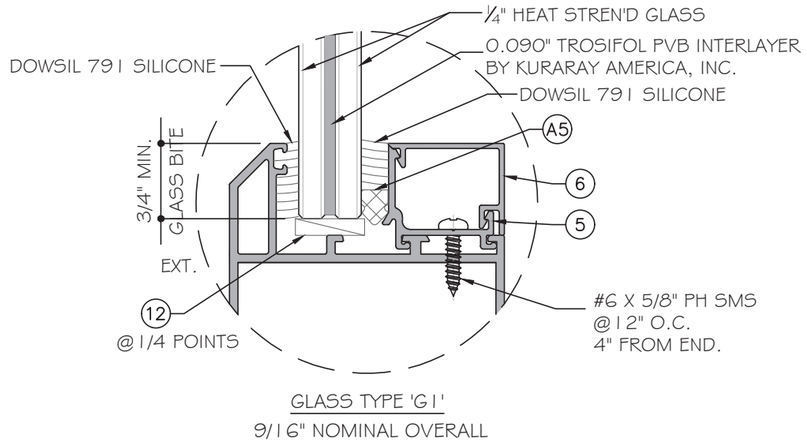
ELITE DOORS AND WINDOWS INC.
ALUMINUM BI-FOLD DOOR LARGE MISSILE IMPACT (L.M.I.) IMPACT LEVEL "D"



GLASS TYPE 'G1'
9/16" NOMINAL OVERALL

NOTE:
GLASS COMPLIES WITH ASTM E1300-09
(3 SEC. GUSTS).

GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 8TH EDITION (2023) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- DOORS ARE RATED FOR LARGE MISSILE IMPACT. LMI SYSTEM TO BE USED FOR INSTALLATIONS UP TO 30 FT OF GRADE. IMPACT SHUTTERS ARE NOT REQUIRED.
- THESE BI-FOLDING DOOR 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) 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.

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 GLASS OPTION ABOVE ON THIS COVER SHEET SEE SHEET E1 FOR APPROVED DOOR SIZE AND DESIGN LOAD CAPACITY BASED ON APPLICABLE WIND DURATION.

STEP 3: SEE ANCHOR TYPE ON SHEET A1. SEE SHEET E1 FOR ANCHOR REQUIREMENT.

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

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 ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.

E- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

FLORIDA APPROVAL:
FL47447

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

C / 7 — C: SECTION NUMBER; 7: SHEET NUMBER

YING WANG
FLORIDA REGISTRATION
LICENSE
No 55983
STATE OF FLORIDA
PROFESSIONAL ENGINEER
C.A.N. 28877
April 11th, 2025

MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PARKWAY #301
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ALUMINUM BI-FOLD DOOR- L.M.I.

ELITE DOORS AND WINDOWS, INC.
4780 CORONA AVENUE, VERNON, CALIFORNIA 90058
TEL.310 487 3334
EMAIL: Gino@elitedoorswindows.com

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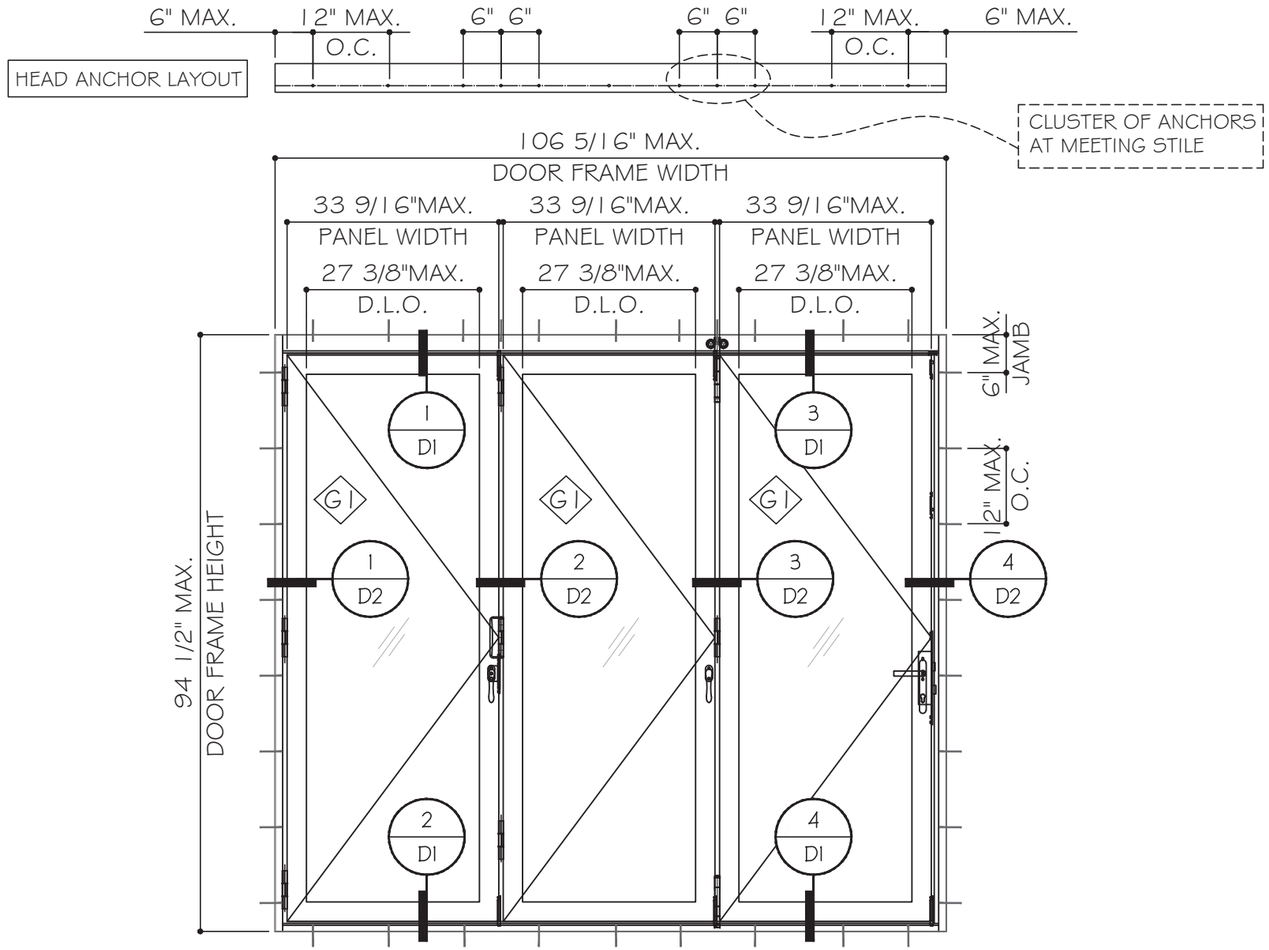
DRAWING NO.
AD25-28

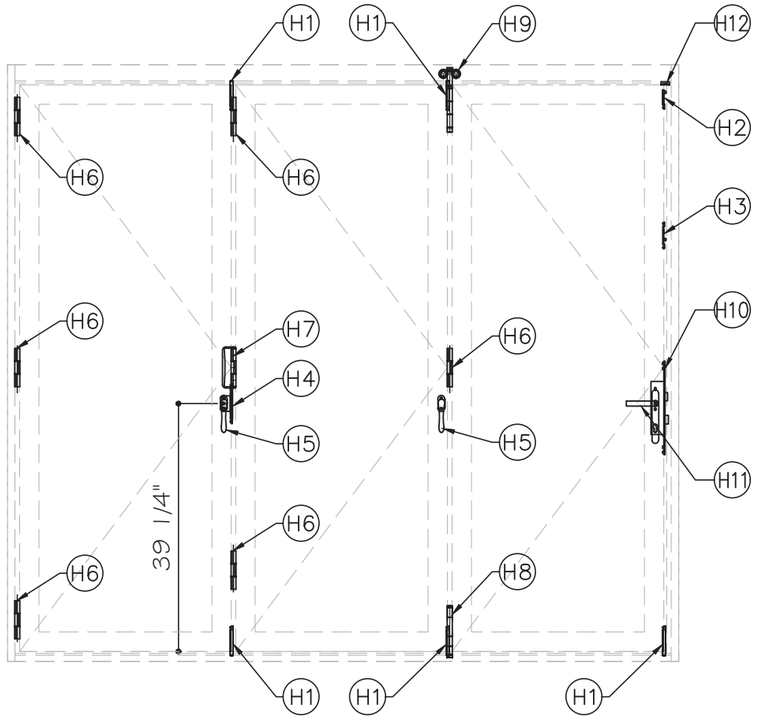
COVER

Sheet No.
1 OF 8

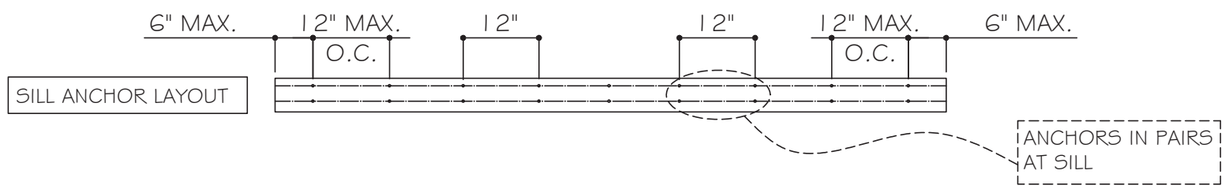


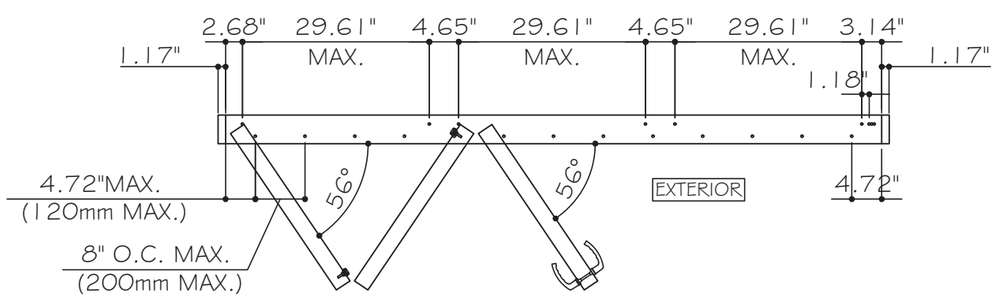
TYPICAL EXTERIOR ELEVATIONS

3 PANEL DOOR (XXX)



HARDWARE LAYOUT





Ø 5/16"(Ø8mm) DRAINAGE HOLES PLAN VIEW

DESIGN LOADS
(FOR SIZE SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC)
+55 PSF -55 PSF

FLORIDA APPROVAL:

FL47447

YIPING WANG P.E.
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C.A.N. 5888977

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LICENSE No 55983

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E1

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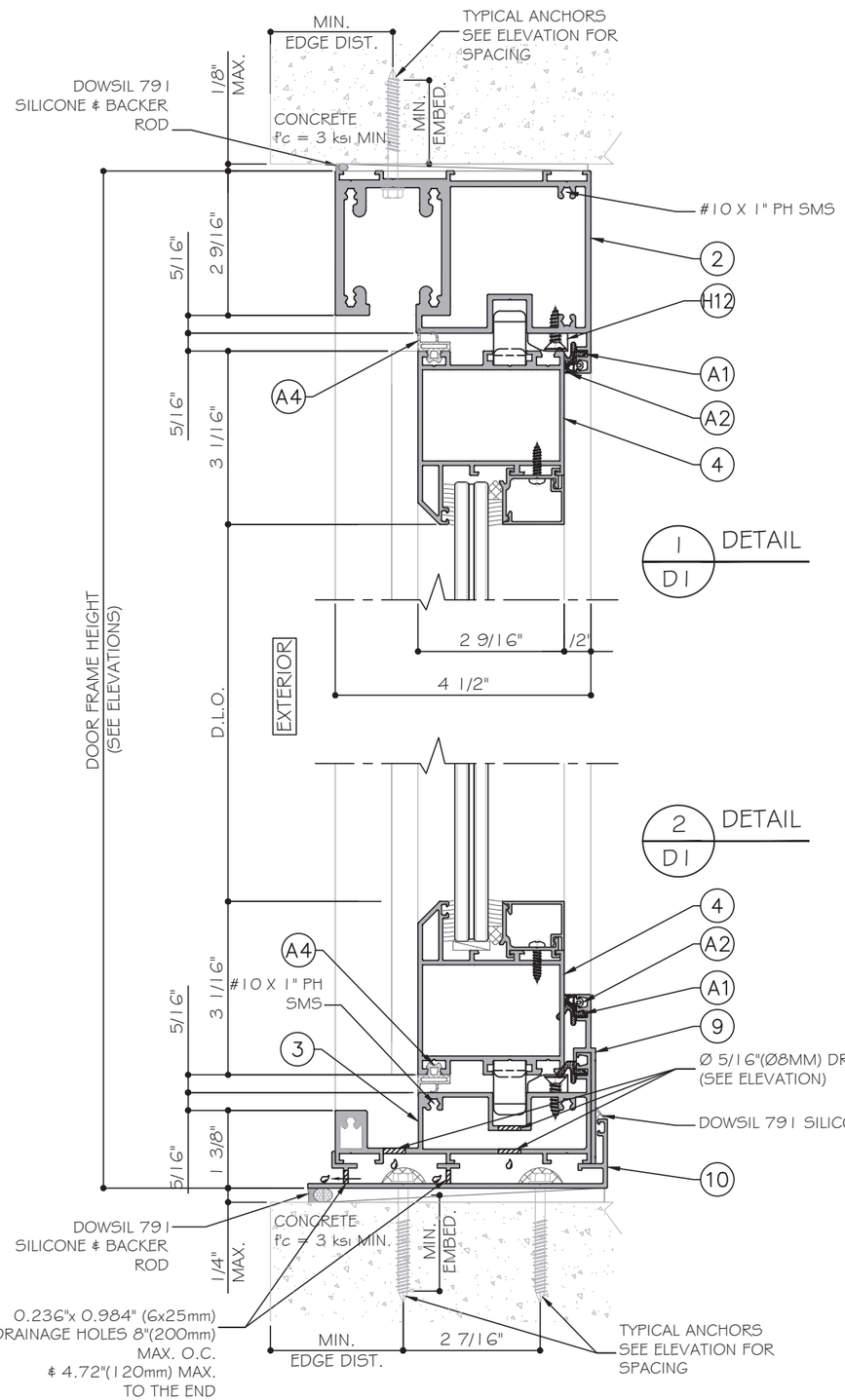
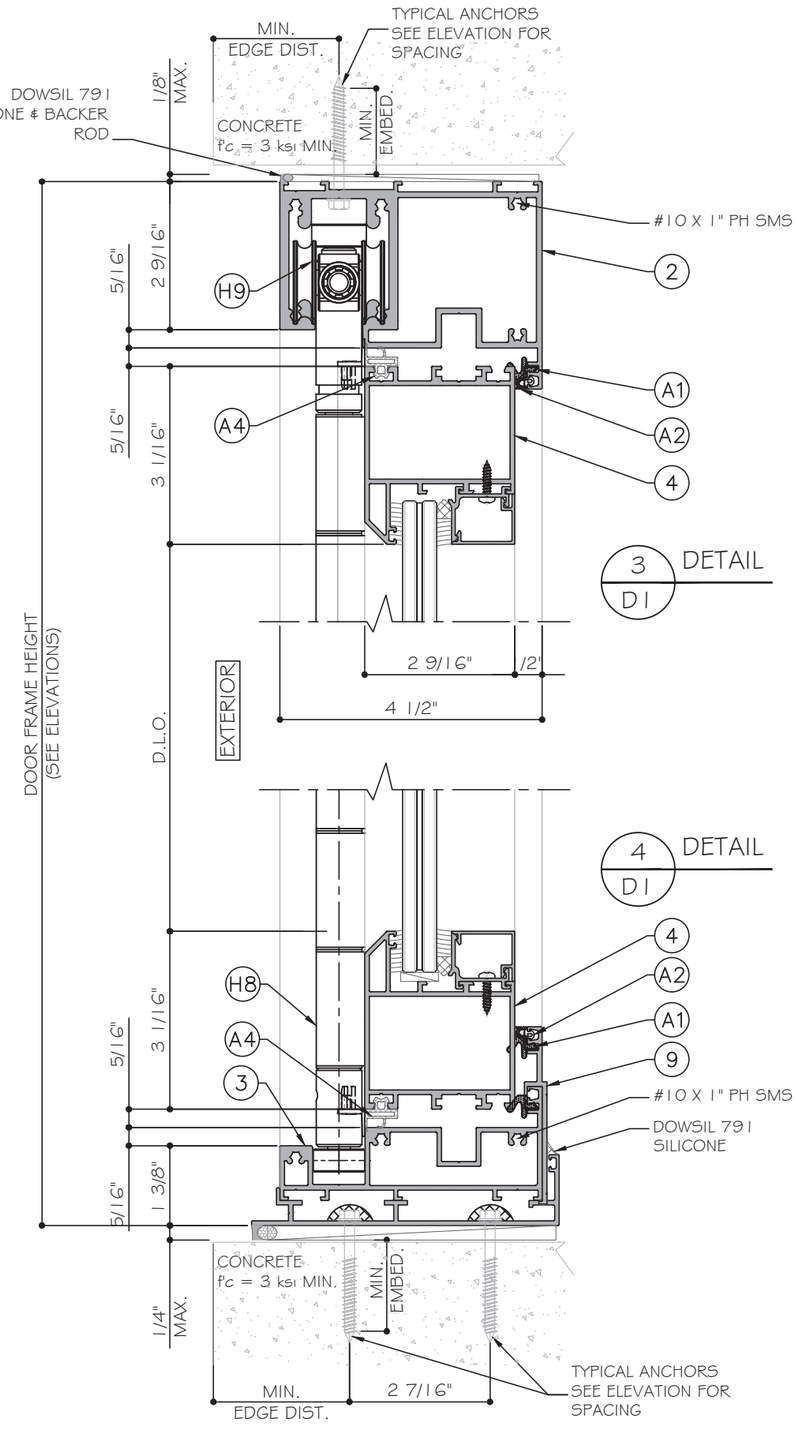
2 OF 8





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D1

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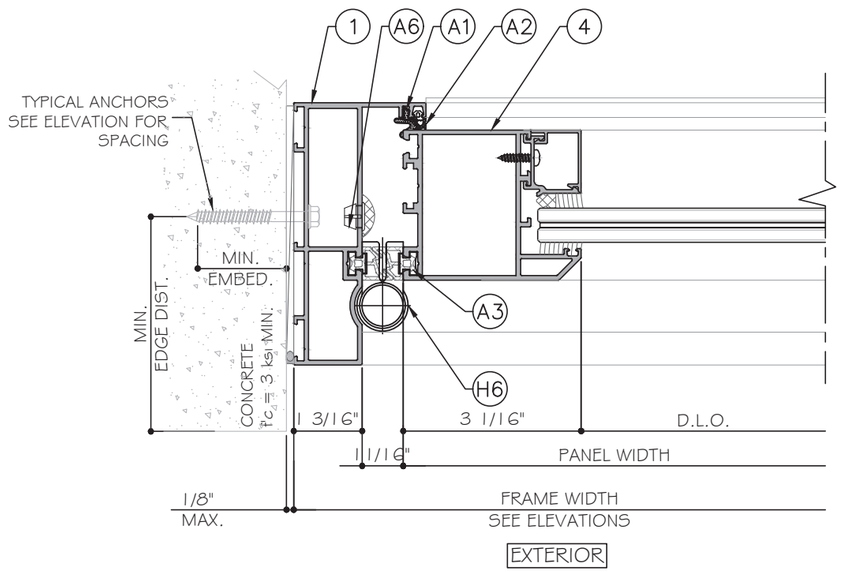
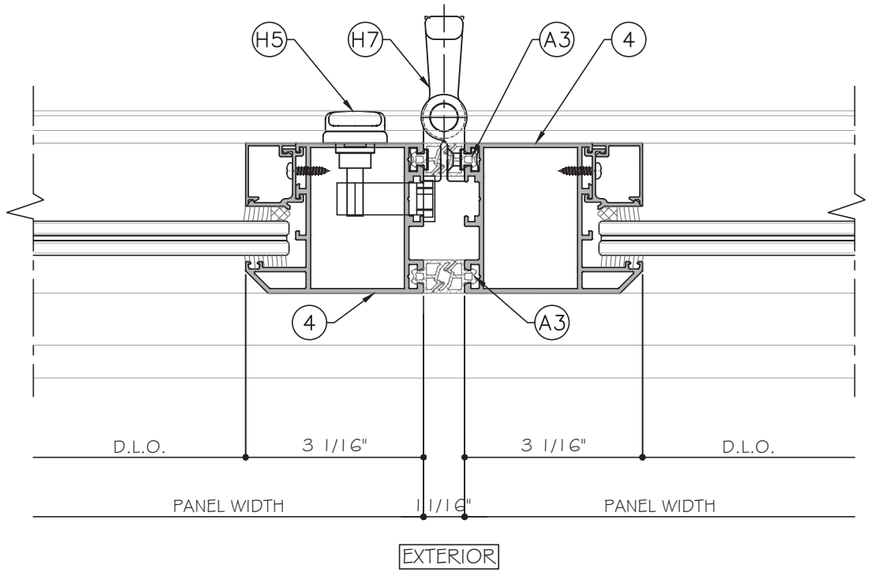
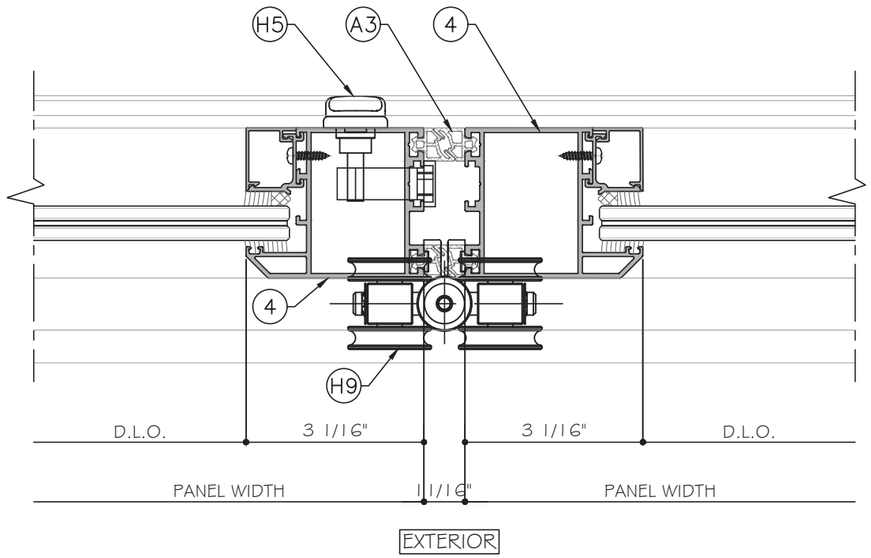


1/D2 DETAIL



2/D2 DETAIL



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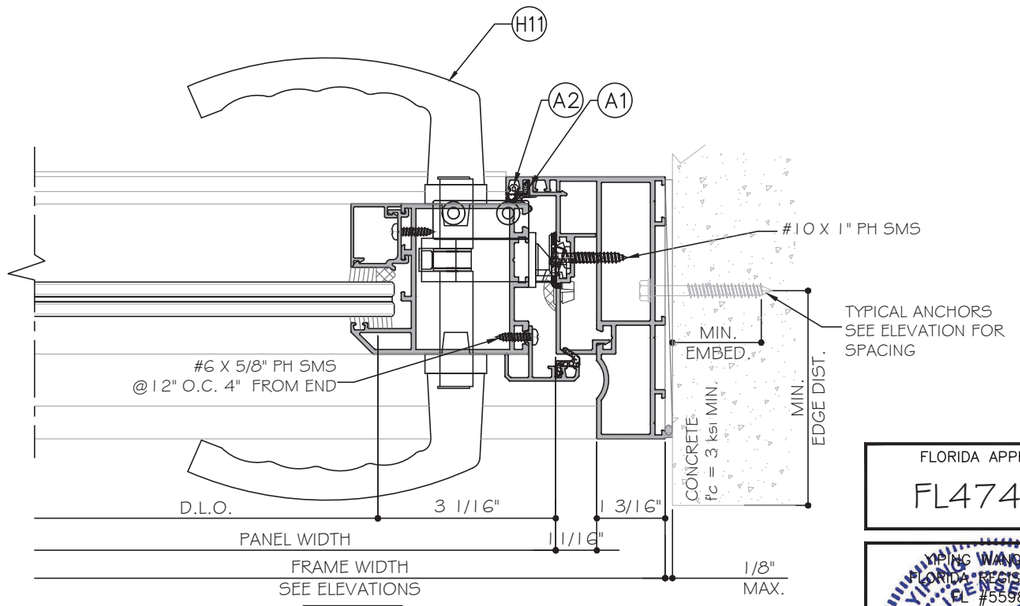

1/D2 DETAIL

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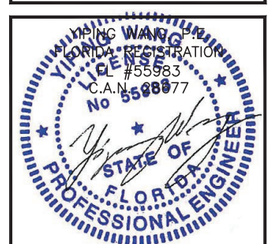

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D2

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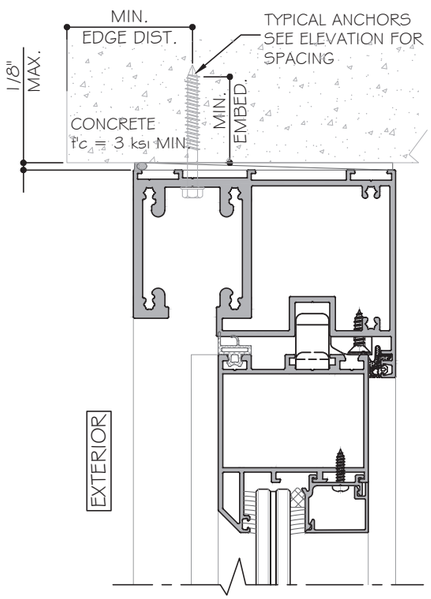

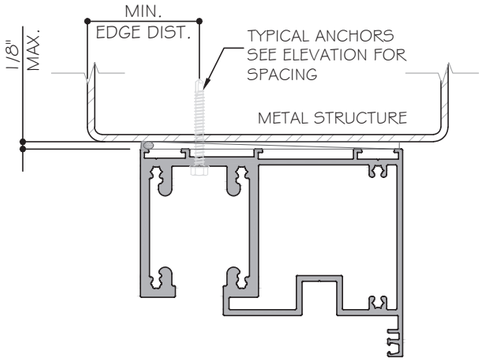

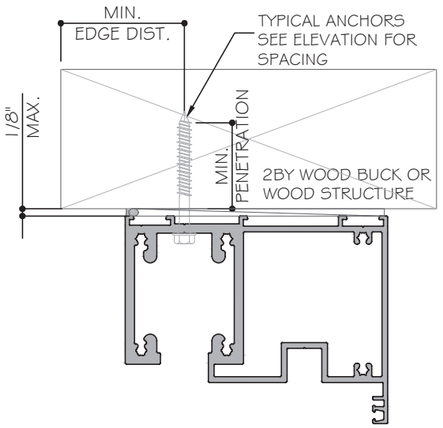

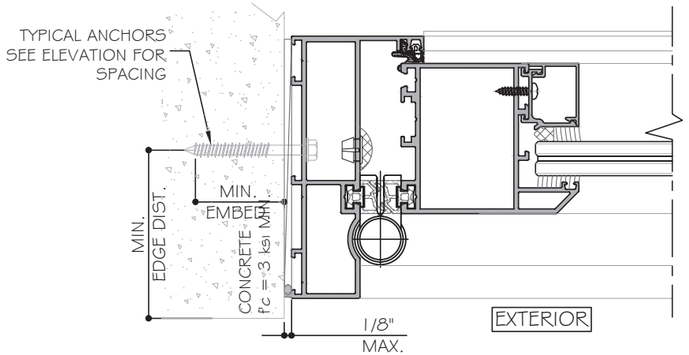

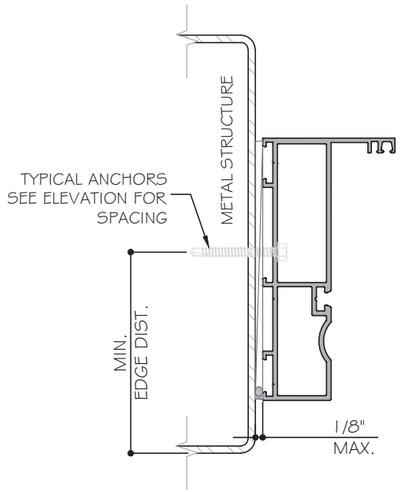

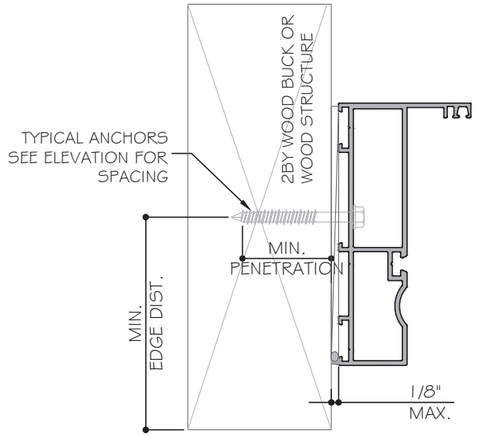

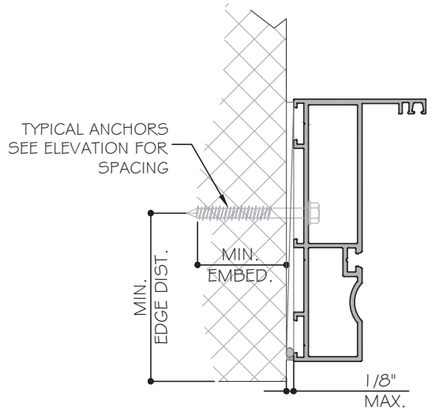

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE A: 1/4" ULTRACON+ BY 'DEWALT' (FU=164 KSI, FY=148 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURE
1-1/2" MIN. PENETRATION .

DIRECTLY INTO GROUT FILLED BLOCK (JAMB ONLY)
1-3/4" MIN. EMBEDMENT

DIRECTLY INTO CONCRETE
1-3/4" MIN. EMBEDMENT

TYPE B: 1/4" "DEWALT" DRIL-FLEX SCREWS (GRADE 5 CRS) (FU=120KSI, FY=92KSI)
INTO MIAMI-DADE COUNTY APPROVED MULLION OR INTO METAL STRUCTURES
(3)THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN).
STELL: 16 GAUGE MIN. (FY = 33 KSI MIN.)

MIN. EDGE DIST:

INTO CONCRETE OR BLOCKS: 2-1/2" MIN.
INTO WOOD STRUCTURE: 3/4" MIN.
INTO METAL STRUCTURE: 3/4" MIN

WOOD AT HEAD, SILL OR JAMBS: SG = 0.55 MIN.
CONCRETE AT HEAD/SILL OR JAMBS: f'c = 3000 PSI MIN.
FILLED BLOCK AT JAMBS: f'c = 2000 PSI MIN.

WOOD BUCKS AND METAL STRUCTURE BY OTHERS . MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

FLORIDA APPROVAL:

FL47447

YIPING WANG, P.E.
FLORIDA REGISTRATION
LIC. #55983
C.A.N. 5888

STATE OF FLORIDA
PROFESSIONAL ENGINEER

April 11th, 2025

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A1

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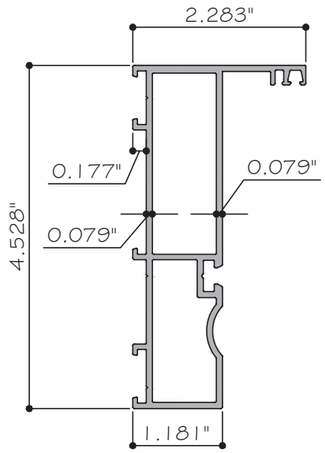
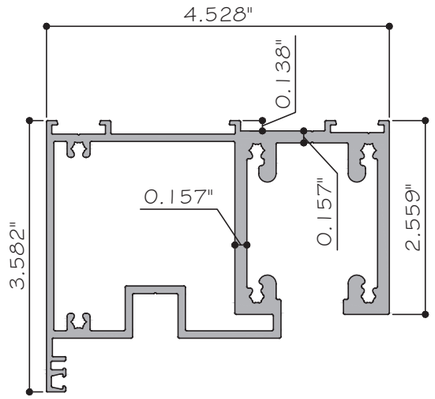
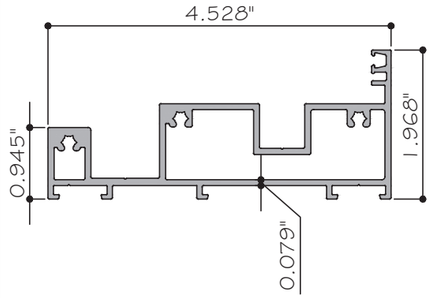


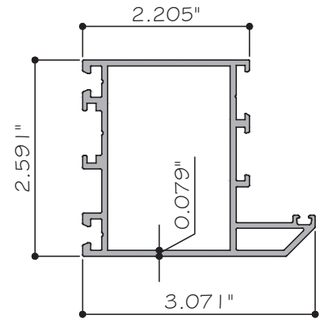
1 JAMB
SP11503 6063-T5



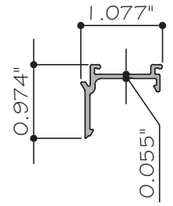
2 TOP TRACK
SP11501 6063-T5



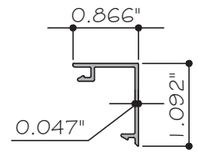
3 BOTTOM TRACK
SP11502 6063-T5



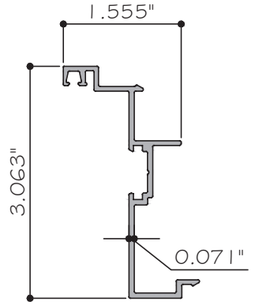
4 SASH
SP11504 6063-T5



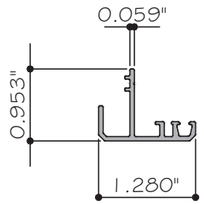
5 GLASS STOP
SP11509 6063-T5



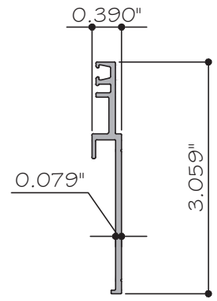
6 STOP SNAP COVER
SP11510 6063-T5



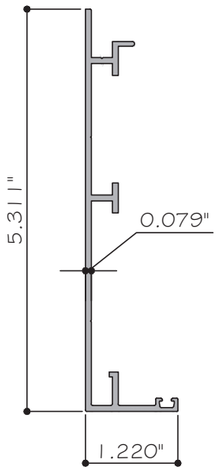
7 LOCK JAMB
SP11507 6063-T5



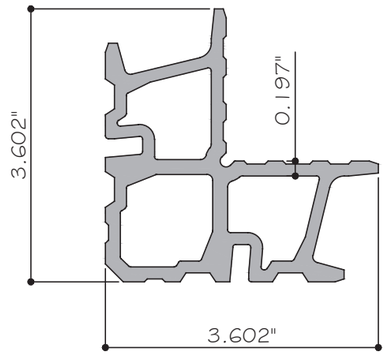
8 MEETING STILE ADAPTOR
SP11506 6063-T5



9 DOOR STOP
SP11511 6063-T5



10 SUB SILL
SP11508 6063-T5



11 CLAPING CORNER
JM405 6063-T5

FLORIDA APPROVAL:
FL47447

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PARTS

Sheet No.
6 OF 8

BILL OF MATERIALS

ITEM	PART	DESCRIPTION	MATERIAL
1	SP11503	JAMB	ALUM. 6063-T5
2	SP11501	TOP TRACK	ALUM. 6063-T5
3	SP11502	BOTTOM TRACK	ALUM. 6063-T5
4	SP11504	SASH	ALUM. 6063-T5
5	SP11509	GLASS STOP	ALUM. 6063-T5
6	SP11510	STOP SNAP COVER	ALUM. 6063-T5
7	SP11507	LOCK JAMB	ALUM. 6063-T5
8	SP11506	MEETING STILE ADAPTOR	ALUM. 6063-T5
9	SP11511	DOOR STOP	ALUM. 6063-T5
10	SP11508	SUB SILL	ALUM. 6063-T5
11	JM405	CLAPING CORNER	ALUM. 6063-T5
12	-	0.1575" (4mm)THICKNESS SETTING BLOCK AT 1/4" POINT(HARDNESS:48 HRR)	PA66
A1	KS525	FOAMING GASKET(HARDNESS:9±2A)	-
A2	SBWG-001	EPDM GASKET(HARDNESS:65±5 SHORE A)	EPDM
A3	SBW-35820	EPDM GASKET(HARDNESS:65±5 SHORE A)	EPDM
A4	SBW-35254	EPDM GASKET(HARDNESS:65±5 SHORE A)	EPDM
A5	SBW-26960	EPDM GASKET(HARDNESS:65±5 SHORE A)	EPDM
A6	-	(M10-12MM) COVER	-
H1	SBWHSS001	BOLT	-
H2	254509	LOCK DEVICE POINT	-
H3	*BQD25450	MIDDLE LOCK DEVICE POINT	-
H4	ROTO487493	LOCKCASE	-
H5	T28D	HANDLE	-
H6	FTL310-07	HINGE	-
H7	FTL310-08	HINGE	-
H8	FTL310-02	BOTTOM ROLLER GUIDE	-
H9	FTL310-01	TOP ROLLER	-
H10	640870	DOOR LOCK	-
H11	775970	DOOR HANDLE	-
H12	1630FJS-16	LIFT BLOCK	-

FLORIDA APPROVAL:

FL47447

YIMING WANG
FLORIDA REGISTRATION
LIC. #55983
C.A.N. 088877

YIMING WANG LICENSE No 55983 STATE OF FLORIDA PROFESSIONAL ENGINEER

April 11th, 2025

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GLAZING CONSULTANTS
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EMAIL: Gino@elitedoorswindows.com

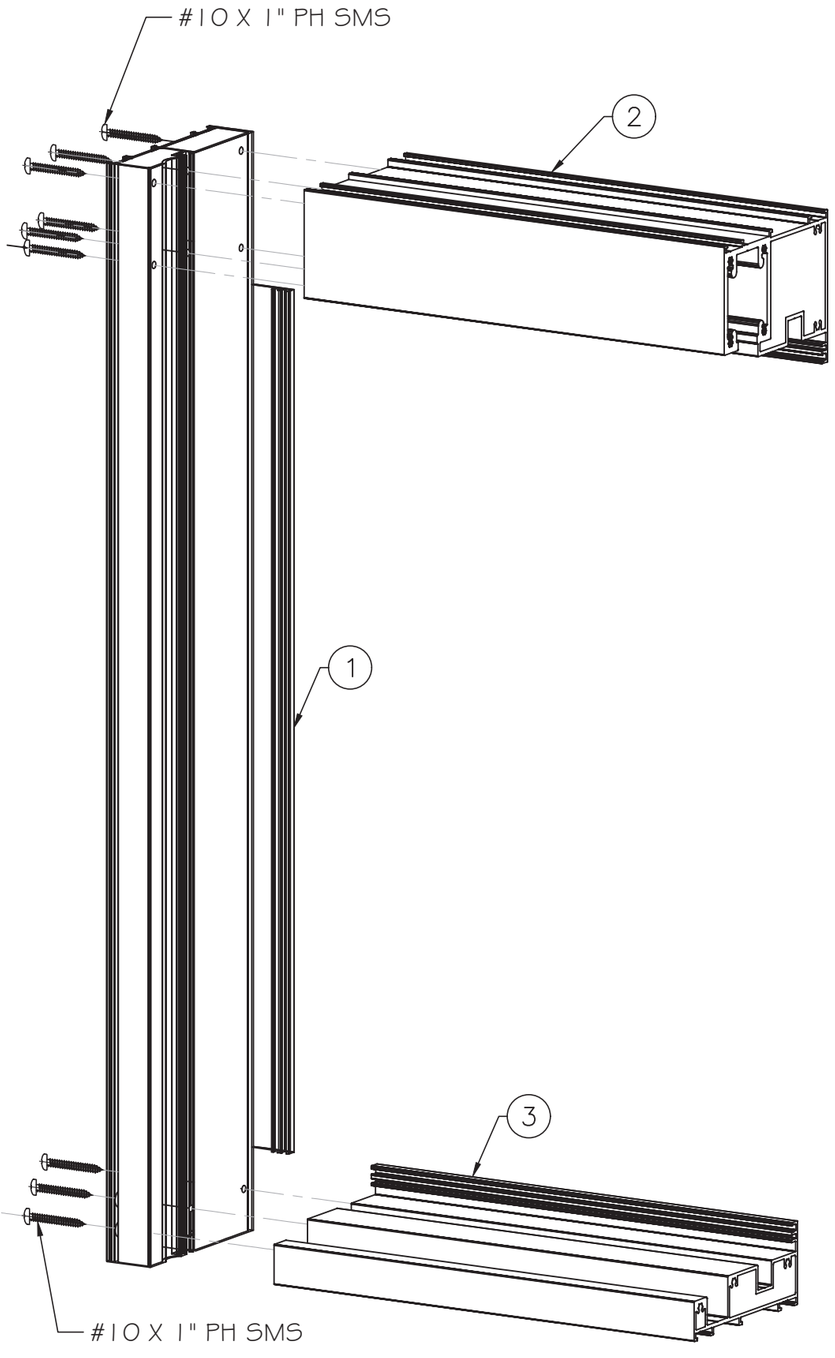
Rev. No.	Date	Drawn By	Description
R0	04.08.2025	James	NEW APPLICATION

Drawn Date: 04.08.2025
Scale: AS SHOWN

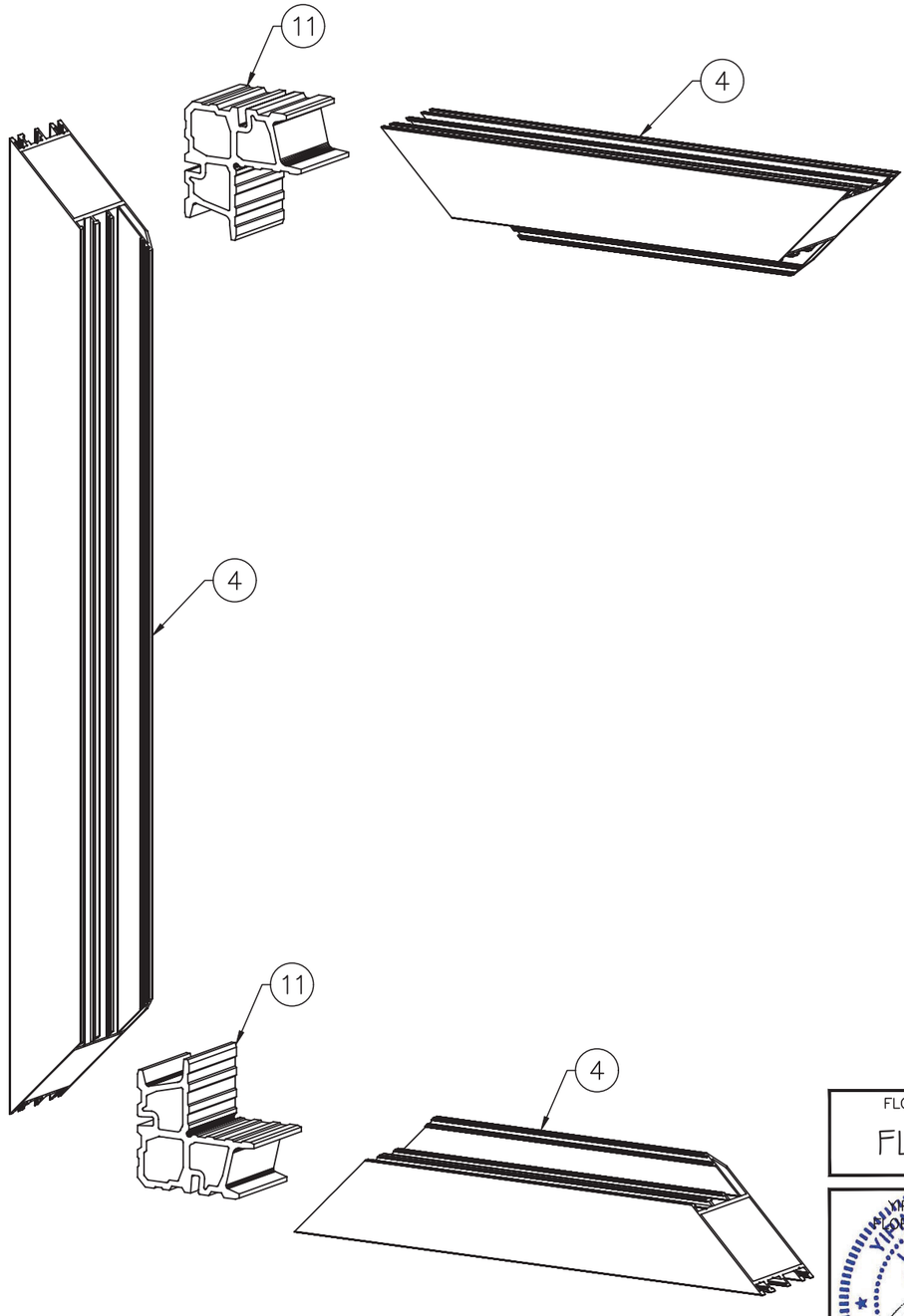
DRAWING NO.
AD25-28

M1

Sheet No.
7 OF 8



FRAME CORNER ASSEMBLY



PANEL CORNER ASSEMBLY

FLORIDA APPROVAL:

FL47447

YIMING WANG, P.E.
FLORIDA REGISTRATION
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C.A.N. 28877

STATE OF FLORIDA PROFESSIONAL ENGINEER
No 55983
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ISO

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