

UNI-K FENESTRATION
KA4016 THERMAL BREAK WINDOW WALL
LARGE MISSILE IMPACT

GENERAL NOTES:

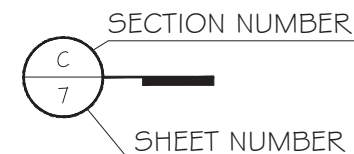
- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2023 (8TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- WINDOWS ARE RATED FOR LARGE MISSILE IMPACT. IMPACT SHUTTERS ARE NOT REQUIRED. LARGE MISSILE IMPACT IS REQUIRED FOR INSTALLATIONS UP TO 30 FT OF GRADE.
- 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 2023 (8TH EDITION) FLORIDA BUILDING CODE SECTION AS APPLICABLE.
- METAL/WOOD 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.
- SEALANT:
ALL FRAME CORNERS, JOINTS, MULLION SEAMS AND PERIMETER GLAZING BEAD TO FRAME INSTALLATION FASTENERS SEALED WITH SILICONE SEALANT.
- 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 SHEET E 1 & E2 FOR APPROVED TYPICAL ELEVATION & CONFIGURATION. SEE SHEET G 1 TO G3 FOR GLASS OPTIONS AND ITS CAPACITY.
- STEP 3: ANCHOR TYPE SEE SHEET A 1 & A2. SEE SHEET A3&A4 FOR ANCHOR CAPACITIES.
- STEP 4: SEE SHEET M 1 TO M4 FOR MULLION AND JAMB CAPACITIES. SEE SHEET M5&M6 FOR FIXED WINDOW JOINS WITH OPERABLE WINDOW AND ITS CAPACITY.
- STEP 5: THE LOWEST VALUE RESULTING FROM STEPS 2, 3 & 4 THAT EXCEED THE DESIGN WIND PRESSURES DETERMINED THRU STEP 1 SHALL APPLY TO ENTIRE SYSTEM.

ABBREVIATIONS AND SYMBOLS

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

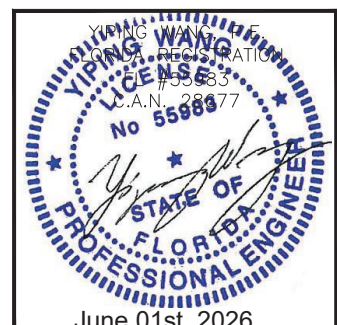


LIMITATIONS OF USE

- 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 HEREIN 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.

FLORIDA APPROVAL:

FL48153.1



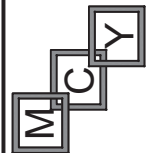
KA4016 THERMAL BREAK WINDOW WALL SYSTEM - LMI

UNI-K Fenestration

8.5 VIA DURAN TAMBO
GUAYAS, ECUADOR

<https://www.unik-windows.com>

MCY ENGINEERING, INC.
GLAZING CONSULTANTS



12781 MIRAMAR PARKWAY #301
MIRAMAR, FL 33027

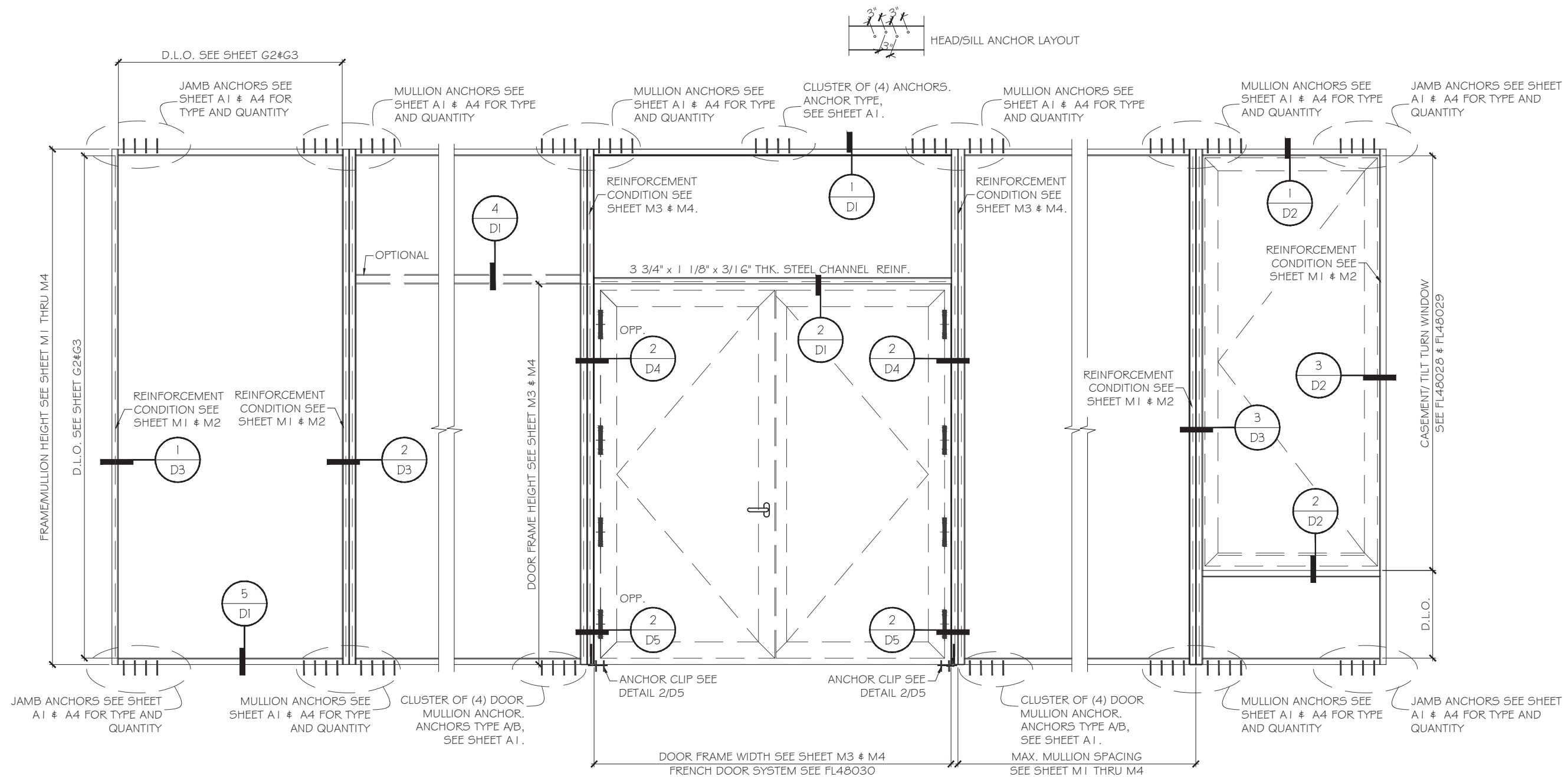
www.MCYEngineering.com mcy@mcysengineering.com

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AD26-07

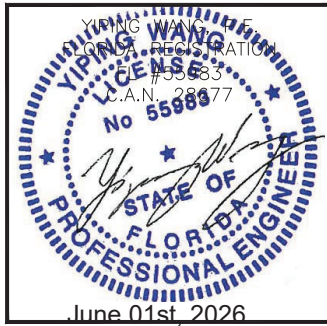
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TYPICAL EXTERIOR ELEVATION

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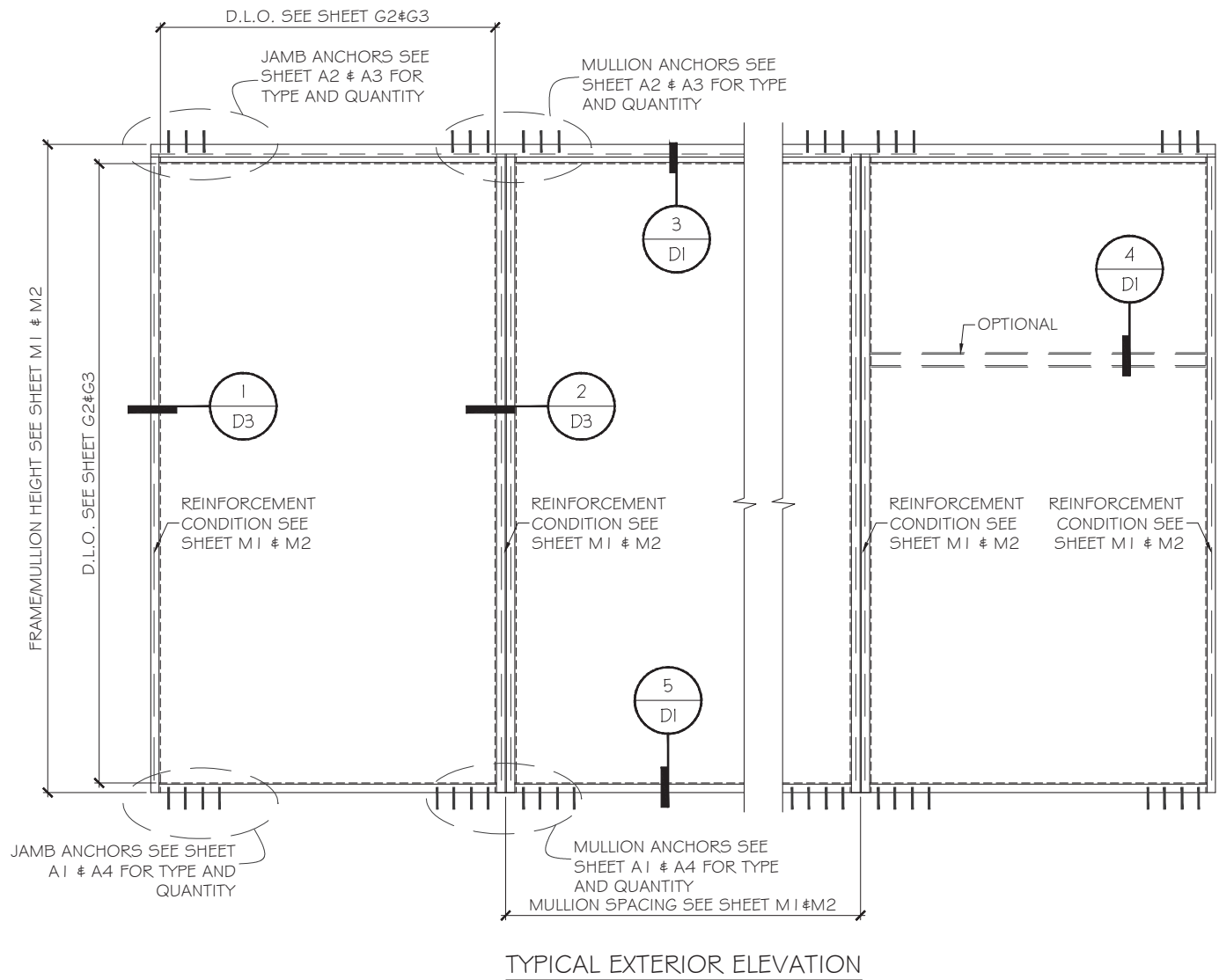
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00	05.27.2026	James	NEW APPLICATION

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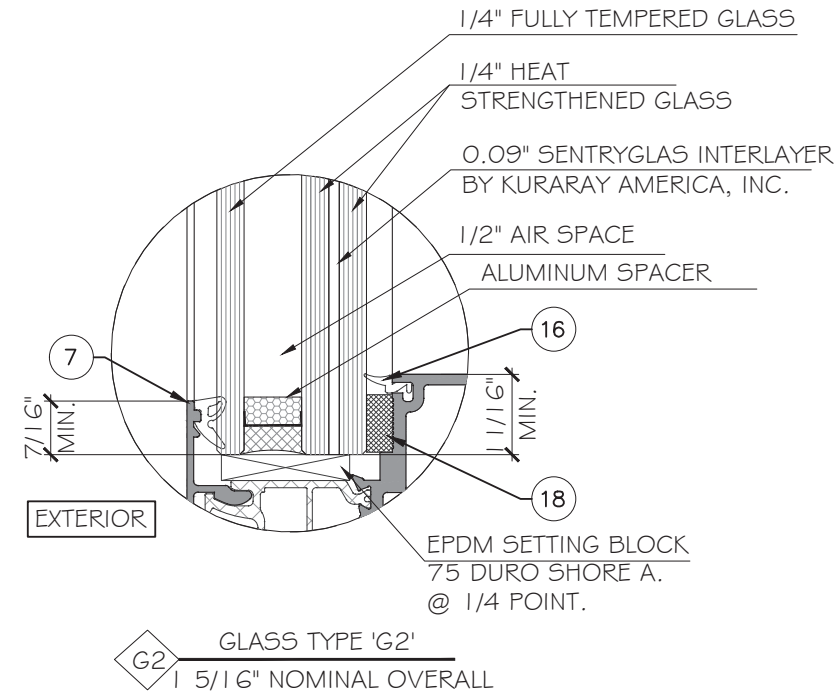
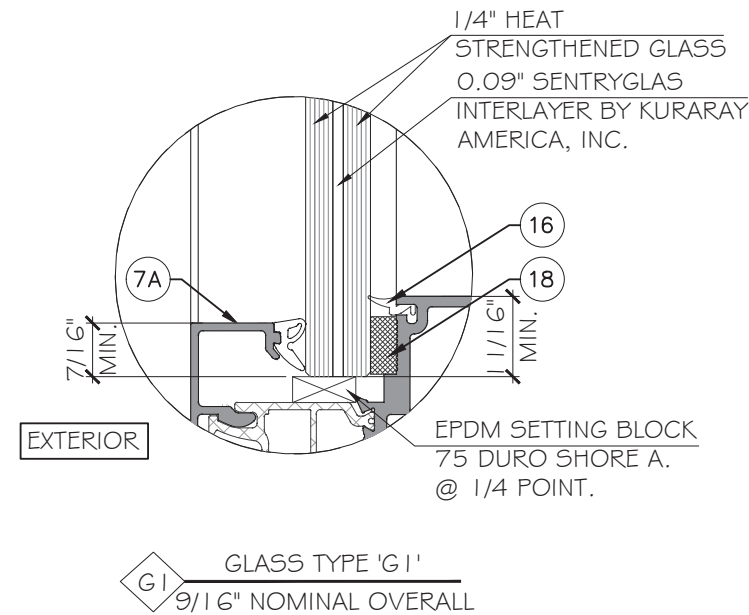
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AD26-07		3 OF 26	
Rev. No.		Description	
00		NEW APPLICATION	
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05.27.2026		James	

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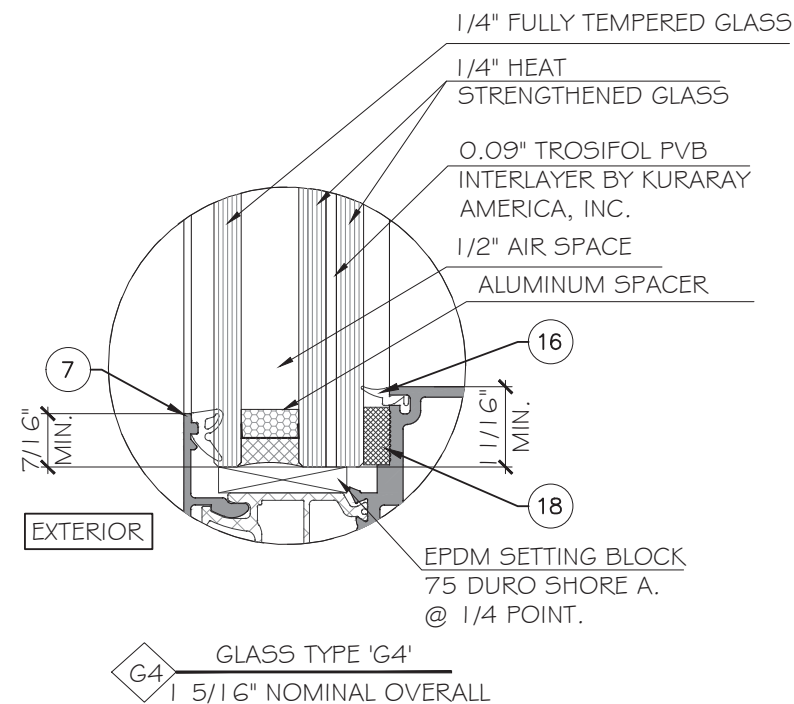
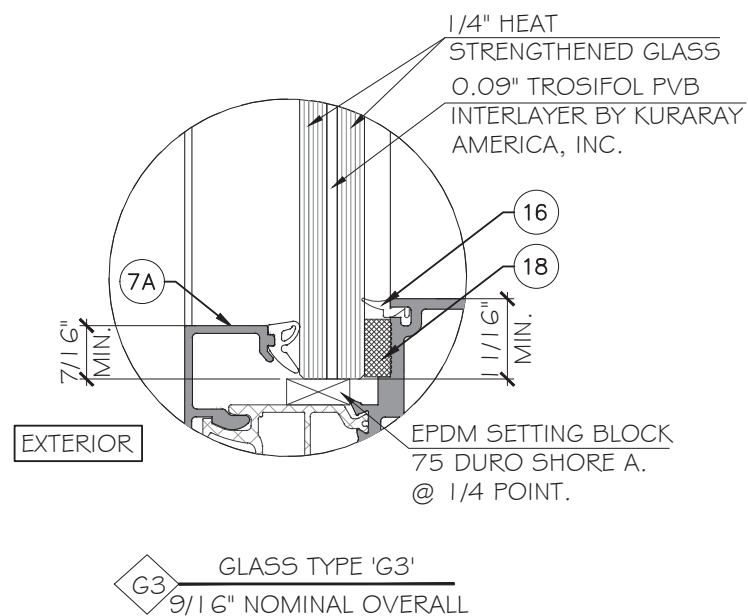
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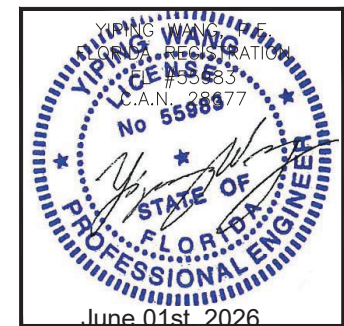
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NOTE:
GLASS COMPLIES WITH ASTM E1300-16
(3 SEC. GUSTS).



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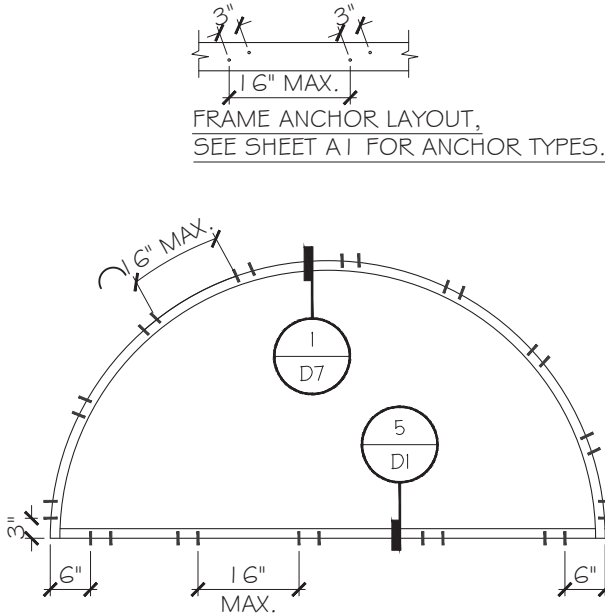
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4 OF 26

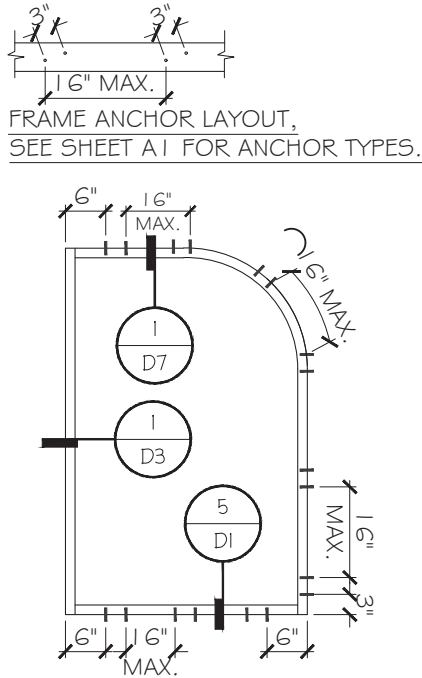
GLASS DESIGN LOAD CAPACITY - PSF		
NOMINAL DIMS.		GLASS TYPE
D.L.O. WIDTH	D.L.O. HEIGHT	G1/G2'
INCH	INCH	EXT+ / INT-
44.50	110.75	70.0
50.50	110.75	70.0
56.50	110.75	70.0
62.50	110.75	70.0
68.50	110.75	70.0
44.50	116.75	70.0
50.50	116.75	70.0
56.50	116.75	70.0
62.50	116.75	70.0
68.50	116.75	70.0
38.50	122.75	70.0
44.50	122.75	70.0
50.50	122.75	70.0
56.50	122.75	70.0
62.50	122.75	70.0
32.50	128.75	70.0
38.50	128.75	70.0
44.50	128.75	70.0
50.50	128.75	70.0
56.50	128.75	70.0
32.50	134.75	70.0
38.50	134.75	70.0
44.50	134.75	70.0
50.50	134.75	70.0
56.50	134.75	70.0

NOTE:
FOR SIZE SHOWN IN CHART OR SMALLER AS PERMITTED BY FBC.

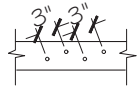
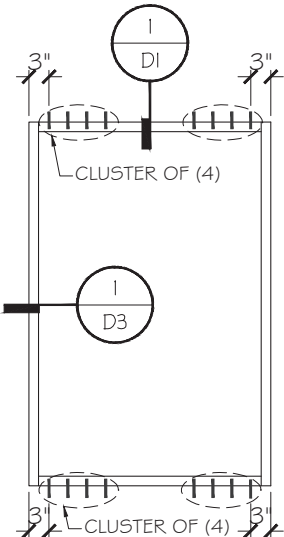
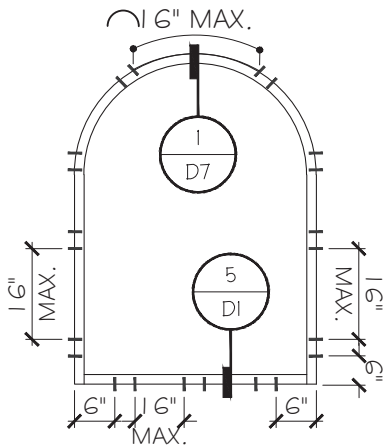
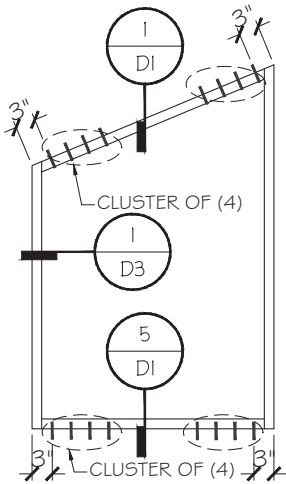
GLASS DESIGN LOAD CAPACITY - PSF		
NOMINAL DIMS.		GLASS TYPE
D.L.O. WIDTH	D.L.O. HEIGHT	G1/G2'
INCH	INCH	EXT+ / INT-
32.50	140.75	70.0
38.50	140.75	70.0
44.50	140.75	70.0
50.50	140.75	70.0
56.50	140.75	70.0
32.50	146.75	70.0
38.50	146.75	70.0
44.50	146.75	70.0
50.50	146.75	70.0
32.50	152.75	70.0
38.50	152.75	70.0
44.50	152.75	70.0
50.50	152.75	70.0
32.50	158.75	70.0
38.50	158.75	70.0
44.50	158.75	70.0
32.50	164.75	70.0
38.50	164.75	70.0
44.50	164.75	70.0



FOR PICTURE WINDOWS ABOVE, WIDTH AND LENGTH DIMENSION CAN BE ORIENTED VERTICALLY OR HORIZONTALLY.



PANEL SHAPE OPTIONS.



HEAD/SILL
ANCHOR LAYOUT.
SEE SHEET A1 FOR
ANCHOR TYPES.

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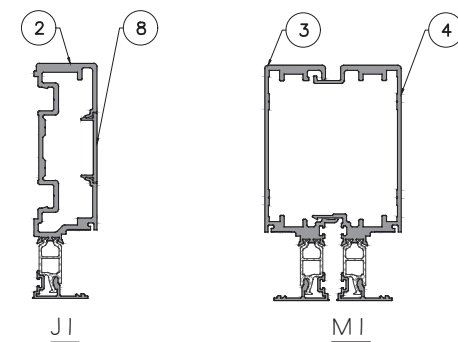
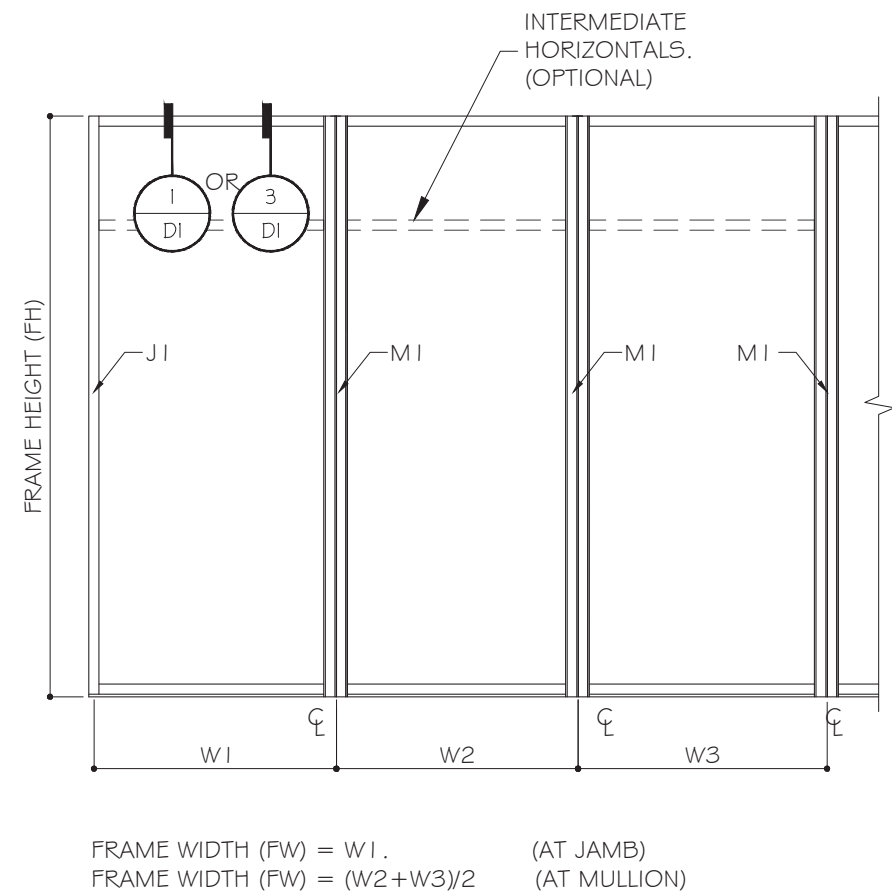
G2

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MULLION DESIGN LOAD CAPACITY - PSF
JAMB AND MULLION WITHOUT STEEL REINFORCEMENT.
(WITH/WITHOUT INTERMEDIATE HORIZONTALS)

NOMINAL DIMS.		MULLION TYPE
FW	FH	'M1/J1'
INCH	INCH	EXT + / INT-
48.0	90.0	70.0
54.0	90.0	70.0
60.0	90.0	70.0
66.0	90.0	70.0
72.0	90.0	70.0
42.0	96.0	70.0
48.0	96.0	70.0
54.0	96.0	70.0
60.0	96.0	70.0
66.0	96.0	70.0
36.0	102.0	70.0
42.0	102.0	70.0
48.0	102.0	70.0
54.0	102.0	70.0
60.0	102.0	70.0
40.0	108.0	70.0
42.0	108.0	70.0
48.0	108.0	70.0
54.0	108.0	70.0
60.0	108.0	70.0
30.0	114.0	70.0
36.0	114.0	70.0
42.0	114.0	70.0
48.0	114.0	70.0
54.0	114.0	65.0
30.0	120.0	70.0
36.0	120.0	70.0
42.0	120.0	70.0
48.0	120.0	63.0
54.0	120.0	56.0

NOTE:
FOR SIZE SHOWN IN CHART OR SMALLER AS PERMITTED BY FBC.



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YIPING WANG
 CIVIL ENGINEER
 LICENSE NO. 55989
 C.A.N. 28877
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 June 01st, 2026

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

12761 MIRAMAR PARKWAY #301
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UNI-K Fenestration
KM 8.5 VIA DURAN TAMBO
GUAYAS, ECUADOR
<https://www.unik-windows.com>

[illegible]

TYPICAL ANCHOR TYPES:

ANCHOR TYPE 'AA' - 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURE
WITH 1 1/2" MIN. PENETRATION. (HEAD/JAMB/SILL)
OR THRU 1 BY/2BY WOOD BUCKS INTO CONCRETE
WITH 1 3/4" MIN. EMBEDMENT. (HEAD/JAMB/SILL)
OR THRU 1 BY/2BY WOOD BUCKS INTO GROUT FILLED BLOCK
WITH 1 3/4" MIN. EMBEDMENT. (JAMB ONLY)
OR DIRECTLY INTO GROUT FILLED BLOCK
WITH 1 3/4" MIN. EMBEDMENT. (JAMB ONLY)

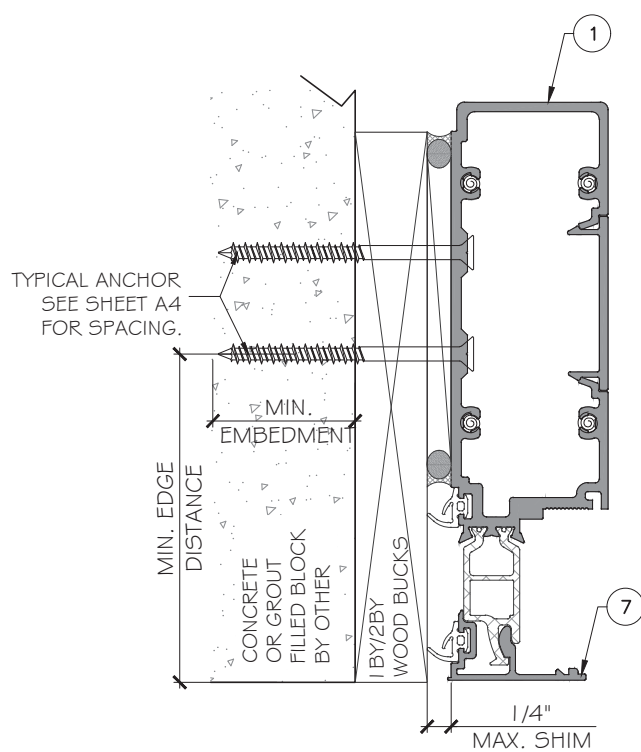
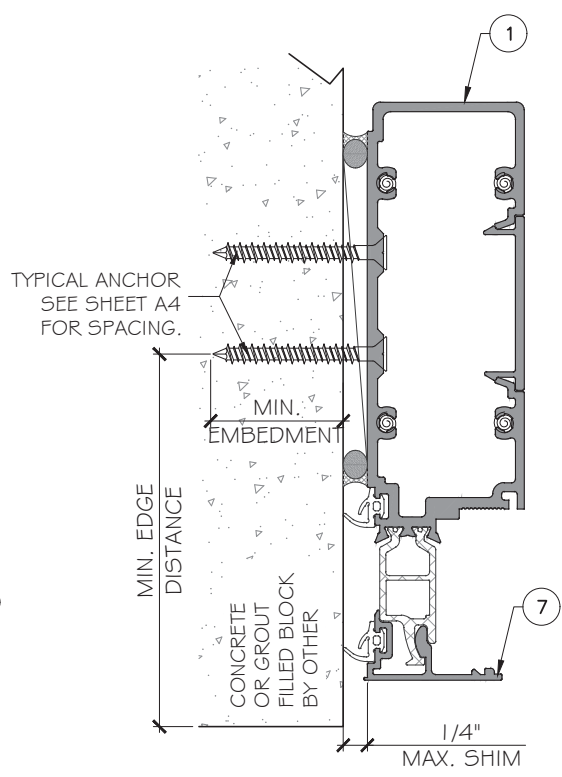
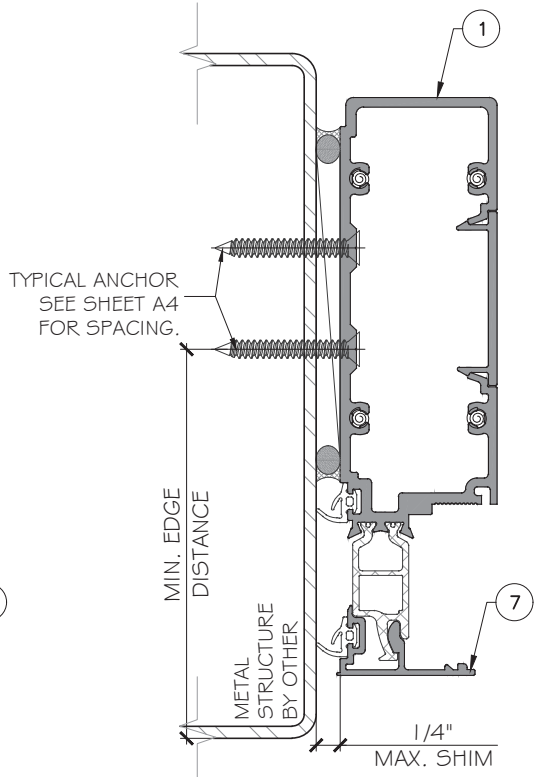
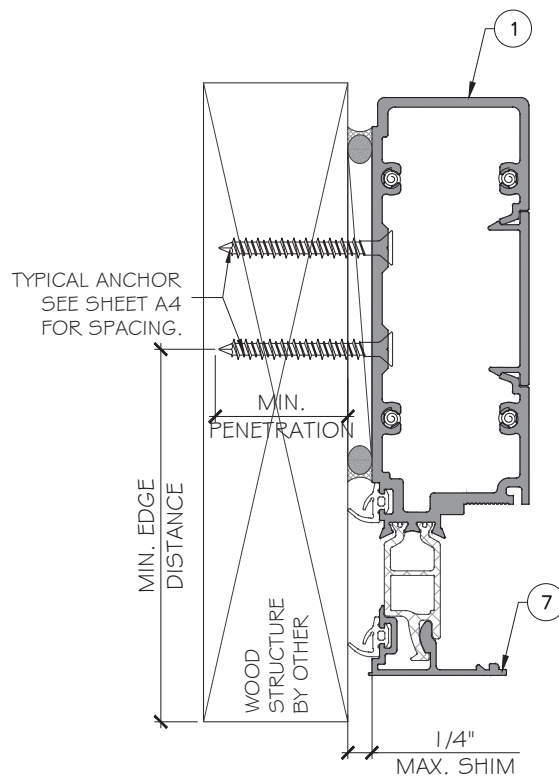
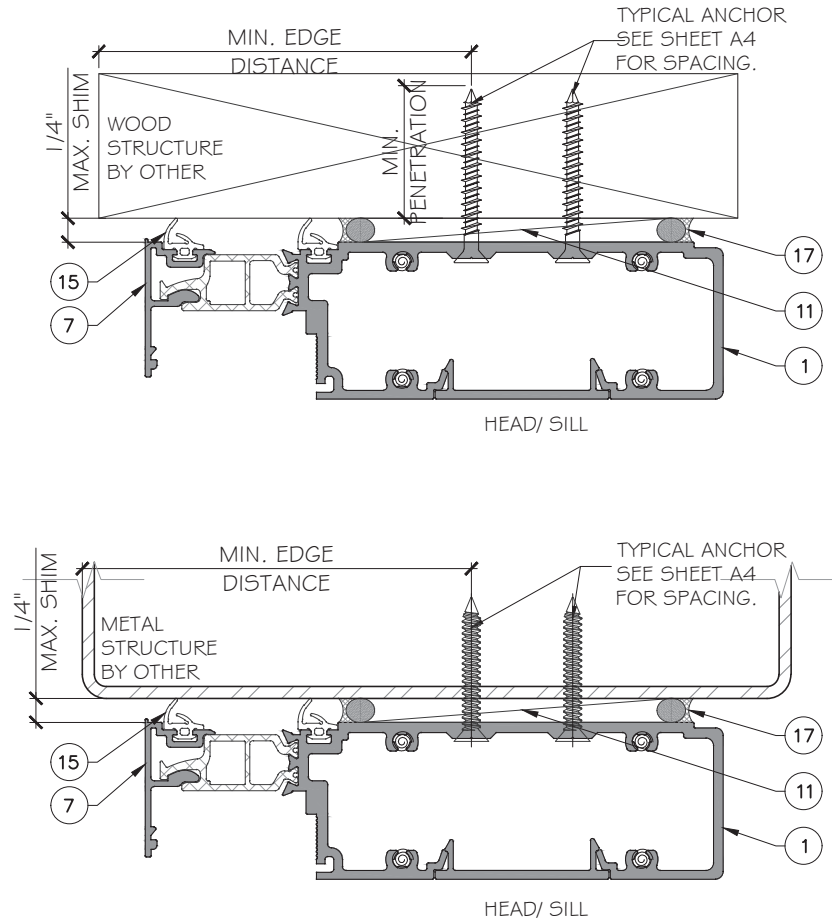
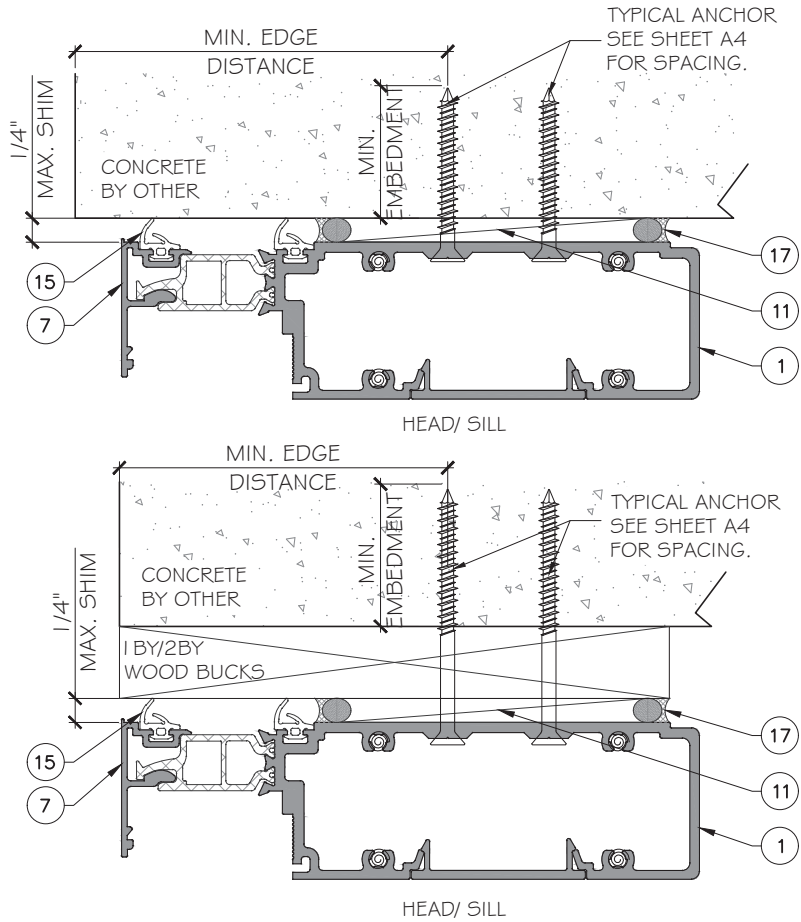
ANCHOR TYPE 'A' - 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONCRETE W/1 3/4" MIN. EMBEDMENT. (HEAD/JAMB/SILL)

ANCHOR TYPE 'B' - 1/4" DIA. SELF-DRILLING SCREWS, GRADE 5 (Fu=120KSI, Fy=92KSI)
INTO F.B.C. APPROVED ALUMINUM MULLIONS OR METAL STRUCTURES. (HEAD/JAMB/SILL)
(3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE.
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE
INTO CONCRETE OR GROUT FILLED BLOCK= 2 1/2" MIN.
INTO WOOD = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

SUBSTRATE
WOOD AT HEAD/JAMB/SILL: SG=0.55MIN.
CONCRETE AT JAMB/HEAD/SILL: f'c=3000 PSI MIN.
C-90 GROUT FILLED BLOCK AT JAMB: fm=2 KSI.
ALUMINUM AT JAMB/HEAD/SILL: 1/8" THK. MIN. (6063-T5, MIN)
STEEL AT JAMB/HEAD/SILL: 1/8" THK. MIN. (Fy=36KSI MIN)

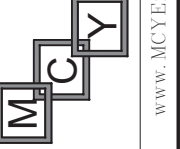
NOTE:
METAL STRUCTURES OR WOOD STRUCTURES BY
OTHERS TO BE DESIGNED AND ANCHORED PROPERLY
TO SUPPORT THE LOADS IMPOSED BY THIS GLAZING
SYSTEM AND TO TRANSFER SUCH LOADS TO THE
BUILDING MAIN STRUCTURE.



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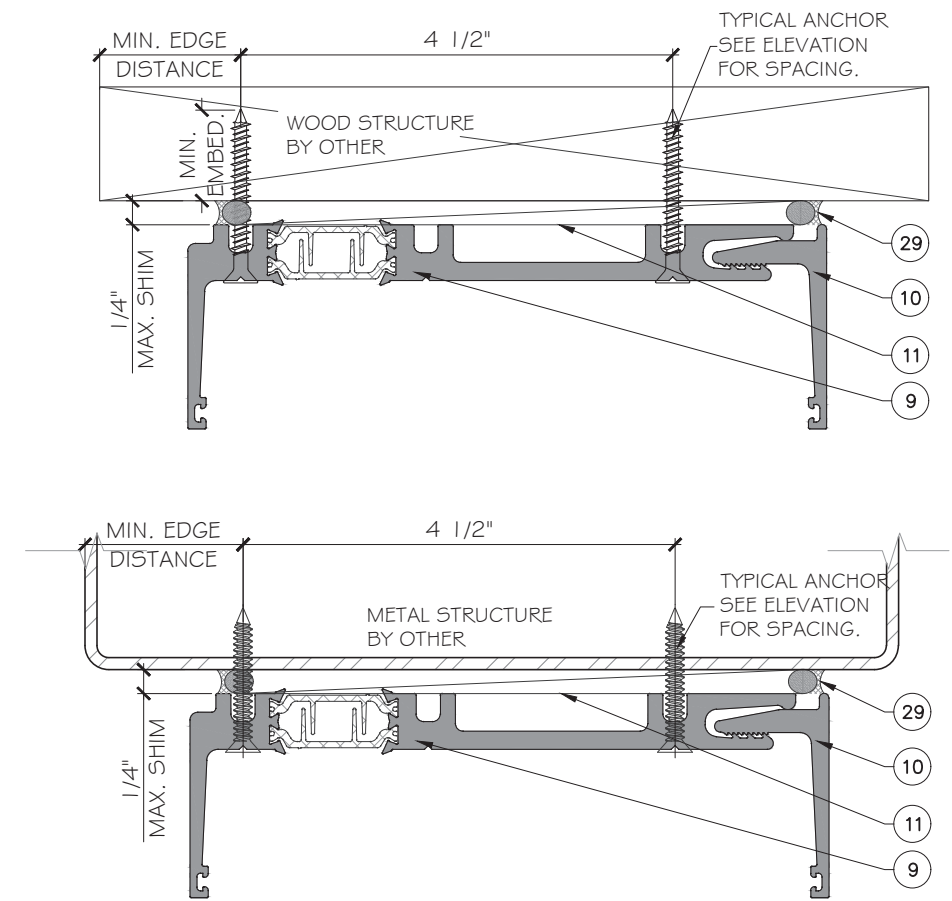
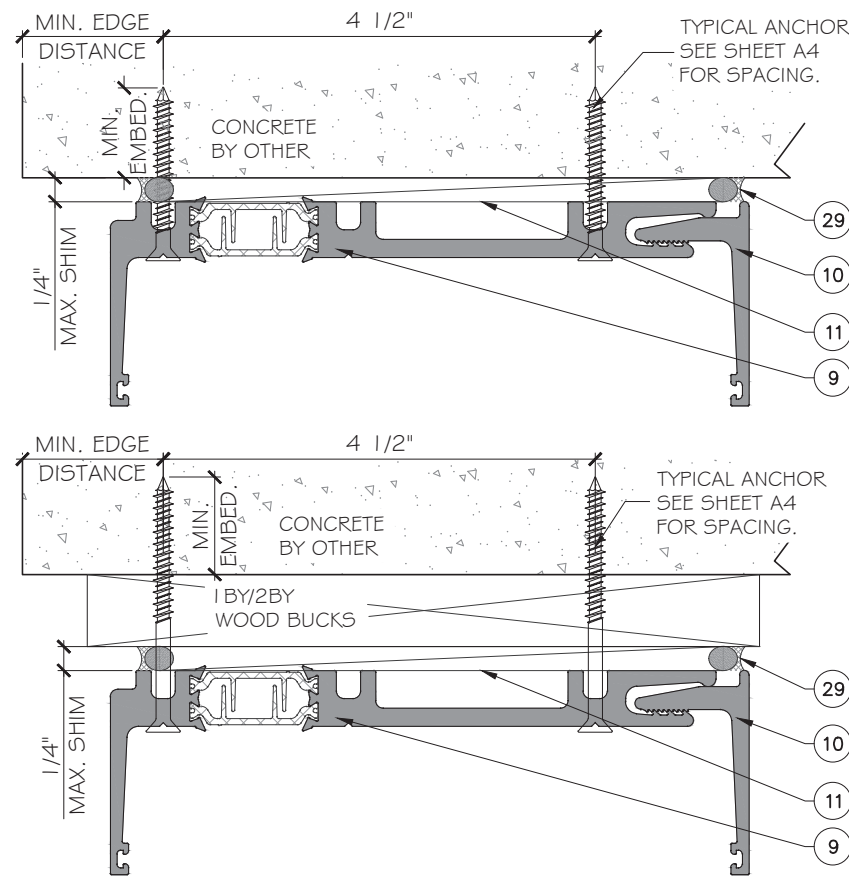
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ANCHOR TYPE 'AA' - 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu= 164 KSI, Fy= 148 KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURE
 WITH 1 1/2" MIN. PENETRATION. (HEAD/JAMB/SILL)
 OR THRU 1BY2BY WOOD BUCKS INTO CONCRETE
 WITH 1 3/4" MIN. EMBEDMENT. (HEAD/JAMB/SILL)
 OR THRU 1BY2BY WOOD BUCKS INTO GROUT FILLED BLOCK
 WITH 1 3/4" MIN. EMBEDMENT. (JAMB ONLY)
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ANCHOR TYPE 'B' - 1/4" DIA. SELF-DRILLING SCREWS, GRADE 5 (Fu=120KSI, Fy=92KSI)
 INTO F.B.C. APPROVED ALUMINUM MULLIONS OR METAL STRUCTURES. (HEAD/JAMB/SILL)
 (3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE.
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

SUBSTRATE
WOOD AT HEAD/JAMB/SILL: SG=0.55 MIN.
CONCRETE AT JAMB/HEAD/SILL: f_c =3000 PSI MIN.
C-90 GROUT FILLED BLOCK AT JAMB: f_m =2 KSI.
ALUMINUM AT JAMB/HEAD/SILL: 1/8" THK. MIN. (60G3-T5, MIN)
STEEL AT JAMB/HEAD/SILL: 1/8" THK. MIN. (F_y =36KSI MIN)

NOTE:
METAL STRUCTURES OR WOOD STRUCTURES BY OTHERS TO BE DESIGNED AND ANCHORED PROPERLY TO SUPPORT THE LOADS IMPOSED BY THIS GLAZING SYSTEM AND TO TRANSFER SUCH LOADS TO THE BUILDING MAIN STRUCTURE.



FLORIDA APPROVAL: _____

FL48153.1

YONG WANG, F.
ONLINE REGISTRATION
155683
C.A.N. 28477
No 55989

STATE OF
FLORIDA
PROFESSIONAL ENGINEER

June 01st 2026

 MCY ENGINEERING, INC. GLAZING CONSULTANTS 12781 MIRAMAR PARKWAY #301 MIRAMAR, FL 33027 P: 305.588.5224 www.MCYEngineering.com mcy@mcyengineering.com	KA4016 THERMAL BREAK WINDOW WALL SYSTEM - LMI			
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	https://www.unik-windows.com			
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		Scale AS SHOWN		
DRAWING NO. AD26-07				
A2				
Sheet No. 14 OF 26				

EXTERIOR

FRAME HEIGHT

1/4" MAX. SHIM

1 5/8"

D.L.O.

1 5/8"

DOOR HEIGHT

INSULATED LAMINATED GLASS AS SHOWN, SEE SHEET G1 FOR LAMINATED GLASS OPTION.

MIN. EDGE DISTANCE

MIN. EMBEDMENT

TYPICAL ANCHOR SEE SHEET A4 FOR SPACING.

1
DI
DETAIL

2
DI
DETAIL

EXTERIOR

EXTERIOR

EXTERIOR

FRAME HEIGHT

1/4" MAX. SHIM

1 5/8"

D.L.O.

2 7/16"

D.L.O.

MIN. EDGE DISTANCE

4 1/2"

CONCRETE BY OTHER

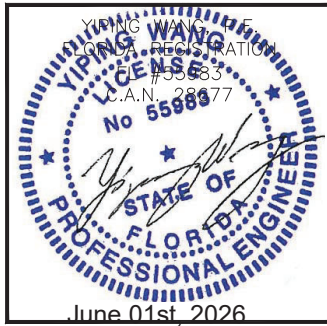
TYPICAL ANCHOR SEE SHEET A3 FOR SPACING.

3
DI
DETAIL

4
DI
DETAIL

5
DI
DETAIL

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GUAYAS, ECUADOR

https://www.unik-windows.com

Rev. No.	Date	Drawn By	Description
00	05.27.2026	James	NEW APPLICATION

Drawn Date
05.27.2026

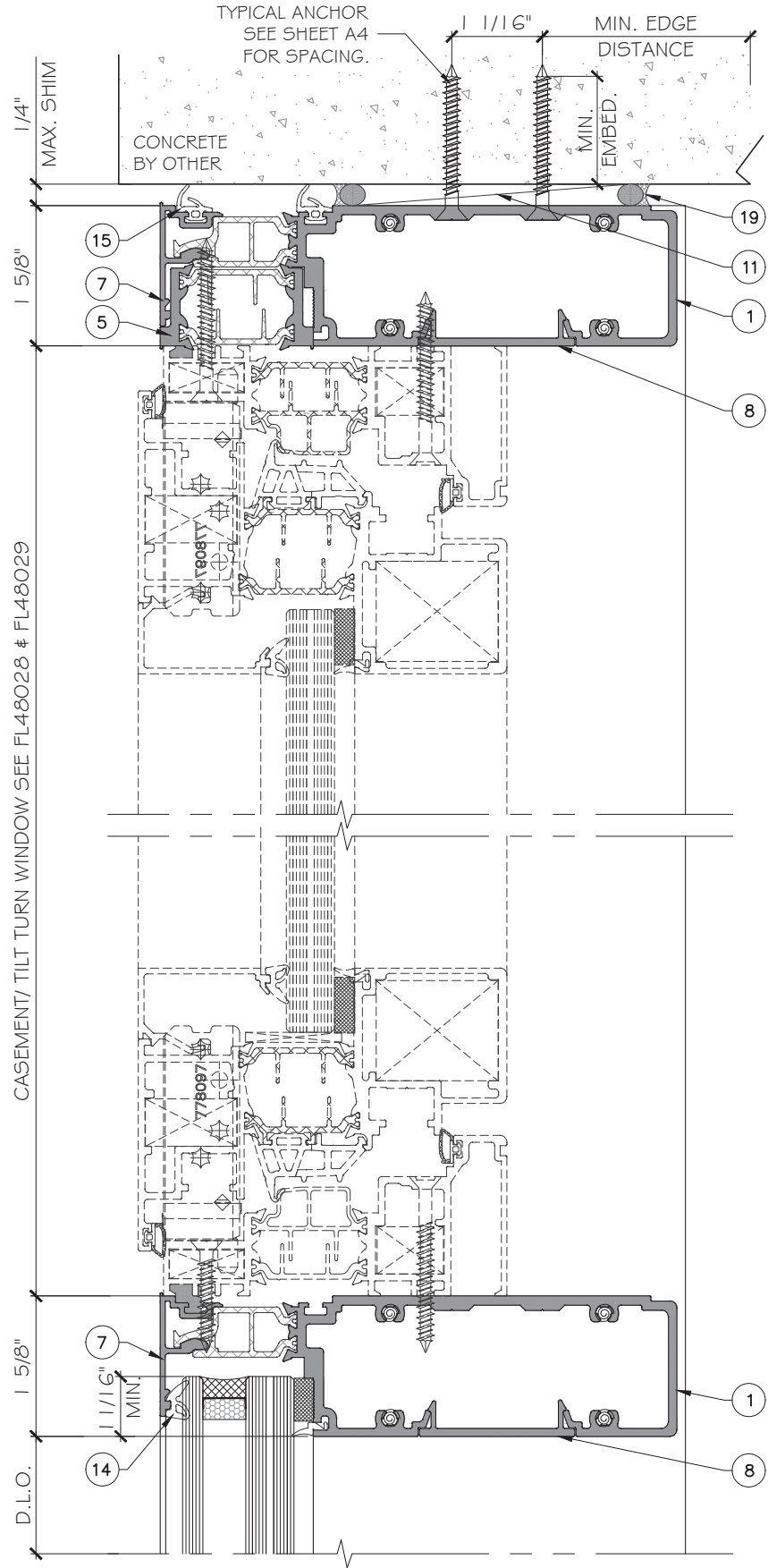
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AD26-07

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Sheet No.
17 OF 26

EXTERIOR

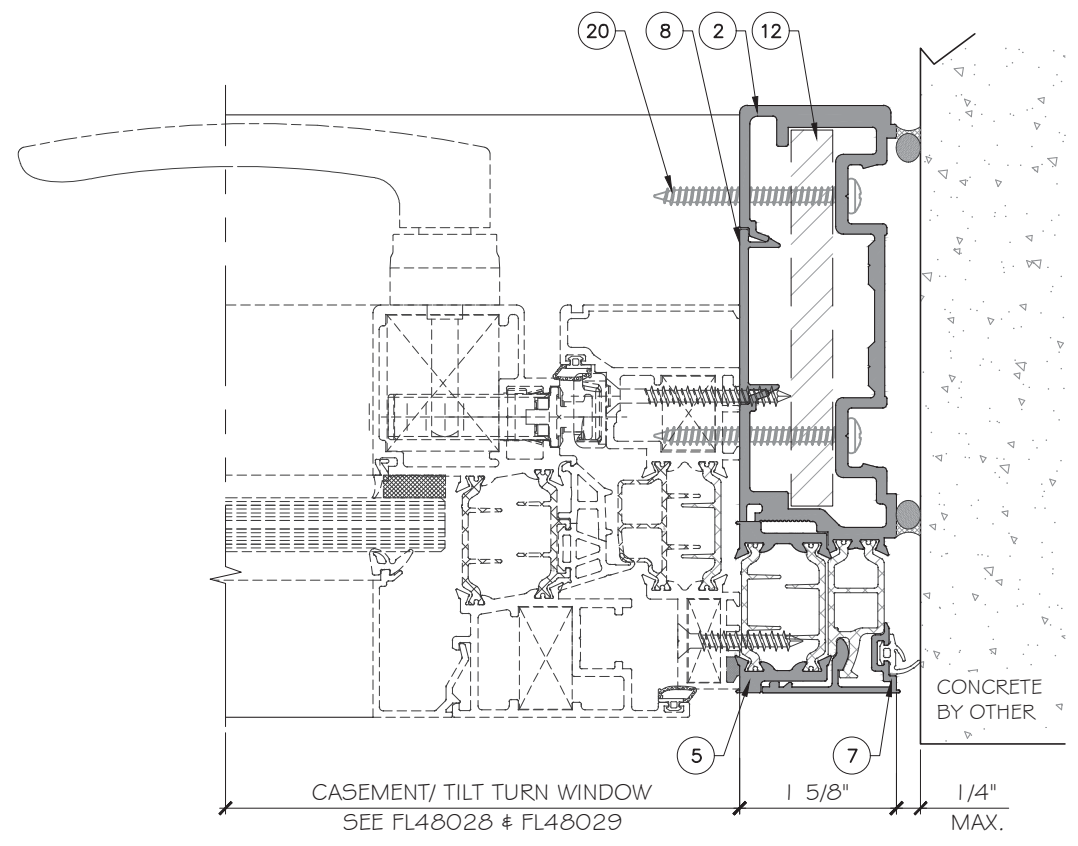


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EXTERIOR

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DETAIL



FLORIDA APPROVAL:
FL48153.1

MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PARKWAY #301
MIRAMAR, FL 33027
P: 305.588.5224
www.MCYEngineering.com mcy@mcyengineering.com

KA4016 THERMAL BREAK WINDOW WALL SYSTEM - LMI

UNI-K Fenestration
KM 8.5 VIA DURAN TAMBO
GUAYAS, ECUADOR
<https://www.unik-windows.com>

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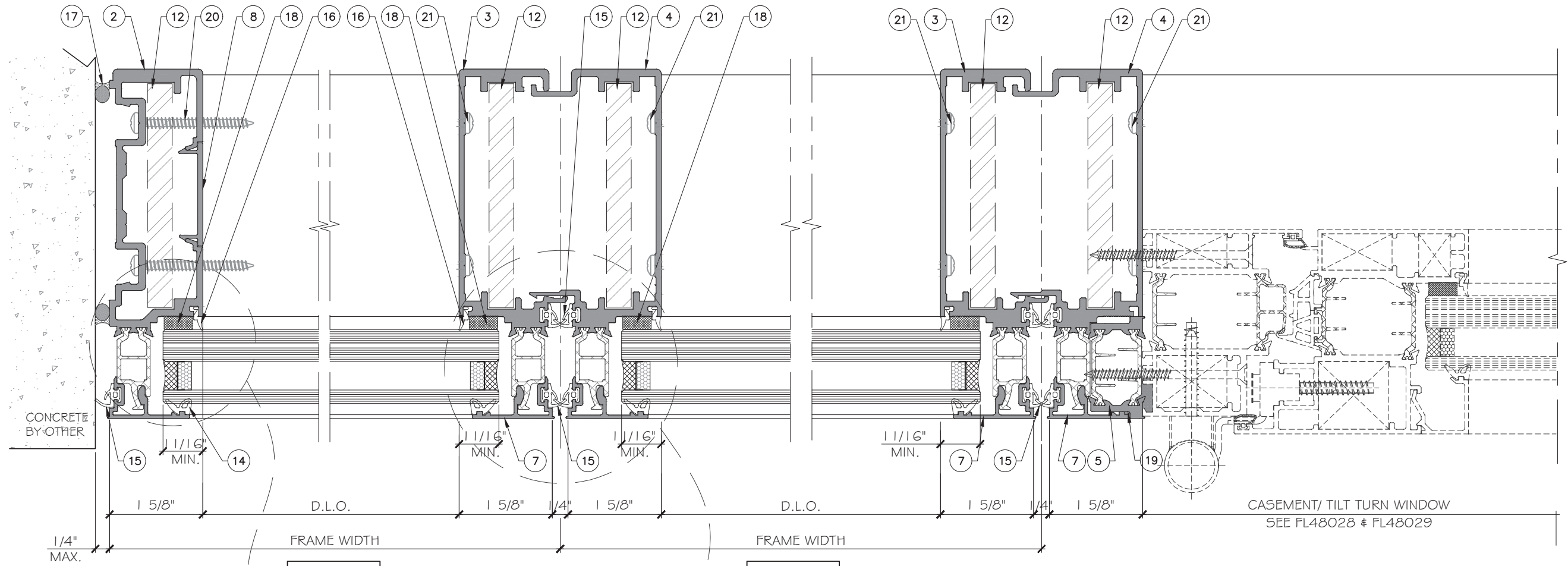
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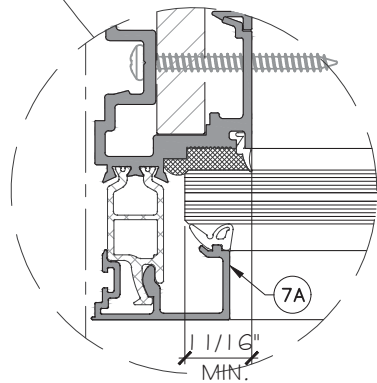
SEE CHART FOR USAGE OF
REINFORCEMENT ITEM 12.

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REINFORCEMENT ITEM 12.

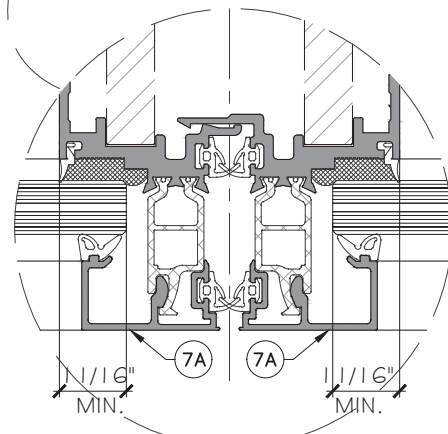


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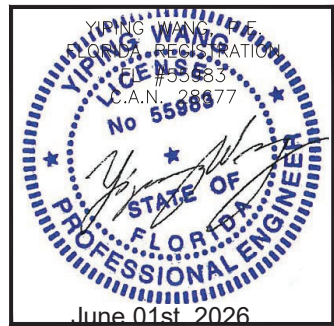
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LAMINATED GLASS OPTION

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KA4016 THERMAL BREAK WINDOW WALL SYSTEM - LMI

UNI-K Fenestration

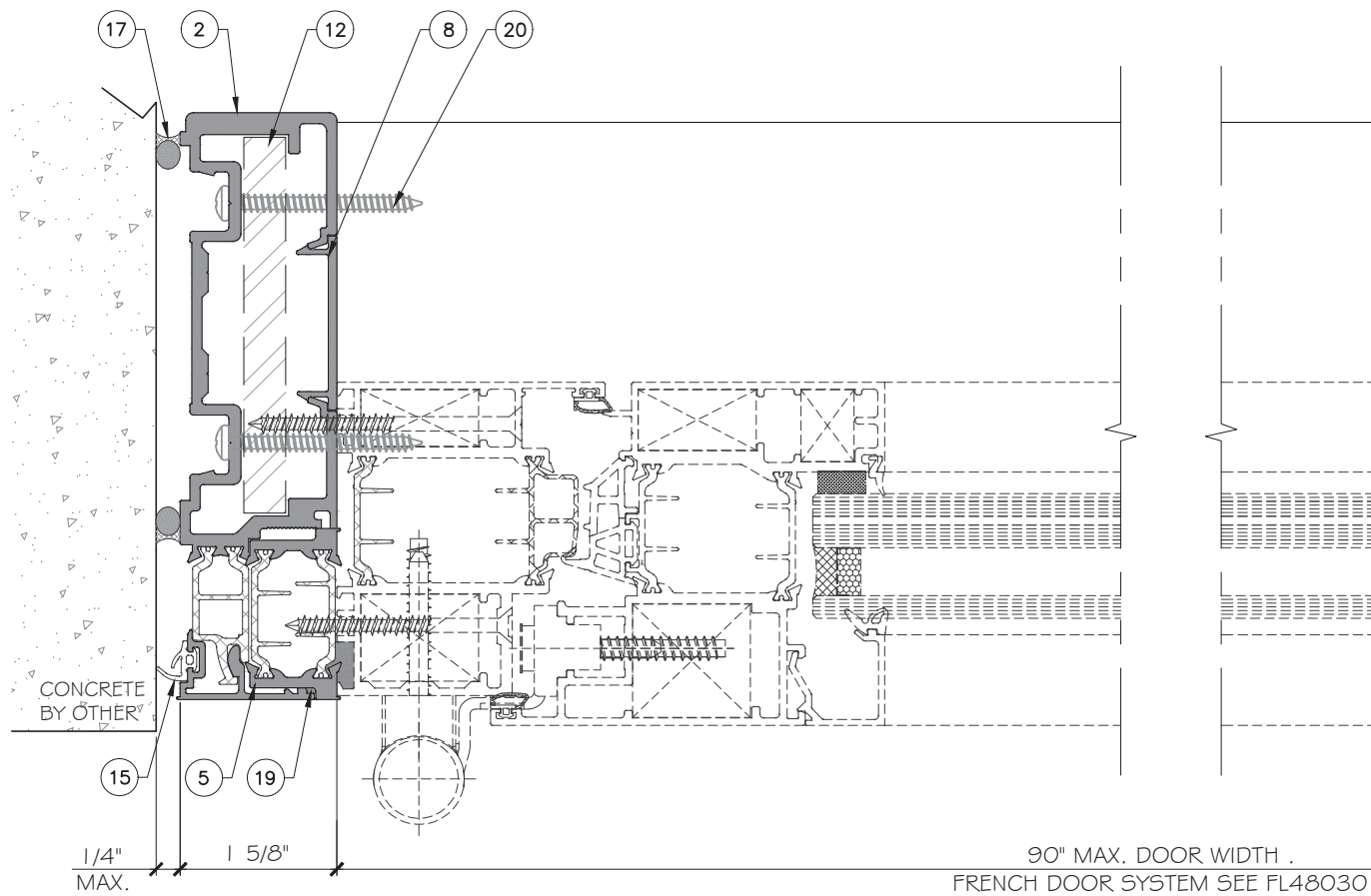
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Drawing No. AD26-07			
Sheet No. 19 OF 26			

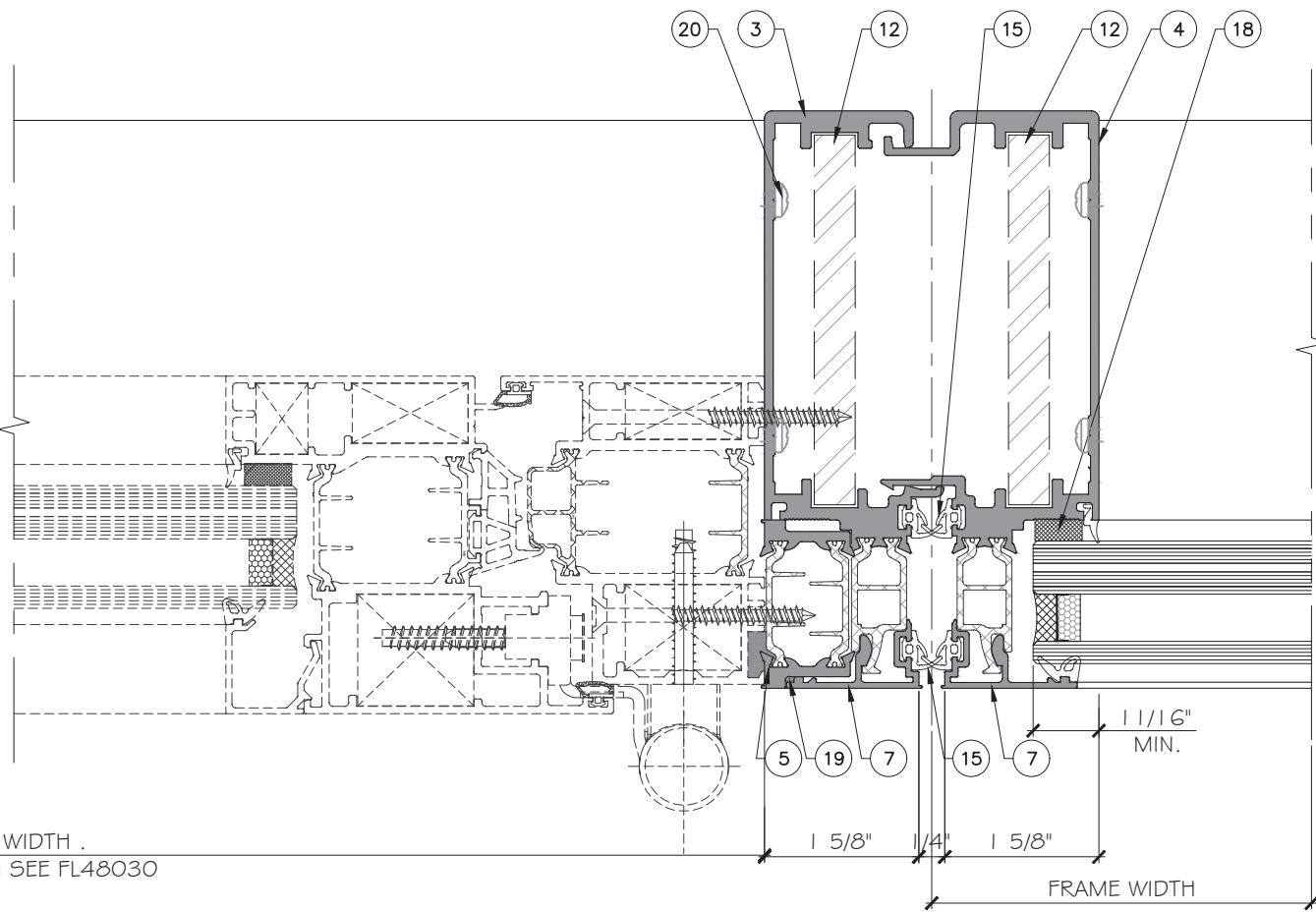
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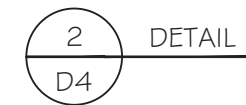
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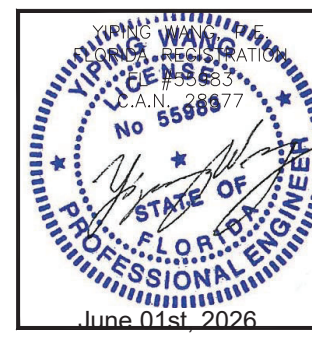
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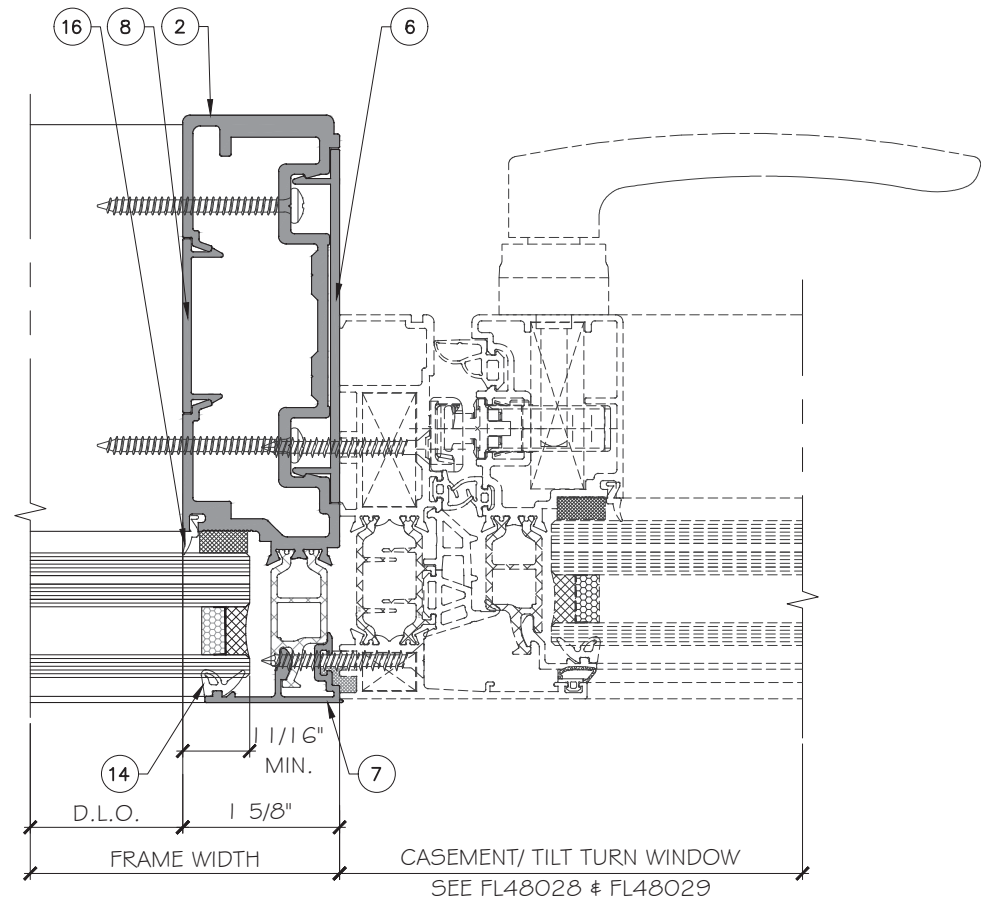
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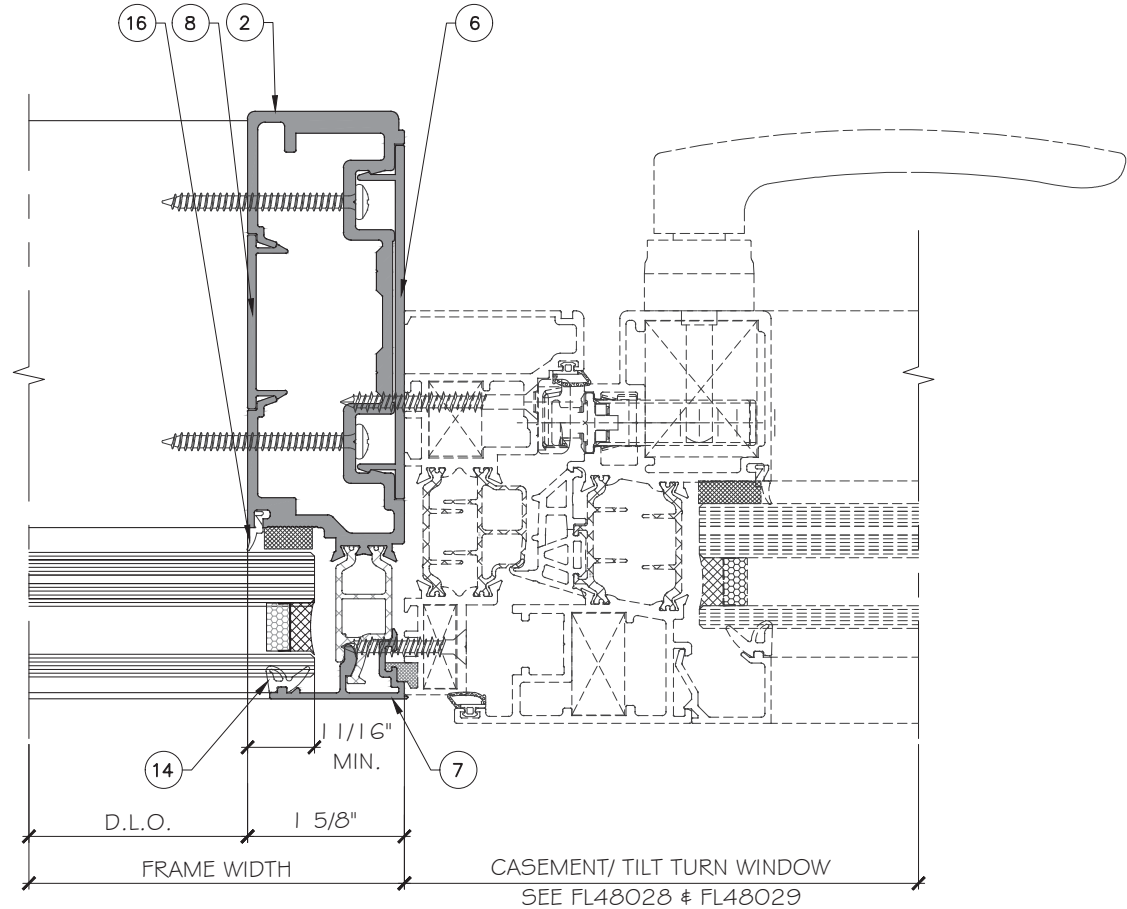
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EXTERIOR

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FLORIDA APPROVAL:
FL48153.1



MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PARKWAY #301
MIRAMAR, FL 33027 P: 305.588.5224
www.MCYEngineering.com mcy@mcyengineering.com

KA4016 THERMAL BREAK WINDOW WALL SYSTEM - LMI
UNI-K Fenestration
KM 8.5 VIA DURAN TAMBO
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Rev. No.	Date	Drawn By	Description
00	05.27.2026	James	NEW APPLICATION

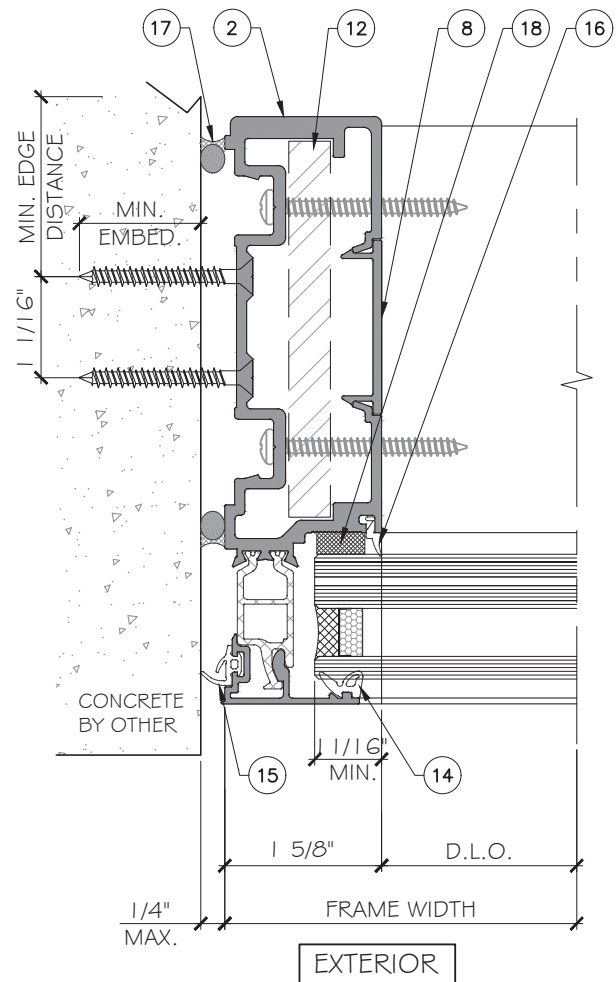
Drawn Date 05.27.2026 Scale AS SHOWN

DRAWING NO.
AD26-07

D6

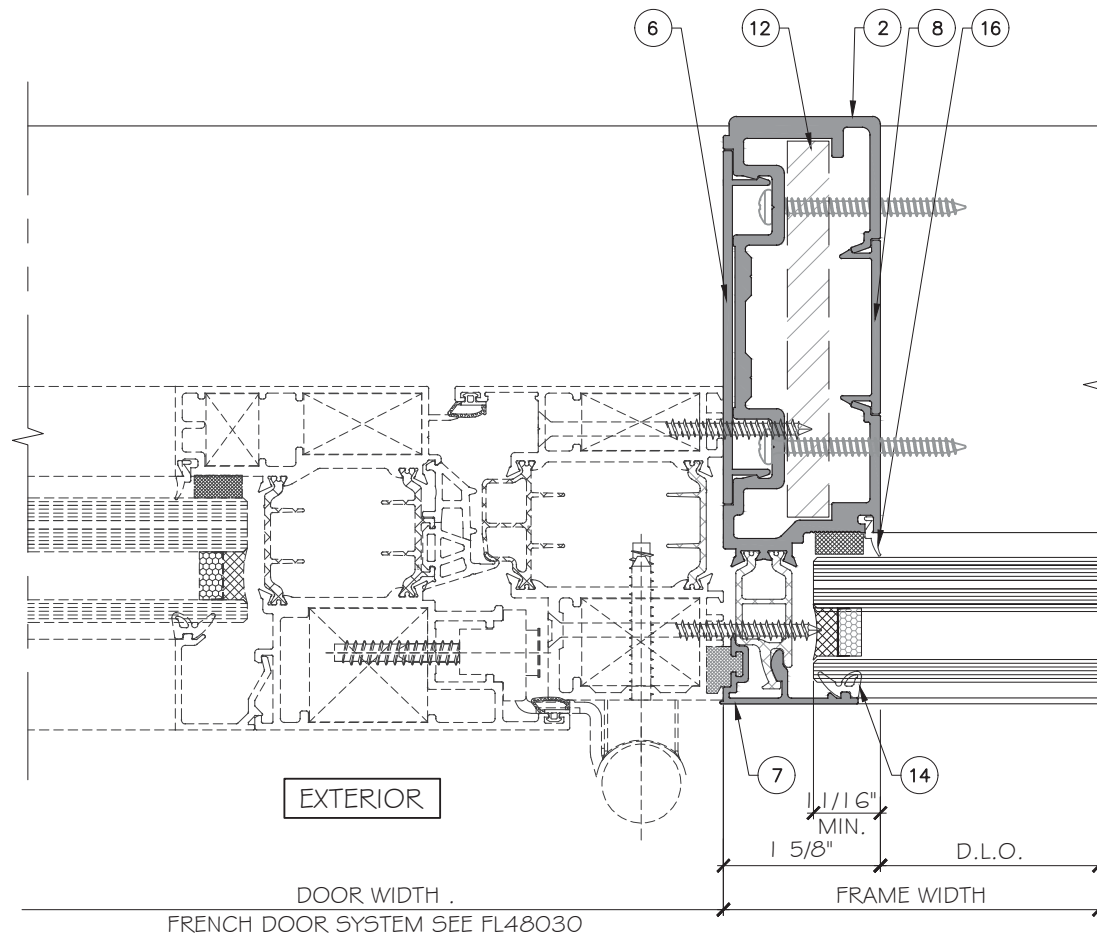
Sheet No.
22 OF 26

SEE CHART FOR USAGE OF
REINFORCEMENT ITEM 12.



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DETAIL

SEE CHART FOR USAGE OF
REINFORCEMENT ITEM 12.



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D7
DETAIL

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FL48153.1

YIPING WANG
REGISTERED PROFESSIONAL ENGINEER
No 55988
C.E.N. 28477
June 01st, 2026

MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PARKWAY #301
MIRAMAR, FL 33027
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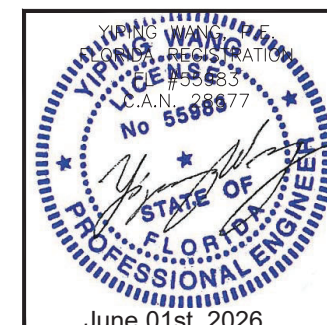
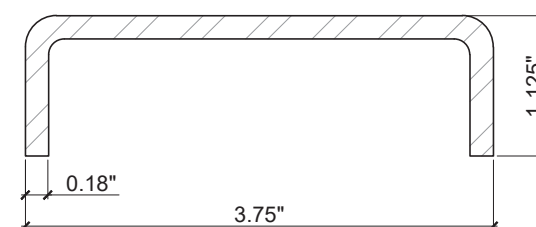
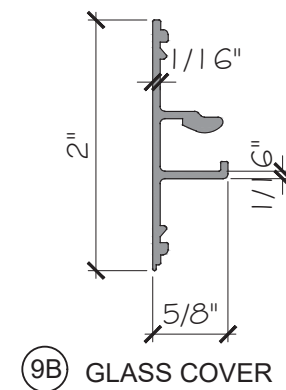
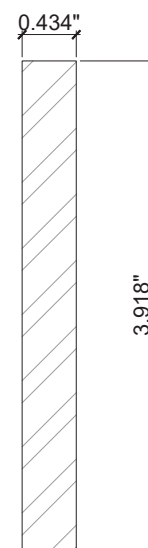
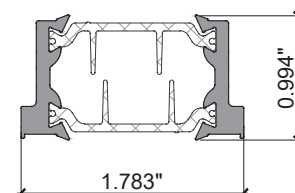
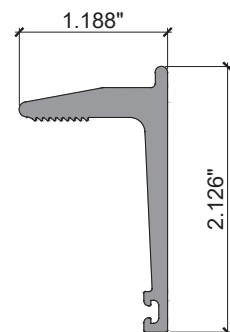
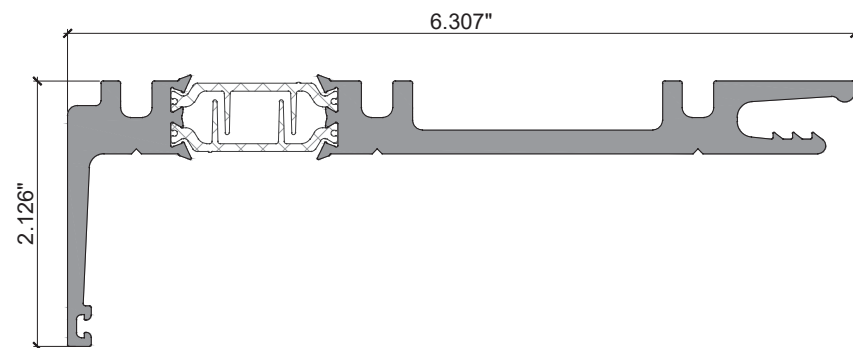
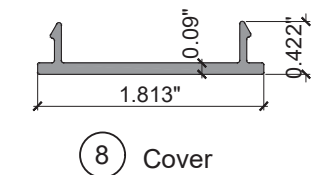
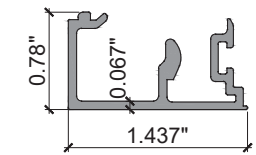
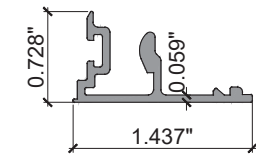
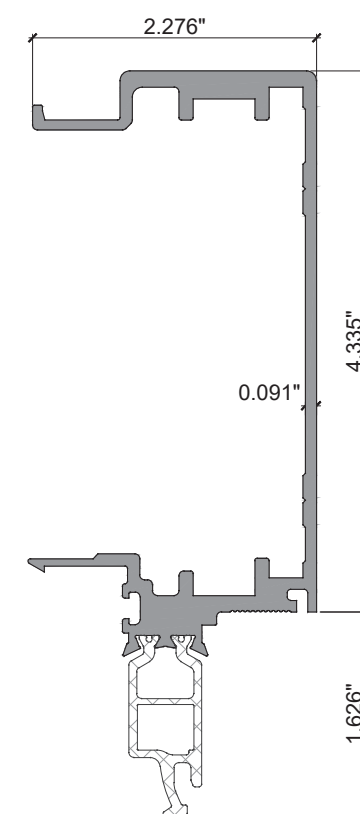
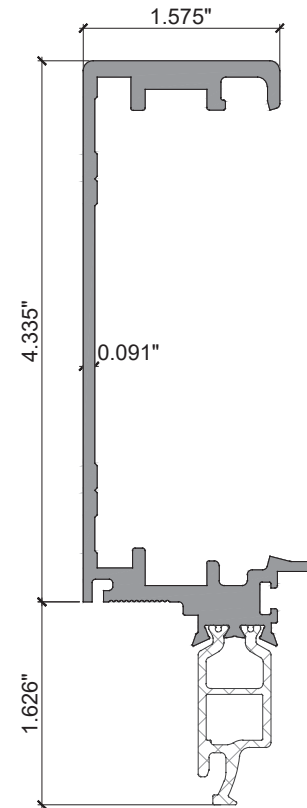
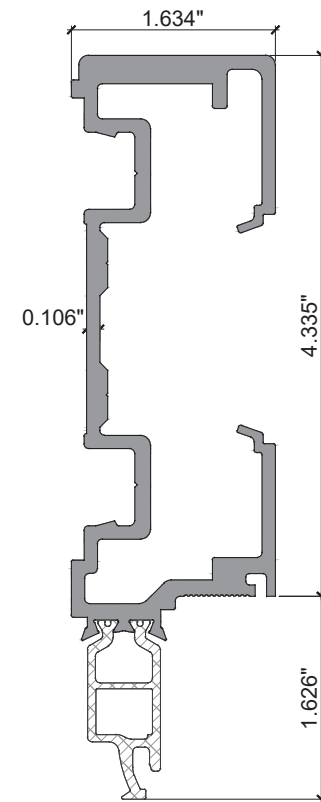
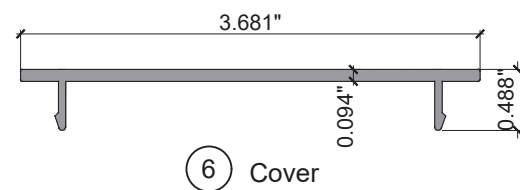
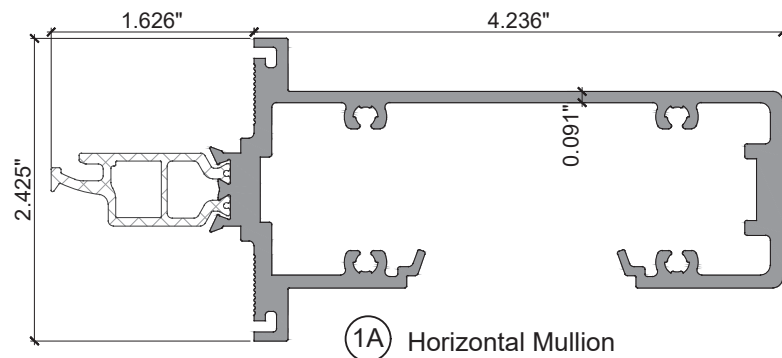
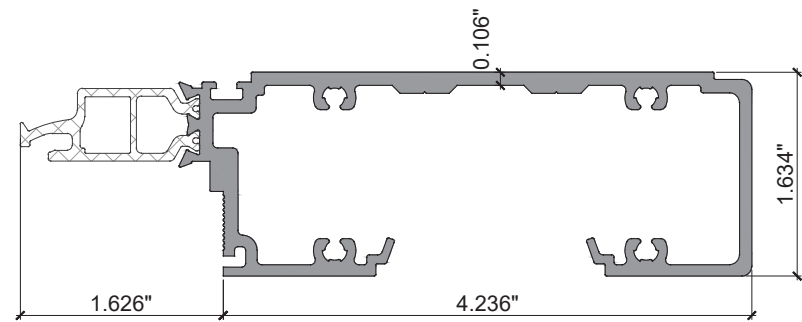
UNI-K Fenestration
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Scale: AS SHOWN

DRAWING NO.
AD26-07

Sheet No.
D7
23 OF 26

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BILL OF MATERIALS				
ITEM	PART	DESCRIPTION	MATERIAL	MANUF. / REMARKS
I	DC1015	HORIZONTAL END MULLION	ALUMINUM.6063-T6	FISA
1A	DC1019	HORIZONTAL MULLION	ALUMINUM.6063-T6	FISA
2	DC1014	VERTICAL END MULLION	ALUMINUM.6063-T6	FISA
3	DC1013	FEMALE MULLION	ALUMINUM.6063-T6	FISA
4	DC1012	MALE MULLION	ALUMINUM.6063-T6	FISA
5	DC1016/1016	SUB FRAME	ALUMINUM.6063-T6	FISA
6	FI-4856	COVER	ALUMINUM.6063-T6	FISA
7/7A	DC1017/DC1018	GLASS COVER	ALUMINUM.6063-T6	FISA
8	FI-6037	COVER	ALUMINUM.6063-T6	FISA
9	DC1040/1039	HEAD RECEPTOR	ALUMINUM.6063-T6	FISA
9B	-	GLASS COVER	ALUMINUM.6063-T6	FISA
10	DC1038	HEAD RECEPTOR COVER	ALUMINUM.6063-T6	FISA
11	GLZ04	PLASTIC SHIM	PLASTIC	EXTERNAL
12	R1-PL1	0.472" x 3.937" REINFORCEMENT PLATE (STEEL)	A36	EXTERNAL
13	R2-C1	3 3/4" x 1 1/8" x 3/16" THK. STEEL CHANNEL	A36	EXTERNAL
14	AC-E-022	EXTERIOR GASKET	EPDM	PRICAL
15	AC-E-026	INTERIOR GASKET	EPDM	PRICAL
16	AC-E-KA-01	GLASS SPACER FOR STRUCTURAL SILICONE	PLASTIC	PRICAL
17	--	EPDM SETTING BLOCK. 75 +/- 5 SHORE A DUROMETER.	EPDM	--
18	GE2000	STRUCTURAL SILICONE	SILICONE	SIKA
	SIKA SG-20	STRUCTURAL SILICONE (AS OPTION)	SILICONE	SIKA
	SIKA SG-500	STRUCTURAL SILICONE (AS OPTION)	SILICONE	SIKA
	DOWSIL 995	STRUCTURAL SILICONE (AS OPTION)	SILICONE	DOWSIL
	DOWSIL 983	STRUCTURAL SILICONE (AS OPTION)	SILICONE	DOWSIL
19	DS790	DS790 WEATHER SEALANT OR EQUAL	SILICONE	DOWSIL
20	#10 X 2"	ASSEMBLY SCREW	STEEL	--
21	#10 X 1"	ASSEMBLY SCREW	STEEL	--

FLORIDA APPROVAL:

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AS SHOWN

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AD26-07

ASSEMBLY

Sheet No.

25 OF 26

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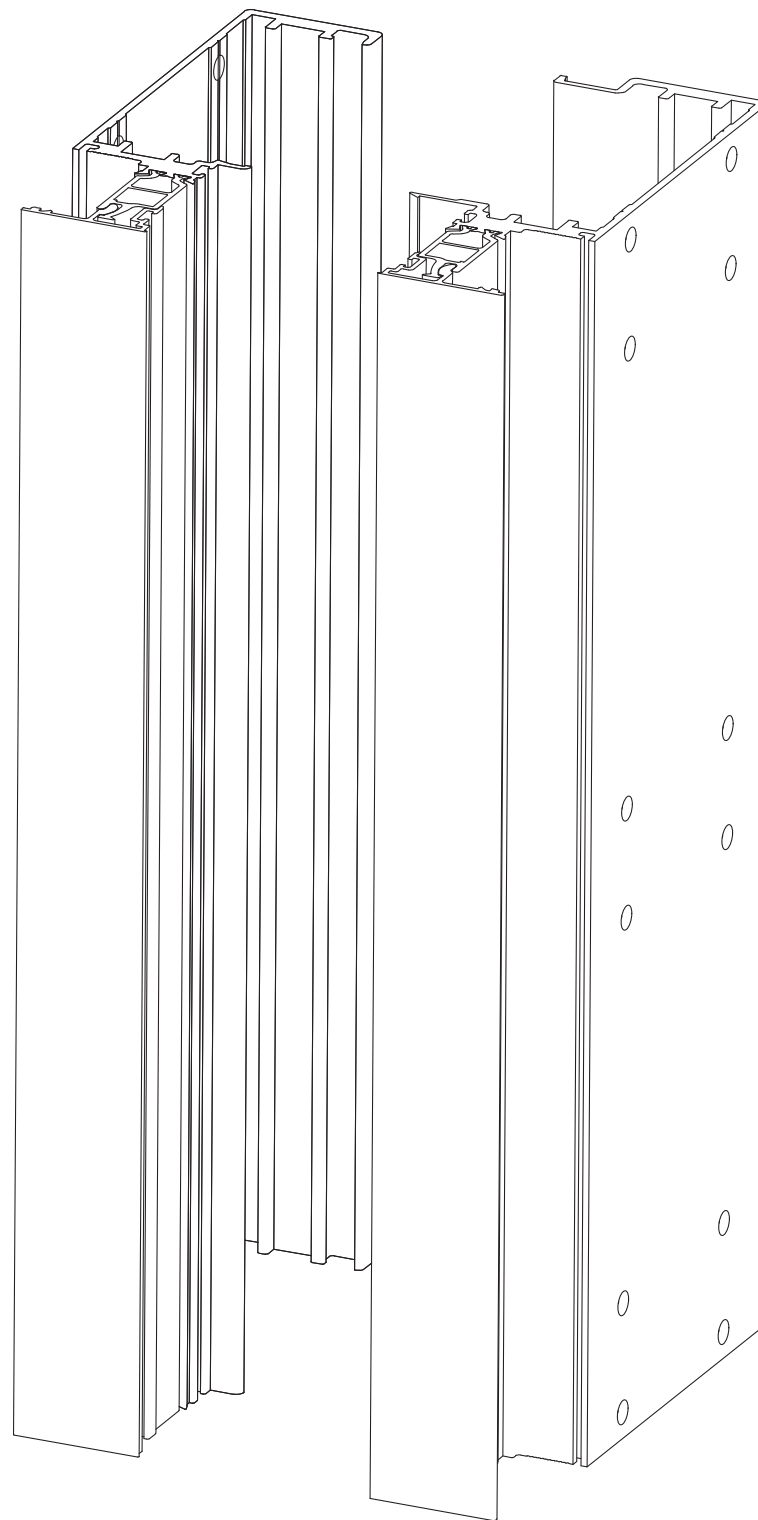
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MIRAMAR, FL 33027

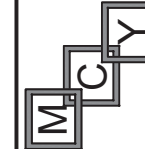
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