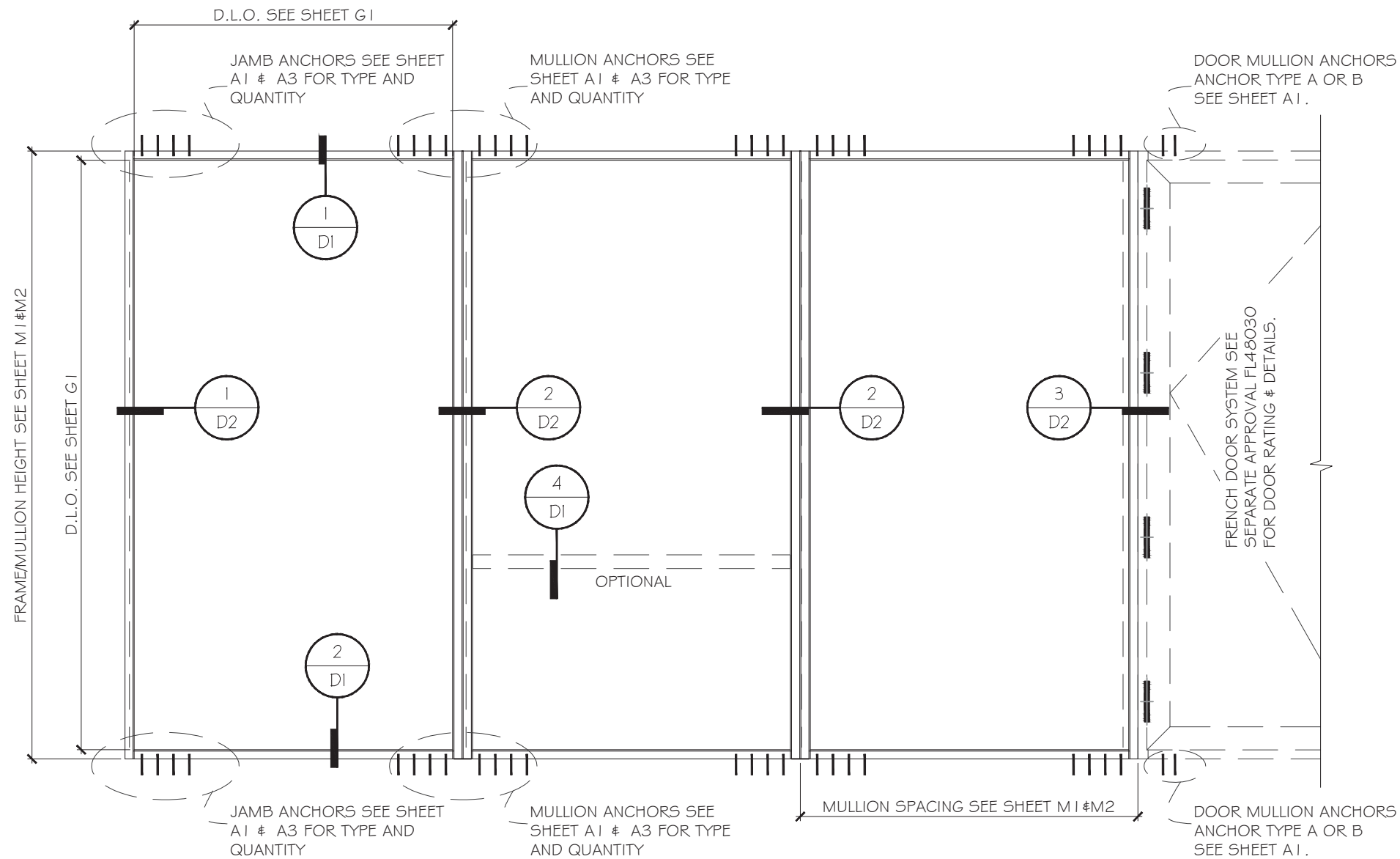




TYPICAL EXTERIOR ELEVATION

FLORIDA APPROVAL:
FL48153.2



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KA4016 THERMAL BREAK WINDOW WALL SYSTEM - SMI

UNI-K Fenestration

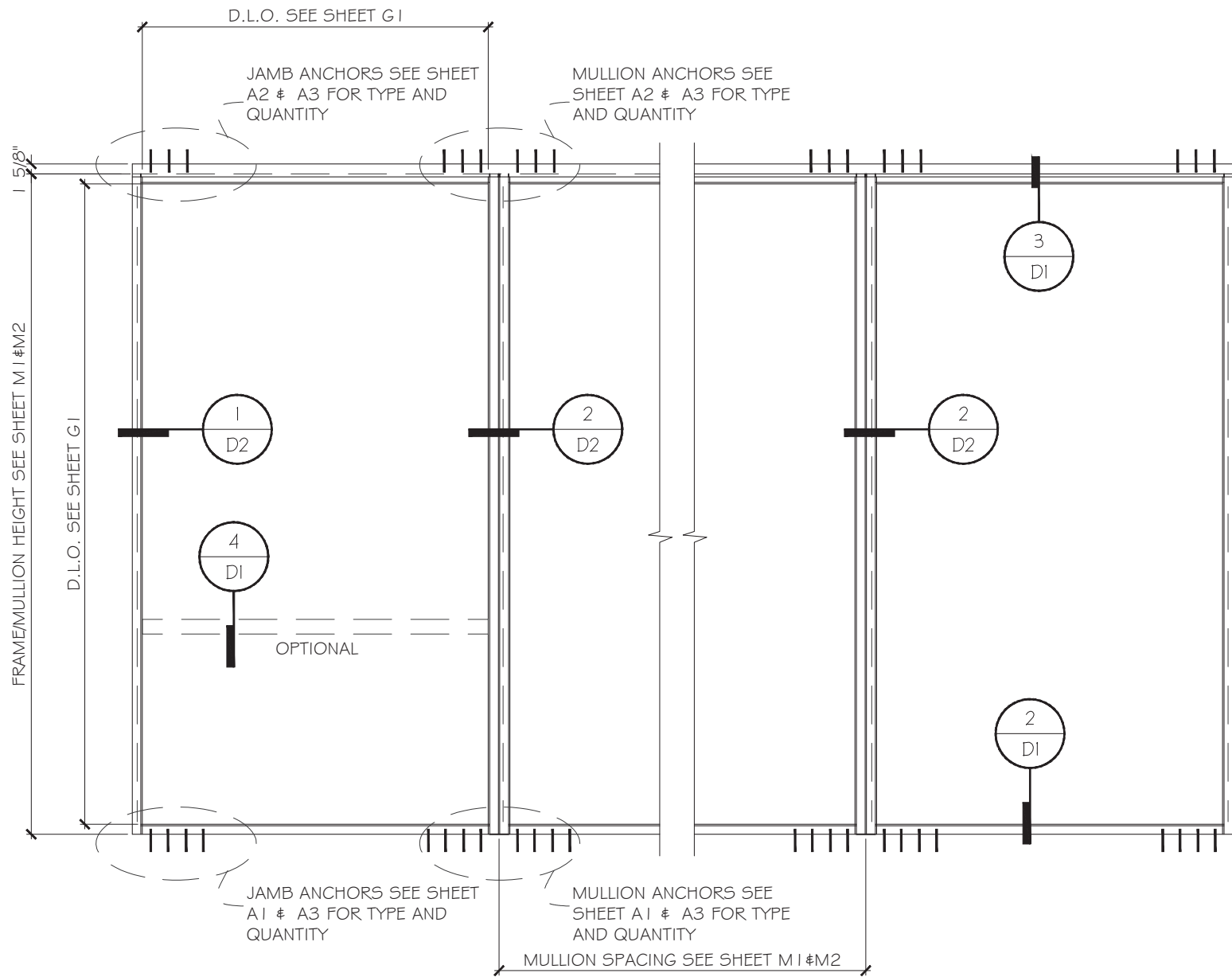
KM 8.5 VIA DURAN TAMBO
GUAYAS, ECUADOR

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

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MIRAMAR, FL 33027 P: 305.588.5224

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TYPICAL EXTERIOR ELEVATION (RECEPTOR HEAD)

FLORIDA APPROVAL:
FL48153.2



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

Drawn Date
05.27.2026

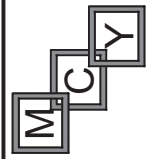
Scale
AS SHOWN

DRAWING NO.
AD26-21

Sheet No.
E2

3 OF 16

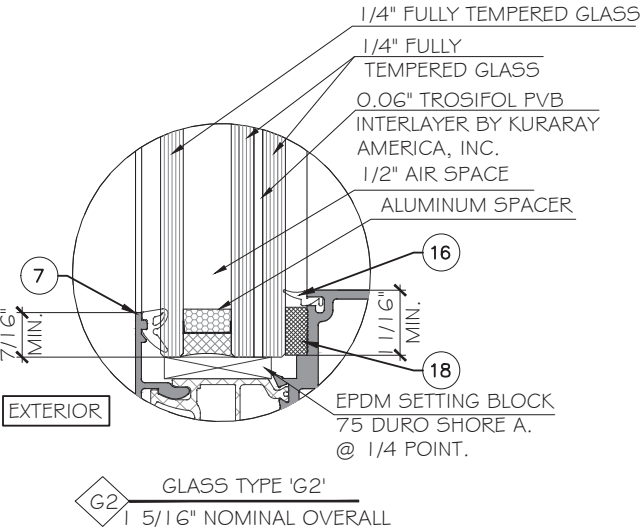
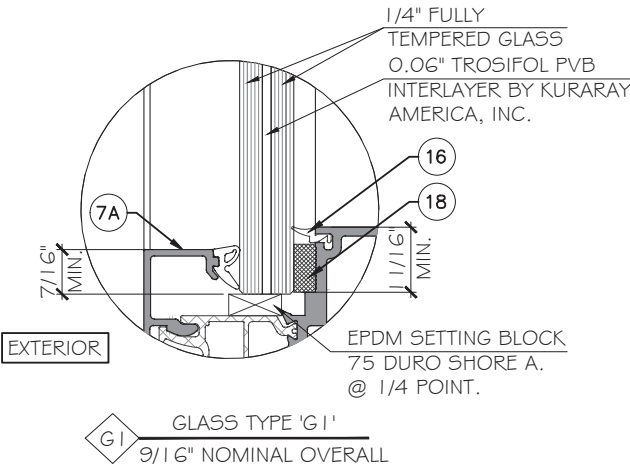
KA4016 THERMAL BREAK WINDOW WALL SYSTEM - SMI
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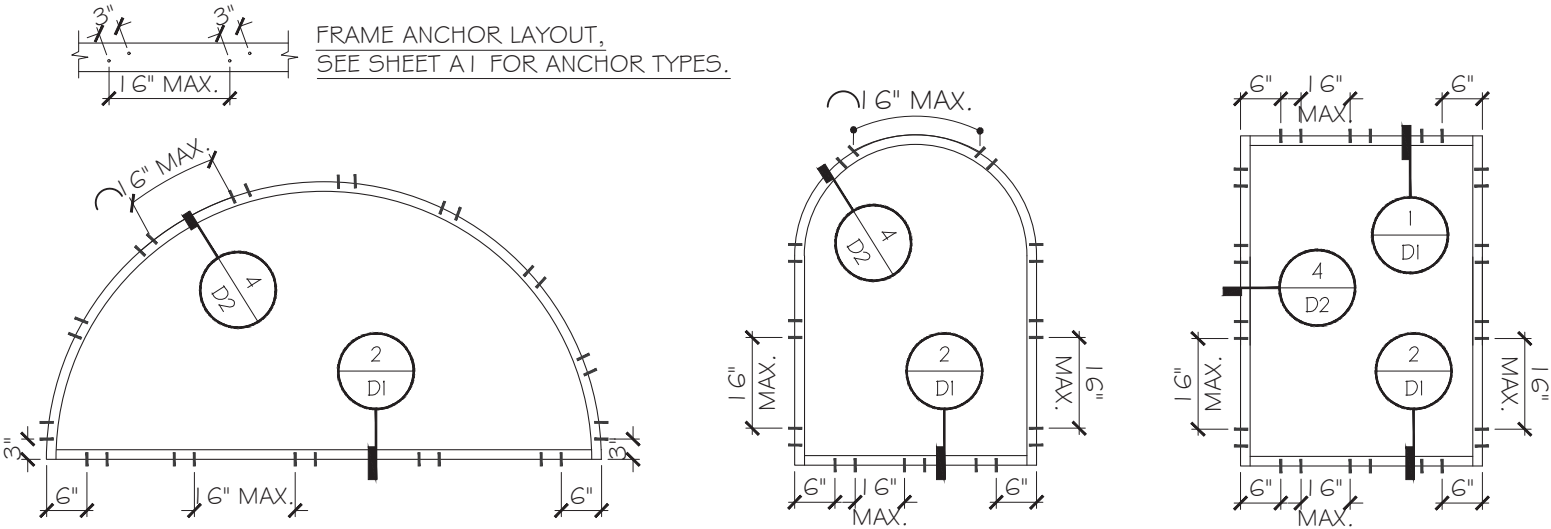
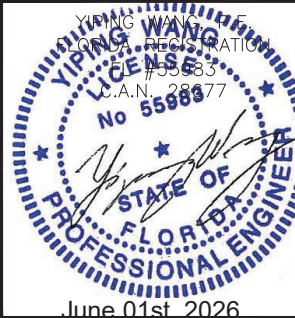
GLASS DESIGN LOAD CAPACITY - PSF		
NORMINAL DIMS.		GLASS TYPE
D.L.O. WIDTH	D.L.O. HEIGHT	G1/G2
INCH	INCH	EXT+ / INT-
38.50	92.75	110
44.50	92.75	110
50.50	92.75	110
56.50	92.75	110
62.50	92.75	110
32.50	98.75	110
38.50	98.75	110
44.50	98.75	110
50.50	98.75	110
56.50	98.75	110
32.50	104.75	110
38.50	104.75	110
44.50	104.75	110
50.50	104.75	110
56.50	104.75	110
26.50	110.75	110
32.50	110.75	110
38.50	110.75	110
44.50	110.75	110
50.50	110.75	110
32.50	116.75	110
38.50	116.75	110
44.50	116.75	110
50.50	116.75	110
32.50	122.75	110
38.50	122.75	110
44.50	122.75	110

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

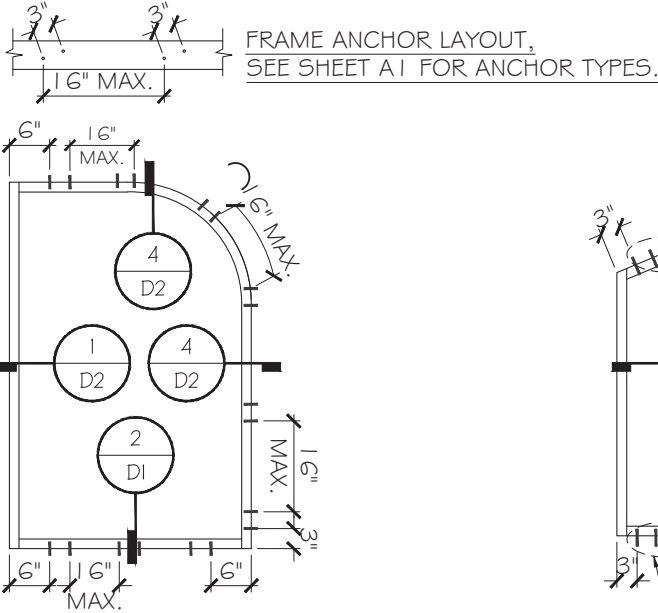


NOTE:
GLASS COMPLIES WITH ASTM E1300-16 (3 SEC. GUSTS).

FLORIDA APPROVAL:
FL48153.2



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

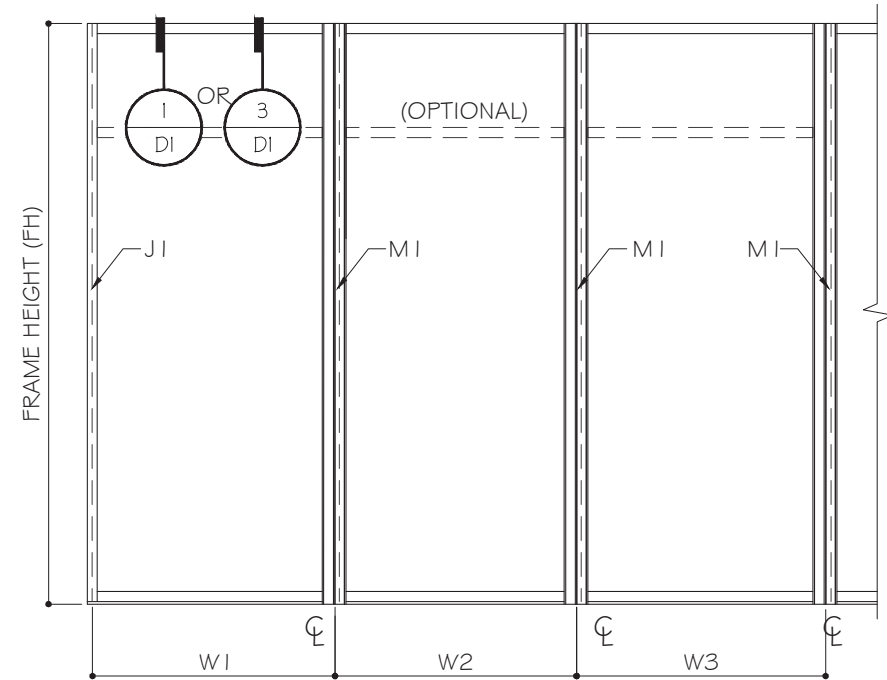


PANEL SHAPE OPTIONS.

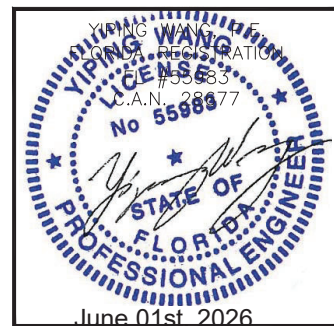
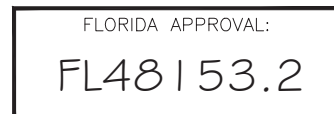
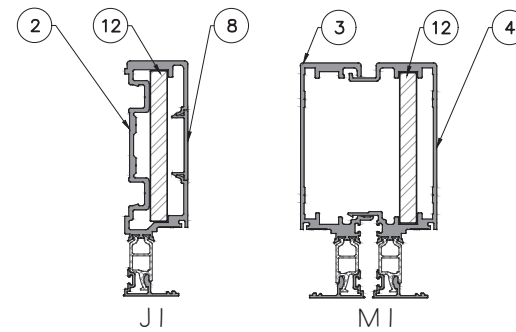
HEAD/SILL
ANCHOR LAYOUT.
SEE SHEET A1 FOR
ANCHOR TYPES.

MULLION DESIGN LOAD CAPACITY - PSF (WITH/WITHOUT INTERMEDIATE HORIZONTALS)		
NOMINAL DIMS.		MULLION TYPE
FW	FH	M I / J I
INCH	INCH	EXT+ / INT-
42	96	110
48	96	110
54	96	110
60	96	110
66	96	110
36	102	110
42	102	110
48	102	110
54	102	110
60	102	110
36	108	110
42	108	110
48	108	110
54	108	110
60	108	110
30	114	110
36	114	110
42	114	110
48	114	110
54	114	104
36	120	110
42	120	110
48	120	100
54	120	89
36	126	110
42	126	99
48	126	86
36	132	100
42	132	86
48	132	75
36	138	88
42	138	75
36	144	77
42	144	66

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



FRAME WIDTH (FW) = W1. (AT JAMB)
FRAME WIDTH (FW) = (W2+W3)/2 (AT MULLION)



MCY ENGINEERING, INC.

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www.MCSEngineering.com mcy@mcysengineering.com

KA4016 THERMAL BREAK WINDOW WALL SYSTEM - SMI

UNI-K Fenestration

KM 8.5 VIA DURAN TAMBO

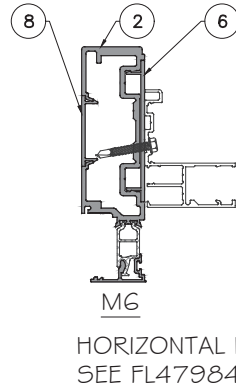
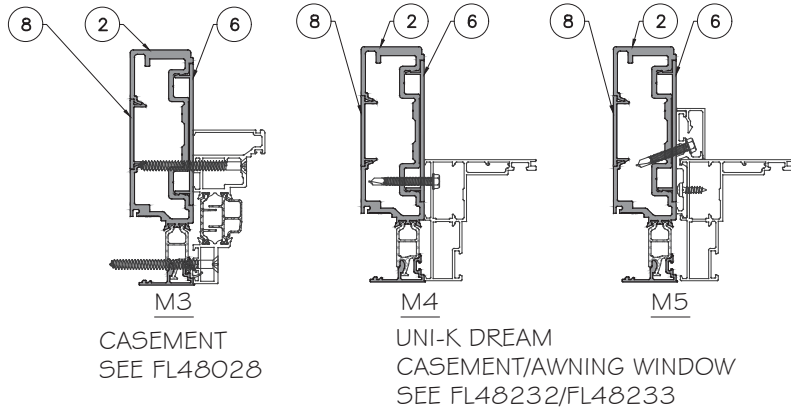
GUAYAS, ECUADOR

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

[illegible]

MULLION DESIGN LOAD CAPACITY - PSF (WITH/WITHOUT INTERMEDIATE HORIZONTALS)		
NOMINAL DIMS.		MULLION TYPE
FW	FH	M3/M4/M5/M6
INCH	INCH	EXT+ / INT-
36	70	110
42	70	110
48	70	110
54	70	110
30	76	110
36	76	110
42	76	110
50	76	110
30	82	110
36	82	110
42	82	104
30	88	110
36	88	98
42	88	84
30	94	97
36	94	81

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



KA4016 THERMAL BREAK WINDOW WALL SYSTEM - SMI

UNI-K Fenestration

KM 8.5 VIA DURAN TAMBO
GUAYAS, ECUADOR

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[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)

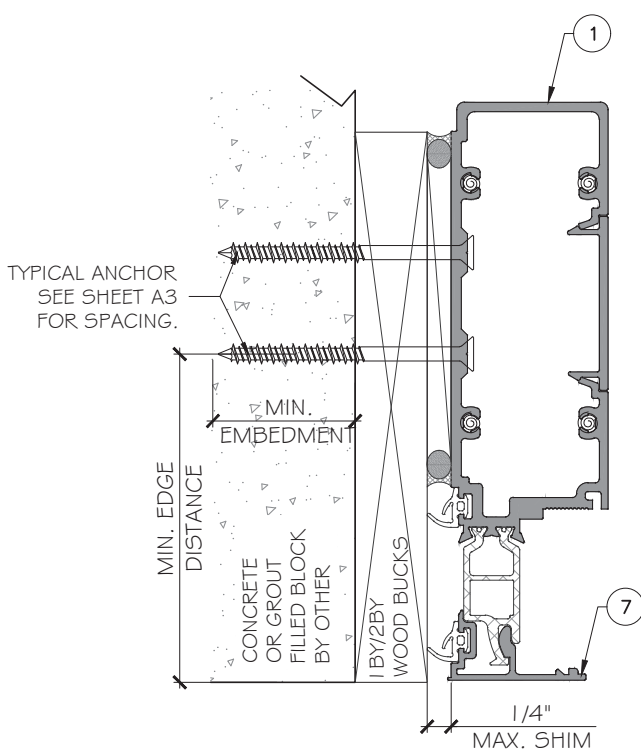
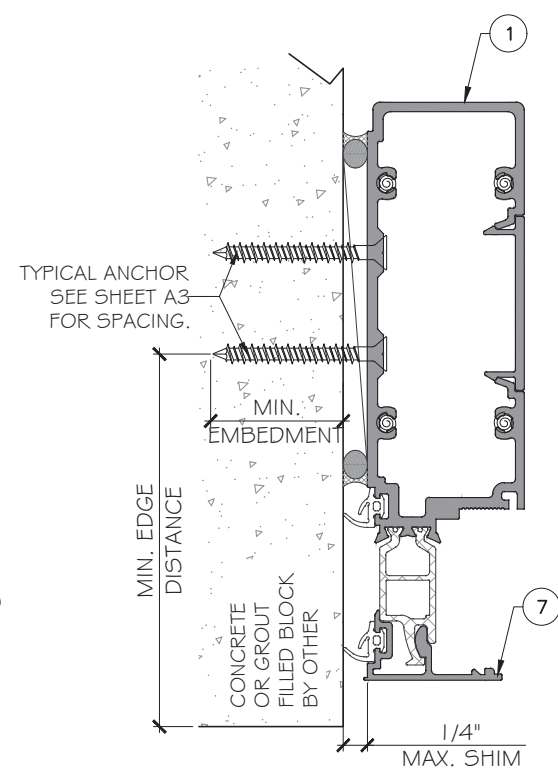
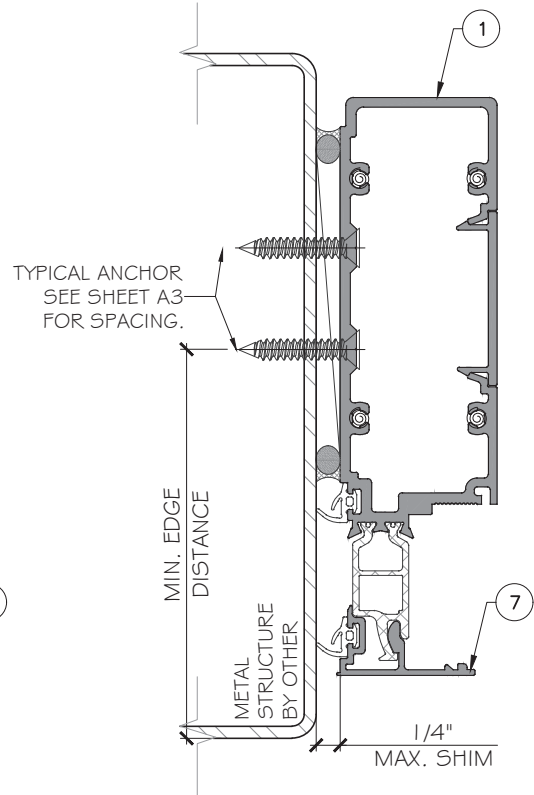
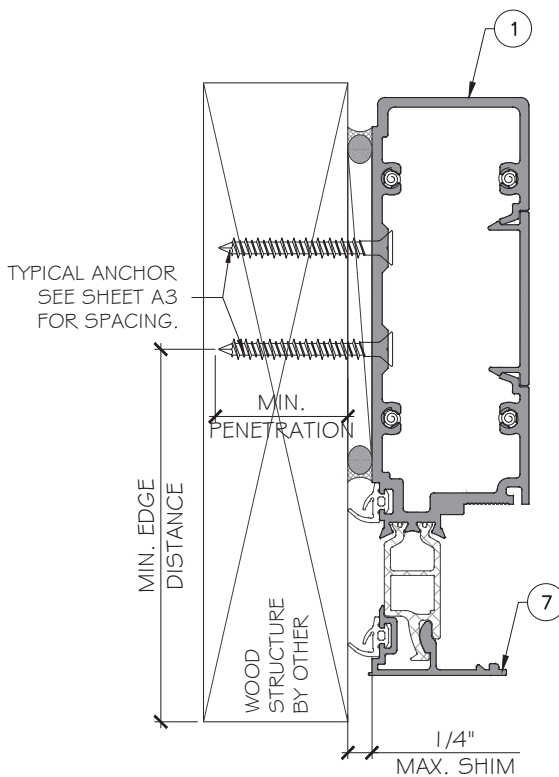
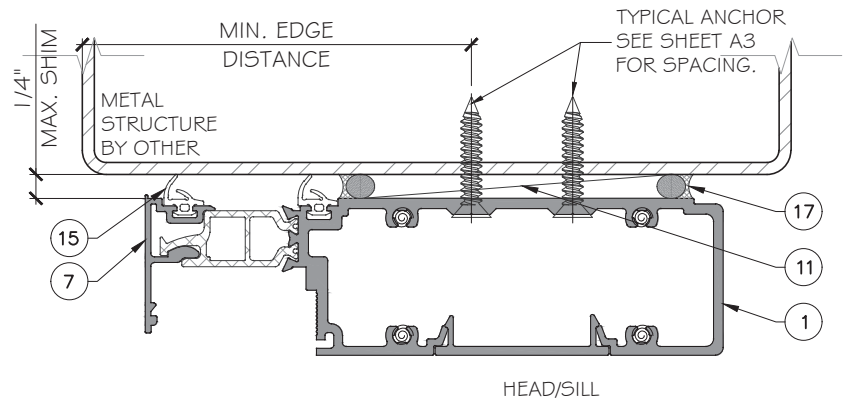
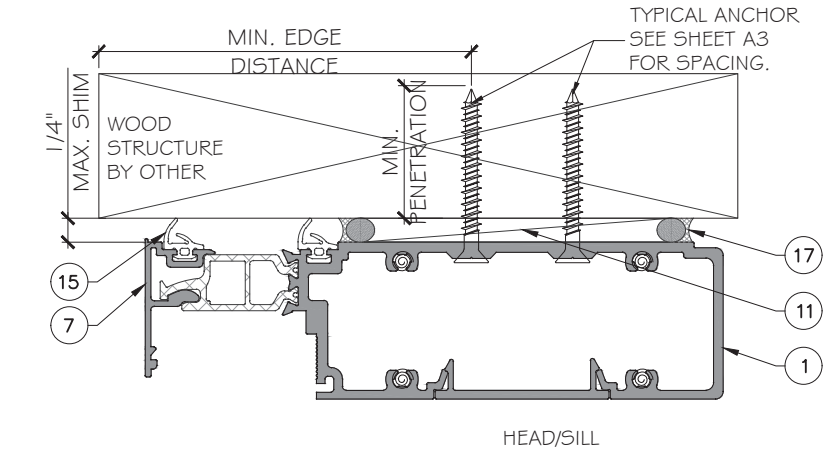
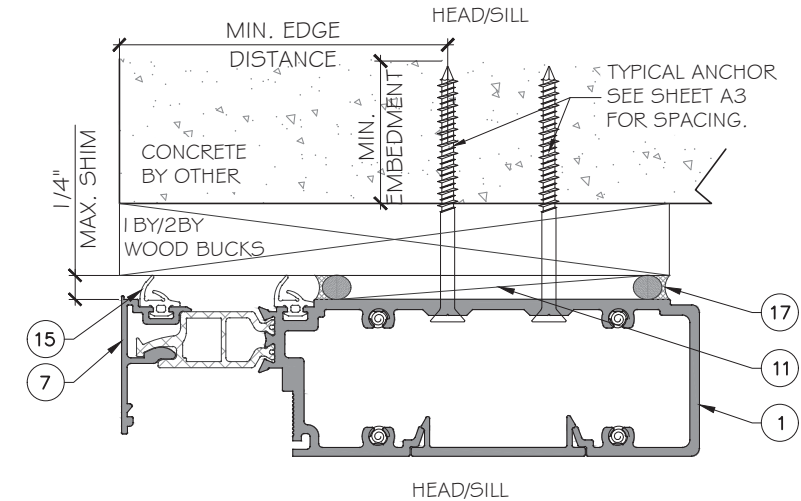
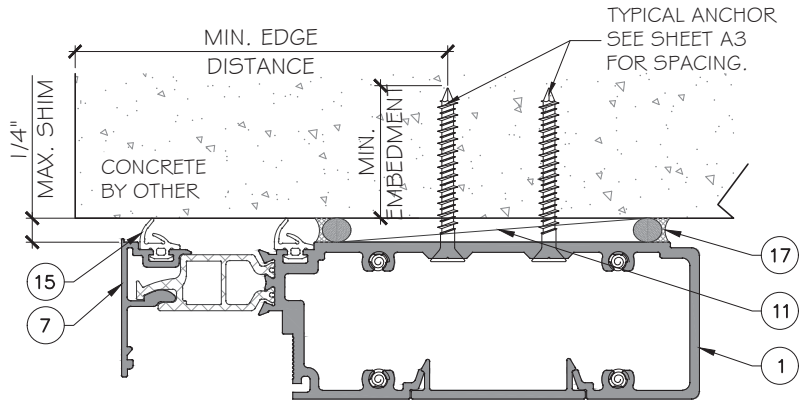
ANCHOR TYPE 'A' - 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONCRETE W/1 3/4" MIN. EMBEDMENT. (HEAD/JAMB/SILL)

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: f'm=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.



FLORIDA APPROVAL:
FL48153.2



MCY ENGINEERING, INC.
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KA4016 THERMAL BREAK WINDOW WALL SYSTEM - SMI
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.

AD26-21

AI

Sheet No.
9 OF 16

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

ANCHOR TYPE 'B' - 1/4" DIA. SELF-DRILLING SCREWS, GRADE 5 (F_u = 120KSI, F_y = 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=0.55MIN.
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. (6063-T5, MIN)
STEEL AT JAMB/HEAD/SILL: 1/8" THK. MIN. ($F_y=36$ KSI MIN)

MIN. EDGE DISTANCE

4 1/2"

MIN. EMBED.

CONCRETE BY OTHER

TYPICAL ANCHOR SEE SHEET A3 FOR SPACING.

1/4" MAX. SHIM

29

10

11

9

MIN. EDGE DISTANCE

4 1/2"

MIN. EMBED.

CONCRETE BY OTHER

1 BY/2 BY WOOD BUCKS

TYPICAL ANCHOR SEE SHEET A3 FOR SPACING.

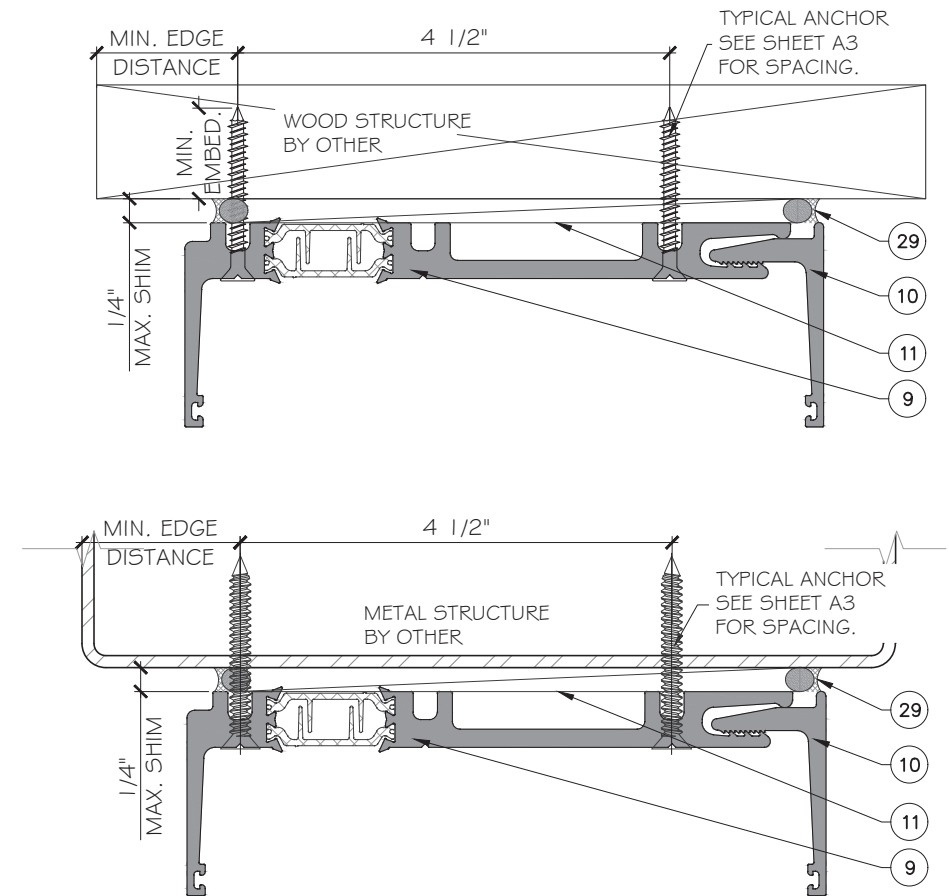
1/4" MAX. SHIM

29

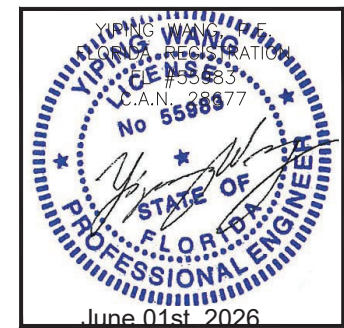
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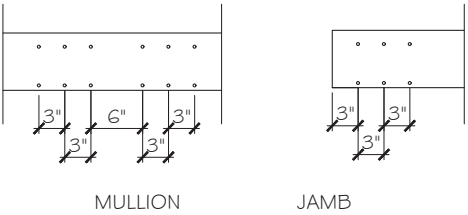
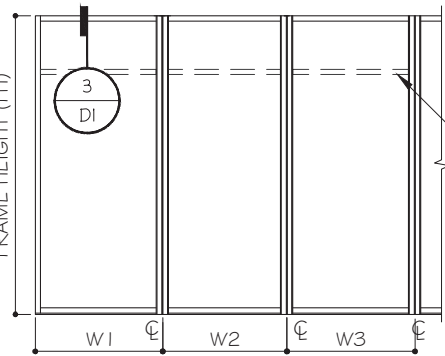


FLORIDA APPROVAL:
FL48153.2



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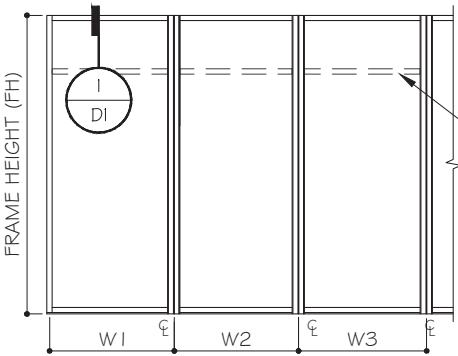
CHART-1 HEAD ANCHOR CAPACITY (RECEPTOR)					
NOMINAL DIMENSION		AA4	AA5	A4	B4
WIDTH	HEIGHT	EXT +/INT-	EXT +/INT-	EXT +/INT-	EXT +/INT-
INCH	INCH	PSF	PSF	PSF	PSF
30	96	110.0	110.0	110.0	110.0
36	96	110.0	110.0	110.0	110.0
42	96	103.4	110.0	110.0	110.0
48	96	90.5	110.0	110.0	103.0
54	96	80.4	100.6	110.0	91.6
30	102	110.0	110.0	110.0	110.0
36	102	110.0	110.0	110.0	110.0
42	102	97.3	110.0	110.0	110.0
48	102	85.2	106.5	110.0	96.9
54	102	75.7	94.6	105.8	86.2
36	108	107.3	110.0	110.0	110.0
42	108	91.9	110.0	110.0	104.6
48	108	80.4	100.6	110.0	91.6
54	108	71.5	89.4	100.0	81.4
60	108	64.4	80.4	90.0	73.2
30	114	110.0	110.0	110.0	110.0
36	114	101.6	110.0	110.0	110.0
42	114	87.1	108.9	110.0	99.1
48	114	76.2	95.3	106.5	86.7
54	114	67.7	84.7	94.7	77.1
36	120	96.5	110.0	110.0	109.9
42	120	82.7	103.4	110.0	94.2
48	120	72.4	90.5	101.2	82.4
54	120	64.4	80.4	90.0	73.2
36	126	91.9	110.0	110.0	104.6
42	126	78.8	98.5	110.0	89.7
48	126	69.0	86.2	96.4	78.5



AAG/AG/B6-(6) ANCHOR AT EACH END OF MULLION/JAMB (ONLY HEAD)
SILL ANCHOR REFER TO CHART 2.

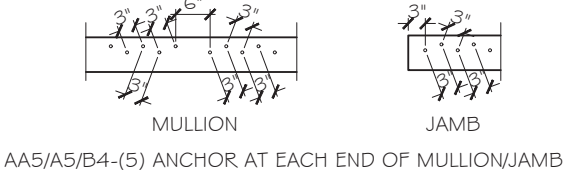
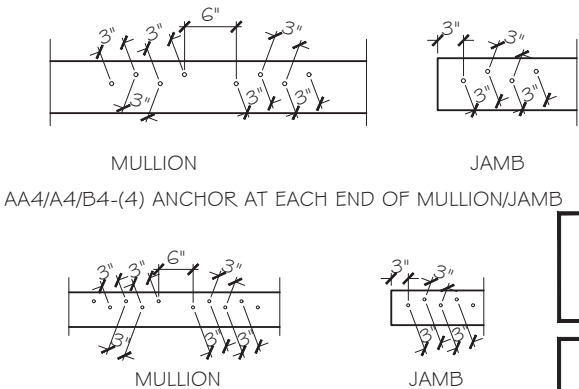
FRAME WIDTH (FW) = W1. (AT JAMB)
FRAME WIDTH (FW) = (W2+W3)/2 (AT MULLION)
NOTE: FOR SIZE SHOWN IN CHART OR SMALLER AS PERMITTED BY FBC.

CHART-2 HEAD AND SILL ANCHOR CAPACITY (DIRECT INTO SUBSTRATE)					
NOMINAL DIMENSION		AA4	AA5	A4	B4
WIDTH	HEIGHT	EXT +/INT-	EXT +/INT-	EXT +/INT-	EXT +/INT-
INCH	INCH	PSF	PSF	PSF	PSF
30	96	110.0	110.0	110.0	110.0
36	96	110.0	110.0	110.0	110.0
42	96	110.0	110.0	110.0	110.0
48	96	108.5	110.0	110.0	110.0
54	96	96.4	110.0	110.0	110.0
30	102	110.0	110.0	110.0	110.0
36	102	110.0	110.0	110.0	110.0
42	102	110.0	110.0	110.0	110.0
48	102	102.1	110.0	110.0	110.0
54	102	90.8	110.0	110.0	110.0
36	108	110.0	110.0	110.0	110.0
42	108	110.0	110.0	110.0	110.0
48	108	96.4	110.0	110.0	110.0
54	108	85.7	107.2	110.0	110.0
60	108	77.2	96.4	110.0	110.0
30	114	110.0	110.0	110.0	110.0
36	114	110.0	110.0	110.0	110.0
42	114	104.4	110.0	110.0	110.0
48	114	91.4	110.0	110.0	110.0
54	114	81.2	101.5	110.0	110.0
36	120	110.0	110.0	110.0	110.0
42	120	99.2	110.0	110.0	110.0
48	120	86.8	108.5	110.0	110.0
54	120	77.2	96.4	110.0	110.0
36	126	110.0	110.0	110.0	110.0
42	126	94.5	110.0	110.0	110.0
48	126	82.7	103.3	110.0	110.0



FRAME WIDTH (FW) = W1. (AT JAMB)
FRAME WIDTH (FW) = (W2+W3)/2 (AT MULLION)

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



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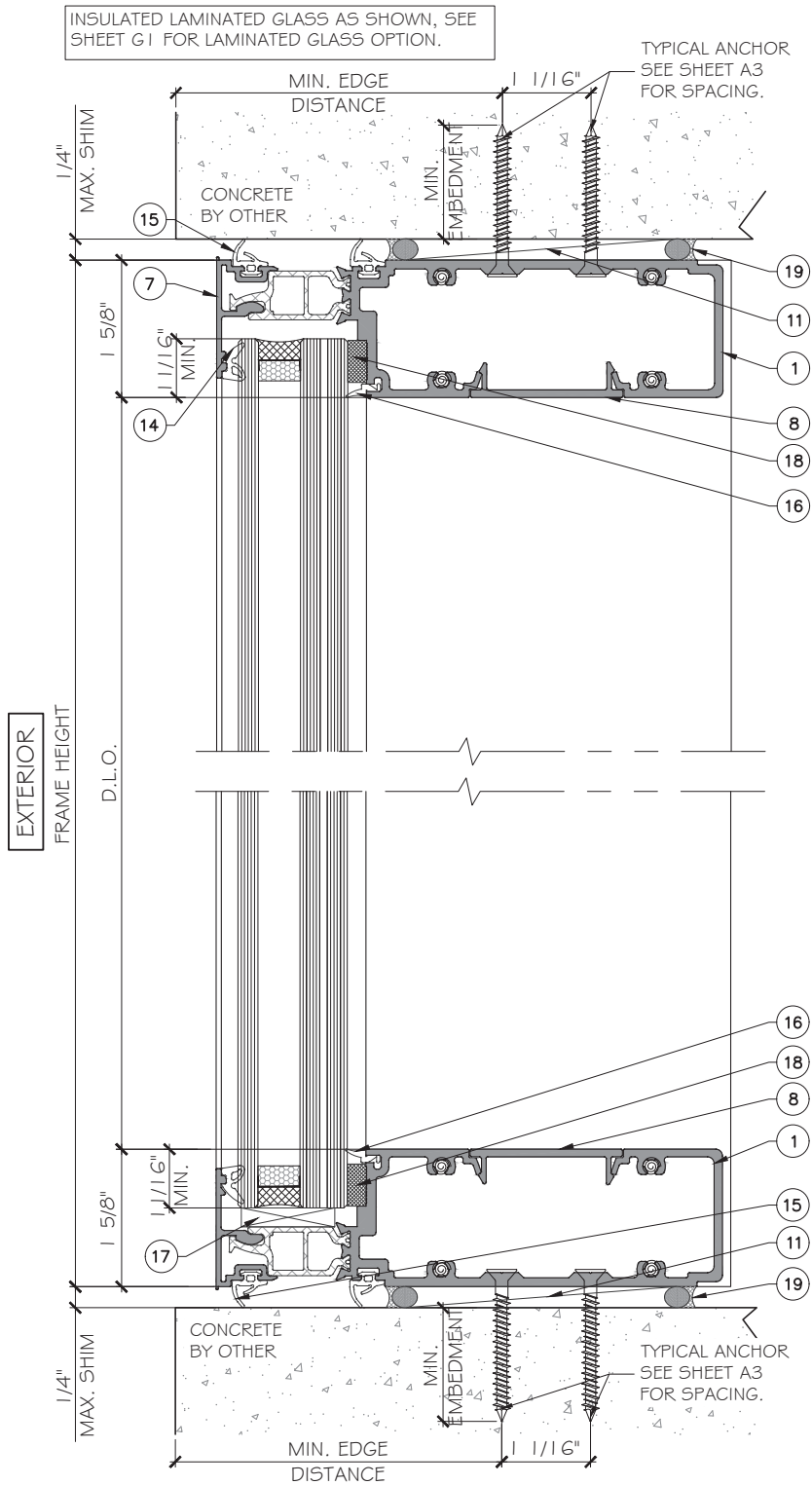


Rev. No.	Date	Drawn By	Description
00	05.27.2026	James	NEW APPLICATION

Drawn Date 05.27.2026 Scale AS SHOWN

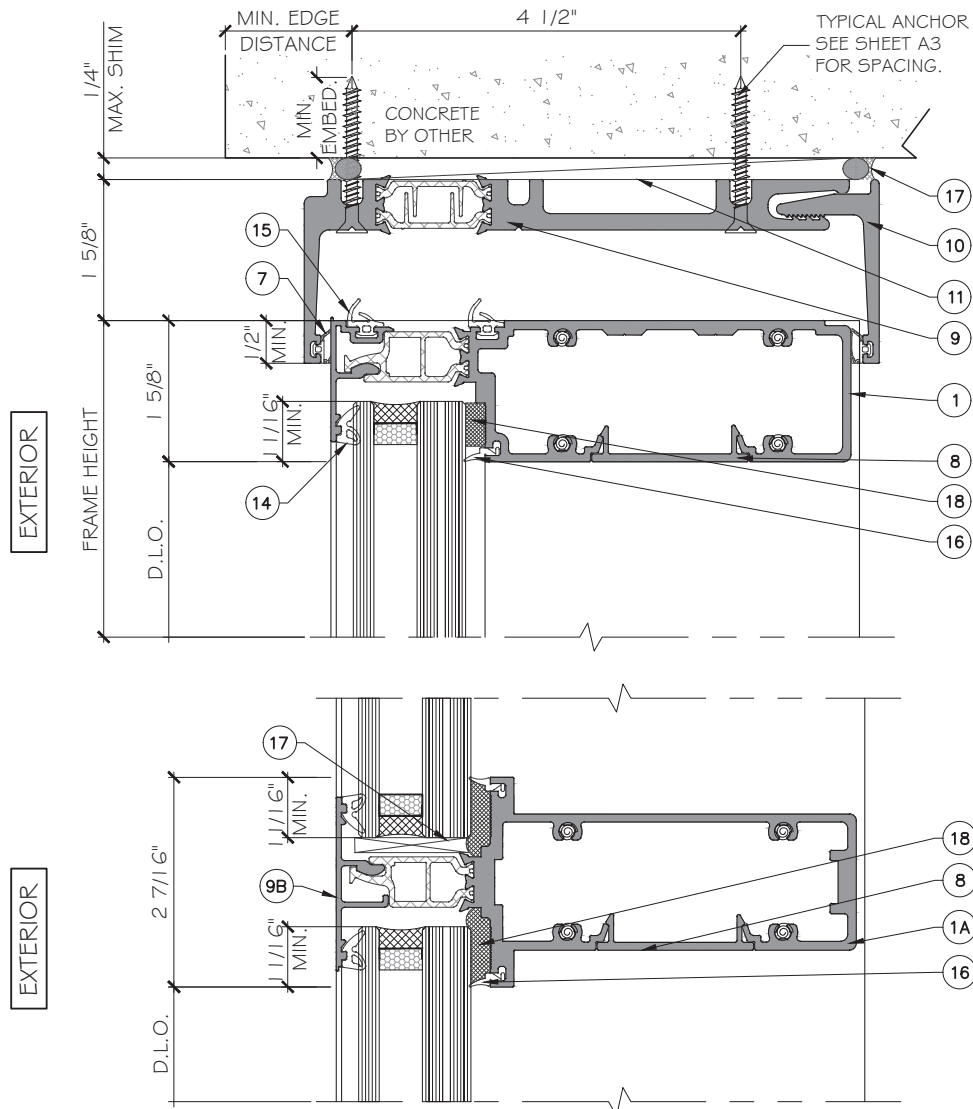
DRAWING NO.
AD26-21

A3
Sheet No.
11 OF 16



1
DI
DETAIL

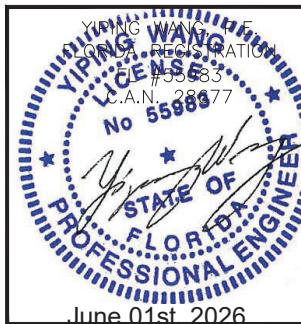
2
DI
DETAIL



3
DI
DETAIL

4
DI
DETAIL

FLORIDA APPROVAL:
FL48153.2



KA4016 THERMAL BREAK WINDOW WALL SYSTEM - SMI

UNI-K Fenestration

KM 8.5 VIA DURAN TAMBO
GUAYAS, ECUADOR

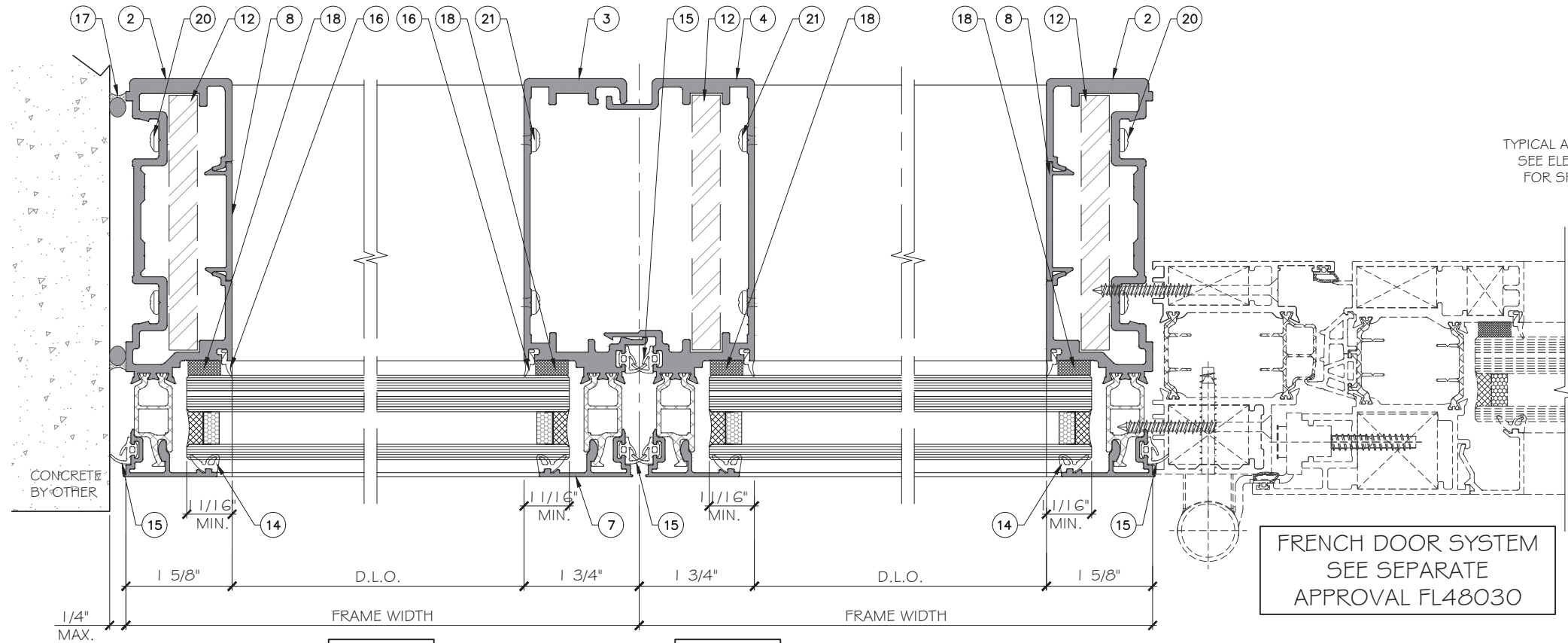
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GLAZING CONSULTANTS
12781 MIRAMAR PARKWAY #301
MIRAMAR, FL 33027 P: 305.588.5224
www.MCYEngineering.com mcy@mcyengineering.com

Rev. No.	Date	Drawn By	Description
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Drawing Date: 05.27.2026 Scale: AS SHOWN			
Drawing No. AD26-21			
Sheet No. 12 OF 16			

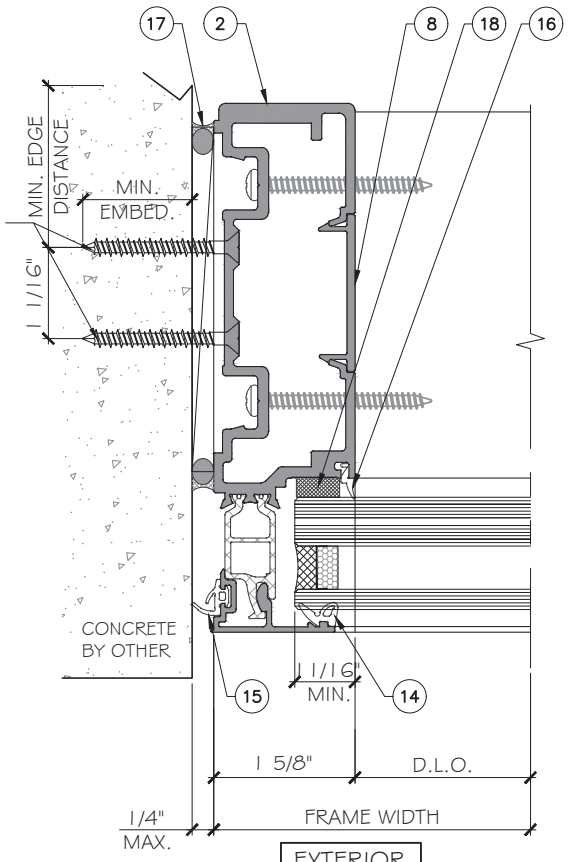
SEE CHART FOR USAGE OF
REINFORCEMENT ITEM 12.

SEE CHART FOR USAGE OF
REINFORCEMENT ITEM 12.



TYPICAL ANCHOR
SEE ELEVATION
FOR SPACING.

FRENCH DOOR SYSTEM
SEE SEPARATE
APPROVAL FL48030

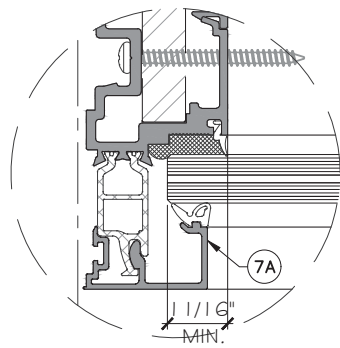


1
D2
DETAIL

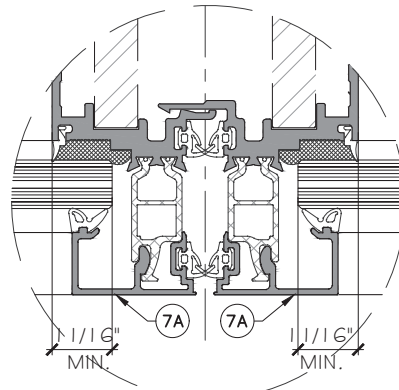
2
D2
DETAIL

3
D2
DETAIL

4
D2
DETAIL

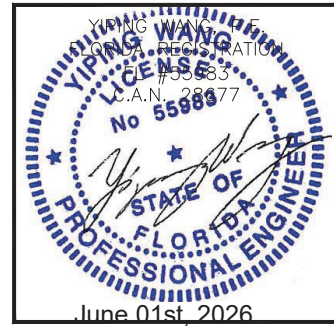


LAMINATED GLASS OPTION

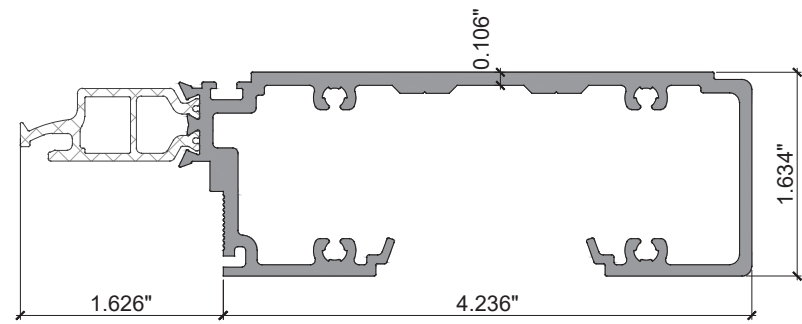


LAMINATED GLASS OPTION

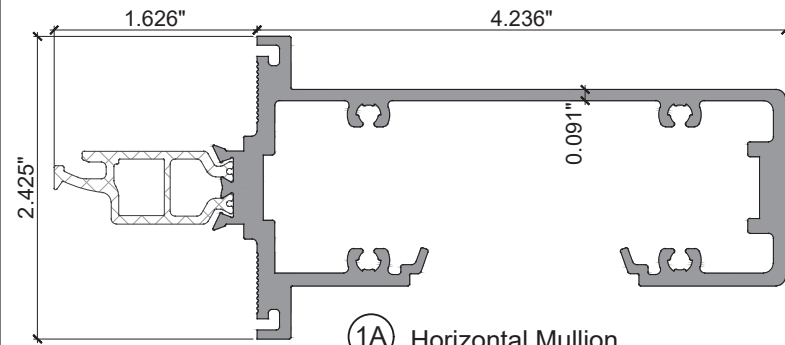
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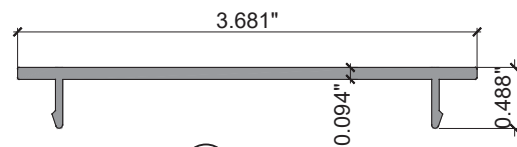
Rev. No.	Date	Drawn By	Description
00	05.27.2026	James	NEW APPLICATION
Drawing Date: 05.27.2026 Scale: AS SHOWN			
Drawing No. AD26-21			
Sheet No. D2			
13 OF 16			



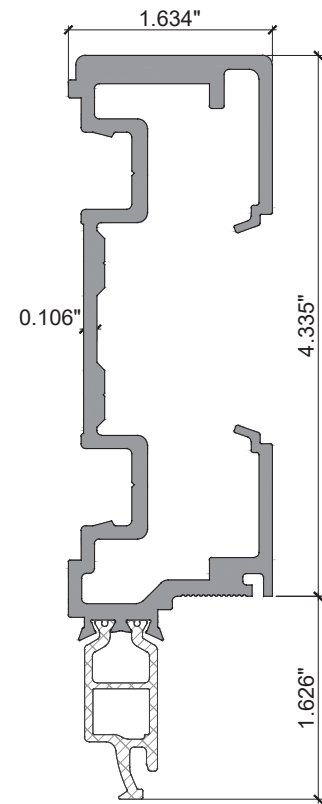
① Horizontal End Mullion



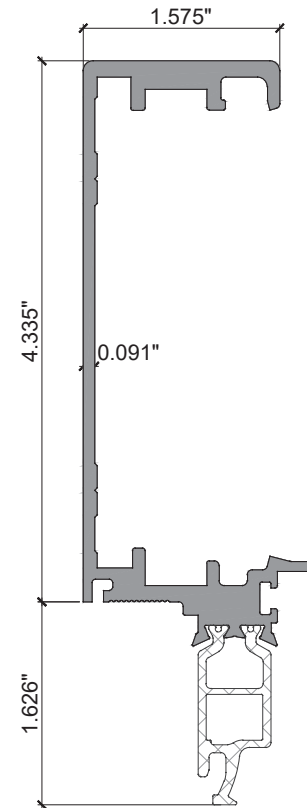
①A Horizontal Mullion



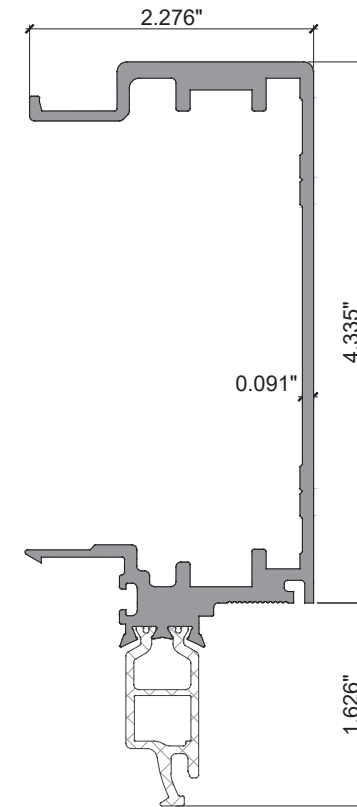
⑥ Cover



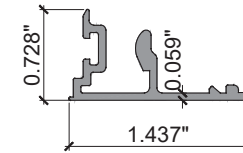
② Vertical End Mullion



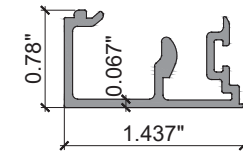
③ Female Mullion



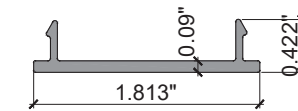
④ Male Mullion



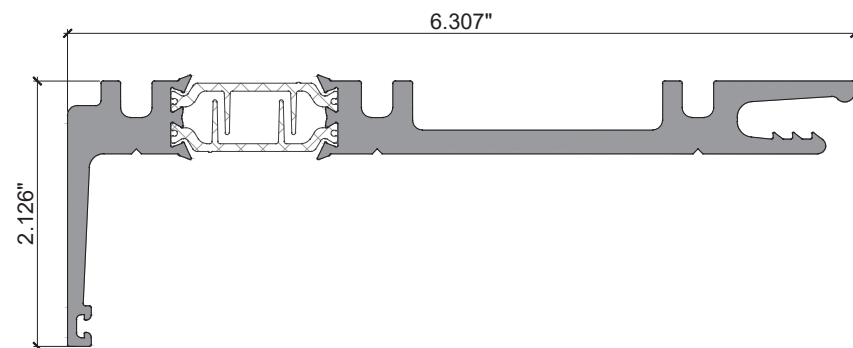
⑦ Glass Cover



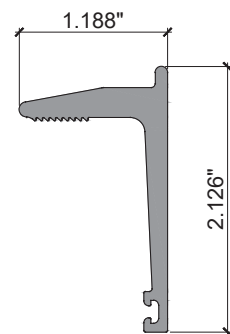
7A Glass Cover



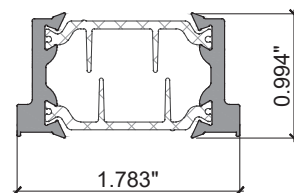
8 Cover



⑨ HEAD RECEPTOR



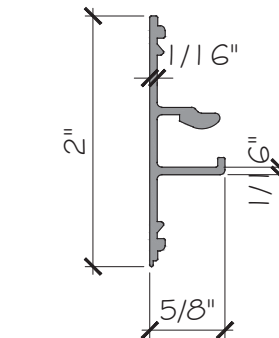
⑩ HEAD RECEPTOR COVER



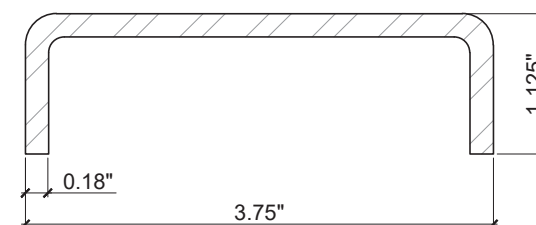
⑤ Sub Frame



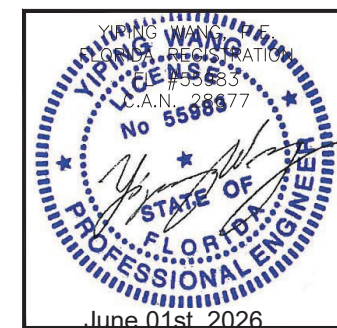
⑫ Reinforcement Plate (steel)



(9B) GLASS COVER



⑬ Reinforcement Plate (steel)

[illegible]

KA4016 THERMAL BREAK WINDOW WALL SYSTEM - SMI

UNI-K Fenestration

KM 8.5 VIA DURAN TAMBO
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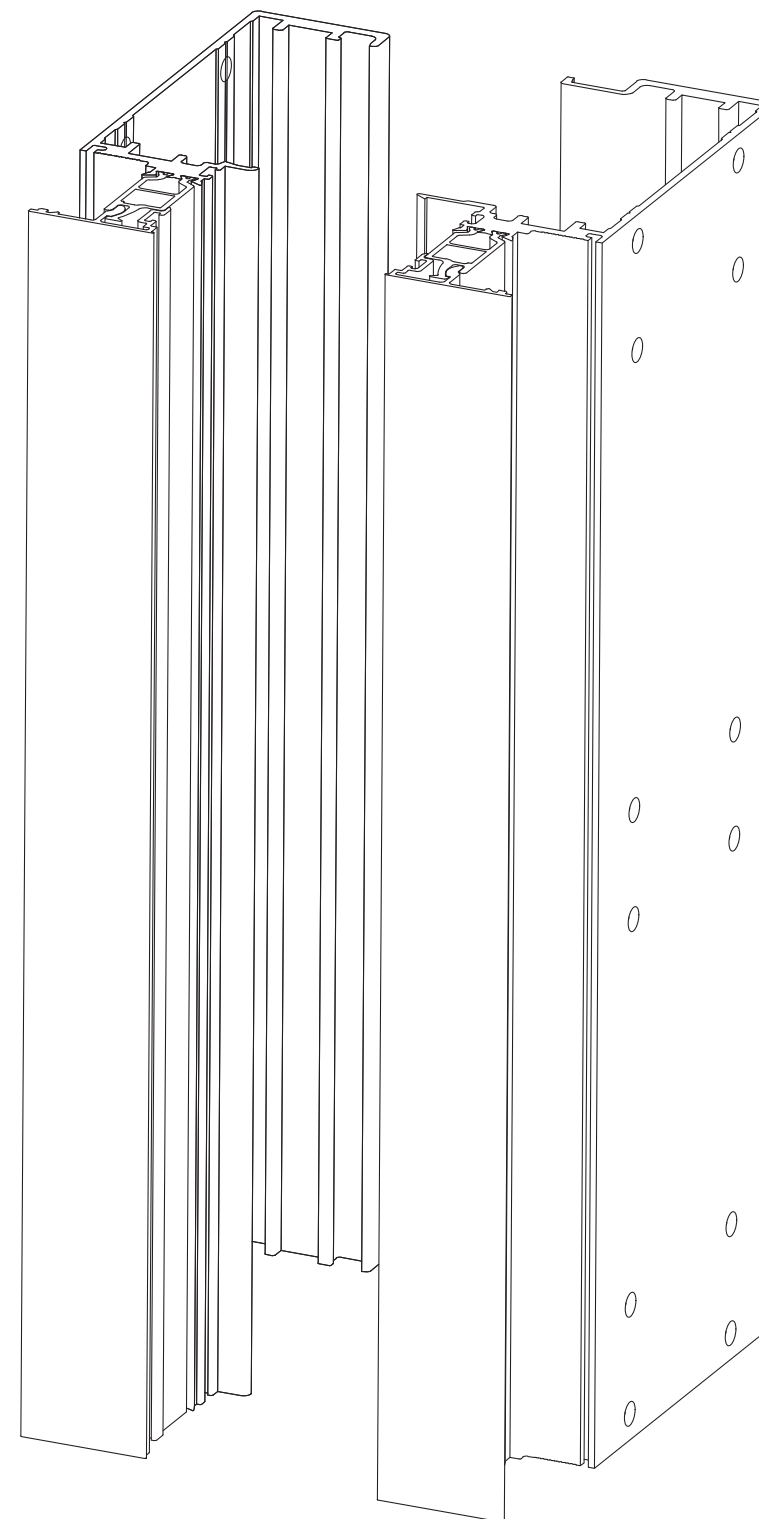
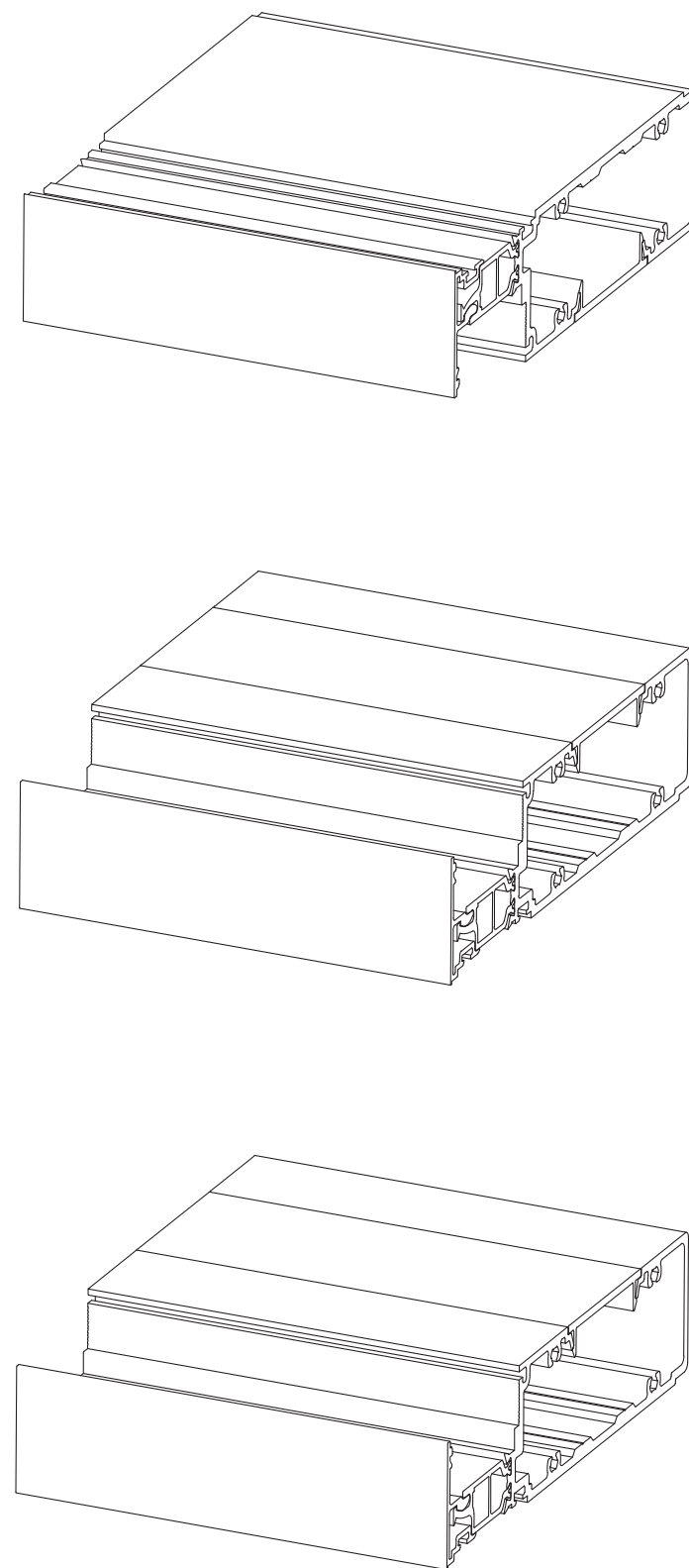
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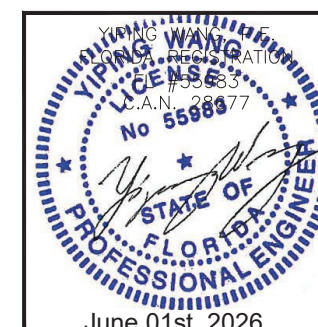
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MIRAMAR, FL 33027

www.MCYEngineering.com mcy@mcyengineering.com



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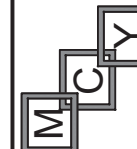
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KA4016 THERMAL BREAK WINDOW WALL SYSTEM - SMI

UNI-K Fenestration

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