TECHNICAL INC.
CA# 36112

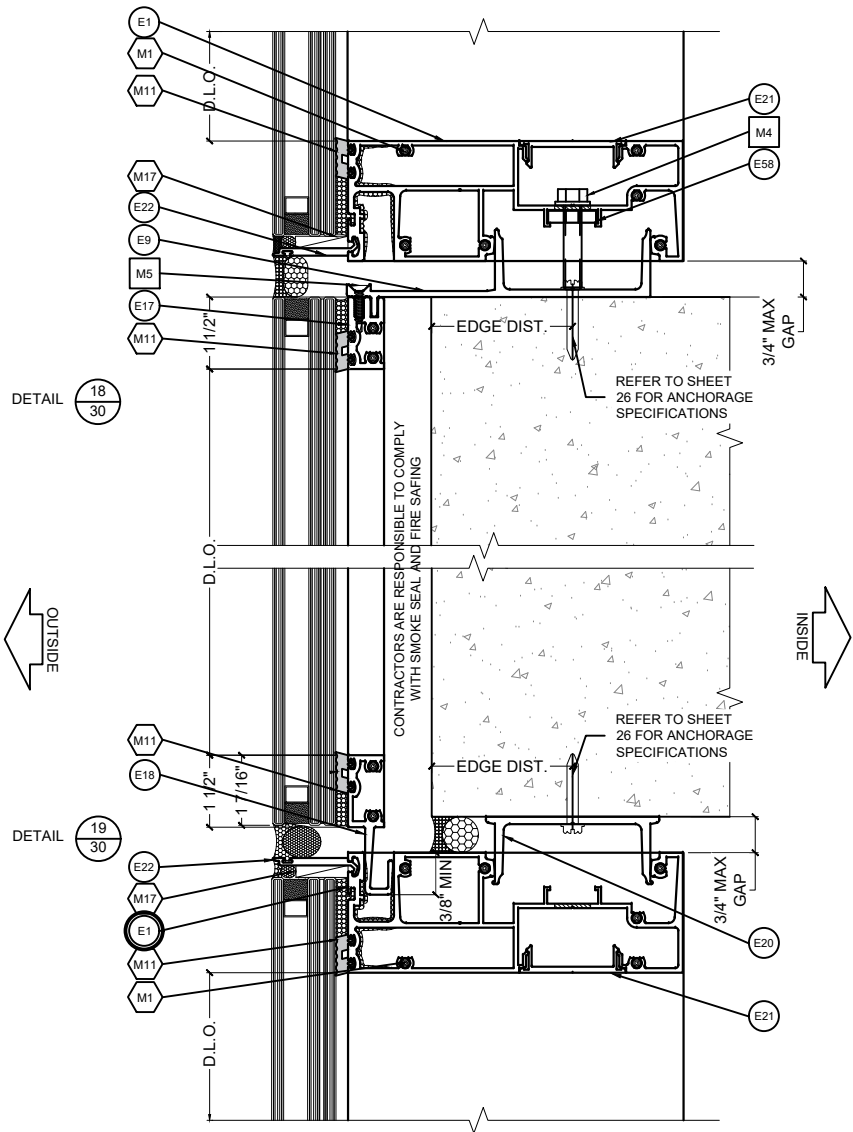
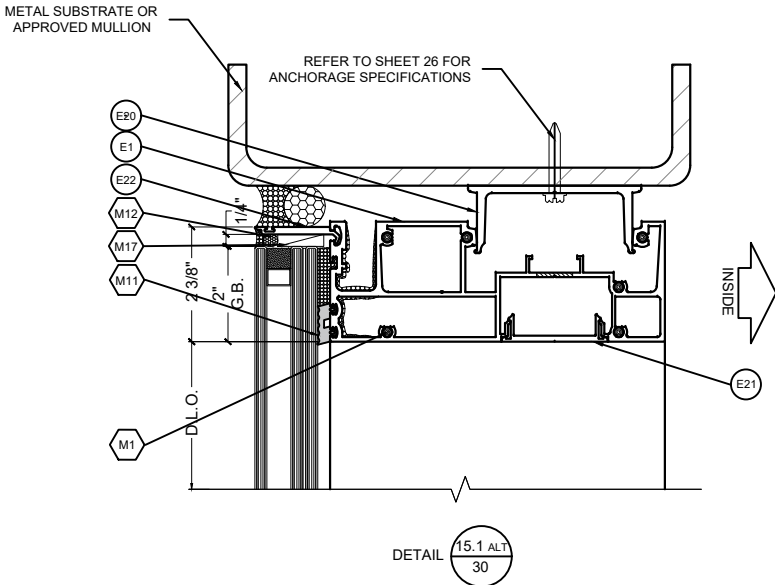
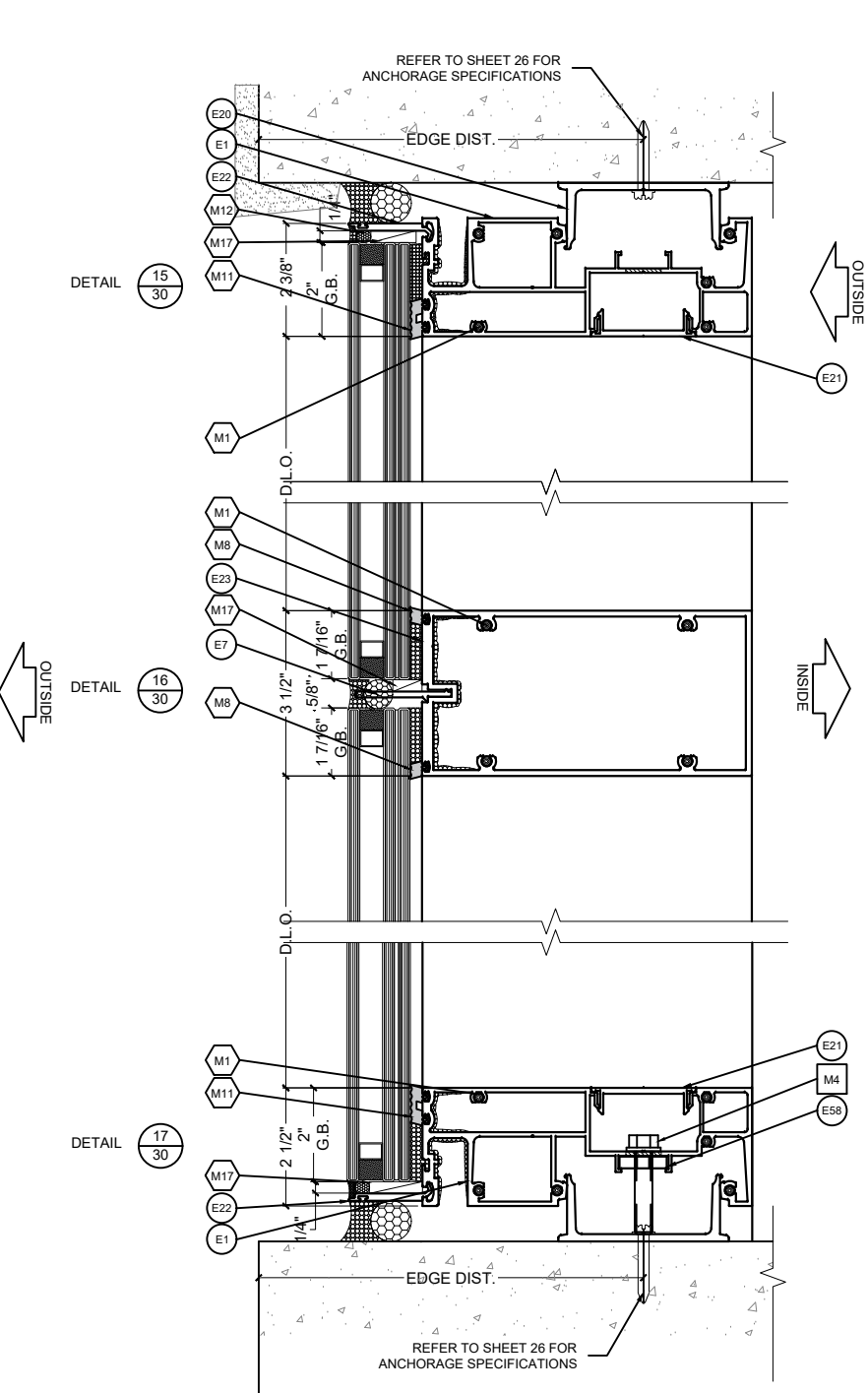
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8860i SSG GLASS
DETAILS

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WINDOWS, LLC

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PROJECT
ES-8860i ALUMINUM
WINDOW WALL SYSTEM
LARGE MISILE IMPACT

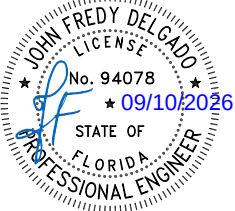
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No.	Date:	Revision:

ENGINEER:
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CA# 36112

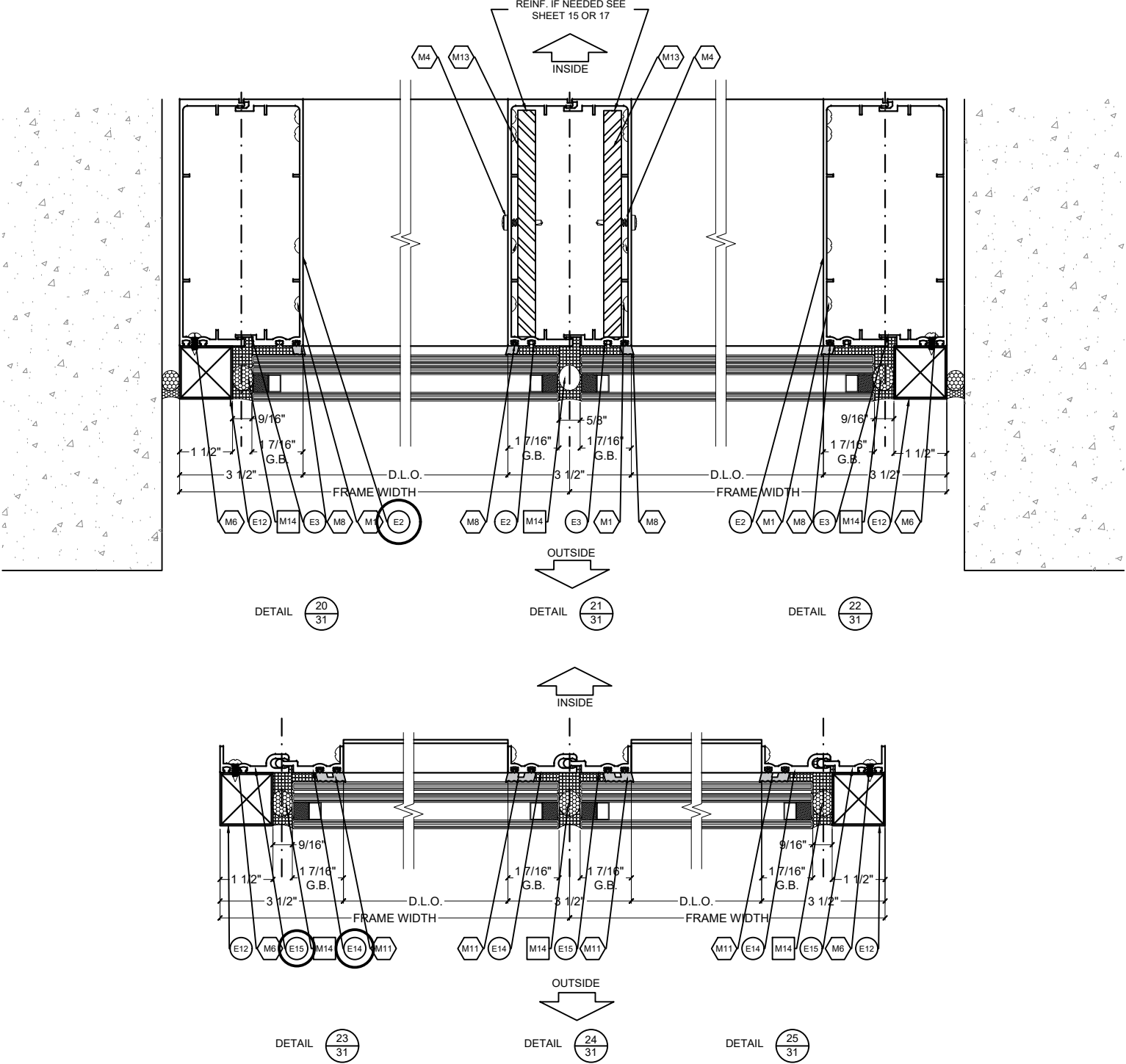
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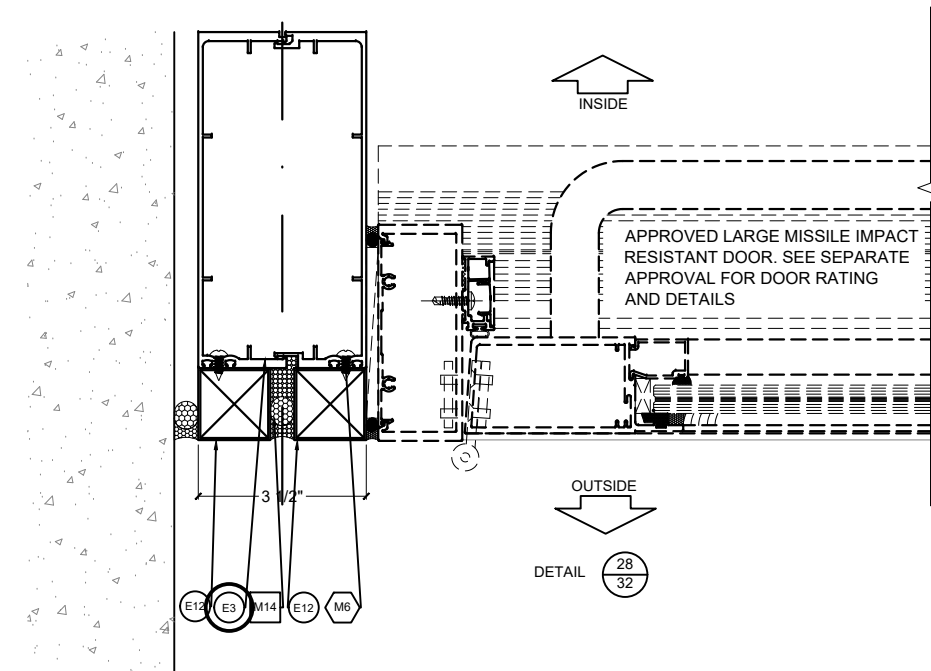
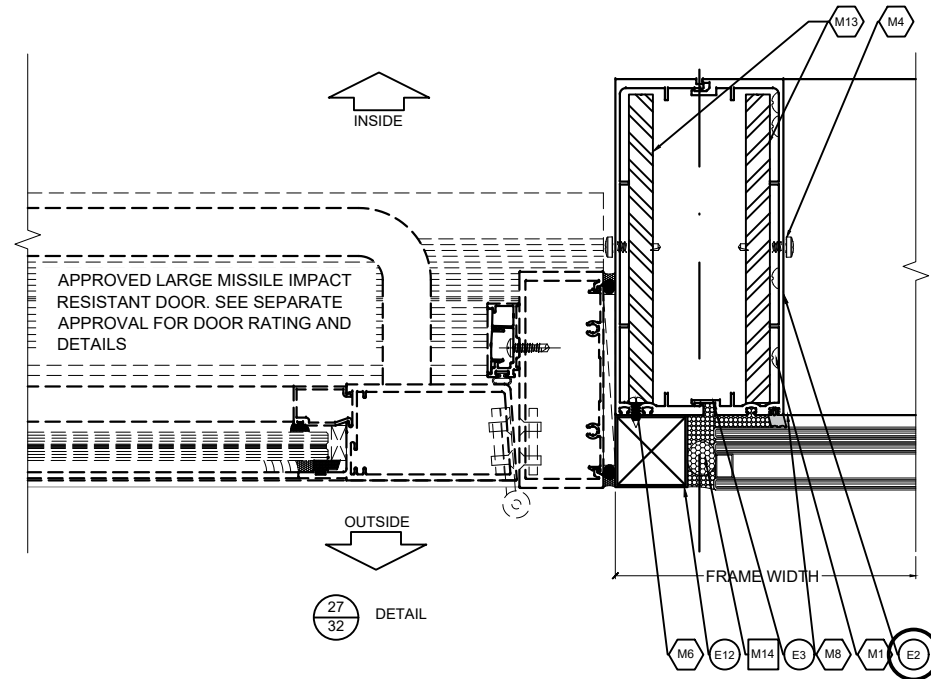
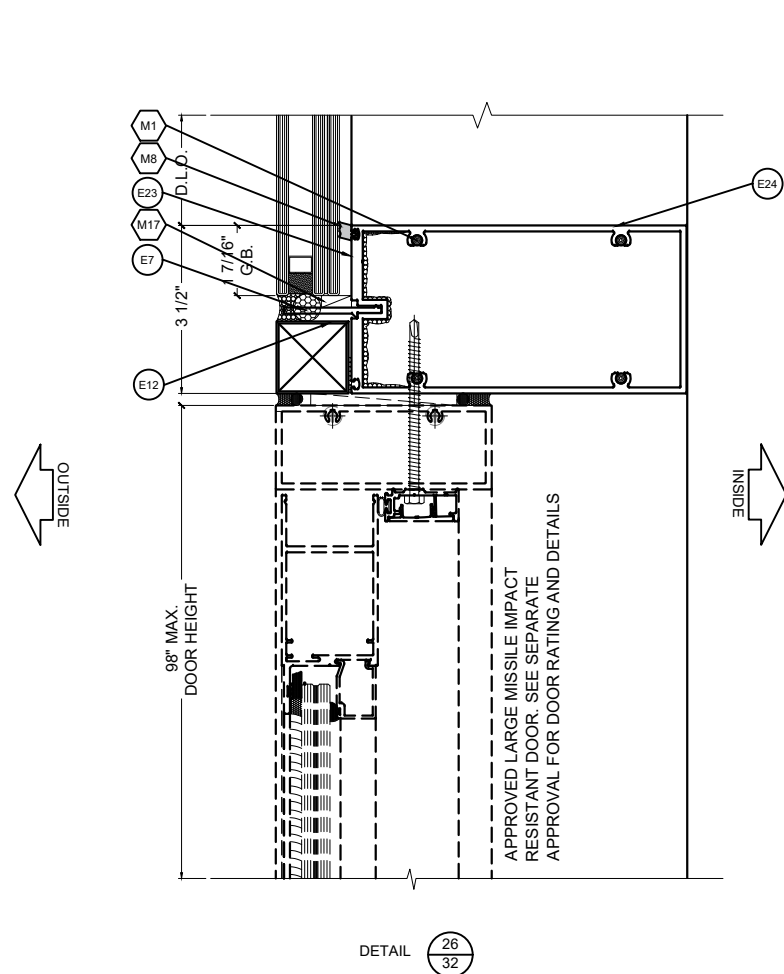


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8860i SSG GLASS
DETAILS



8860i SSG GLASS DETAILS

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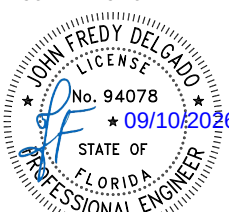
PROJECT
ES-8860i ALUMINUM
WINDOW WALL SYSTEM
LARGE MISILE IMPACT

FL #44674.1

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No.	Date:	Revision:

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ES-8860i ALUMINUM
WINDOW WALL SYSTEM
LARGE MISILE IMPACT

FL #44674.1

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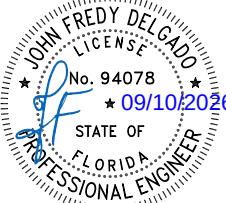
No.	Date:	Revision:

ENGINEER:

DEERFIELD
TECHNICAL INC.
CA# 36112

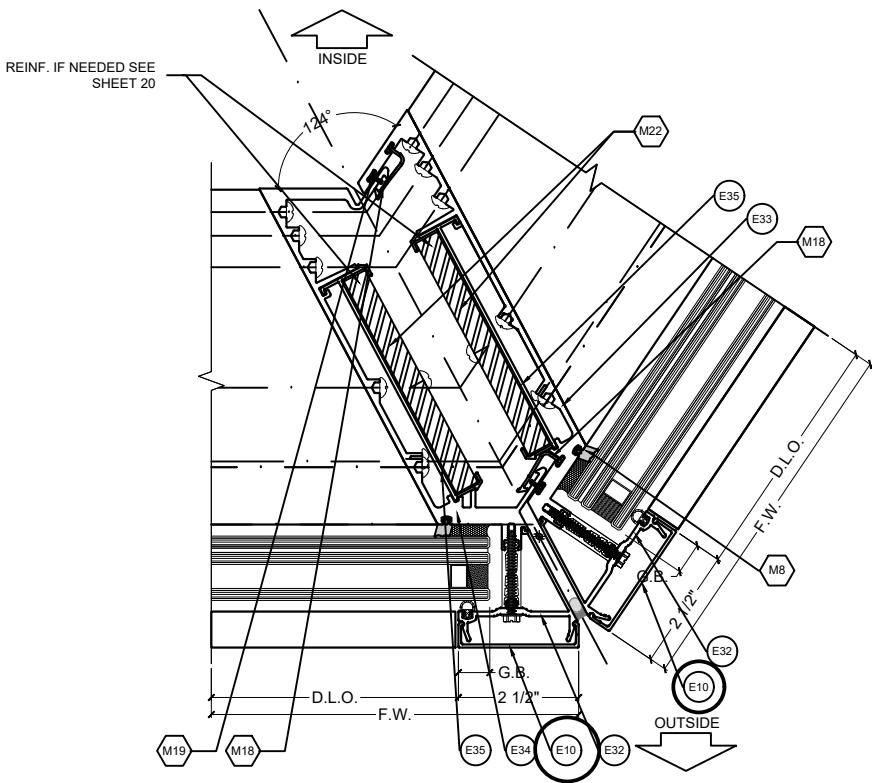
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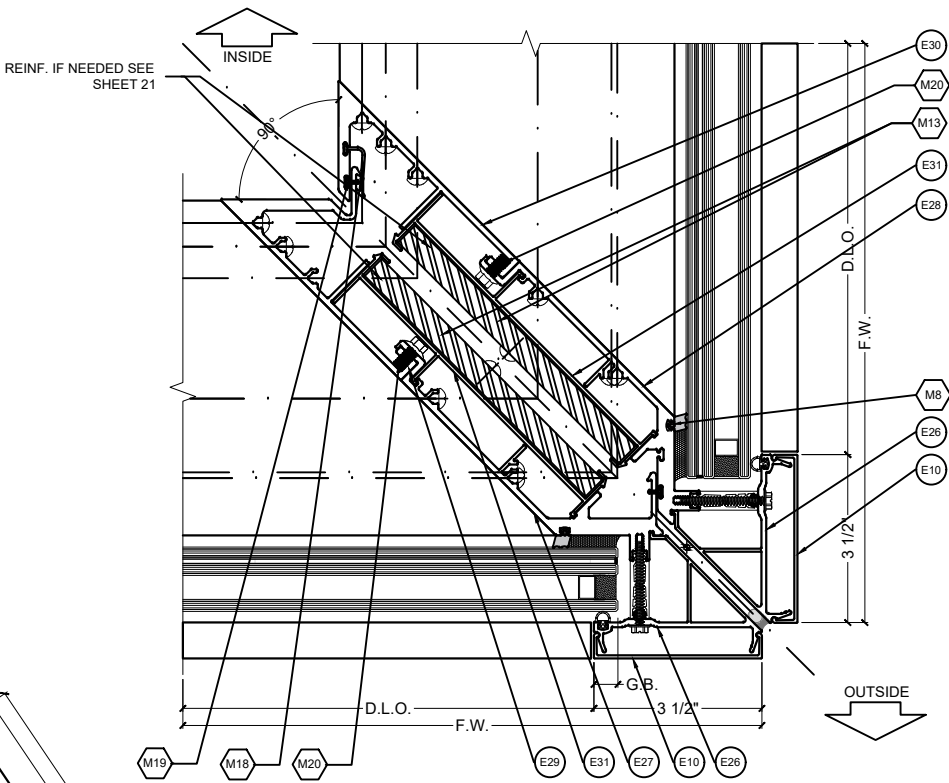


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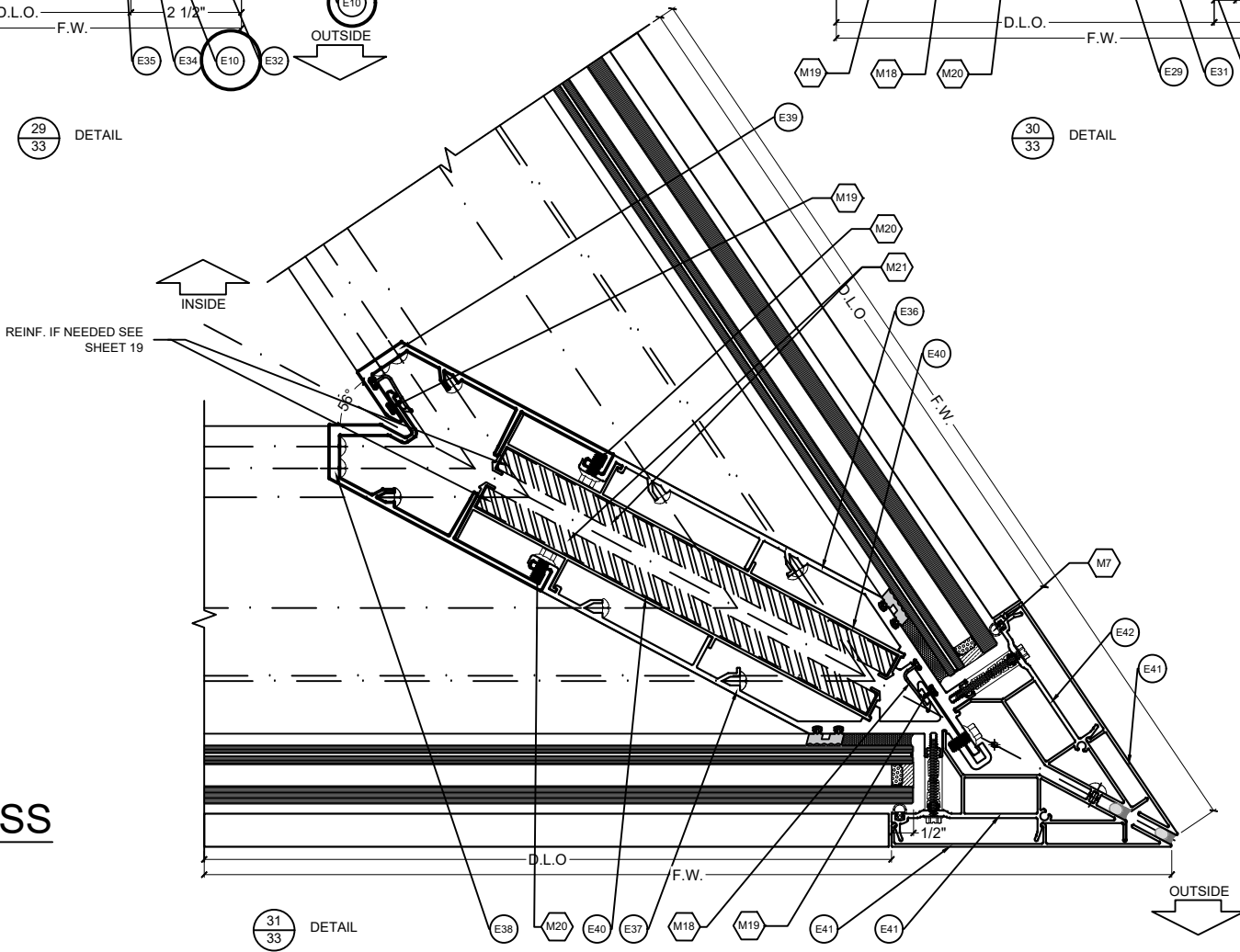
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DWG NUMBER DT-PA-ESW-001	SCALE 3"=1'-0"	
PAGE 33 OF 47		



29
33 DETAIL



30
33 DETAIL



31
33 DETAIL

8860i SSG GLASS
DETAILS

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PROJECT
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WINDOW WALL SYSTEM
LARGE MISILE IMPACT

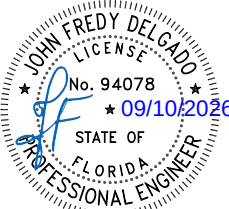
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ENGINEER:
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CA# 36112

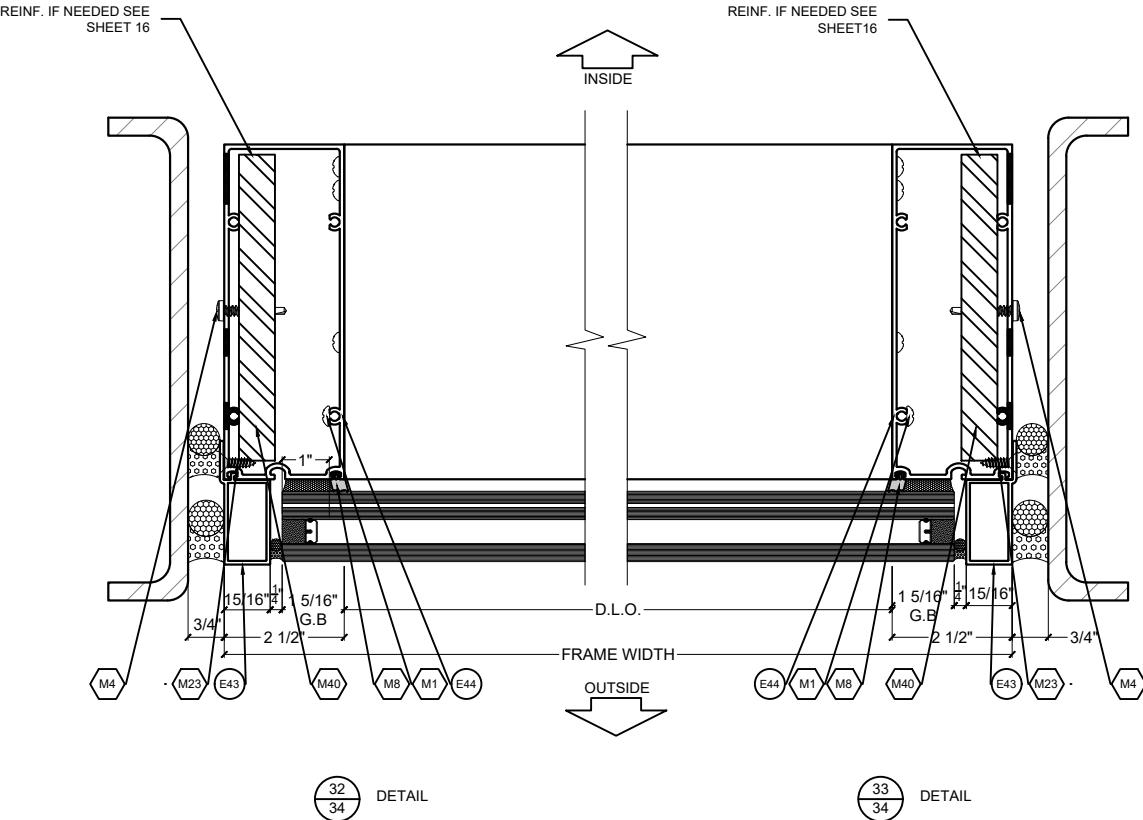
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DWG NUMBER DT-PA-ESW-001	SCALE 3"=1'-0"	
PAGE 34 OF 47		



8860i SSG GLASS
DETAILS

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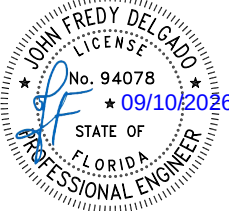
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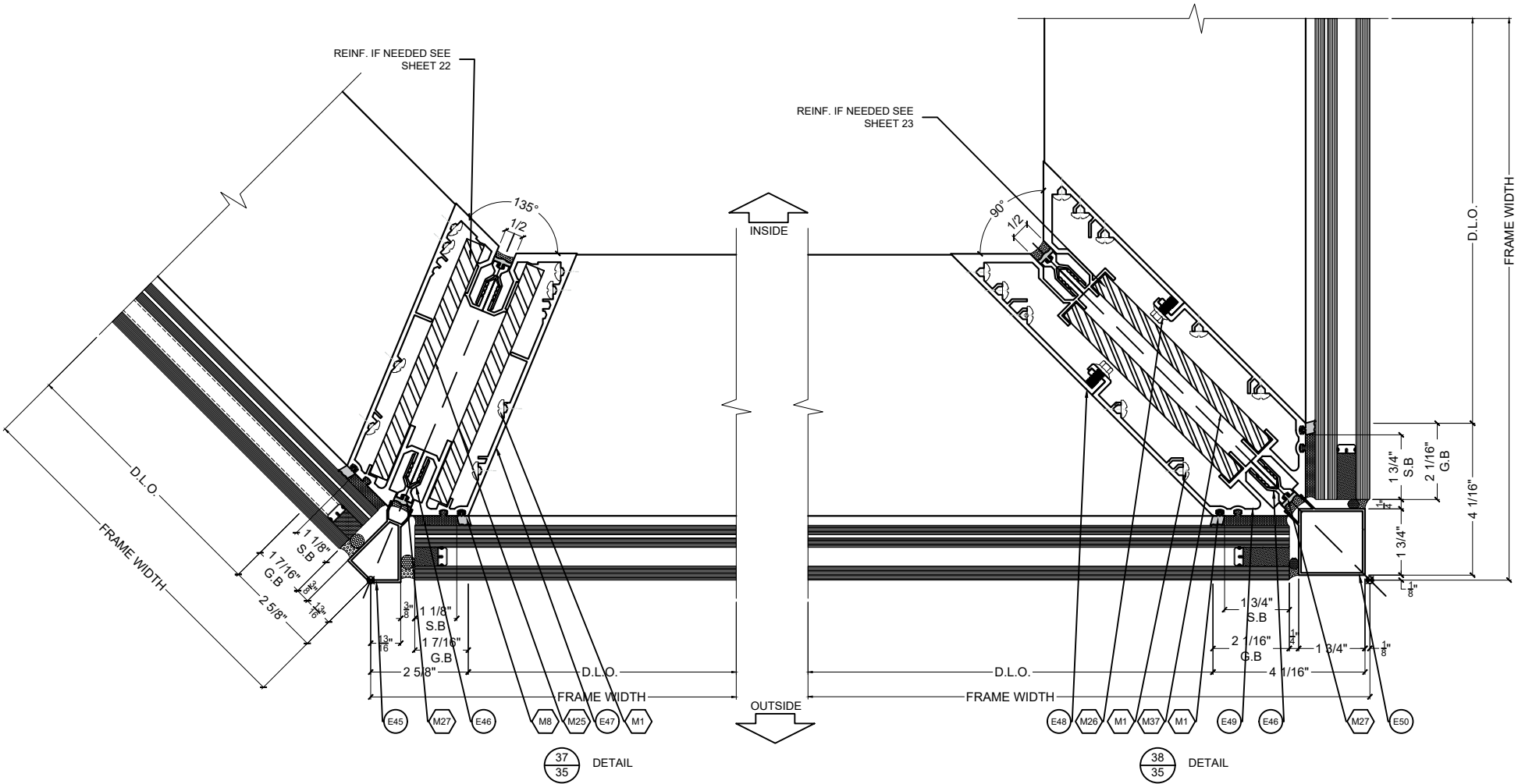
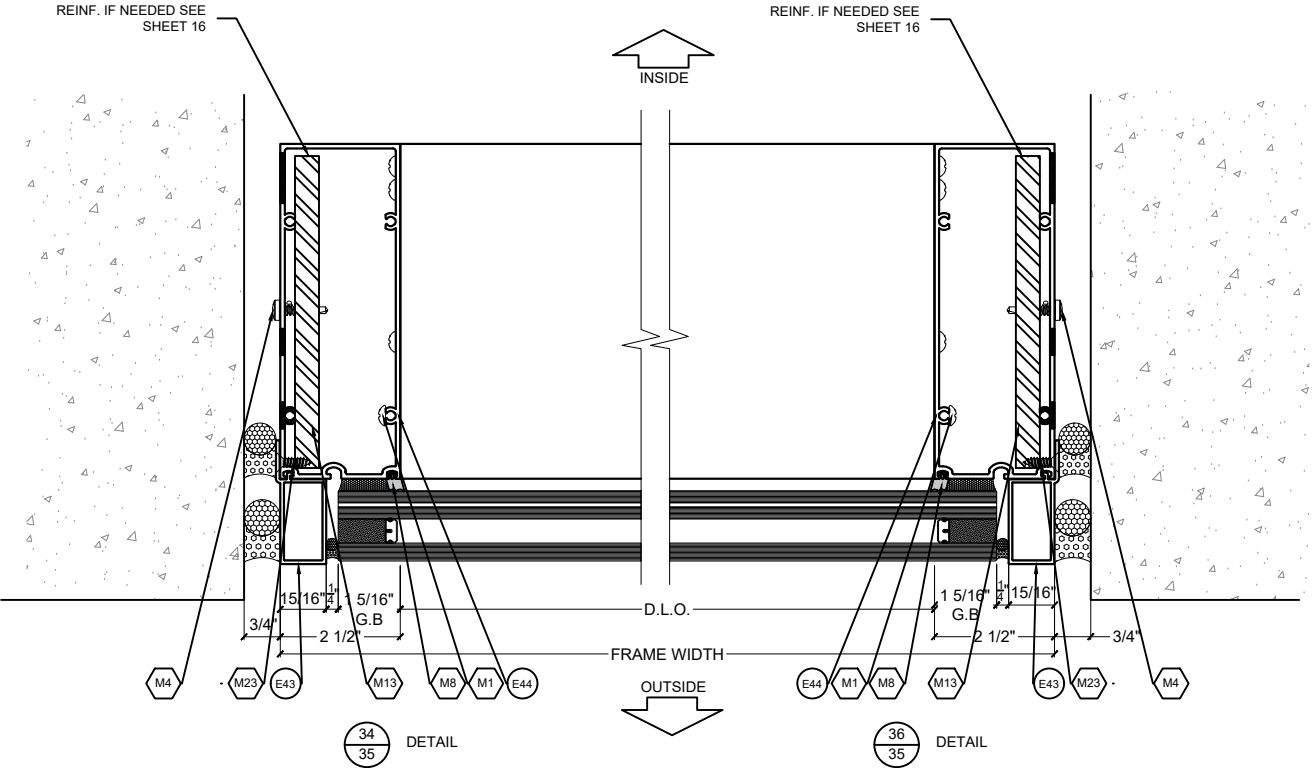
ENGINEER:
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PAGE 35 OF 47		



8860i SSG GLASS
DETAILS

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MIAMI, FL 33142
TEL. (305) 638-5151
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FL #44674.1

[illegible]

111 NORTH ORANGE AVE.
SUITE 800
ORLANDO, FL 32801

A circular professional engineer license seal for John Fredy Delgado, State of Florida, License No. 94078. The seal features the text "JOHN FREDY DELGADO" at the top, "LICENSE" below it, "No. 94078" in the center, and "STATE OF FLORIDA" at the bottom. The words "PROFESSIONAL ENGINEER" are written along the bottom inner edge. A blue ink signature "JF" is written over the seal, and a blue date stamp "09/10/2026" is visible on the right side.

PREPARED BY AC	DRAFTED BY SV	DATE 12/15/2023
DWG NUMBER DT-PA-ESW-001		SCALE 3"=1'-0"
PAGE 36 OF 47		



E.S.
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ES-8860i ALUMINUM
WINDOW WALL SYSTEM
LARGE MISILE IMPACT

FL #44674.1

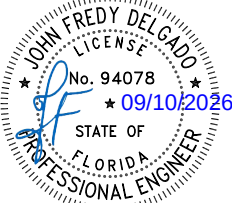
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ENGINEER:
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CA# 36112

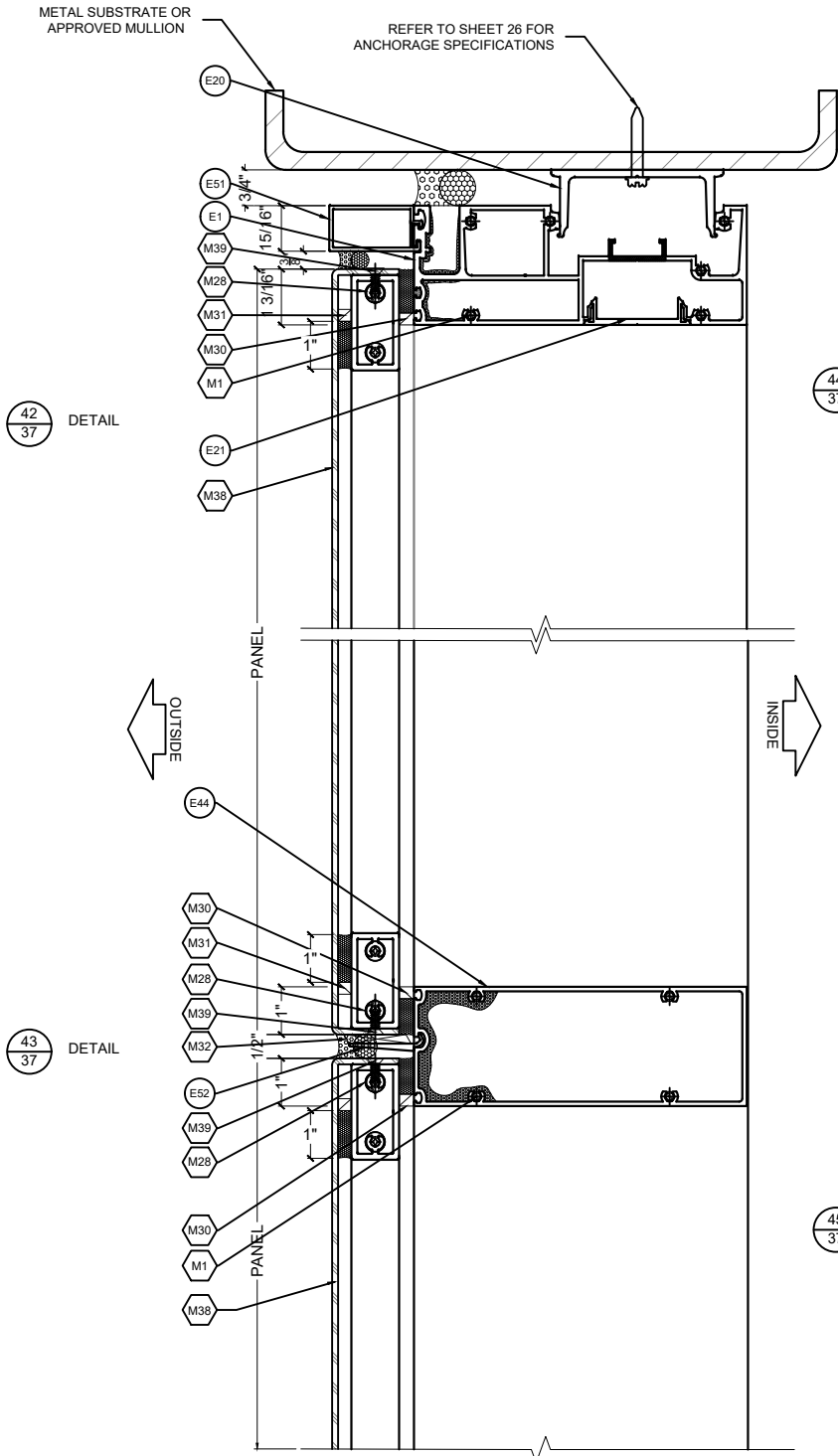
111 NORTH ORANGE AVE.
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ORLANDO, FL 32801

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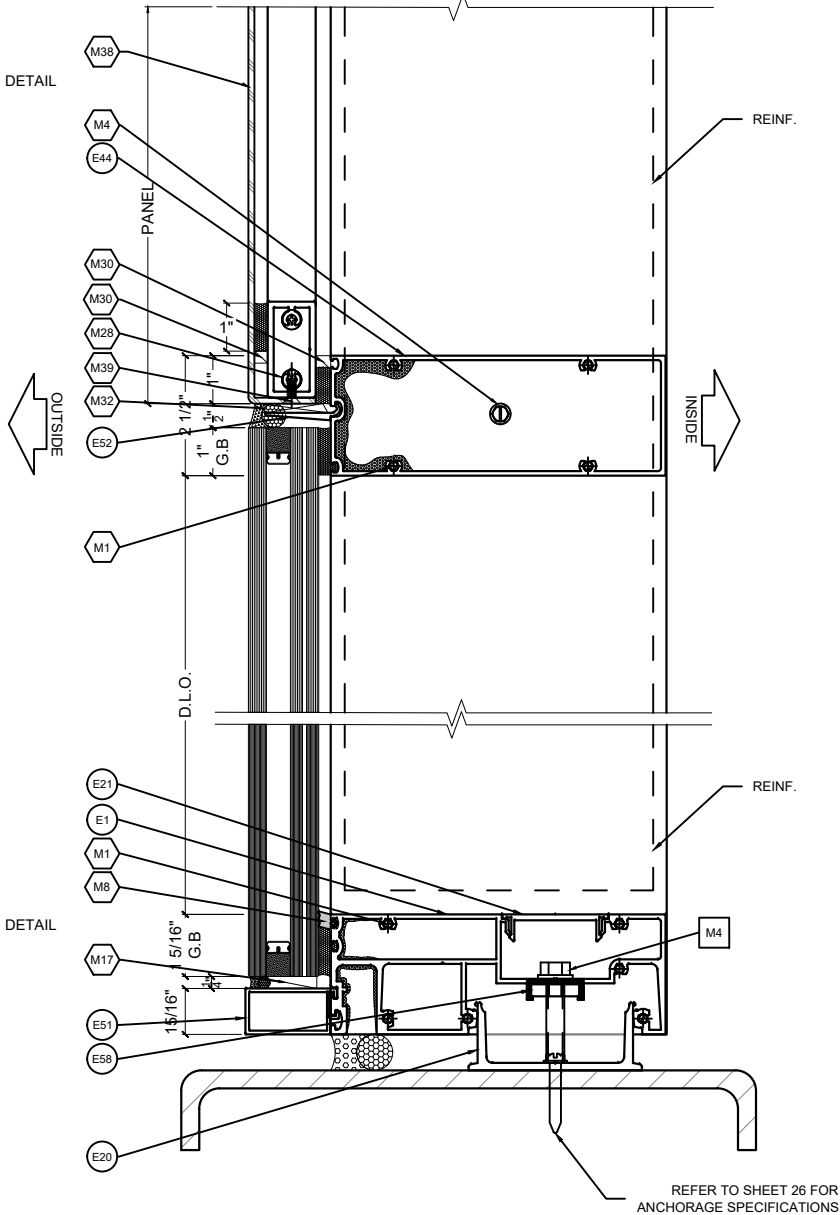
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FL. REG. # 94078

PREPARED BY AC	DRAFTED BY SV	DATE 12/15/2023
DWG NUMBER DT-PA-ESW-001	SCALE 3"=1'-0"	
PAGE 37 OF 47		



44
37

DETAIL

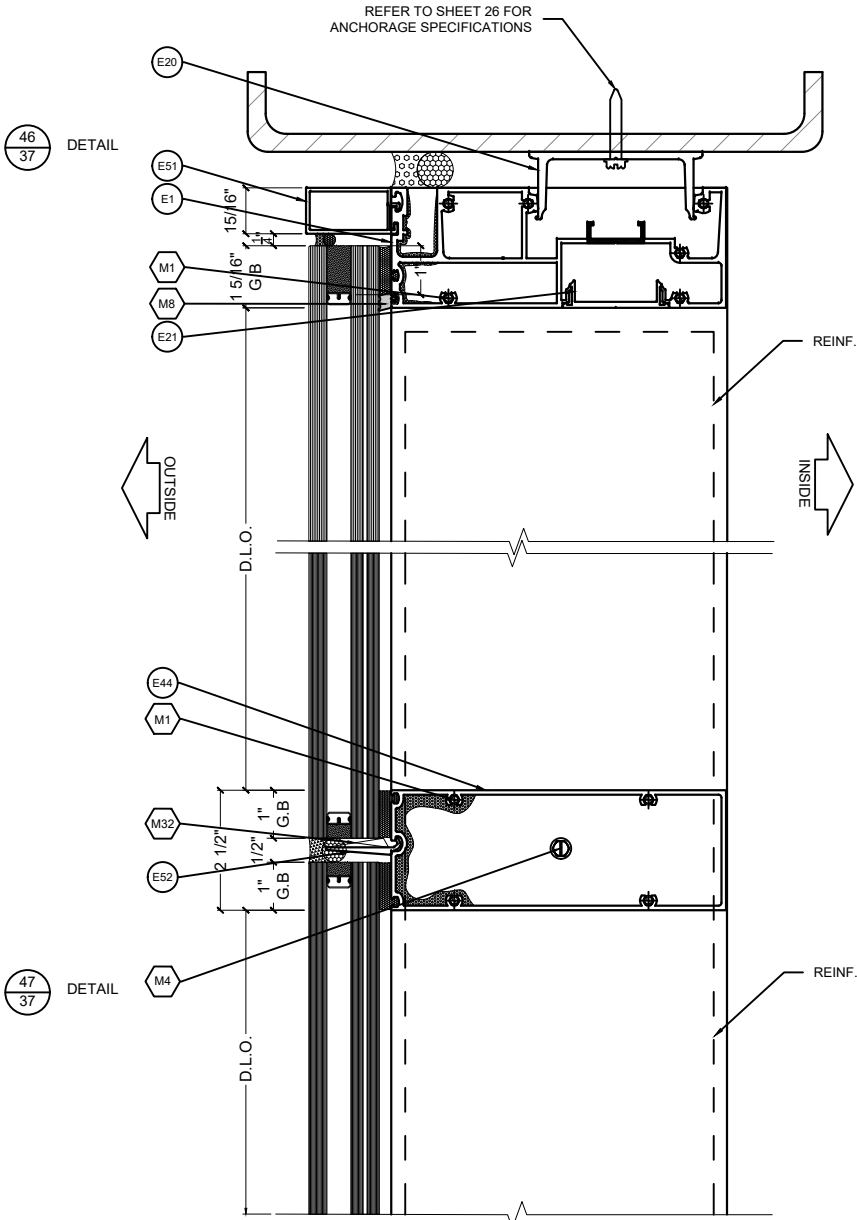


45
37

DETAIL

46
37

DETAIL



47
37

DETAIL

8860i SSG GLASS
DETAILS

E.S.
WINDOWS, LLC

3550 N.W. 49 STREET
MIAMI, FL 33142
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ES-8860i ALUMINUM
WINDOW WALL SYSTEM
LARGE MISILE IMPACT

FL #44674.1

DRAWING REVISION LOG

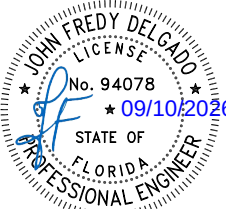
No.	Date:	Revision:

ENGINEER:

DEERFIELD
TECHNICAL INC.
CA# 36112

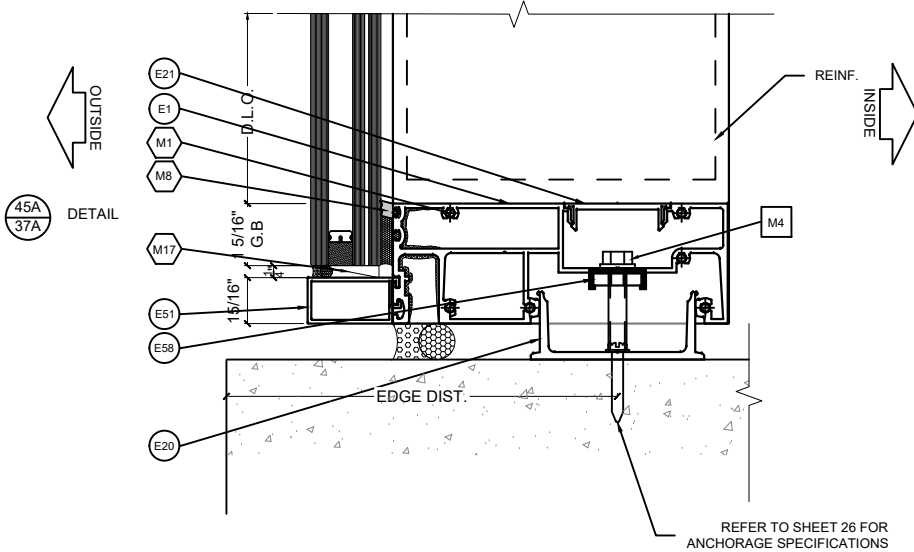
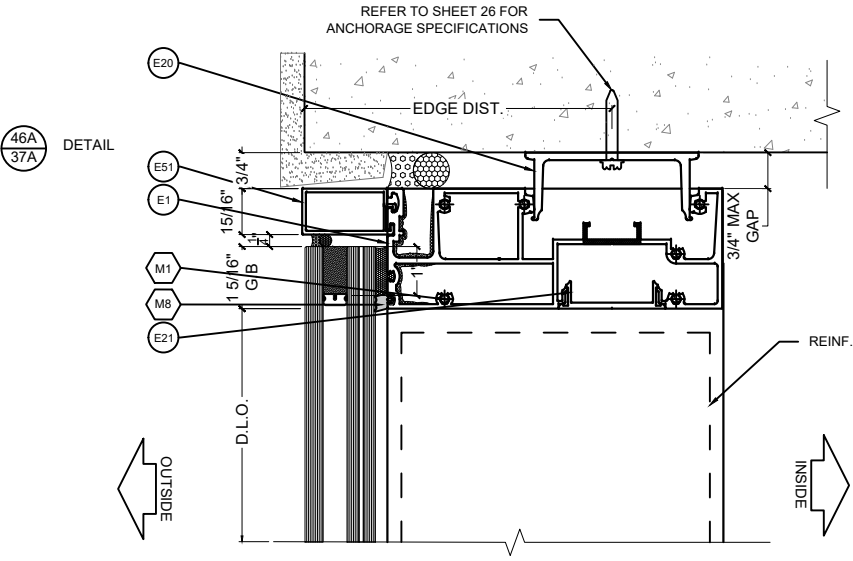
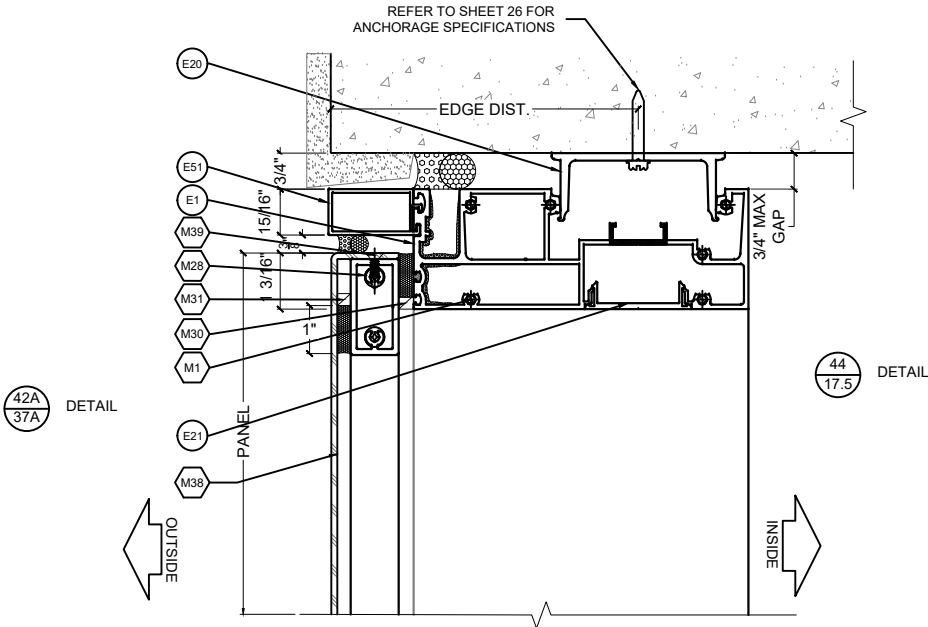
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PAGE 37A OF 47		



8860i SSG GLASS
DETAILS

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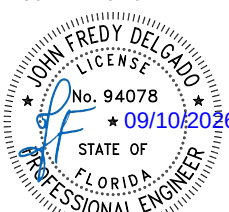
PROJECT
ES-8860i ALUMINUM
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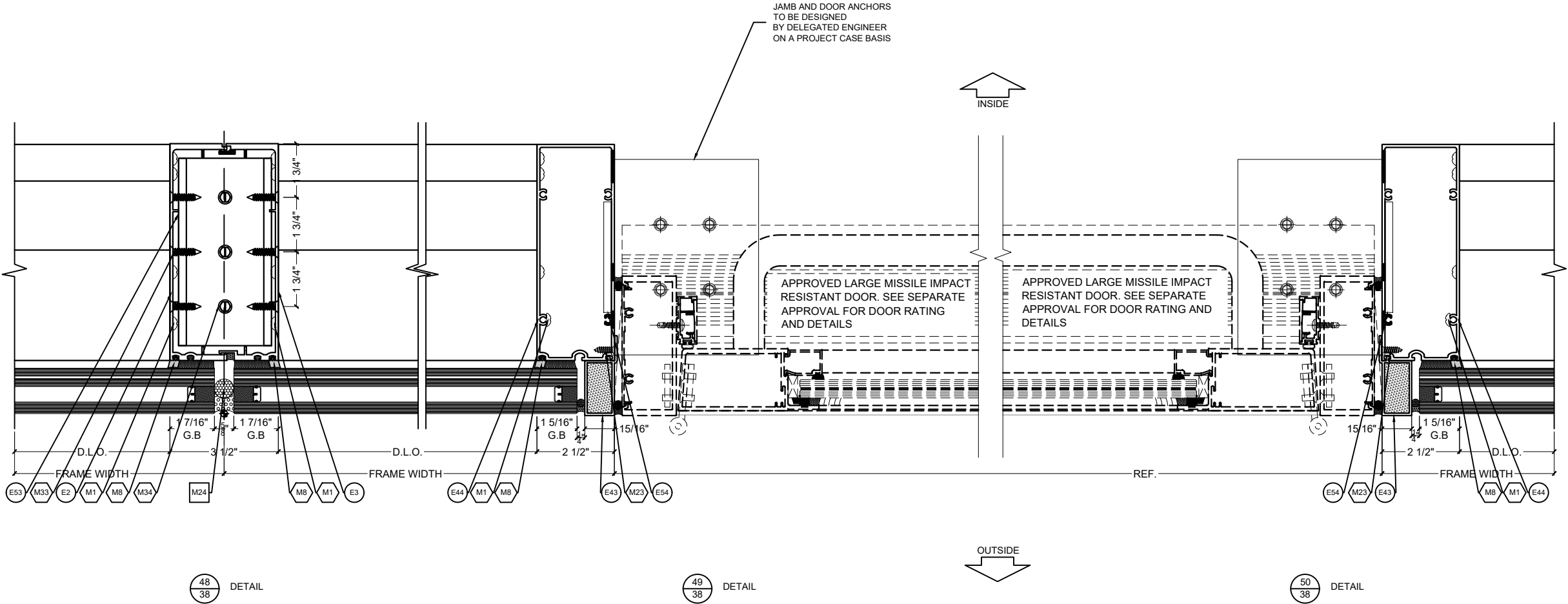
ENGINEER:
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ORLANDO, FL 32801

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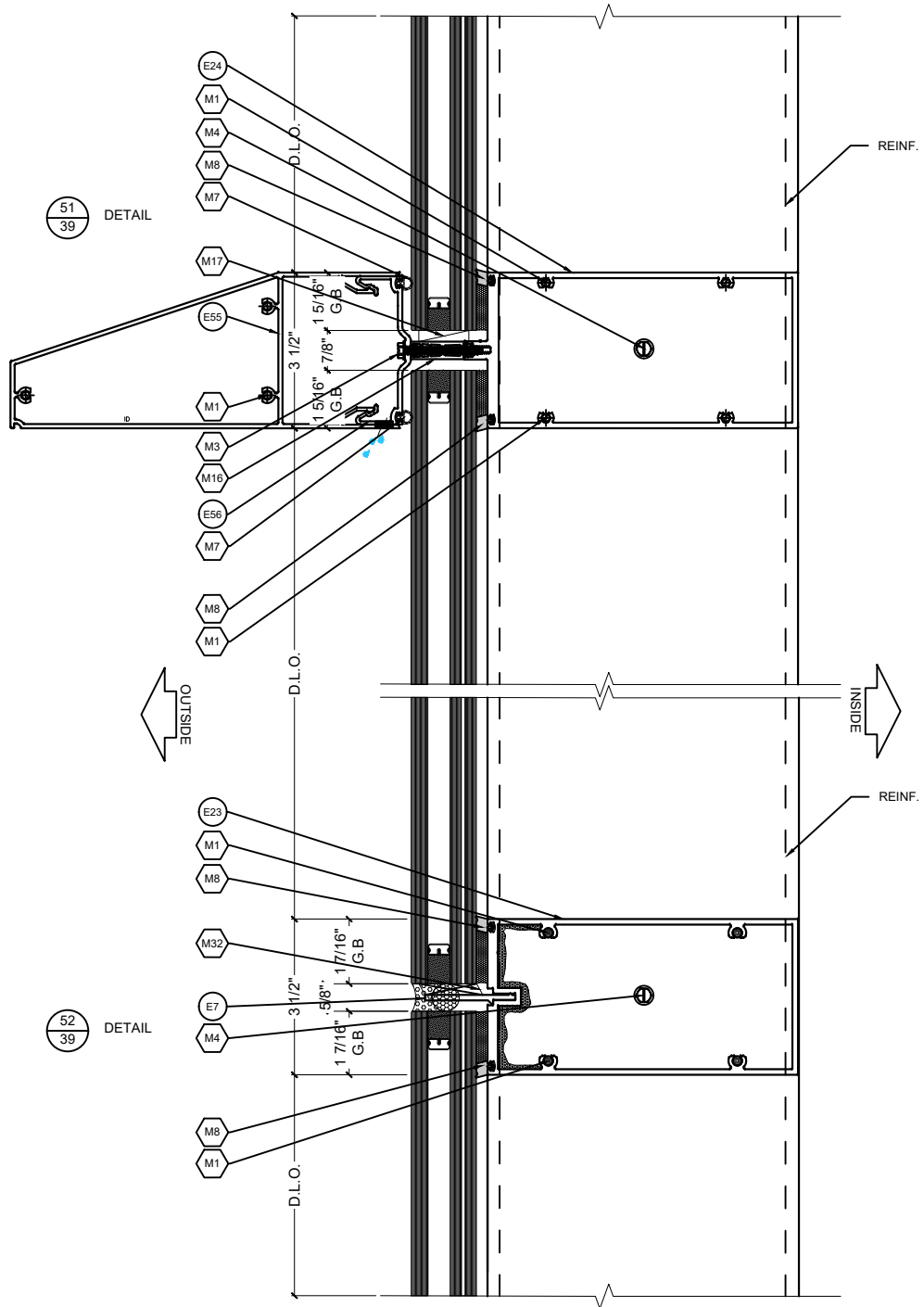
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FL. REG. # 94078

PREPARED BY AC	DRAFTED BY SV	DATE 12/15/2023
DWG NUMBER DT-PA-ESW-001	SCALE 3"=1'-0"	
PAGE 38 OF 47		

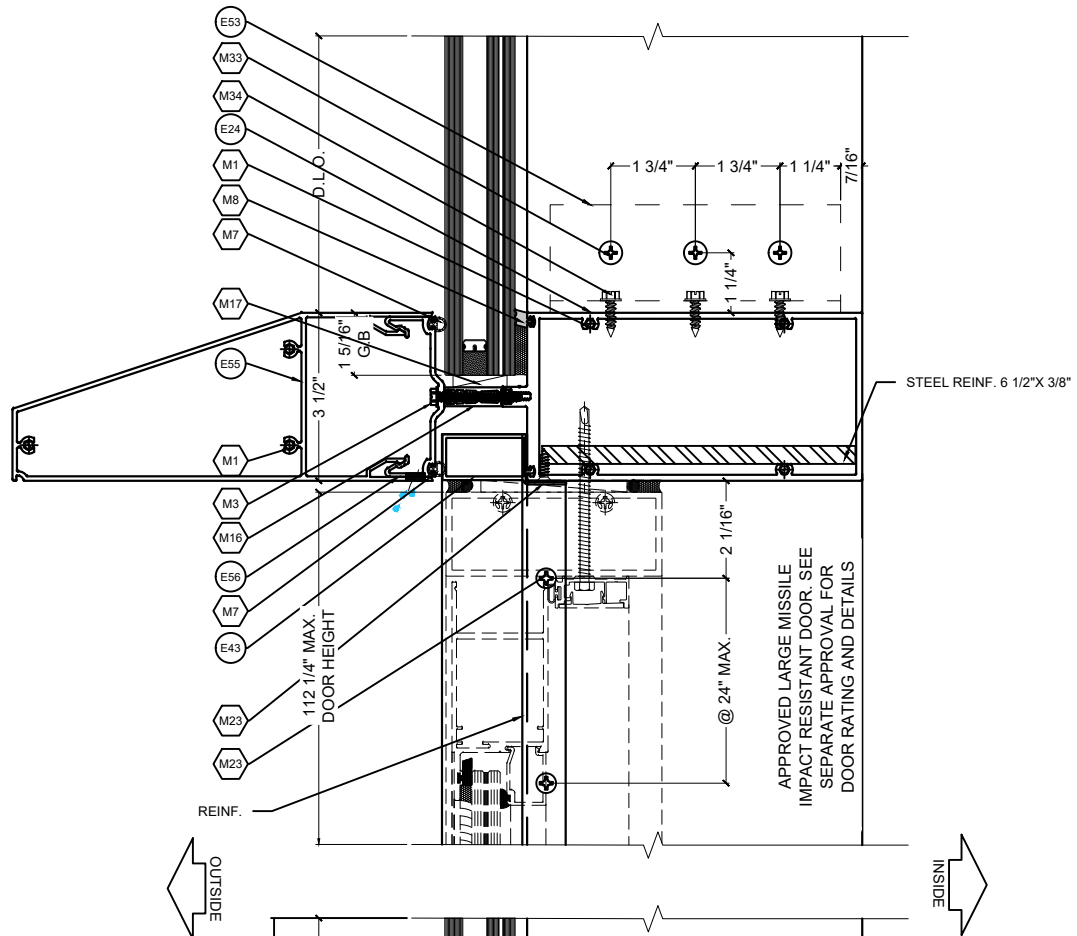


8860i SSG GLASS
DETAILS

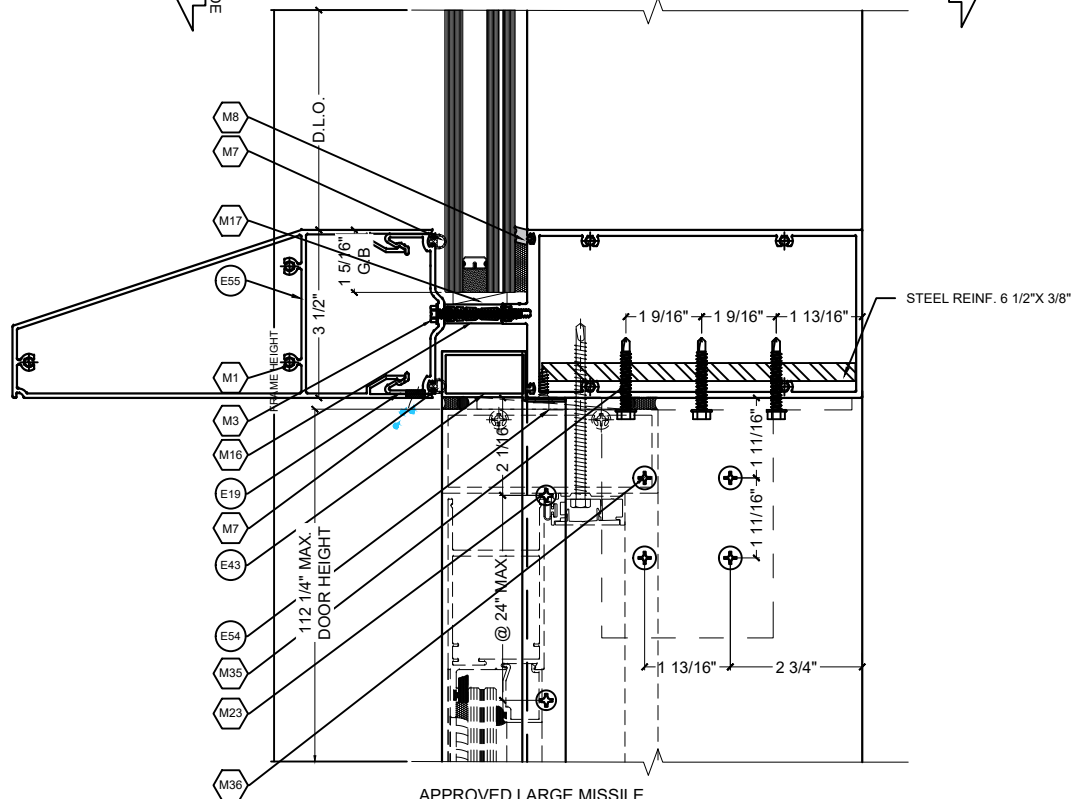
HORIZONTAL SPAN (IN)	GLASS HEIGHT (IN)	LOAD CAPACITY (PSF)
81	90 3/8	65



53
39 DETAIL



54
39 DETAIL



APPROVED LARGE MISSILE
IMPACT RESISTANT DOOR. SEE
SEPARATE APPROVAL FOR
DOOR RATING AND DETAILS

HORIZONTAL SPAN (IN)	GLASS HEIGHT (IN)	LOAD CAPACITY (PSF)
120	45 1/3	65

8860i SSG GLASS DETAILS

E.S.
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PROJECT
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LARGE MISSILE IMPACT

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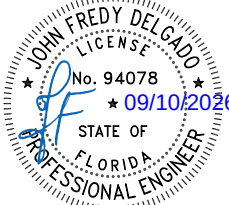
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3550 N.W. 49 STREET
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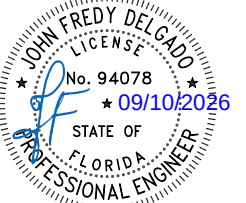
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No. Date: Revision:

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DWG NUMBER DT-PA-ESW-001		SCALE 3"=1'-0"
PAGE 39.1 OF 47		

8860i WINDOW WALL				
ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL
E1	ES-8860-007A	AS REQD.	FRAME HEAD AND SILL	6063-T6
E2	ES-8860-008	AS REQD.	SSG MALE MULLION	6005-T5
E3	ES-8860-009	AS REQD.	FEMALE MULLION SSG	6005-T5
E4	ES-8860-010	AS REQD.	FEMALE MULLION CAPTURED	6005-T5
E5	ES-8860-045	AS REQD.	PRESSURE PLATE ADAPTER (HEAD /SILL)	6063-T6
E6	ES-8860-044	AS REQD.	PRESSURE PLATE	6063-T6
E7	GW-5250-206	AS REQD.	STRUCTURAL GLAZING SHELF	6063-T6
E8	ES-8860-047	AS REQD.	POCKET FILLER	6063-T5
E9	ES-8860-015	AS REQD.	SLAB COVER ANCHOR	6063-T6
E10	ES-8860-029	AS REQD.	PRESSURE PLATE COVER	6063-T6
E11	ES-8860-030	AS REQD.	PRESSURE PLATE	6063-T6
E12	TG-T-215	AS REQD.	FILLER TUBE	6063-T6
E13	ES-8860-001	AS REQD.	MULLION /CAPTURED SLAB COVER	6063-T6
E14	ES-8860-002	AS REQD.	MULLION SSG SLAB COVER	6063-T6
E15	ES-8860-003	AS REQD.	MULLION SSG SLAB COVER	6063-T6
E16	ES-8860-004	AS REQD.	JAMB SLAB COVER	6063-T6
E17	ES-8860-005	AS REQD.	HEAD SLAB COVER	6063-T6
E18	ES-8860-006	AS REQD.	SILL SLAB COVER	6063-T6
E19	ES-8860-024	AS REQD.	SSG MULLION SLAB COVER	6063-T5
E20	ES-7004	AS REQD.	ANCHOR	6005-T5
E21	ES-7003A	AS REQD.	SNAP COVER	6063-T5
E22	ES-8860-046	AS REQD.	SETTING CHAIR	6063-T6
E23	GW-7000-129	AS REQD.	HORIZONTAL INTERMEDIATE SSG	6063-T6
E24	ES-8860-022	AS REQD.	HORIZONTAL INTERMEDIATE	6063-T6
E25	ES-8860-043	AS REQD.	PRESSURE PLATE COVER	6063-T6
E26	ES-8860-056	AS REQD.	CORNER 90°	6005-T5
E27	ES-8860-052	AS REQD.	CORNER 90°	6005-T5
E28	ES-8860-054	AS REQD.	CORNER 90°	6005-T5
E29	ES-8860-051	AS REQD.	CORNER 90°	6063-T6
E30	ES-8860-053	AS REQD.	CORNER 90°	6063-T6
E31	ES-8860-055	AS REQD.	CORNER 90°	6063-T6
E32	ES-8860-452	AS REQD.	CORNER 124°	6063-T6
E33	ES-8860-451	AS REQD.	CORNER 124°	6063-T6
E34	ES-8860-450	AS REQD.	CORNER 124°	6063-T6
E35	ES-8860-464	AS REQD.	CORNER 124°	6063-T6
E36	ES-8860-456	AS REQD.	CORNER 56°	6063-T6
E37	ES-8860-454	AS REQD.	CORNER 56°	6063-T6
E38	ES-8860-453	AS REQD.	CORNER 56°	6063-T6
E39	ES-8860-455	AS REQD.	CORNER 56°	6063-T6
E40	ES-8860-465	AS REQD.	CORNER 56°	6063-T6
E41	ES-8860-458	AS REQD.	CORNER 56°	6063-T6
E42	ES-8860-457	AS REQD.	CORNER 56°	6063-T6
E43	ES-8860-442	AS REQD.	VERTICAL FILLER	6005-T5
E44	ES-WW8832-101	AS REQD.	MULLION	6005-T5
E45	ES-8860-445	AS REQD.	GLASS SEAL SSG 135°	6005-T5
E46	HP3060-059	AS REQD.	CONER CLIP	6063-T6
E47	ES-8860-417	AS REQD.	CONER OUT SSG 135°	6005-T5
E48	ES-8860-406	AS REQD.	CONER OUT BACK 90° SSG	6005-T5
E49	ES-8860-408	AS REQD.	CONER OUT FRONT 90° SSG	6005-T5
E50	ES-8860-440	AS REQD.	GLASS SEAL CORNER 90° SSG INC	6005-T5
E51	ES-8860-441	AS REQD.	HORIZONTAL FILLER	6005-T5

SEALANTS:

ALL FRAME CORNERS, MECHANICAL JOINTS AND MULLION SEAMS SEALED WITH SILICONE SEALANT.

BILL OF MATERIALS TABLE

SYMBOLS	
DETAIL	DESCRIPTION
M1	LEADER FOR INSTALLATION MISCELLANEOUS
M01	LEADER FOR ASSEMBLY MISCELLANEOUS
E01	LEADER FOR EXTRUSIONS

E.S.
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PROJECT

ES-8860i ALUMINUM
WINDOW WALL SYSTEM
LARGE MISILE IMPACT

FL #44674.1

DRAWING REVISION LOG		
No.	Date:	Revision:

ENGINEER:

**DEERFIELD
TECHNICAL INC.**
CA# 36112

111 NORTH ORANGE AVE.
SUITE 800
ORLANDO, FL 32801

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JOHN FREDY DELGADO
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No. 94078
09/10/2026
STATE OF
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PROFESSIONAL ENGINEER

JOHN DELGADO, P.E.
FL. REG. # 94078

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DWG NUMBER DT-PA-ESW-001	SCALE N.T.S.	
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8860i WINDOW WALL				
ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL
E52	ES-WW8832-105	AS REQD.	SETTING CHAIR	6005-T5
E53	ALU-U-3X2.25X0.25	AS REQD.	ALUMINUM CHANNEL	6061-T6
E54	ALU-A-5X3X0.25	AS REQD.	ALUMINUM ANGLE	6061-T6
E55	ES-8860-443	AS REQD.	CAP BULLNOSE	6005-T5
E56	ES-8860-444	AS REQD.	PRESSURE PLATE	6005-T5
E57	103-047	AS REQD.	PANEL SUPPORT	6005-T5
E58	ALU-P-020	AS REQD.	SILL LEVELER	6063-T6
M1	#12 x 1 1/2" P.H.S.M.S	AS REQD.	FOR ASSEMBLY FRAME	STAINLESS STEEL
M2	#10 x 5/8" H.W.H	AS REQD.	FOR HORIZONTAL PRESSURE PLATE	STAINLESS STEEL
M3	#10 x 1 3/4" H.W.H	AS REQD.	FOR VERTICAL PRESSURE PLATE	STAINLESS STEEL
M4	#12 X 1" PH SELF DRILLING	AS REQD.	FOR REINFORCEMENT	STAINLESS STEEL
M5	#10 X 1" PHIL FLAT SELF DRILLER 18-8SS	AS REQD.	FOR SLAB COVER	STAINLESS STEEL
M6	#12 x 1/2" P.H.S.M.S	AS REQD.	FOR FILLER TUBE	STAINLESS STEEL
M7	WW7000-NE003	AS REQD.	SILICONE GASKET 0.25 PUSH IN	SILICONE
M8	W5250-NS02	AS REQD.	INTERIOR GASKET	SILICONE
M9	ES-W625-G03A	AS REQD.	EXTERIOR GASKET FOR CAPTURED VERTICAL MULLION	SILICONE
M10	80-339A	AS REQD.	SETTING BLOCK	SILICONE
M11	ES-8860-G02	AS REQD.	INTERIOR GASKET	SILICONE
M12	BACKER ROD 3/8"	AS REQD.	BACKER ROD @HORIZONTAL	OPEN CELL POLIETHYLENE FOAM
M13	REINFORCEMENT FOR VERTICAL MULLION	AS REQD.	REINFORCEMENT FOR VERTICAL MULLION OF 1/2" X 6 1/2"	STEEL
M14	BACKER ROD 7/8"	AS REQD.	BACKER ROD @HORIZONTAL	OPEN CELL POLIETHYLENE FOAM
M15	DS-983	AS REQD.	INNER WATER STRIPING	SILICONE
M16	W5250-302	AS REQD.	SPACER	POLYAMIDE
M17	ES-7530-B02A	AS REQD.	SETTING BLOCK	SILICONE
M18	ES-7000-067	AS REQD.	CLIP	6063-T5
M19	W5250-NE01	AS REQD.	INTERIOR GASKET	SILICONE
M20	TOR #10-24 X 1/2 P.H.S.M.S	AS REQD.	FOR ASSEMBLY FRAME	STAINLESS STEEL
M21	REINFORCEMENT FOR VERTICAL MULLION	AS REQD.	REINFORCEMENT FOR VERTICAL MULLION OF 1/2" X 10"	STEEL
M22	REINFORCEMENT FOR VERTICAL MULLION	AS REQD.	REINFORCEMENT FOR VERTICAL MULLION OF 1/2" X 5"	STEEL
M23	#12 x 3/4" F.H.S.M.S	AS REQD.	FOR ALUMINUM FILLER	STAINLESS STEEL
M24	BACKER ROD 5/8"	AS REQD.	BACKER ROD @HORIZONTAL	OPEN CELL POLIETHYLENE FOAM
M25	REINFORCEMENT FOR VERTICAL MULLION	AS REQD.	REINFORCEMENT FOR CORNER MULLION 1/2" X6 3/4"	STEEL
M26	#10-24 x 1/2" PH	AS REQD.	FOR ASSEMBLY FRAME	STAINLESS STEEL
M27	V-003A	AS REQD.	MARINE GLAZING FOR GLASS 9/16" THK. & 5/8" THK. GLASS	SILICONE
M28	#12x 3" F.H.S.M.S	AS REQD.	FOR ASSEMBLY SCREW	STAINLESS STEEL
M29	#12 x 3/4" P.H.S.M.S	AS REQD.	FOR ASSEMBLY SCREW	STAINLESS STEEL
M30	T-BOND V2210 5/16" X 5/16" X 25'	AS REQD.	DOUBLE FACE TAPE	POLYETHYLENE
M31	T-BOND V2210 1/14" X 1/4" X 50'	AS REQD.	DOUBLE FACE TAPE	POLYETHYLENE
M32	ES-7000-B01A	AS REQD.	SETTING BLOCK	SILICONE 85 + 5 SHORE A
M33	#12 x 1" F.H.S.M.S	AS REQD.	FOR ASSEMBLY SCREW	STAINLESS STEEL
M34	#12 x 3/4" H.H.S.M.S	AS REQD.	FOR ASSEMBLY SCREW	STAINLESS STEEL
M35	#12 x 1 1/2" H.H.S.M.S	AS REQD.	FOR ASSEMBLY SCREW	STAINLESS STEEL
M36	#12 x 1 1/2" F.H.S.M.S	AS REQD.	FOR ASSEMBLY SCREW	STAINLESS STEEL
M37	REINFORCEMENT FOR VERTICAL MULLION	AS REQD.	REINFORCEMENT FOR CORNER MULLION 1/2" X6 1/4"	STEEL
M38	METAL PANEL	AS REQD.	1/8" METAL PANEL	ALUMINUM
M39	#10 x 3/4" F.H. S.M.S @ 12" O.C.	AS REQD.	ASSEMBLY SCREW	STAINLESS STEEL
M40	REINFORCEMENT FOR VERTICAL JAMB	AS REQD.	REINFORCEMENT FOR JAMB 3/4" X6 3/8"	STEEL

SEALANTS:

ALL FRAME CORNERS, MECHANICAL JOINTS AND MULLION SEAMS SEALED WITH SILICONE SEALANT.

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PROJECT

ES-8860i ALUMINUM
WINDOW WALL SYSTEM
LARGE MISILE IMPACT

FL #44674.1

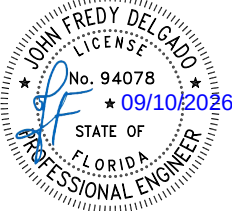
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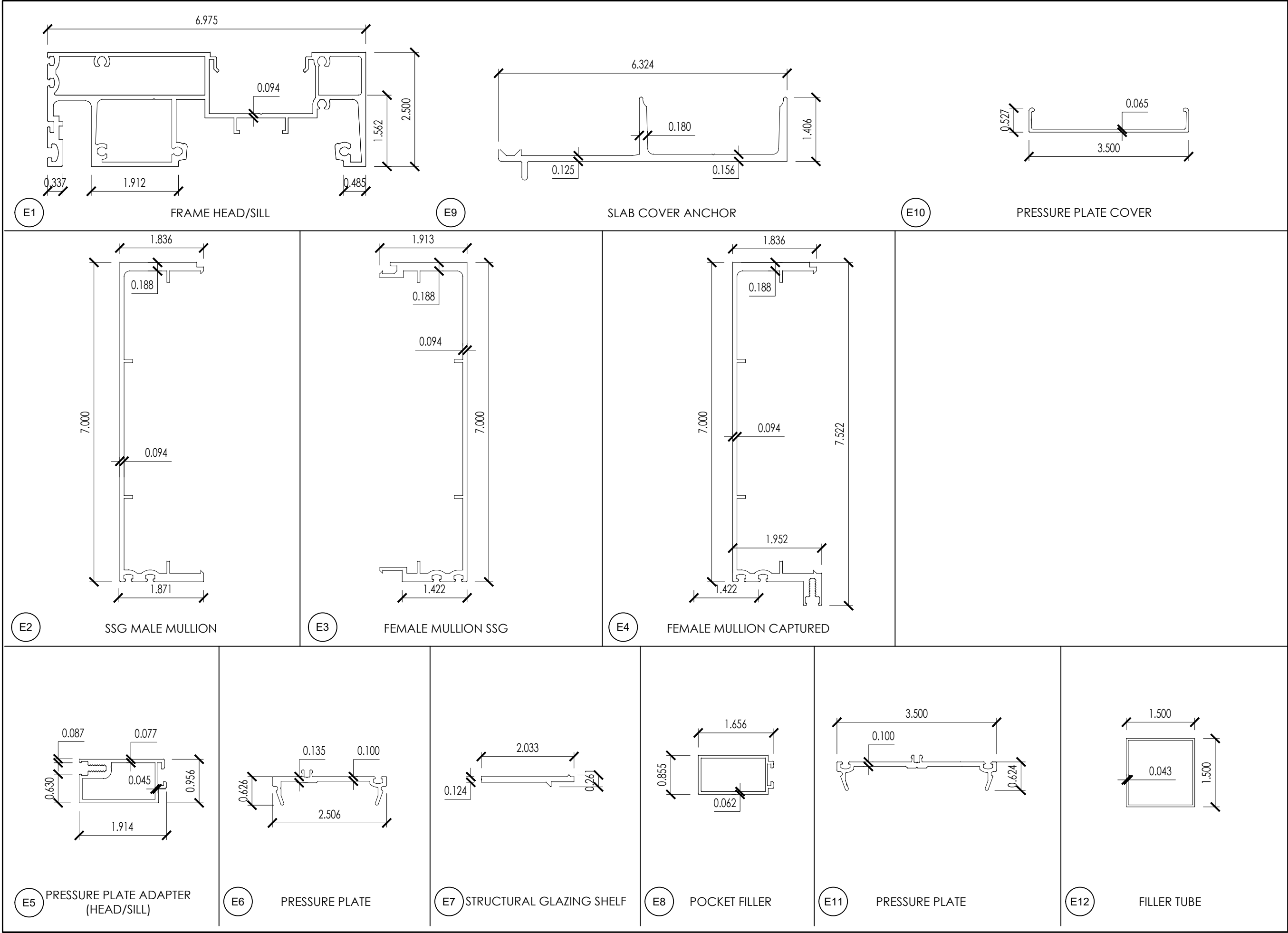
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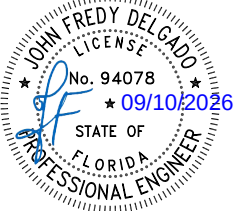
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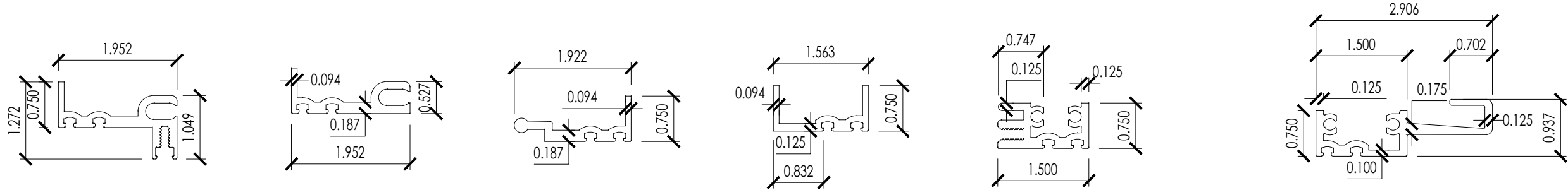
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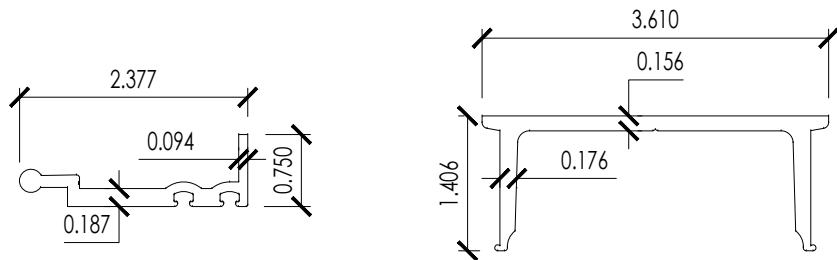


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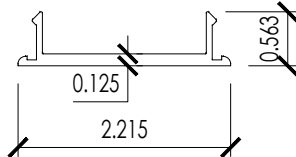
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DWG NUMBER DT-PA-ESW-001	SCALE 6"=1'-0"	
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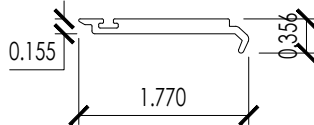
E13 MULLION CAPTURED SLAB COVER E14 MULLION SSG/ SLAB COVER E15 MULLION SSG/ SLAB COVER E16 JAMB SLAB COVER E17 HEAD SLAB COVER E18 SILL SLAB COVER



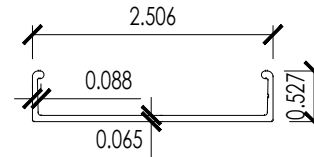
E19 SSG MULLION SLAB COVER E20 ANCHOR



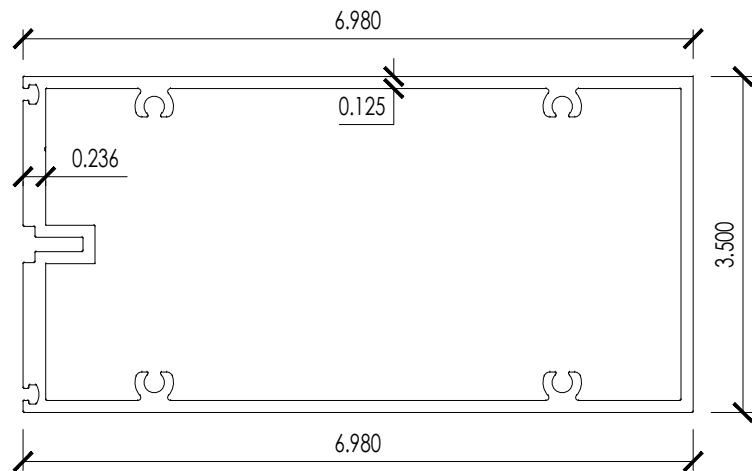
E21 SNAP COVER



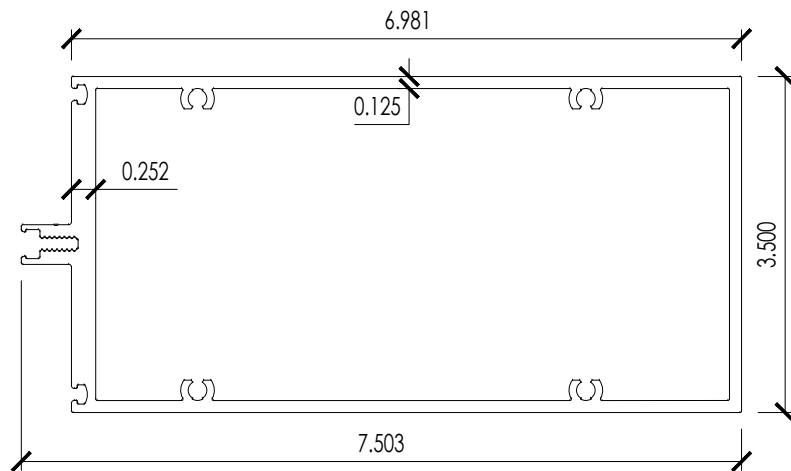
E22 SETTING CHAIR



E25 PRESSURE PLATE COVER



E23 HORIZONTAL INTERMEDIO SSG



E24 HORIZONTAL INTERMEDIO

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LARGE MISILE IMPACT

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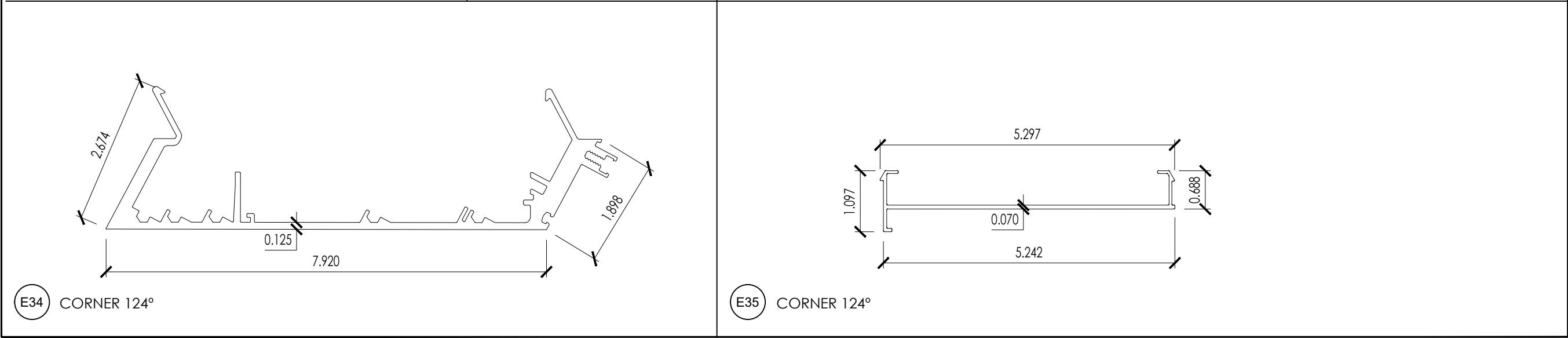
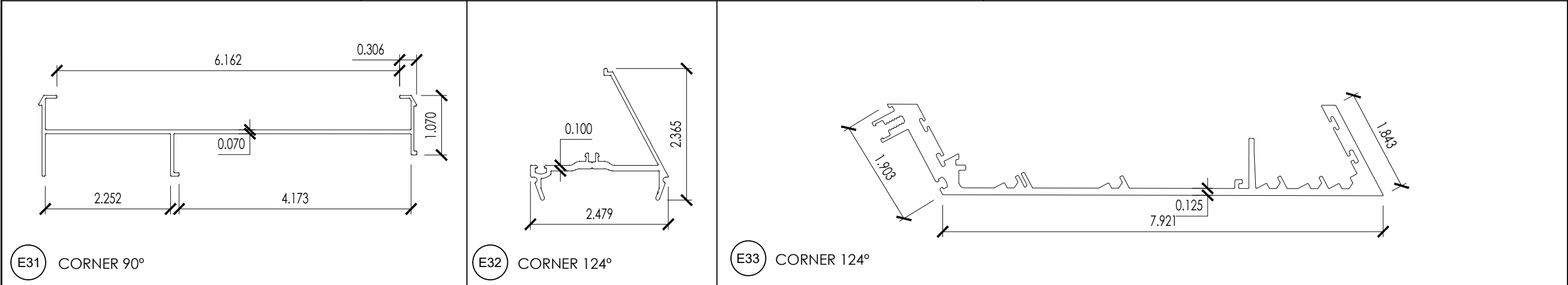
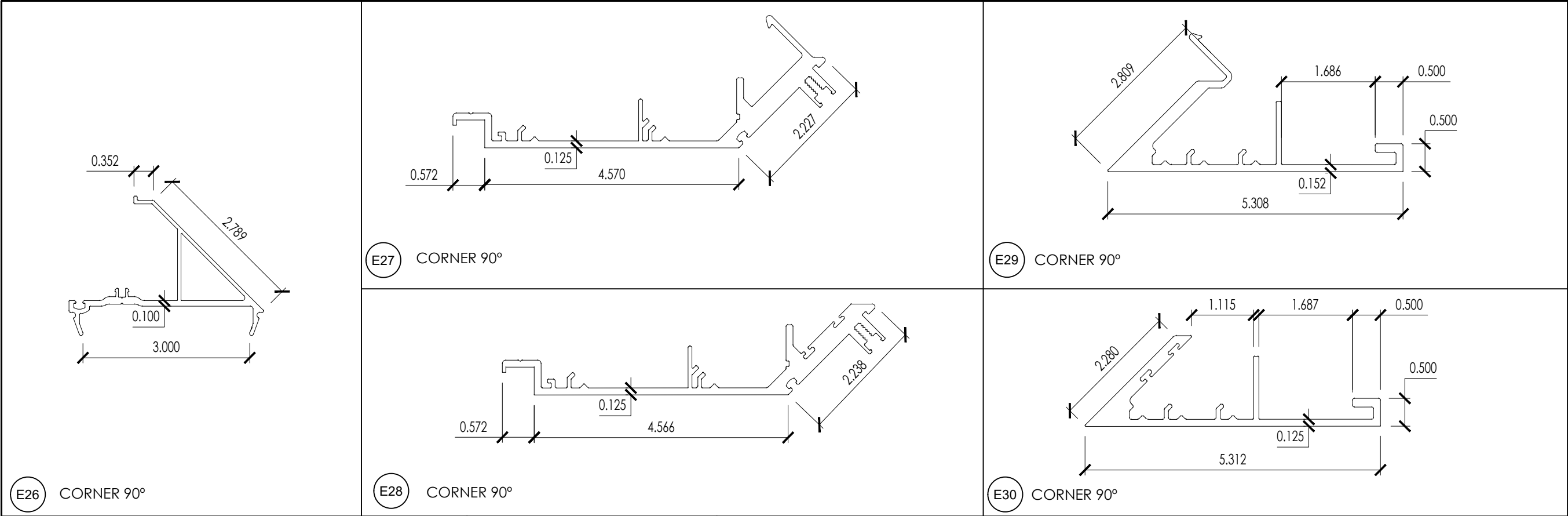
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CA# 36112

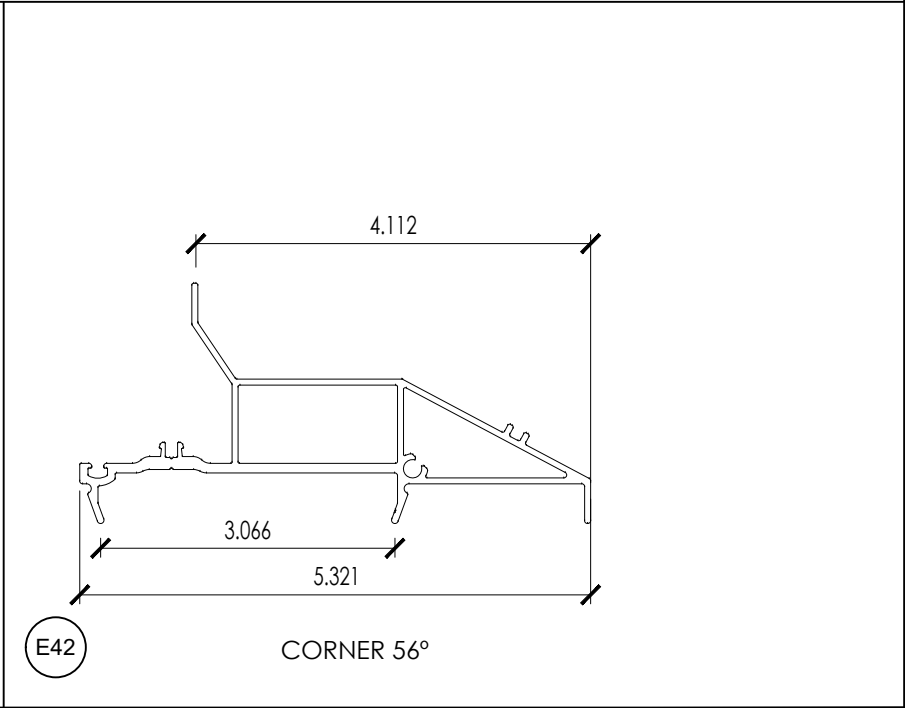
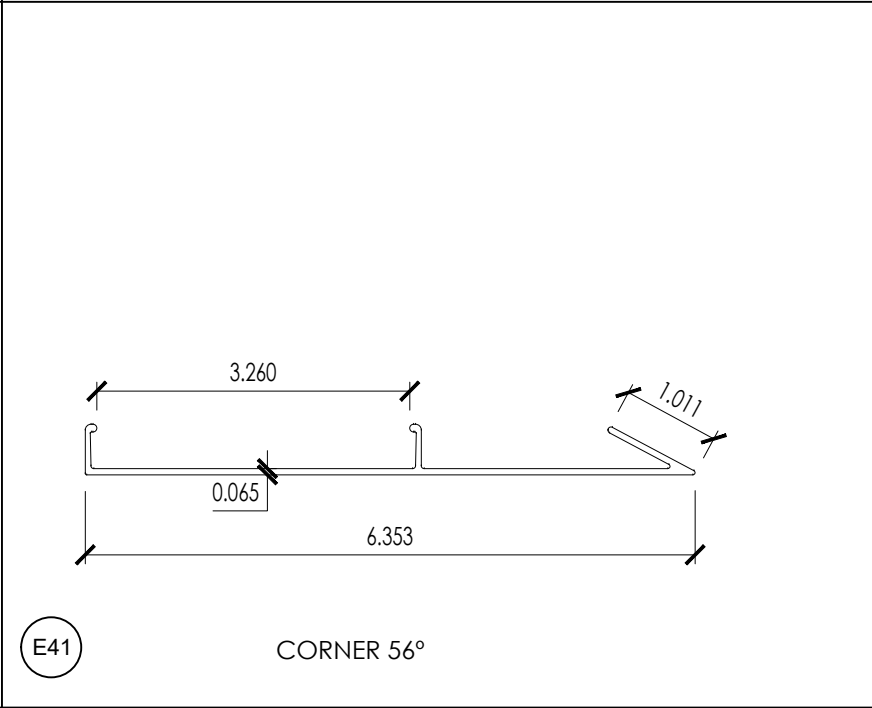
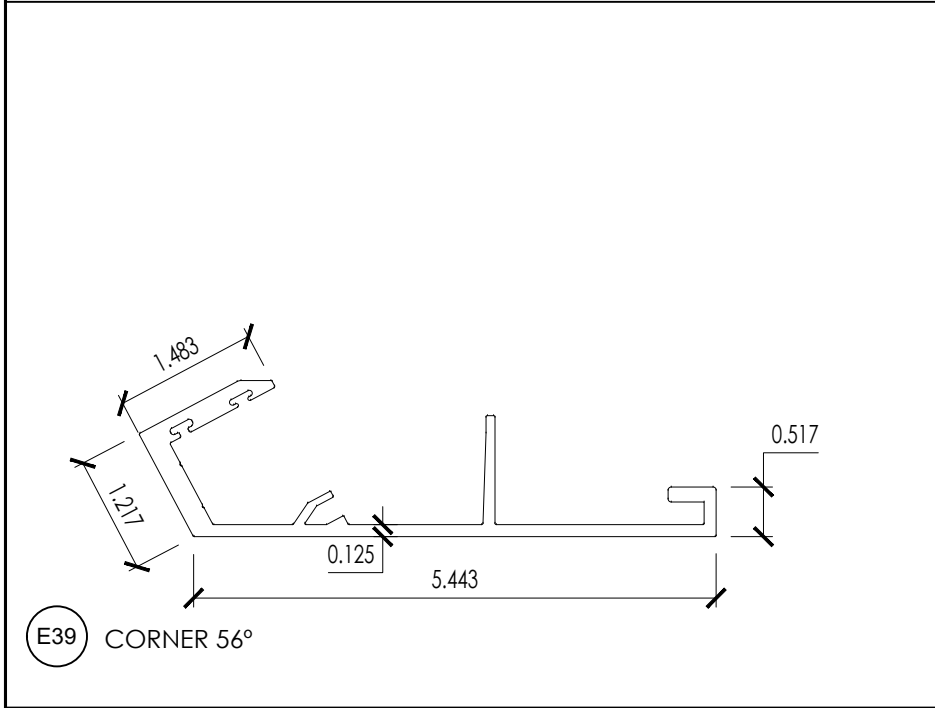
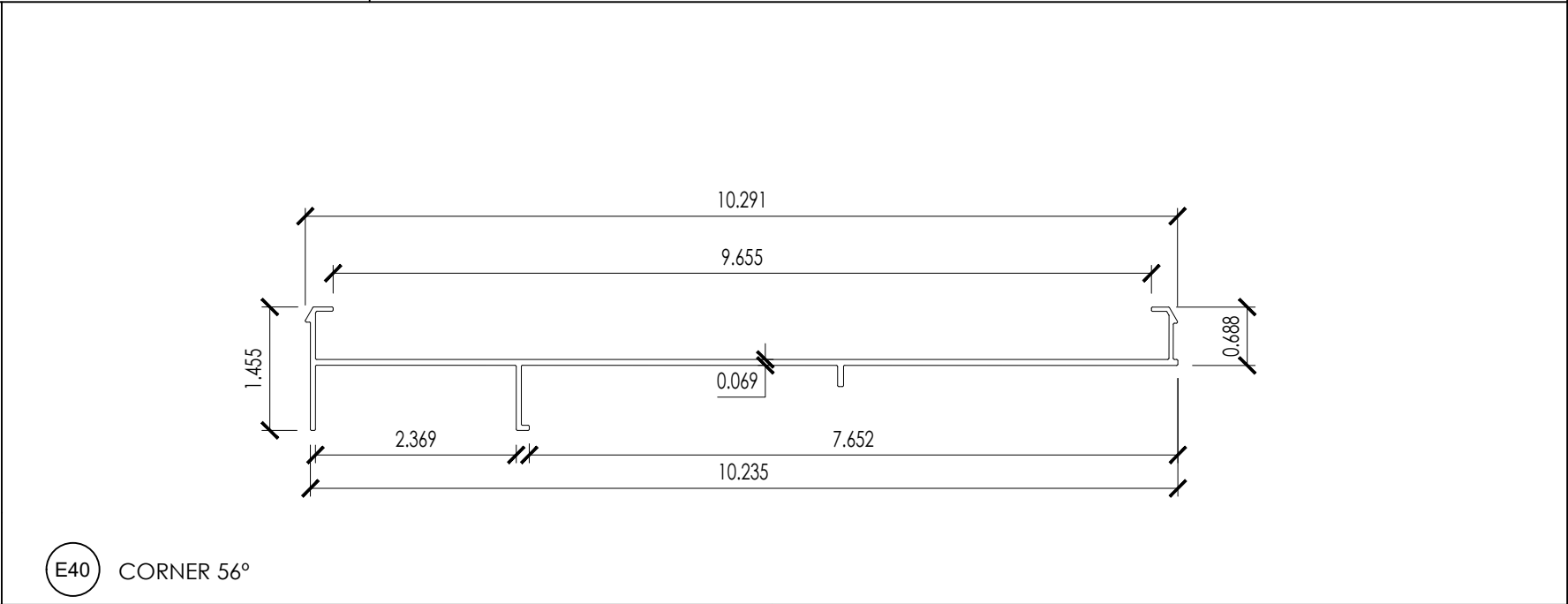
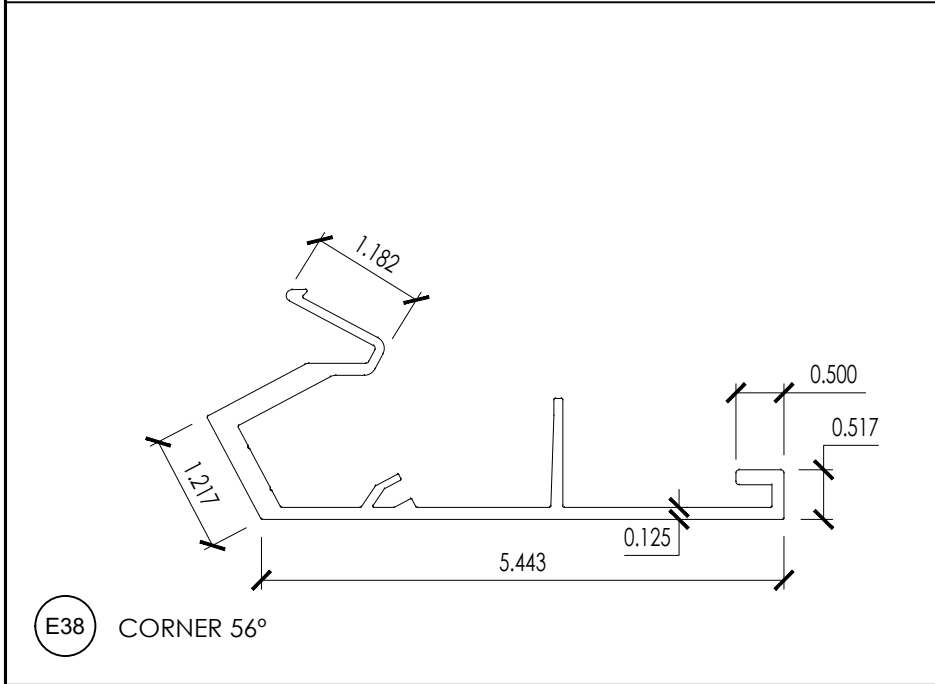
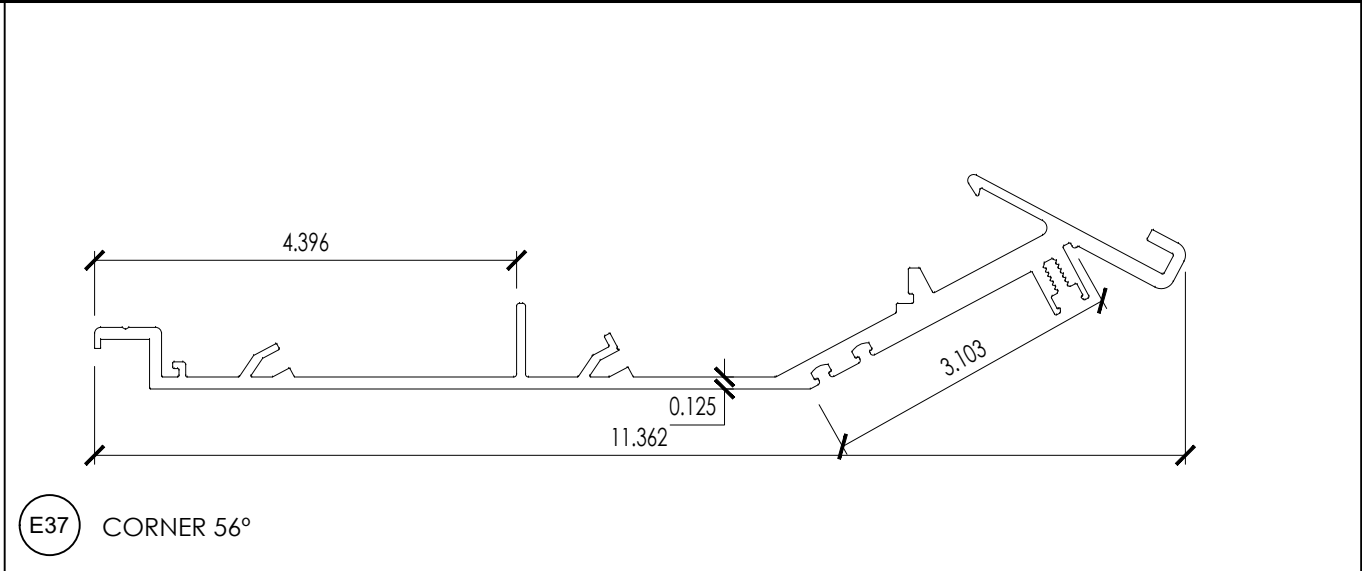
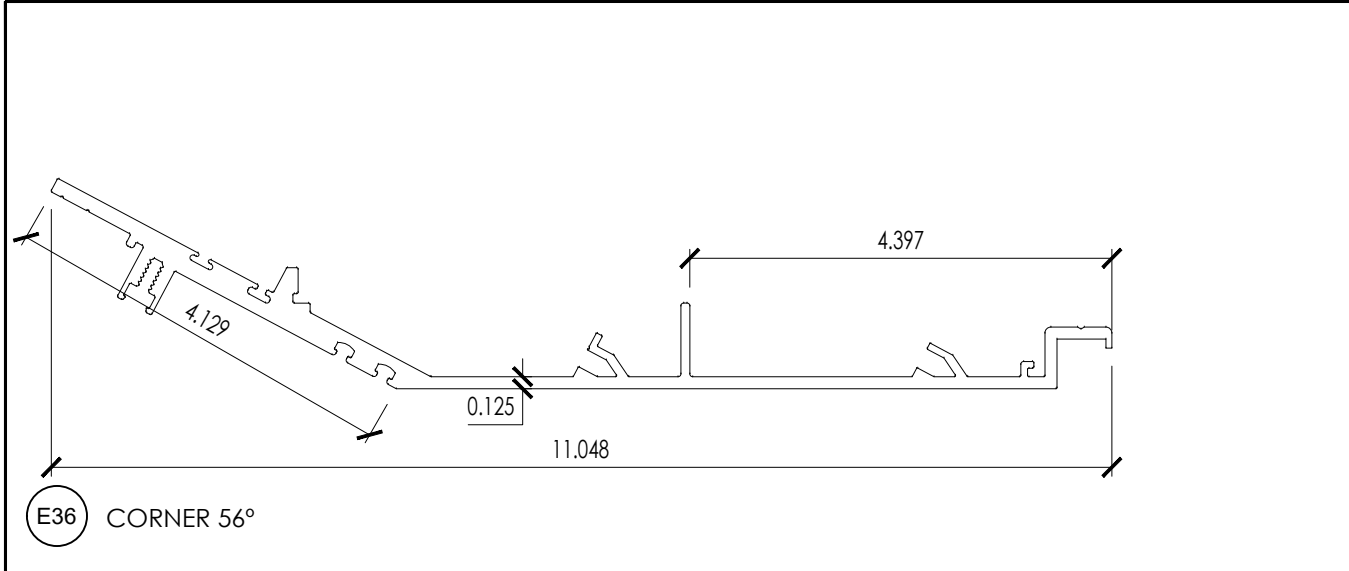
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DWG NUMBER	SCALE	
DT-PA-ESW-001	6"=1'-0"	
PAGE	44 OF 47	



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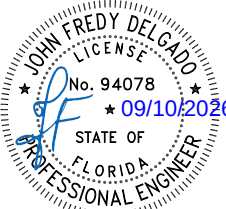
PROJECT
ES-8860i ALUMINUM
WINDOW WALL SYSTEM
LARGE MISILE IMPACT

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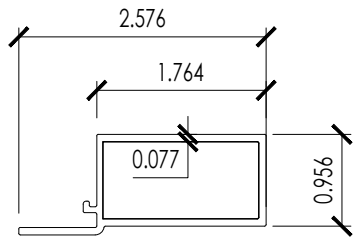
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CA# 36112
111 NORTH ORANGE AVE.
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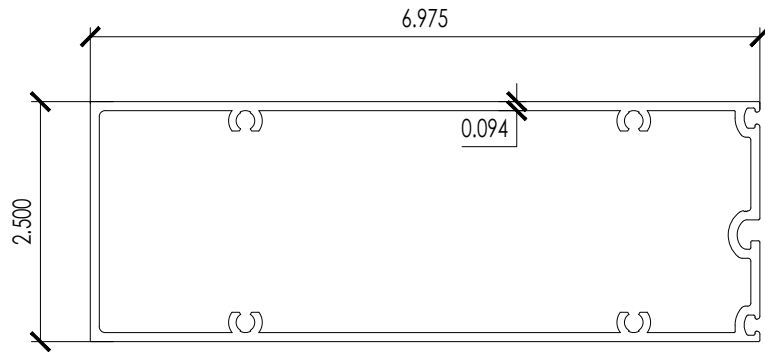


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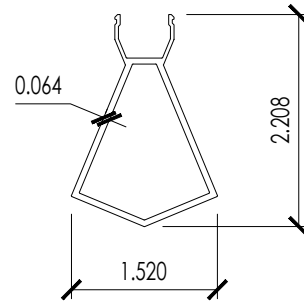
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DWG NUMBER DT-PA-ESW-001	SCALE 6"=1'-0"	
PAGE 45 OF 47		



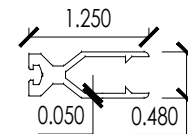
E43 VERTICAL FILLER



E44 MULLION



E45 GLASS SEAL SSG 135°



E46 CORNER CLIP

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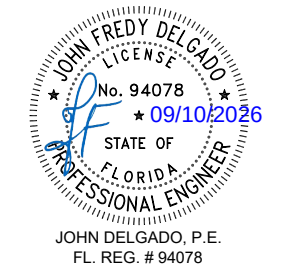
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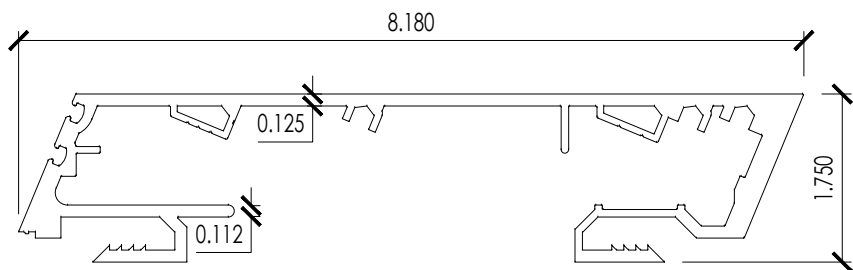
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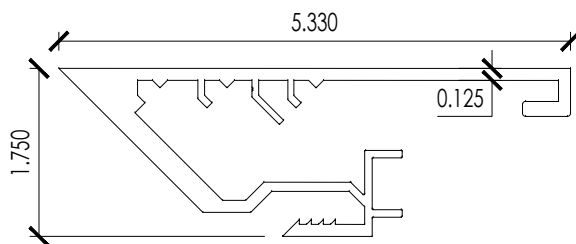
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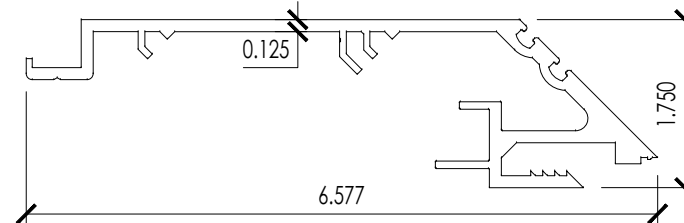
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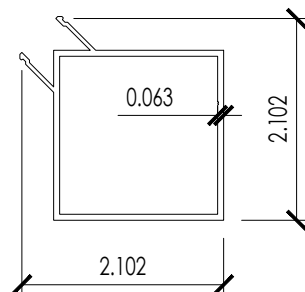
E47 CORNER OUT SSG 135°



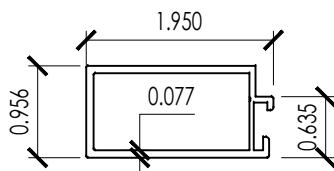
E48 CORNER OUT BACK 90° SSG



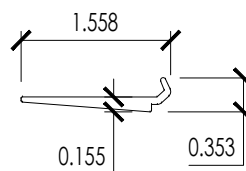
E49 CORNER OUT FRONT 90° SSG



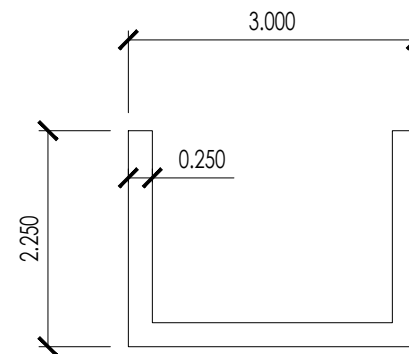
E50 GLASS SEAL CORNER 90° SSG INC



E51 HORIZONTAL FILLER

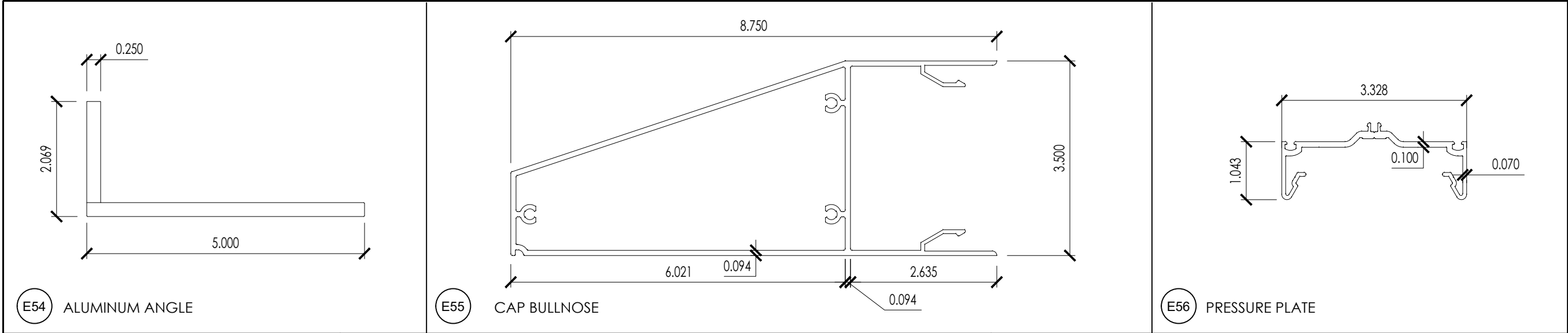


E52 SETTING CHAIR



E53 ALUMINUM CHANNEL

PREPARED BY AC	DRAFTED BY SV	DATE 12/15/2023
DWG NUMBER DT-PA-ESW-001	SCALE 6"=1'-0"	
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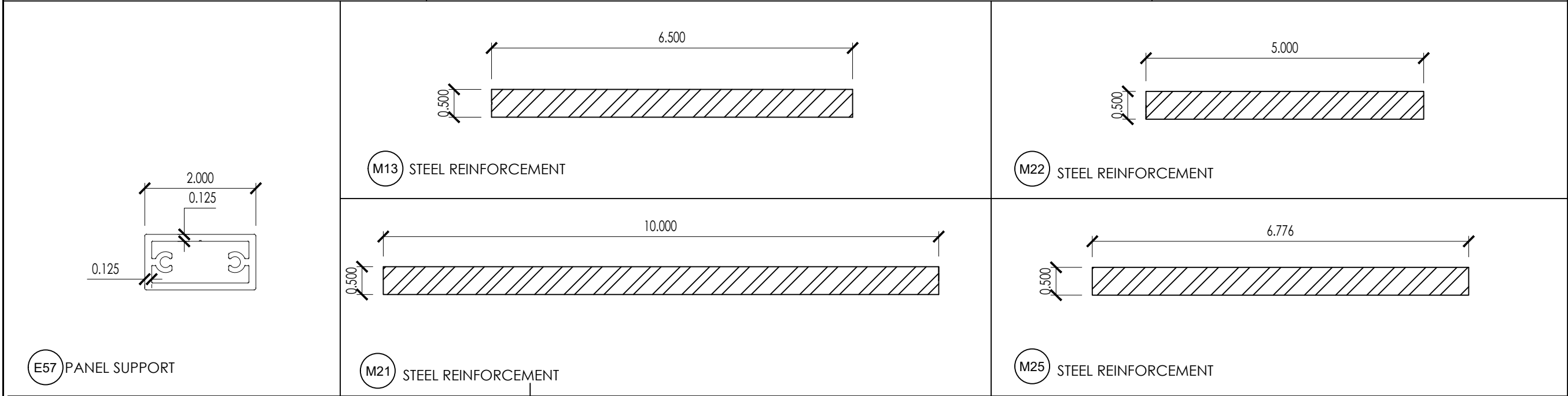


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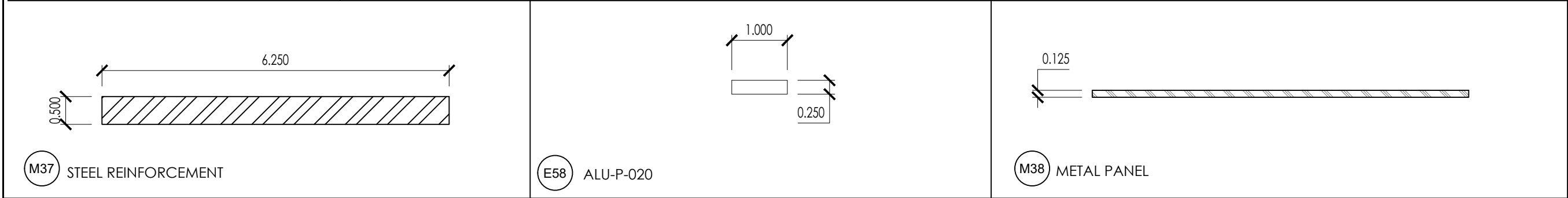
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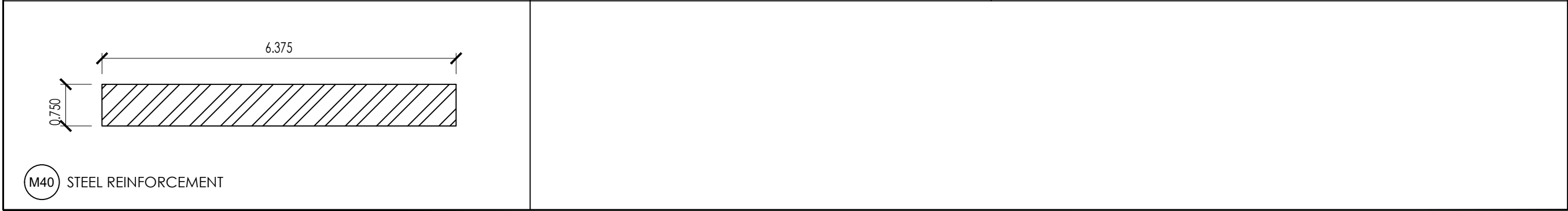
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DWG NUMBER	SCALE	
DT-PA-ESW-001	6"=1'-0"	
PAGE	47 OF 47	