

SHANGHAI SUPERHOUSE BUILDING MATERIAL CO., LTD.
SPA100 FIXED WINDOW - L.M.I.

GENERAL NOTES:

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

- WINDOWS ARE RATED FOR LARGE MISSILE IMPACT. 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 8TH EDITION FLORIDA BUILDING CODE (2023) 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.

-SEALANTS:

ALL FRAME CORNERS, JOINTS, MULLION SEAMS AND PERIMETER GLAZING BEAD TO FRAME INSTALLATION FASTENERS SEALED WITH SILICON SEALANT.

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 OR WIND TUNNEL REPORTS.

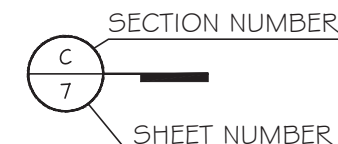
- STEP 2: SEE SHEET E I FOR TYPICAL WINDOW WALL ELEVATION. SEE SHEET G I FOR GLASS TYPES AND CAPACITY.

- STEP 3: SEE SHEET A1 FOR ANCHOR OPTIONS.

- STEP4: THE LOWEST VALUE RESULTING FROM STEPS 2 THAT EXCEED THE DESIGN WIND PRESSURES DETERMINED THOUGH STEP 1 SHALL APPLY TO ENTIRE SYSTEM

ABBREVIATIONS AND SYMBOLS

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



FLORIDA APPROVAL:

FL#47204.1



February 12th, 2025

SPA100 FIXED WINDOW SYSTEM - L.M.I.

SHANGHAI SUPERHOUSE BUILDING MATERIAL CO., LTD
LEVEL 5, BUILDING 10, NO.8666 HUNAN RD, PUDONG NEW AREA
Shanghai, China
TEL 86 021 5922 0630 CEI 86 125 9572 3600

Shanghai, China
TEL.86 021-5822 0630 CELL.86 135-8572-3609

MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PKWY. STE. 301

MIRAMAR, FL 33027

www.MCYEngineering.com mcy@mcyengineering.com

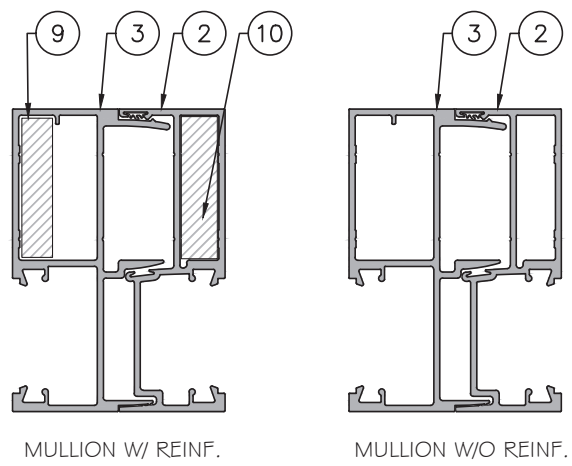
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Drawn Date	SCALE
12.24.2024	AS SHOWN

DRAWING NO.
AD24-37

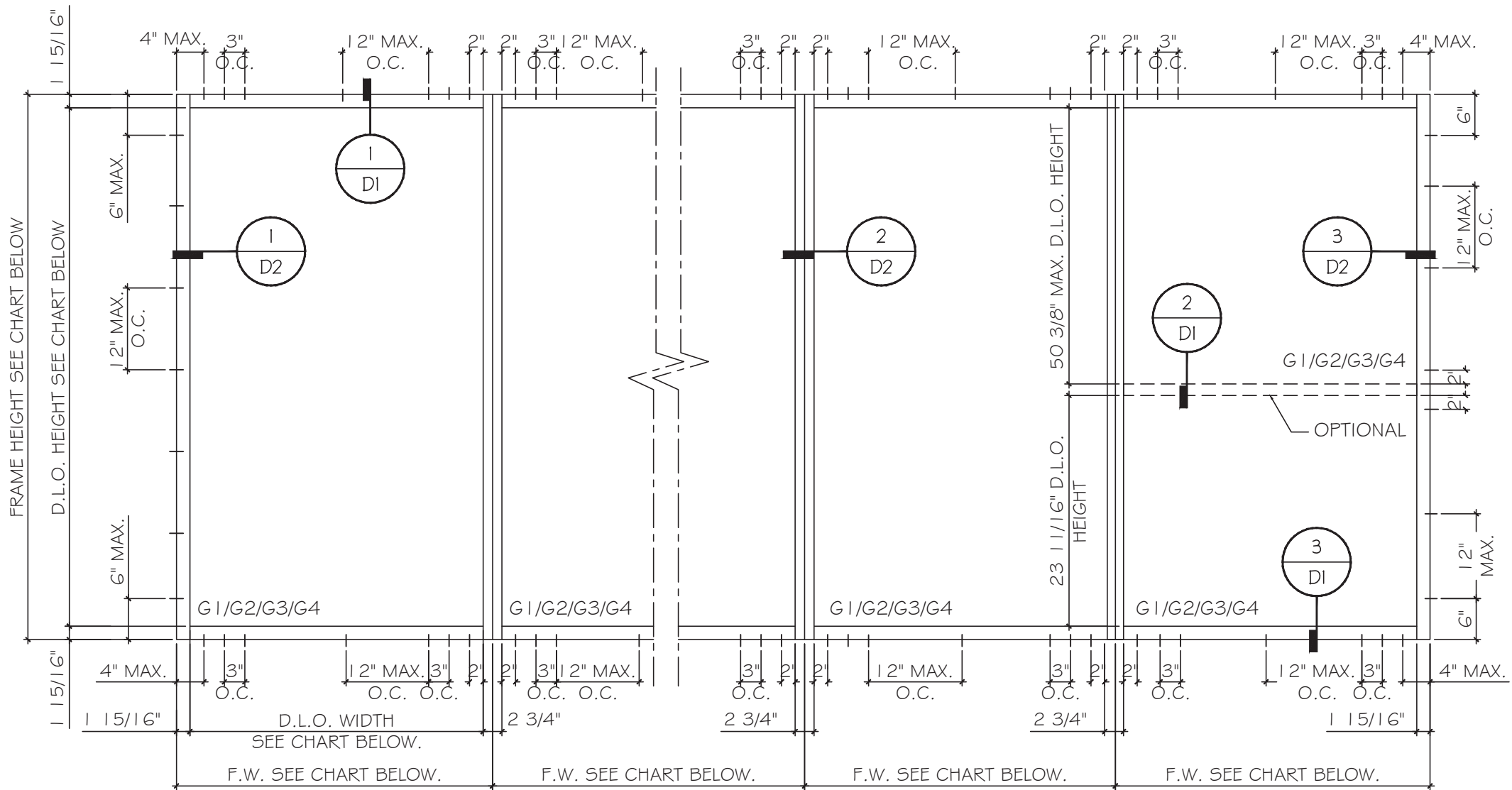
COVER

Sheet No.



CAPACITY CHART - PSF.						
MAX. WINDOW SIZE		MULLION REINF.	MAX. GLASS SIZE		GLASS TYPE	MAX. PRESSURE (PSF)
F.W.	F.H.		D.L.O. W	D.L.O. H		
45 3/4"	80"	YES	43"	76 1/16"	G1/G2	+115/-115
45 3/4"	90"	NO	43"	86 1/16"	G1/G2/G3/G4	+65/-65

NOTE:
FOR SIZES SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC.
FRAME HEIGHT = D.L.O. H + 3 15/16".
FRAME WIDTH = D.L.O. W + 2 3/4" (@ MULLION).
FRAME WIDTH = D.L.O. W + 3 3/8" (@ JAMB).



TYPICAL EXTERIOR ELEVATIONS

FLORIDA APPROVAL:
FL#47204.1

Professional Engineer Seal for YIN WANG, P.E., State of Florida, License No. 55983. The seal includes the text 'YIN WANG, P.E.', 'FLORIDA REGISTRATION', 'FL #55983', 'C.A.N. 559877', and 'STATE OF FLORIDA PROFESSIONAL ENGINEER'. The date 'February 12th, 2025' is stamped at the bottom.

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GLAZING CONSULTANTS

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P: 305 271-0117

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TEL.86 021-5822 0630 CELL.86 135-8572-3609

Rev. No.	Date	Drawn By	Description
01	12.24.2024	James	NEW PRODUCT APPLICATION

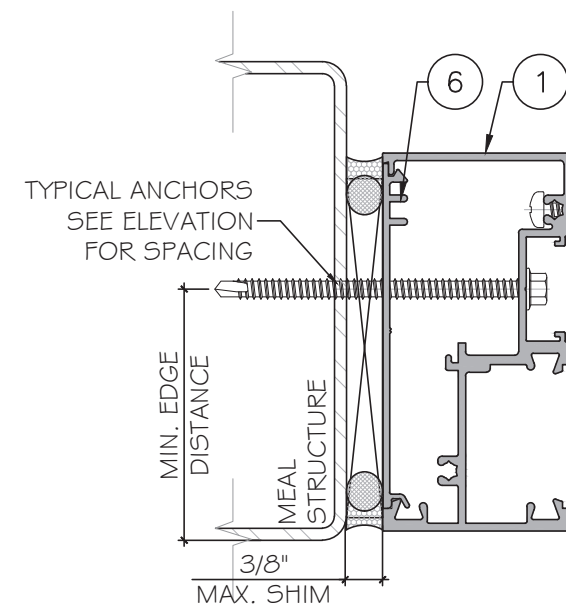
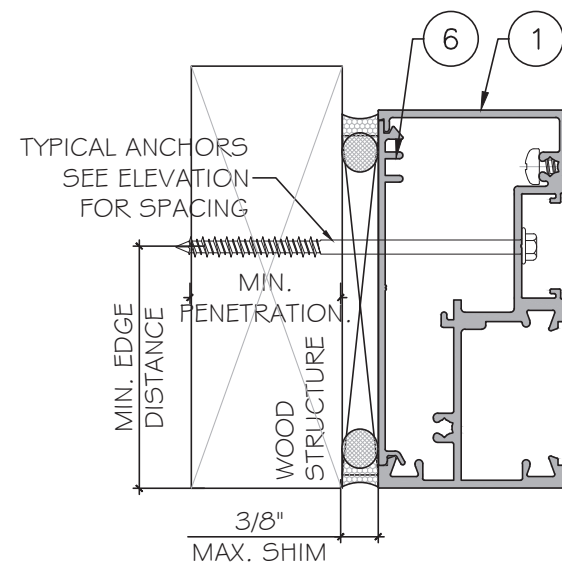
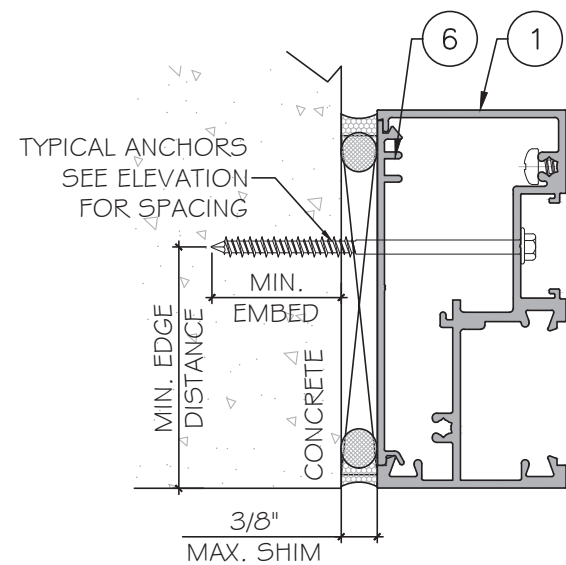
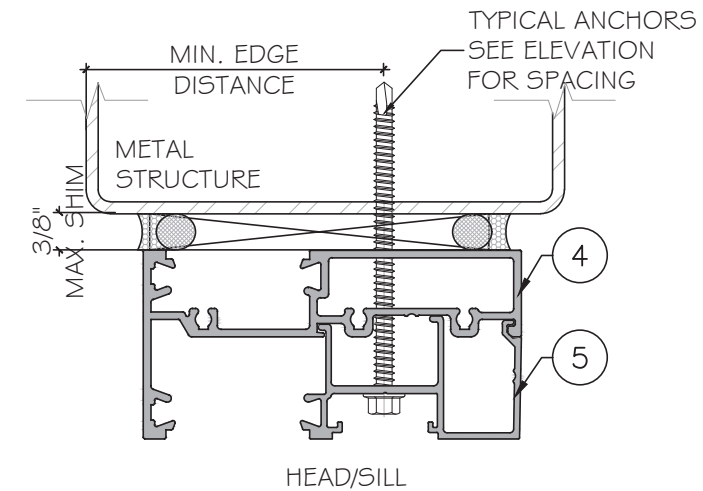
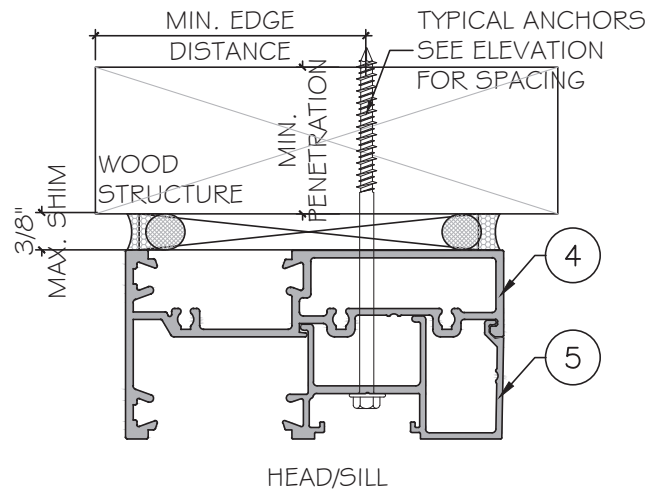
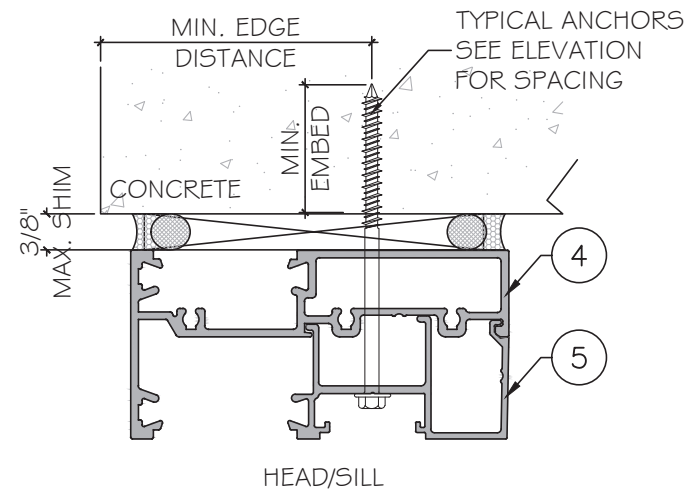
Drawn Date
12.24.2024

SCALE
AS SHOWN

DRAWING NO.
AD24-37

Sheet No.
2 OF 8

E1



TYPICAL ANCHOR TYPES: SEE ELEVATIONS FOR SPACING

TYPE "A": 1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u=164$ KSI, $F_y=148$ KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURE
 WITH 1 1/2" MIN. PENETRATION INTO WOOD (HEAD/ SILL/ JAMB)

TYPE "B": 1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u=164$ KSI, $F_y=148$ KSI)
 WITH 1 3/4" MIN. EMBED INTO CONCRETE. (HEAD/ SILL/ JAMB)
 WITH 1 3/4" MIN. EMBED INTO GROUT FILLED BLOCK. (JAMB ONLY)

TYPE "C": 1/4" TEKS OR SELF DRILLING SCREW(GRADE 5) ($F_u=120$ KSI, $F_y=90$ KSI)
 INTO METAL STRUCTURE OR FLORIDA APPROVED MULLIONS. (HEAD/JAMB/SILL)
 (3) THREAD MIN PENETRATION BEYOND METAL STRUCTURE.
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PANTED).

TYPICAL ANCHOR EDGE DISTANCE:
 INTO CONCRETE AND MASONRY = 2 1/2" MIN.
 INTO WOOD STRUCTURE = 1" MIN.
 INTO METAL STRUCTURE = 3/4" MIN.

WOOD SG = 0.55 MIN.
 CONCRETE $f'_c = 3000$ PSI MIN.
 C-90 GROUT FILLED BLOCK AT JAMBS, $f'_m=2$ ksi MIN.
 STEEL: 12 GA. MIN. ($F_y=36$ KSI MIN.)
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)

GLAZING BEAD AT FRAME SILL SEALED TO GLASS WITH DOW CORNING 983.
 FRAME CORNERS SEALED WITH DOW CORNING 999 OR EQUAL COMPATIBLE

NOTE: WOOD BUCKS/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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SHANGHAI SUPERHOUSE BUILDING MATERIAL CO., LTD
 LEVEL 5, BUILDING 10, NO.8666 HUNAN RD, PUDONG NEW AREA
 Shanghai, China

TEL.86 021-5822 0630 CELL.86 135-8572-3609

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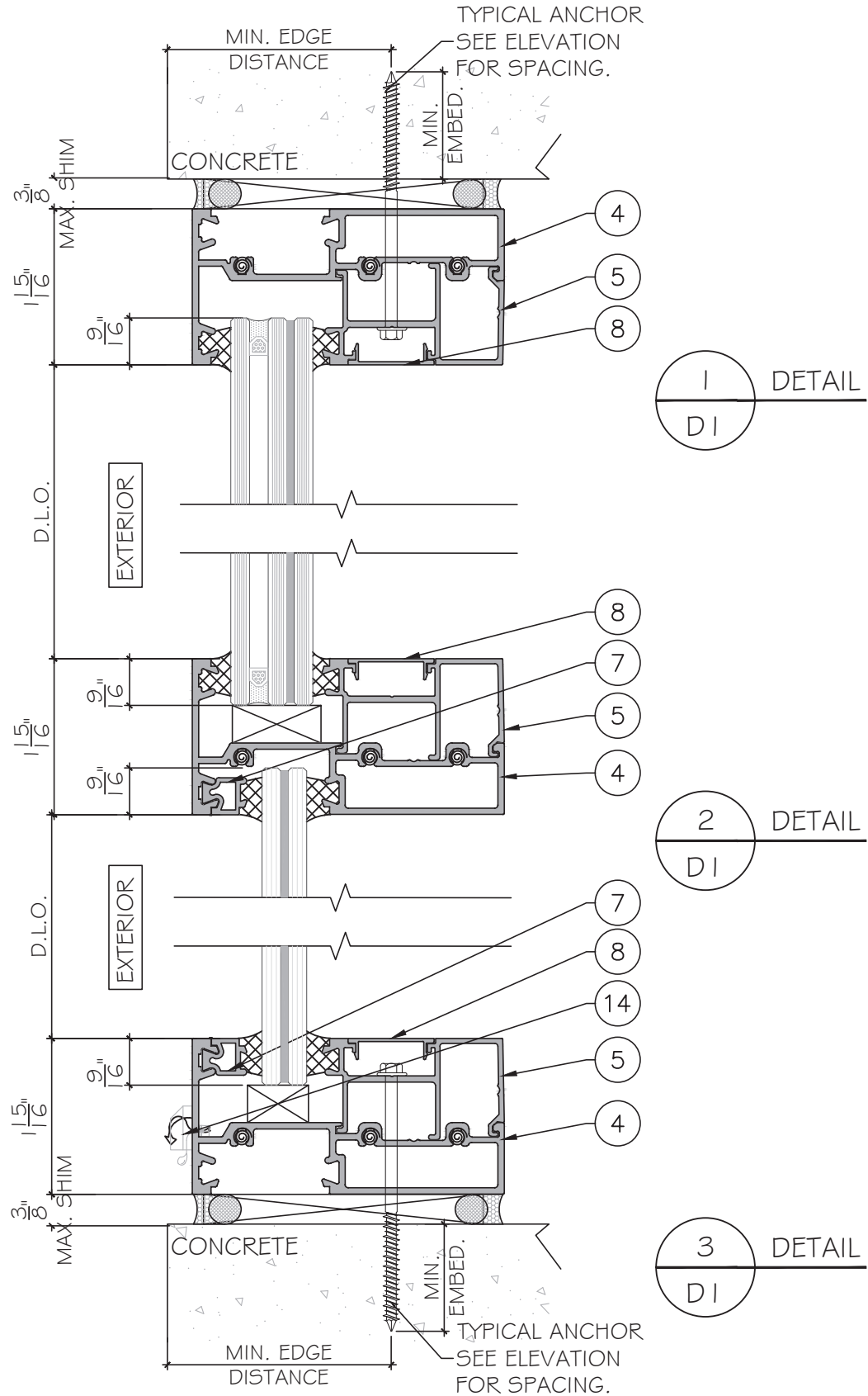
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mcy@mcyengineering.com

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01	12.24.2024	James	NEW PRODUCT APPLICATION
Drawing Date: 12.24.2024			
SCALE: AS SHOWN			
DRAWING NO. AD24-37			
A1			
Sheet No. 4 OF 8			



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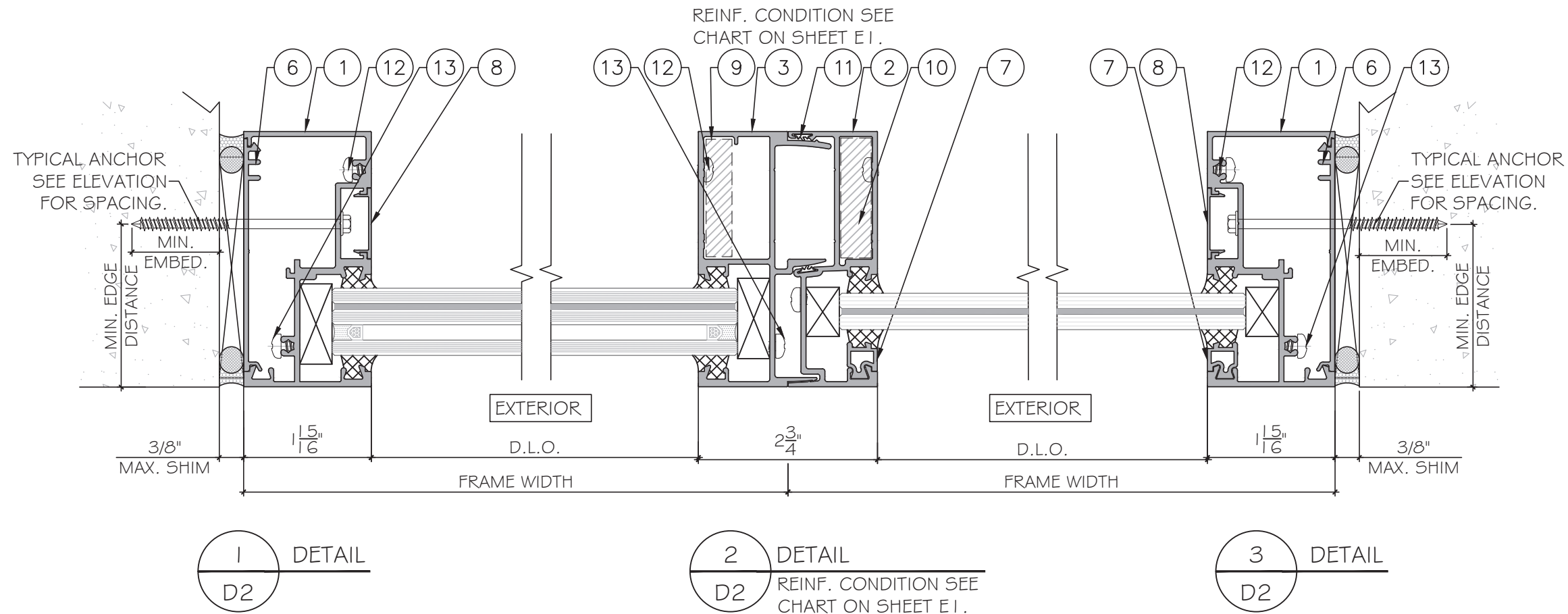
YIN WANG, P.E.
FLORIDA REGISTRATION
FL #55983
C.A.N. 55983

February 12th, 2025

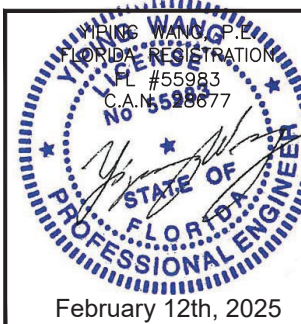
Drawn Date 12.24.2024		SCALE AS SHOWN	
DRAWING NO. AD24-37		Sheet No. 5 OF 8	
D1			
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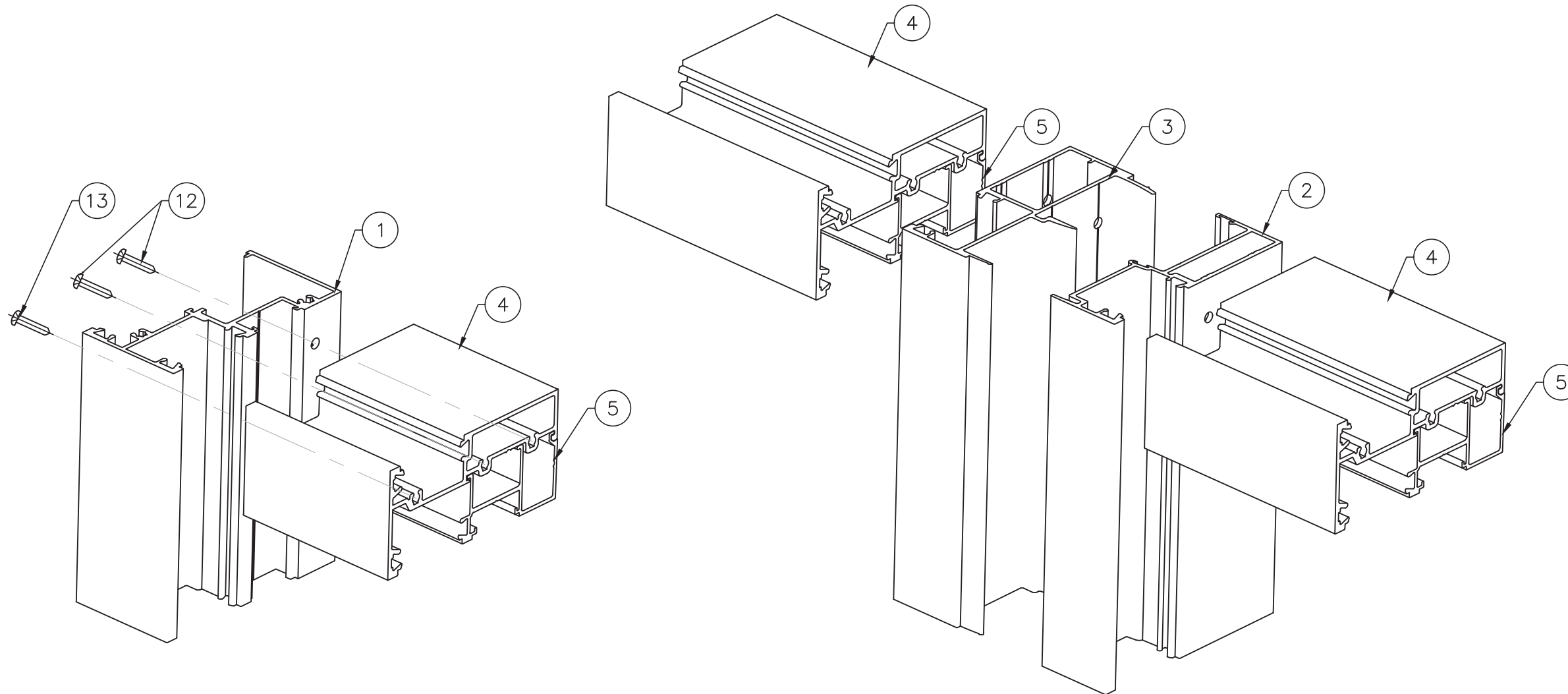


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BILL OF MATERIALS			
ITEM	PART	DESCRIPTION	MATERIAL
1	SPA10001A	FRAME	ALUM. 6063-T5
2	SPA10002A	FEMALE MULLION	ALUM. 6063-T6
3	SPA10003A	MALE MULLION	ALUM. 6063-T6
4	SPA10004	HEAD&SILL FRAME	ALUM. 6063-T5
5	SPA10005A	GLASS STOP	ALUM. 6063-T5
6	SPA10007	JAMB FILLER	ALUM. 6063-T5
7	SPA10016	LAM GLASS POCKET	ALUM. 6063-T5
8	SPA13006	COVER	ALUM. 6063-T5
9	-	0.39" x 1.850" STEEL REINF	STEEL. A36.
10	-	0.47" x 1.850" STEEL REINF	STEEL. A36.
11	SBWG-26162	EPDM GASKET . DUROMETER 70±5 SHORE A	EPDM
12	-	ASSEMBLY SCREW #12 X 1 1/4". S.S. SCREW	410 STAINLESS STEEL
13	-	ASSEMBLY SCREW #12 X 2 3/8". S.S. SCREW	410 STAINLESS STEEL
14	WHCO1	WEEP HOLE COVER	-
15	-	EPDM SETTING BLOCK, 1 5/32" X 1". 80±5 SHORE A.	EPDM
16	-	SILICONE DOWSIL 995	SILICONE



YIP WANG P.E.
FLORIDA REGISTRATION
FL #55983
C.A.N. 528677

STATE OF
FLORIDA
PROFESSIONAL ENGINEER

February 12th, 2025

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