

SERIES ES-WW8860i ALUMINUM WINDOW WALL
LARGE AND SMALL MISSILE IMPACT
(LEVEL D & LEVEL E & LEVEL A)

GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 8TH EDITION (2023)/9TH EDITION (2026) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- WINDOWS ARE RATED FOR LARGE AND SMALL MISSILE IMPACT. LARGE MISSILE IMPACT SYSTEM TO BE USED UP TO 30FT OF GRADE. SMALL MISSILE IMPACT SYSTEM TO BE USE ABOVE 30FT OF GRADE. IMPACT SHUTTERS ARE NOT REQUIRED.
- THESE WINDOWS ARE APPROVED FOR AIR AND WATER INFILTRATION.
- ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
- ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.
- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 8TH EDITION (2023)/9TH EDITION (2026) SECTION AS APPLICABLE.
- METAL STRUCTURES BY OTHERS TO BE DESIGNED TO SUPPORT THE LOADS IMPOSED BY THIS GLAZING SYSTEM AND TO TRANSFER SUCH LOADS TO THE BUILDING MAIN STRUCTURE.
- ULTIMATE LOAD OBTAINED FROM ASCE 7-22, MULTIPLY BY 0.6 SHALL BE LESS THAN OR EQUAL TO MAX. DESIGN LOAD IN THIS DOCUMENT. THE DESIGN LOADS SHOWN IN THIS DOCUMENT ARE ALLOWABLE DESIGN LOADS.
- 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.
- ALL FRAME CORNERS, JOINTS, MULLION SEAMS AND PERIMETER GLAZING BEAD TO FRAME INSTALLATION SEALED WITH SILICONE SEALANT.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING. COMPLIANCE WITH THESE CONDITIONS TO BE CHECKED PER FBC 1711.
 - FASTENERS USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE AND INSTALLED IN ENCLOSED SPACES SHALL BE GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.1 (E.G., ASTM A153 CLASS D, ASTM A641 CLASS 35, OR EQUIVALENT CORROSION RESISTANCE).
 - CONNECTORS AND METAL PLATES USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE SHALL BE STANDARD GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.2 (E.G., ASTM A653 G90, ASTM A123, OR PROTECTIVE COATING PER TPI 1).

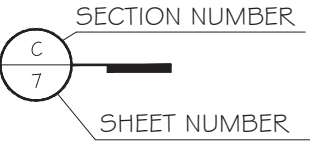
INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- STEP 1: DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-22 STANDARD.
- STEP 2: SEE SHEET G1 FOR GLASS TYPES.
- STEP 3: SEE SHEET E1 THRU E5 FOR APPROVED CONFIGURATION AND CAPACITY. THE CAPACITY SHOULD EXCEED THE REQUIRED DESIGN LOAD.
- STEP 4: SEE SHEETS A1 TO SELECT ANCHOR OPTIONS WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 5: THE LOWEST VALUE RESULTING FROM STEPS 2, 3, AND 4 SHALL APPLY TO ENTIRE SYSTEM.

ABBREVIATIONS AND SYMBOLS

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



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

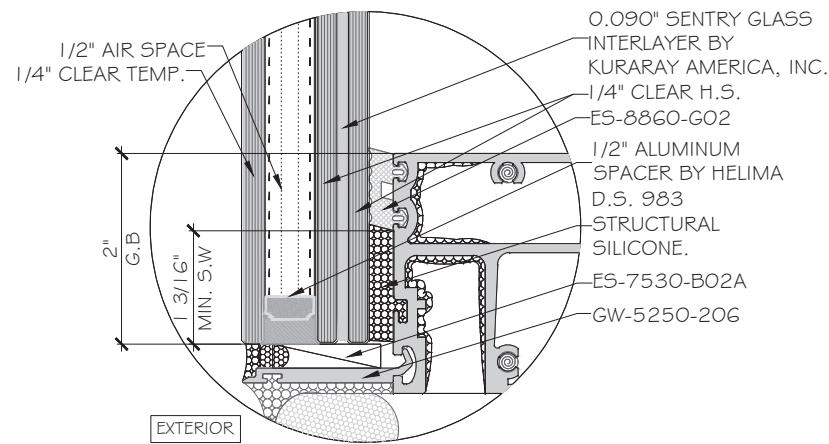
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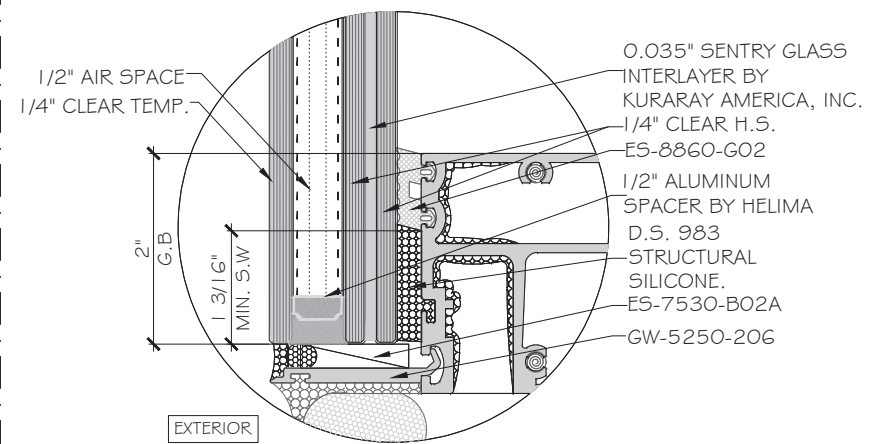
SERIES ES-WW8860i ALUMINUM WINDOW WALL-L.M.I.

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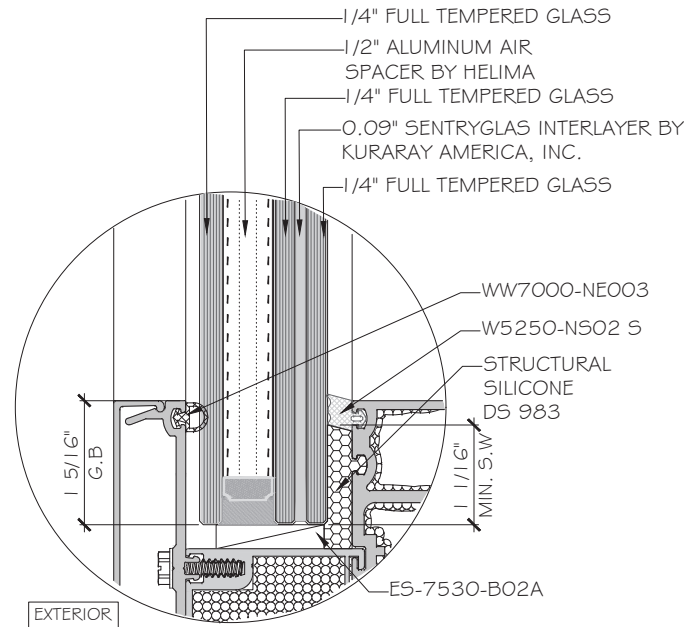
MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PARKWAY #301
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www.MCYEngineering.com mcy@mcyengineering.com



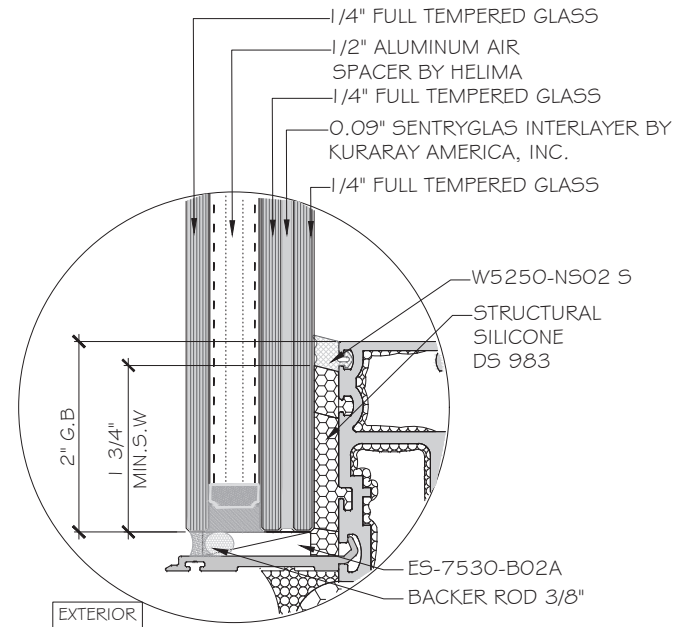
GLASS TYPE "G1"
1 5/16" INSULATED LAMINATED GLASS
(L.M.I. LEVEL D)



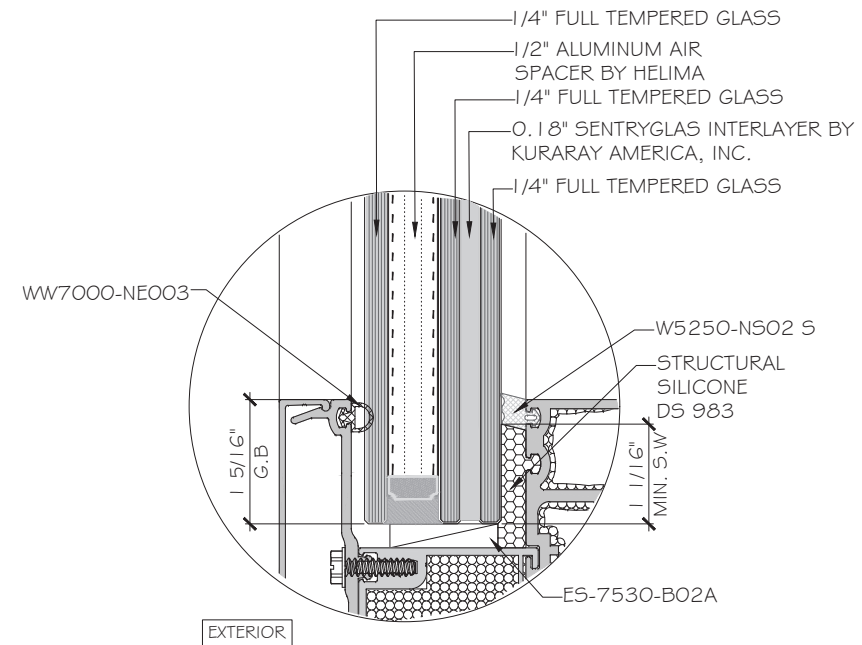
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(S.M.I. LEVEL A)



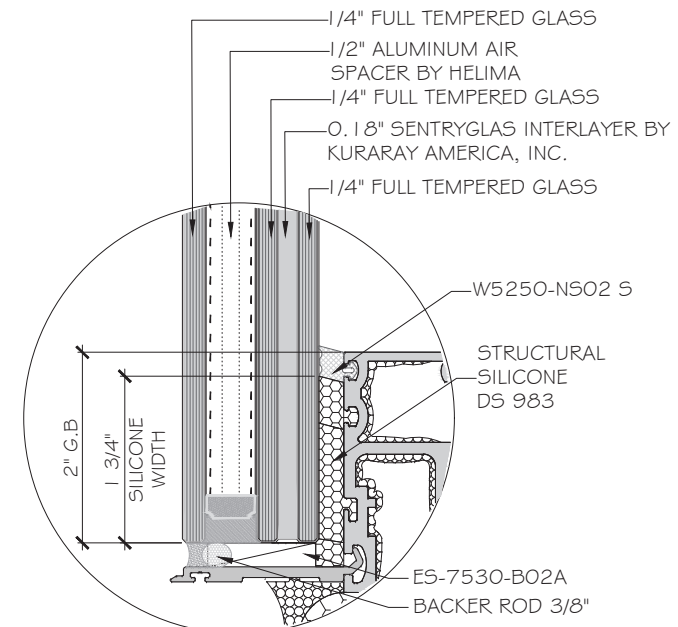
GLASS TYPE "G3" CAPTURED
1 5/16" INSULATED LAMINATED GLASS
(L.M.I. LEVEL D)



GLASS TYPE "G3" SSG
1 5/16" INSULATED LAMINATED GLASS
(L.M.I. LEVEL D)



GLASS TYPE "G4" CAPTURED
1 7/16" INSULATED LAMINATED GLASS
(L.M.I. LEVEL E)



GLASS TYPE "G4" SSG
1 7/16" INSULATED LAMINATED GLASS
(L.M.I. LEVEL E)

NOTE:
GLASS COMPLIES WITH ASTM E1300-16
OR 24 (3 SEC. GUSTS).

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YIPING WANG
REGISTERED PROFESSIONAL ENGINEER
No 55983
August 28th, 2026

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SERIES ES-WW860i ALUMINUM WINDOW WALL-L.M.I.

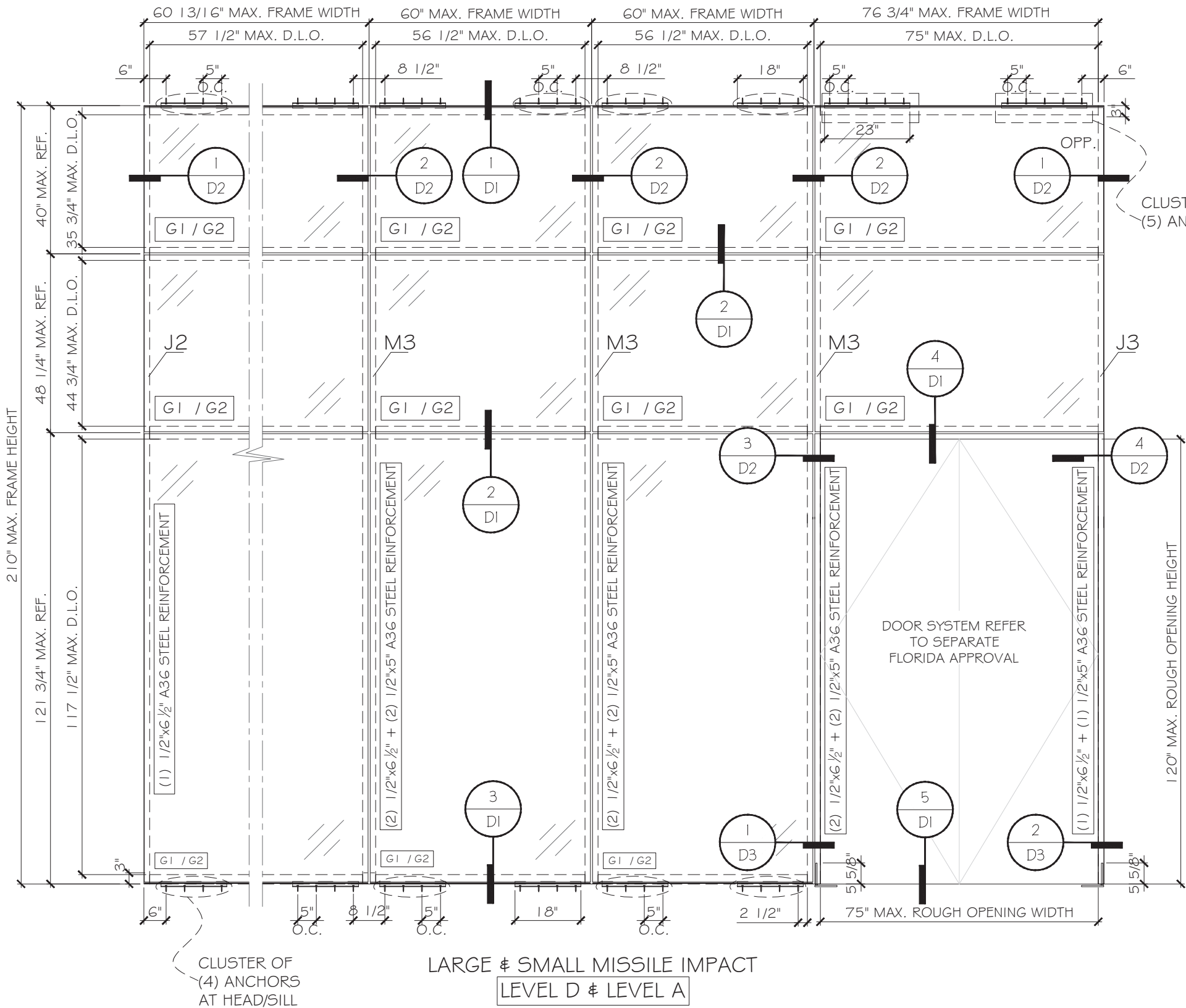
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RO	04.22.2025	James	NEW APPLICATION

Drawn Date: 08.27.2026 Scale: AS SHOWN

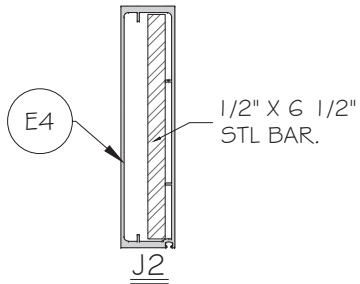
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G1

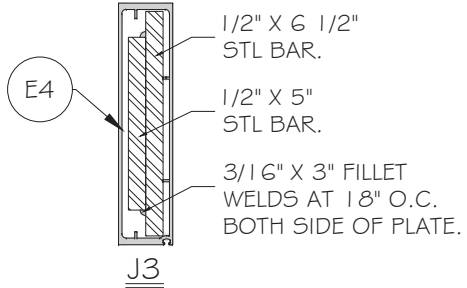
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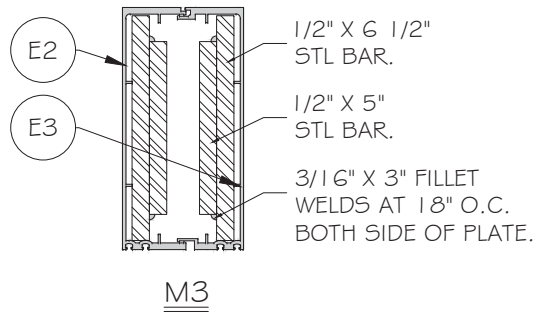
LARGE & SMALL MISSILE IMPACT
LEVEL D & LEVEL A
TYPICAL ELEVATIONS
MAX. DESIGN LOAD: +/-90 PSF.
FOR SIZE SHOWN ABOVE OR SMALLER.
SEE SHEET A1 FOR APPROVED ANCHOR TYPES AND SPACING.



J2	Ix (in ⁴)	Sx (in ³)
ALUMINUM	11.5883	3.2812
STL	11.4427	-
Ix alum + Ixstl x2.9	44.77213	(IN ALUM)



J3	Ix (in ⁴)	Sx (in ³)
ALUMINUM	11.5883	3.2812
STL	16.651	-
Ix alum + Ixstl x2.9	59.8762	(IN ALUM)



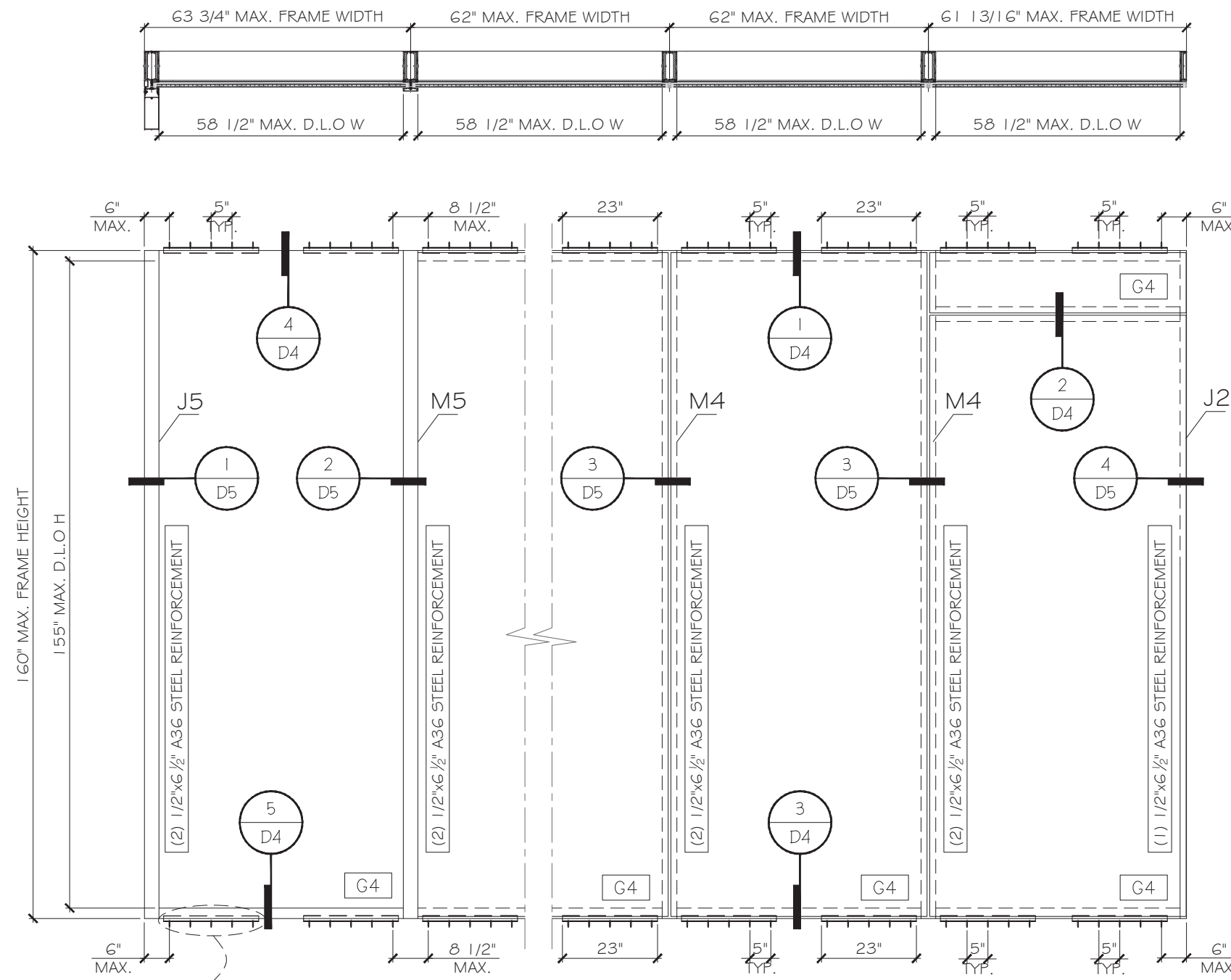
M3	Ix (in ⁴)	Sx (in ³)
ALUMINUM	20.3191	5.5319
STL	33.3021	-
Ix alum + Ixstl x2.9	116.8952	(IN ALUM)

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R1	08.27.2026 James NEW APPLICATION
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Drawing No. AD25-30	
Sheet No. E1	
03 OF 22	



LARGE MISSILE IMPACT
LEVEL E

TYPICAL ELEVATIONS

MAX. DESIGN LOAD: +100/-130 PSF.
FOR SIZE SHOWN ABOVE OR SMALLER.
SEE SHEET A1 FOR APPROVED ANCHOR TYPES AND SPACING.

E4

1/2" X 6 1/2" STL BAR.

J2

J2	Ix (in ⁴)	Sx (in ³)
ALUMINUM	11.5883	3.2812
STL	11.4427	-
Ix alum + Ixstl x2.9	44.77213	(IN ALUM)

E2

E3

1/2" X 6 1/2" STL BAR.

M4

M4	Ix (in ⁴)	Sx (in ³)
ALUMINUM	20.3191	5.5319
STL	22.8854	-
Ix alum + Ixstl x2.9	86.6868	(IN ALUM)

E1 G

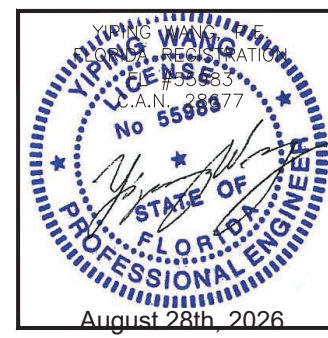
E3

1/2" X 6 1/2" STL BAR.

M5/J5

M5/J5	Ix (in ⁴)	Sx (in ³)
ALUMINUM	21.8764	5.767
STL	22.8854	-
Ix alum + Ixstl x2.9	88.2441	(IN ALUM)

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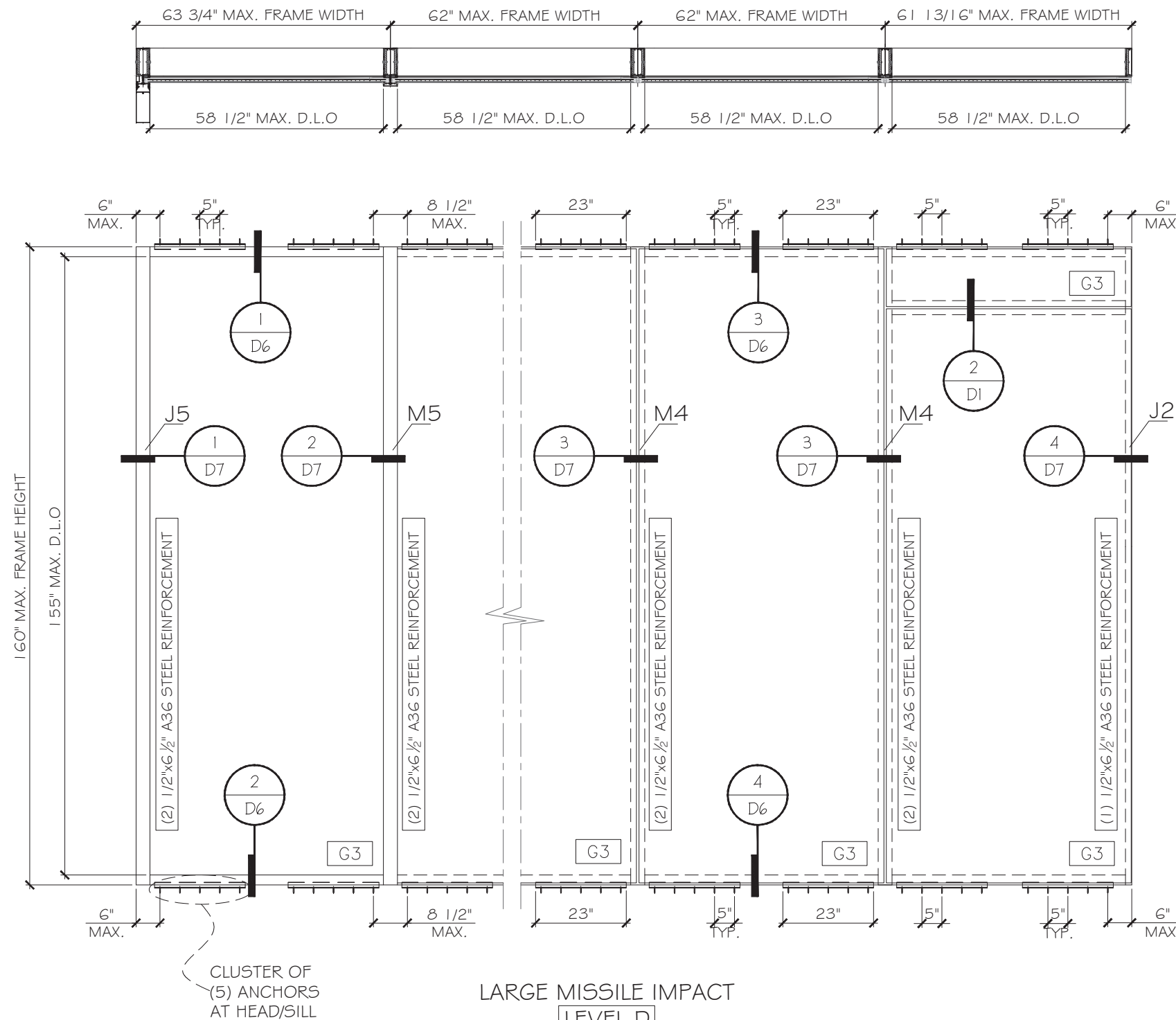
SERIES ES-WW8601 ALUMINUM WINDOW WALL-L.M.I.

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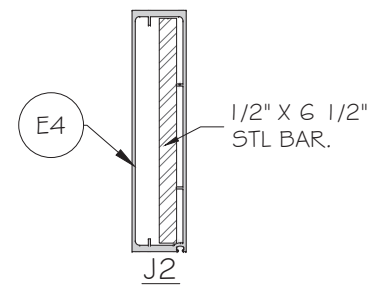
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Sheet No. 04 OF 22

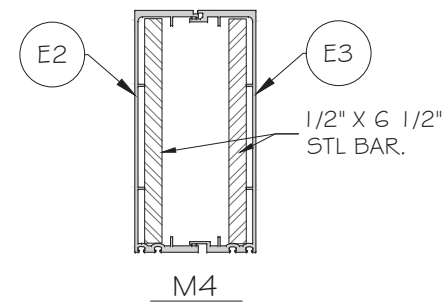


TYPICAL ELEVATIONS

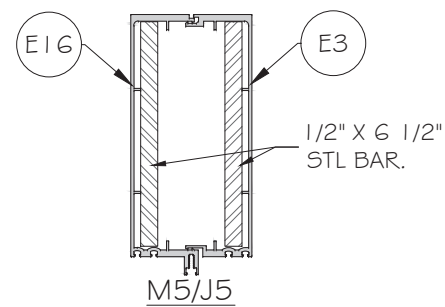
MAX. DESIGN LOAD: +100/-130 PSF.
FOR SIZE SHOWN ABOVE OR SMALLER.
SEE SHEET A1 FOR APPROVED ANCHOR TYPES AND SPACING.



J2	Ix (in ⁴)	Sx (in ³)
ALUMINUM	11.5883	3.2812
STL	11.4427	-
Ix alum + Ixstl x2.9	44.77213	(IN ALUM)



M4	Ix (in ⁴)	Sx (in ³)
ALUMINUM	20.3191	5.5319
STL	22.8854	-
Ix alum + Ixstl x2.9	86.6868	(IN ALUM)



M5/J5	Ix (in ⁴)	Sx (in ³)
ALUMINUM	21.8764	5.767
STL	22.8854	-
Ix alum + Ixstl x2.9	88.2441	(IN ALUM)

FLORIDA APPROVAL:

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YIPING WANG
REGISTERED PROFESSIONAL ENGINEER
No 55983
C.A.N. 28477

August 28th, 2026

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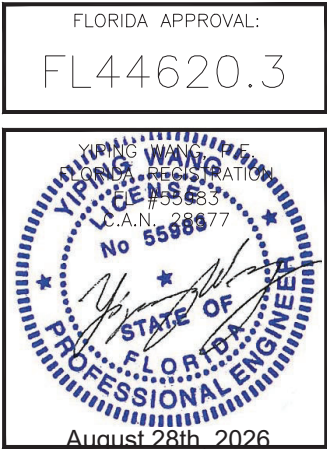
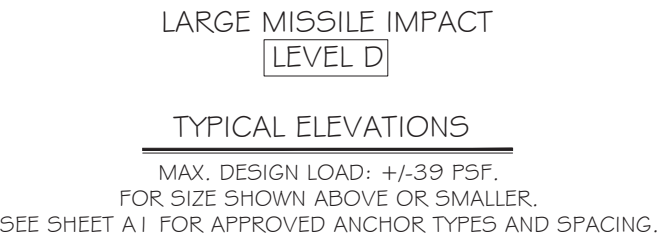
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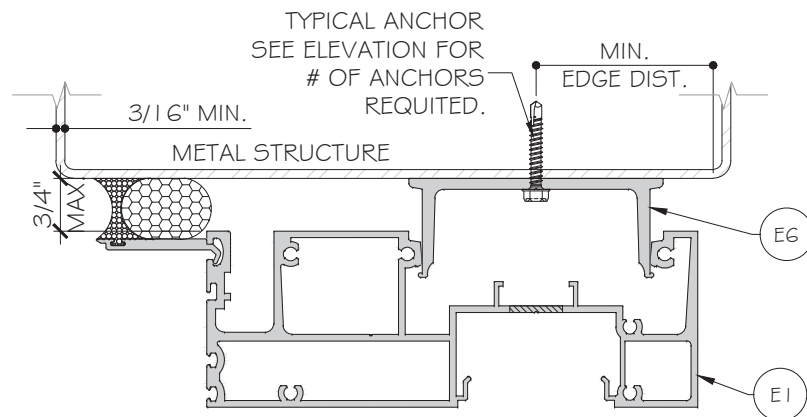
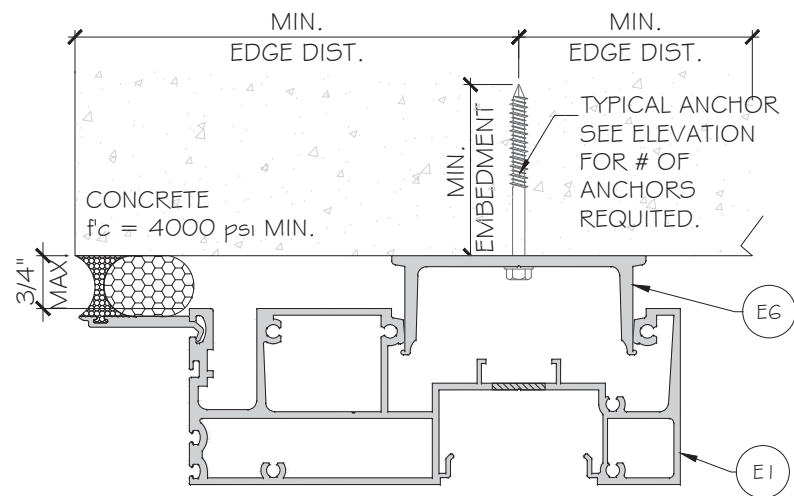
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AD25-30

E3

Sheet No.
05 OF 22



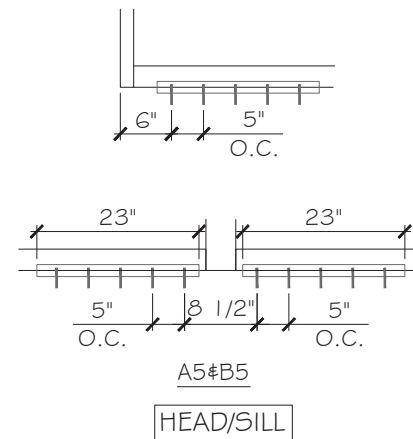
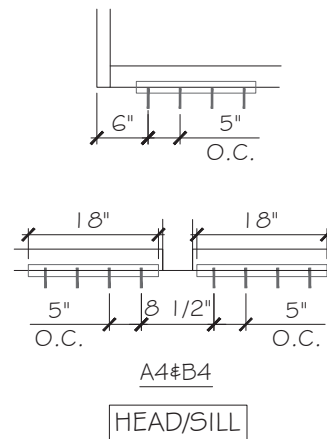


TYPICAL ANCHORS:
(SEE ELEVATIONS FOR SPACING)

TYPE 'A': 5/16" DIA. ULTRACON BY 'DEWALT' ($F_u=177$ KSI, $F_y=155$ KSI)
DIRECTLY INTO CONCRETE $f'_c=4$ KSI MIN.
2" MIN. EMBED. INTO CONCRETE
AT 5" O.C. & 3 1/8" MIN. EDGE DISTANCE.

TYPE 'B': 5/16" DIA. DRILL-FLEX BY 'ELCO'(GRADE 5)
INTO 3/16" MIN. THK. STEEL(A36 MIN.)
STEEL: $F_y=36$ KSI MIN.
AT 5" O.C. & 1 7/8" MIN. EDGE DISTANCE.

METAL STRUCTURES BY OTHERS TO BE DESIGNED TO
SUPPORT THE LOADS IMPOSED BY THIS SYSTEM AND TO
TRANSFER SUCH LOADS TO THE BUILDING MAIN STRUCTURE.



FLORIDA APPROVAL:

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August 28th, 2026

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SERIES ES-WW860: ALUMINUM WINDOW WALL-L.M.I.

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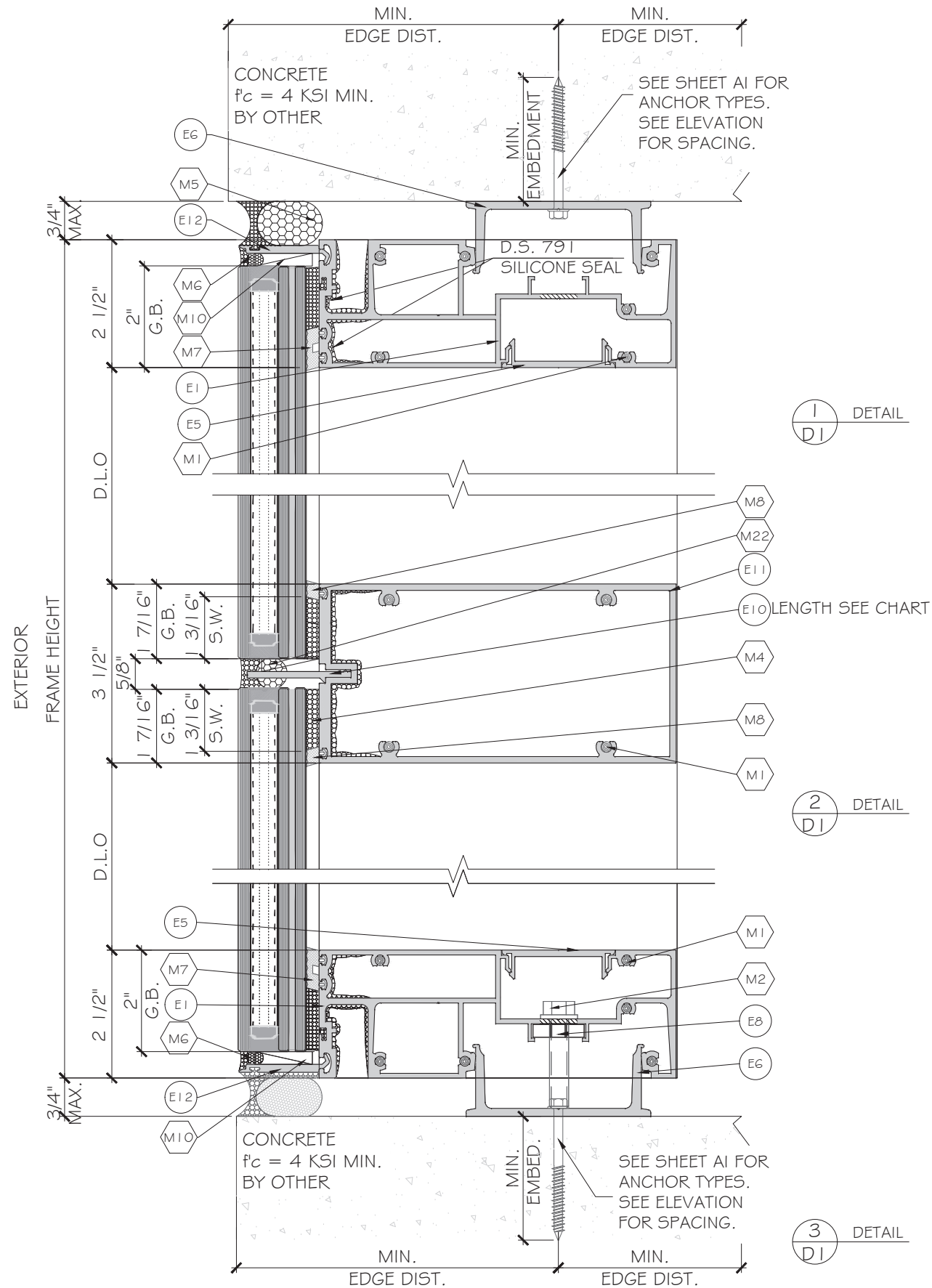
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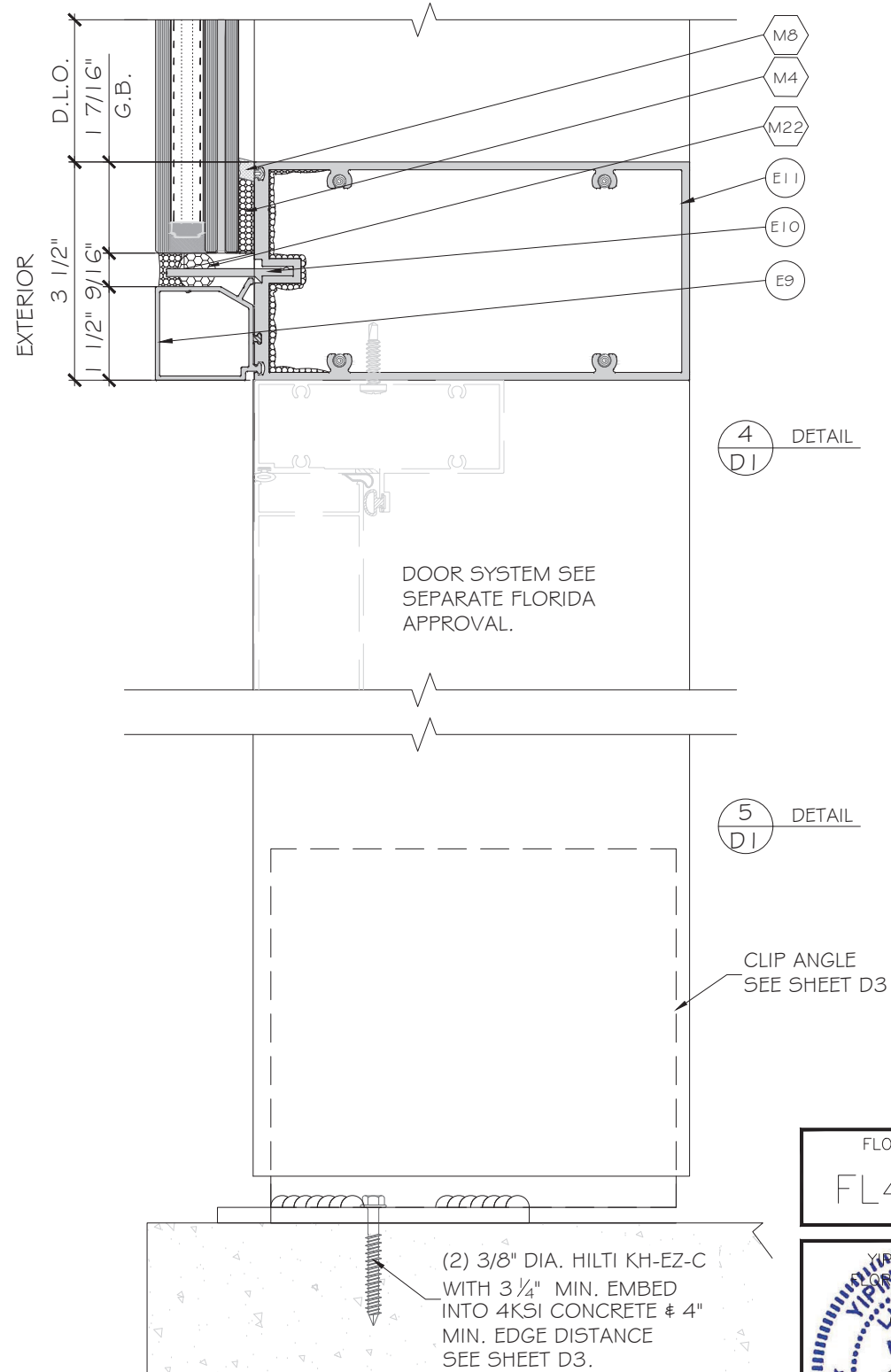
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Drawing No.
AD25-30

Sheet No.
08 OF 22



DLO AREA ABOVE	ITEM E10
FT ²	LENGTH
40	5"
50	5.75"
60	6.75"
70	8"
80	9"
88.12	10"



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YIPING WANG
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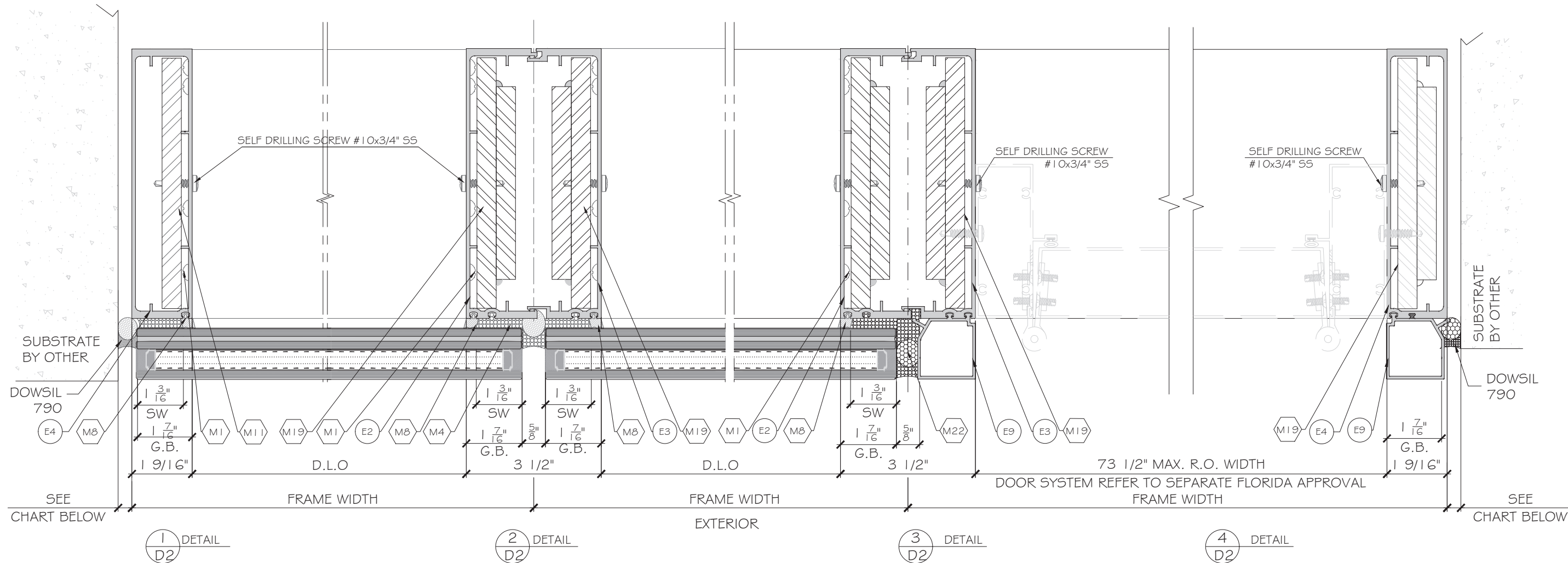
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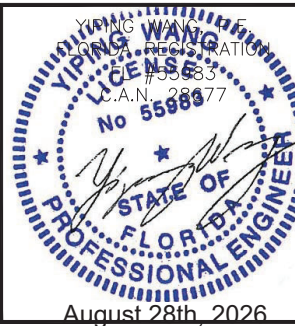
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SHEET NO.	09 OF 22		



FRAME HEIGHT FH(in)	DOWSIL 790	
	MIN. GAP (in)	MAX. GAP (in)
120	3/8"	3/4"
144	1/2"	3/4"
168	5/8"	3/4"
210	5/8"	3/4"

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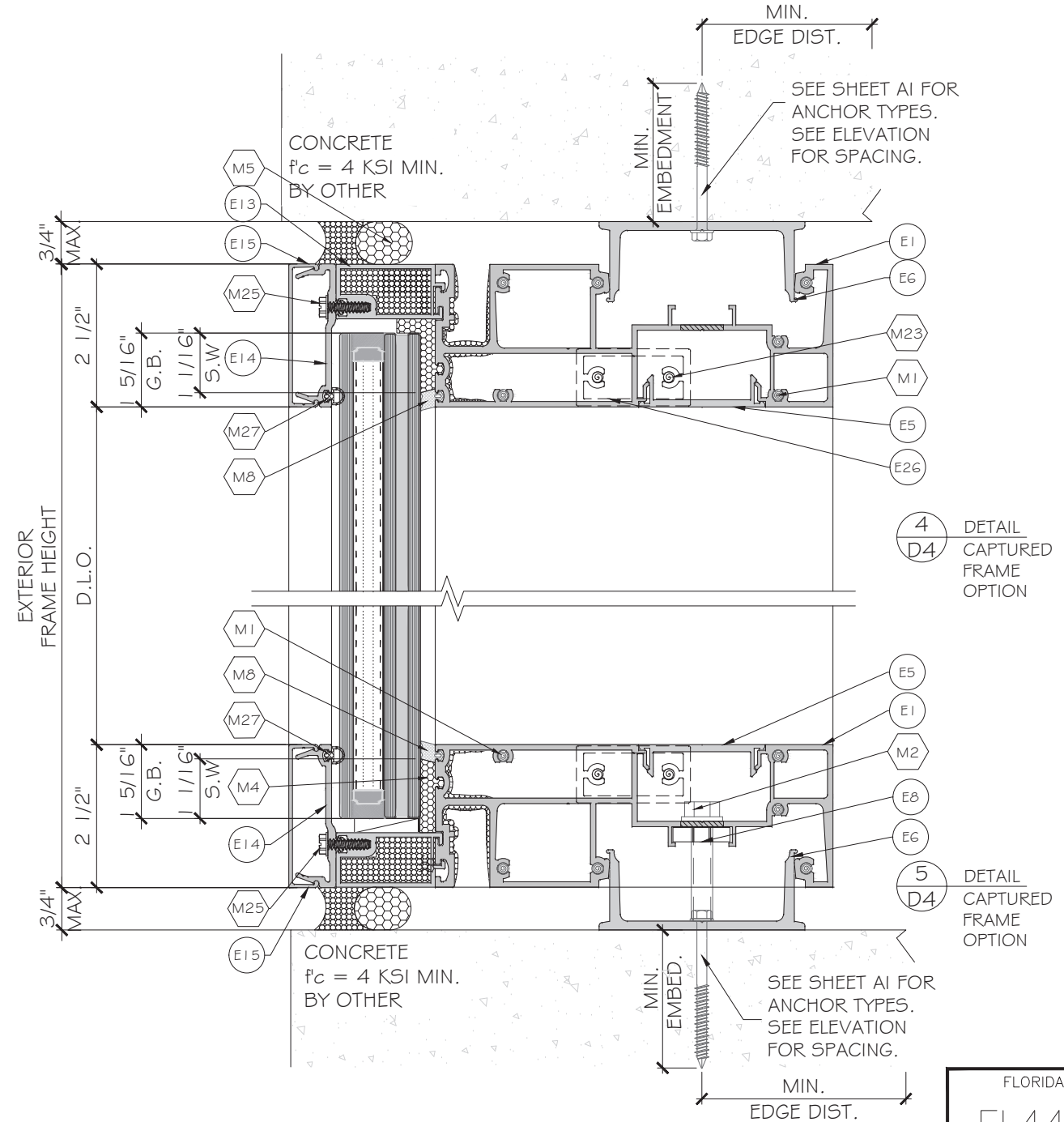
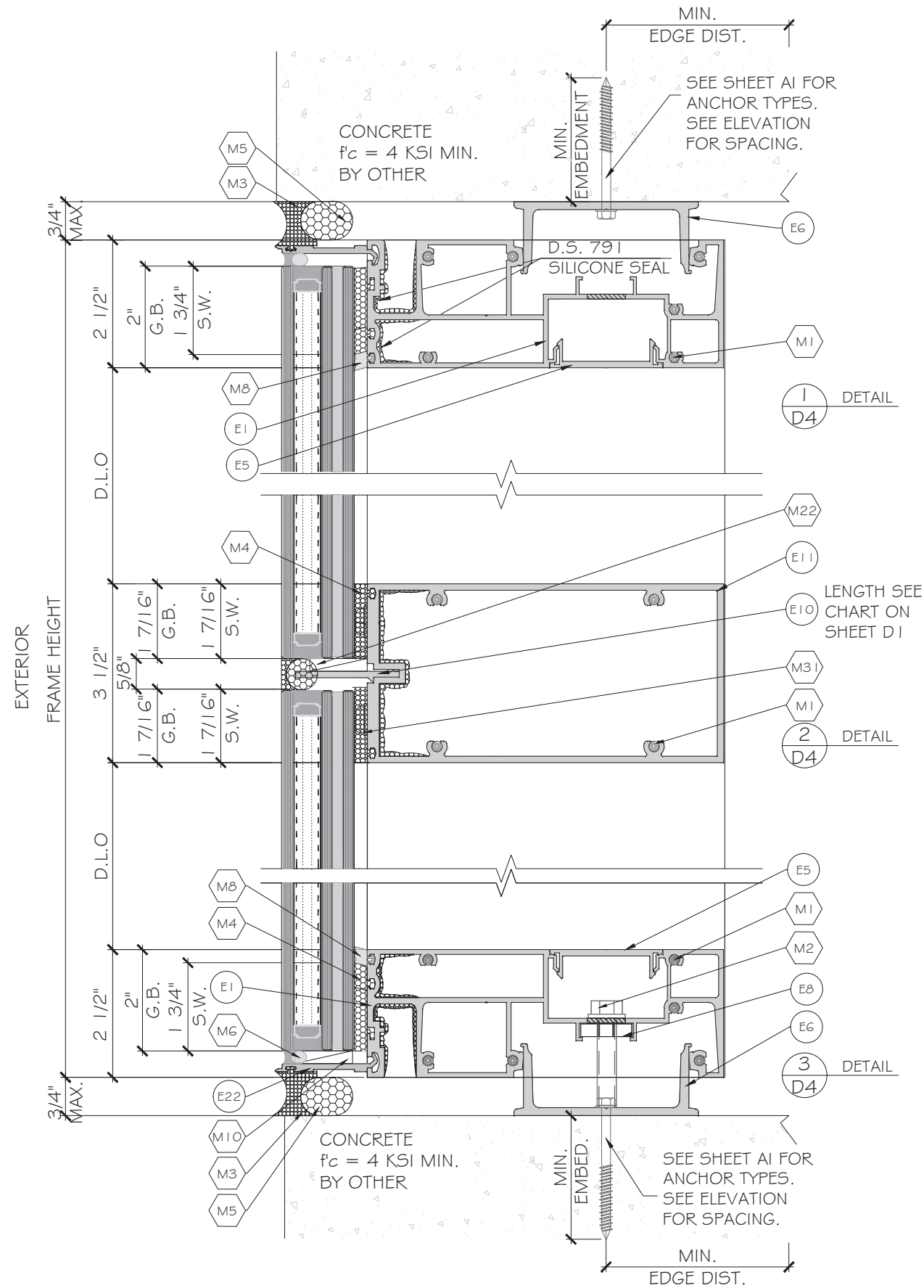
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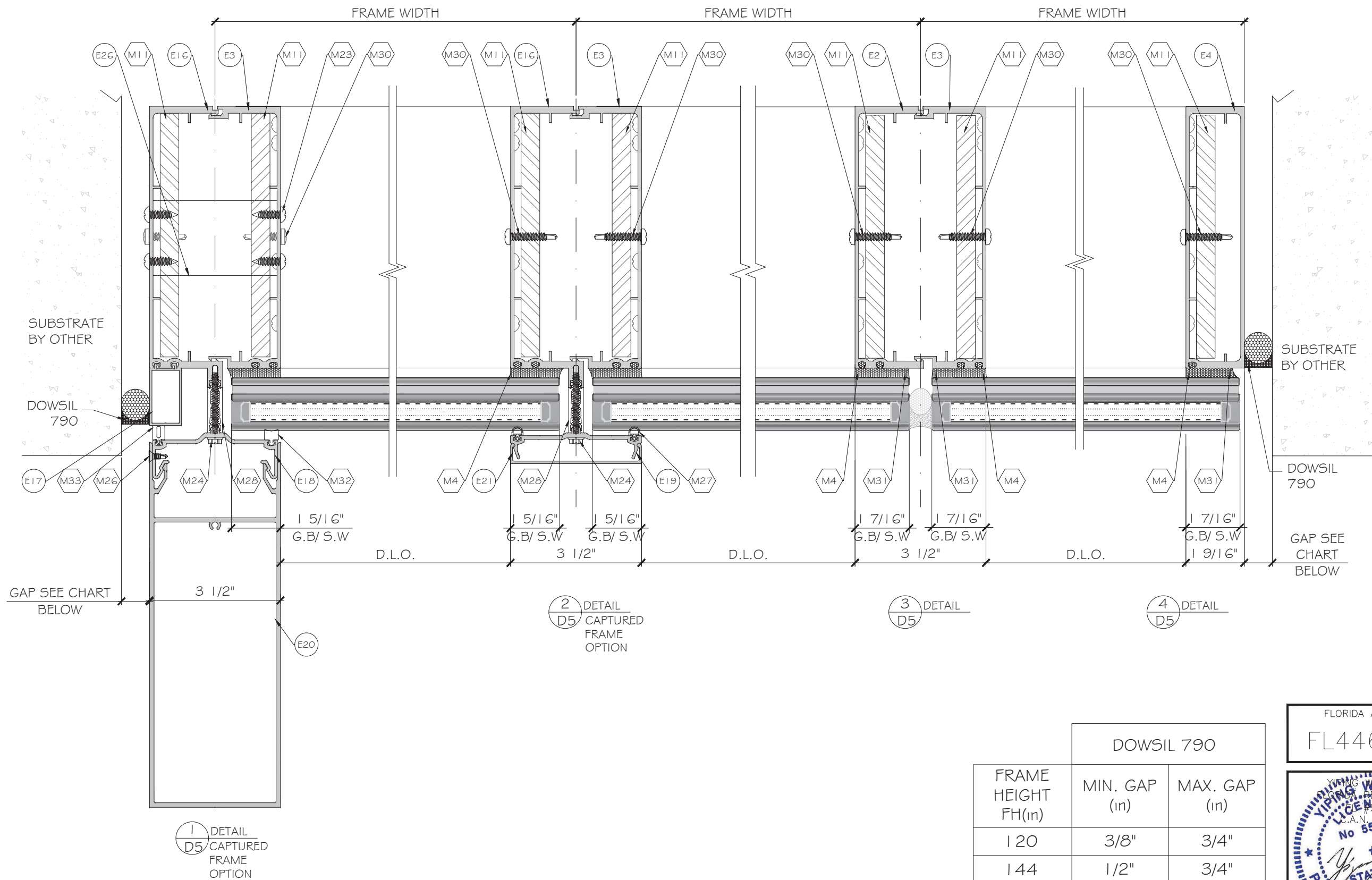
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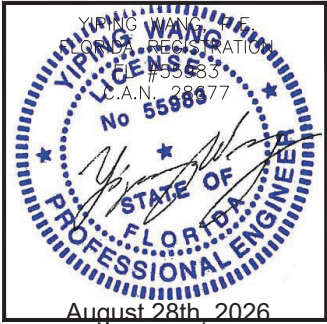
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Drawing No. AD25-30			
Sheet No. 12 OF 22			



FRAME HEIGHT FH(in)	DOWSIL 790	
	MIN. GAP (in)	MAX. GAP (in)
120	3/8"	3/4"
144	1/2"	3/4"
162	5/8"	3/4"

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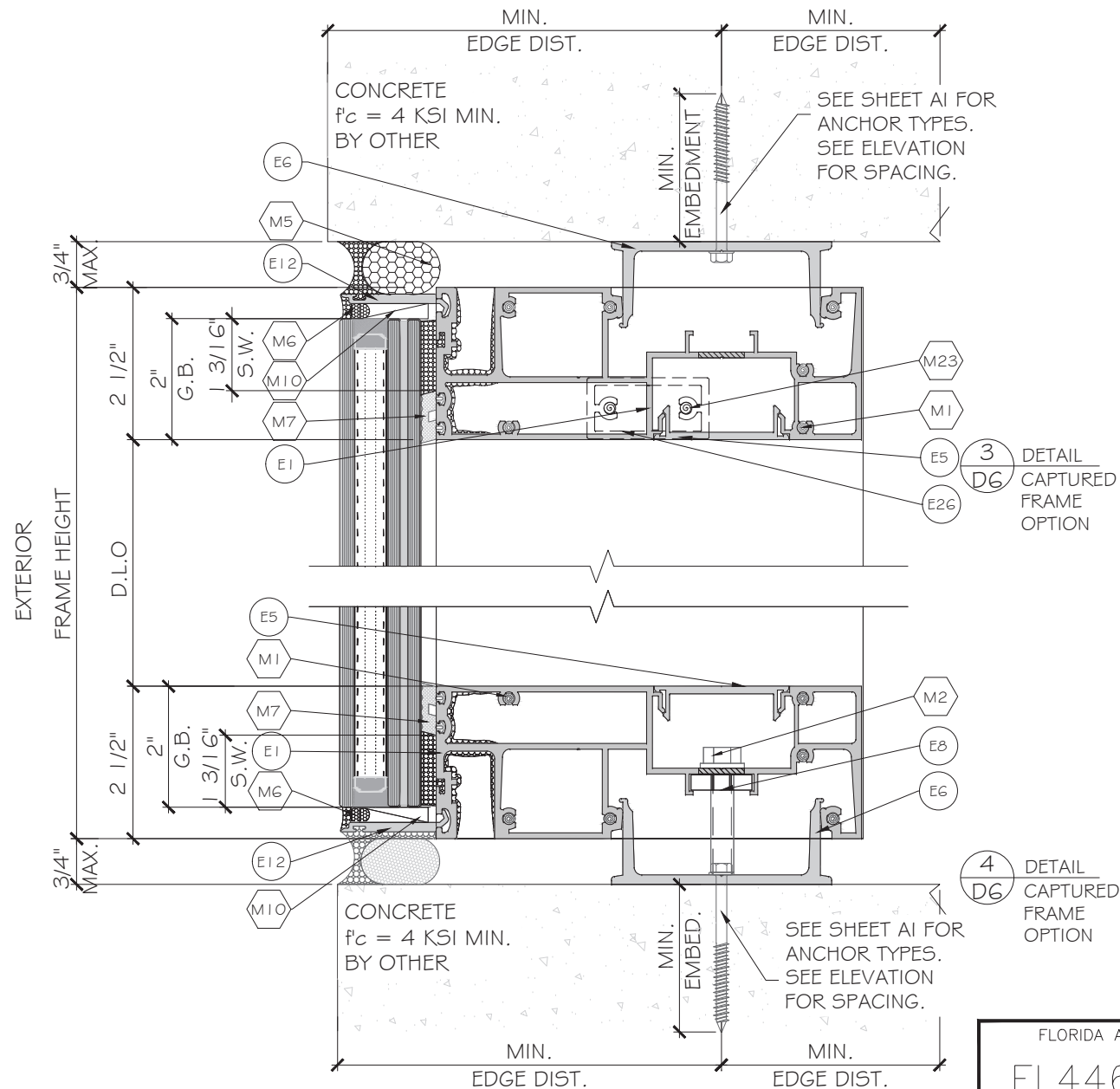
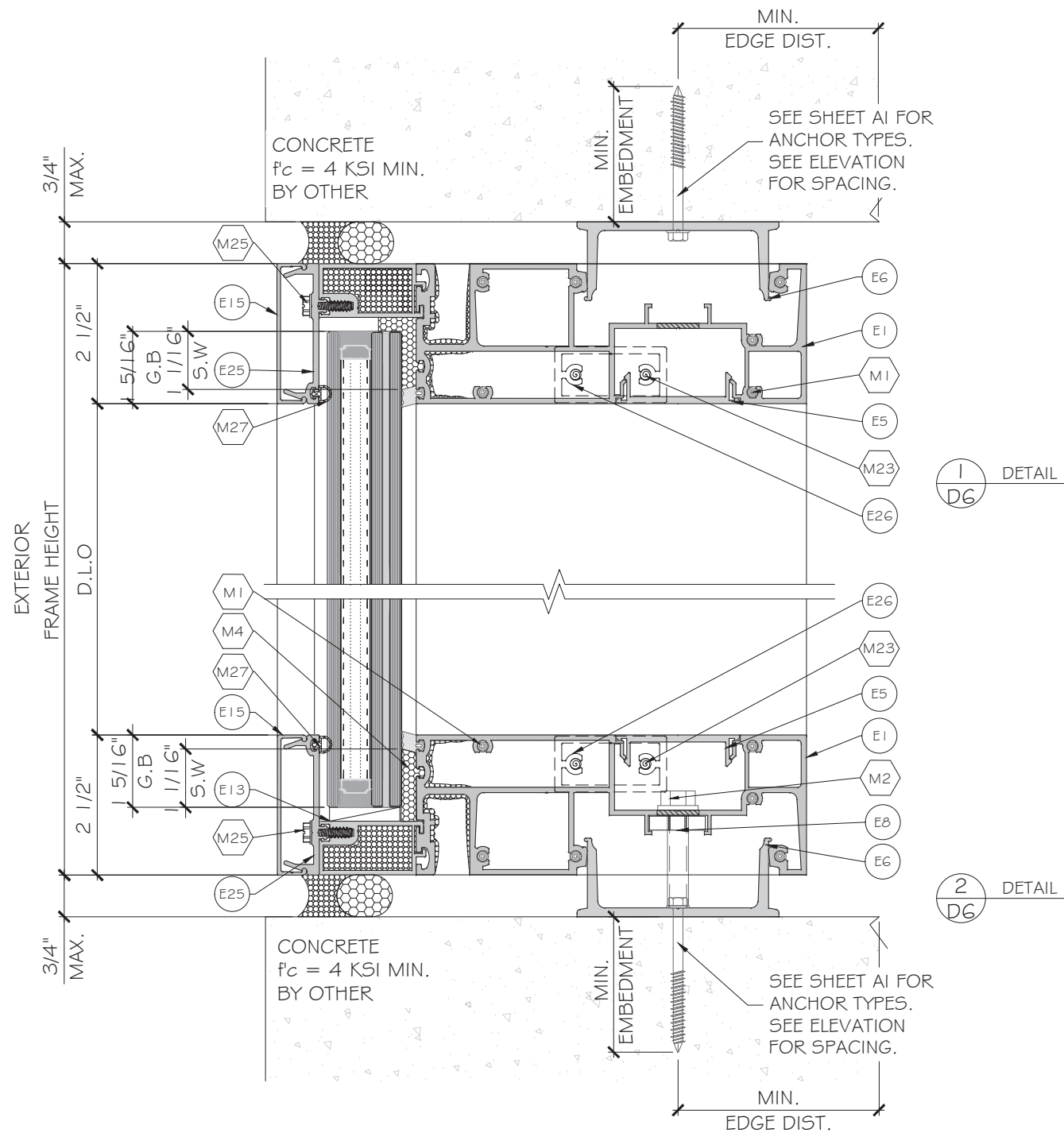
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Drawn Date: 08.27.2026

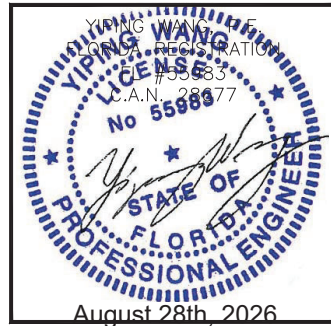
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DRAWING NO.
AD25-30

Sheet No.
13 OF 22



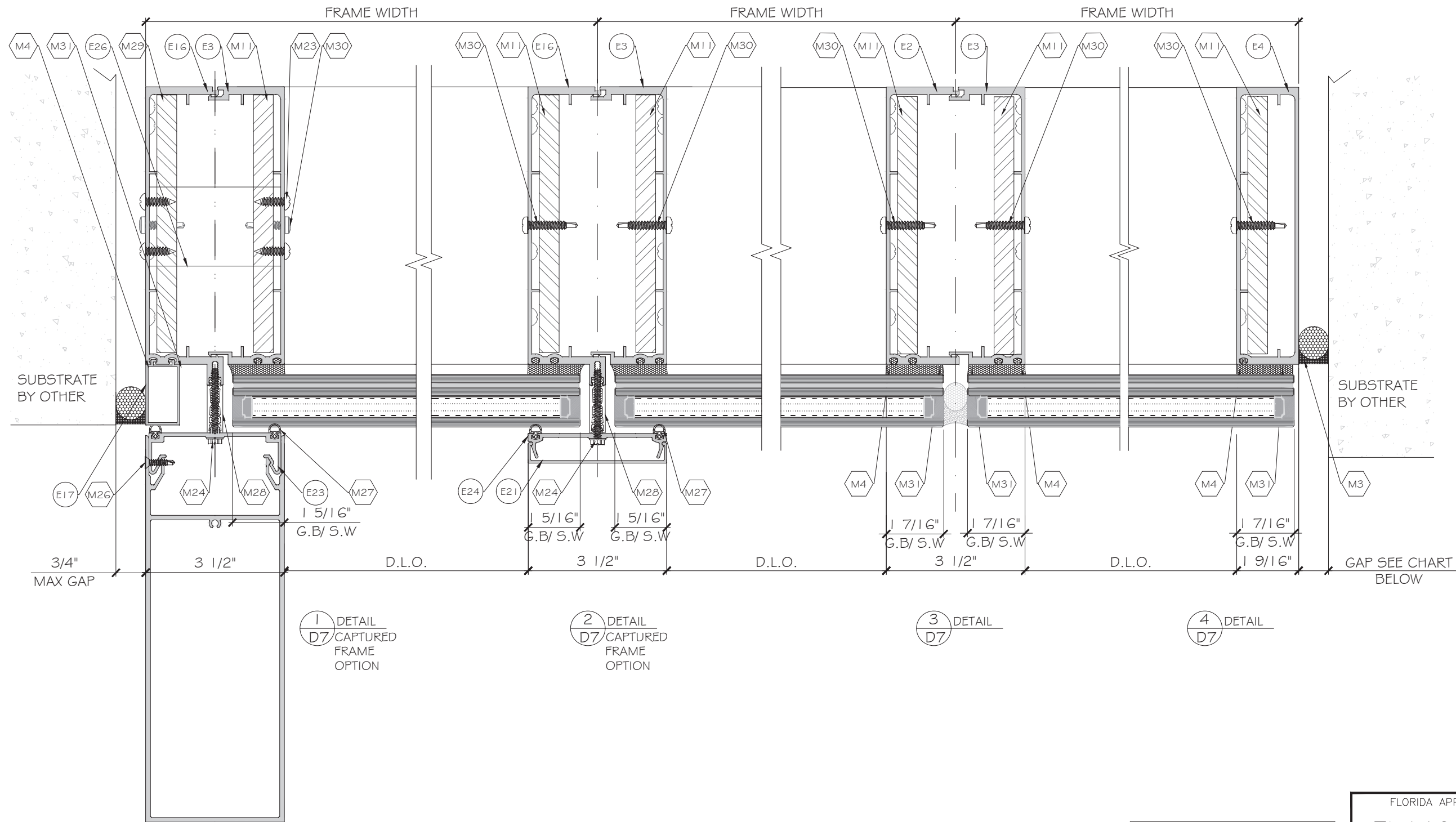
FLORIDA APPROVAL:
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MIRAMAR, FL 33027 P: 305.588.5224
www.MCYEngineering.com mcy@mcyengineering.com

SERIES ES-WW8601 ALUMINUM WINDOW WALL-L.M.I.
E.S. WINDOWS, INC.
10653 NE Quaybridge Ct. Miami, FL 33138
TEL. (305) 624-7775

Rev. No.	Date	Drawn By	Description
R1	08.27.2026	James	REVISION
RO	04.22.2025	James	NEW APPLICATION
Drawn Date: 08.27.2026 Scale: AS SHOWN			
DRAWING NO. AD25-30			
Sheet No. 14 OF 22			



FRAME HEIGHT FH(in)	DOWSIL 790	
	MIN. GAP (in)	MAX. GAP (in)
120	3/8"	3/4"
144	1/2"	3/4"
162	5/8"	3/4"

FLORIDA APPROVAL:
FL44620.3



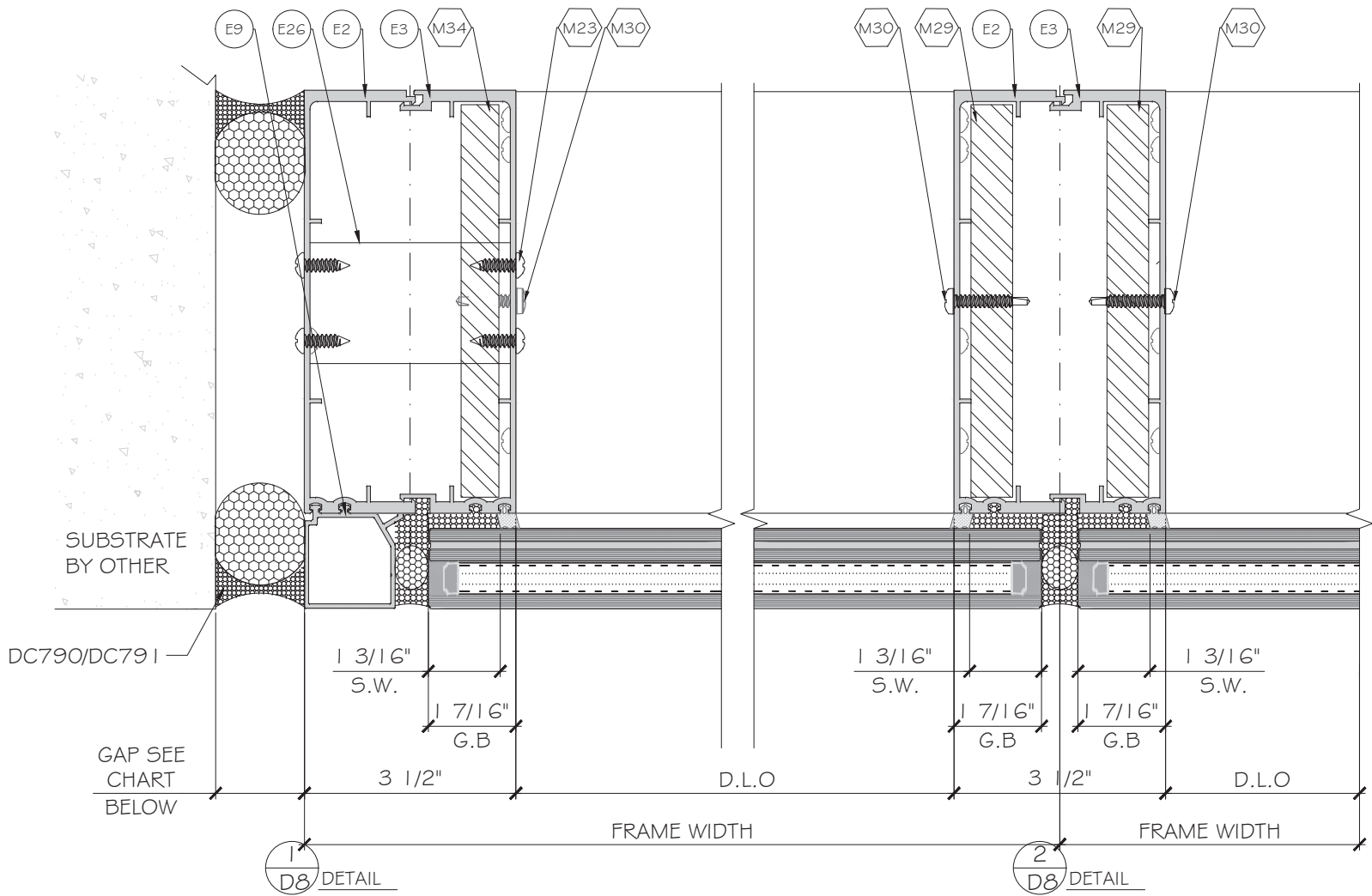
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Rev. No.	Date	Drawn By	Description
R1	08.27.2026	James	REVISION
RO	04.22.2025	James	NEW APPLICATION
Drawing Date: 08.27.2026 Scale: AS SHOWN			
DRAWING NO. AD25-30			
D7			
Sheet No. 15 OF 22			

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FRAME HEIGHT (in)	DC790	DC79 I	DC790/DC79 I
	MIN. GAP (in)	MIN. GAP (in)	MAX. GAP (in)
156	1/2	3/4	1 1/2
192	5/8	1	1 1/2
226	3/4	1 1/8	1 1/2



FLORIDA APPROVAL:
FL44620.3

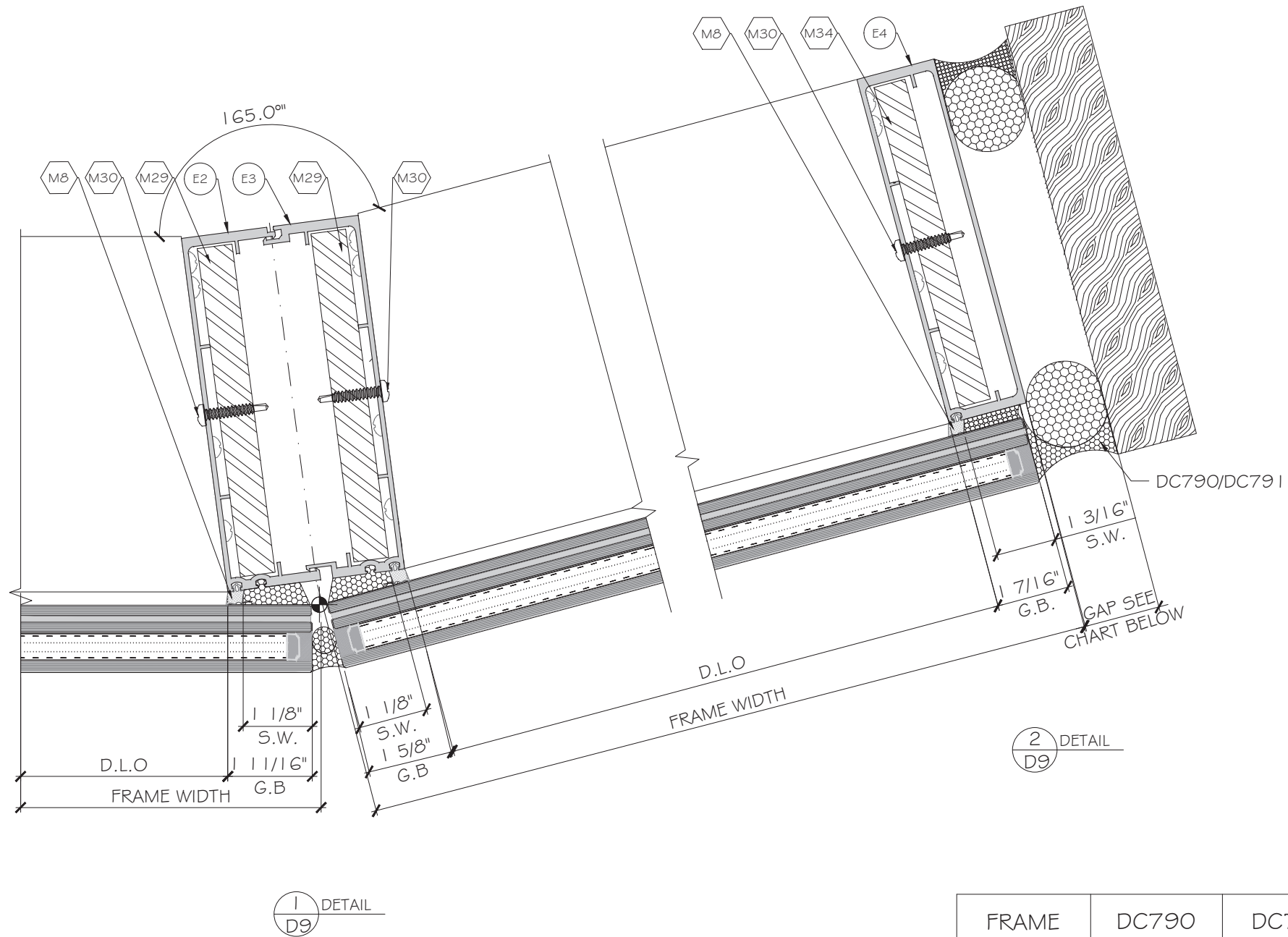
August 28th, 2026

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FRAME HEIGHT (in)	DC790	DC791	DC790/DC791
	MIN. GAP (in)	MIN. GAP (in)	MAX. GAP (in)
156	1/2	3/4	1 1/2
192	5/8	1	1 1/2
226	3/4	1 1/8	1 1/2

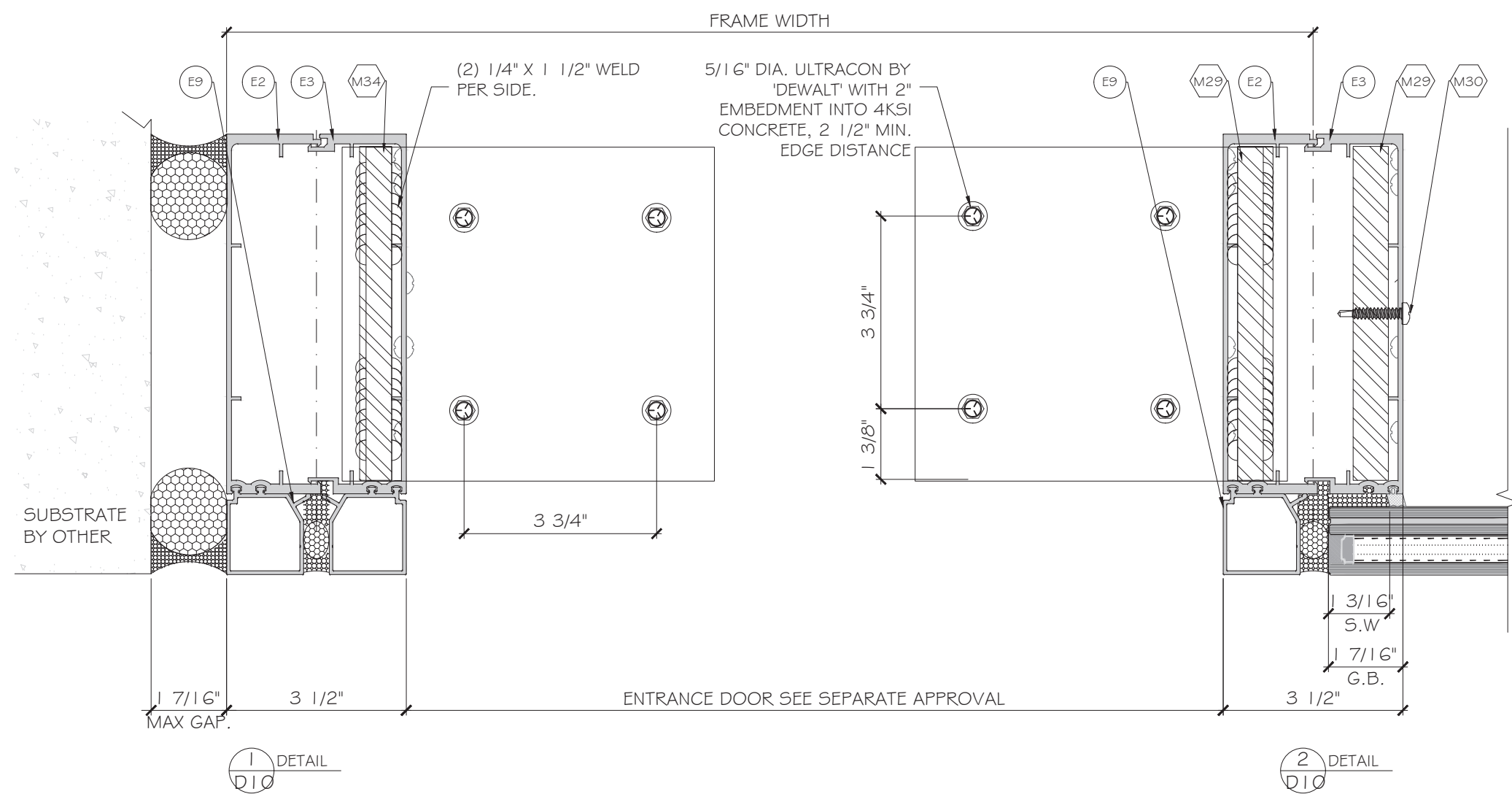
FLORIDA APPROVAL:
FL44620.3

YIPING WANG
Professional Engineer
No 55988
August 28th, 2026

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Rev. No.	Date	Drawn By	Description
R1	08.27.2026	James	REVISION
RO	04.22.2025	James	NEW APPLICATION
Drawn Date: 08.27.2026 Scale: AS SHOWN Drawing No.: AD25-30 Sheet No.: 17 OF 22			



FLORIDA APPROVAL:
FL44620.3

Drawn Date
08.27.2026

Scale
AS SHOWN

DRAWING NO.
AD25-30

D10

Sheet No.
18 OF 22

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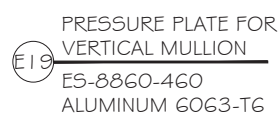
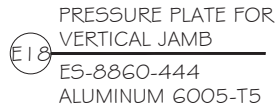
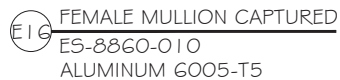
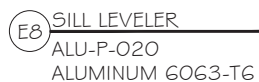
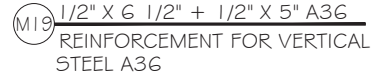
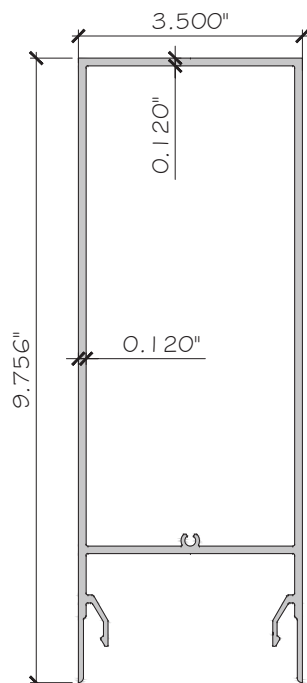
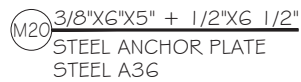
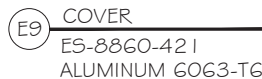
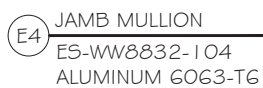
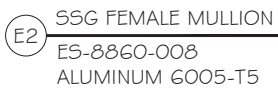
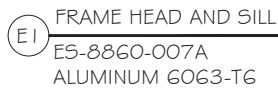
Drawn Date
08.27.2026

Scale
AS SHOWN

DRAWING NO.
AD25-30

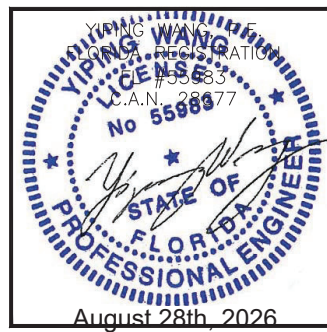
D10

Sheet No.
18 OF 22



PRESSURE PLATE COVER
 FOR VERTICAL JAMB
 E5-8860-031
 ALUMINUM 6063-T6

FLORIDA APPROVAL:
FL44620.3



SERIES ES-WW8860i ALUMINUM WINDOW WALL-L.M.I..

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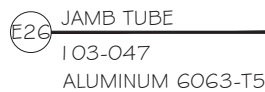
GLAZING CONSULTANTS

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MIRAMAR, FL. 33027 P: 305.588.5224

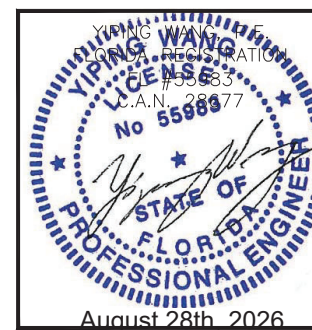
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Drawn Date 08.27.2026	Scale AS SHOWN
DRAWING NO.	
AD25-30	
PART1	
Sheet No.	
19 OF 22	



FLORIDA APPROVAL:

FL44620.3



Rev. No.	Date	Drawn By	Description
RI	06.27.2026	James	REVISION
RO	04.22.2025	James	NEW APPLICATION

Drawn Date	Scale
08.27.2026	AS SHOWN

DRAWING NO.
AD25-30

PART2

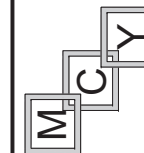
Sheet No.
20 OF 22

SERIES ES-WW8860i ALUMINUM WINDOW WALL-L.M.I.

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MCY ENGINEERING, INC.

ENGINEERING, GLAZING CONSULTANTS

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12701 MIRAMAR PARK
MIRAMAR, FL. 33027

MIRAMAR, FL. 33027

www.MC'YEngineering.com mcv@mcvengineering.com

mcy@mcyengineering.com

BILL OF MATERIALS			
ITEM NO.	DESCRIPTION	PARTS NUMBERS	MATERIAL
M1	FOR ASSEMBLY FRAME	#12 x 1 1/2" P.H S.M.S	STAINLESS STEEL
M2	LEVELING SCREW	3/8 - 16 x 2" HWH TAP BOLT	STAINLESS STEEL
M3	WEATHER SEALANT	DS-791	SILICONE
M4	STRUCTURAL SILICONE	DS-983	SILICONE
M5	BACKER ROD @ HORIZONTAL	BACKER ROD 7/8"	OPEN CELL POLIETHYLENE FOAM
M6	BACKER ROD @ HORIZONTAL	BACKER ROD 3/8"	OPEN CELL POLIETHYLENE FOAM
M7	INTERIOR GASKET	ES-8860-G02 S	SILICONE
M8	INTERIOR GASKET	W5250-NS02	SILICONE
M9	SPACER GASKET	ES-8011A	SILICONE 85 DUROMETER
M10	SETTING BLOCK, 75 +/-5 DURO	80-339A	SILICONE
M11	1/2" X 6 1/2"	REINFORCEMENT FOR VERTICAL MULLION	STEEL
M19	1/2" X 6 1/2" + 1/2" X 5" A36	REINFORCEMENT FOR VERTICAL	STEEL A36
M20	3/8"X6"X5" + 1/2"X6 1/2"	STEEL ANCHOR PLATE	STEEL A36
M21	SETTING BLOCK, 75 +/-5 DURO	ES-7530-B02A	SILICONE
M22	BACKER ROD @ HORIZONTAL	BACKER ROD 3/4"	OPEN CELL POLIETHYLENE FOAM
M23	SCREW FOR JAMB TUBE	#12 x 3/4" P.H	STAINLESS STEEL
M24	SCREW FOR VERTICAL PRESSURE PLATE	#10 x 1-3/4" H.W.H	STAINLESS STEEL
M25	SCREW FOR HORIZONTAL PRESSURE PLATE	#10 x 5/8" H.W.H	STAINLESS STEEL
M26	SCREW FOR COVER PRESSURE PLATE	#8 x 1/2" F.H. SELF DRILLER 18-8 SS	STAINLESS STEEL
M27	SILICONE GASKET .25" PUSH IN	WW7000-NE003	SILICONE
M28	SPACER	W5250-302	POLYAMIDE
M29	REINFORCEMENT FOR MULLION	0.688" X 6.5"	STEEL
M30	SCREW FOR REINFORCEMENT	#12 x 1 1/4" P.H SELF DRILLER 18-8SS	STAINLESS STEEL
M31	CRYLIC PSA FLB-22	CLEAR BUMPER W/A 1/2" X 1/4"	POLYURETHANE
M32	SPACER AT JAMB	ES-6025-G03A	SILICONE
M33	INTERIOR SPACER	ES-UN6740-G01 S	SILICONE
M34	REINFORCEMENT FOR JAMB	0.625" X 6.5"	STEEL
M35	0.375" X 6.5" X 7.25" # 0.5" X 5.625" X 6.5" STEEL ANGLE	STEEL ANCHOR PLATE	STEEL A36
M36	WEATHER SEALANT	DS-790	SILICONE

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