

SHANGHAI SUPERHOUSE BUILDING MATERIAL CO., LTD.
SPA 150 WINDOW WALL SYSTEM - 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).
- PANELS ARE RATED FOR LARGE MISSILE IMPACT. LMI SYSTEM TO BE USED FOR INSTALLATIONS UP TO 30 FT OF GRADE. FOR ABOVE 30 FT OF GRADE, SMI TO BE USED. IMPACT SHUTTERS ARE NOT REQUIRED.
- THESE PANELS 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:

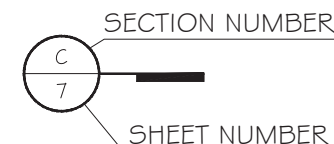
ALL FRAME CORNERS, JOINTS, MULLION SEAMS AND PERIMETER GLAZING BEAD TO FRAME INSTALLATION FASTENERS SEALED WITH SILICON SEALANT.

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 E1 AND E2 FOR TYPICAL WINDOW WALL ELEVATION. SEE SHEET G1 FOR GLASS TYPES AND CAPACITY.
- STEP 3: SEE SHEET A1 FOR ANCHOR OPTIONS. SEE SHEET A2 FOR ANCHOR CAPACITY.
- STEP 4: THE LOWEST VALUE RESULTING FROM STEPS 2 THAT EXCEED THE DESIGN WIND PRESSURES DETERMINED THROUGH STEP 1 SHALL APPLY TO ENTIRE SYSTEM

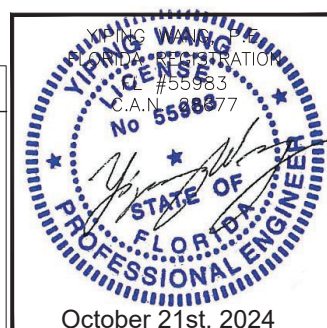
ABBREVIATIONS AND SYMBOLS

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#29474.1

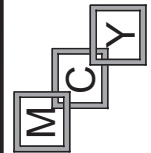
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MCY ENGINEERING, INC.



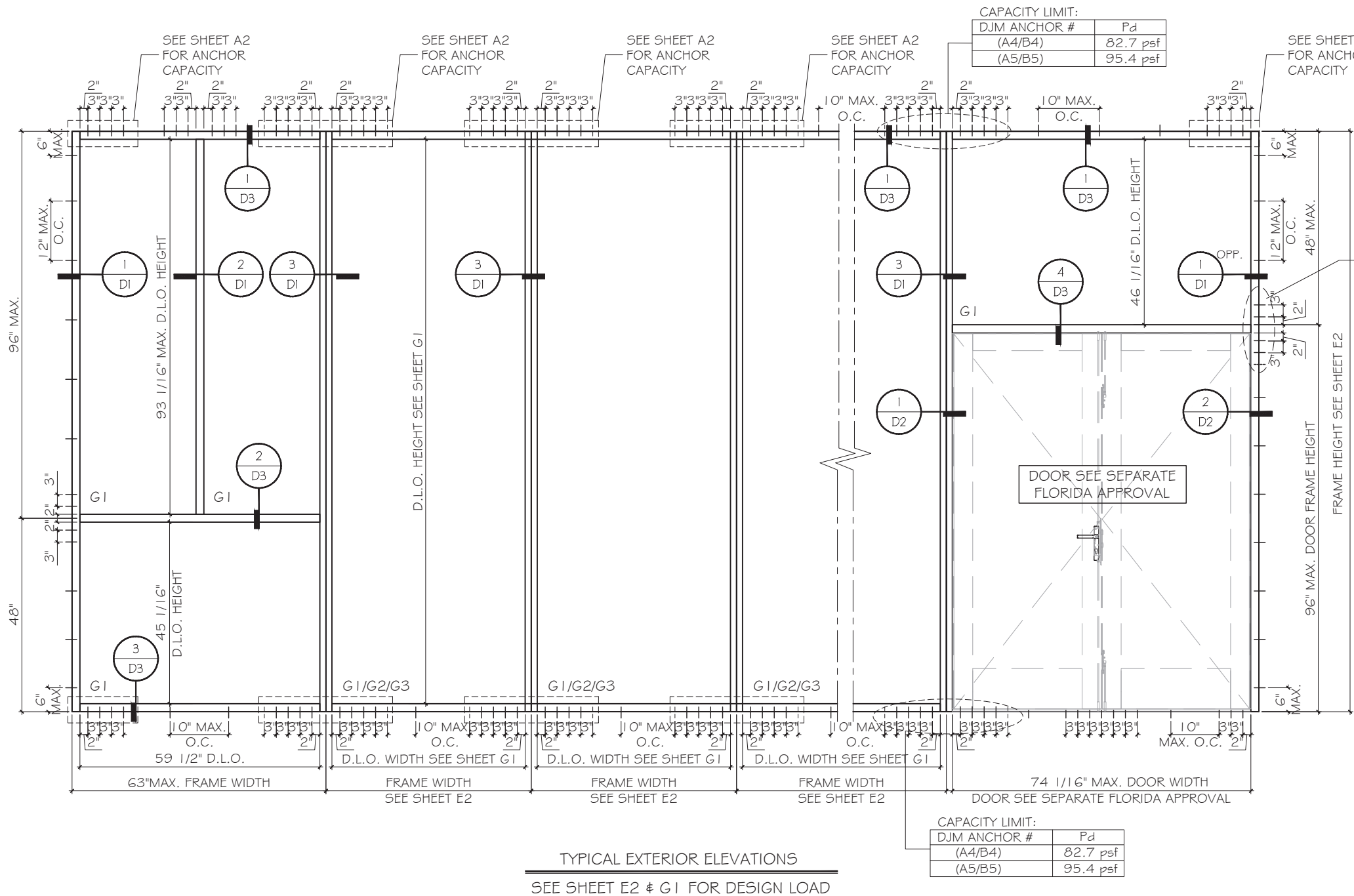
ENGINEERING, GLAZING CONSULTANTS

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CAPACITY LIMIT:	
DJM ANCHOR #	Pd
(A4/B4)	82.7 psf
(A5/B5)	95.4 psf

CAPACITY LIMIT:	
# OF ANCHOR	Pd
(4)	82.7 psf
(5)	96 psf

CAPACITY LIMIT:	
DJM ANCHOR #	Pd
(A4/B4)	82.7 psf
(A5/B5)	95.4 psf

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October 21st, 2024

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03	10.16.2024	James	REVISION
02	08.15.2023	James	FBG 2023
01	02.26.2022	James	NEW PRODUCT APPLICATION

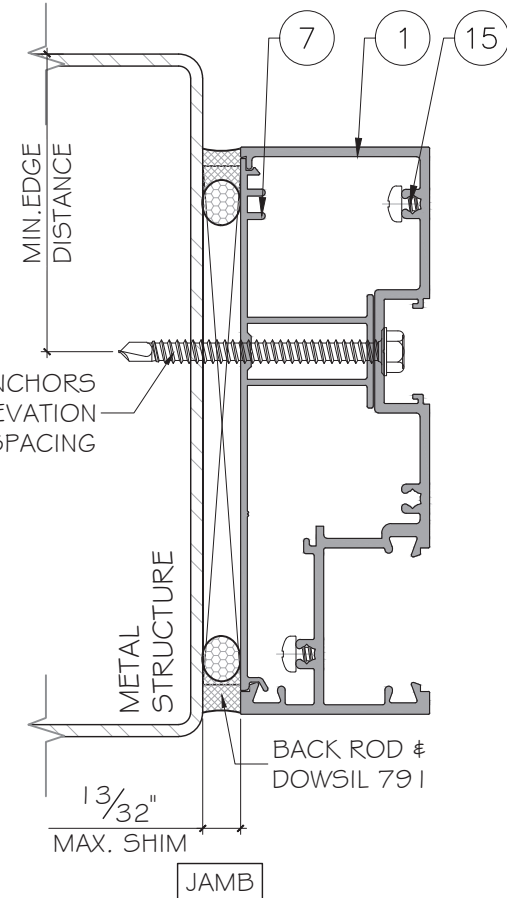
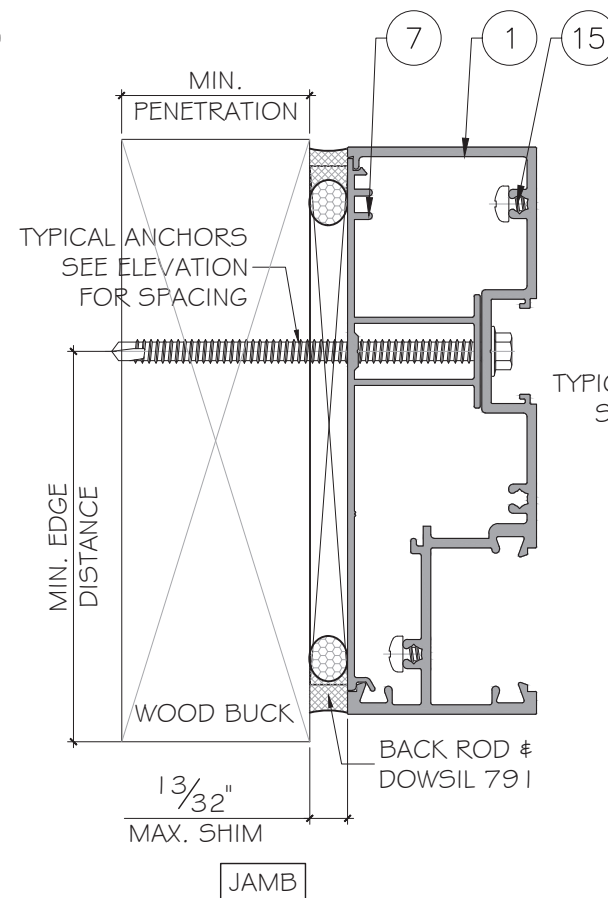
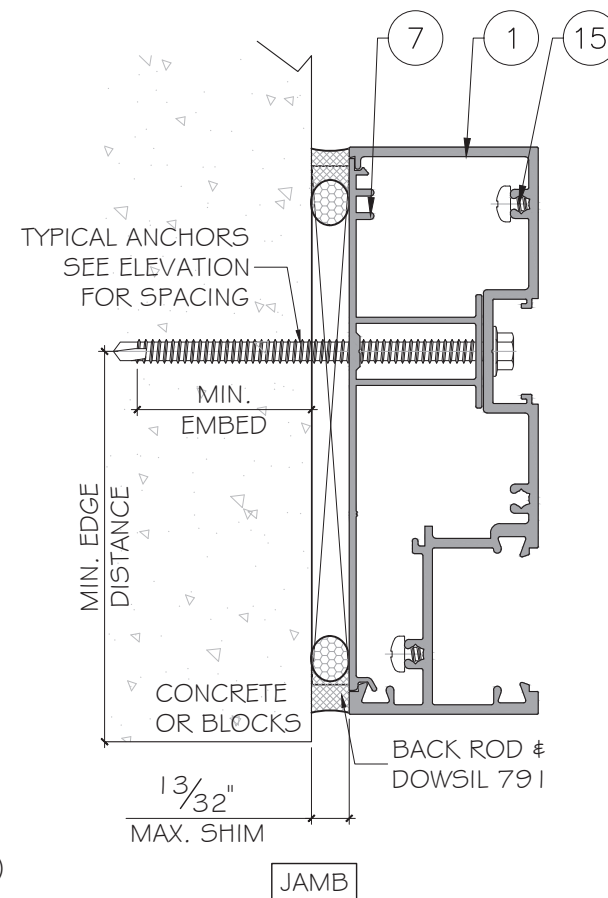
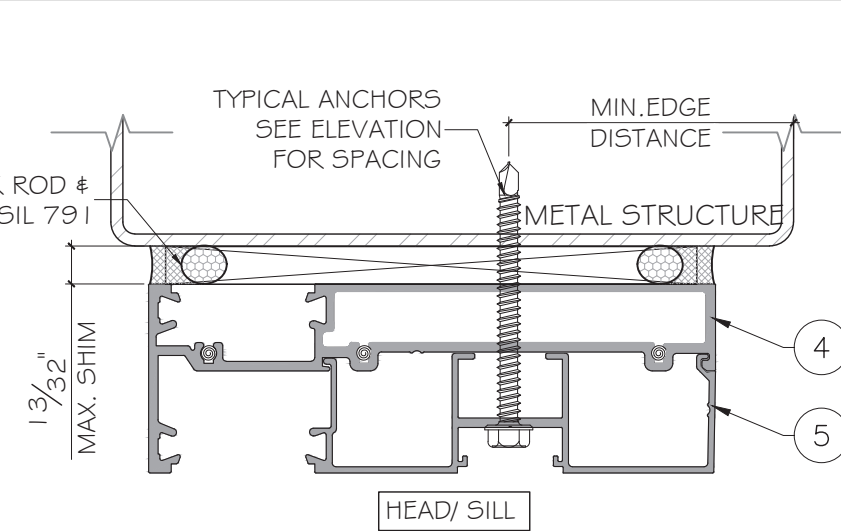
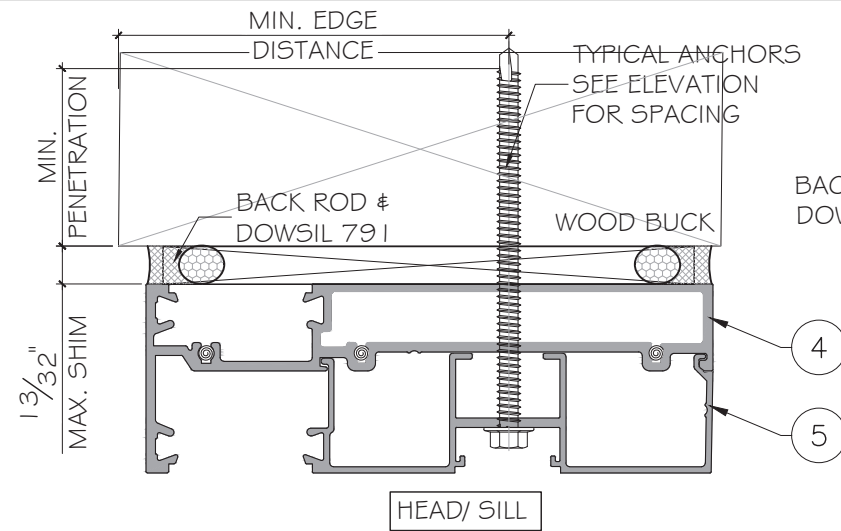
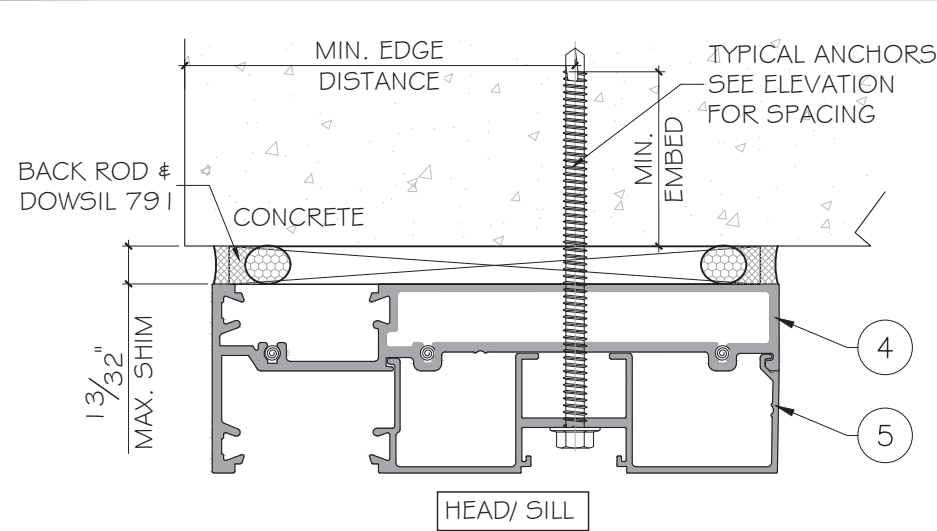
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AD22-02

Sheet No.
E1

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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)

THRU 1BY WOOD BUCK INTO CONCRETE
WITH 1 3/4" MIN. EMBED INTO CONCRETE (HEAD/ SILL/ JAMB)
WITH 1 3/4" MIN. EMBED INTO BLOCKS (JAMB ONLY)

TYPE "B": 1/4" TEKS OR SELF DRILLING SCREW(GRADE 5) (F_u=120 KSI, F_y=90 KSI)
INTO APPROVED MULLIONS
(1/8" THK. MIN.) INTO METAL STRUCTURE

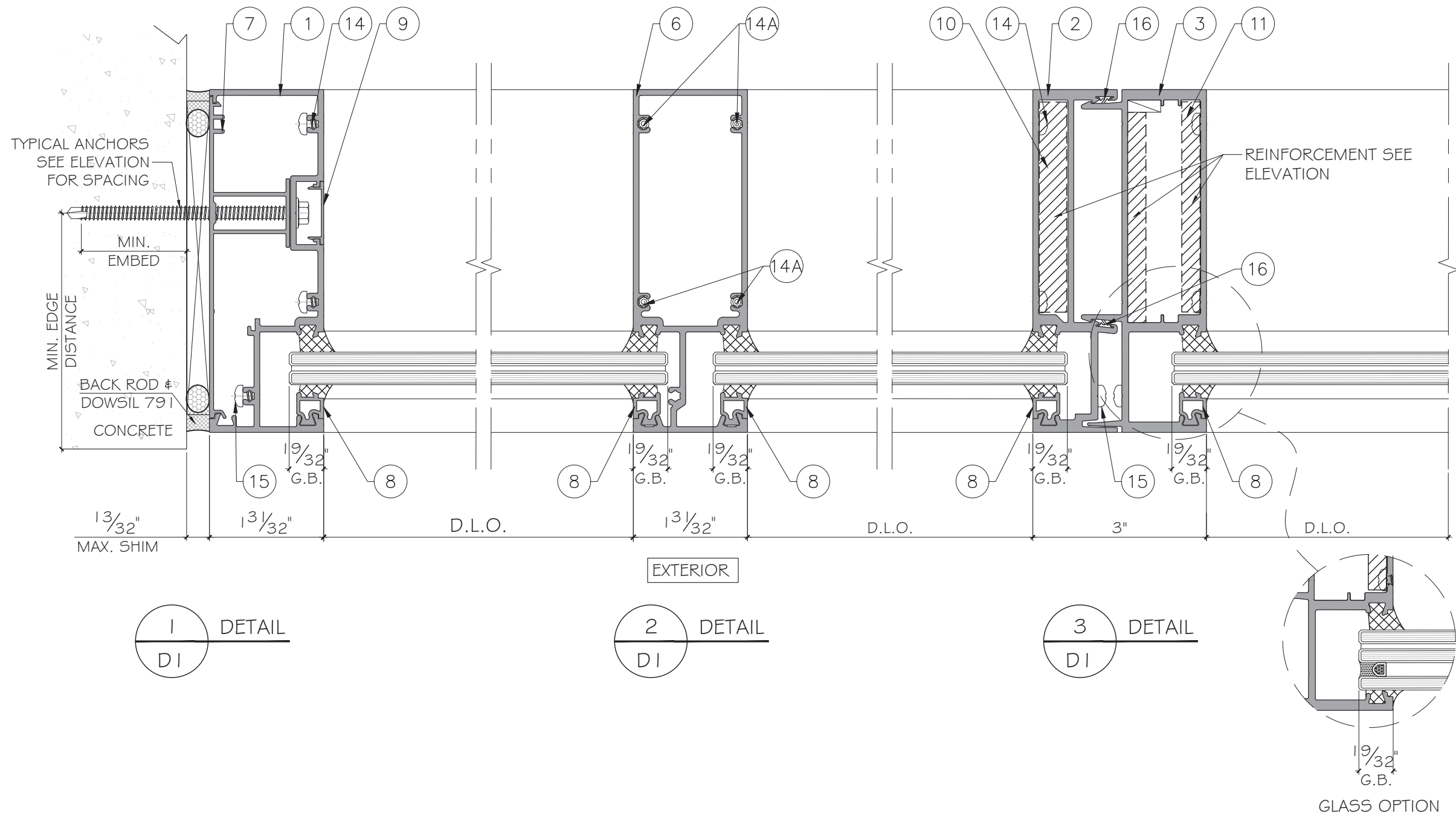
STEEL: 12 GA. MIN. (F_y=36 KSI MIN.)
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PANTED)

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

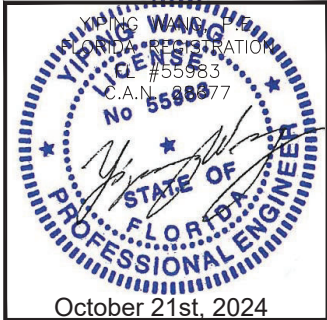
WOOD SG = 0.55 MIN.
CONCRETE f_c = 3000 PSI MIN.

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





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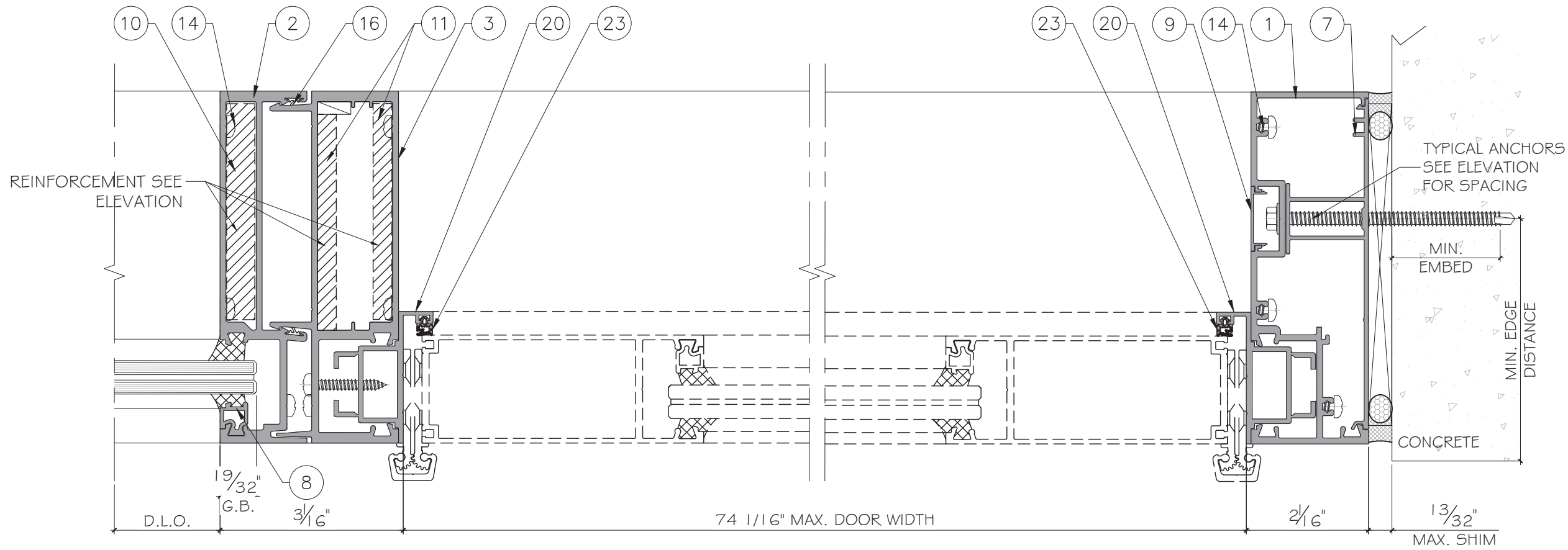
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AD22-02

D1

Sheet No.
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1
D2
DETAIL

EXTERIOR

2
D2
DETAIL

FLORIDA APPROVAL:
FL#29474.1

Professional Engineer Seal for YIPING WANG, State of Florida, License No. 55983, dated October 21st, 2024.

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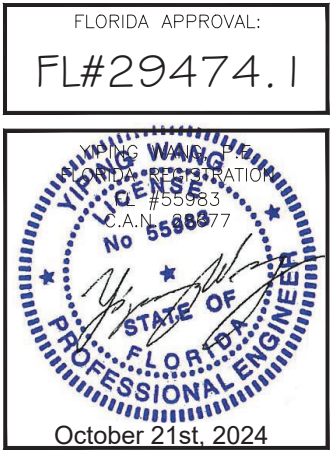
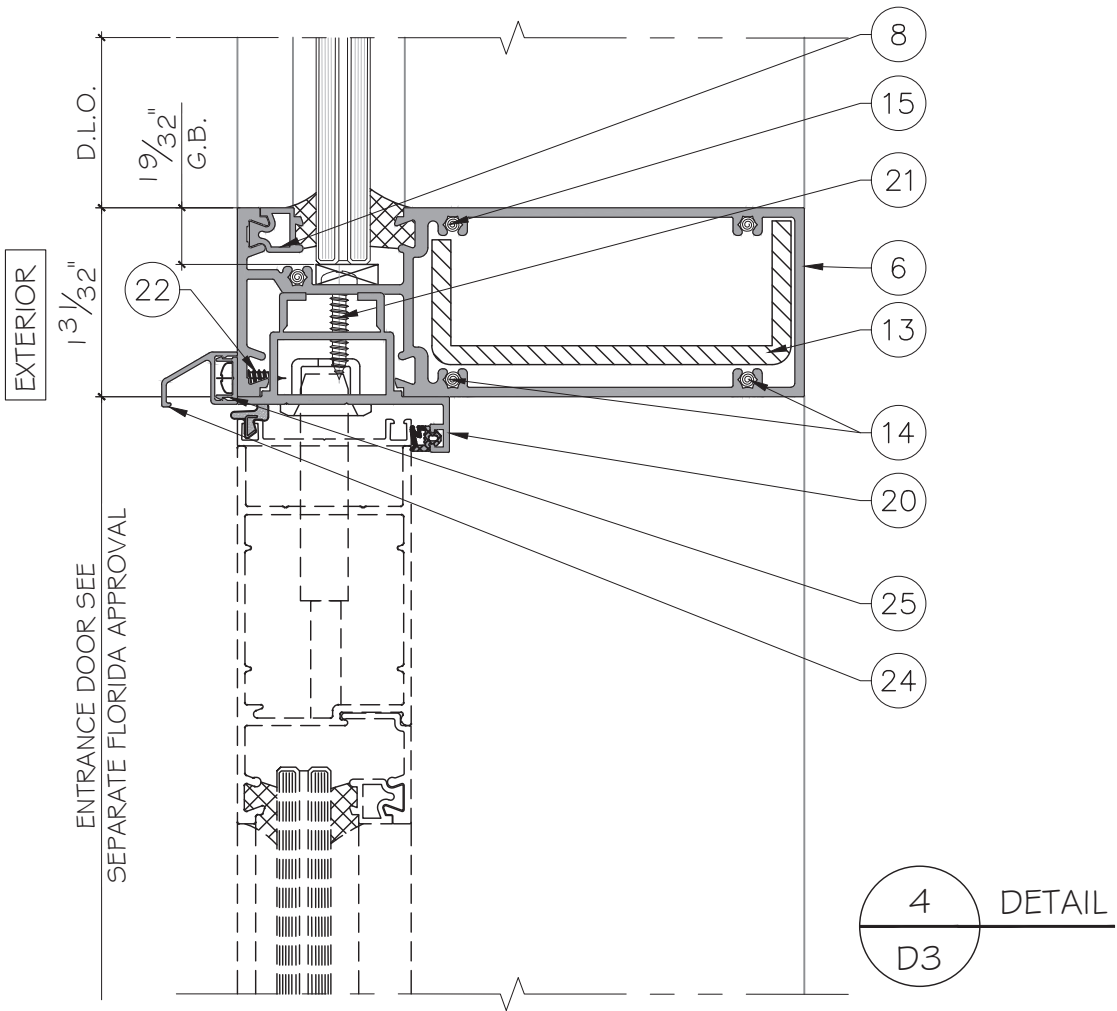
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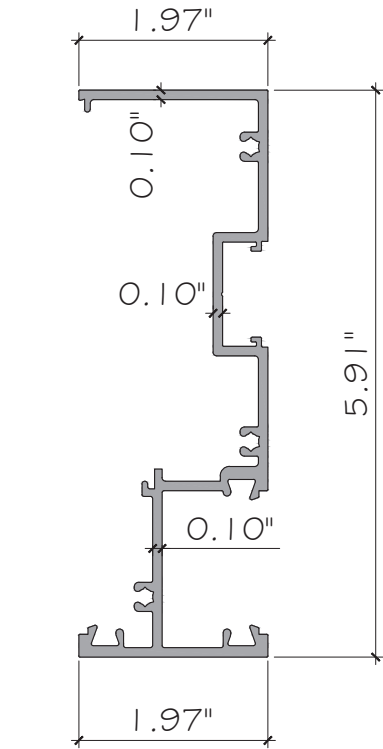
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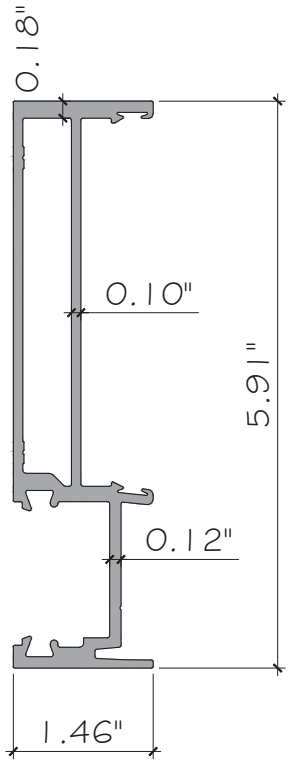
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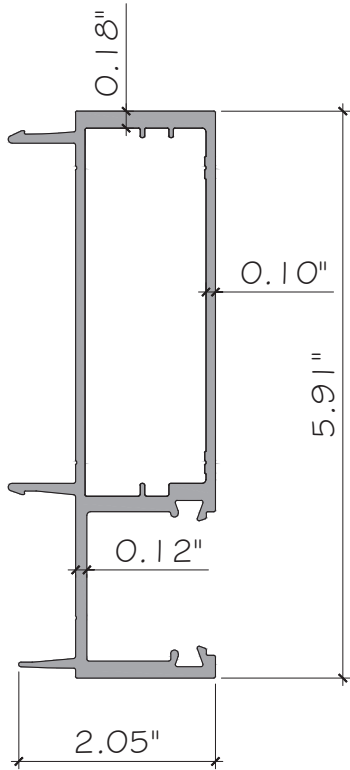
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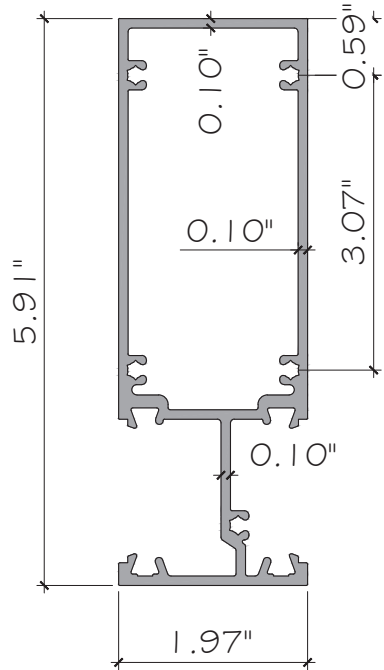
1 FRAME SPA15001A
ALUM.6063-T6



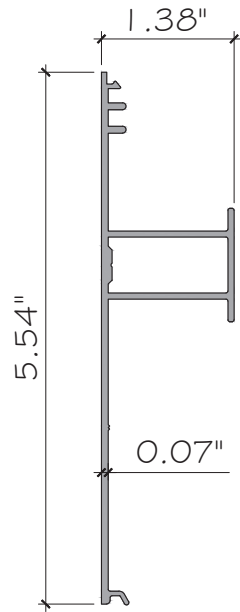
2 FEMALE MULLION SPA15002B
ALUM.6063-T6



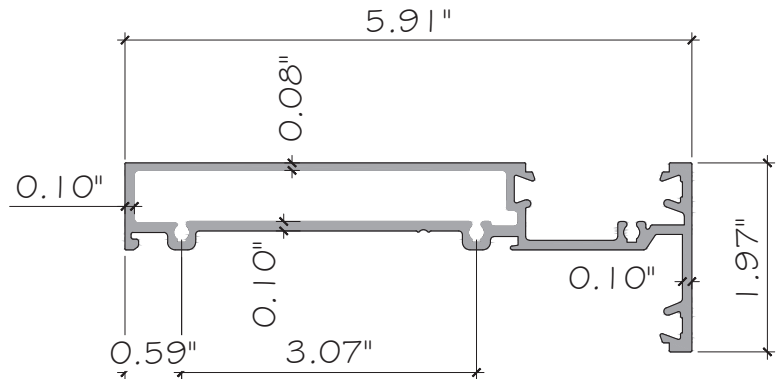
3 MALE MULLION SPA15003A
ALUM.6063-T6



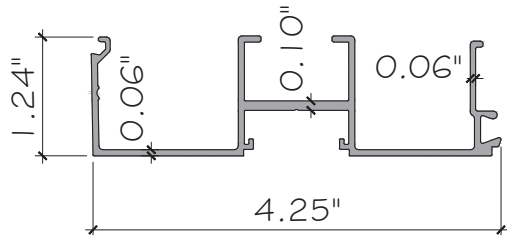
6 MULLION SPA15041
ALUM.6063-T6



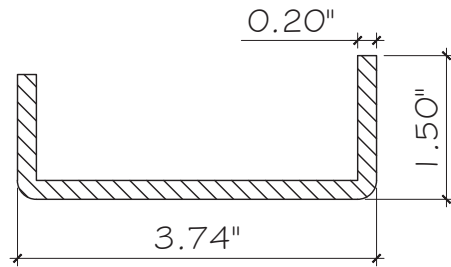
7 JAMB FILLER SPA15007A
ALUM.6063-T6



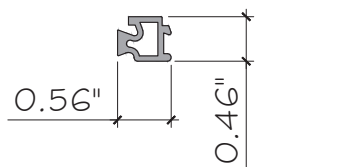
4 HEAD & SILL FRAME SPA15004
ALUM.6063-T6



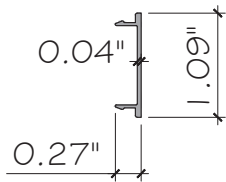
5 GLASS STOP SPA15015
ALUM.6063-T6



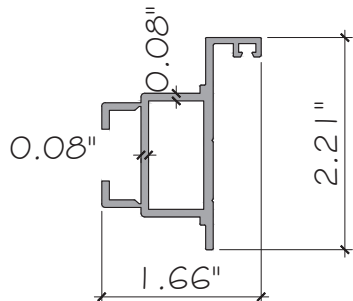
13 REINFORCING
STEEL



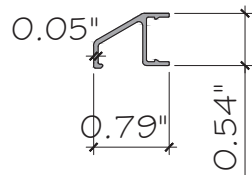
8 LAM. GLASS POCKET
SPA10016
ALUM.6063-T5



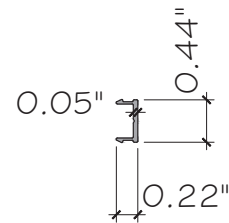
9 COVER SPA13006
ALUM.6063-T5



20 DOOR ADAPTOR SPA10013A
ALUM.6063-T6



24 CORNICE
JNSP10006
ALUM.6063-T5



25 CORNICE
JNSP10006
ALUM.6063-T5

FLORIDA APPROVAL:
FL#29474.1

YIPANG WANG
REGISTERED PROFESSIONAL ENGINEER
No. 55983
C.A.N. 8877

October 21st, 2024

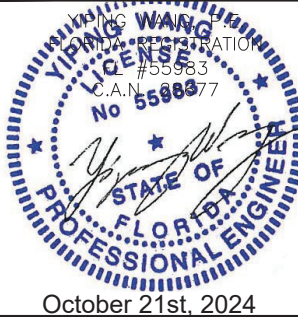
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James	02.26.2022	NEW PRODUCT APPLICATION
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PARTS		
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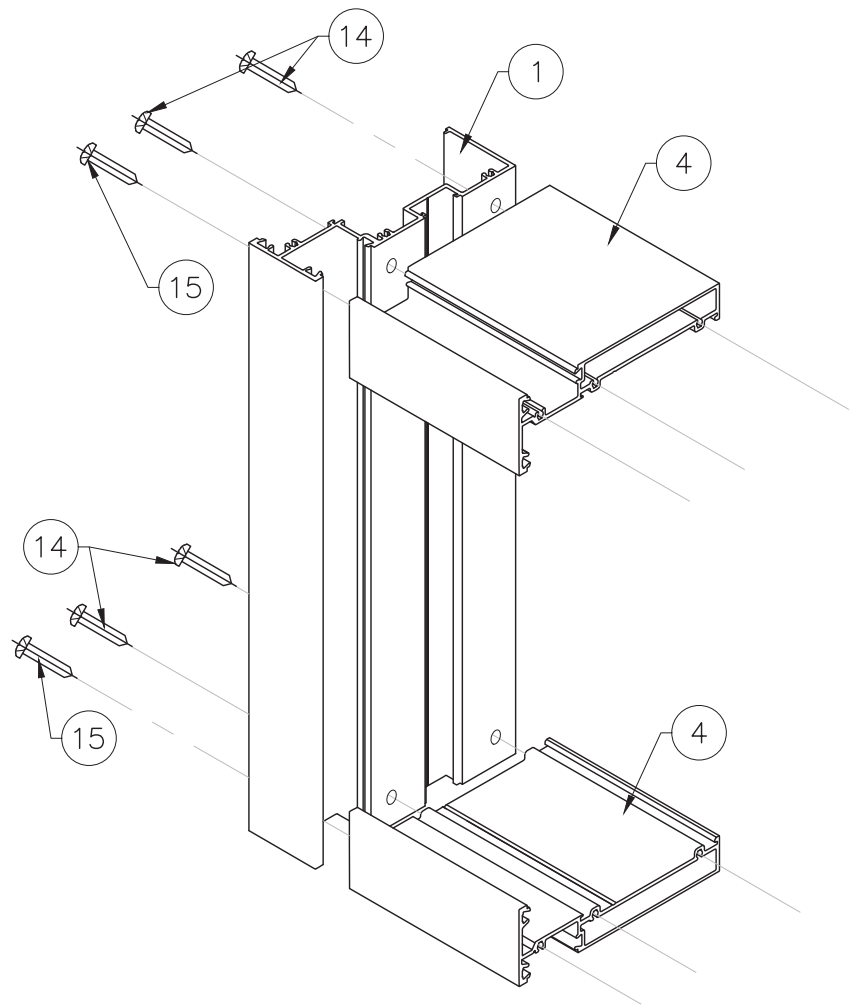
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BILL OF MATERIALS			
ITEM	PART	DESCRIPTION	MATERIAL
1	SPA15001A	JAMB	ALUM. 6063-T6
2	SPA15002B	FEMALE MULLION	ALUM. 6063-T6
3	SPA15003A	MALE MULLION	ALUM. 6063-T6
4	SPA15004	HEAD / SILL / INTERMEDIATE HORIZONTAL	ALUM. 6063-T6
5	SPA15005	GLASS STOP	ALUM. 6063-T6
6	SPA15041	MULLION	ALUM. 6063-T6
7	SPA15007A	JAMB FILLER	ALUM. 6063-T6
8	SPA10017	LAM. GLASS POCKET	ALUM. 6063-T5
9	SPA13006	COVER	ALUM. 6063-T5
10	-	REINFORCING BAR, 3.62" X 0.47"	STEEL
11	-	REINFORCING BAR, 3.62" X 0.31"	STEEL
12	-	REINFORCING BAR, 3.82" X 0.47"	STEEL
13	-	REINFORCING BAR, 3.74" X 1.50" X 0.20"	STEEL
14	-	FRAME ASSEMBLY PAN HEAD SCREWS #12 X 1 1/4"	410 STAINLESS STEEL
14A	-	FRAME ASSEMBLY COUNTERSUNK HEAD SCREWS #12 X 1 3/4"	410 STAINLESS STEEL
15	-	FRAME ASSEMBLY PAN HEAD SCREWS #12 X 2 3/8"	410 STAINLESS STEEL
16	SBWG-26162	EPDM GASKET, ADUROMETER 70±5 SHORE A	EPDM
17	WHCO1	WEEP HOLE COVER	PVC
18	-	DOWSIL 995, STRUCTURAL SILICONE	SILICONE
19	-	SETTING BLOCK, 1 5/32" X 1". ADUROMETER 80±5 SHORE A.	EPDM
20	SPA10013A	DOOR ADAPTOR	ALUM. 6063-T6
21		FRAME ASSEMBLY SCREWS DIA.3/16" X 3 1/32"	410 STAINLESS STEEL
22		FRAME ASSEMBLY SCREWS DIA.5/32" X 1/2"	410 STAINLESS STEEL
23	SBWG-001	EPDM GASKET, ADUROMETER 70±5 SHORE A	EPDM
24	JNSP10006	CORNICE	ALUM. 6063-T5
25	JNSP10005	CLIP	ALUM. 6063-T5
26	SPA15001W	FRAME JOINT GASKET	3M

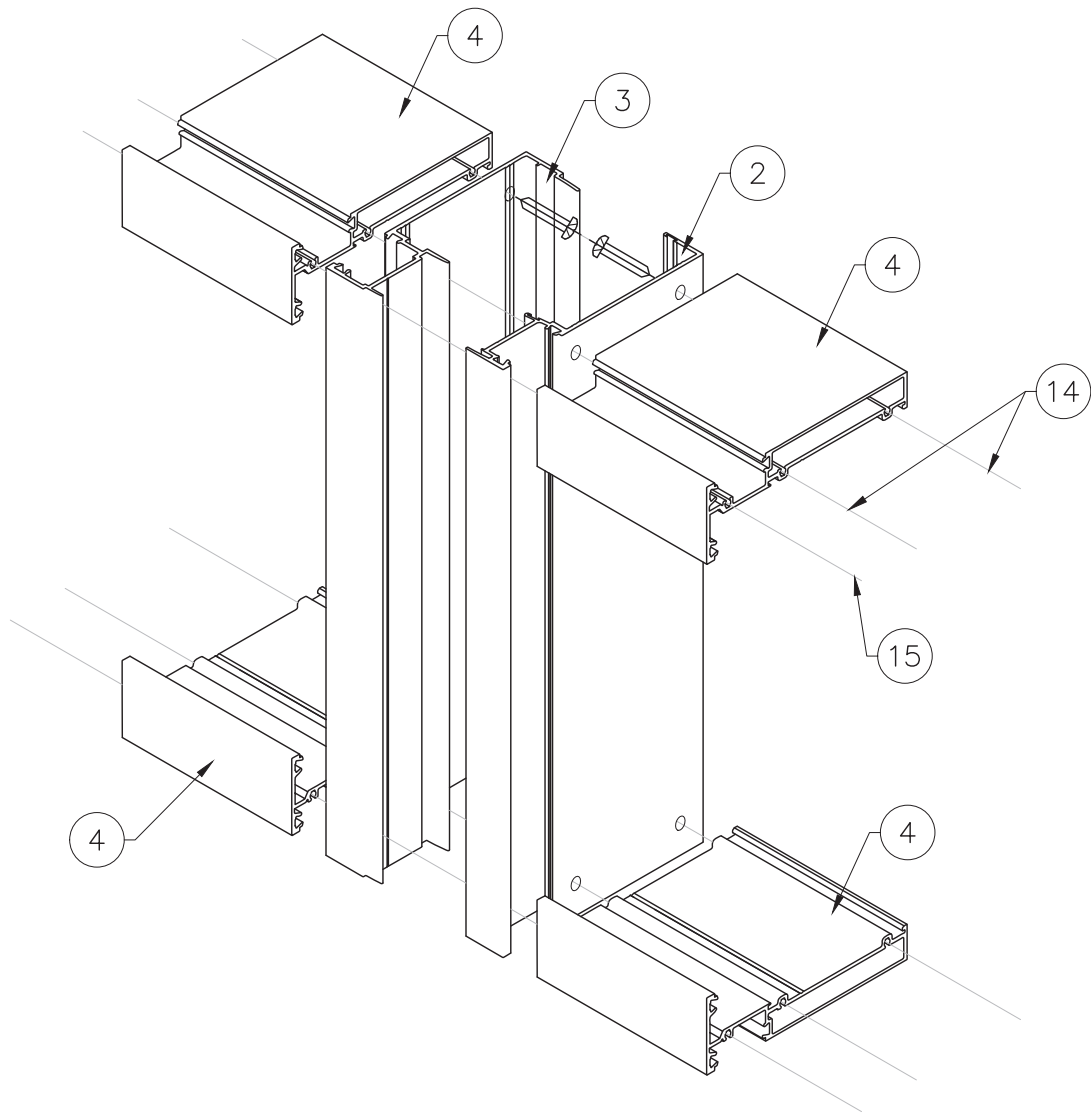
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JAMB CORNER ASSEMBLY



MULLION TO HORIZONTAL ASSEMBLY

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