

ES-WA9040

ALUMINUM WINDOW WALL SYSTEM

LARGE MISSILE IMPACT

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).

ANCHORS SHALL BE SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

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 2023 FLORIDA BLDG. CODE & ADOPTED STANDARD.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT. ie LIFE SAFETY OF THIS PRODUCT, ADEQUACY OR STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANT ETC. CONDITIONS NOT SHOWN IN THIS DOCUMENT ARE TO BE ANALYSED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

DESIGN LOADS SHOWN ARE BASED ON "ALLOWABLE STRESS DESIGN (ASD)".

MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE. LABELING TO COMPLY WITH SECTION 1709.9.2.

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 CHART AS FOLLOWS:

- STEP 1** DETERMINE DESIGN WIND PRESSURE REQUIREMENTS BASED ON WIND VELOCITY, BUILDING HEIGHT, WIND ZONE, USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** REFER TO SHEETS 2.0 FOR GLAZING ELEVATIONS
- STEP 3** REFER TO SHEETS 3.0 FOR SILICONE CAPACITIES
- STEP 4** REFER TO SHEETS 4.0 FOR GLASS CAPACITIES
- STEP 5** REFER TO SHEETS 5.0 FOR JAMBS / MULLIONS CAPACITIES
- STEP 6** REFER TO SHEETS 6.0 FOR ANCHORS CAPACITIES

THIS SYSTEM IS RATED FOR LARGE MISSILE IMPACT.
SHUTTERS ARE NOT REQUIRED.

- A- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.
- B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- C- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. ENGINEER OF RECORD.
- D- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

E.S.
WINDOWS, LLC

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

PROJECT
ES-WA9040
ALUMINUM WINDOW WALL
LARGE MISILE IMPACT

FLORIDA APPROVAL #
FL# 47332.1

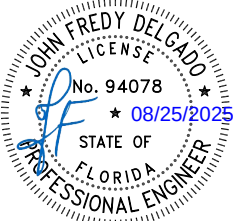
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GENERAL NOTES

DRAWING REVISION LOG		
No.	Date:	Revision:
R1	05/02/2025	UPDATE
R3	08/25/2025	UPDATE

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

PO BOX 1339
DEERFIELD BEACH, FL 33443

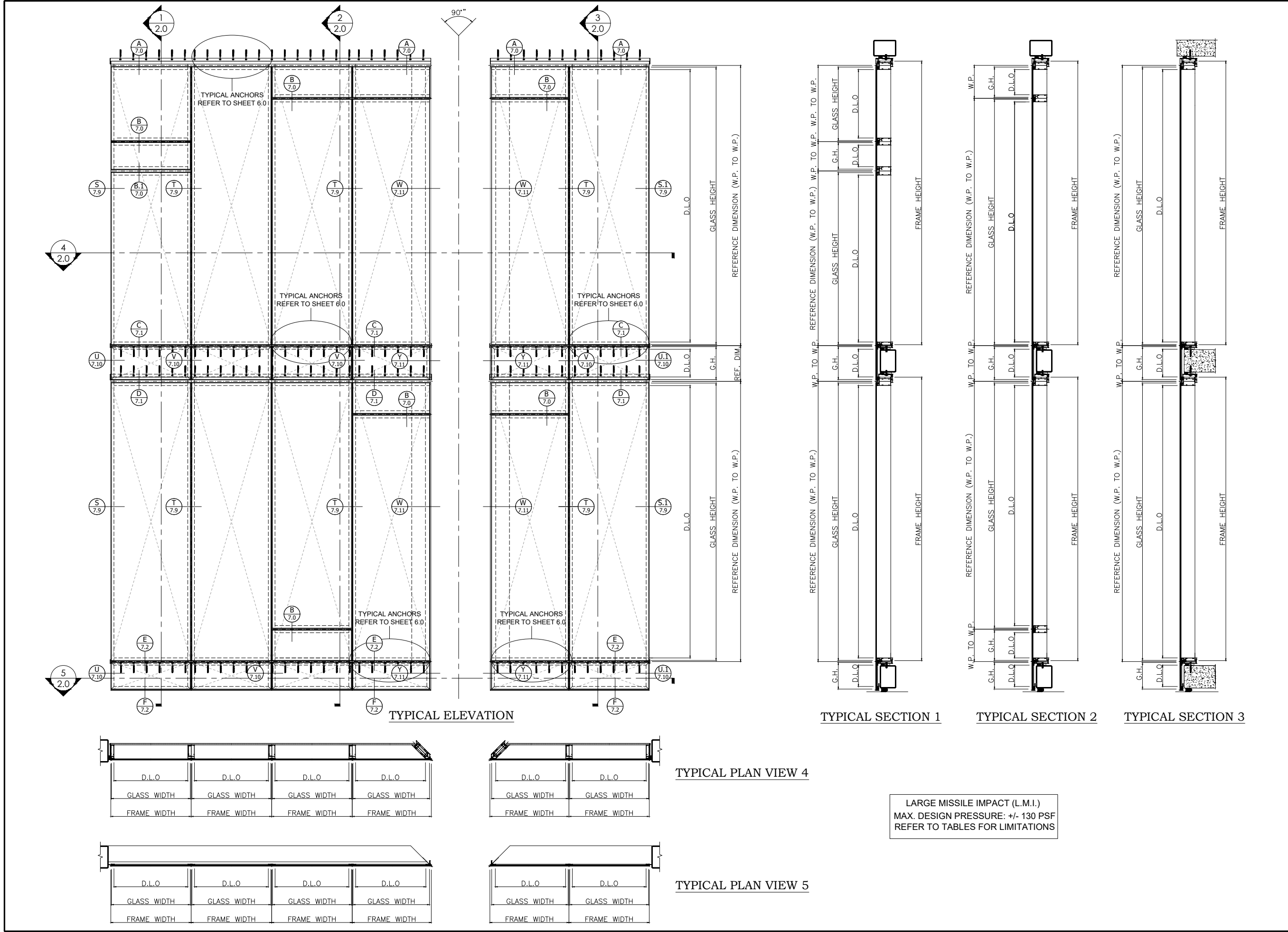
CHECKED FOR STRUCTURAL
COMPLIANCE ONLY. BY:



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

John Delgado
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 AC	DRAFTED BY SS & DF	DATE 05/02/2025
DWG NUMBER DT-PA-ESW-004	SCALE N.T.S.	
PAGE 1.0 OF 8.4		



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FL# 47332.1

SHEET NAME:
WINDOWS
ELEVATION

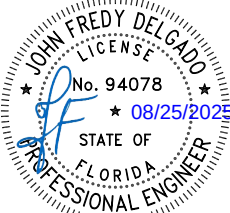
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PAGE 2.0 OF 8.4		

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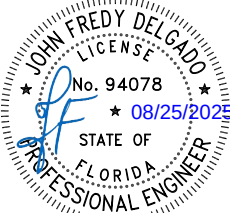
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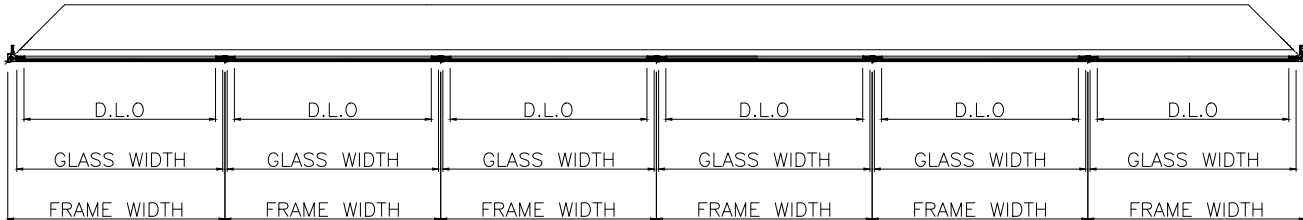
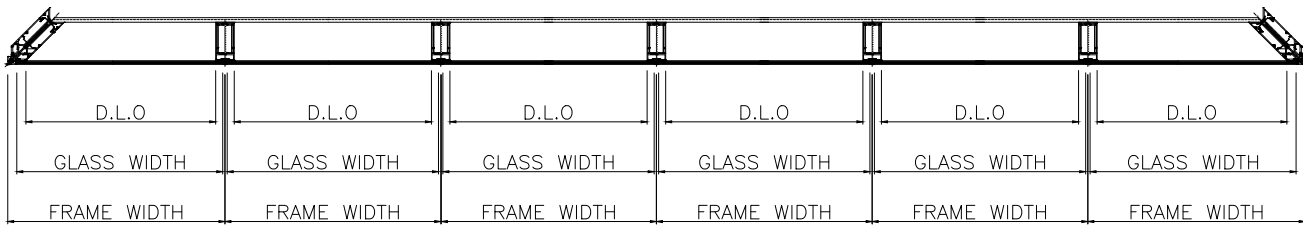
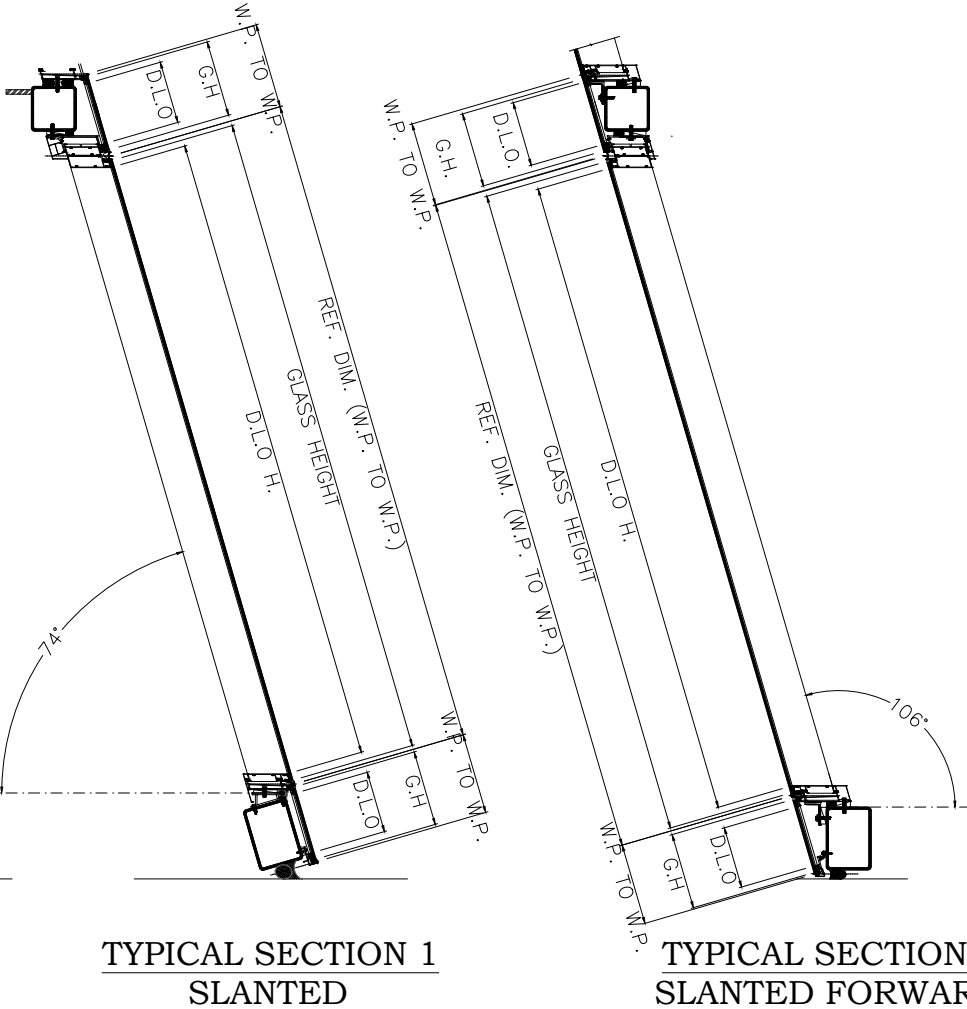
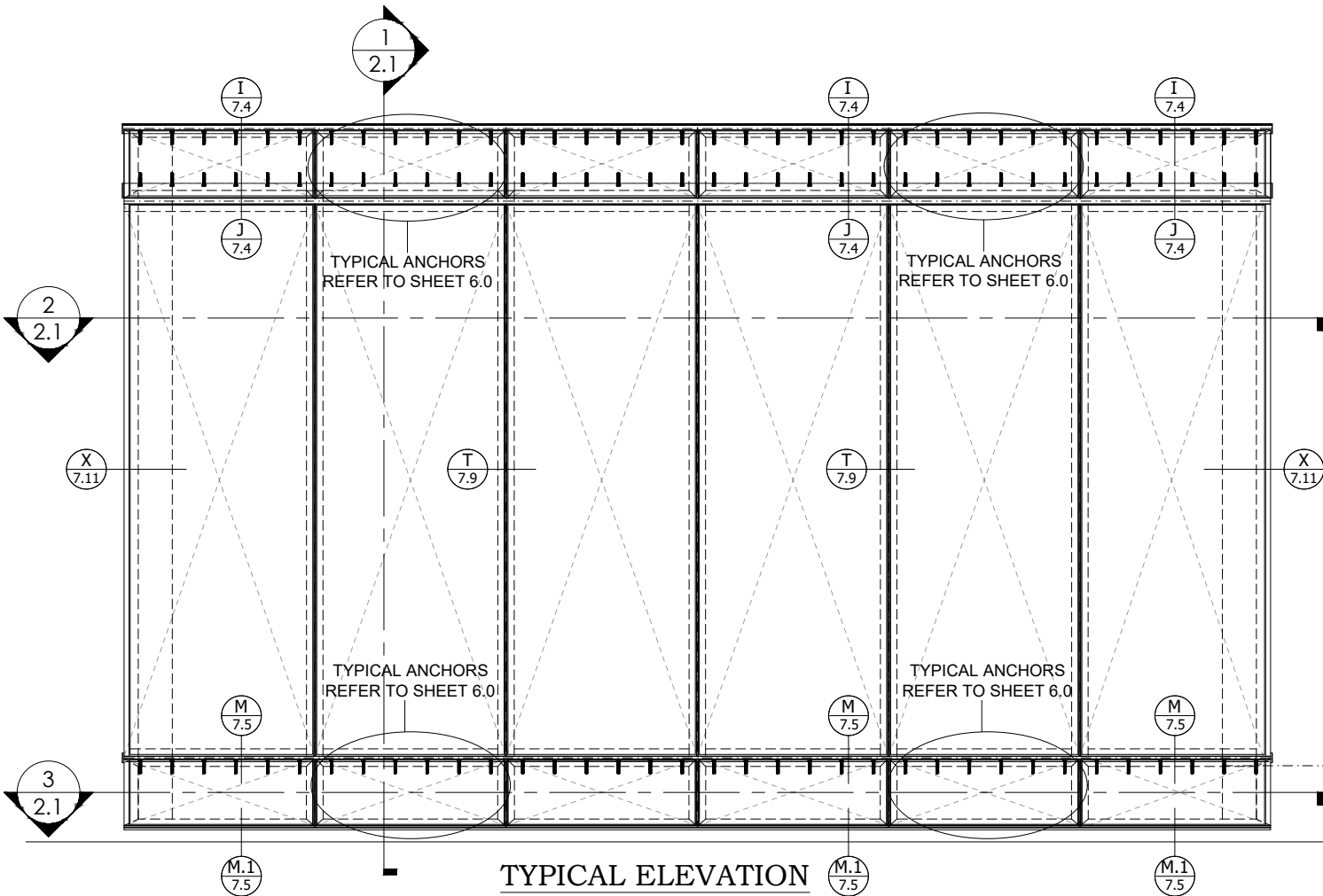
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PAGE 2.1 OF 8.4		



TYPICAL PLAN VIEW 2

TYPICAL PLAN VIEW 3

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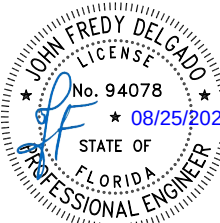
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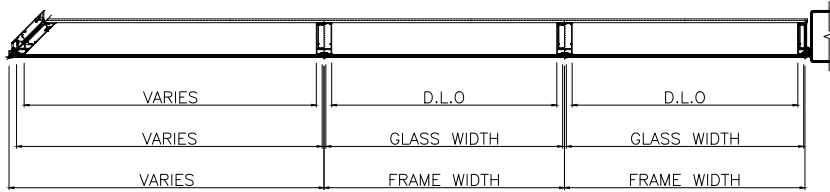
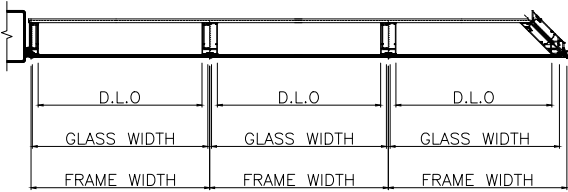
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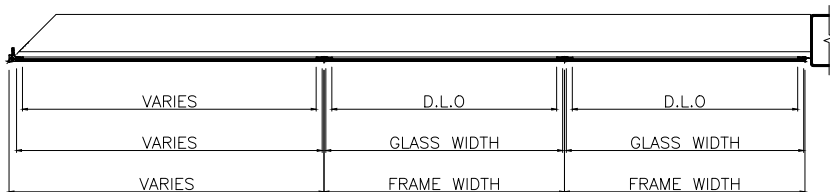
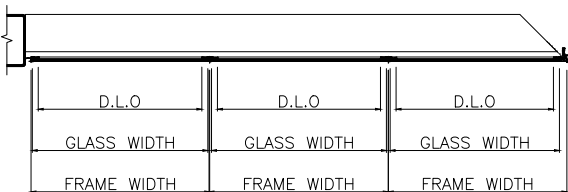


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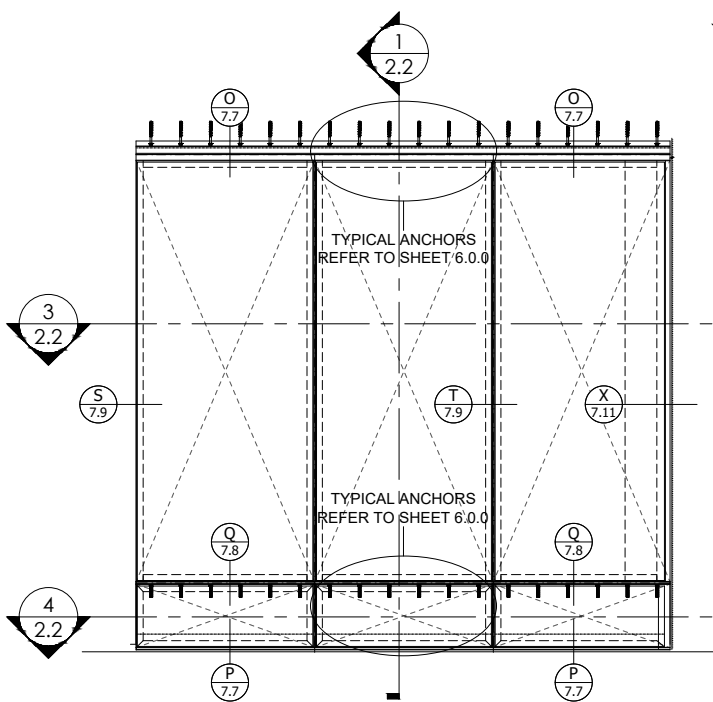
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PAGE 2.2 OF 8.4		



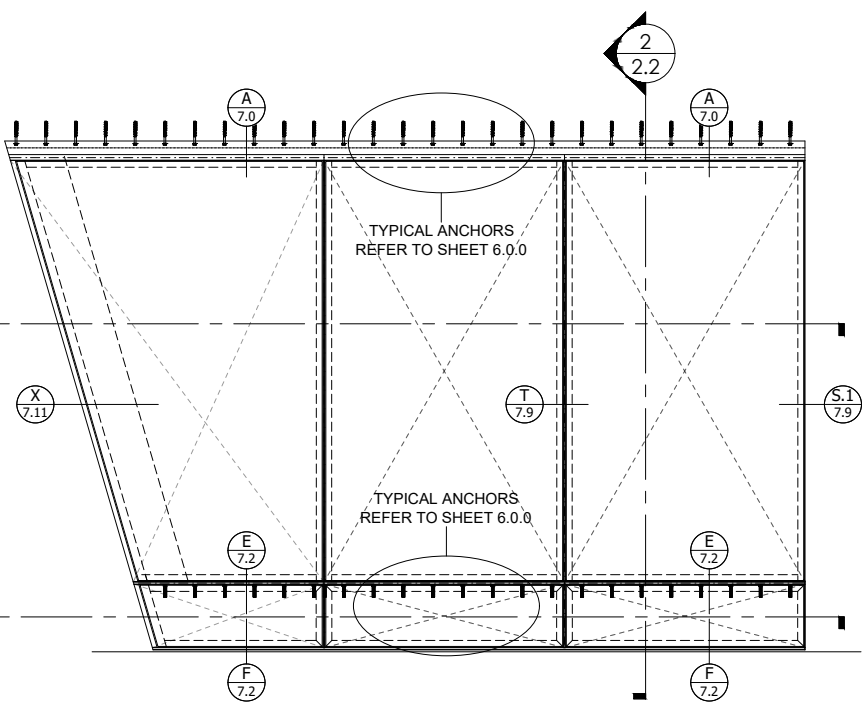
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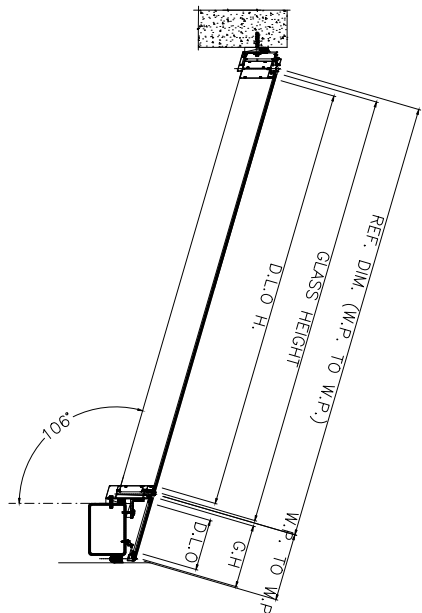
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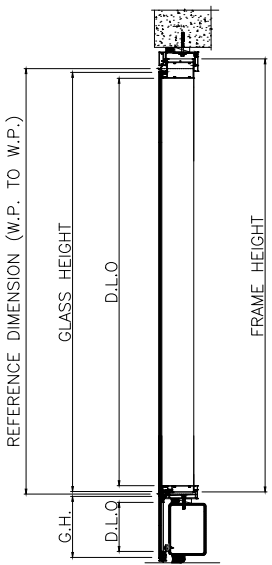
ELEVATION
SLANTED FORWARD



TYPICAL ELEVATION



SECTION 1
SLANTED FORWARD



TYPICAL SECTION 2

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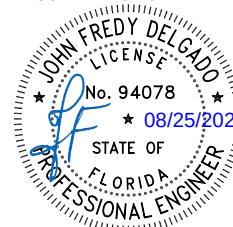
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ENGINEER:
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PAGE 2.3 OF 8.4		

TYPICAL PLAN VIEW 3

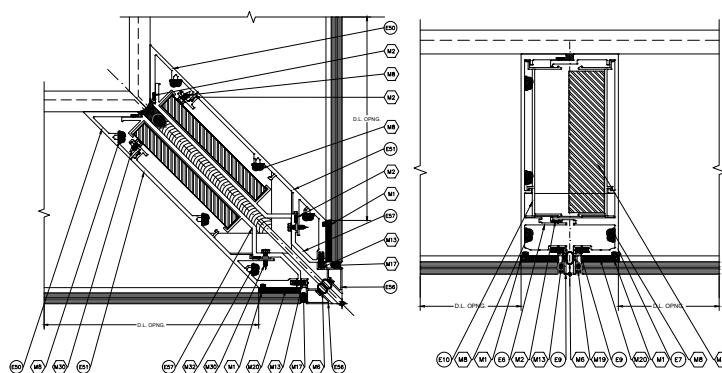
D.L.O.	D.L.O.	VARIES
GLASS WIDTH	GLASS WIDTH	VARIES
FRAME WIDTH	FRAME WIDTH	VARIES

TYPICAL PLAN VIEW 4

D.L.O.	D.L.O.	VARIES
GLASS WIDTH	GLASS WIDTH	VARIES
FRAME WIDTH	FRAME WIDTH	VARIES

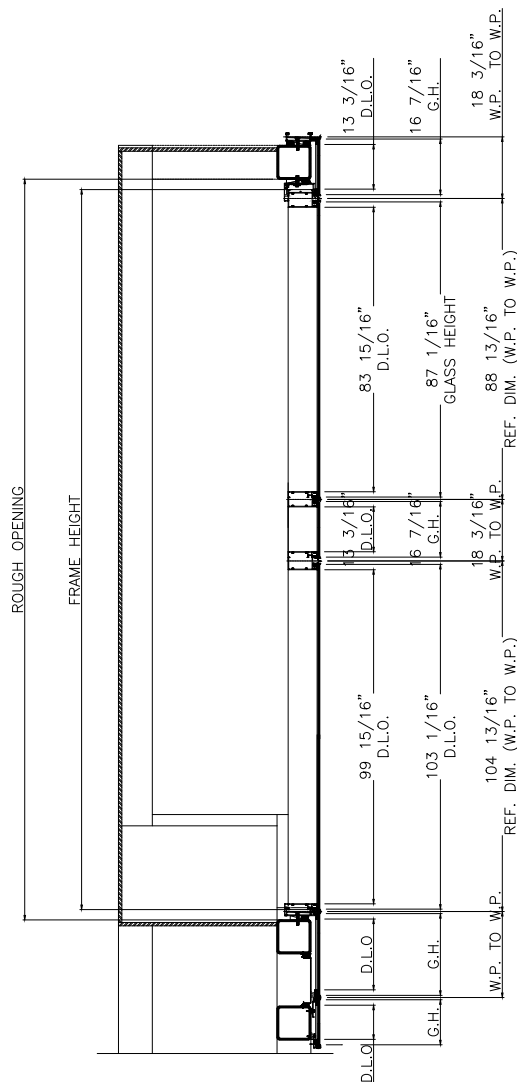
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FRAME WIDTH	FRAME WIDTH

D.L.O.	D.L.O.
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FRAME WIDTH	FRAME WIDTH

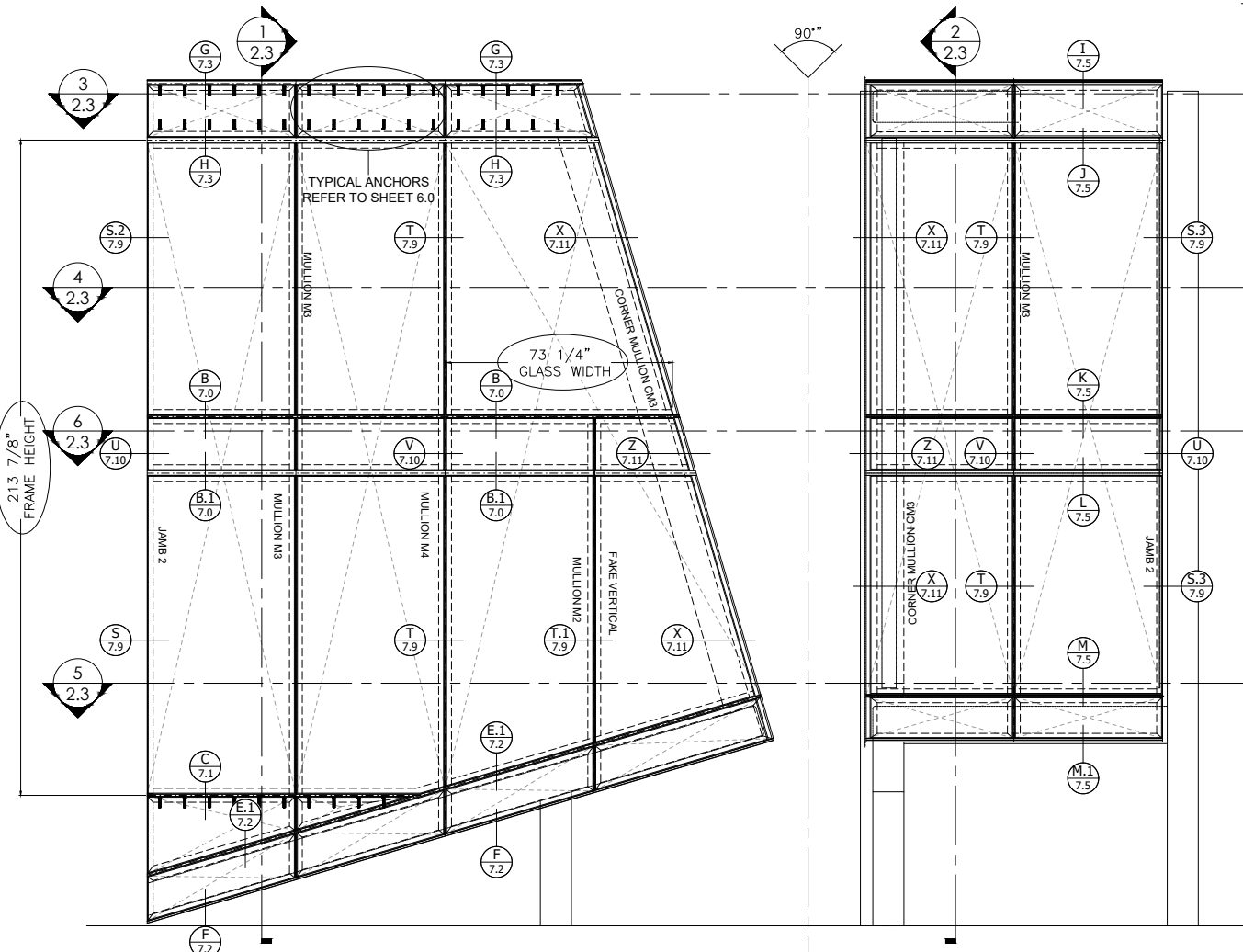


CORNER MULLION CM3

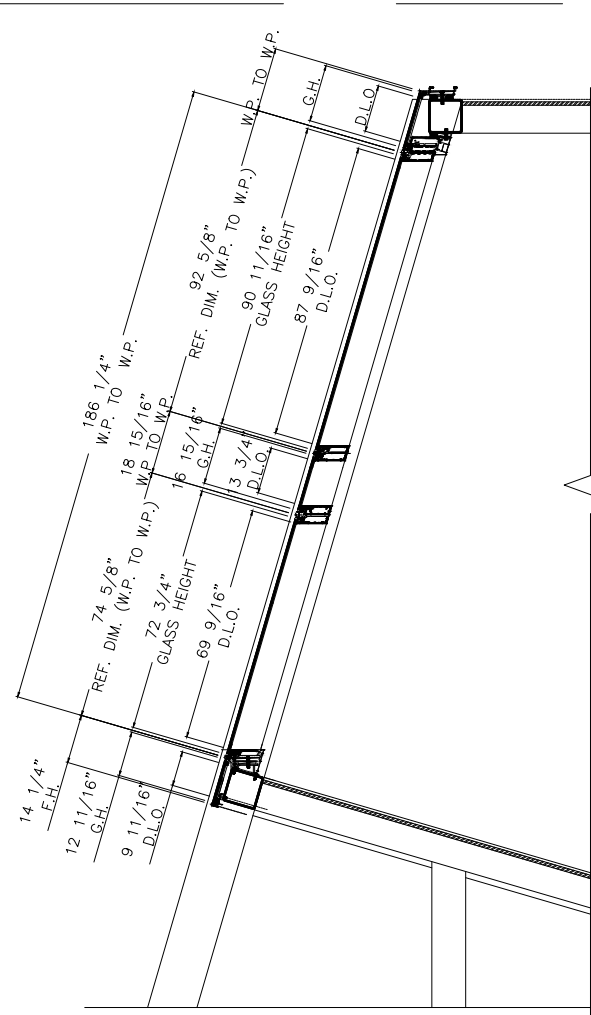
MULLION M4



TYPICAL SECTION 1



TYPICAL ELEVATION



TYPICAL SECTION 2

TYPICAL PLAN VIEW 5

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GLASS WIDTH	GLASS WIDTH	GLASS WIDTH	VARIES
FRAME WIDTH	FRAME WIDTH	FRAME WIDTH	VARIES

D.L.O.	D.L.O.
GLASS WIDTH	GLASS WIDTH
FRAME WIDTH	FRAME WIDTH

TYPICAL PLAN VIEW 6

D.L.O.	D.L.O.	D.L.O.	VARIES
GLASS WIDTH	GLASS WIDTH	GLASS WIDTH	VARIES
FRAME WIDTH	FRAME WIDTH	FRAME WIDTH	VARIES

D.L.O.	D.L.O.
GLASS WIDTH	GLASS WIDTH
FRAME WIDTH	FRAME WIDTH

MAXIMUM DESIGN
LOAD RATING =
+100/-130

GLASS: 'GL-1' ONLY
*NOTE: PLEASE REFER TO PAGES 3.0 - 3.2
FOR GLASS LIMITATIONS

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SHEET NAME:
GLAZING
DETAILS

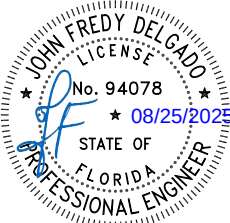
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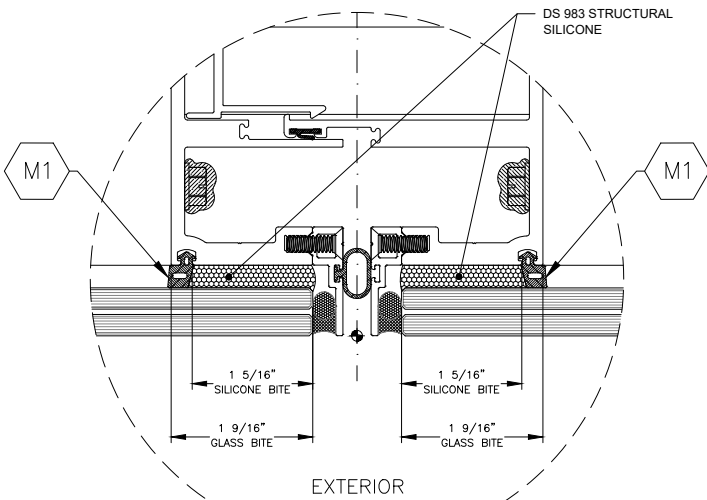
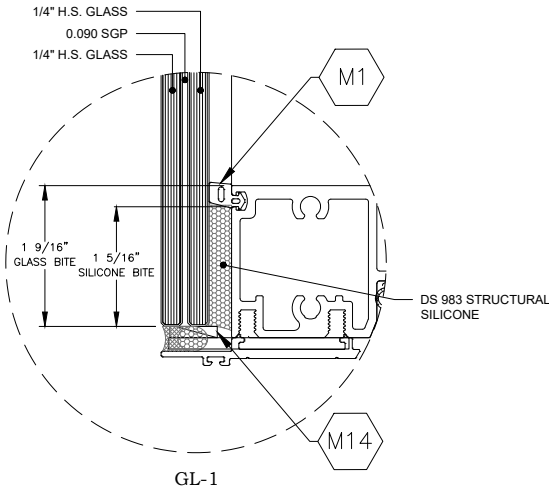
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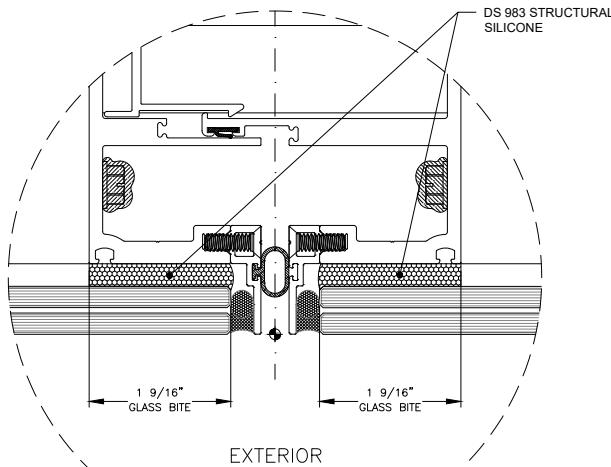


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FL. REG. # 94078

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DWG NUMBER DT-PA-ESW-004	SCALE N.T.S.	
PAGE 3.0 OF 8.4		



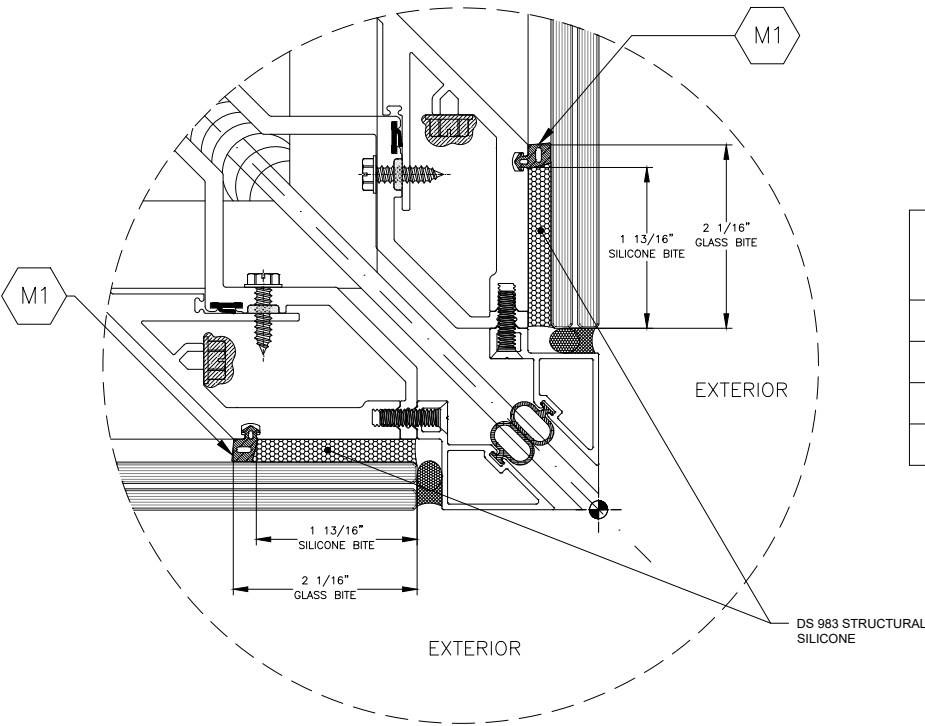
SSG MULLION WITH GASKETS



SSG MULLION WITHOUT GASKETS

GLASS WIDTH (in)	WIND LOAD PRESSURE (P.S.F.)
36	130
48	130
58	130
66	100
72	100
76 3/8	95

GLASS WIDTH (in)	WIND LOAD PRESSURE (P.S.F.)
36	130
48	130
58	130
68	130
76 3/8	100



SSG CORNER MULLIONS WITH GASKETS

GLASS WIDTH (in)	WIND LOAD PRESSURE (P.S.F.)
36	130
48	130
55 5/8	130
76 3/8	100

GLASS SILICONE CAPACITY

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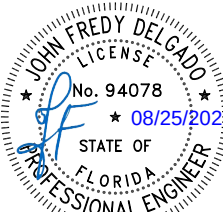
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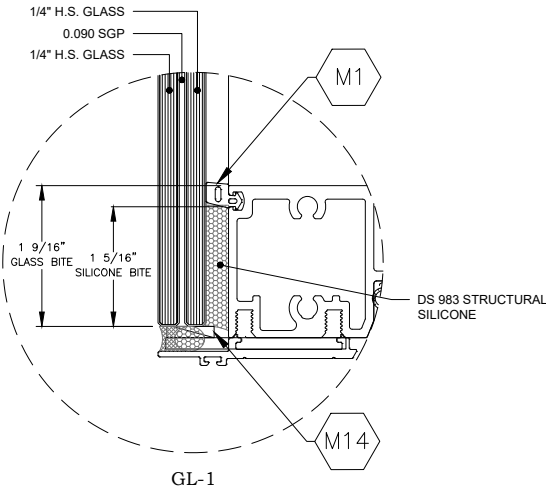
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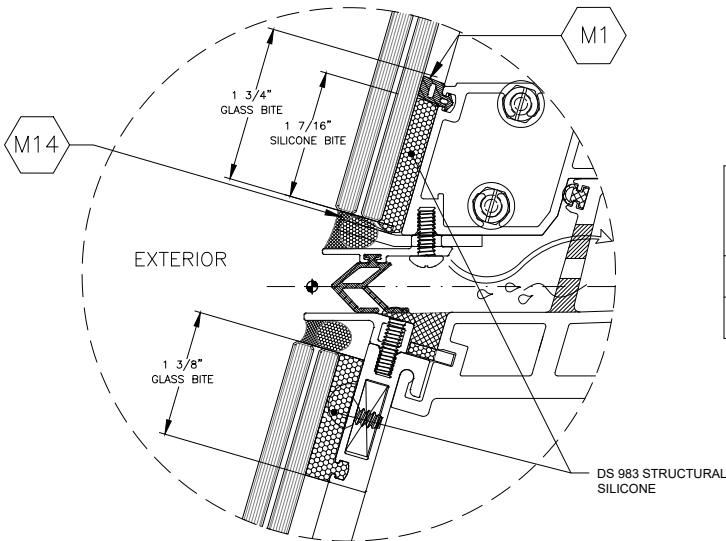


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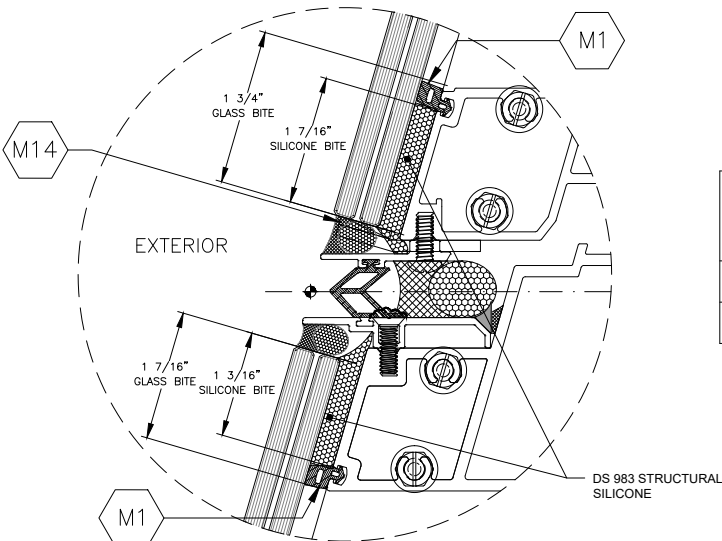
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PAGE 3.1 OF 8.4		



GLASS WIDTH (in)	WIND LOAD PRESSURE (P.S.F.)
36	130
47	130

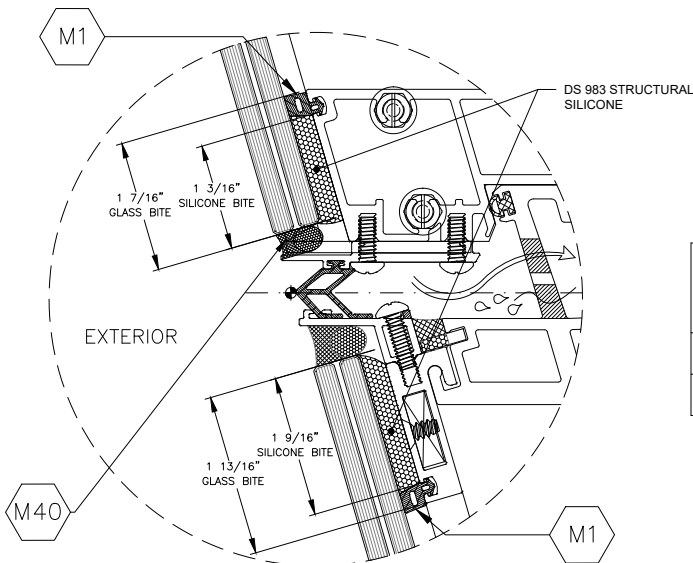


SSG SILL SLANTED WITH GASKETS



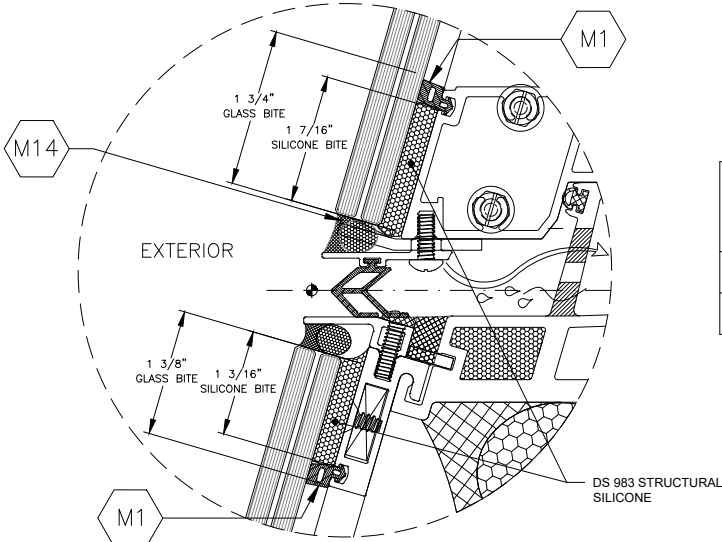
SSG INTERMEDIATE SLANTED WITH GASKETS

GLASS WIDTH (in)	WIND LOAD PRESSURE (P.S.F.)
36	130
47	130



SSG HEAD/SILL SLANTED WITH GASKETS

GLASS WIDTH (in)	WIND LOAD PRESSURE (P.S.F.)
36	130
47	100



SSG HEAD SLANTED WITH GASKETS

GLASS WIDTH (in)	WIND LOAD PRESSURE (P.S.F.)
36	130
47	130

GLASS SILICONE CAPACITY

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No. Date: Revision:

R1 05/02/2025 UPDATE

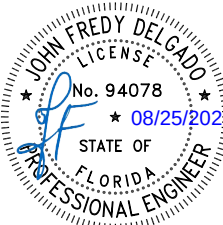
R3 08/25/2025 UPDATE

ENGINEER:

DEERFIELD
TECHNICAL INC.
CA# 36112

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DEERFIELD BEACH, FL 33443

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PREPARED BY
AC

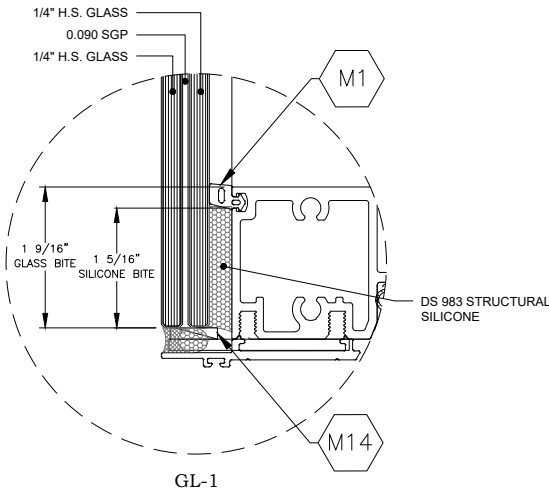
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DATE
05/02/2025

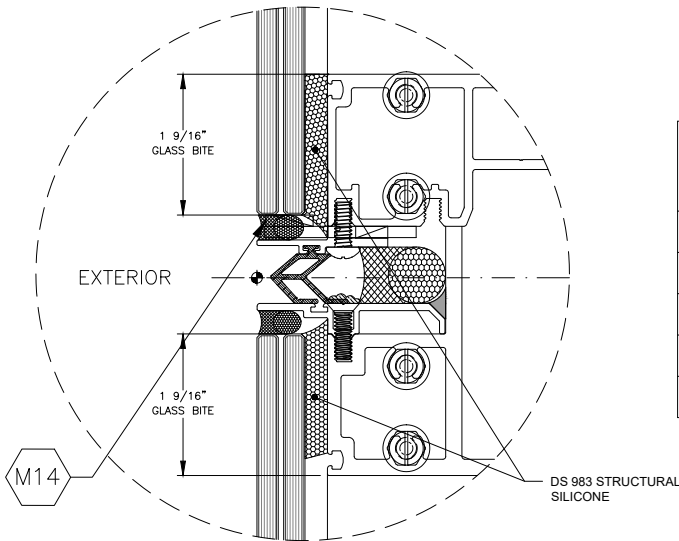
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DT-PA-ESW-004

SCALE
N.T.S.

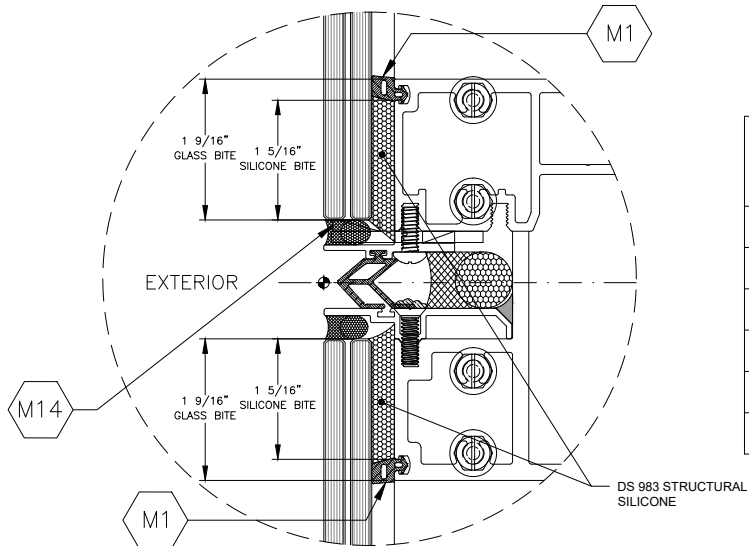
PAGE
3.2 OF 8.4



GLASS WIDTH (in)	WIND LOAD PRESSURE (P.S.F.)
36	130
48	130
58	130
66	100
72	100
76 3/8	95

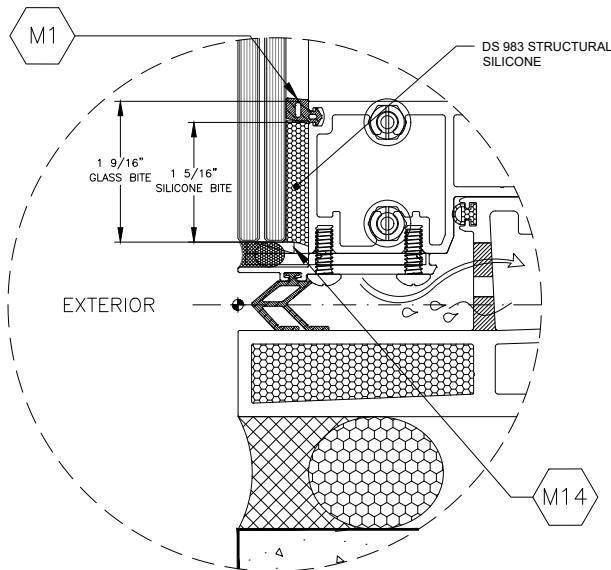


GLASS WIDTH (in)	WIND LOAD PRESSURE (P.S.F.)
36	130
48	130
58	130
68	130
76 3/8	100

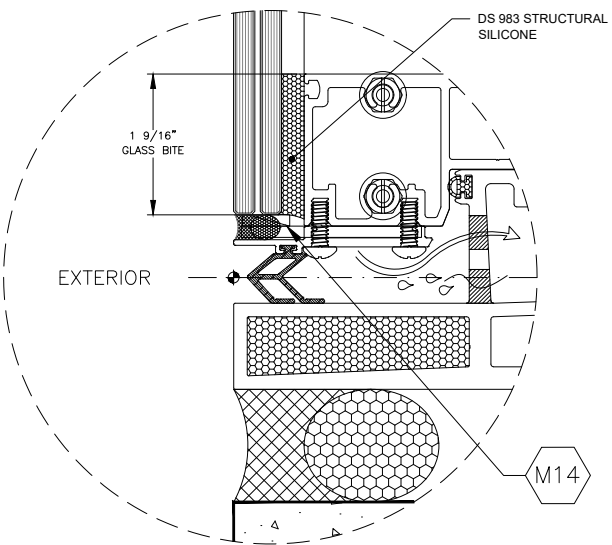


SSG INTERMEDIATE WITH GASKETS

SSG INTERMEDIATE WITHOUT GASKETS



SSG HEAD/SILL REGULAR WITH GASKETS



SSG HEAD/SILL REGULAR WITHOUT
GASKETS

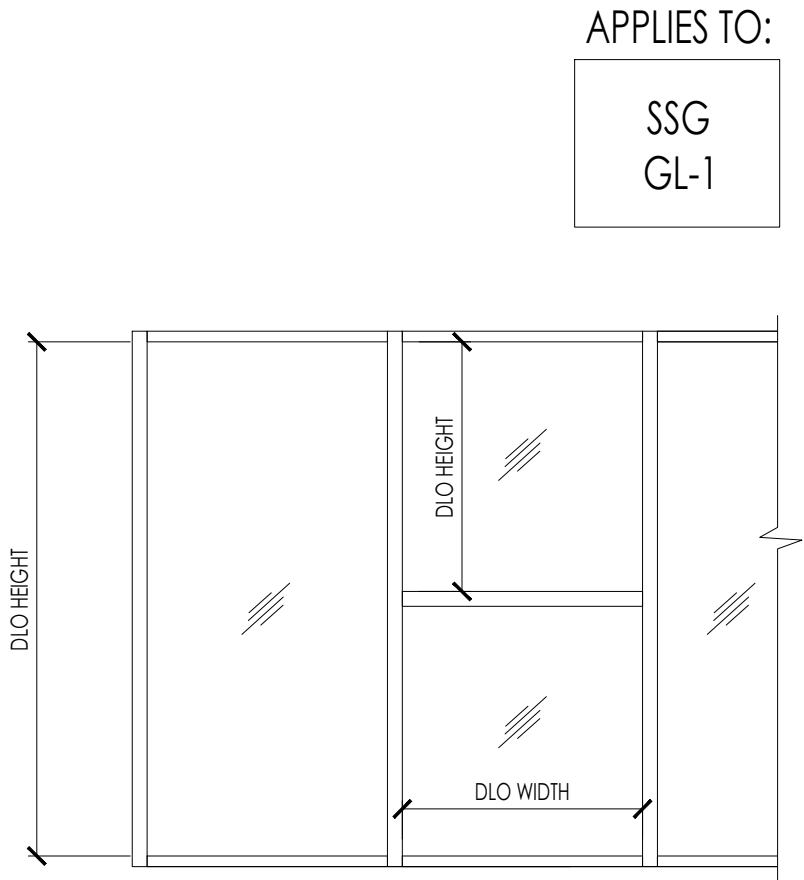
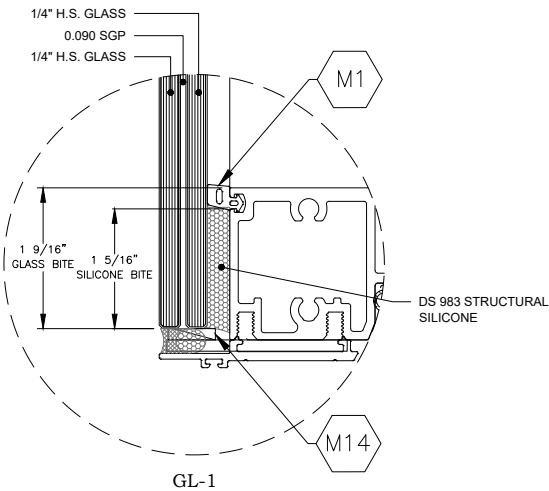
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GLASS WIDTH (in)	WIND LOAD PRESSURE (P.S.F.)
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48	130
58	130
66	130
76 3/8	100

GLASS SILICONE CAPACITY

DESIGN LOAD CAPACITY – PSF EXT.(+) & INT. (–)			
NOMINAL DIMENSIONS		GL–1	
D.L.O. WIDTH	D.L.O. HEIGHT	+	–
36	86	130	130
48		130	130
54		130	130
62		130	130
69		130	130
72 1/8		128	128
36	96	130	130
48		130	130
54		130	130
60		130	130
66		123	123
72 1/8		115	115
36	102	130	130
48		130	130
54		130	130
60		126	126
66		116	116
72 1/8		108	108
36	108	130	130
48		130	130
54		130	130
60		120	120
66		109	109
70		104	104
36	114	130	130
48		130	130
54		130	130
60		115	115
66		103	103
36	120	130	130
48		130	130
54		127	127
60		110	110
63		103	103
36	126	130	130
48		130	130
54		123	123
60		105	105
36	132	130	130
48		130	130
54		120	120
57		105	105

DESIGN LOAD CAPACITY – PSF EXT.(+) & INT. (–)			
NOMINAL DIMENSIONS		GL–1	
D.L.O. WIDTH	D.L.O. HEIGHT	+	–
36	138	130	130
44		130	130
48		130	130
54		117	117
36	144	130	130
44		130	130
48		130	130
52		122	122
36	150	130	130
44		130	130
48		130	130
50		129	129
36	156	130	130
44		130	130
48		130	130
36	162	130	130
44		130	130
45 7/8		130	130
36	165 1/16	130	130
44		130	130
45 7/8		130	130



*GLASS CAPACITIES SHOWN ON TABLES ABOVE
REFER TO MEMBERS WITHOUT GASKETS, REFER TO
SHEETS 3.0 - 3.2 FOR CAPACITIES WITH GASKETS

GLASS CAPACITY TABLE

E.S.
WINDOWS, LLC

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

PROJECT
ES-WA9040
ALUMINUM WINDOW WALL
LARGE MISILE IMPACT

FLORIDA APPROVAL #
FL# 47332.1

SHEET NAME:
GLASS
CAPACITY TABLE

DRAWING REVISION LOG

No.	Date:	Revision:
R1	05/02/2025	UPDATE
R3	08/25/2025	UPDATE

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

PO BOX 1339
DEERFIELD BEACH, FL 33443

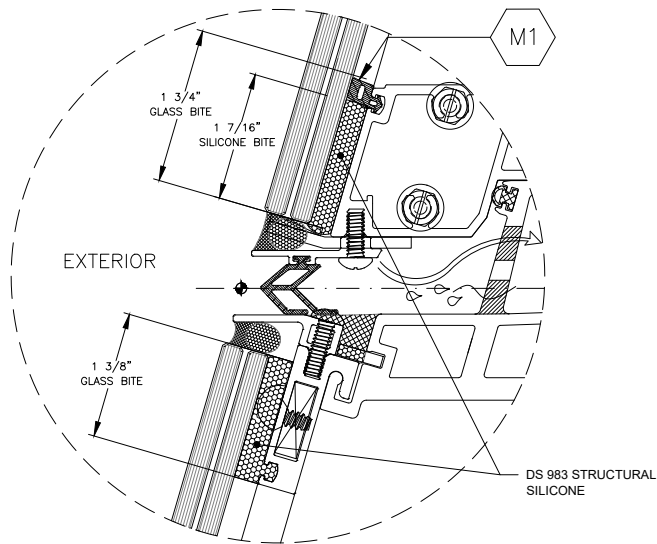
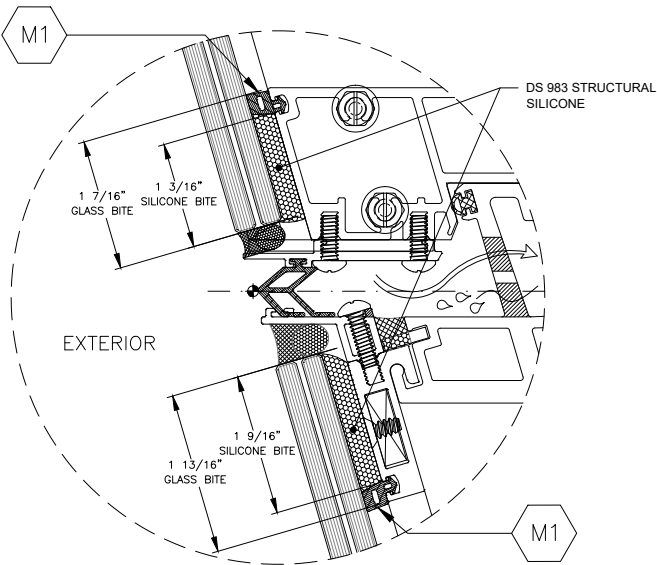
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COMPLIANCE ONLY. BY:

JOHN FREDY DELGADO
LICENSE
No. 94078
★ 08/25/2025
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
JOHN DELGADO, P.E.
FL. REG. # 94078

PREPARED BY AC	DRAFTED BY SS & DF	DATE 05/02/2025
DWG NUMBER DT-PA-ESW-004	SCALE N.T.S.	
PAGE 4.0 OF 8.4		

STRUCTURALLY GLAZED (SSG)
SLANTED GLASS CAPACITY TABLE

DESIGN LOAD CAPACITY – PSF EXT.(+) & INT. (-)			
NOMINAL DIMENSIONS		GL-1	
D.L.O. WIDTH	D.L.O. HEIGHT	+	-
36	88	100	100
40		100	100
43 7/8		100	100
36	104 1/8	100	100
40		100	100
43 7/8		100	100



*GLASS CAPACITIES SHOWN ON TABLES ABOVE
REFER TO MEMBERS WITHOUT GASKETS, REFER TO
SHEETS 3.0 - 3.2 FOR CAPACITIES WITH GASKETS

APPLIES TO:

SSG
GL-1

E.S.
WINDOWS, LLC

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PROJECT
ES-WA9040
ALUMINUM WINDOW WALL
LARGE MISILE IMPACT

FLORIDA APPROVAL #
FL# 47332.1

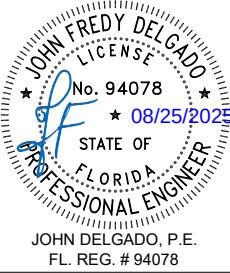
SHEET NAME:
GLASS
CAPACITY TABLE

DRAWING REVISION LOG		
No.	Date:	Revision:
R1	05/02/2025	UPDATE
R3	08/25/2025	UPDATE

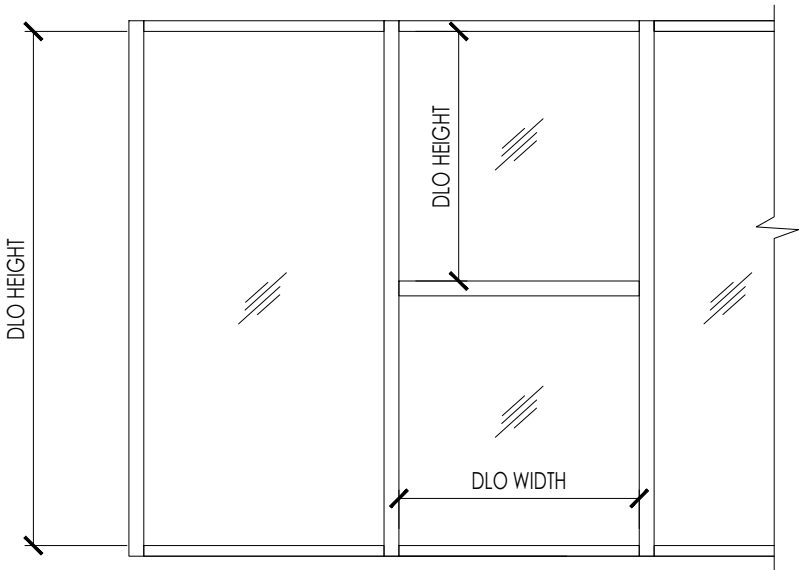
ENGINEER:
**DEERFIELD
TECHNICAL INC.**
CA# 36112

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DEERFIELD BEACH, FL 33443

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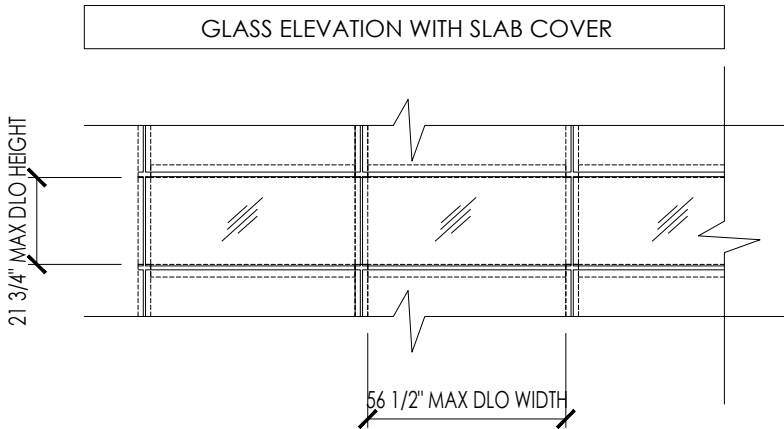
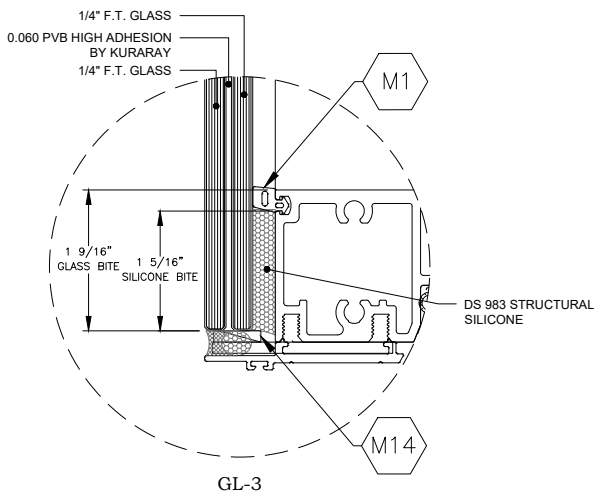
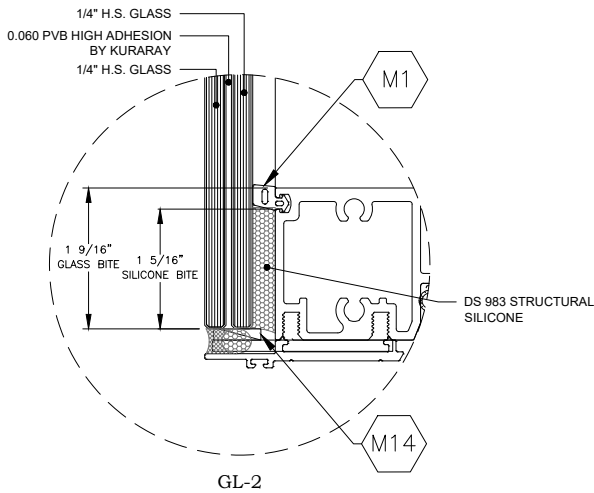


PREPARED BY AC	DRAFTED BY SS & DF	DATE 05/02/2025
DWG NUMBER DT-PA-ESW-004	SCALE N.T.S.	
PAGE 4.1 OF 8.4		



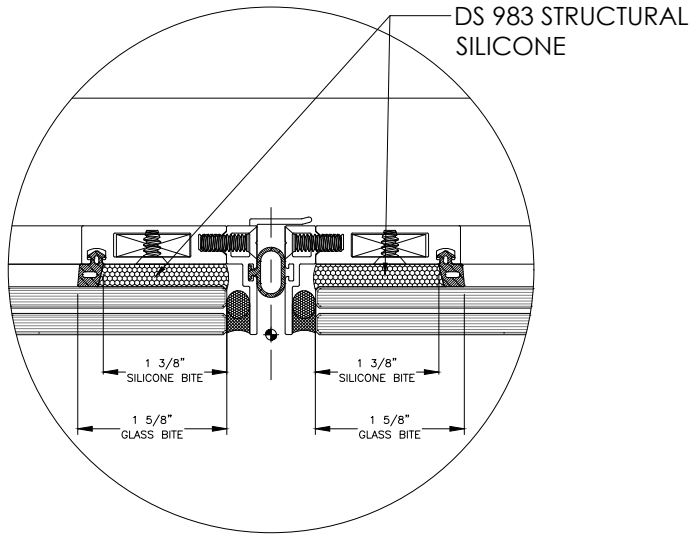
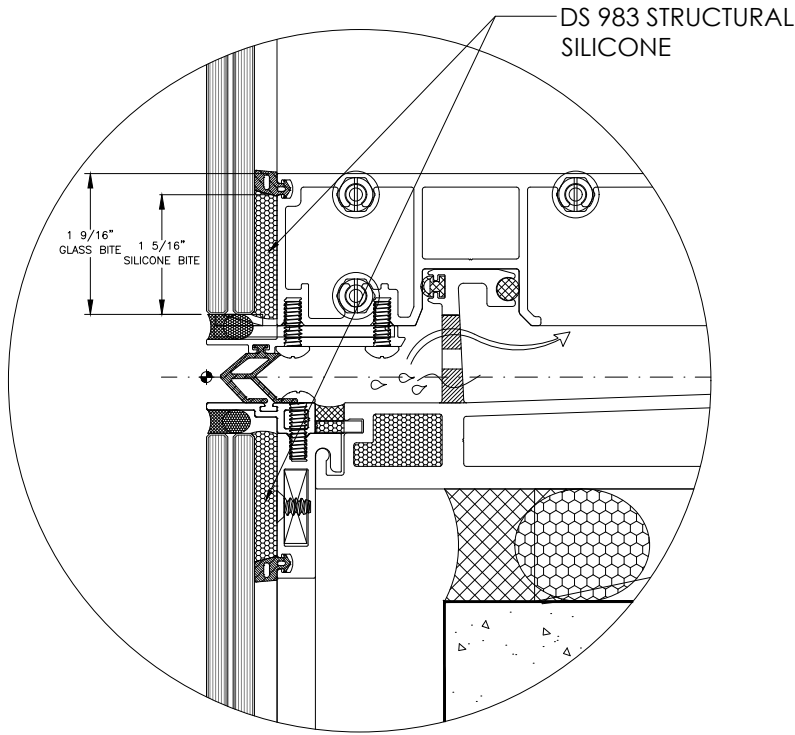
GLASS CAPACITY TABLE

GLASS SLAB COVER
CAPACITY



DESIGN LOAD CAPACITY - PSF (GL-2)			
NOMINAL DIMENSIONS		LOAD CAPACITY	
MAX DLO WIDTH	MAX DLO HEIGHT	+	-
45 7/8"	17 3/16"	130	130
49 15/19"	13 3/16"	150	150

DESIGN LOAD CAPACITY - PSF (GL-3)			
NOMINAL DIMENSIONS		LOAD CAPACITY	
MAX DLO WIDTH	MAX DLO HEIGHT	+	-
45 7/8"	17 3/16"	130	130
52"	13 3/16"	150	150



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PROJECT
ES-WA9040
ALUMINUM WINDOW WALL
LARGE MISILE IMPACT

FLORIDA APPROVAL #
FL# 47332.1

SHEET NAME:
GLASS
CAPACITY TABLE

DRAWING REVISION LOG

No. Date: Revision:

R1 05/02/2025 UPDATE

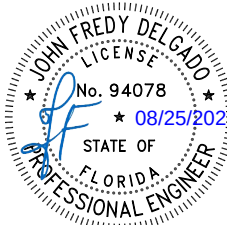
R3 08/25/2025 UPDATE

ENGINEER:

DEERFIELD
TECHNICAL INC.
CA# 36112

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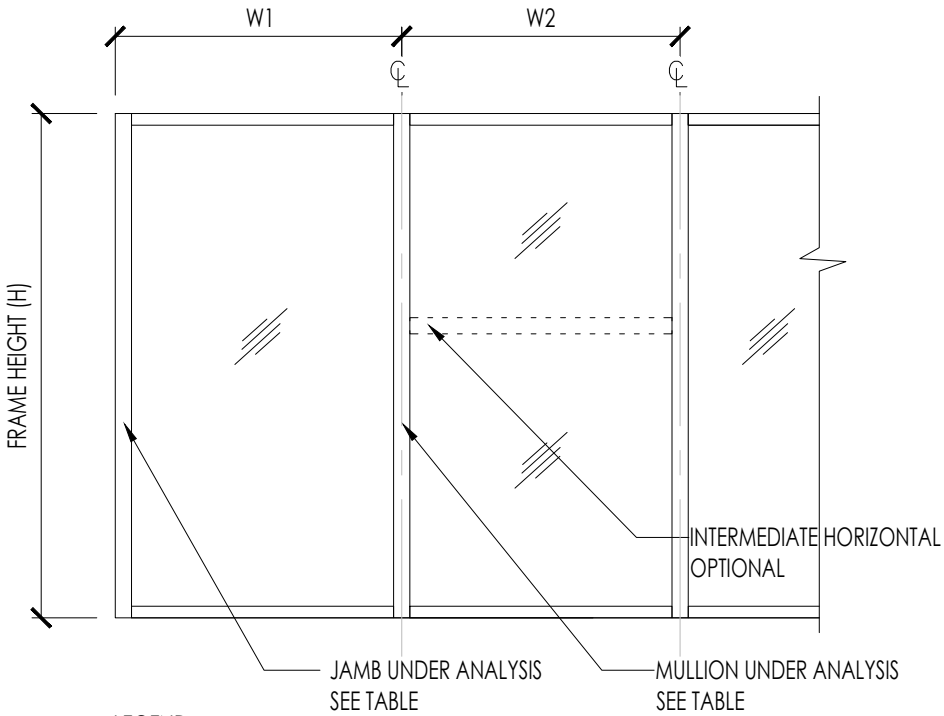


JOHN DELGADO, P.E.
FL. REG. # 94078

PREPARED BY AC	DRAFTED BY SS & DF	DATE 05/02/2025
DWG NUMBER DT-PA-ESW-004	SCALE N.T.S.	
PAGE 4.2 OF 8.4		

SINGLE HEIGHT MULLION/JAMB DESIGN LOAD CAPACITY--P.S.F.					
WITH OR WITHOUT INTERMEDIATE HORIZONTAL					
NOMINAL DIMENSIONS		JAMB 'J1'		MULLION 'M1'	
WIDTH (W)	FRAME HEIGHT (H)	EXT.(+)	INT.(−)	EXT.(+)	INT.(−)
36	88	130	130	130	130
48		130	130	130	130
54		130	130	130	130
60		130	130	130	130
66		130	130	130	130
72		130	130	130	130
76		130	130	130	130
80		130	130	130	130
86	96	130	130	130	130
36		130	130	130	130
48		130	130	130	130
54		130	130	130	130
60		130	130	130	130
66		130	130	130	130
72		130	130	130	130
76		130	130	130	130
80	102	130	130	130	130
86		130	130	130	130
36		130	130	130	130
48		130	130	130	130
54		130	130	130	130
60		130	130	130	130
66		130	130	130	130
72		130	130	130	130
76	108	130	130	130	130
80		130	130	130	130
86		130	130	130	130
36		130	130	130	130
48		130	130	130	130
54		130	130	130	130
60		130	130	130	130
66		130	130	130	130
72	114	130	130	130	130
76		130	130	130	130
80		130	130	130	130
36		130	130	130	130
48		130	130	130	130
54		130	130	130	130
60		130	130	130	130
66		130	130	130	130
72	120	130	130	130	130
76		130	130	130	130
80		130	130	130	130
36		130	130	130	130
48		130	130	130	130
54		130	130	130	130
60		130	130	130	130
66		130	130	130	130

SINGLE HEIGHT MULLION/JAMB DESIGN LOAD CAPACITY--P.S.F.					
WITH OR WITHOUT INTERMEDIATE HORIZONTAL					
NOMINAL DIMENSIONS		JAMB 'J1'		MULLION 'M1'	
WIDTH (W)	FRAME HEIGHT (H)	EXT.(+)	INT.(−)	EXT.(+)	INT.(−)
36	126	130	130	130	130
48		130	130	130	130
54		130	130	130	130
60		130	130	130	130
66		130	130	130	130
69		130	130	130	130
36	132	130	130	130	130
48		130	130	130	130
54		130	130	130	130
60		130	130	130	130
66	138	130	130	130	130
36		130	130	130	130
48		130	130	130	130
54		130	130	130	130
60	144	130	130	130	130
63		130	130	130	130
36		130	130	130	130
42		130	130	130	130
48	150	130	130	130	130
54		130	130	130	130
60		130	130	130	130
36	156	130	130	130	130
42		130	130	130	130
48		130	130	130	130
54		130	130	130	130
56	162	130	130	130	130
36		130	130	130	130
42		130	130	130	130
48		130	130	130	130
54	168	130	130	130	130
52		130	130	130	130
36		130	130	130	130
42		130	130	130	130
48	176	130	130	130	130
36		130	130	130	130
42		130	130	130	130
48		130	130	130	130
49 7/8		130	130	130	130



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'	
	SSG		SSG	
	1x IN^4	Sx IN^3	1x IN^4	Sx IN^3
ALUMINUM	32.6236	7.115444	57.65	11.8462
STEEL	-	-	-	-
TOTAL				
1x ALUM + 1x STL X 2.9	32.6236	-	57.65	-

E.S.
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PROJECT
ES-WA9040
ALUMINUM WINDOW WALL
LARGE MISILE IMPACT

FLORIDA APPROVAL #
FL# 47332.1

SHEET NAME:
JAMB/MULLION
CAPACITY TABLE

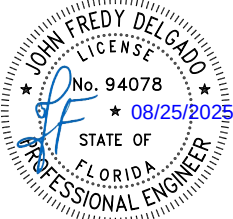
DRAWING REVISION LOG

No.	Date:	Revision:
R1	05/02/2025	UPDATE
R3	08/25/2025	UPDATE

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

PO BOX 1339
DEERFIELD BEACH, FL 33443

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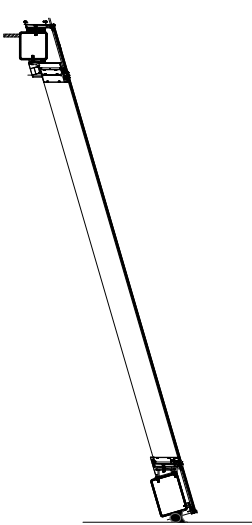


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FL. REG. # 94078

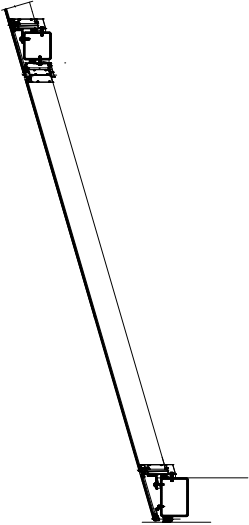
PREPARED BY AC	DRAFTED BY SS & DF	DATE 05/02/2025
DWG NUMBER DT-PA-ESW-004	SCALE N.T.S.	
PAGE 5.0 OF 8.4		

JAMB & MULLION CAPACITY TABLE
WITH OR WITHOUT INTERMEDIATE
HORIZONTALS

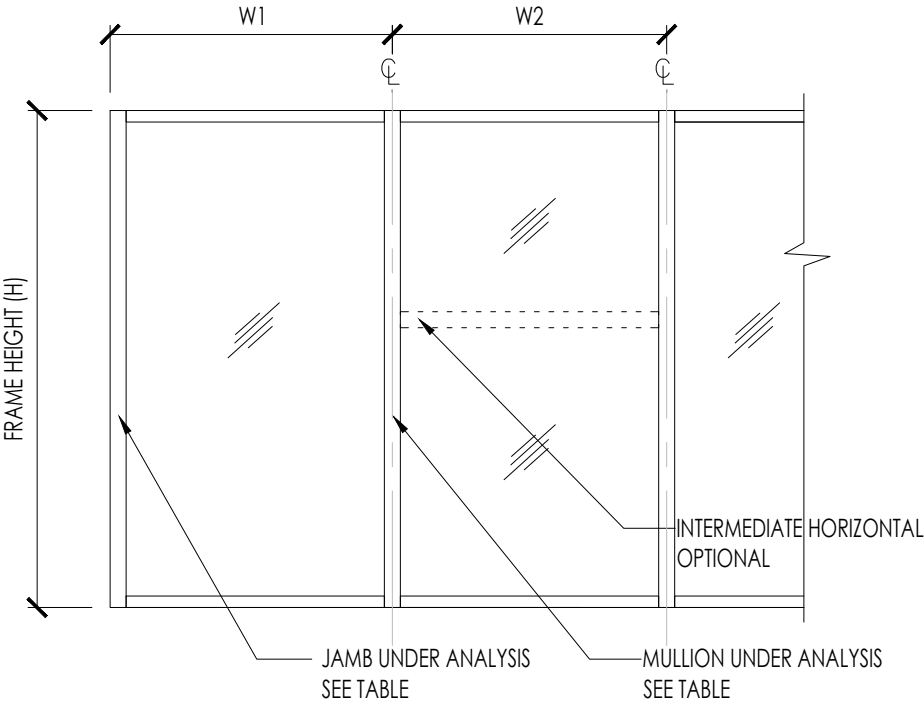
SINGLE HEIGHT SLANTEDMULLION/JAMB DESIGN LOAD CAPACITY--P.S.F.					
WITH OR WITHOUT INTERMEDIATE HORIZONTAL					
NOMINAL DIMENSIONS		JAMB 'J1'		MULLION 'M1'	
WIDTH (W)	FRAME HEIGHT (H)	EXT.(+)	INT.(−)	EXT.(+)	INT.(−)
36	88	100	100	100	100
48		100	100	100	100
54		100	100	100	100
58		100	100	100	100
36	96	100	100	100	100
48		100	100	100	100
54		100	100	100	100
36	102	100	100	100	100
48		100	100	100	100
50		100	100	100	100
36	109 3/16	130	130	130	130
48		130	130	130	130



SLANTED SECTION



SLANTED FORWARD SECTION



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 & MULLION SLANTED
CAPACITY TABLE
WITH OR WITHOUT INTERMEDIATE HORIZONTALS

	JAMB 'J1'		MULLION 'M1'	
	Ix IN^4	Sx IN^3	Ix IN^4	Sx IN^3
ALUMINUM	32.6236	7.115444	57.65	11.8462
STEEL	-	-	-	-
TOTAL				
Ix ALUM + Ix STL X 2.9	32.6236	-	57.65	-

E.S.
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PROJECT
ES-WA9040
ALUMINUM WINDOW WALL
LARGE MISILE IMPACT

FLORIDA APPROVAL #
FL# 47332.1

SHEET NAME:
JAMB/MULLION
CAPACITY TABLE

DRAWING REVISION LOG		
No.	Date:	Revision:
R1	05/02/2025	UPDATE
R3	08/25/2025	UPDATE

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

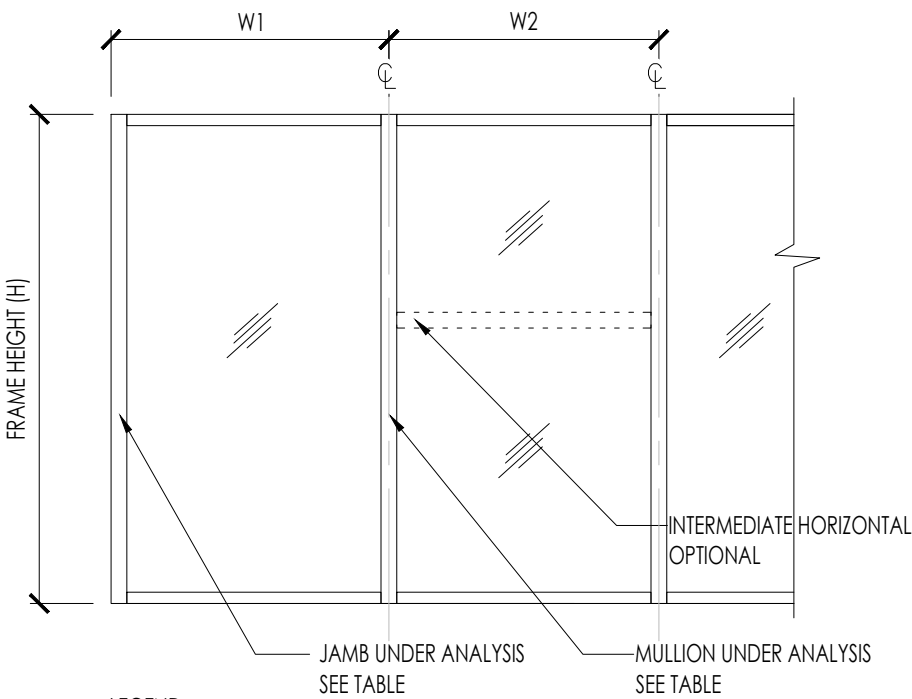
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FL. REG. # 94078

PREPARED BY AC	DRAFTED BY SS & DF	DATE 05/02/2025
DWG NUMBER DT-PA-ESW-004	SCALE N.T.S.	
PAGE 5.1 OF 8.4		

DOUBLE HEIGHT MULLION/JAMB DESIGN LOAD CAPACITY-P.S.F.					
WITH OR WITHOUT INTERMEDIATE HORIZONTAL					
NOMINAL DIMENSIONS		JAMB 'J2'		MULLION 'M3'	
WIDTH (W)	FRAME HEIGHT (H)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
36	184	130	130	130	130
42		130	130	130	130
48		130	130	130	130
54		130	130	130	130
36	190	130	130	130	130
42		130	130	130	130
48		130	130	130	130
52		130	130	130	130
36	196	130	130	130	130
42		130	130	130	130
48		130	130	130	130
52		130	130	130	130
36	202	130	130	130	130
42		130	130	130	130
48		130	130	130	130
50		130	130	130	130
36	210	130	130	130	130
42		130	130	130	130
48		130	130	130	130
36	213 7/8	130	130	130	130
42		130	130	130	130
48		130	130	130	130



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 & MULLION SLANTED
CAPACITY TABLE
WITH OR WITHOUT INTERMEDIATE HORIZONTALS

	JAMB 'J2'		MULLION 'M3'	
	Ix IN^4	Sx IN^3	Ix IN^4	Sx IN^3
ALUMINUM	37.039	7.115	62.065	11.8462
STEEL	9	3	9	3
TOTAL Ix ALUM + Ix STL X 2.9	63.139	-	88.165	-

E.S.
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PROJECT
ES-WA9040
ALUMINUM WINDOW WALL
LARGE MISILE IMPACT

FLORIDA APPROVAL #
FL# 47332.1

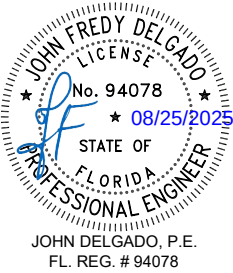
SHEET NAME:
JAMB/MULLION
CAPACITY TABLE

DRAWING REVISION LOG		
No.	Date:	Revision:
R1	05/02/2025	UPDATE
R3	08/25/2025	UPDATE

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

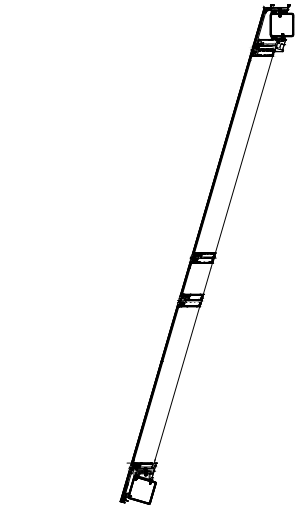
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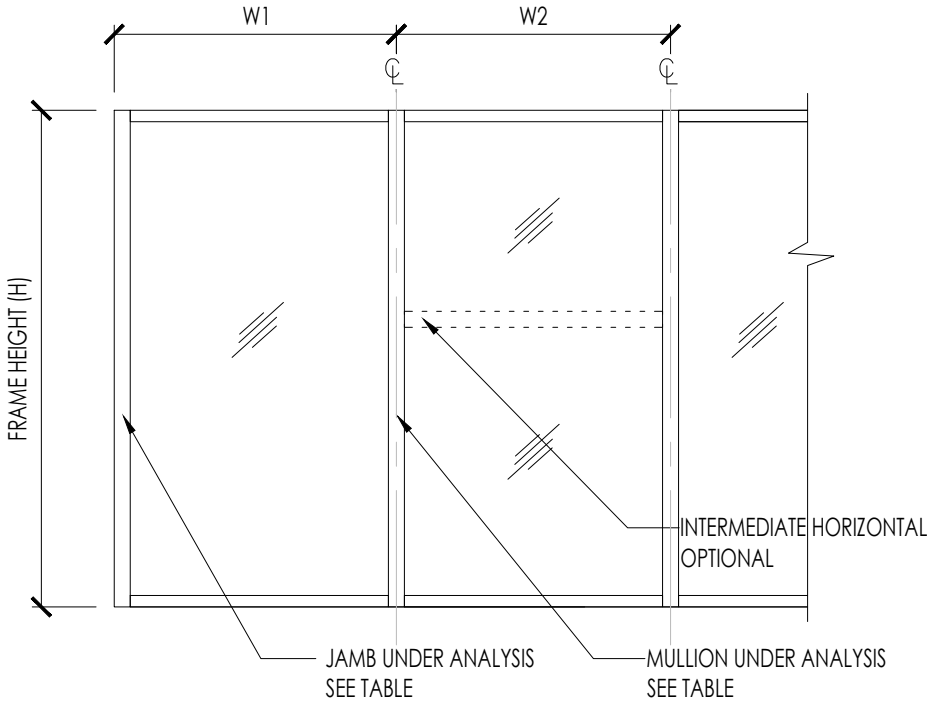


PREPARED BY AC	DRAFTED BY SS & DF	DATE 05/02/2025
DWG NUMBER DT-PA-ESW-004	SCALE N.T.S.	
PAGE 5.2 OF 8.4		

DOUBLE HEIGHT MULLION/JAMB DESIGN LOAD CAPACITY—P.S.F.							
WITH OR WITHOUT INTERMEDIATE HORIZONTAL							
NOMINAL DIMENSIONS		JAMB 'J2'		MULLION 'M2'		MULLION 'M3'	
WIDTH (W)	FRAME HEIGHT (H)	EXT.(+)	INT.(−)	EXT.(+)	INT.(−)	EXT.(+)	INT.(−)
36	184	90	90	90	90	90	90
42		90	90	90	90	90	90
48		90	90	90	90	90	90
54		90	90	90	90	90	90
57		90	90	90	90	90	90
36	190	90	90	90	90	90	90
42		90	90	90	90	90	90
48		90	90	90	90	90	90
54		90	90	90	90	90	90
56		90	90	90	90	90	90
36	196	90	90	90	90	90	90
42		90	90	90	90	90	90
48		90	90	90	90	90	90
54		90	90	90	90	90	90
56		90	90	90	90	90	90
36	202	90	90	90	90	90	90
42		90	90	90	90	90	90
48		90	90	90	90	90	90
52		90	90	90	90	90	90
56		90	90	90	90	90	90
36	210	90	90	90	90	90	90
42		90	90	90	90	90	90
50		90	90	90	90	90	90
56		90	90	90	90	90	90
58		90	90	90	90	90	90
36	214	90	90	90	90	90	90
42		90	90	90	90	90	90
48		90	90	90	90	90	90
56		90	90	90	90	90	90
58		90	90	90	90	90	90
36	222 3/4	90	90	90	90	90	90
42		90	90	90	90	90	90
48		90	90	90	90	90	90
56		90	90	90	90	90	90
58		90	90	90	90	90	90



SLANTED SECTION



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 & MULLION SLANTED
CAPACITY TABLE
WITH OR WITHOUT INTERMEDIATE HORIZONTALS

	JAMB 'J2'		MULLION 'M2'		MULLION 'M3'	
	Ix IN^4	Sx IN^3	Ix IN^4	Sx IN^3	Ix IN^4	Sx IN^3
ALUMINUM	37.039	7.115	62.065	11.8462	62.065	11.8462
STEEL	9	3	9	3	18	6
TOTAL Ix ALUM + Ix STL X 2.9	63.139	-	88.165	-	114.265	-

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PROJECT
ES-WA9040
ALUMINUM WINDOW WALL
LARGE MISILE IMPACT

FLORIDA APPROVAL #
FL# 47332.1

SHEET NAME:
JAMB/MULLION
CAPACITY TABLE

DRAWING REVISION LOG

No. Date: Revision:

R1 05/02/2025 UPDATE

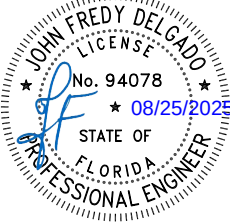
R3 08/25/2025 UPDATE

ENGINEER:

DEERFIELD
TECHNICAL INC.
CA# 36112

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FL. REG. # 94078

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AC

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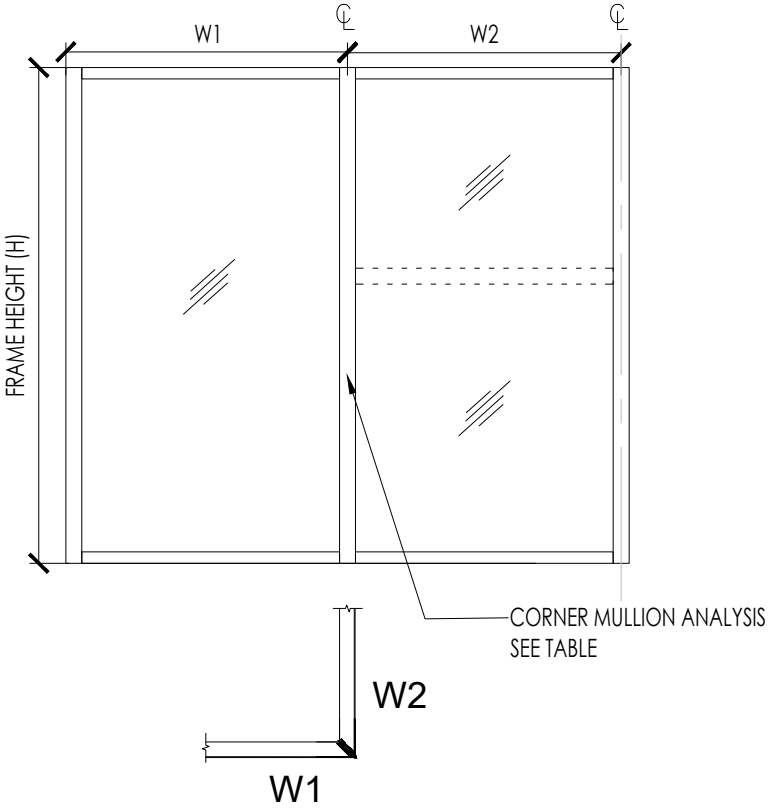
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SINGLE HEIGHT CORNER MULLION DESIGN LOAD CAPACITY-P.S.F.			
WITH OR WITHOUT INTERMEDIATE HORIZONTAL			
NOMINAL DIMENSIONS		CORNER MULLION 'CM'	
WIDTH (W)	FRAME HEIGHT (H)	EXT.(+)	INT.(-)
36	90 7/8	100	100
42		100	100
48		100	100
54		100	100
60		100	100
66		100	100
72	106 7/8	100	100
36		100	100
42		100	100
48		100	100
54		100	100
60		100	100
64 7/8		100	100



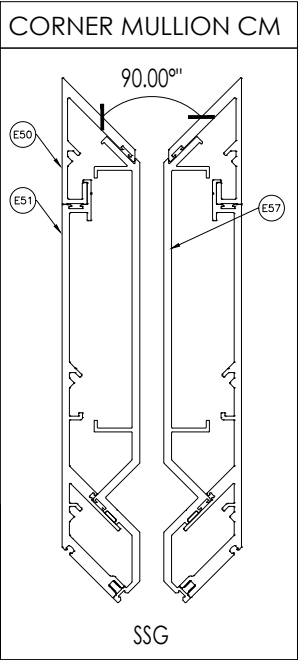
LEGEND

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 CAPACITY TABLE
WITH OR WITHOUT INTERMEDIATE HORIZONTALS

	1x IN^4	Sx IN^3
ALUMINUM	124.906	22.61
STEEL	-	-
TOTAL 1x ALUM + 1x STL X 2,9	237.337	



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ANCHOR DESIGN LOAD CAPACITY – PSF EXT.(+) & INT.(–)								
NOMINAL DIMS.	ANCHOR TYPE 'A'				ANCHOR TYPE 'B'			
FRAME HEIGHT (H)	A10	A8	A6	A4	B10	B8	B6	B4
88	130	130	130	130	130	130	130	130
96	130	130	130	130	130	130	130	130
102	130	130	130	130	130	130	130	130
108	130	130	130	130	130	130	130	130
114	130	130	130	130	130	130	130	130
120	130	130	130	130	130	130	130	130
126	130	130	130	130	130	130	130	130
132	129	130	130	130	128	130	130	130
138	122	130	130	130	121	130	130	130
144	116	130	130	130	115	130	130	130
150	111	130	130	130	110	130	130	130
156	106	130	130	130	104	130	130	130
162	101	130	130	130	100	130	130	130
168	97	126	130	130	95	125	130	130
176	91	120	130	130	90	118	130	130
184	87	114	130	130	85	112	130	130
190	83	109	130	130	81	108	130	130
196	80	105	130	130	78	104	130	130
202	77	101	130	130	75	100	130	130
210	73	97	130	130	71	95	130	130
213 7/8	71	95	130	130	69	93	130	130

TYPICAL ANCHORS:	
TYPE 'A'	TYPE 'B'
1/2" HILTI KH-EZ INTO 3 KSI CONCRETE (FU=112540 psi) 3" MIN. EDGE DISTANCE 3" MIN. EMBEDMENT	1/2" SAE GRADE 5 TAPPED DRILLED THREADED BOLT INTO STEEL STRUCTURES 1/4" THK. MIN. (SUBSTRATE fy = 36 KSI MIN.) (FU=120000 psi) 1-1/2" MIN. EDGE DISTANCE 1/2" MIN. EMBEDMENT

ANCHORS CAPACITY TABLE

ANCHORS TYPES

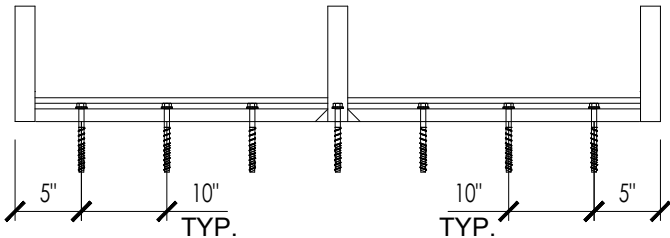
A10 = ANCHORS TYPE A AT 5" FROM CORNERS AND 10" O.C.
B10 = ANCHORS TYPE A AT 5" FROM CORNERS AND 10" O.C.

A8 = ANCHORS TYPE A AT 4" FROM CORNERS AND 8" O.C.
B8 = ANCHORS TYPE A AT 4" FROM CORNERS AND 8" O.C.

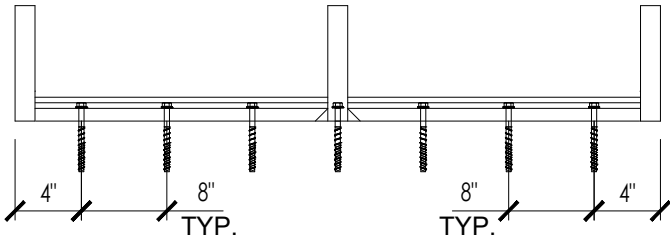
A6 = ANCHORS TYPE A AT 3" FROM CORNERS AND 6" O.C.
B6 = ANCHORS TYPE A AT 3" FROM CORNERS AND 6" O.C.

A4 = ANCHORS TYPE A AT 2" FROM CORNERS AND 4" O.C.
B4 = ANCHORS TYPE A AT 2" FROM CORNERS AND 4" O.C.

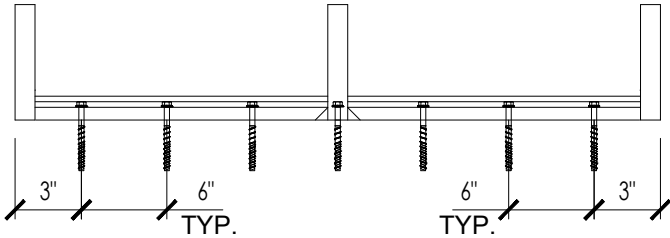
'A10' & 'B10'



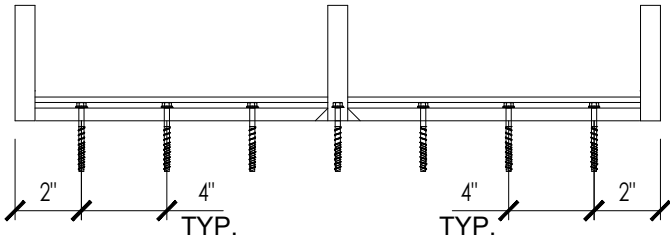
'A8' & 'B8'



'A6' & 'B6'



'A4' & 'B4'



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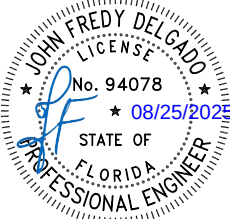
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SLAB COVER ANCHOR DESIGN LOAD CAPACITY – PSF EXT.(+) & INT.(–)								
NOMINAL DIMS.	ANCHOR TYPE 'C'				ANCHOR TYPE 'D'			
SLAB COVER HEIGHT	C12	D12	C12	D10	C8	D8	C6	D6
25	130	130	130	130	130	130	130	130

ANCHOR TYPES

TYPE "C" at STARTER OR END SLAB COVER ANCHOR

-5/16" DRILL-FLEX OR SDS INTO STEEL STRUCTURES 1/4" THK. MIN. (fy=36 KSI MIN.)

-1/2" MIN. EDGE DISTANCE

-(3)THREADS MIN. PENETRATION BEYOND SUBSTRATE

TYPE "D" at STARTER OR END SLAB COVER ANCHOR

-5/16" ULTRACON BY DEWALT INTO 4 KSI CONCRETE

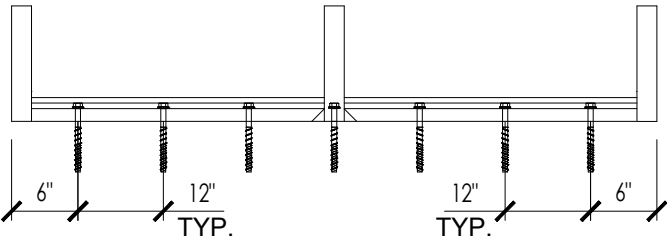
-2-1/2" MIN. EDGE DISTANCE

-2" MIN. EMBEDMENT

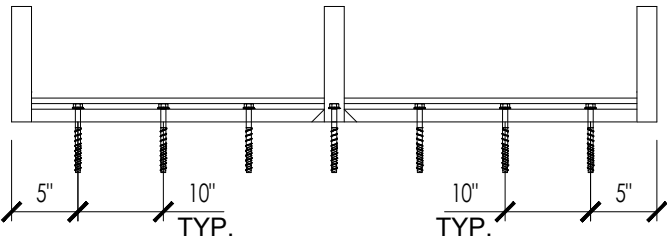
-2-1/2" MIN. EDGE DISTANCE

ANCHORS CAPACITY TABLE

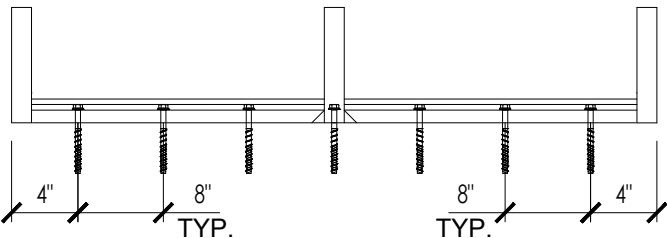
'C12' & 'D12'



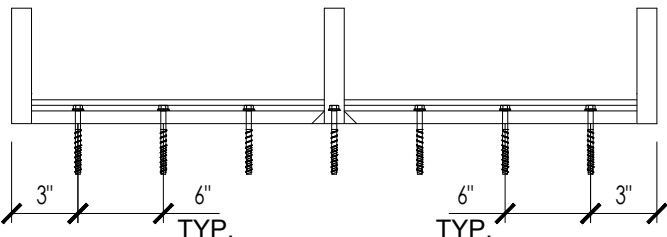
'C10' & 'D10'



'C8' & 'D8'



'C6' & 'D6'



ANCHORS TYPES

C12 = ANCHORS TYPE A AT 6" FROM CORNERS AND 12" O.C.
D12 = ANCHORS TYPE A AT 6" FROM CORNERS AND 12" O.C.

C10 = ANCHORS TYPE A AT 5" FROM CORNERS AND 10" O.C.
D10 = ANCHORS TYPE A AT 5" FROM CORNERS AND 10" O.C.

C8 = ANCHORS TYPE A AT 4" FROM CORNERS AND 8" O.C.
D8 = ANCHORS TYPE A AT 4" FROM CORNERS AND 8" O.C.

C6 = ANCHORS TYPE A AT 3" FROM CORNERS AND 6" O.C.
D6 = ANCHORS TYPE A AT 3" FROM CORNERS AND 6" O.C.

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CAPACITY TABLE

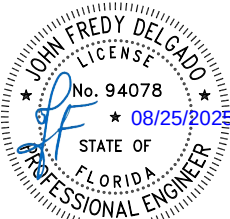
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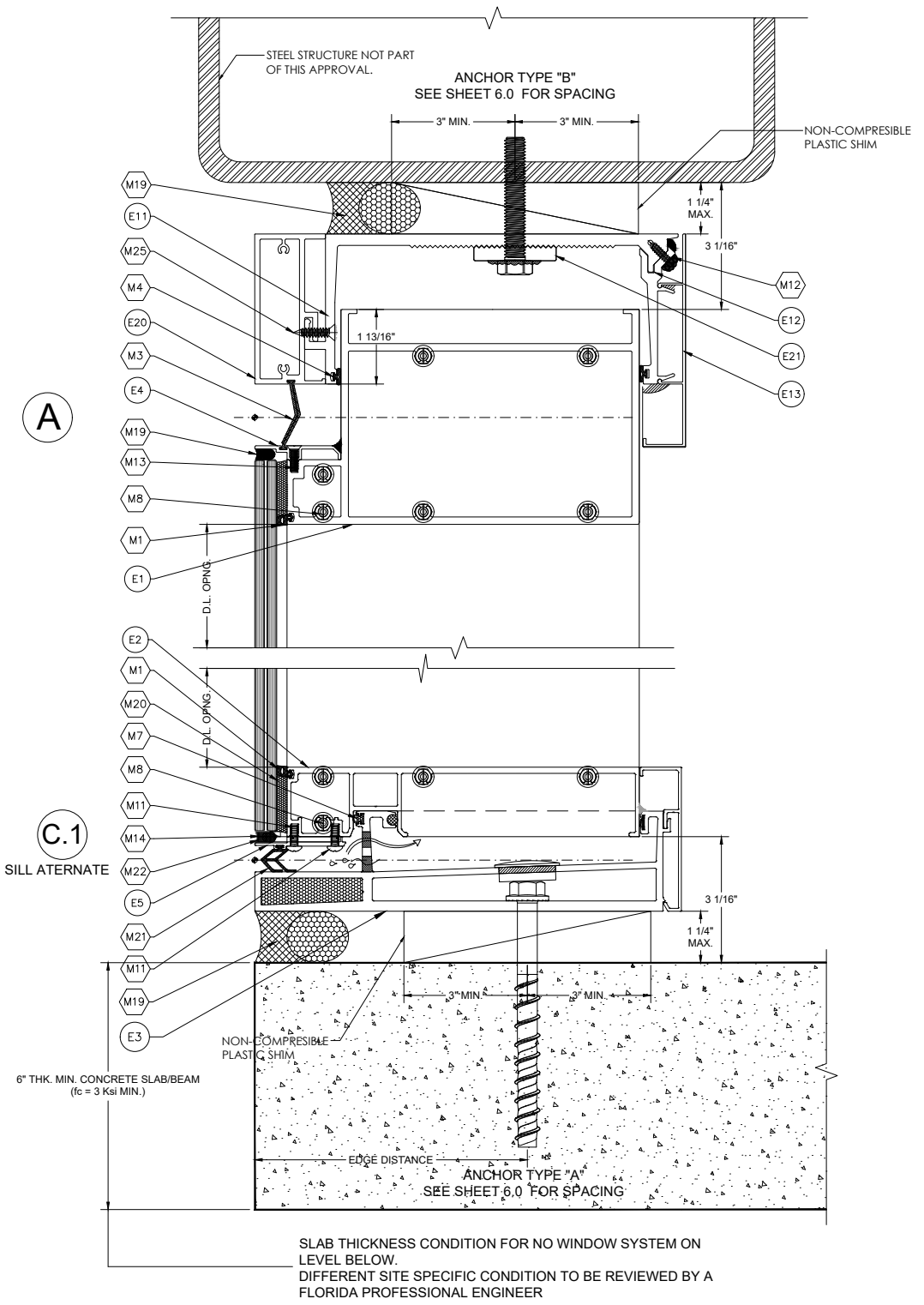
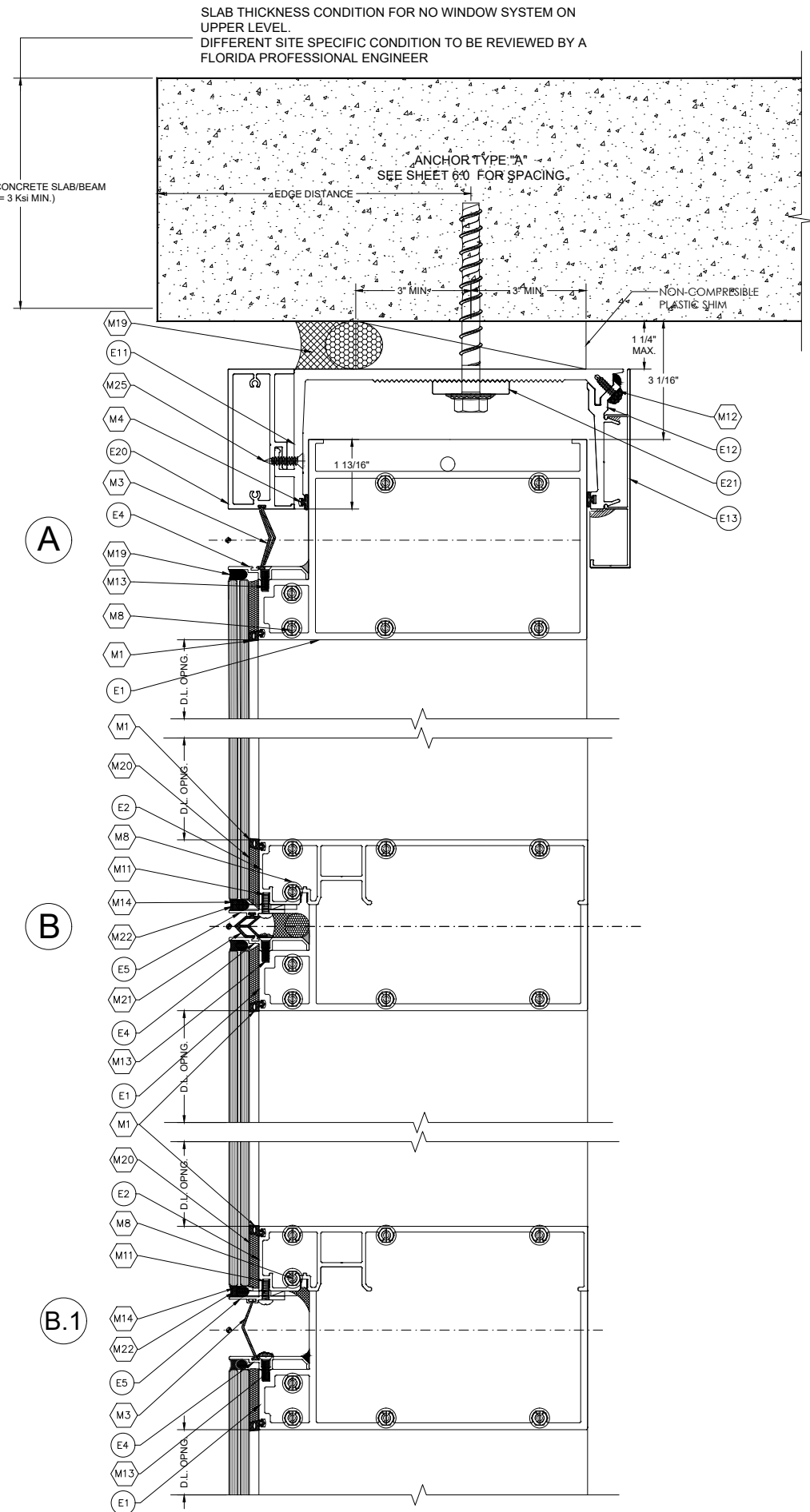
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FL. REG. # 94078

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PAGE 7.0 OF 8.4		

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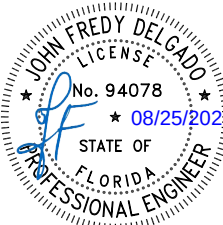
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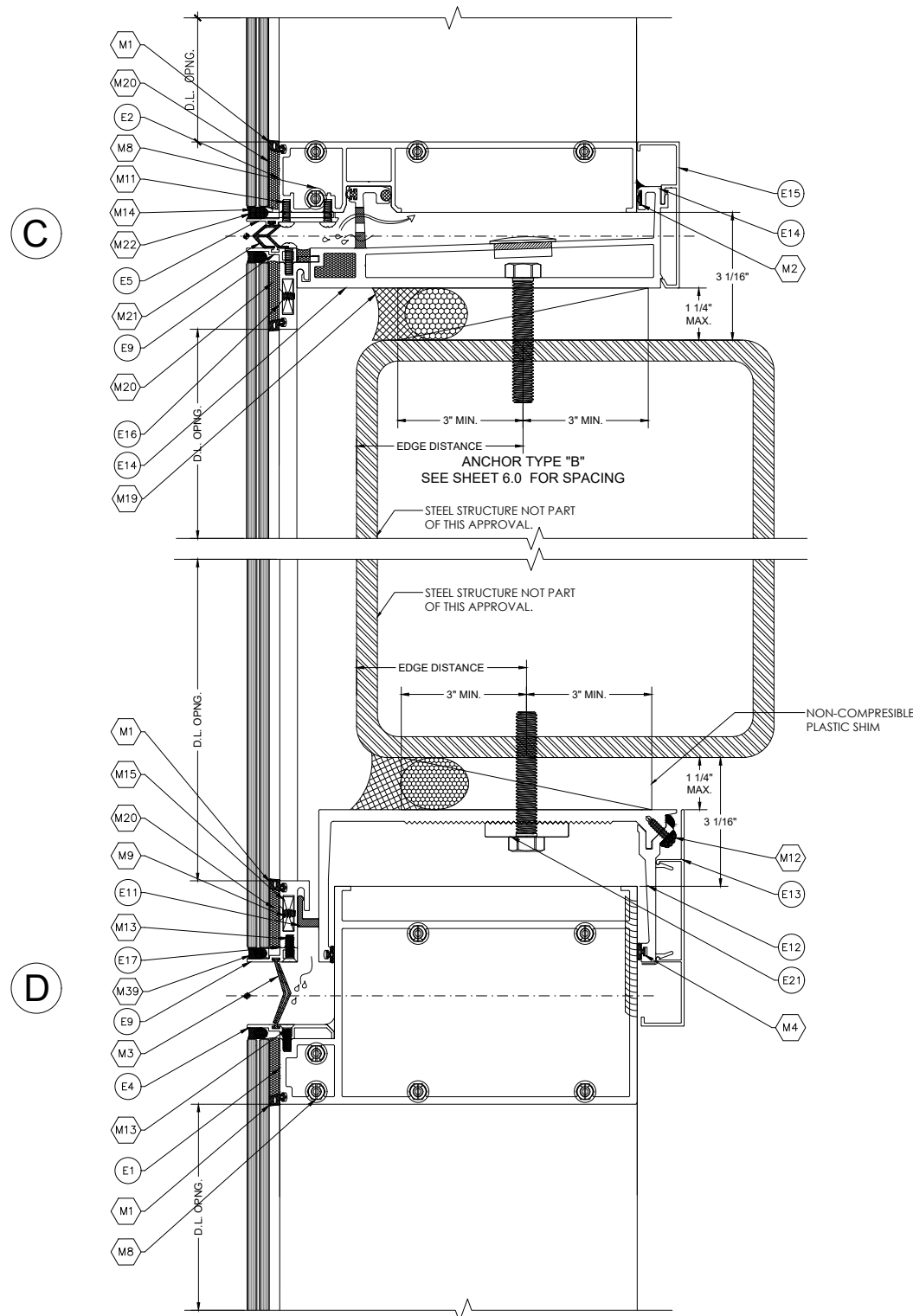
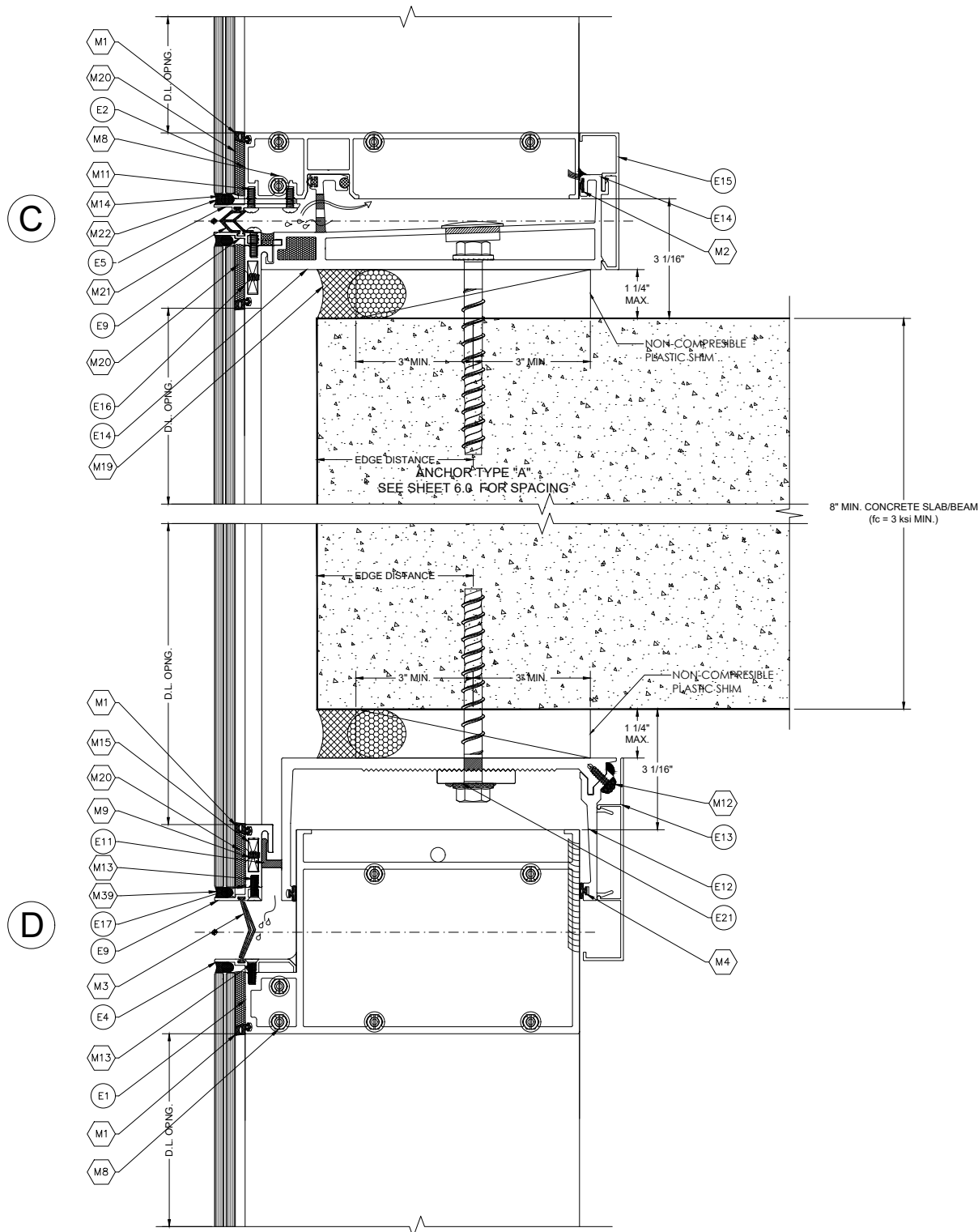
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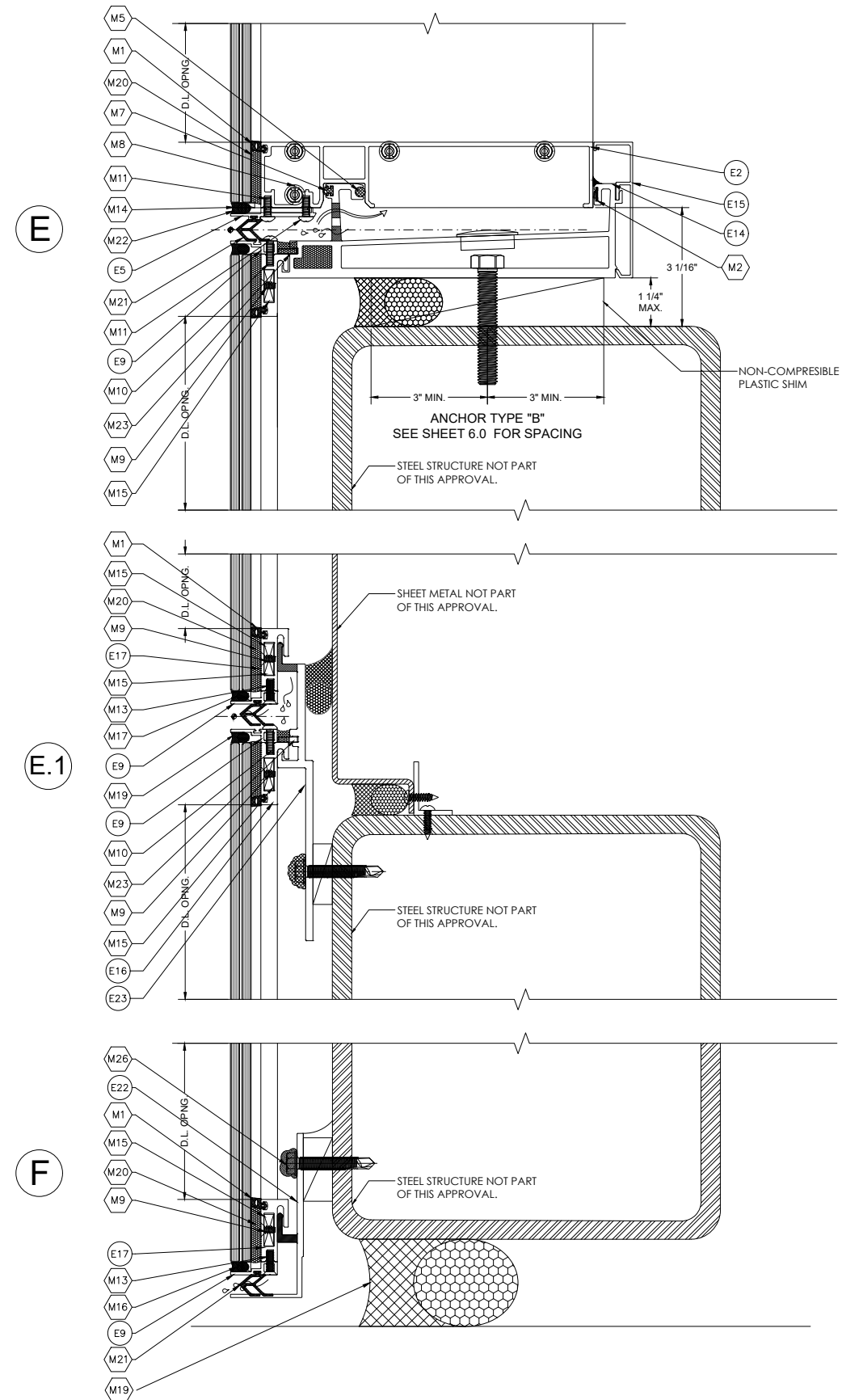
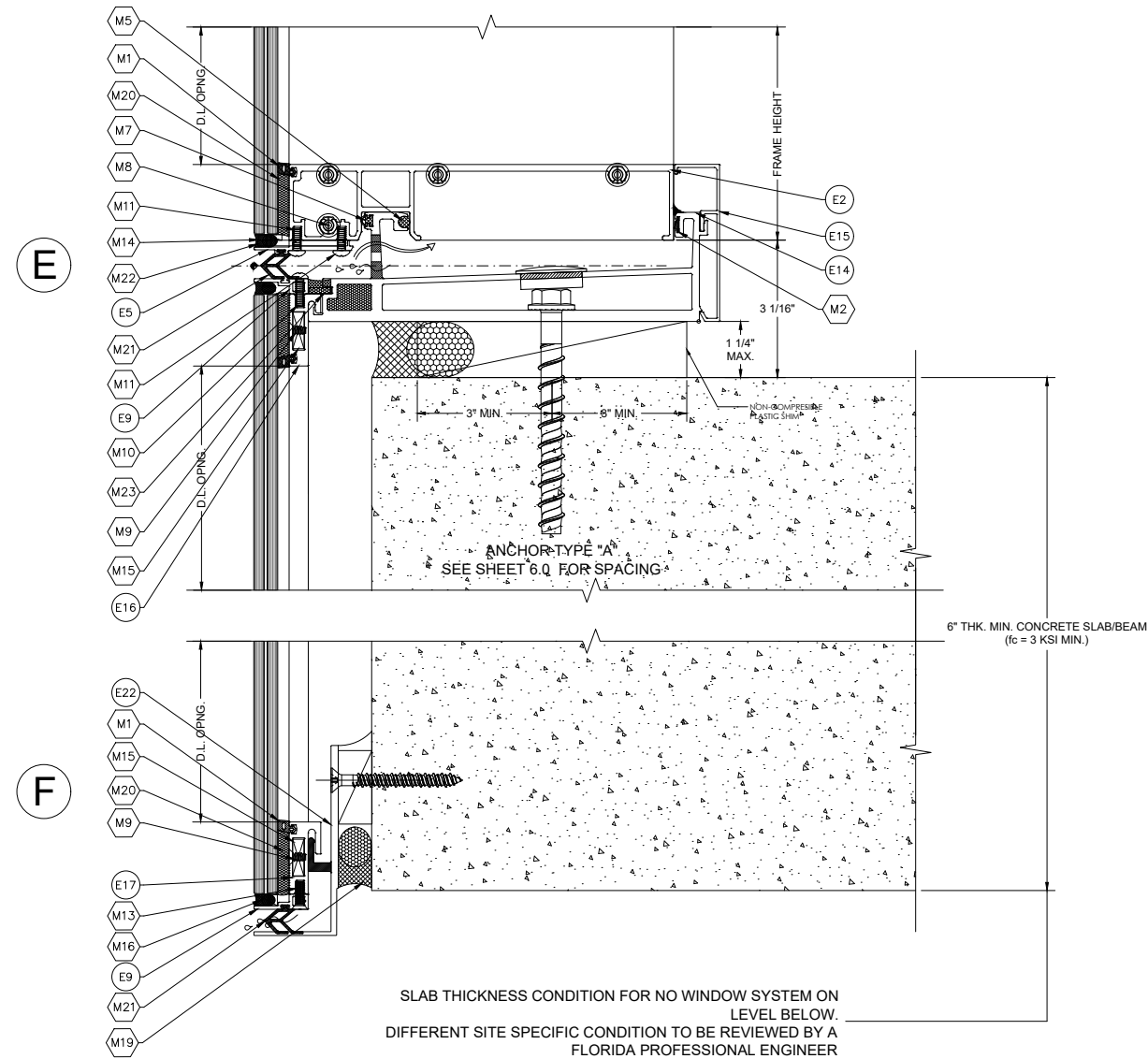
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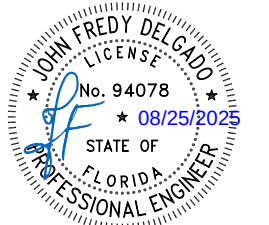
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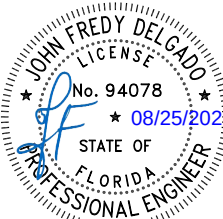
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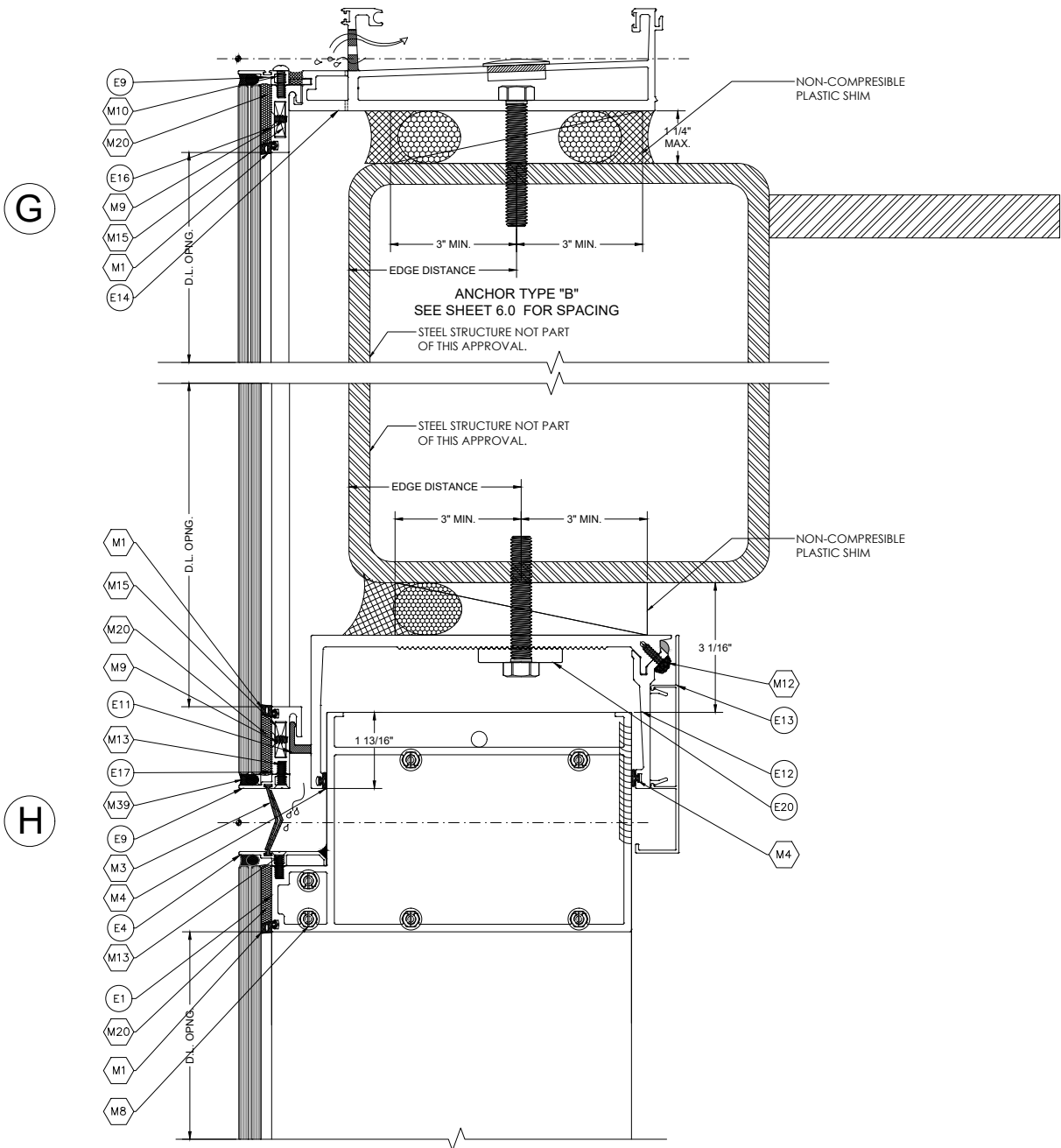
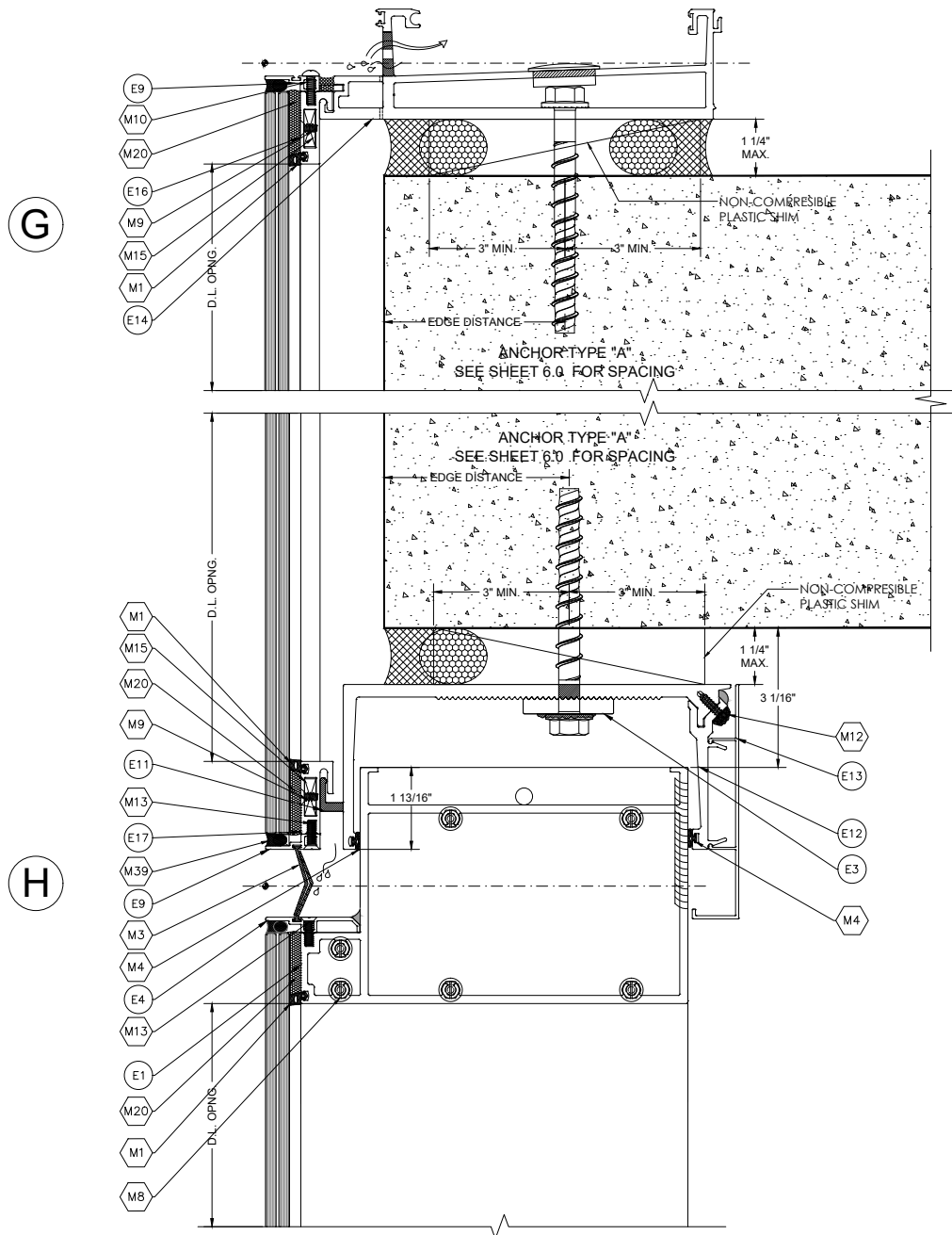
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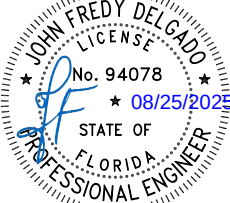
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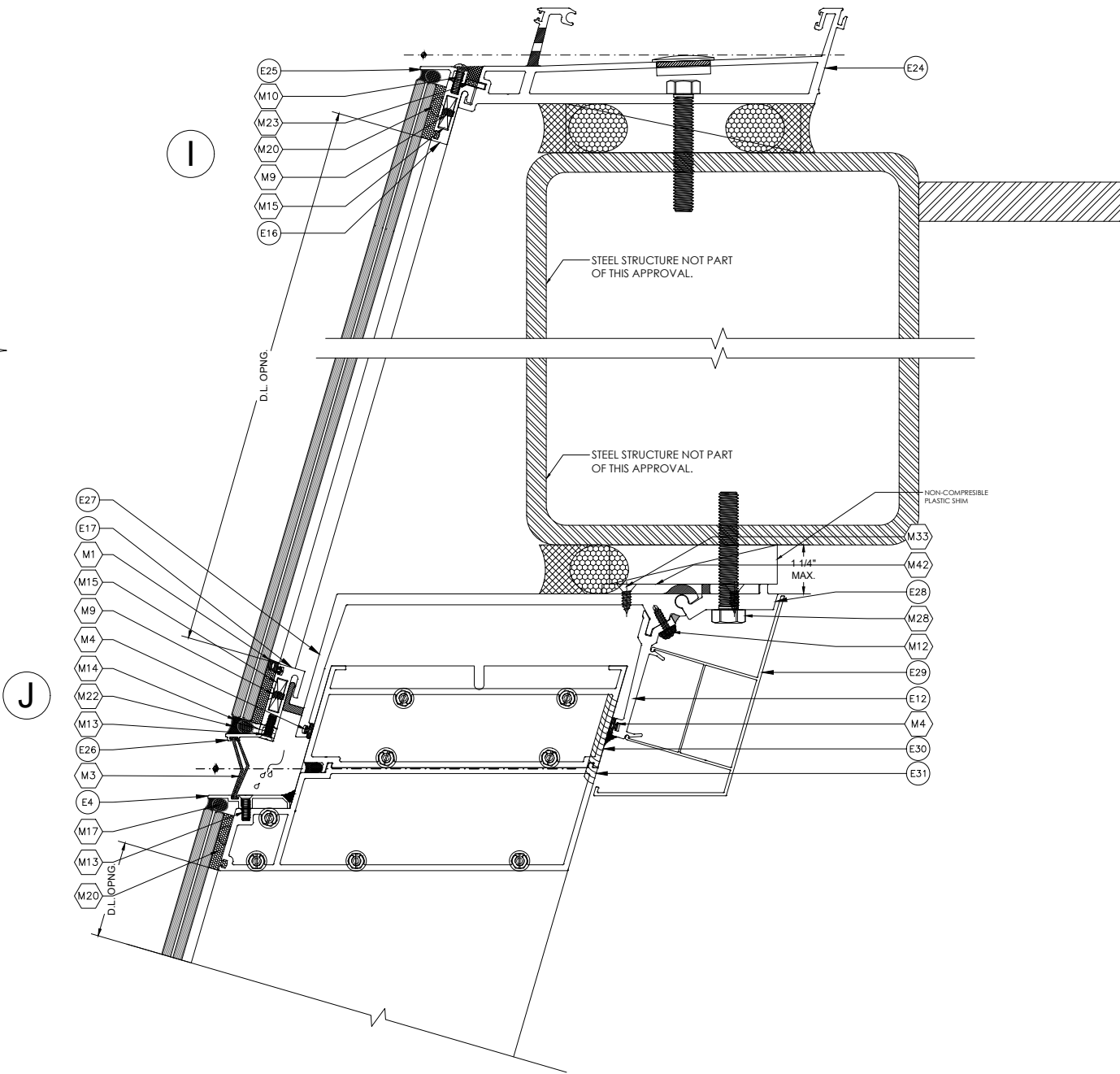
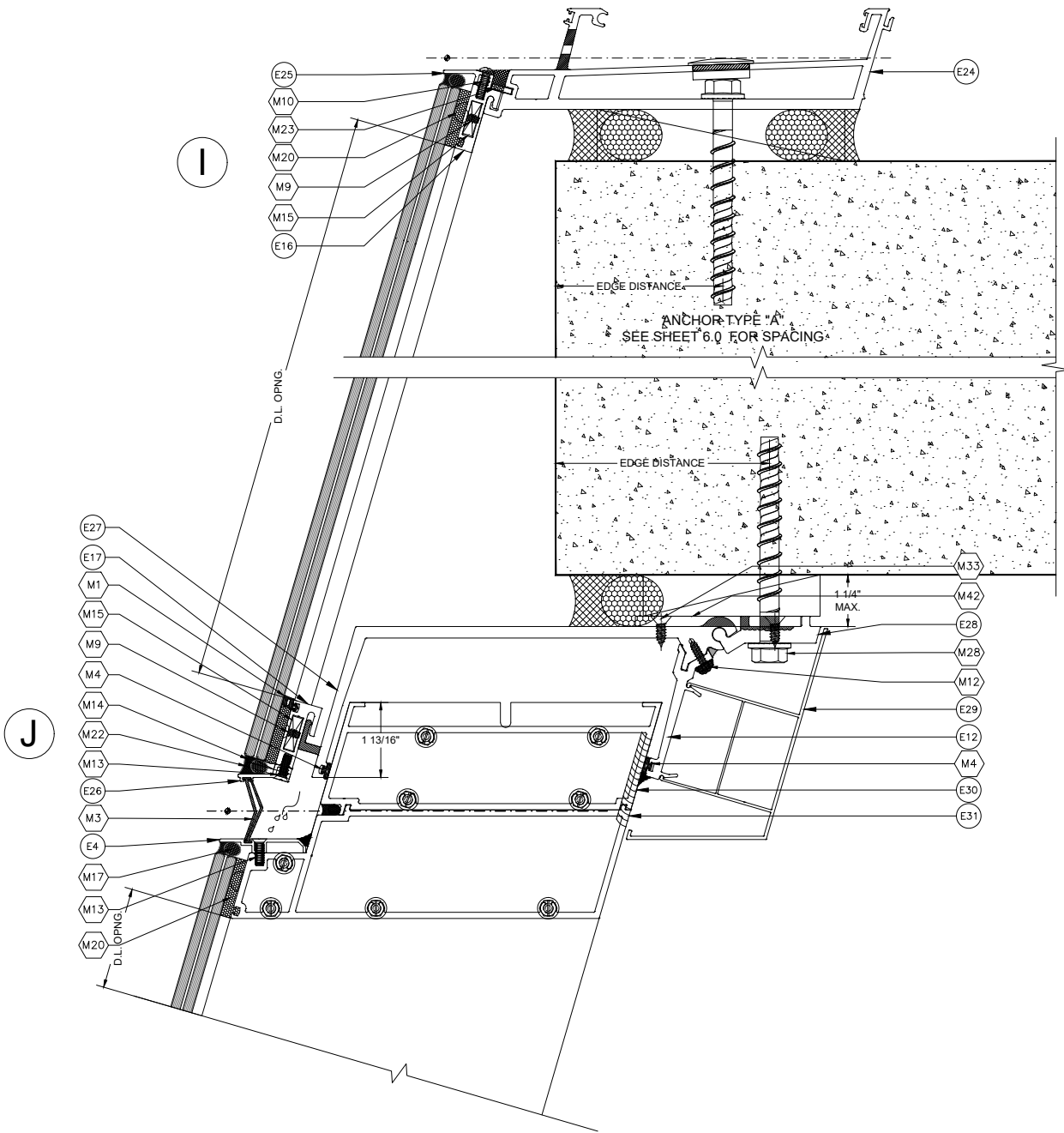
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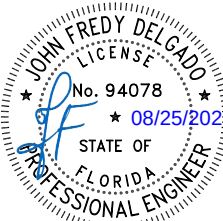
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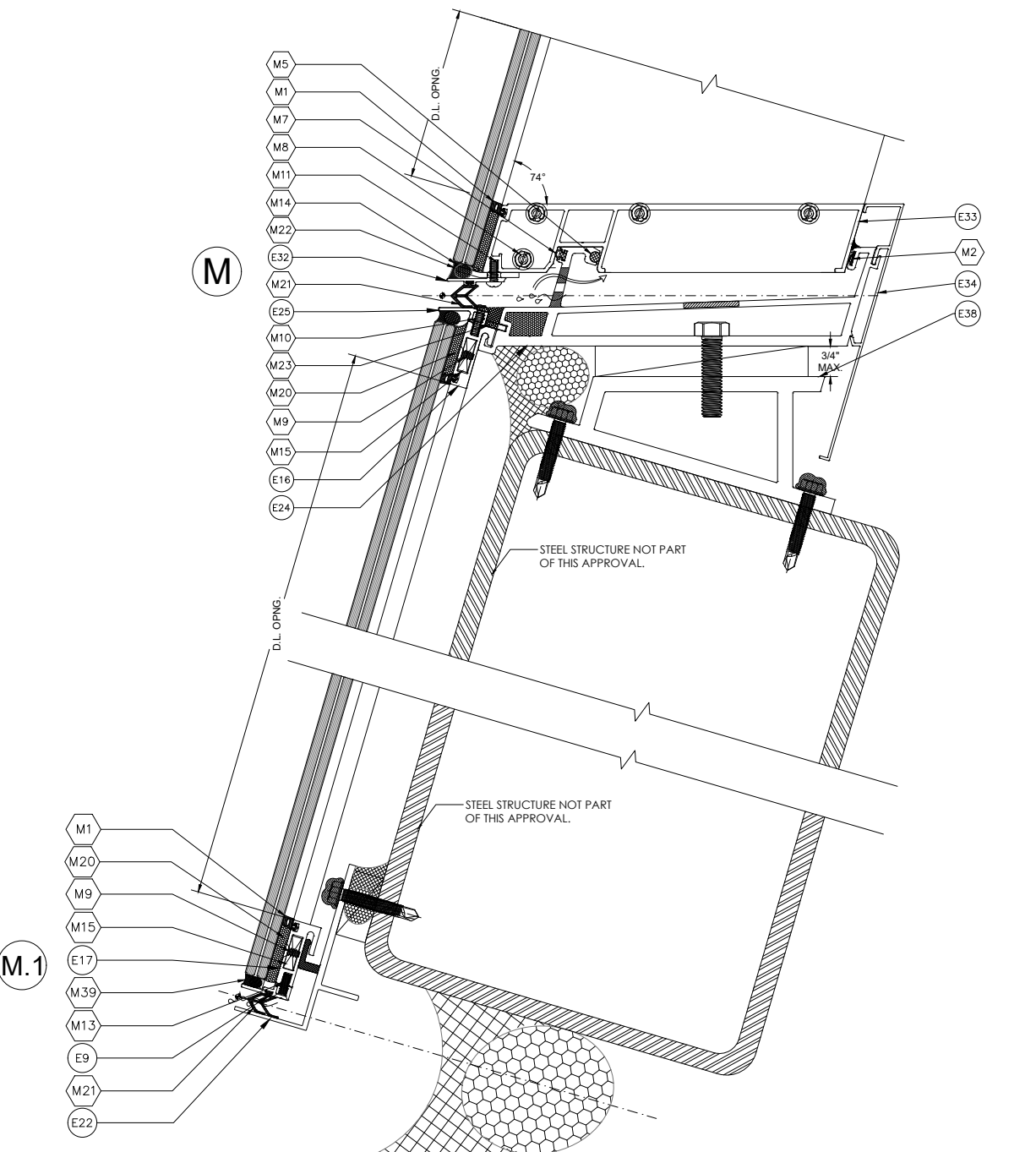
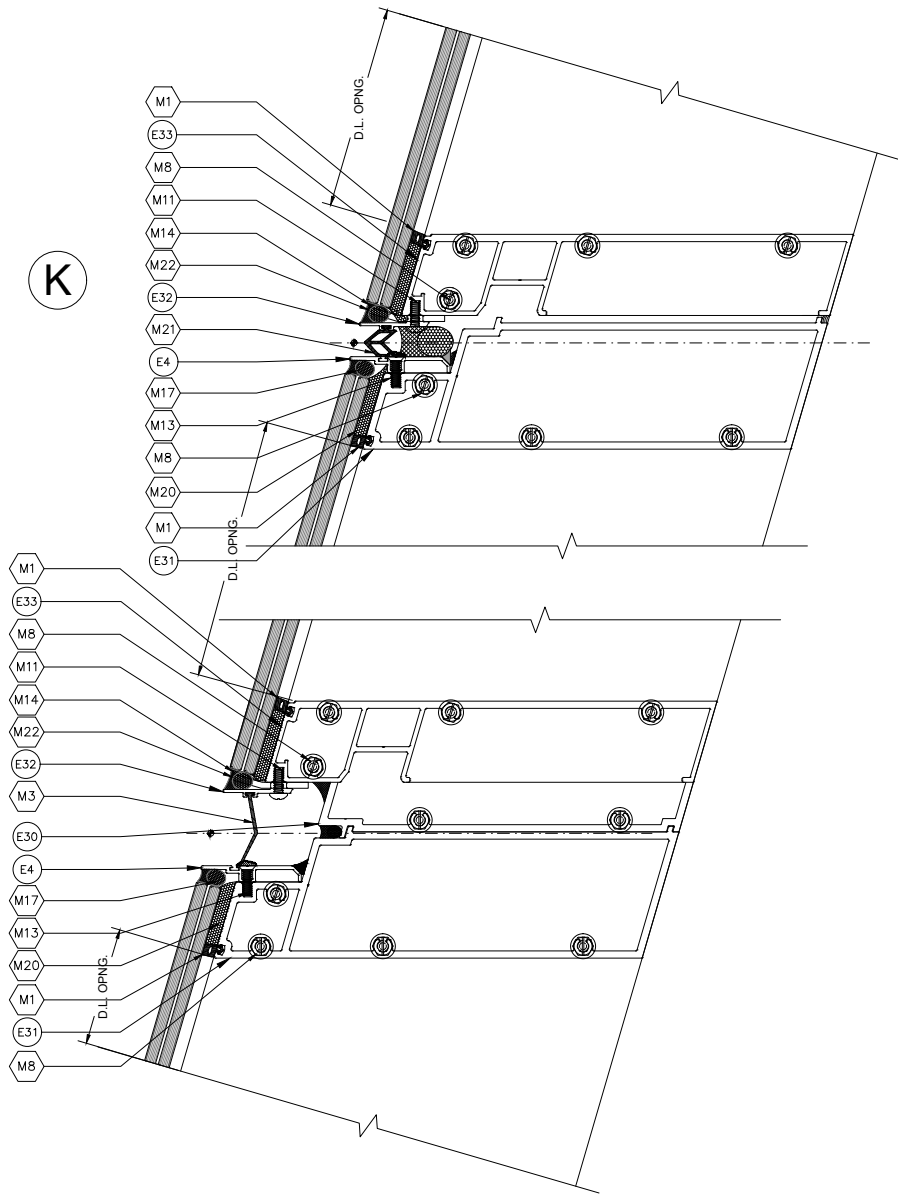
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3" = 1'-0"



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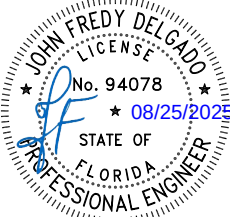
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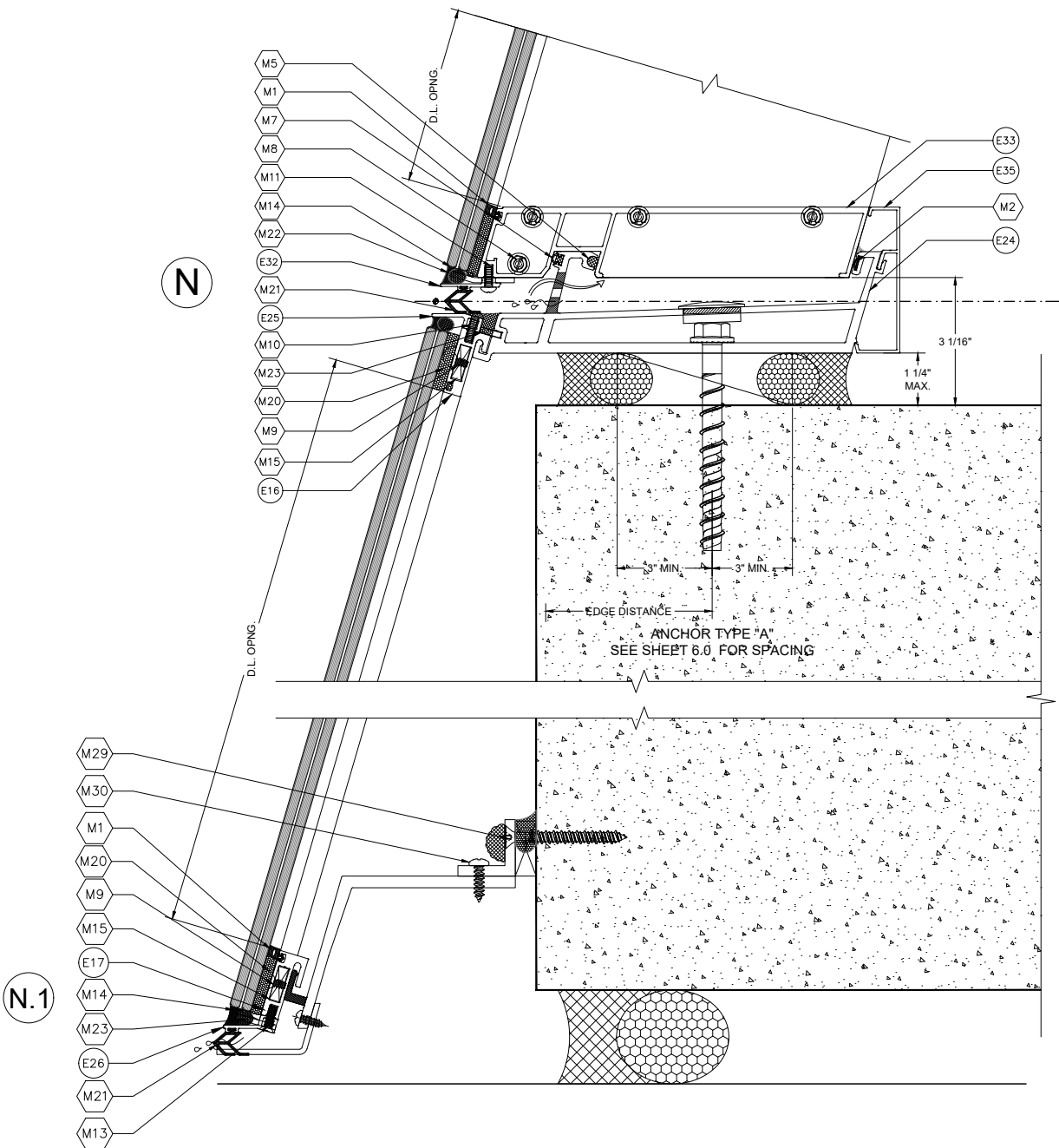
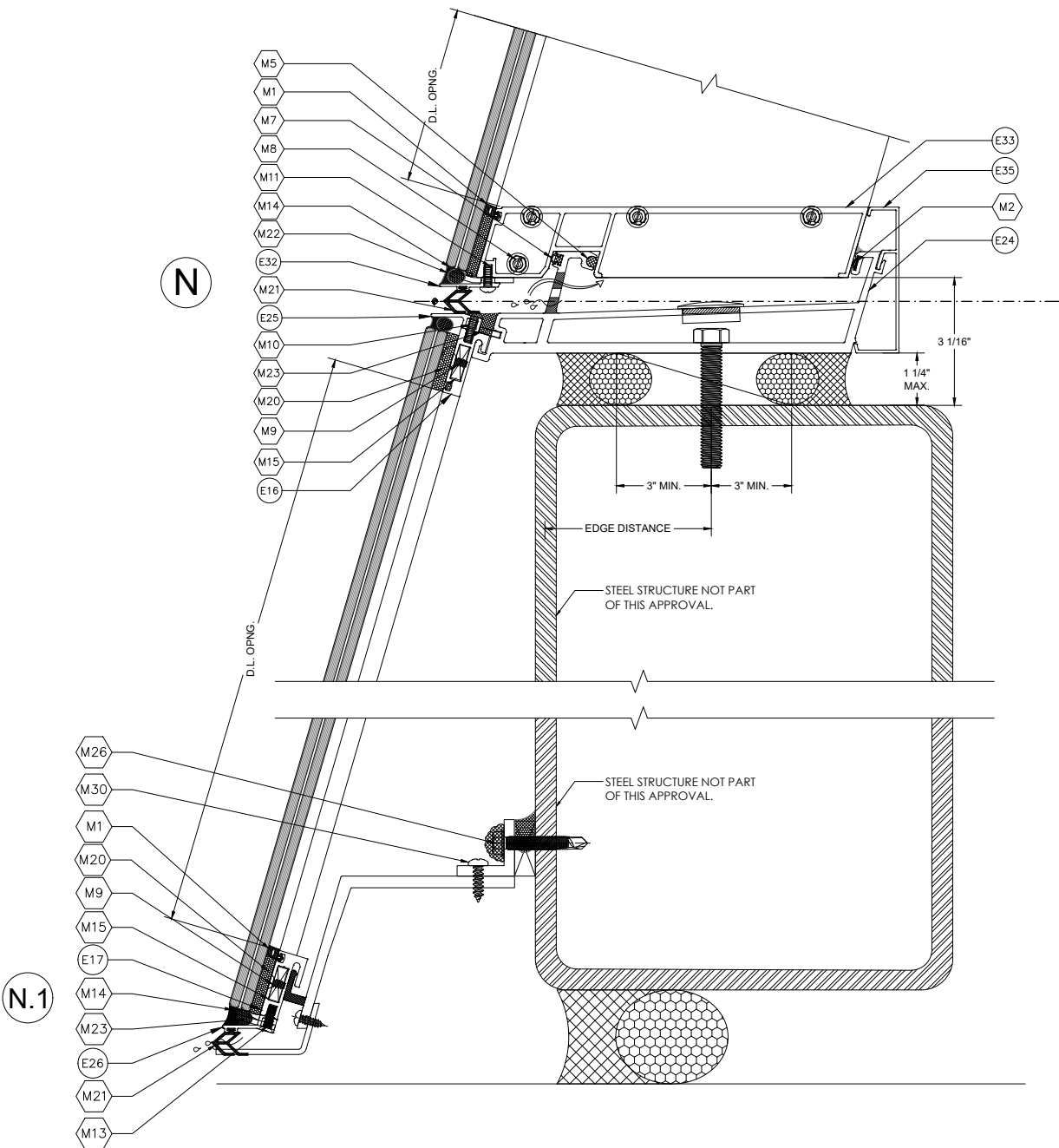
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FL. REG. # 94078

PREPARED BY AC	DRAFTED BY SS & DF	DATE 05/02/2025
DWG NUMBER DT-PA-ESW-004	SCALE 3" = 1'-0"	
PAGE 7.6 OF 8.4		



E.S.
WINDOWS, LLC

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

PROJECT
ES-WA9040
ALUMINUM WINDOW WALL
LARGE MISILE IMPACT

FLORIDA APPROVAL #
FL# 47332.1

SHEET NAME:
SYSTEM
DETAILS

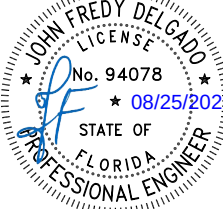
DRAWING REVISION LOG

No.	Date:	Revision:
R1	05/02/2025	UPDATE
R3	08/25/2025	UPDATE

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

PO BOX 1339
DEERFIELD BEACH, FL 33443

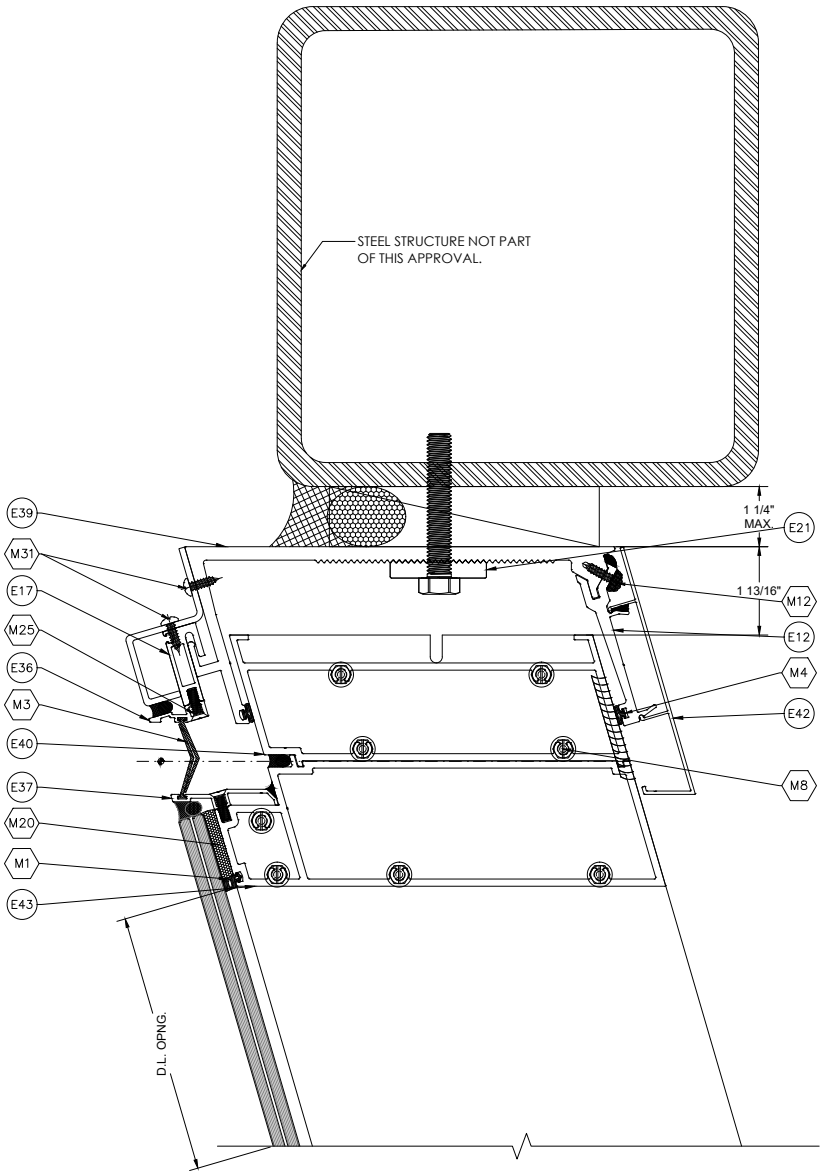
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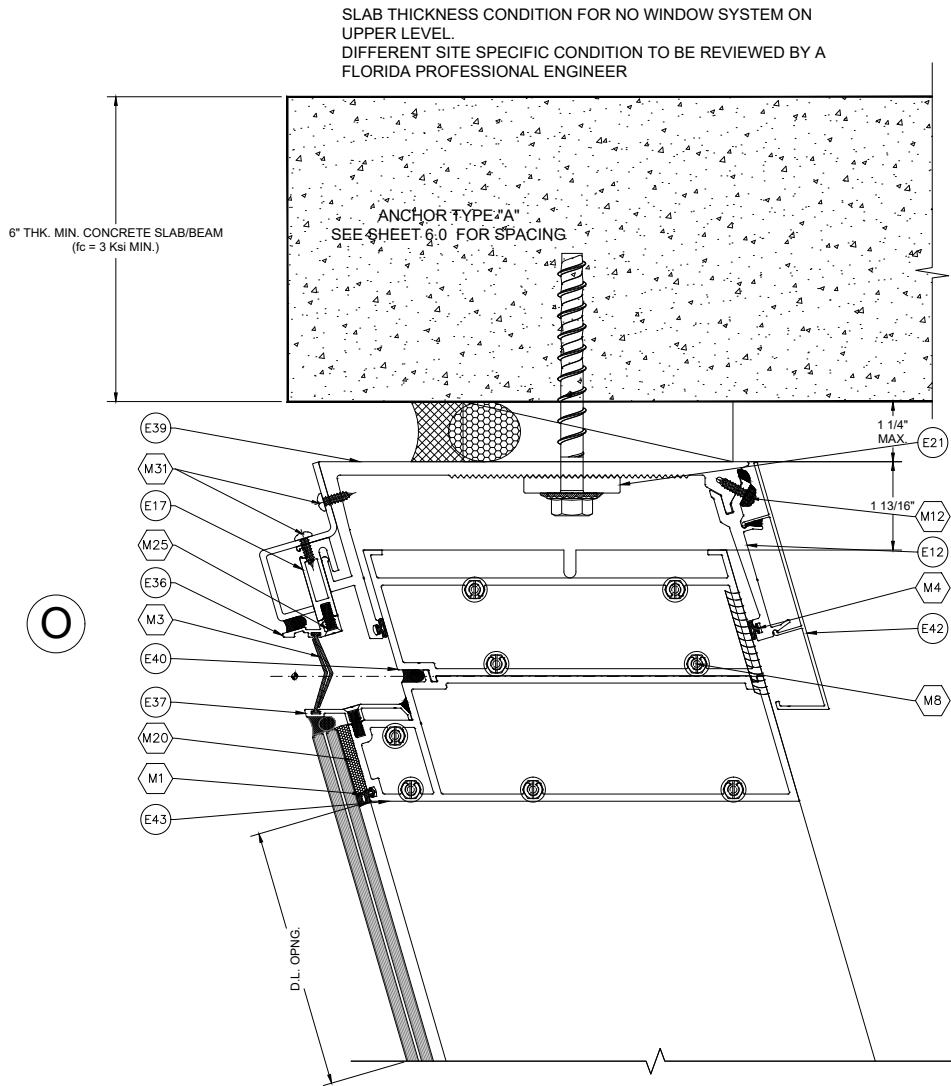
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PAGE 7.7 OF 8.4		

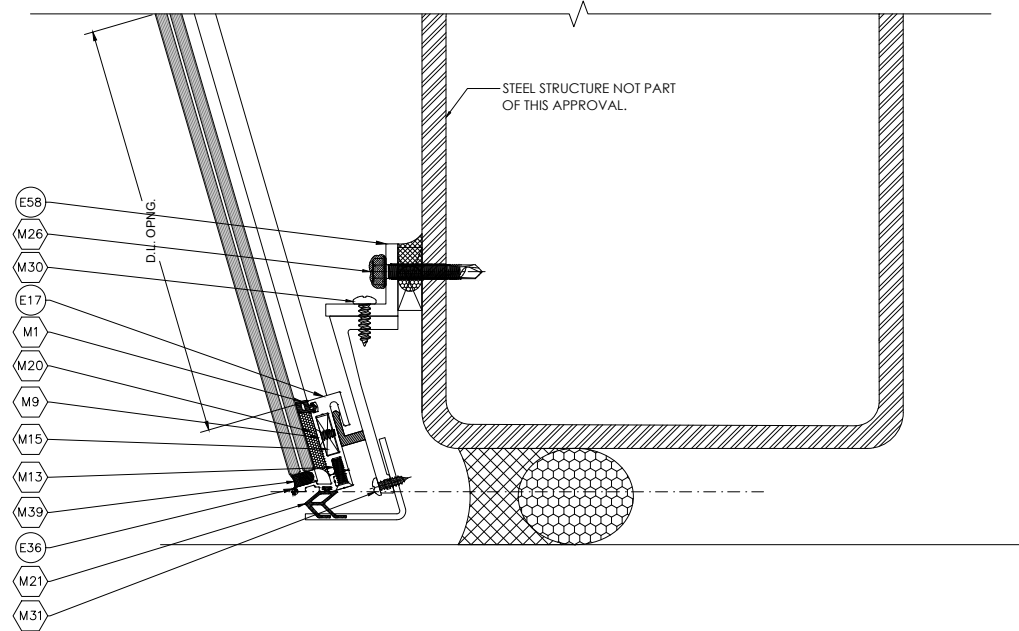
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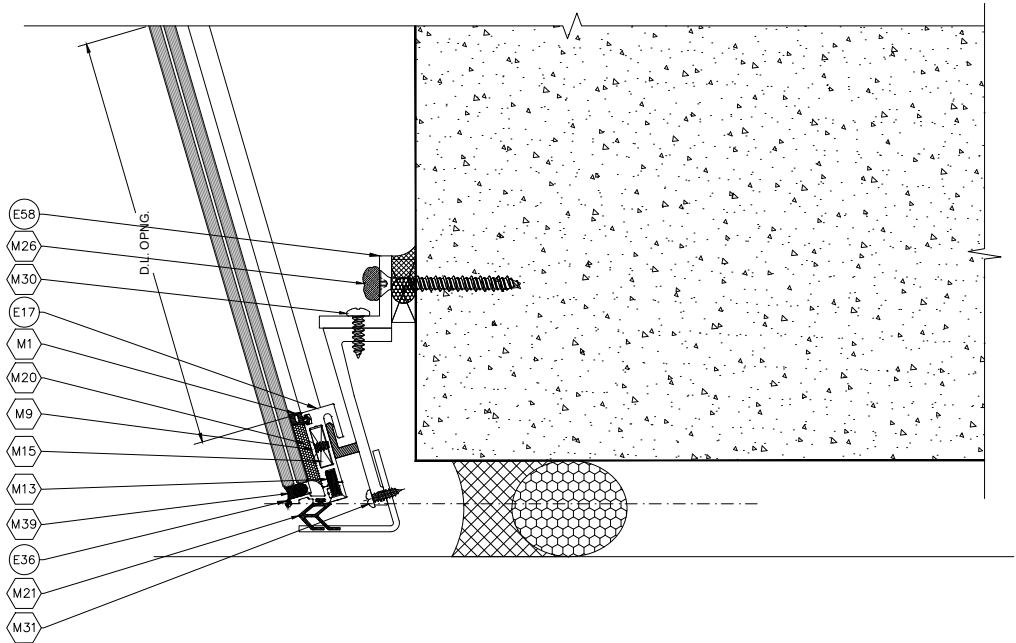
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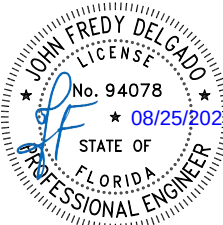
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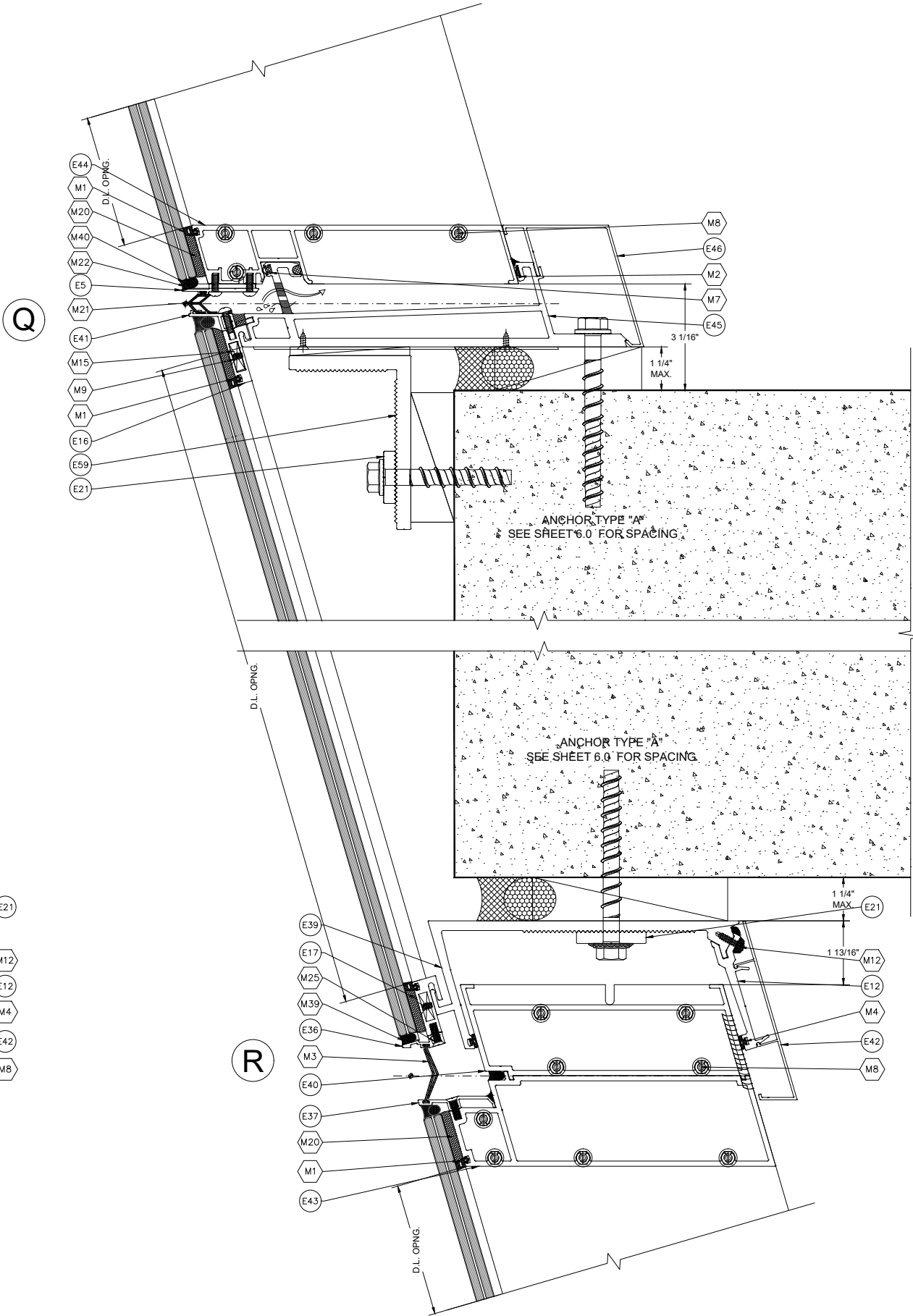
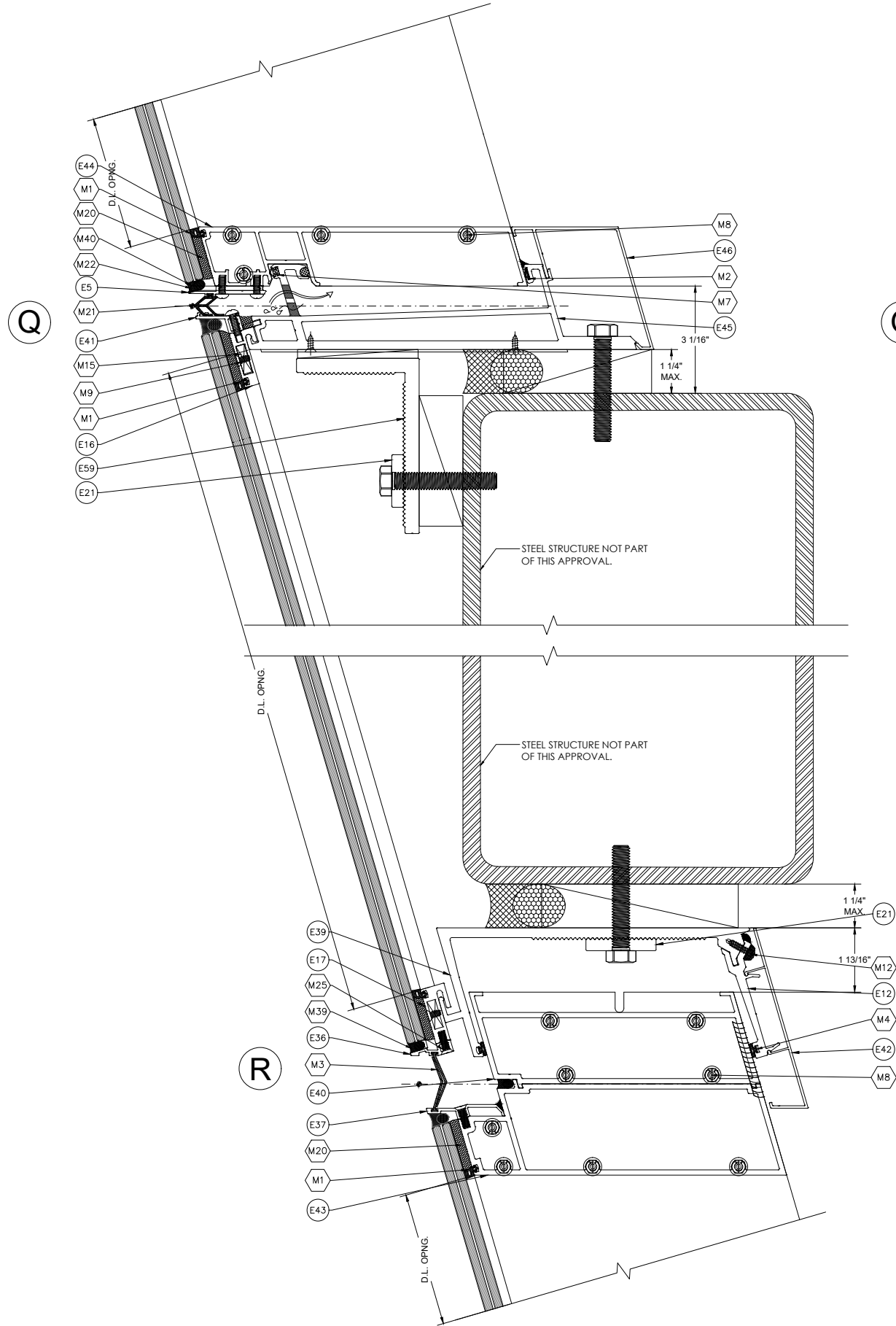
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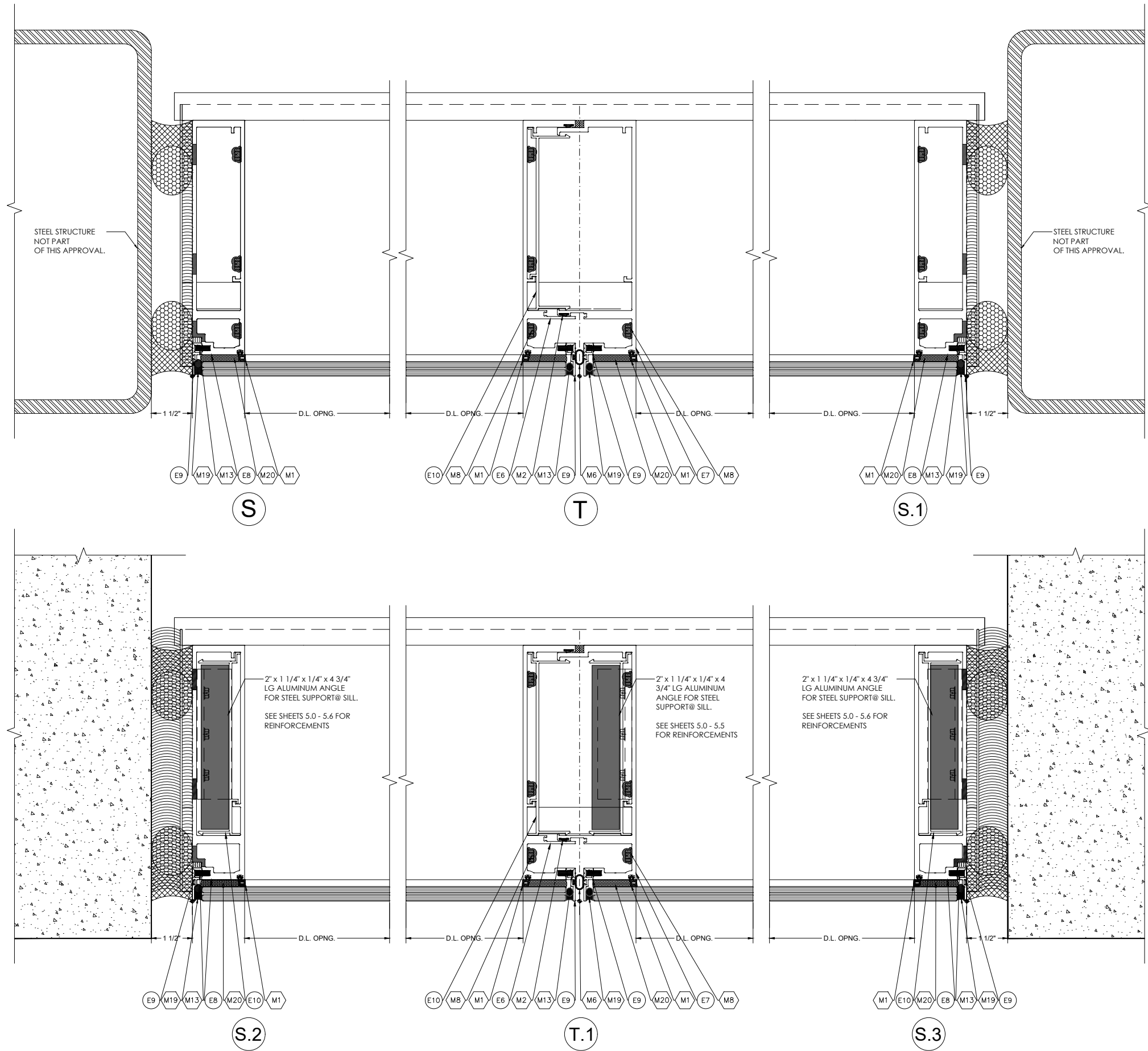
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PAGE 7.8 OF 8.4		





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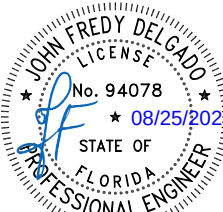
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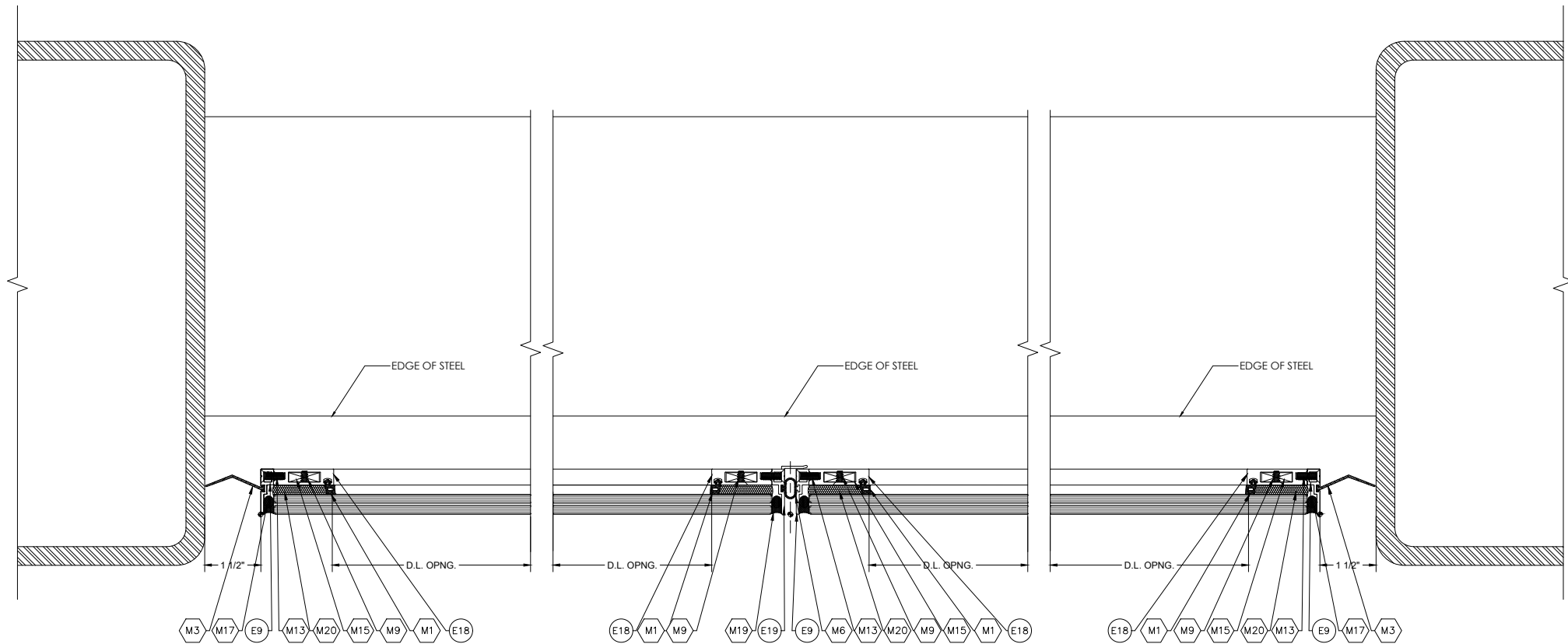
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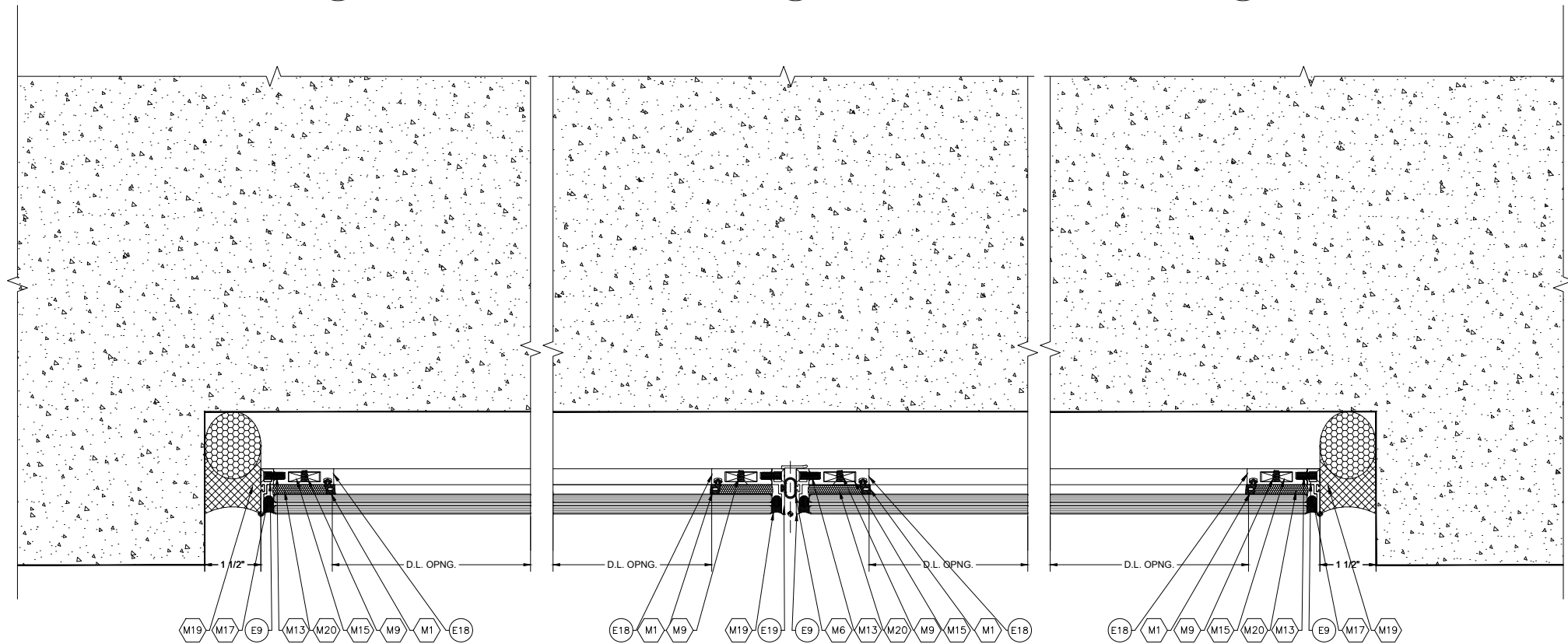
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DWG NUMBER DT-PA-ESW-004	PAGE 7.9 OF 8.4	SCALE 3" = 1'-0"



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E.S.
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ENGINEER:
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CA# 36112

PO BOX 1339
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JOHN FREDY DELGADO
LICENSE
No. 94078
★ 08/25/2025
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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

PREPARED BY AC	DRAFTED BY SS & DF	DATE 05/02/2025
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PAGE 7.10 OF 8.4		

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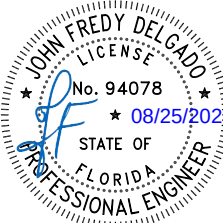
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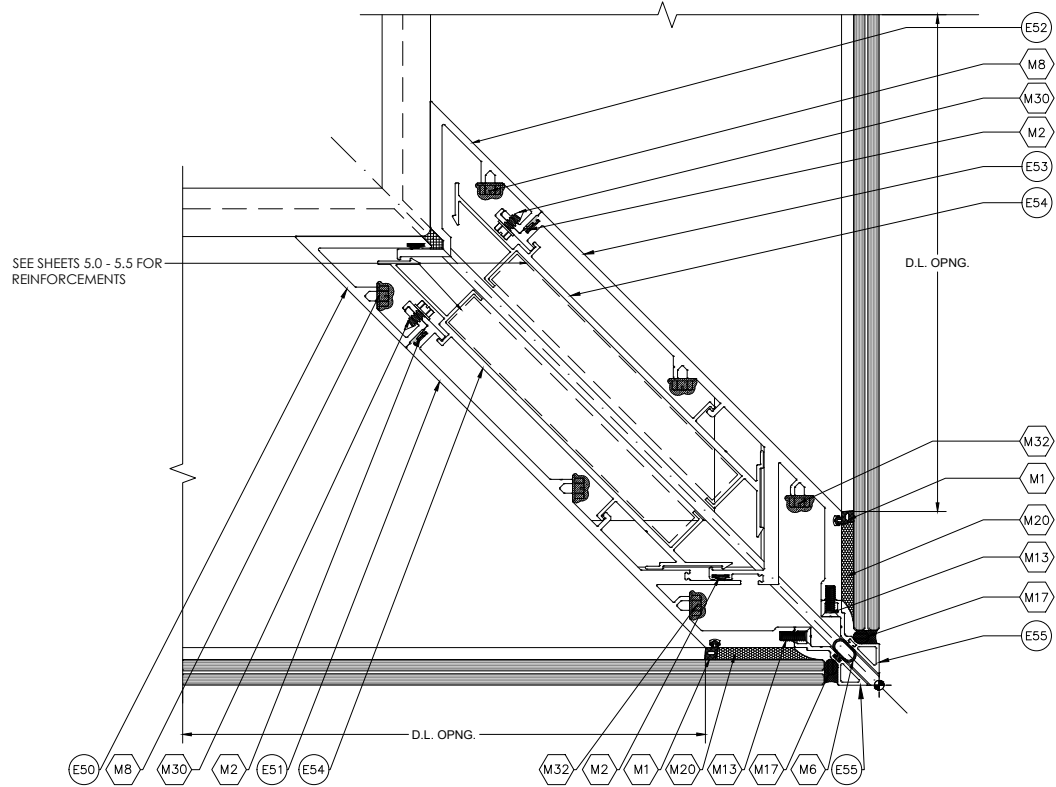
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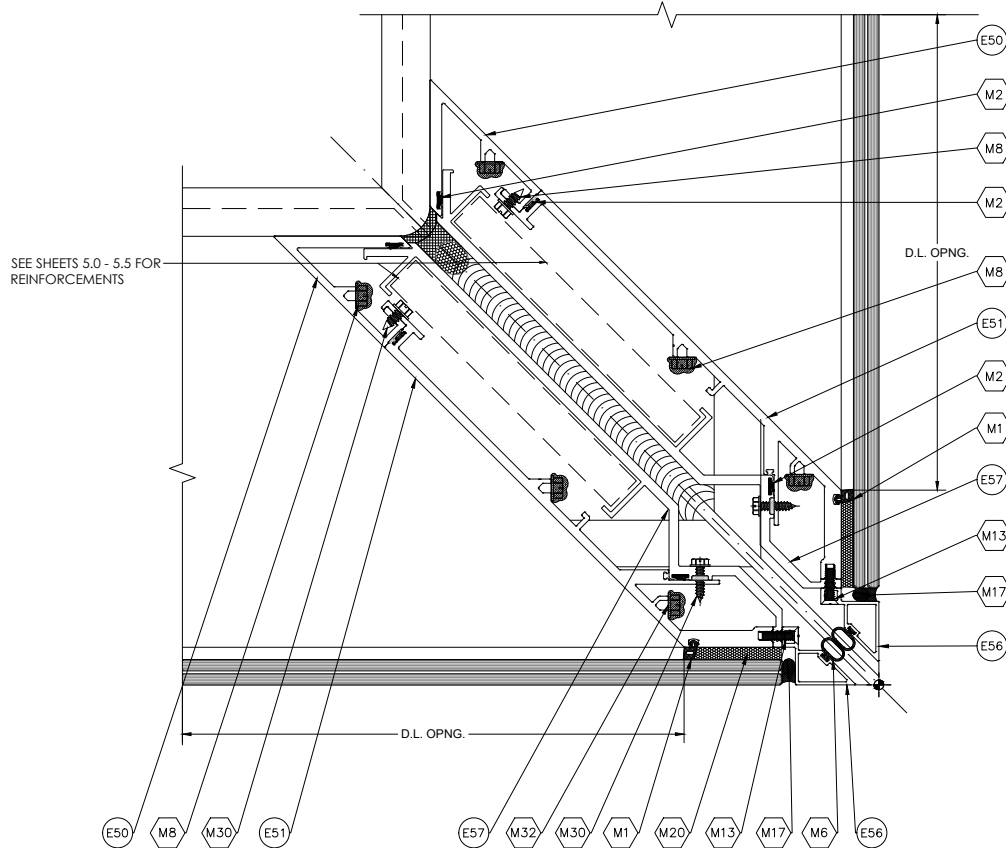


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FL. REG. # 94078

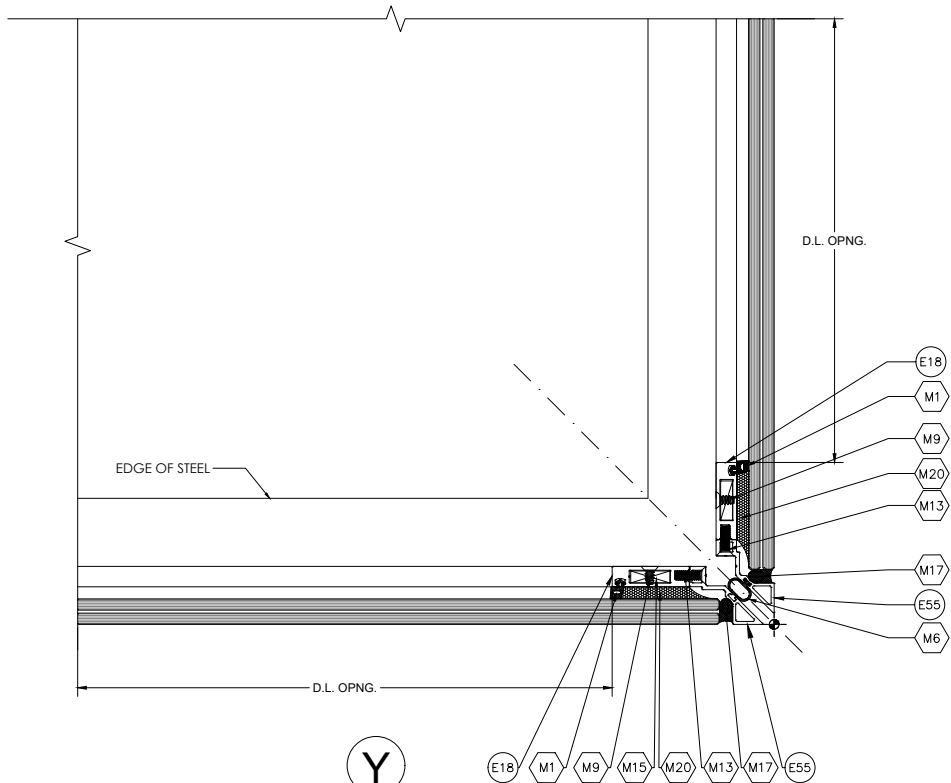
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PAGE 7.11 OF 8.4		



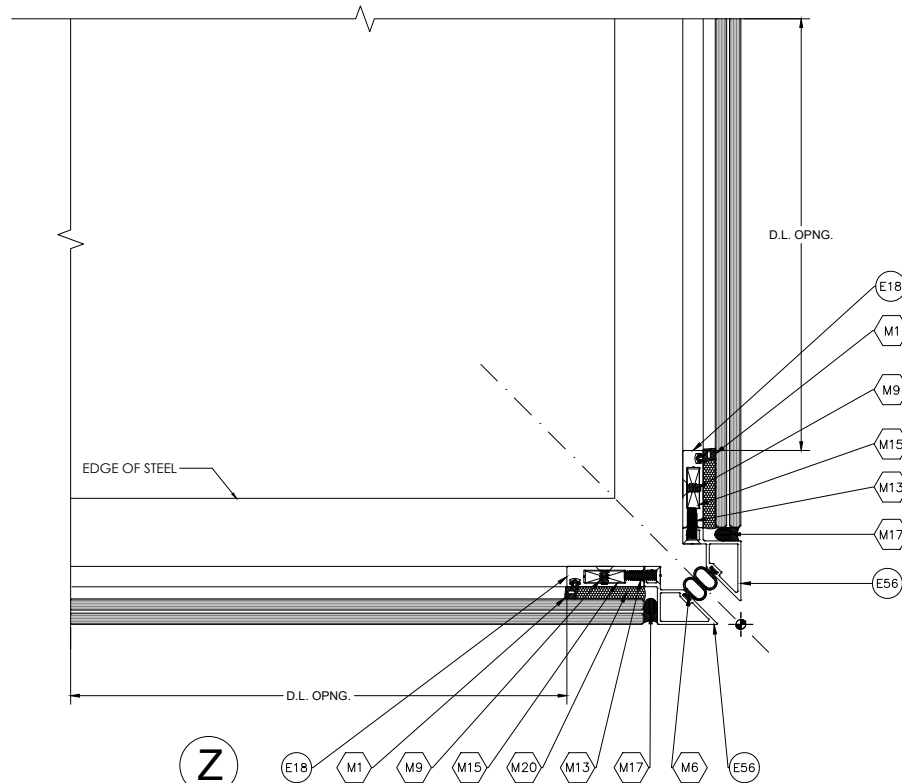
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CODE	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF. / SUPPLIER / REMARKS
E1	ES-WA9040-001	AS REQD.	FRAME HEAD	6005-T5	
E2	ES-WA9040-002	AS REQD.	SILL	6005-T5	
E3		AS REQD.	FRAME SILL ATERNATE	6005-T5	
E4	ES-WA9040-004	AS REQD.	HEAD TRIM	6063-T5	
E5	ES-WA9040-005	AS REQD.	SILL TRIM	6063-T5	
E6	ES-WA9040-006	AS REQD.	FEMALE MULLION	6005-T5	
E7	ES-WA9040-007	AS REQD.	MALE MULLION	6005-T5	
E8	ES-WA9040-008	AS REQD.	JAMB	6005-T5	
E9	ES-WA9040-009	AS REQD.	TRIM	6063-T6	
E10	ES-WA9040-010	AS REQD.	HOOK CLIP	6063-T6	
E11	ES-WA9040-011	AS REQD.	HEAD RECEPTOR	6005-T5	
E12	ES-WA9040-012	AS REQD.	HEAD RECEPTOR STOP	6005-T5	
E13	ES-WA9040-013	AS REQD.	HEAD RECEPTOR COVER	6063-T5	
E14	ES-WA9040-014	AS REQD.	SUBSILL	6005-T5	
E15	ES-WA9040-015	AS REQD.	SUBSILL COVER	6063-T5	
E16	ES-WA9040-016	AS REQD.	SLAB COVER TOP	6063-T6	
E17	ES-WA9040-017	AS REQD.	SLAB COVER BOTTOM	6063-T6	
E18	ES-WA9040-018	AS REQD.	SLAB COVER SIDE	6063-T6	
E19	ES-WA9040-019	AS REQD.	SLAB COVER SIDE TRIM	6063-T6	
E20	ES-WA9040-026	AS REQD.	HEAD RECEPTOR FILLER	6063-T6	
E21	ES-7530-206	AS REQD.	WASHER	6005-T6	
E22	ES-WA9040-059	AS REQD.	BOTTOM SLAB COVER SUPPORT	6063-T6	
E23	ES-WA9040-052	AS REQD.	SLAB COVER ADAPTER	6063-T6	
E24	ES-WA9040-035	AS REQD.	SLANTEDSUBSILL	6005-T5	
E25	ES-WA9040-040	AS REQD.	SLANTEDSLAB COVER TRIM	6063-T6	
E26	ES-WA9040-063	AS REQD.	SLANTEDSLAB COVER TRIM	6063-T6	
E27	ES-WA9040-034	AS REQD.	SLANTEDHEAD RECEPTOR	6005-T5	
E28	ES-WA9040-061	AS REQD.	SLANTEDRECEPTOR BACK	6005-T5	
E29	ES-WA9040-036	AS REQD.	SLANTEDHEAD RECEPTOR COVER	6063-T5	
E30	ES-WA9040-029	AS REQD.	SLANTEDHEAD TOP	6005-T5	
E31	ES-WA9040-030	AS REQD.	SLANTEDHEAD BOTTOM	6005-T5	
E32	ES-WA9040-033	AS REQD.	SLANTEDSILL TRIM	6063-T6	
E33	ES-WA9040-031	AS REQD.	SLANTEDSILL	6005-T5	
E34	ES-WA9040-062	AS REQD.	SLANTEDSUBSILL BOTTOM COVER	6063-T6	
E35	ES-WA9040-037	AS REQD.	SLANTEDSUBSILL COVER	6063-T5	
E36	ES-WA9040-051	AS REQD.	SLANTEDSLAB COVER TRIM	6063-T6	
E37	ES-WA9040-045	AS REQD.	SLANTEDHEAD TRIM	6063-T6	
E38	ES-WA9040-032	AS REQD.	BOTTOM SUBSILL WEDGE	6063-T6	
E39	ES-WA9040-046	AS REQD.	SLANTEDHEAD RECEPTOR	6005-T5	
E40	ES-WA9040-042	AS REQD.	SLANTEDHEAD TOP	6063-T6	
E41	ES-WA9040-041	AS REQD.	SLANTEDSLAB COVER TRIM	6063-T6	
E42	ES-WA9040-047	AS REQD.	SLANTEDHEAD RECEPTOR COVER	6063-T6	
E43	ES-WA9040-043	AS REQD.	SLANTEDHEAD BOTTOM	6005-T5	
E44	ES-WA9040-044	AS REQD.	SLANTEDSILL	6005-T5	
E45	ES-WA9040-048	AS REQD.	SLANTEDSUBSILL	6005-T5	
E46	ES-WA9040-049	AS REQD.	SLANTEDSUBSILL COVER	6063-T5	
E47	ES-WA9040-068	AS REQD.	FEMALE MULLION	6005-T5	
E48	ES-WA9040-069	AS REQD.	MALE MULLION	6005-T5	
E49	ES-WA9040-070	AS REQD.	WIDE HOOK CLIP	6063-T6	
E50	ES-WA9040-021	AS REQD.	FEMALE CORNER BACK	6005-T5	
E51	ES-WA9040-020	AS REQD.	FEMALE CORNER FRONT	6005-T5	
E52	ES-WA9040-023	AS REQD.	MALE CORNER BACK	6005-T5	
E53	ES-WA9040-022	AS REQD.	MALE CORNER FRONT	6005-T5	
E54	ES-WA9040-025	AS REQD.	CORNER CLIP	6063-T5	
E55	ES-WA9040-064	AS REQD.	CORNER TRIM	6063-T6	
E56	ES-WA9040-024	AS REQD.	CORNER TRIM	6063-T6	
E57	ES-WA9040-057	AS REQD.	CORNER MULLION FILLER	6005-T5	
E58	ALU-A-021	AS REQD.	ALUMINUM ANGLE	6063-T6	
E59	ES-U3525-215	AS REQD.	SLAB ANCHOR	6005-T5	

CODE	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF. / SUPPLIER / REMARKS
M1	ES-UN625-G02	AS REQD.	GLAZING GASKET	SILICONE	DUROMETER ±70 SHORE A
M2	ES-WW38-G06	AS REQD.	AIR SEAL GASKET	EPDM	DUROMETER ±70 SHORE A
M3	ES-WA9040-G01	AS REQD.	WATER DEFLECTOR	SILICONE	DUROMETER ±70 SHORE A
M4	ES-5008S	AS REQD.	BULB VYNIL	SILICONE	DUROMETER ±70 SHORE A
M5	ES-W625-N01A	AS REQD.	1/4" DIA NYLON ROD 24"	SILICONE	DUROMETER ±60 SHORE A
M6	ES-7530-G05	AS REQD.	WATER DEFLECTOR @ VERTICAL JOINT	SILICONE	DUROMETER ±60 SHORE A
M7	ES-W625-G01A	AS REQD.	AIR SEAL @ STACK CAPTURED / SSG	EPDM	DUROMETER ±65 SHORE A
M8	#1/4" x 1 1/2" HWH	AS REQD.	ASSEMBLY SCREW	STAINLESS STEEL, SERIES 300	
M9	#10 x 3/8" FH	AS REQD.	SLAB COVER ASSEMBLY SCREW	STAINLESS STEEL, SERIES 300	
M10	#10-24 x 5/8" PH	AS REQD.	TRIM SCREW	STAINLESS STEEL, SERIES 300	
M11	#10-24 x 1/2" PH	AS REQD.	TRIM SCREW	STAINLESS STEEL, SERIES 300	
M12	#10 x 5/8" HWH	AS REQD.	ASSEMBLY SCREW	STAINLESS STEEL, SERIES 300	
M13	#10-24 x 5/8" FH	AS REQD.	TRIM SCREW	STAINLESS STEEL, SERIES 300	
M14	80-372A S	AS REQD.	SETTING BLOCK	SILICONE	
M15	13/16" x 1/4"	AS REQD.	SLAB COVER CORNER KEY	ALUMINUM	
M16	Ø 1"	AS REQD.	BACKER ROD	FILTENE	
M17	Ø 3/8"	AS REQD.	BACKER ROD	FILTENE	
M18	123 SEAL	AS REQD.	SILICONE SPLICE	SILICONE	
M19	DS-795	AS REQD.	SILICONE	SILICONE	
M20	DS-983	AS REQD.	SILICONE	SILICONE	
M21	ES-7530-G04 A TP+PPV	AS REQD.	WATER DEFLECTOR	SILICONE	
M22	ALU-P-002	AS REQD.	PLATE 2" x 1/8"	STEEL (A36 MIN. FU=58ksi)	
M23	ALU-P-003	AS REQD.	PLATE 1/2" X 1/8"	STEEL (A36 MIN. FU=58ksi)	
M24	8 * 3/8 FH	AS REQD.	SLAB COVER	STAINLESS STEEL, SERIES 300	
M25	#12" X 1" FH	AS REQD.	HEAD RECEPTOR SCREW	STAINLESS STEEL, SERIES 300	
M26	5/16 DEWALT DRIL-FLEX AT 12" O.C.	AS REQD.	SLAB COVER SUPPORT	CARBON STEEL	
M27	#1/2 HWH SELF TAPPING	AS REQD.	SLAB COVER SUPPORT	CARBON STEEL	
M28	1/2" - 13 X 3" BOLT	AS REQD.	HEAD RECEPTOR	CARBON, SAE GRADE 5	
M29	5/16" DEWALT ULTRA CON	AS REQD.	HEAD RECEPTOR	CARBON STEEL	
M30	#14 X 3/4" HWH	AS REQD.	SLAB COVER SUPPORT	STAINLESS STEEL, SERIES 300	
M31	#10 X 5/8" PH	AS REQD.	SCREW FOR BRAKE METAL FILLER	STAINLESS STEEL, SERIES 300	
M32	#10 x 3/4" HWH	AS REQD.	CORNER MULLION FILLER	STAINLESS STEEL, SERIES 300	
M33	STEEL REINFORCEMENT	AS REQD.	1/2"x6" FULL LENGTH	STEEL (A36 MIN. FU=58ksi)	
M34	STEEL REINFORCEMENT	AS REQD.	4"x1/4" FULL LENGTH	STEEL (A36 MIN. FU=58ksi)	
M35	STEEL REINFORCEMENT	AS REQD.	1-1/2"x6" FULL LENGTH	STEEL (A36 MIN. FU=58ksi)	
M36	STEEL REINFORCEMENT	AS REQD.	1-1/4"x6" FULL LENGTH	STEEL (A36 MIN. FU=58ksi)	
M37	STEEL REINFORCEMENT	AS REQD.	2-1/2"x6" FULL LENGTH	STEEL (A36 MIN. FU=58ksi)	
M38	STEEL REINFORCEMENT	AS REQD.	3/4"x6" FULL LENGTH	STEEL (A36 MIN. FU=58ksi)	
M39	80-372A X	AS REQD.	1/4" THK. SETTING BLOCK	SILICONE	
M40	80-372A X	AS REQD.	WEDGE SETTING BLOCK	SILICONE	
M41	ALU-P-004	AS REQD.	PLATE 1 1/4" X 1/8"	STEEL	
M42	ALU-P-005	AS REQD.	PLATE 4" X 1/4"	STEEL (A36 MIN. FU=58ksi)	

SEALANTS

ALL FRAMES, CORNER, JOINTS, MULLION SEAMS AND PERIMETER OF GLAZING BEAD TO FRAME SEALED WITH SILICONE SEALANT.

E.S.
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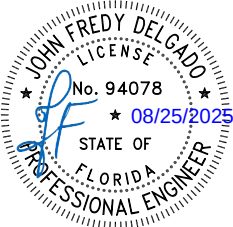
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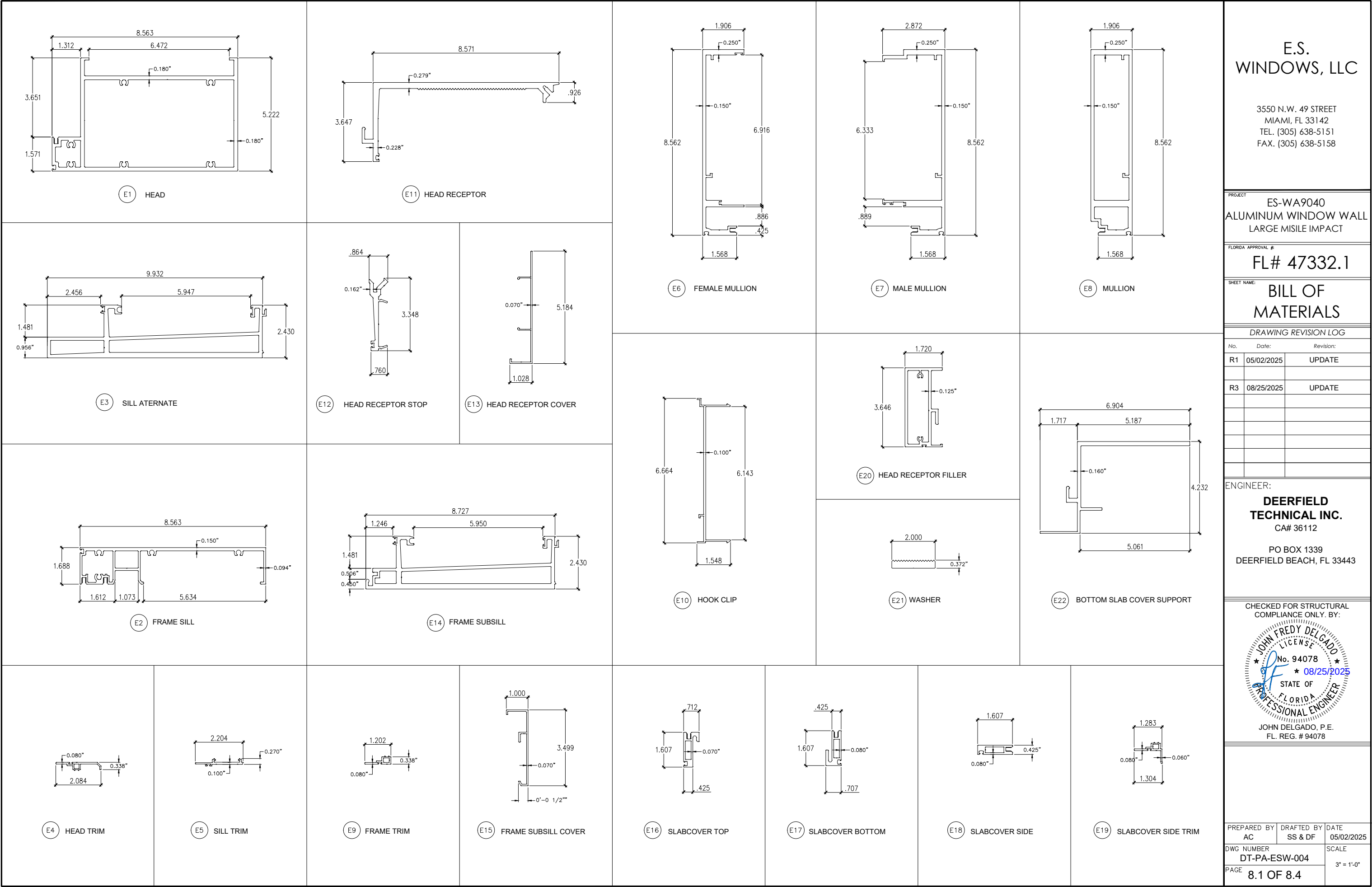
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PAGE 8.0 OF 8.4		



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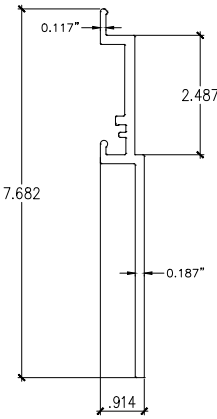
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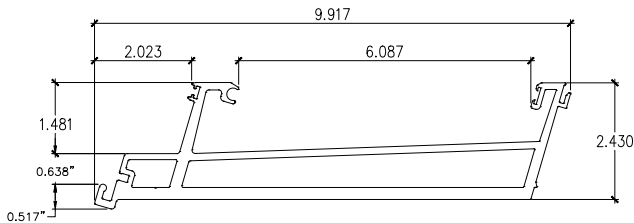
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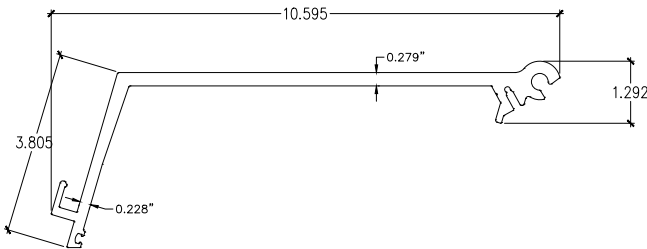
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PAGE 8.1 OF 8.4		



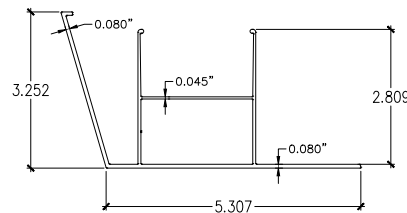
E23 SLAB COVER ADAPTER



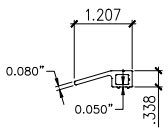
E24 SLANTEDSUBSILL



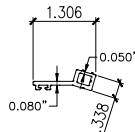
E27 SLANTEDHEAD RECEPTOR



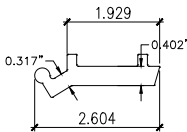
E29 SLANTEDHEAD RECEPTOR COVER



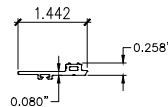
E25 SLANTEDSLAB COVER TRIM



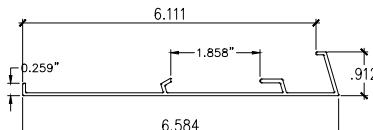
E26 SLANTEDSLAB COVER TRIM



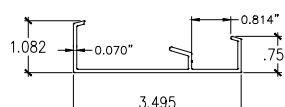
E28 SLANTEDRECEPTOR BACK



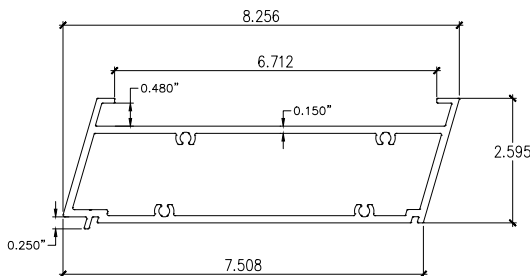
E32 SLANTEDSILL TRIM



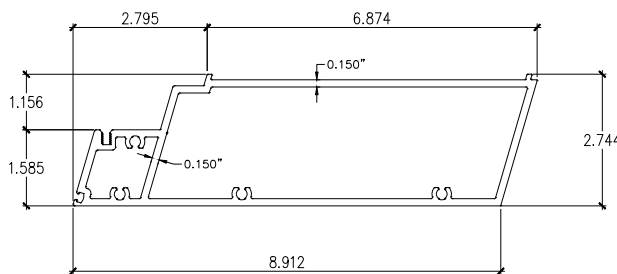
E34 SLANTEDSUBSILL BOTTOM COVER



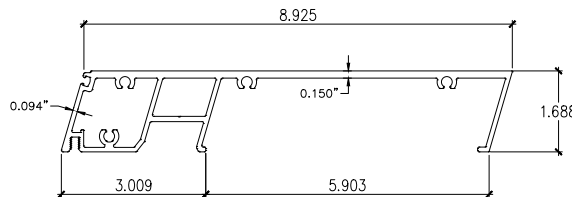
E35 SLANTEDSUBSILL COVER



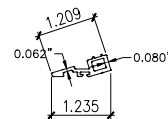
E30 SLANTEDHEAD TOP



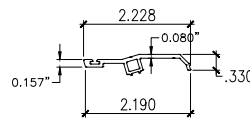
E31 SLANTEDHEAD BOTTOM



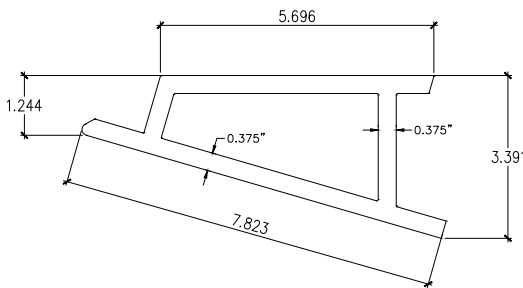
E33 SLANTEDSILL



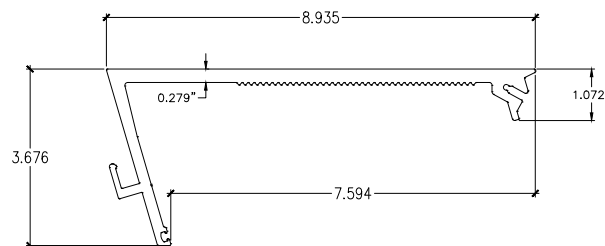
E36 SLANTEDSLAB COVER TRIM



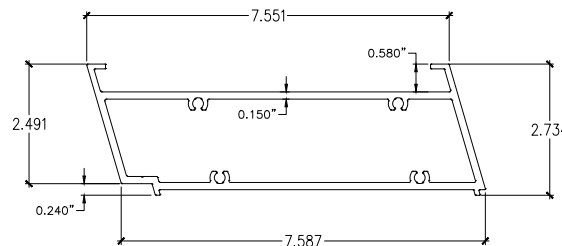
E37 SLANTEDHEAD TRIM



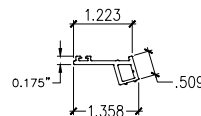
E38 BOTTOM SUBSILL WEDGE



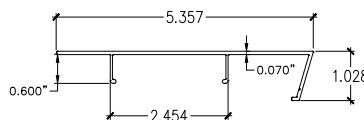
E39 SLANTEDHEAD RECEPTOR



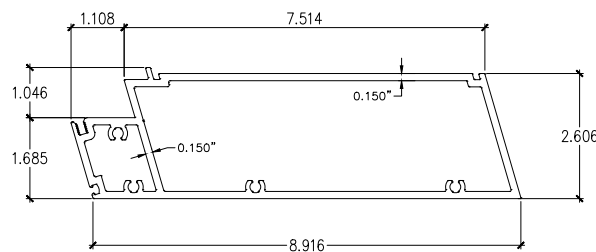
E40 SLANTEDHEAD TOP



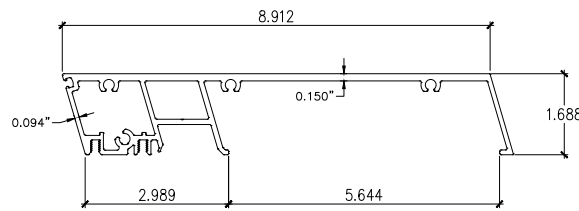
E41 SLANTEDSLAB COVER TRIM



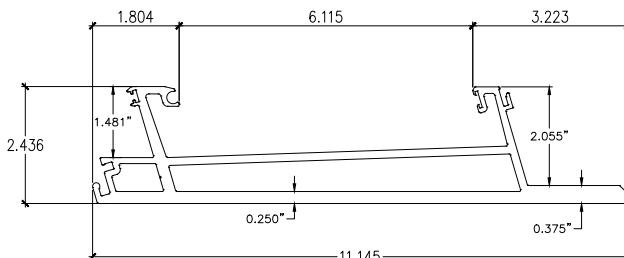
E42 SLANTEDHEAD RECEPTOR COVER



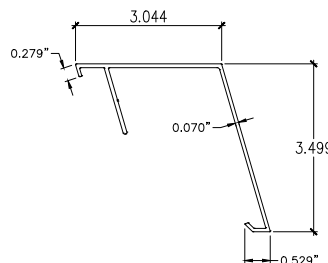
E43 SLANTEDHEAD BOTTOM



E44 SLANTEDSILL



E45 SLANTEDSUBSILL



E46 SLANTEDSUBSILL COVER

E.S.
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PROJECT
ES-WA9040
ALUMINUM WINDOW WALL
LARGE MISSILE IMPACT

FLORIDA APPROVAL #
FL# 47332.1

SHEET NAME:
BILL OF
MATERIALS

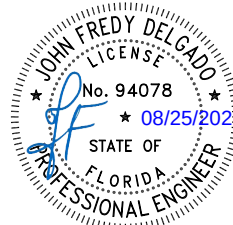
DRAWING REVISION LOG

No.	Date:	Revision:
R1	05/02/2025	UPDATE
R3	08/25/2025	UPDATE

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

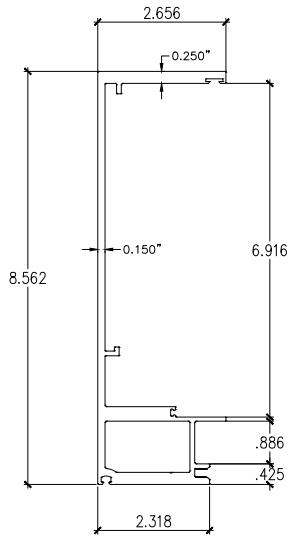
PO BOX 1339
DEERFIELD BEACH, FL 33443

CHECKED FOR STRUCTURAL
COMPLIANCE ONLY. BY:

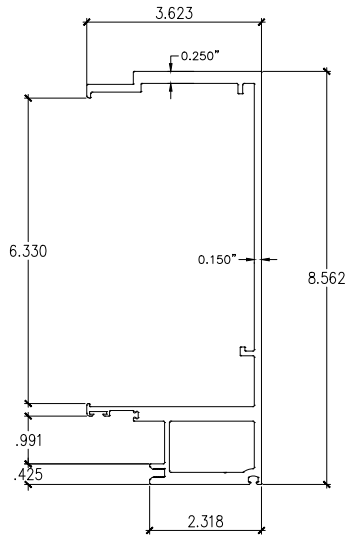


JOHN DELGADO, P.E.
FL. REG. # 94078

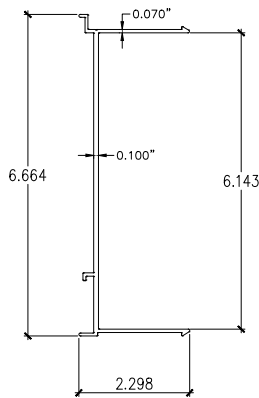
PREPARED BY AC	DRAFTED BY SS & DF	DATE 05/02/2025
DWG NUMBER DT-PA-ESW-004	SCALE 3" = 1'-0"	
PAGE 8.2 OF 8.4		



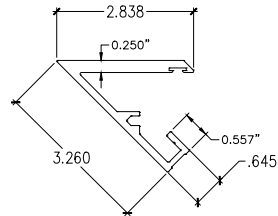
E47 FEMALE MULLION



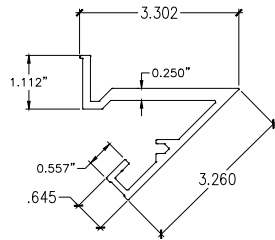
E48 MALE MULLION



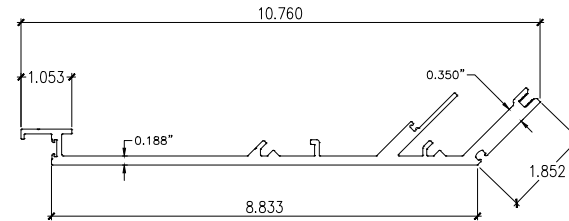
E49 WIDE HOOK CLIP



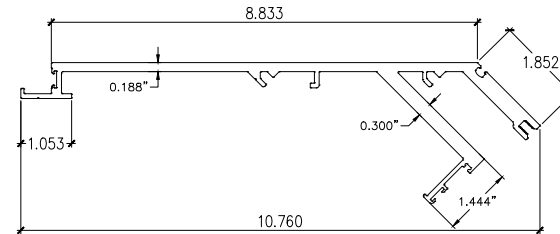
E50 FEMALE CORNER BACK



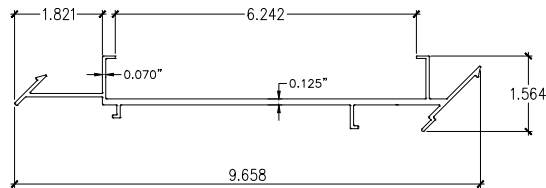
E52 MALE CORNER BACK



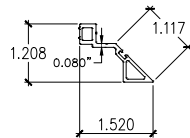
E51 FEMALE CORNER FRONT



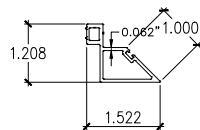
E53 MALE CORNER FRONT



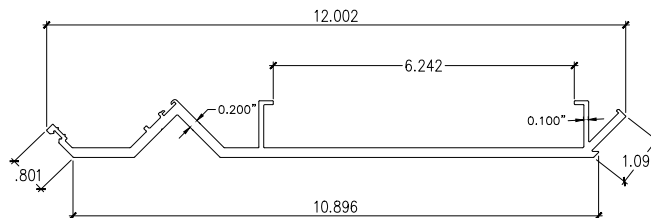
E54 CORNER CLIP



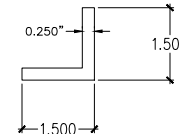
E55 CORNER TRIM



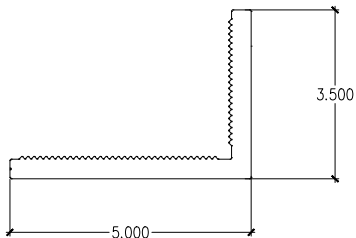
E56 CORNER TRIM



E57 CORNER MULLION FILLER



E58 ALUMINUM ANGLE



E59 SLAB ANCHOR

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DRAWING REVISION LOG

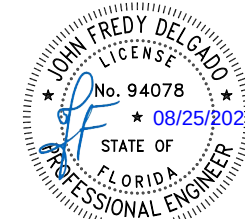
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ENGINEER:

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PREPARED BY AC	DRAFTED BY SS & DF	DATE 05/02/2025
DWG NUMBER DT-PA-ESW-004	SCALE 3" = 1'-0"	
PAGE 8.3 OF 8.4		



DWG NUMBER DT-PA-ESW-004	SCALE 3" = 1'-0"
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