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NOTE: THIS PRODUCT CAN BE COMBINED WITH OTHER FBC APPROVED ALUPROF SA'S PRODUCTS. PLEASE REFER TO ALUPROF SA'S FBC APPROVED FRENCH DOOR AND SLIDING GLASS DOOR SYSTEMS TO DETERMINE THE APPROVED SIZES AND PRESSURES. WHEN MULLED COMBINATIONS ARE USED, THE LOWER DESIGN PRESSURE FROM EACH PRODUCT WILL APPLY TO THE ENTIRE SYSTEM. FINAL APPROVAL OF ALL DESIGNS SHALL BE GRANTED BY THE GOVERNING MUNICIPALITY.	
ADDITIONAL DETAILS: FOR SPECIAL SITE CONDITION, CONTACT ALUPROF SA.	
DESIGN PRESSURES: FOR GLASS : SEE SHEET 105 FOR MULLION : SEE SHEET 106 FOR BRACKETS : SEE SHEET 113-116	
NOTE: ALLOWABLE PRESSURE CAPACITY OF THE SYSTEM SHALL BE MINIMUM OF THE DESIGN PRESSURE FOR GLASS, DESIGN PRESSURE FOR MULLION AND DESIGN PRESSURE FOR THE BRACKET.	

GENERAL NOTES

1. THIS SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE EIGHTH EDITION (2023), FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE (HVHZ) PER TAS 201/202/203.
2. GLASS CAPACITIES FOUND IN THE CHARTS HEREIN THIS CERTIFICATION ARE BASED ON ASTM E1300-16 (3 SEC. GUSTS).
3. DESIGN PRESSURES NOTED HEREIN ARE BASED ON MAXIMUM TESTED PRESSURES DIVIDED BY A 1.5 SAFETY FACTOR.
4. PRESSURES PROVIDED IN THE CERTIFICATION ARE BASED ON THE ALLOWABLE STRESS DESIGN METHOD (ASD).
5. THIS PRODUCT HAS BEEN TESTED IN ACCORDANCE WITH THE STANDARDS IN NOTE 1 OF THE GENERAL NOTES AND IS LARGE MISSILE IMPACT RESISTANT AND DOES NOT REQUIRE IMPACT RESISTANT SHUTTERS.
6. NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. WIND LOAD DURATION FACTOR Cd=1.6 HAS BEEN USED FOR WOOD ANCHOR DESIGN.
7. THE ARCHITECT/ENGINEER OF RECORD FOR THE PROJECT SUPERSTRUCTURE WITH WHICH THIS DESIGN IS USED SHALL BE RESPONSIBLE FOR THE INTEGRITY OF ALL SUPPORTING SURFACES TO THIS DESIGN WHICH SHALL BE COORDINATED BY THE PERMITTING CONTRACTOR. WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.

8. THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
9. THE CONTRACTOR IS RESPONSIBLE FOR INSULATING ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS (EXAMPLE: STEEL WITH ALUMINUM).
10. FASTENERS DESCRIBED IN THIS CERTIFICATION ARE PERMITTED TO BE SUBSTITUTE PROVIDED THE STRENGTH OF THE ALTERNATIVE ANCHOR IS EQUAL TO OR GREATER THAN THE ORIGINALLY SPECIFIED ANCHOR. FINAL APPROVAL OF SUBSTITUTED ANCHORS SHALL BE BY OTHERS.
11. FASTENERS SHALL BE CADMIUM PLATED OR OTHERWISE CORROSION-RESISTANT MATERIAL AND SHALL COMPLY WITH "SPECIFICATIONS FOR ALUMINUM STRUCTURES" SECTION J.3 OF THE CURRENT CODE BY THE ALUMINUM ASSOCIATION, INC., & ANY APPLICABLE FEDERAL, STATE, AND/OR LOCAL CODES.
12. ENGINEER'S SEAL AFFIXED HERE VALIDATES THE STRUCTURAL DESIGN AS SHOWN ONLY. THE USE OF THIS SPECIFICATION BY THE CONTRACTOR, ET AL., INDEMNIFIES AND SAVES HARMLESS THIS ENGINEER FROM ALL COSTS AND DAMAGES, INCLUDING LEGAL FEES AND APPELLATE FEES, RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, AND CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE, AND FEDERAL CODES, AND FROM DEVIATIONS OF THIS PLAN.
13. THIS PRODUCT IS APPROVED FOR FORCED ENTRY RESISTANCE AS PER ASTM F588.

14. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
15. ALTERATIONS, ADDITIONS, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.
16. SAFEGUARDS MUST BE OBSERVED (NOT IN THIS CERTIFICATION).
17. PRODUCT SHALL BE PERMANENTLY LABELED WITH A MINIMUM OF ONE LABEL PER SYSTEM CONTAINING THE FOLLOWING:

ALUPROF SA
UL. WARSZAWSKA 153, 43-300 BIELSKO-BIALA, POLAND
TAS 201/202/203
APPROVED BY FLORIDA BUILDING COMMISSION
FLORIDA PRODUCT APPROVAL NUMBER FL# 46589.1

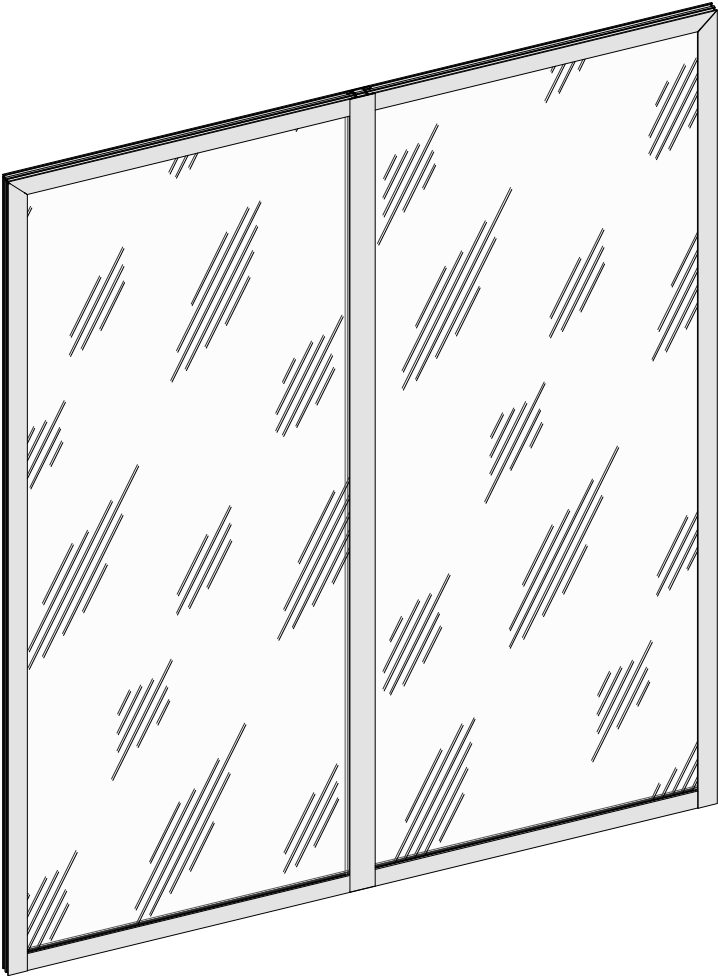
THIS SYSTEM IS APPROVED FOR INSTALLATION WHERE WATER INFILTRATION RESISTANCE IS REQUIRED.

THIS SYSTEM IS RATED FOR LARGE & SMALL MISSILE IMPACT.

ALUPROF SA

MB-45 FIXED WINDOW SYSTEM

(LARGE AND SMALL MISSILE IMPACT RATED)



MB-45 FIXED WINDOW SYSTEM

FL #46589.1



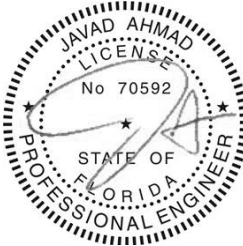
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PROJECT :			
MB 45 FIXED WINDOW SYSTEM			
CLIENT :			
ALUPROF SA			
UL. WARSZAWSKA 153, 43-300 BIELSKO-BIALA, POLAND			
REVISION			
No.	DATE	BY	DESCRIPTION
date:		08/26/2024	
scale:		N/A	
drawn by:		MK	
check by:		BS	
Drawing no.		JA-1529-23	

Eng: JAVAD AHMAD, PE
CIVIL FLA. PE # 70592 - C.A.N.34254



08/26/2024

TYPICAL ELEVATIONS

FL #46589.1



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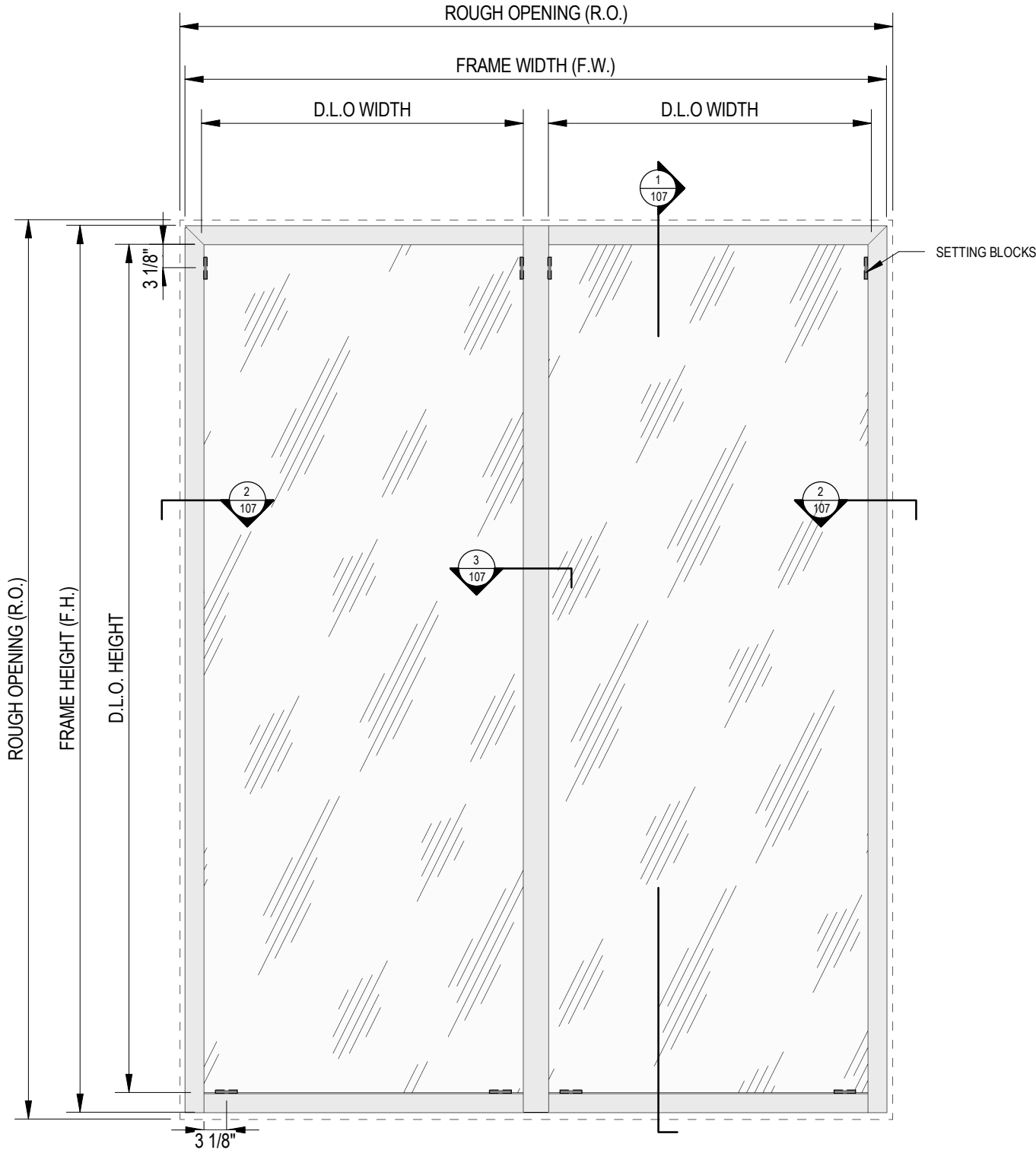
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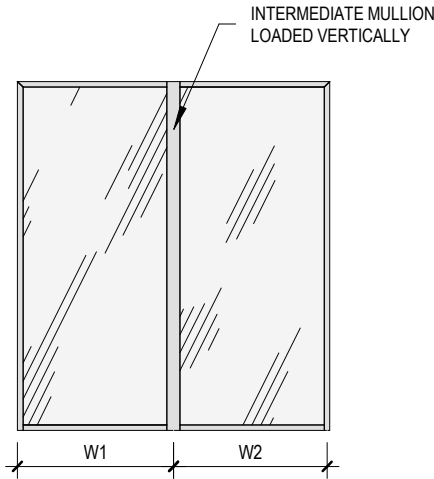
08/26/2024

102

OF 119



1
102
FIXED PANEL ELEVATION
N.T.S



MULLION TRIBUTARY CALCULATION

TRIBUTARY WIDTH (W) = $\frac{W1}{2}$
AT FRAME JAMB

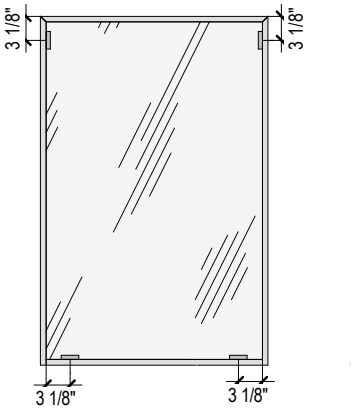
TRIBUTARY WIDTH (W) = $\frac{W1 + W2}{2}$
AT FRAME MULLION

D.L.O. CALCULATION

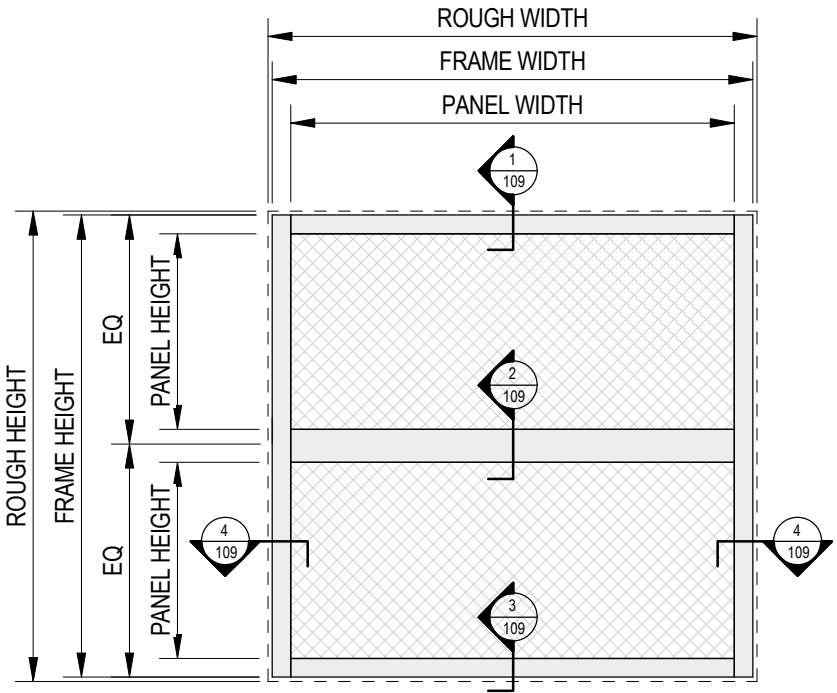
- D.L.O. WIDTH = $W1 - 2.59" \text{ (JAMB)} - \frac{3.42" \text{ (INTERMEDIATE)}}{2}$
- OR
- D.L.O. WIDTH = $W2 - 3.42"$

NOTE: FOR UNEQUAL LITES, HIGHER OF W1 OR W2 FOR DESIGN PRESSURE

- D.L.O. HEIGHT= F.H. - 5.19"



SETTING BLOCK LAYOUT



INTERMEDIATE MULLION TRIBUTARY CALCULATION

TRIBUTARY WIDTH (W) = $\frac{\text{FRAME HEIGHT}}{2}$

PANEL SIZE CALCULATION

- PANEL WIDTH = FRAME WIDTH - 4"

NOTE: FOR UNEQUAL PANELS, HIGHER OF FRAME
SIZE FOR DESIGN PRESSURE

- PANEL HEIGHT= FRAME HEIGHT - 7.38"

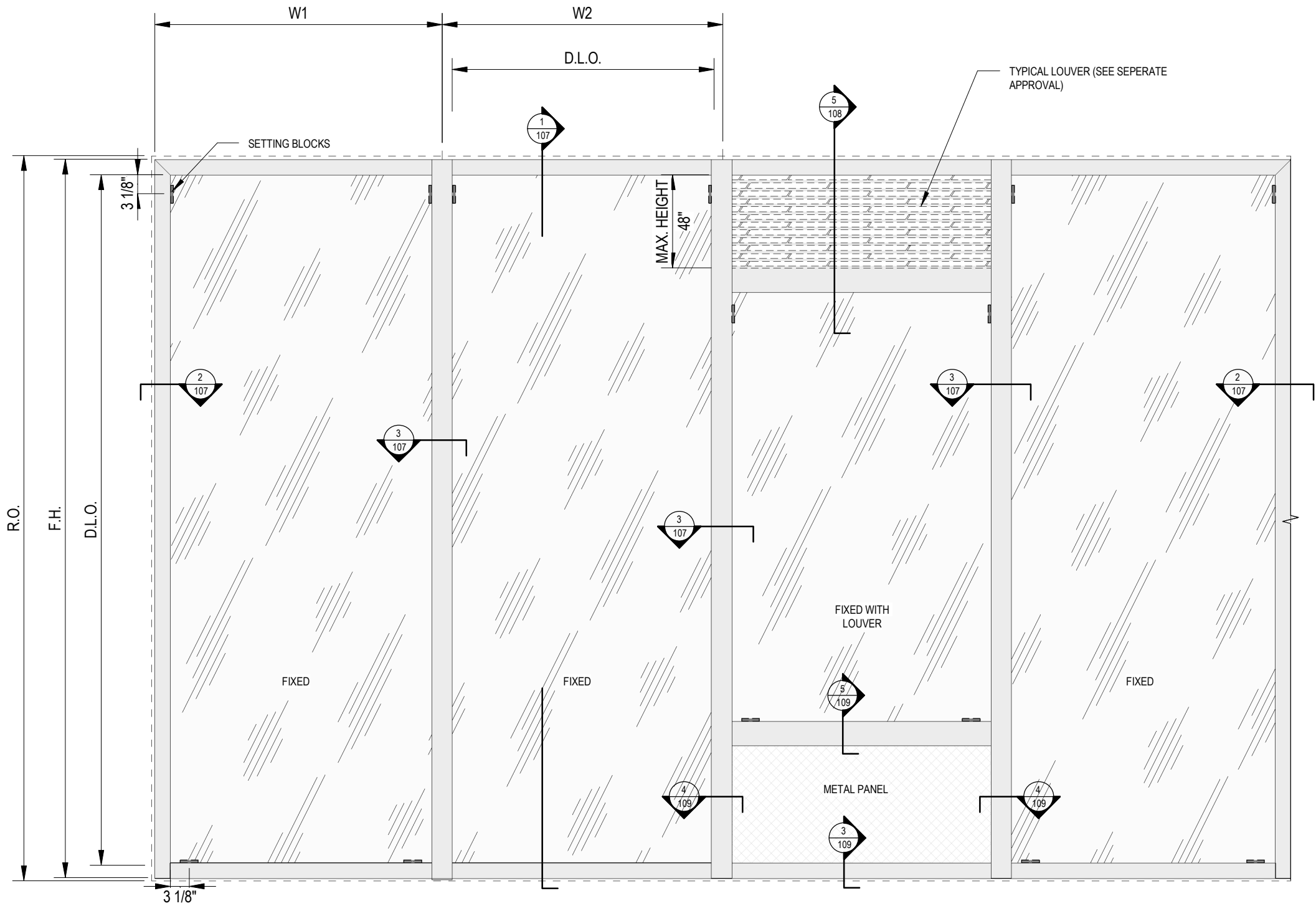
NOTE:

- THE MAXIMUM PANEL SIZE OF THE METAL PANEL INFILL CAN'T EXCEED 20" X 46" OR 46" X 20".
- THE METAL PANEL IS APPROVED FOR MAXIMUM ALLOWABLE PRESSURE OF +/- 100 PSF FOR THE MAXIMUM PANEL SIZE MENTIONED ABOVE.

2
102
FIXED PANEL ELEVATION WITH METAL PANEL
N.T.S.

TYPICAL ELEVATIONS

FL #46589.1



NOTE:
SEE SEPARATE APPROVAL FOR FLORIDA APPROVED LOUVERS FOR DESIGN PRESSURES AND ANCHORAGE DETAILS. WHEN USING A COMBINATION OF TWO OR MORE SYSTEMS, THE LOWEST SYSTEM CAPACITY SHOULD BE USED FOR DESIGN.

INSTRUCTIONS:
USE CHARTS AS FOLLOWS:

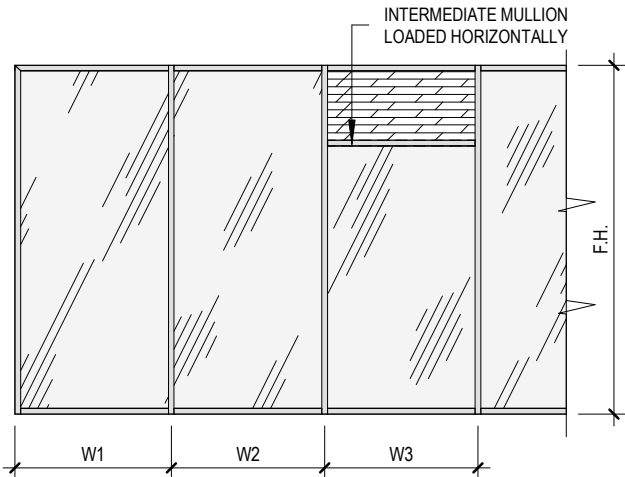
STEP 1 : DETERMINE DESIGN WIND LOAD REQUIREMENT USING APPLICABLE ASCE 7 STANDARD.

STEP 2 : CHECK GLASS TABLE ON SHEET 105 FOR FIXED PANEL GLASS CAPACITIES.

STEP 3 : CHECK MULLION TABLE ON SHEET 106 FOR THE CAPACITY OF EACH MULLION OPTIONS AND GEOMETRY.

STEP 4 : CHECK ANCHORAGE TYPE AS PER THE SUBSTRATE CONDITIONS ON SHEET 111 TO SHEET 112 FOR ANCHOR POSITION AND SPACING.

STEP 5 : FOR EACH SYSTEM, THE LOWEST VALUE FROM ALL THE CHARTS AND ANCHOR CAPACITIES SHALL GOVERN THE CAPACITY OF THE ENTIRE SYSTEM.



MULLION TRIBUTARY CALCULATION

TRIBUTARY WIDTH (W) = $\frac{W1}{2}$
AT FRAME JAMB

TRIBUTARY WIDTH (W) = $\frac{W1 + W2}{2}$
AT FRAME MULLION

D.L.O. CALCULATION

• D.L.O. WIDTH = $W1 - 2.59" \text{ (JAMB)} - \frac{3.42"}{2} \text{ (INTERMEDIATE)}$

OR

• D.L.O. WIDTH = $W2 - 3.42"$

NOTE: FOR UNEQUAL LITES, HIGHER OF W1 OR W2 FOR DESIGN PRESSURE

• D.L.O. HT.= F.H. - 5.19"

1
103
FIXED PANELS WITH LOUVER OPTION
N.T.S



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PROJECT :

MB 45 FIXED WINDOW
SYSTEM

CLIENT :

ALUPROF SA

UL. WARSZAWSKA 153, 43-300
BIELSKO-BIALA, POLAND

REVISION

No.	DATE	BY	DESCRIPTION

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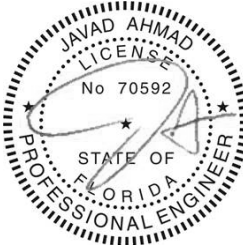
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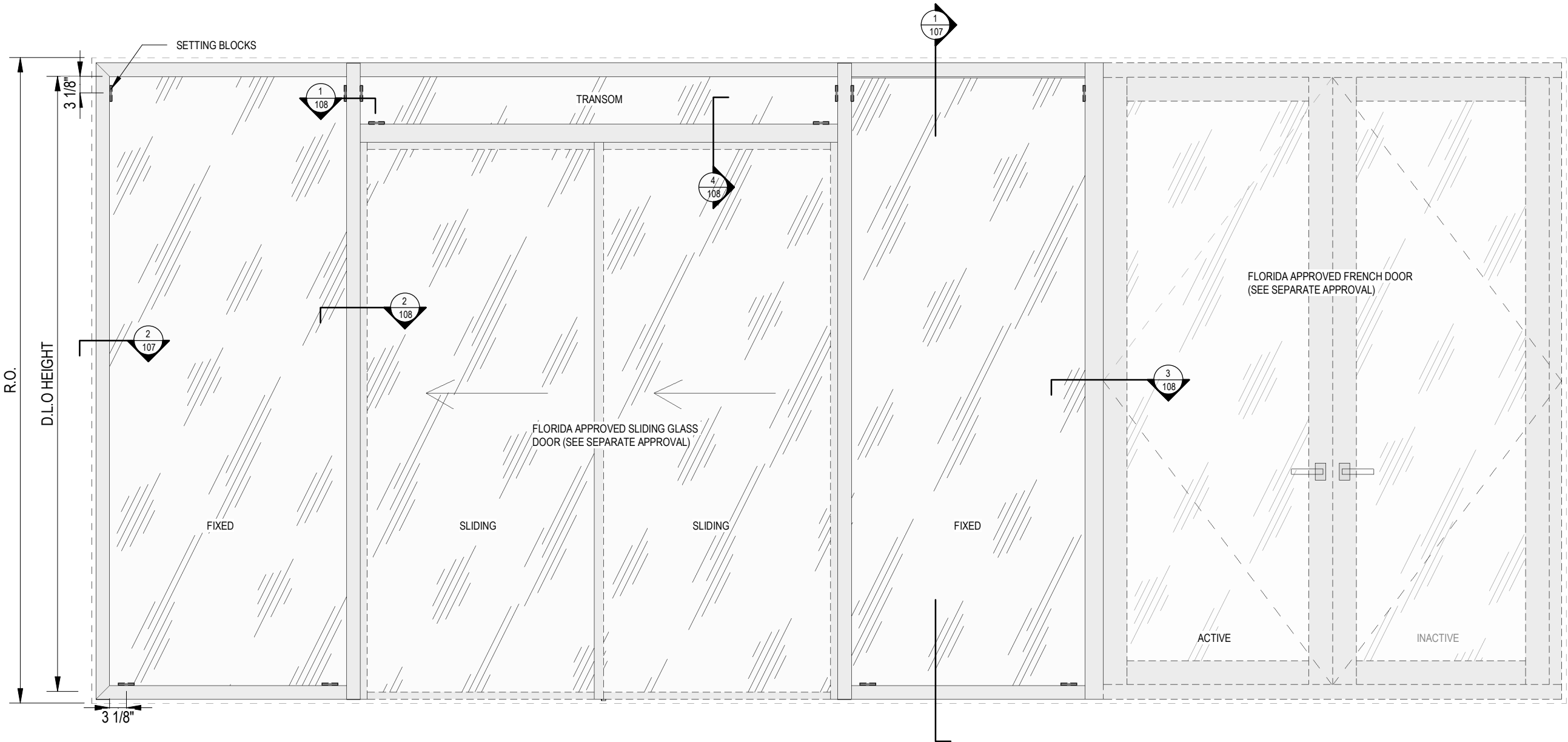
check by: BS

Drawing no. JA-1529-23

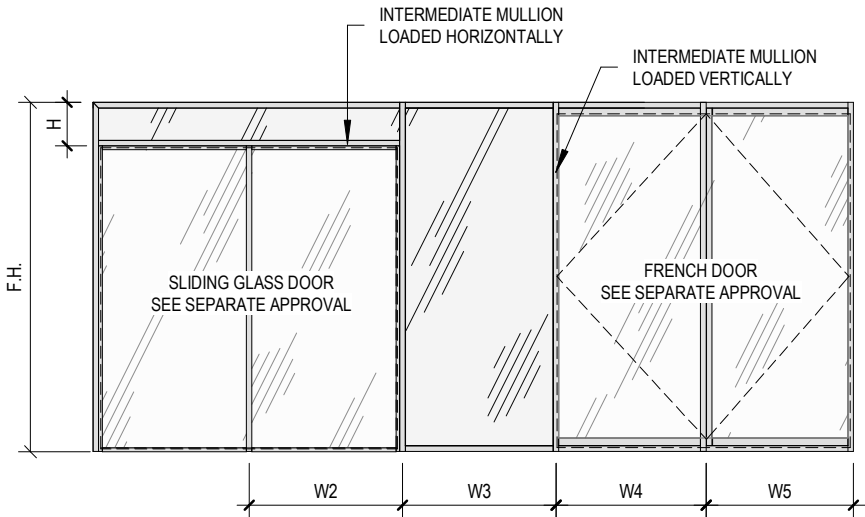
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08/26/2024



1
104 FIXED PANELS WITH SLIDING DOOR AND FRENCH DOOR
N.T.S



MULLION TRIBUTARY CALCULATION

TRIBUTARY WIDTH (W) =
AT VERTICAL INTERMEDIATE MULLION

$$\frac{W2+W3}{2} \quad \text{OR} \quad \frac{W3+W4}{2}$$

TRIBUTARY WIDTH (W) =
FOR HORIZONTALLY LOADED MULLION

$$\frac{H}{2} + \frac{F.H. - H}{2}$$

D.L.O. CALCULATION

• EDGE PANEL D.L.O. WIDTH = W - 2.59" (JAMB) - $\frac{3.42"}{2}$ (INTERMEDIATE)

OR
• INTERMEDIATE PANEL D.L.O. WIDTH = W - 3.42"

NOTE: FOR UNEQUAL LITES, HIGHER OF W1 OR W2 FOR DESIGN PRESSURE

• D.L.O. HT.= F.H. - 5.19"

NOTE:
SEE SEPARATE APPROVAL FOR FLORIDA APPROVED DOORS FOR DESIGN PRESSURES AND ANCHORAGE DETAILS. WHEN USING A COMBINATION OF TWO OR MORE SYSTEMS, THE LOWER SYSTEM CAPACITY SHOULD BE USED FOR DESIGN.



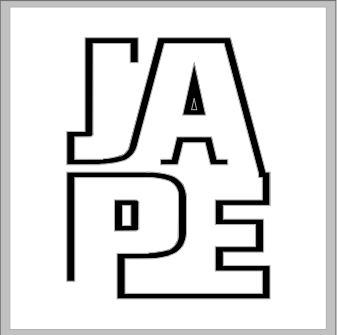
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PROJECT :			
MB 45 FIXED WINDOW SYSTEM			
CLIENT :			
ALUPROF SA			
UL. WARSZAWSKA 153, 43-300 BIELSKO-BIALA, POLAND			
REVISION			
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scale:		N/A	
drawn by:		MK	
check by:		BS	
Drawing no.		JA-1529-23	
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PROJECT :

MB 45 FIXED WINDOW
SYSTEM

CLIENT :

ALUPROF SA

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BIELSKO-BIALA, POLAND

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date: 08/26/2024

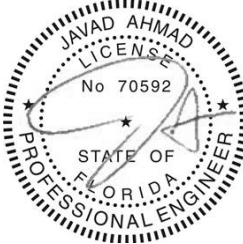
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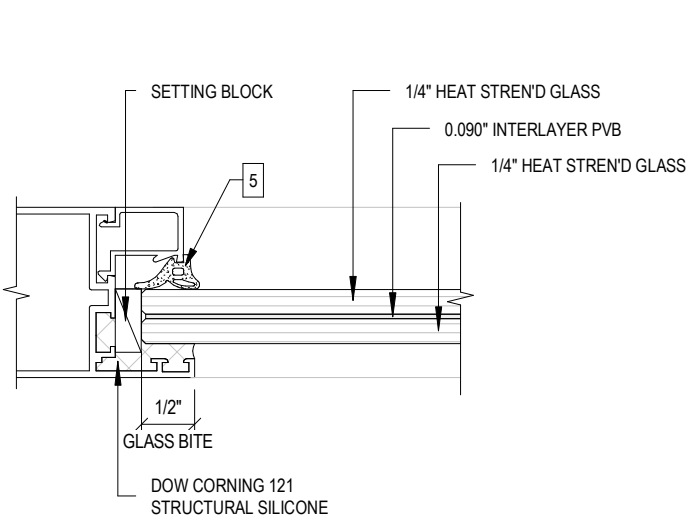
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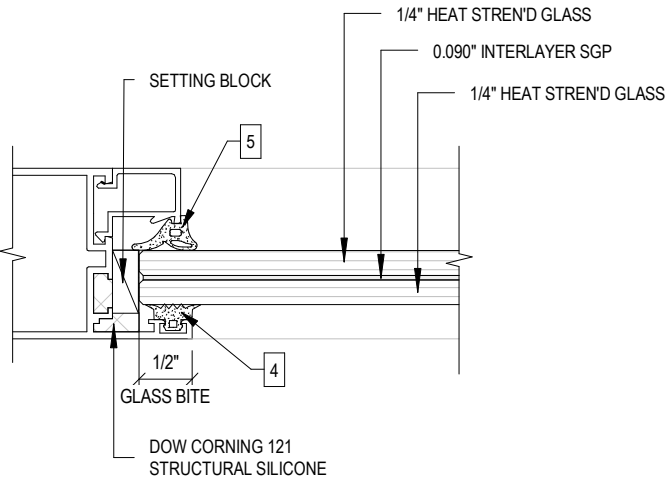


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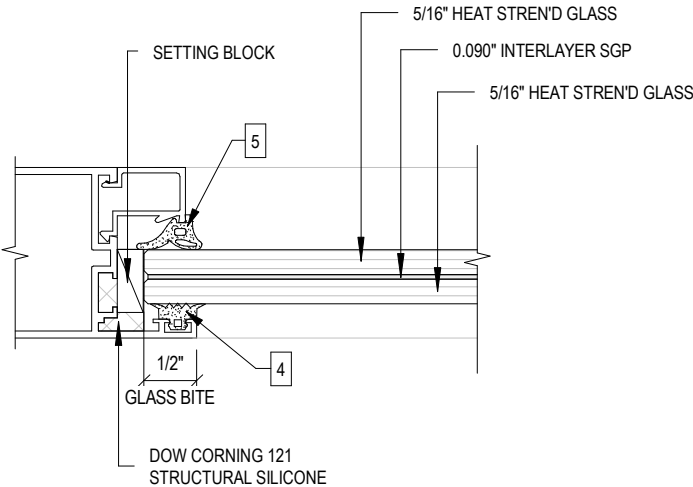
DESIGN LOAD CAPACITY OF GLASS - PSF				
D.L.O. HEIGHT (IN)	D.L.O. WIDTH (IN)	GLASS TYPES		
		GLASS "A"	GLASS "B"	GLASS "C"
36	28	+/- 60	+/- 90	+/- 110
48		+/- 60	+/- 90	+/- 110
60		+/- 60	+/- 90	+/- 110
72		+/- 60	+/- 90	+/- 110
84		+/- 60	+/- 90	+/- 110
96		+/- 60	+/- 90	+/- 110
108		+/- 60	+/- 90	+/- 110
114-3/4		+/- 60	+/- 90	+/- 110
36	32	+/- 60	+/- 90	+/- 110
48		+/- 60	+/- 90	+/- 110
60		+/- 60	+/- 90	+/- 110
72		+/- 60	+/- 90	+/- 110
84		+/- 60	+/- 90	+/- 110
96		+/- 60	+/- 90	+/- 110
108		+/- 60	+/- 90	+/- 110
114-3/4		+/- 60	+/- 90	+/- 110
36	36	+/- 60	+/- 90	+/- 110
48		+/- 60	+/- 90	+/- 110
60		+/- 60	+/- 90	+/- 110
72		+/- 60	+/- 90	+/- 110
84		+/- 60	+/- 90	+/- 110
96		+/- 60	+/- 90	+/- 110
108		+/- 60	+/- 90	+/- 110
114-3/4		+/- 60	+/- 90	+/- 110
36	40	+/- 60	+/- 90	+/- 110
48		+/- 60	+/- 90	+/- 110
60		+/- 60	+/- 90	+/- 110
72		+/- 60	+/- 90	+/- 110
84		+/- 60	+/- 90	+/- 110
96		+/- 60	+/- 90	+/- 110
108		+/- 60	+/- 90	+/- 110
114-3/4		+/- 60	+/- 90	+/- 110
36	43-5/8	+/- 60	+/- 90	+/- 110
48		+/- 60	+/- 90	+/- 110
60		+/- 60	+/- 90	+/- 110
72		+/- 60	+/- 90	+/- 110
84		+/- 60	+/- 90	+/- 110
96		+/- 60	+/- 90	+/- 110
108		+/- 60	+/- 90	+/- 110
114-3/4		+/- 60	+/- 90	+/- 110



GLASS TYPE "A"



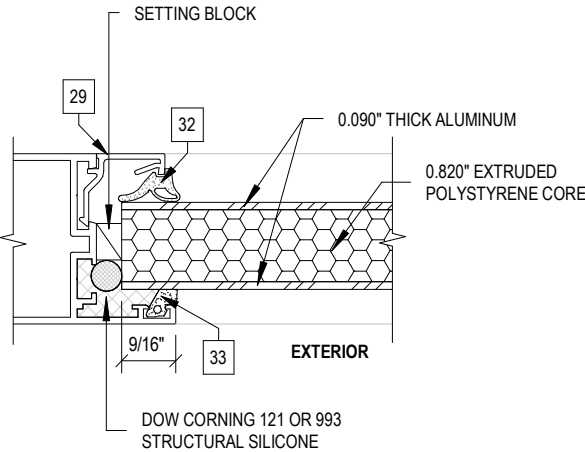
GLASS TYPE "B"



GLASS TYPE "C"

NOTE:

- SEE SETTING BLOCKS LAYOUT IN SHEET 102.
- THE MAXIMUM PANEL SIZE OF THE METAL PANEL INFILL CAN'T EXCEED 20" X 46" OR 46" X 20".
- THE METAL PANEL IS APPROVED FOR MAXIMUM ALLOWABLE PRESSURE OF +/- 100 PSF FOR THE MAXIMUM PANEL SIZE MENTIONED ABOVE.

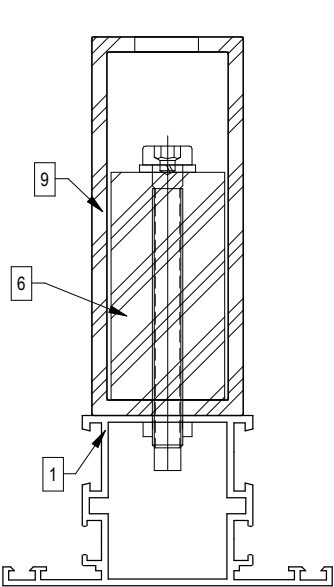


METAL PANEL INFILL

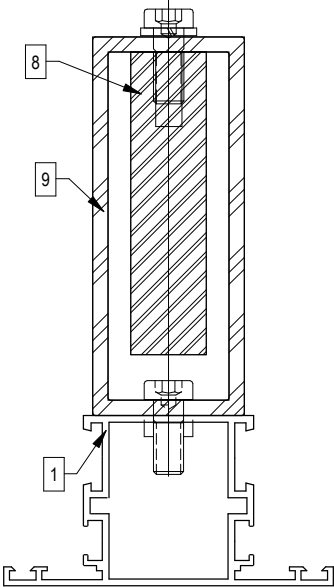
INTERMEDIATE MULLION LOAD CAPACITIES & DETAILS

FL #46589.1

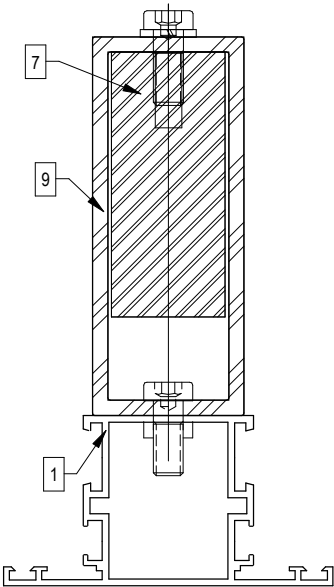
ALLOWABLE DESIGN LOAD CAPACITY OF MULLIONS- +/- PSF							
MULLION HEIGHT INCHES	TRIBUTARY WIDTH INCHES	MULLION TYPES					
		MULLION "M1"	MULLION "M2"	MULLION "M3"	MULLION "M4"	MULLION "M5"	MULLION "M6"
41	32.5	60	90	110	60	90	110
53		60	90	110	60	90	110
65		60	90	110	60	90	110
77		60	90	110	60	90	110
89		60	90	110	60	90	110
101		60	90	110	60	90	110
113		60	90	110	60	90	110
120		60	90	110	60	90	110
41	36.5	60	90	110	60	90	110
53		60	90	110	60	90	110
65		60	90	110	60	90	110
77		60	90	110	60	90	110
89		60	90	110	60	90	110
101		60	90	110	60	90	110
113		60	90	110	60	90	110
120		60	90	110	60	90	110
41	40.5	60	90	110	60	90	110
53		60	90	110	60	90	110
65		60	90	110	60	90	110
77		60	90	110	60	90	110
89		60	90	110	60	90	110
101		60	90	110	60	90	110
113		60	90	110	60	90	110
120		60	90	110	60	90	110
41	44.5	60	90	110	60	90	110
53		60	90	110	60	90	110
65		60	90	110	60	90	110
77		60	90	110	60	90	110
89		60	90	110	60	90	110
101		60	90	110	60	90	110
113		60	90	110	60	90	110
120		60	90	110	60	-	110
41	48	60	90	110	60	90	110
53		60	90	110	60	90	110
65		60	90	110	60	90	110
77		60	90	110	60	90	110
89		60	90	110	60	90	110
101		60	90	110	60	90	110
113		60	90	110	60	90	110
120		60	90	110	60	-	-
41		60	90	110	60	90	110
53		60	90	110	60	90	110
65		60	90	110	60	90	110
77		60	90	110	60	90	110
89		60	90	110	60	90	110
101		60	90	110	60	90	110
113		60	90	110	60	-	110
120		60	90	110	-	-	-



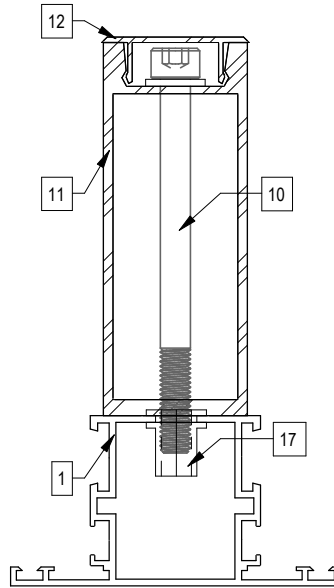
MULLION M1



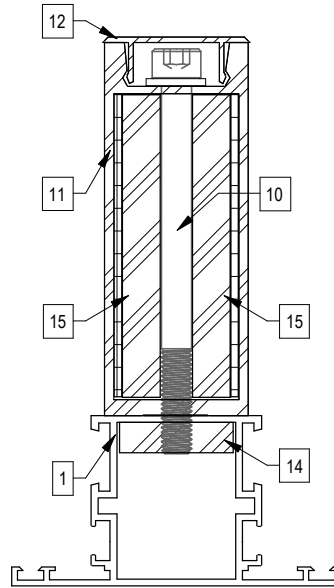
MULLION M2



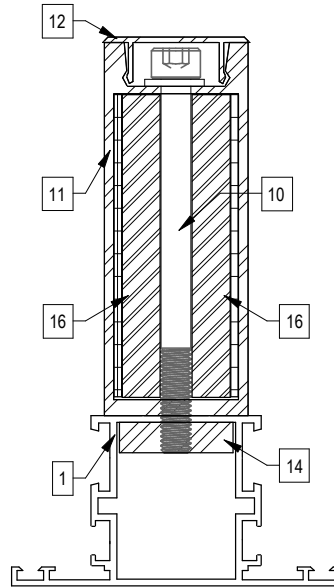
MULLION M3



MULLION M4



MULLION M5



MULLION M6



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MB 45 FIXED WINDOW
SYSTEM

CLIENT :

ALUPROF SA

UL. WARSZAWSKA 153, 43-300
BIELSKO-BIALA, POLAND

REVISION

No.	DATE	BY	DESCRIPTION

date: 08/26/2024

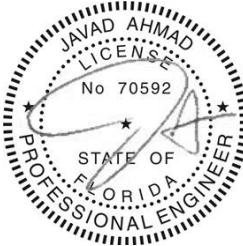
scale: N/A

drawn by: MK

check by: BS

Drawing no. JA-1529-23

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PROJECT :

MB 45 FIXED WINDOW
SYSTEM

CLIENT :

ALUPROF SA

UL. WARSZAWSKA 153, 43-300
BIELSKO-BIALA, POLAND

REVISION

No.	DATE	BY	DESCRIPTION

date: 08/26/2024

scale: N/A

drawn by: MK

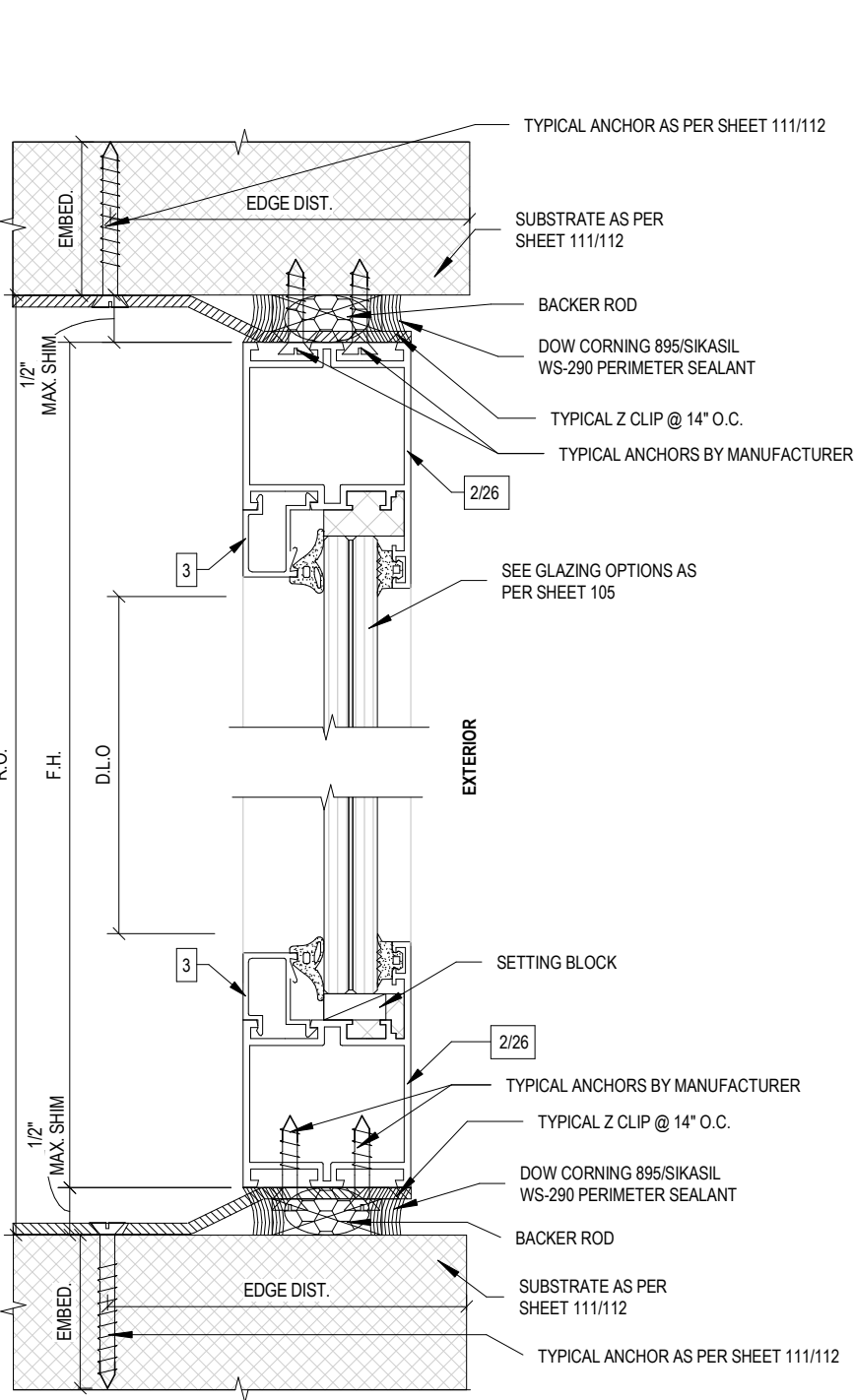
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Drawing no. JA-1529-23

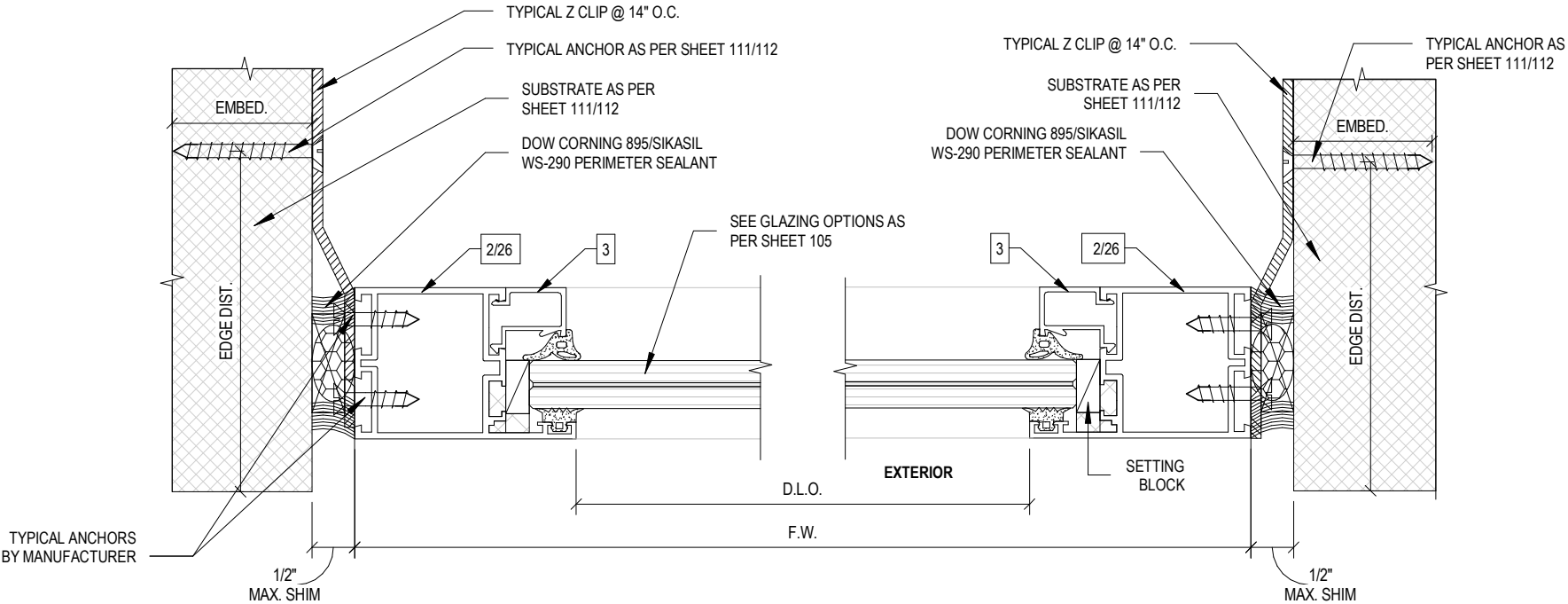
Eng: JAVAD AHMAD, PE
CIVIL FLA. PE # 70592 - C.A.N.34254



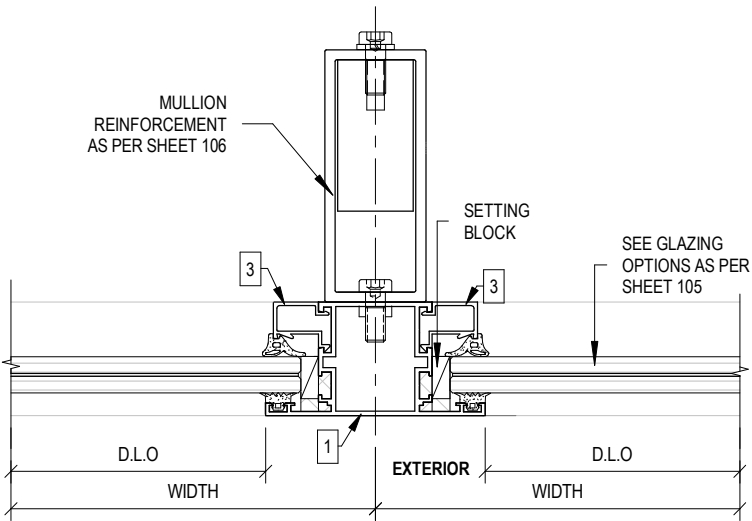
08/26/2024



1 HEAD AND SILL DETAIL
107 N.T.S



2 JAMB DETAILS 1
107 N.T.S



3 INTERMEDIATE MULLION AT FIXED PANEL 1
107 N.T.S

SECTIONAL DETAILS

FL #46589.1



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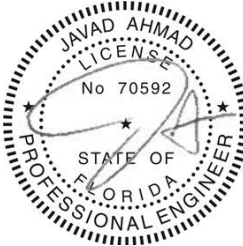
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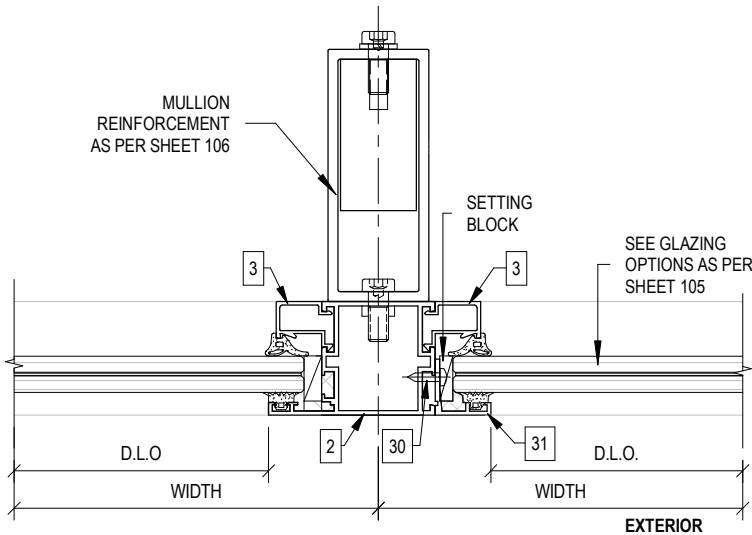
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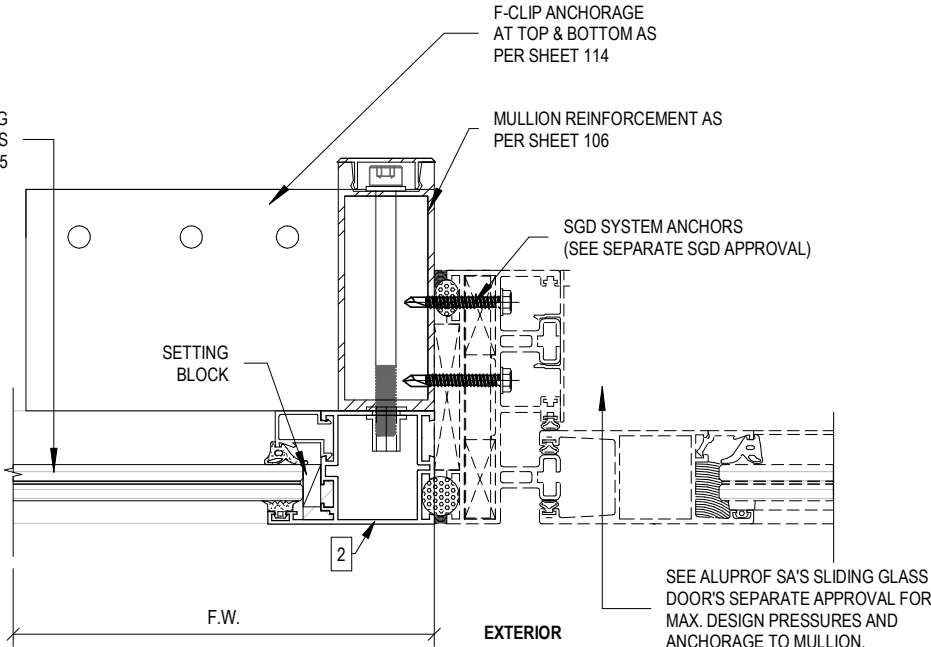
Eng: JAVAD AHMAD, PE
CIVIL FLA. PE # 70592 - C.A.N.34254



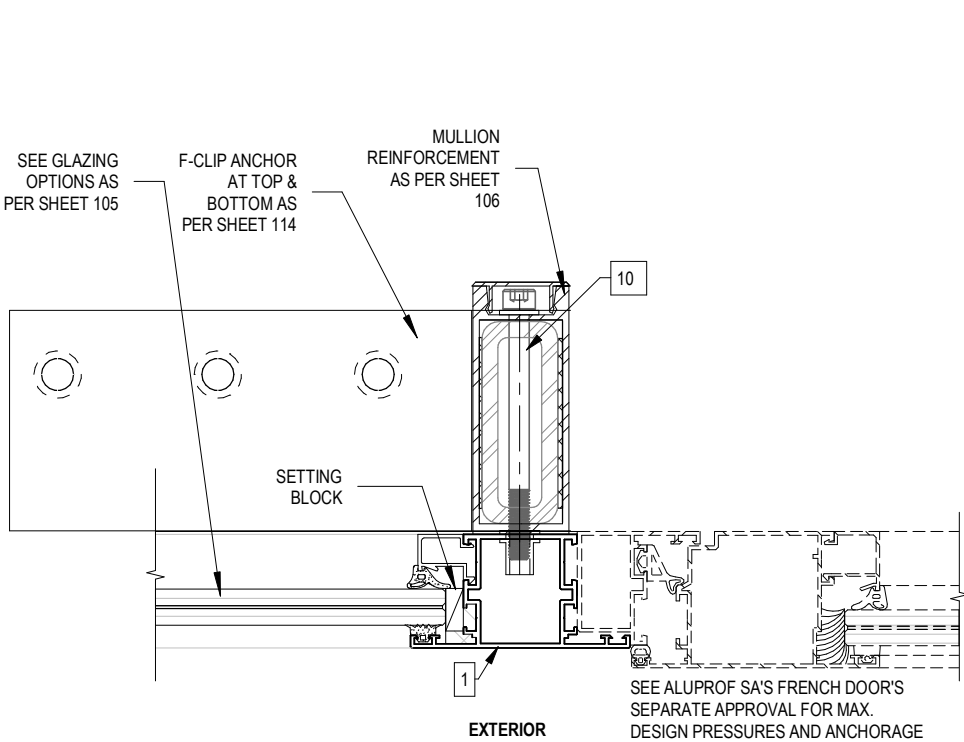
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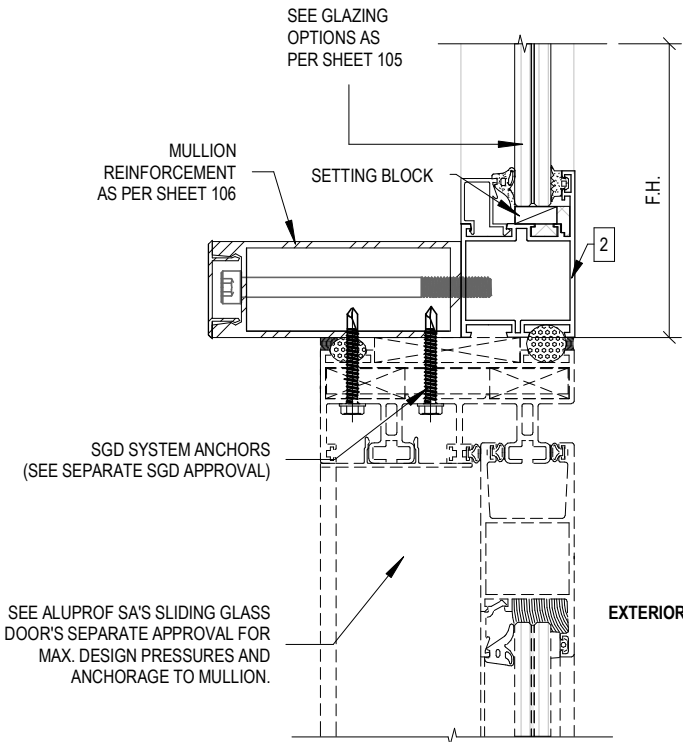
1
108
INTERMEDIATE MULLION AT FIXED PANEL 2
N.T.S



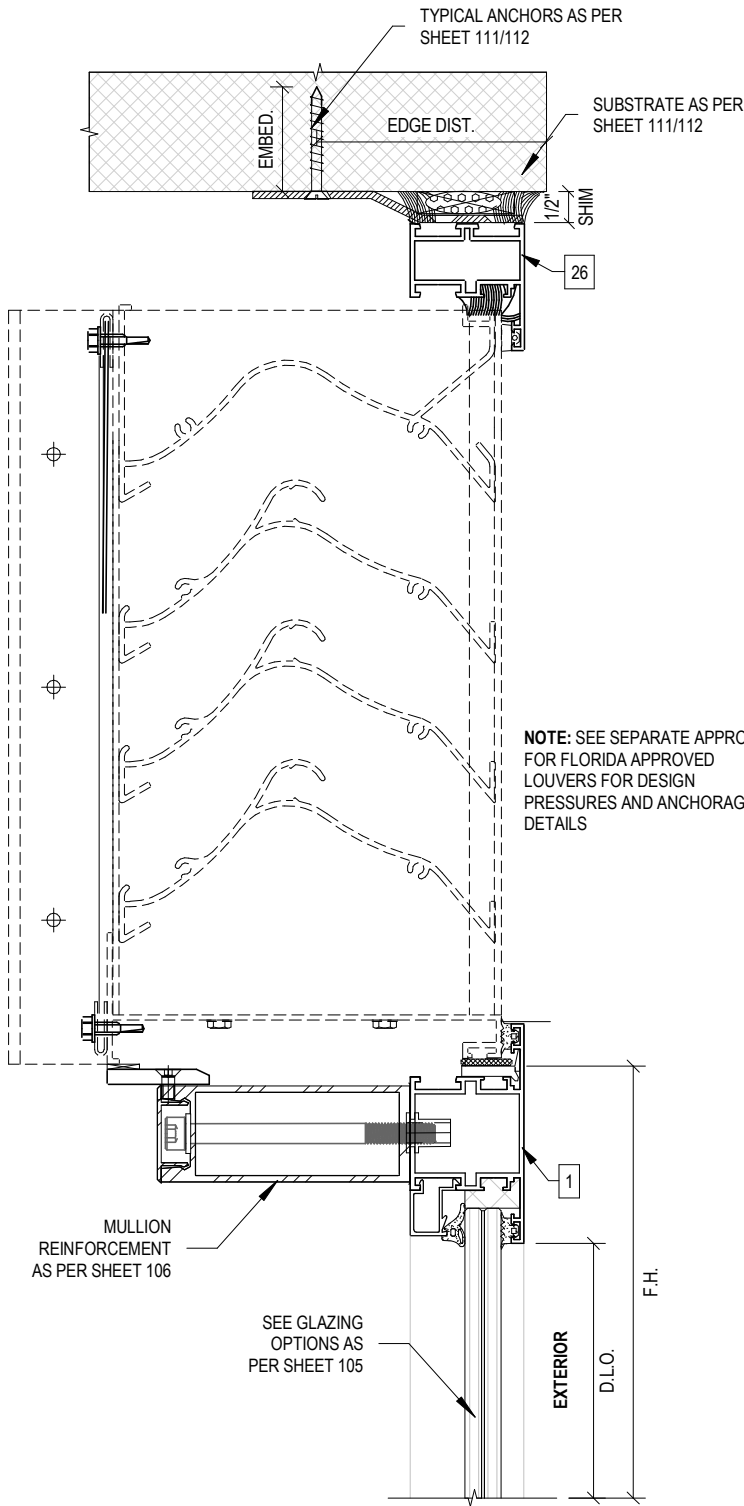
2
108
INTERMEDIATE MULLION AT SGD SYSTEM 1
N.T.S



3
108
INTERMEDIATE MULLION AT FRENCH DOOR SYSTEM
N.T.S



4
108
INTERMEDIATE MULLION AT SGD SYSTEM 2
N.T.S



5
108
INTERMEDIATE HORIZONTAL SECTION AT LOUVER
N.T.S

SECTIONAL DETAILS

FL #46589.1



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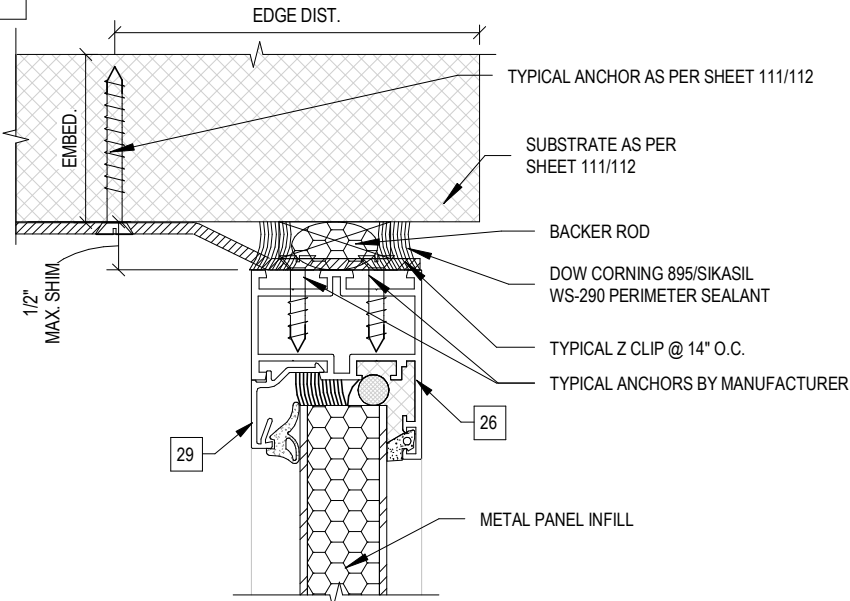


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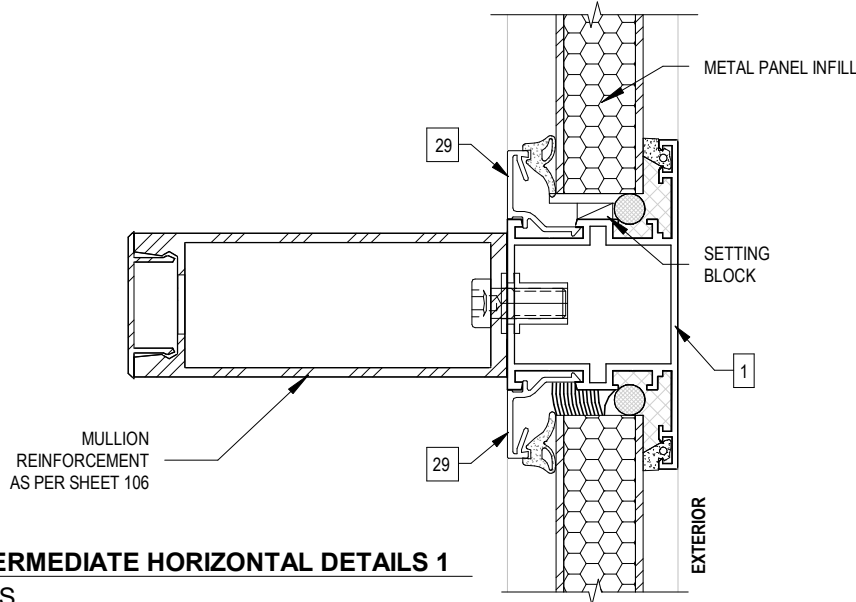
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OF 119

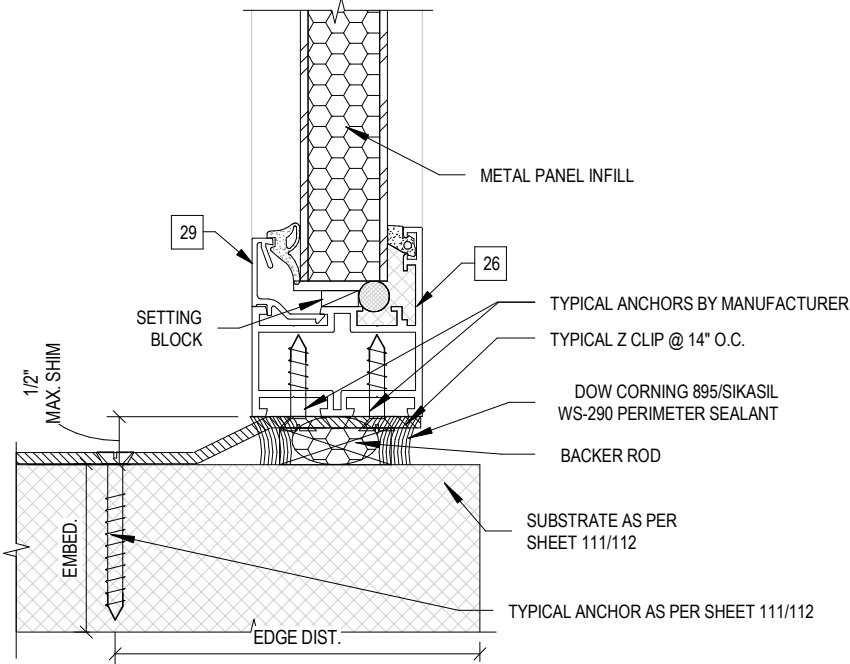
1 HEAD DETAILS
109 N.T.S.



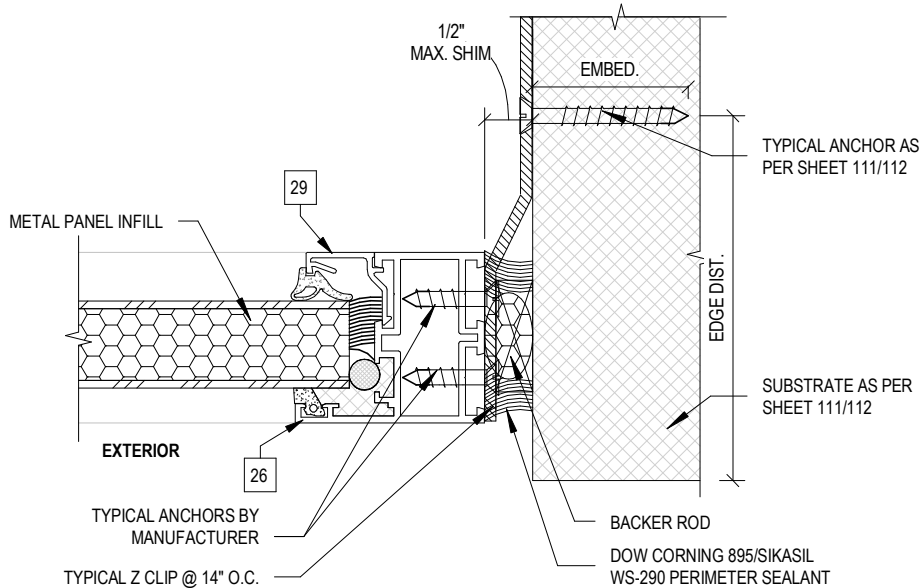
2 INTERMEDIATE HORIZONTAL DETAILS 1
109 N.T.S.



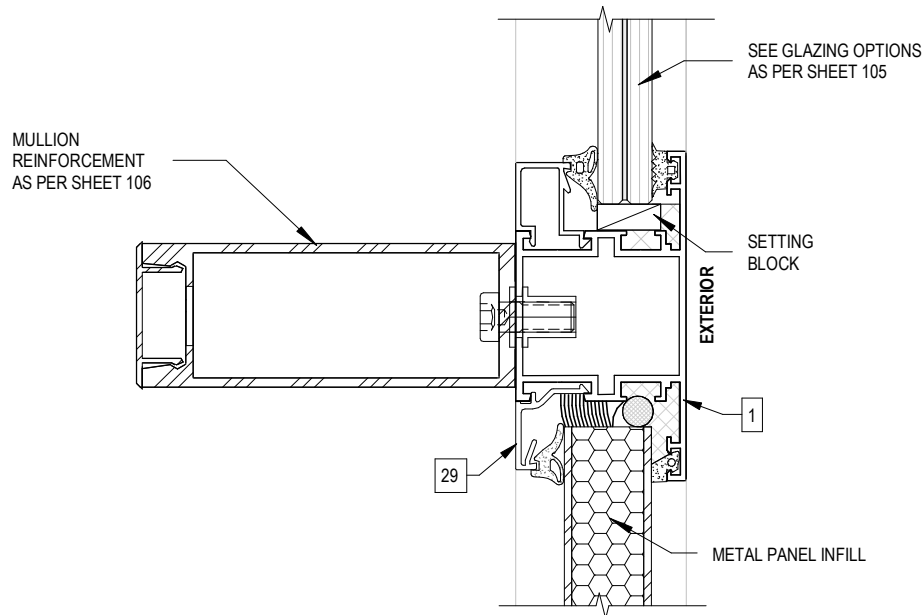
3 SILL DETAILS
109 N.T.S.



4 JAMB DETAILS 2
109 N.T.S.



5 INTERMEDIATE HORIZONTAL DETAILS 2
109 N.T.S.





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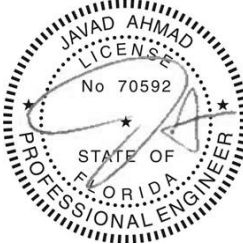
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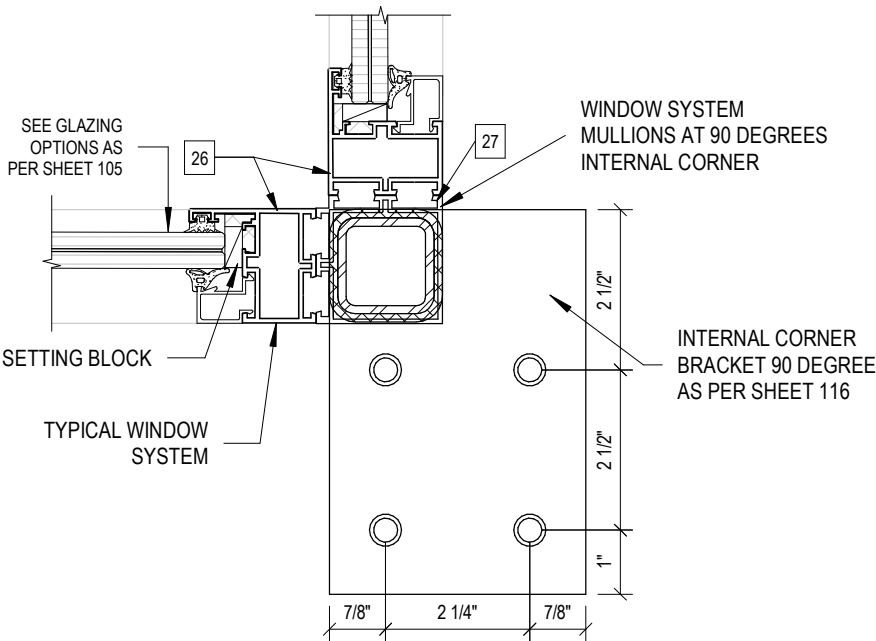
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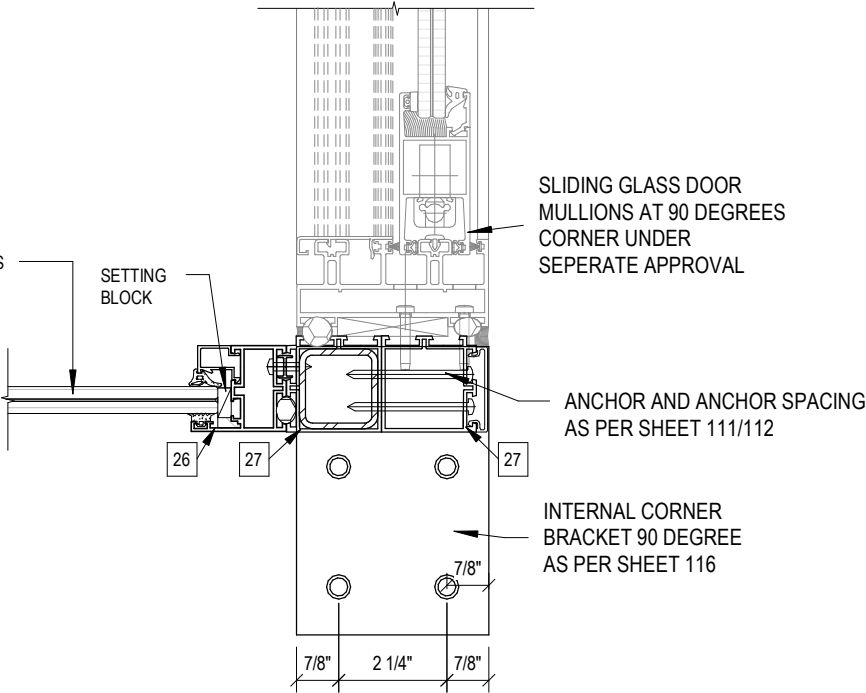
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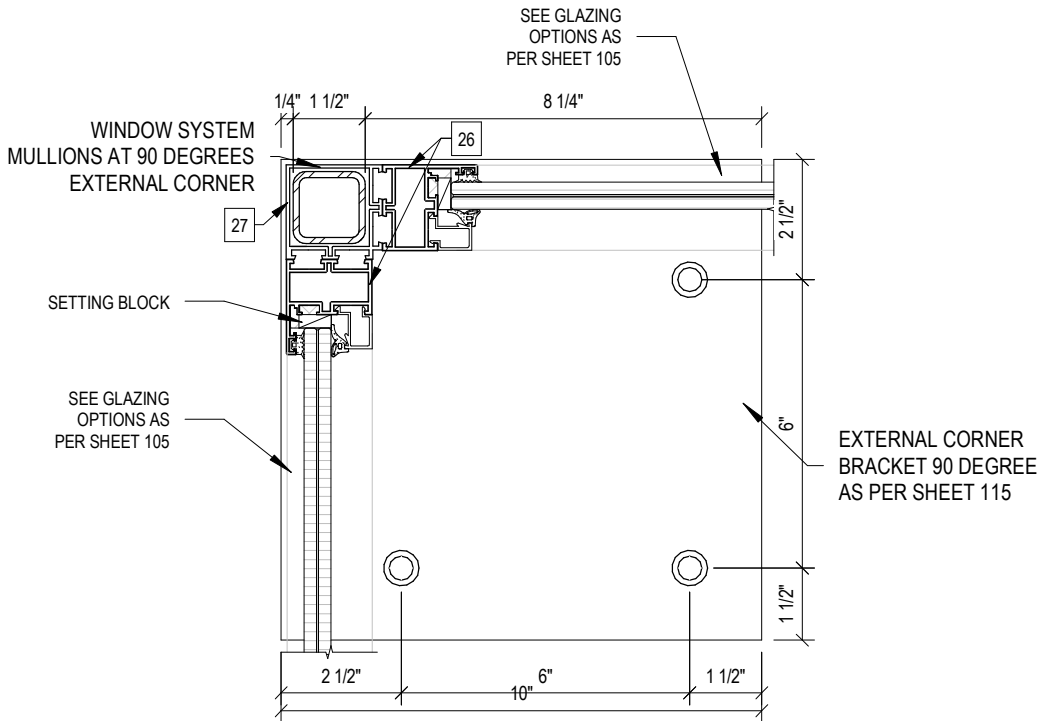
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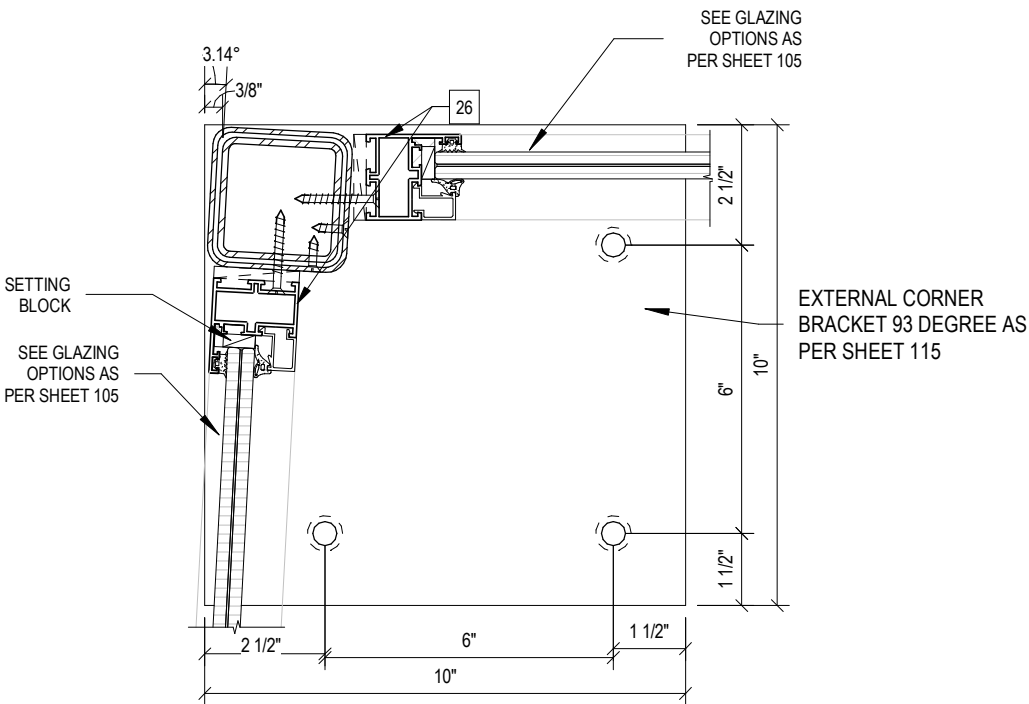
1
110 INTERNAL CORNER BRACKET DETAIL
N.T.S.



2
110 INTERNAL CORNER BRACKET DETAILS
N.T.S.



3
110 EXTERNAL CORNER BRACKET DETAIL
N.T.S.



4
110 93° CORNER BRACKET DETAIL
N.T.S.

NOTE:
THE CORNER MIGHT BE COVERED BY SOME DECORATIVE PANEL/SHEET



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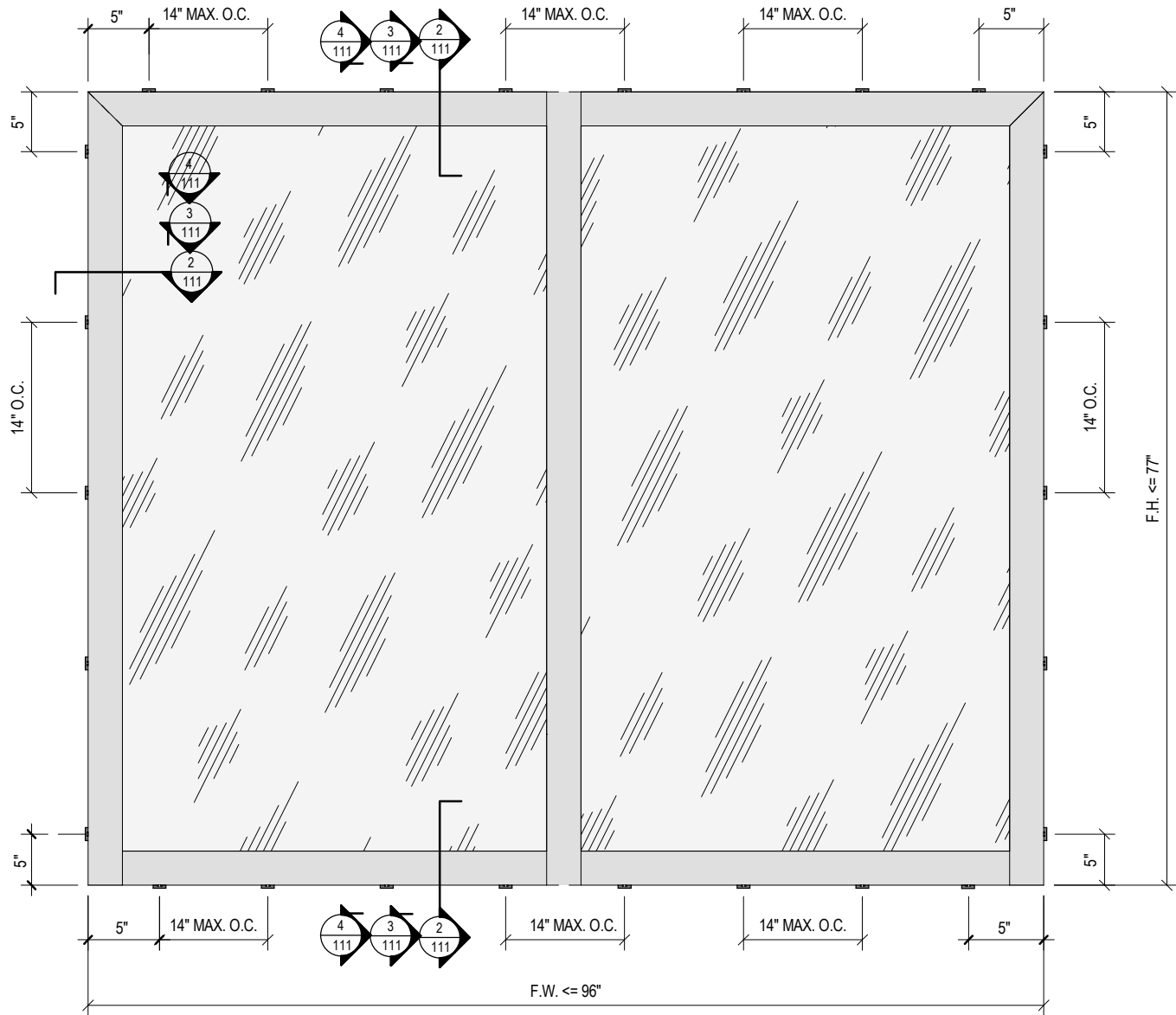
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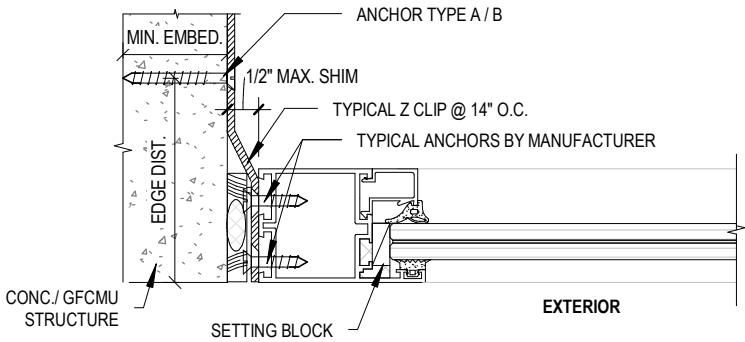
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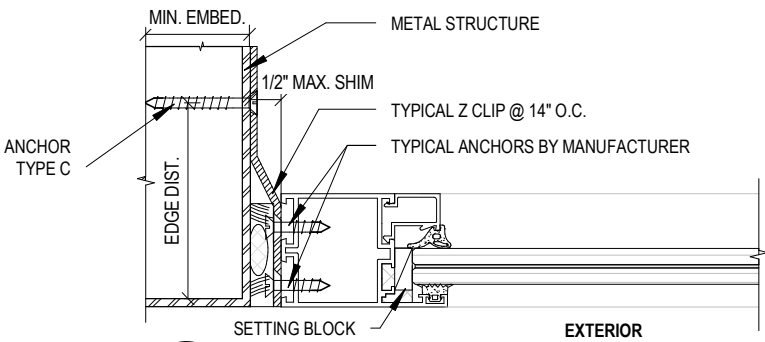
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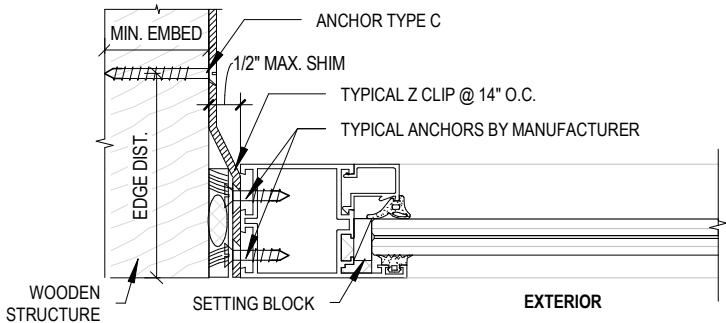
1 ANCHORAGE LAYOUT (SMALL WINDOW SYSTEM)
111 N.T.S



2 ANCHORAGE INTO CONCRETE/GFCMU
111 N.T.S



3 ANCHORAGE INTO METAL
111 N.T.S



4 ANCHORAGE INTO WOOD
111 N.T.S

TYPICAL ANCHOR TYPES
(APPLIES TO ANCHOR GOING THROUGH THE Z-CLIP):

TYPE A -1/4" DEWALT ULTRAICON (Fu = 177,000 PSI, Fy = 155,000 PSI)

- THRU 1BY WOOD INTO CONCRETE SUBSTRATE WITH 1-3/4" EMBEDMENT AND 2-1/2" MIN EDGE DISTANCE
- DIRECTLY INTO CONCRETE SUBSTRATE WITH 1-3/4" EMBEDMENT AND 2-1/2" MIN EDGE DISTANCE

TYPE B -1/4" SCREWBOLT+ (Fu = 177,000 PSI, Fy = 155,000 PSI)

- THRU 1BY WOOD INTO GROUT FILLED MASONRY WITH 2-1/2" EMBEDMENT AND 3-1/4" MIN EDGE DISTANCE
- DIRECTLY INTO GROUT FILLED MASONRY WITH 2-1/2" EMBEDMENT AND 3-1/4" MIN EDGE DISTANCE

TYPE C -1/4" "TEKS" SCREWS SMS OR SDS (GRADE 5 MIN)

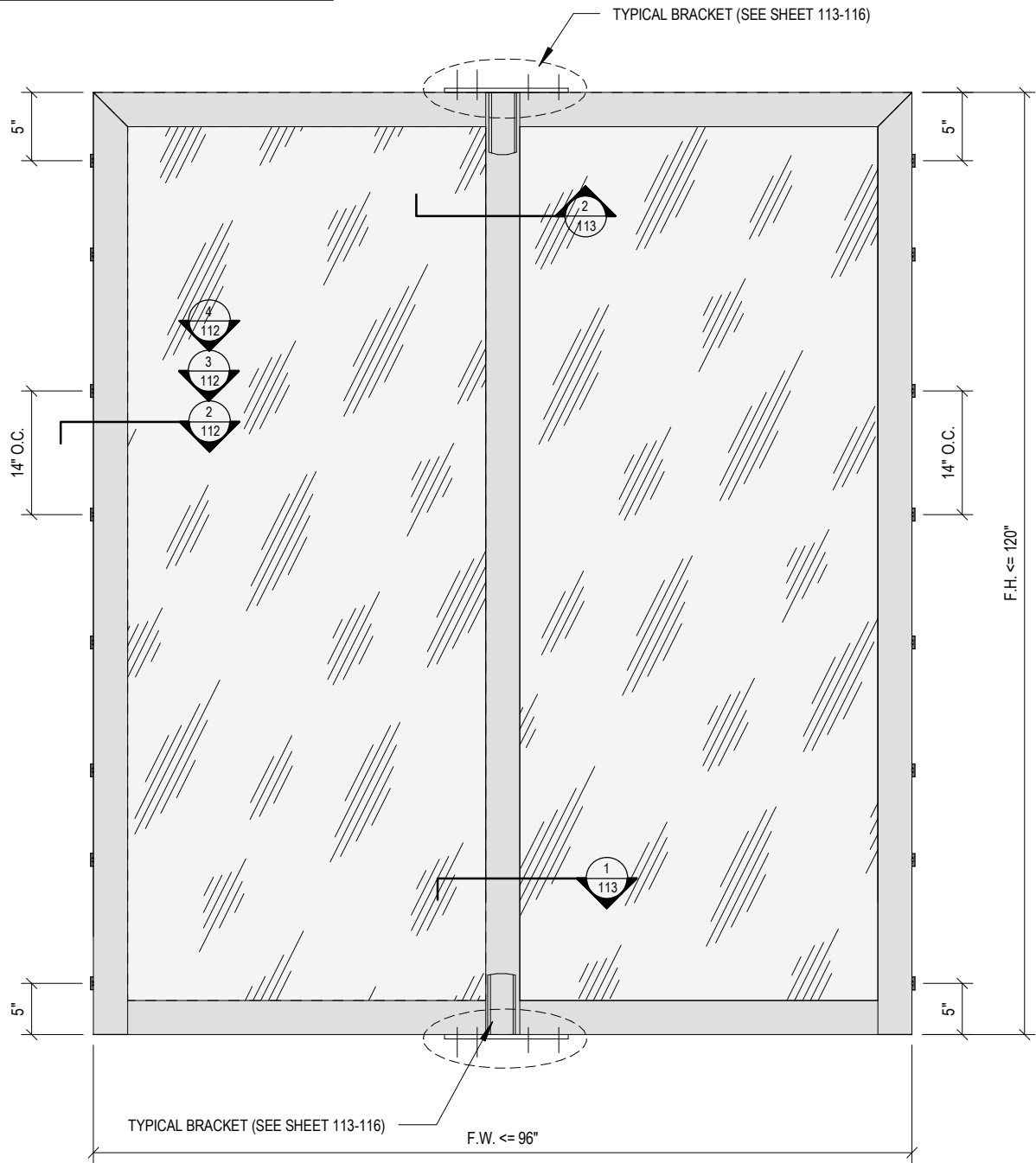
- INTO ALUMINUM / STEEL WITH 5 PITCHES PASSED THE THREAD PLANE AND 1" MIN EDGE DISTANCE
- INTO APPROVED MULLIONS WITH 5 PITCHES PASSED THE THREAD PLANE AND 3/4" MIN EDGE DISTANCE
- INTO 2BY WOOD WITH 1-1/2" MIN EMBEDMENT AND 1-1/4" MIN EDGE DISTANCE

ANCHOR / SUBSTRATE NOTES:

- WOOD AT HEAD, SILL OR JAMBS IS SOUTHERN YELLOW PINE #2 (SG=0.55 MIN.)
- CONCRETE AT HEAD, SILL OR JAMBS f'c= 3000 PSI
- HOLLOW/GROUT FILLED MASONRY UNITS AT JAMBS f'm= 2000 PSI
- STEEL (1/8" THICK, A36 MIN) AT HEAD, SILL OR JAMBS
- ALUMINUM (1/8" THICK, 6063-T6 MIN) AT HEAD, SILL OR JAMBS
- #14 316 SS SMS OR SDS IS PERMITTED TO BE SUBSTITUTED WITH TEKS SCREWS

ANCHORAGE DETAILS

FL #46589.1



1 112 ANCHORAGE LAYOUT (LARGE WINDOW SYSTEM)
N.T.S

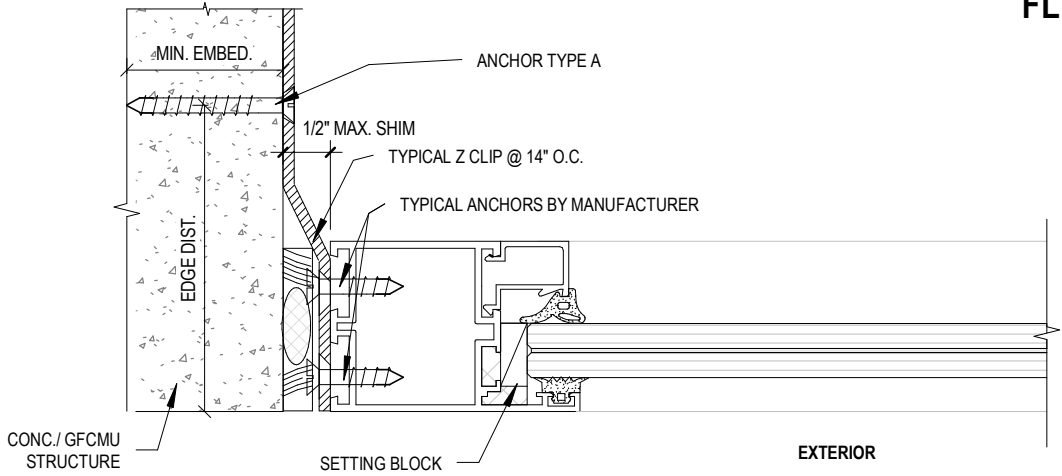
TYPICAL ANCHOR TYPES
(APPLIES TO ANCHOR GOING THROUGH THE Z-CLIP):

TYPE A -1/4" DEWALT ULTRA CON (Fu = 177,000 PSI, Fy = 155,000 PSI)

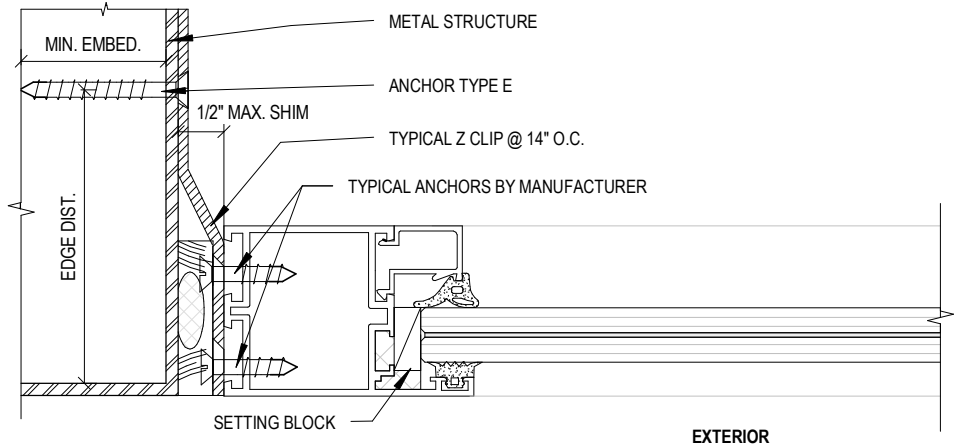
- THRU 1BY WOOD INTO CONCRETE SUBSTRATE WITH 1-3/4" EMBEDMENT AND 2-1/2" MIN EDGE DISTANCE
- DIRECTLY INTO CONCRETE SUBSTRATE WITH 1-3/4" EMBEDMENT AND 2-1/2" MIN EDGE DISTANCE

TYPE E -1/4" "TEKS" SCREWS SMS OR SDS (GRADE 5 MIN)

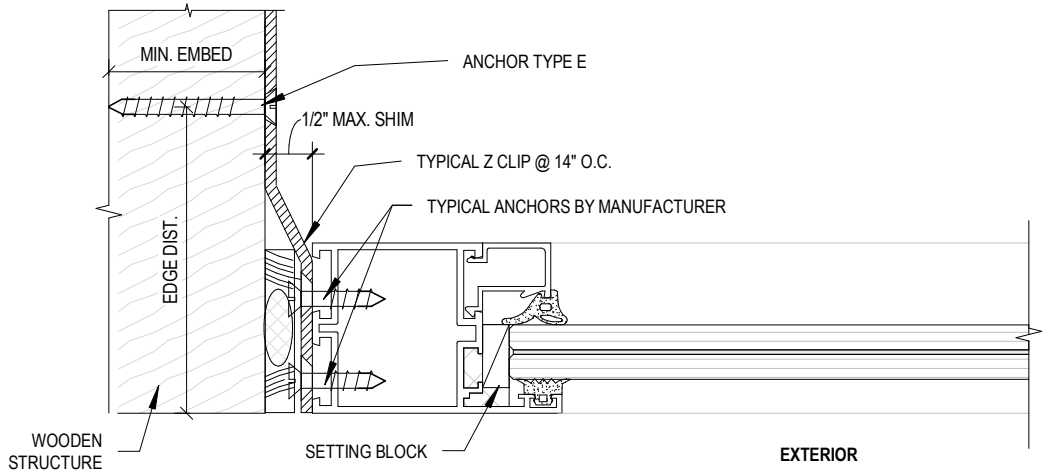
- INTO ALUMINUM / STEEL WITH 5 PITCHES PASSED THE THREAD PLANE AND 1" MIN EDGE DISTANCE
- INTO APPROVED MULLIONS WITH 5 PITCHES PASSED THE THREAD PLANE AND 3/4" MIN EDGE DISTANCE
- INTO 2BY WOOD WITH 1-1/2" MIN EMBEDMENT AND 1-1/4" MIN EDGE DISTANCE



2 112 ANCHORAGE INTO CONCRETE/GFCMU
N.T.S



3 112 ANCHORAGE INTO METAL
N.T.S



4 112 ANCHORAGE INTO WOOD
N.T.S

ANCHOR / SUBSTRATE NOTES:

- WOOD AT HEAD, SILL OR JAMBS IS SOUTHERN YELLOW PINE #2 (SG=0.55 MIN.)
- CONCRETE AT HEAD, SILL OR JAMBS f'c= 3000 PSI
- HOLLOW/GROUT FILLED MASONRY UNITS AT JAMBS f'm= 2000 PSI
- STEEL (1/8" THICK, A36 MIN) AT HEAD, SILL OR JAMBS
- ALUMINUM (1/8" THICK, 6063-T6 MIN) AT HEAD, SILL OR JAMBS
- #14 316 SS SMS OR SDS IS PERMITTED TO BE SUBSTITUTED WITH TEKS SCREWS



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REVISION

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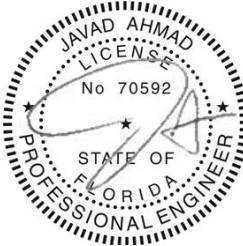
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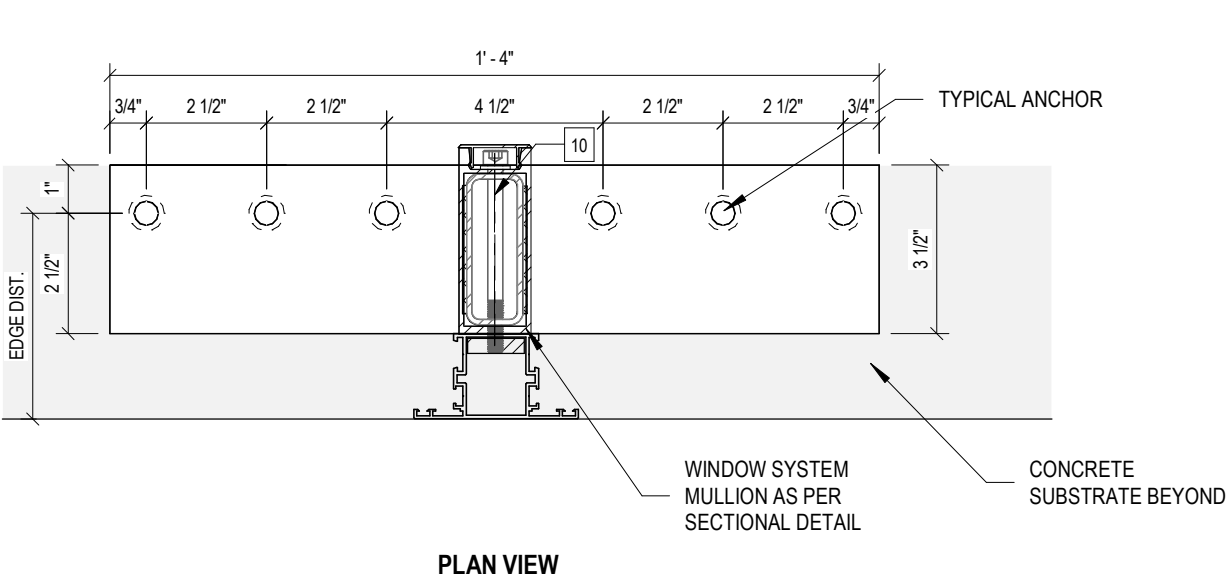
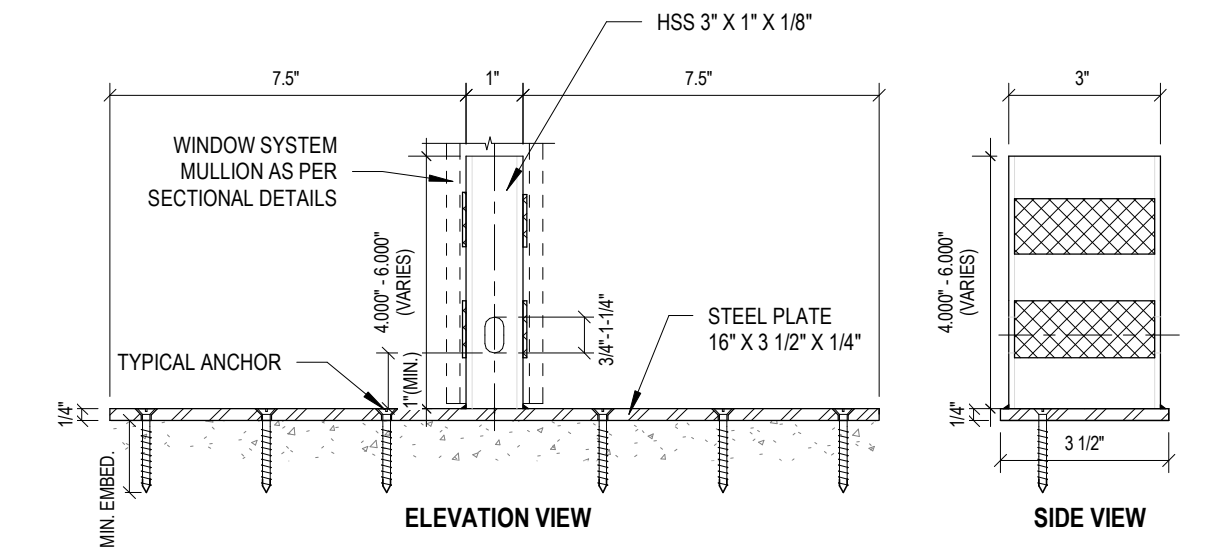
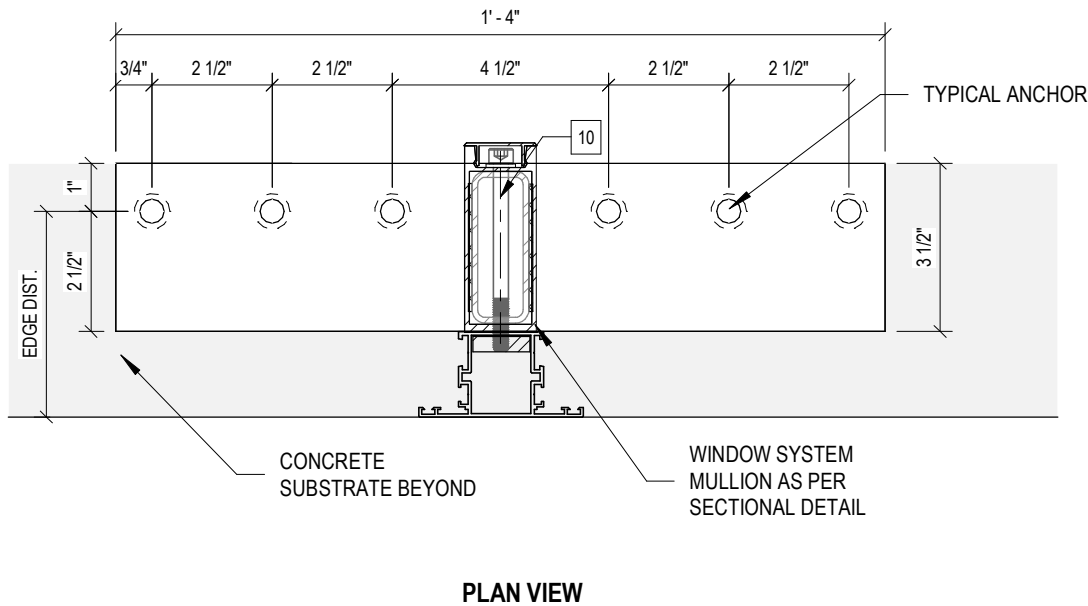
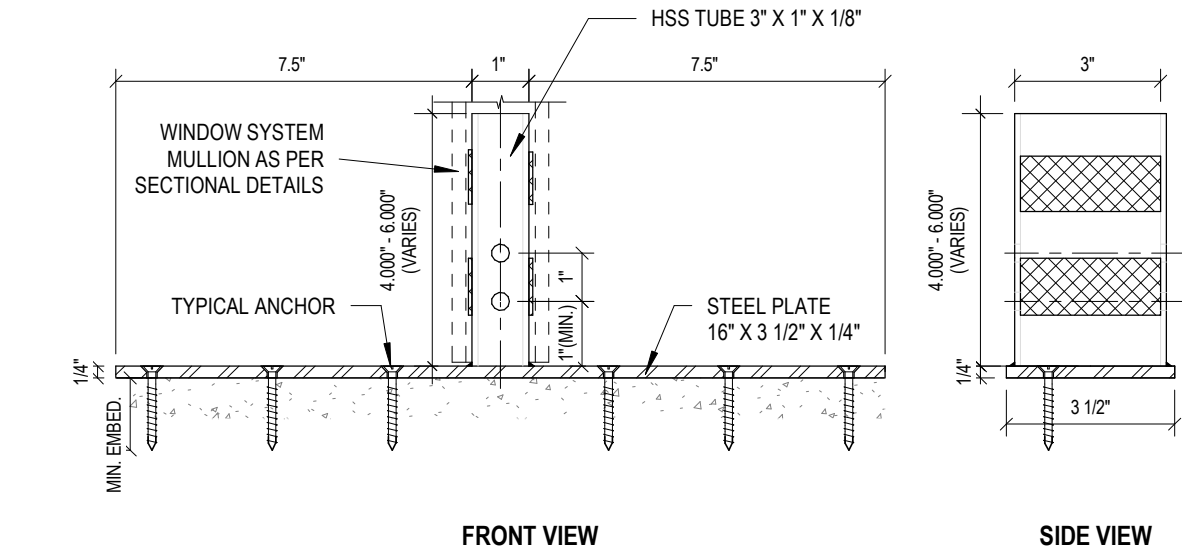
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08/26/2024

ANCHORAGE DETAILS

FL #46589.1



1
113 TYPICAL INTERMEDIATE T-BRACKET (BOTTOM)
N.T.S.

2
113 TYPICAL INTERMEDIATE T-BRACKET (TOP)
N.T.S.

ALLOWABLE DESIGN STRENGTH FOR THE T-BRACKET (PSF)				
ANCHOR TYPE	MIN. EDGE DISTANCE (IN.)	MIN. NOMINAL EMBED. (IN.)	CONCRETE STRENGTH (PSI)	
			3000	6000
3/8" HILTI KH-EZ C	4	2 1/2"	90	90
3/8" DEWALT SCREW-BOLT+ FH	4	2 1/2	90	90
		1 1/2	90	90

- NOTE:
- FOR THE BRACKETS TO BE MOUNTED AT THE TOP, TYPICAL SLOTTED HOLES SHALL BE PROVIDED IN THE TUBE WITH MIN. DIA. 3/8" FOR THE CONNECTION OF VERTICAL MULLION TO THE BRACKET.
 - LOCATION OF ASSEMBLY SCREW IS FLEXIBLE, PROVIDED THERE IS MIN. 1" END DISTANCE.
 - FOR ANCHORS BEING EMBEDDED INTO P.T. SLAB, THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING ALL THE SAFETY PRECAUTIONS TO AVOID DAMAGING TO THE EXISTING P.T. TENDONS.

MATERIAL: ASTM A500 GRADE C STEEL



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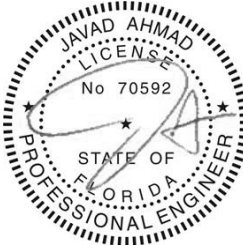
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drawn by: MK

check by: BS

Drawing no. JA-1529-23

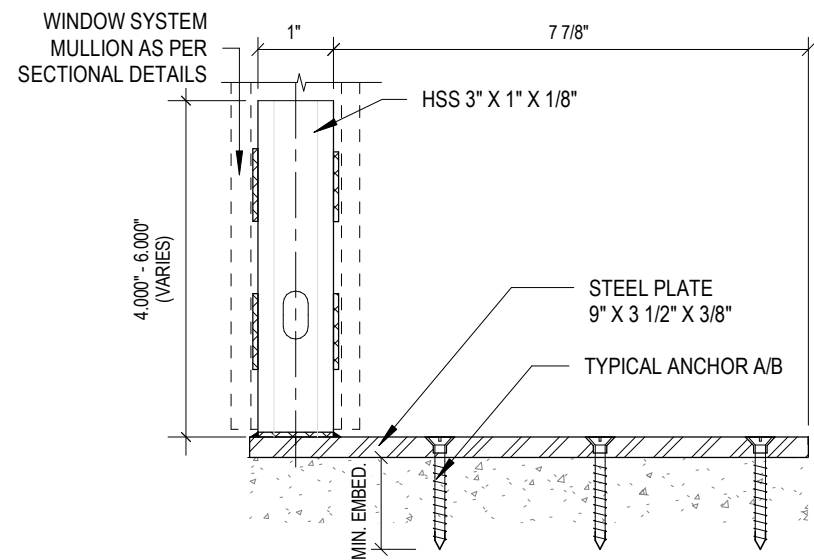
Eng: JAVAD AHMAD, PE
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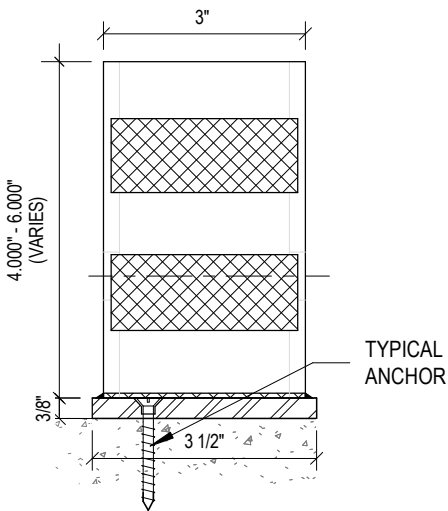
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ANCHORAGE DETAILS

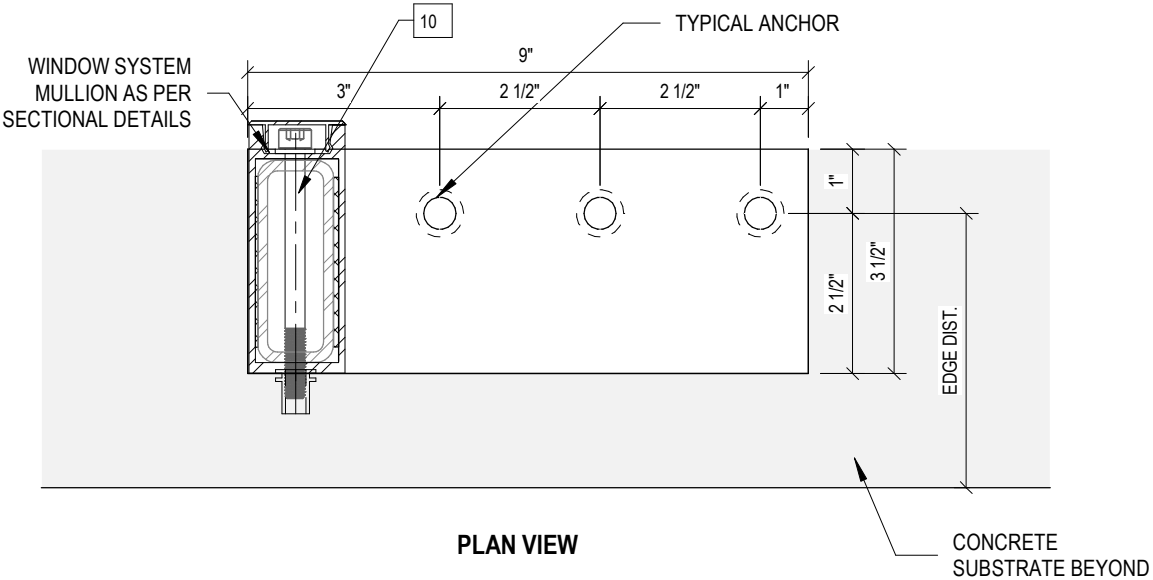
FL #46589.1



ELEVATION VIEW

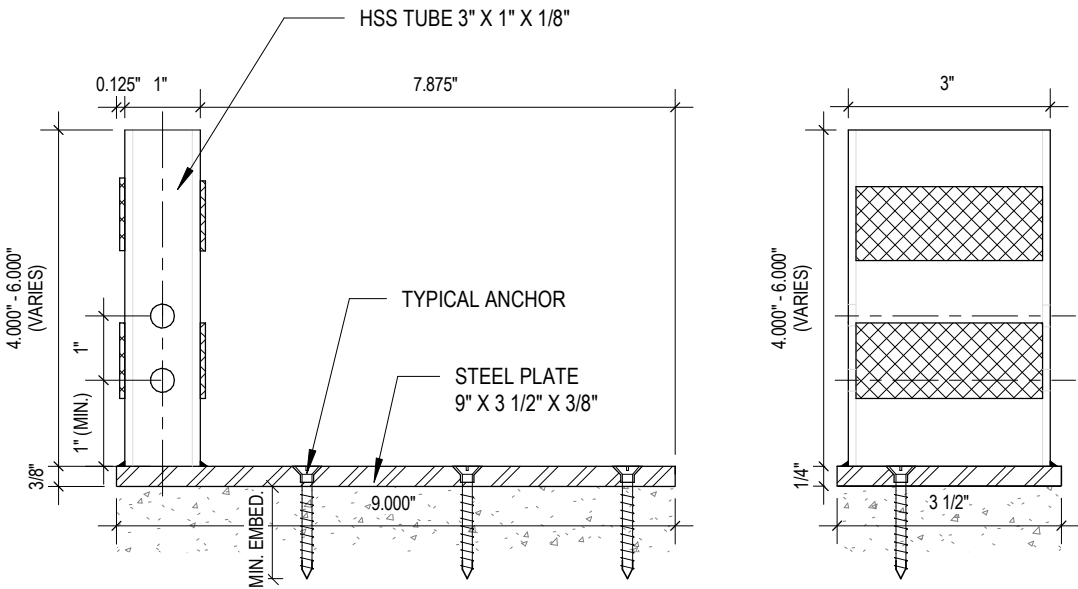


SIDE VIEW

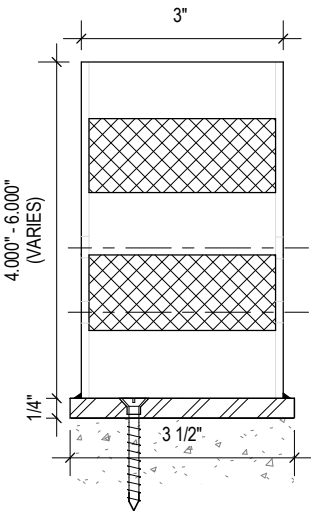


PLAN VIEW

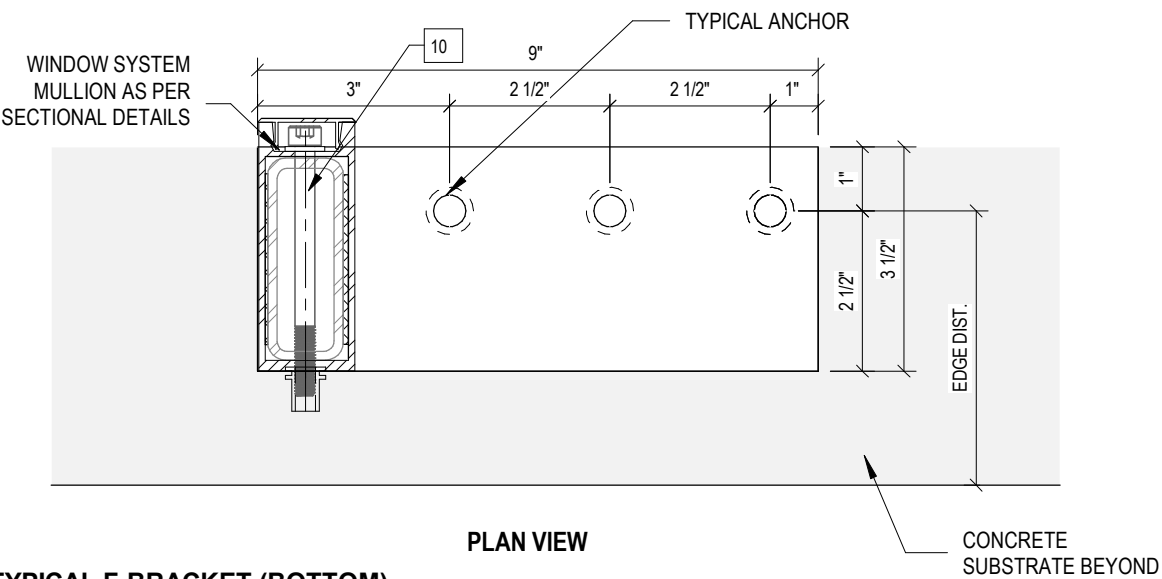
1
114
TYPICAL F-BRACKET (TOP)
N.T.S.



ELEVATION VIEW



SIDE VIEW



PLAN VIEW

2
114
TYPICAL F-BRACKET (BOTTOM)
N.T.S.

ALLOWABLE DESIGN STRENGTH FOR THE F-BRACKET (PSF)

ANCHOR TYPE	MIN. EDGE DISTANCE (IN.)	MIN. NOMINAL EMBED. (IN.)	CONCRETE STRENGTH (PSI)	
			3000	6000
3/8" HILTI KH-EZ C	4 1/2	3 1/4	75	86
3/8" DEWALT SCREW-BOLT+ FH	4	2 1/2	75	—
		1 1/2	—	86

NOTE:

- FOR THE BRACKETS TO BE MOUNTED AT THE TOP, TYPICAL SLOTTED HOLES SHALL BE PROVIDED IN THE TUBE WITH MIN. DIA. 3/8" FOR THE CONNECTION OF VERTICAL MULLION TO THE BRACKET.
- LOCATION OF ASSEMBLY SCREW IS FLEXIBLE, PROVIDED THERE IS MIN. 1" END DISTANCE.
- FOR ANCHORS BEING EMBEDDED INTO P.T. SLAB, THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING ALL THE SAFETY PRECAUTIONS TO AVOID DAMAGING TO THE EXISTING P.T. TENDONS.

MATERIAL: ASTM A500 GRADE C STEEL



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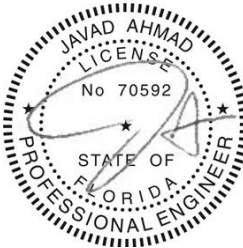
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check by: BS

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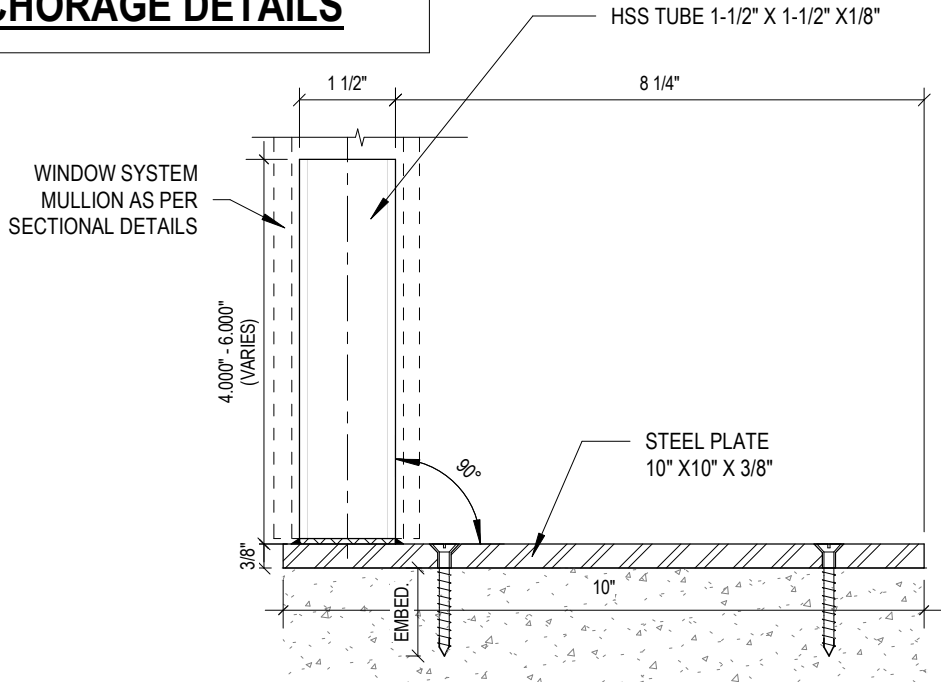
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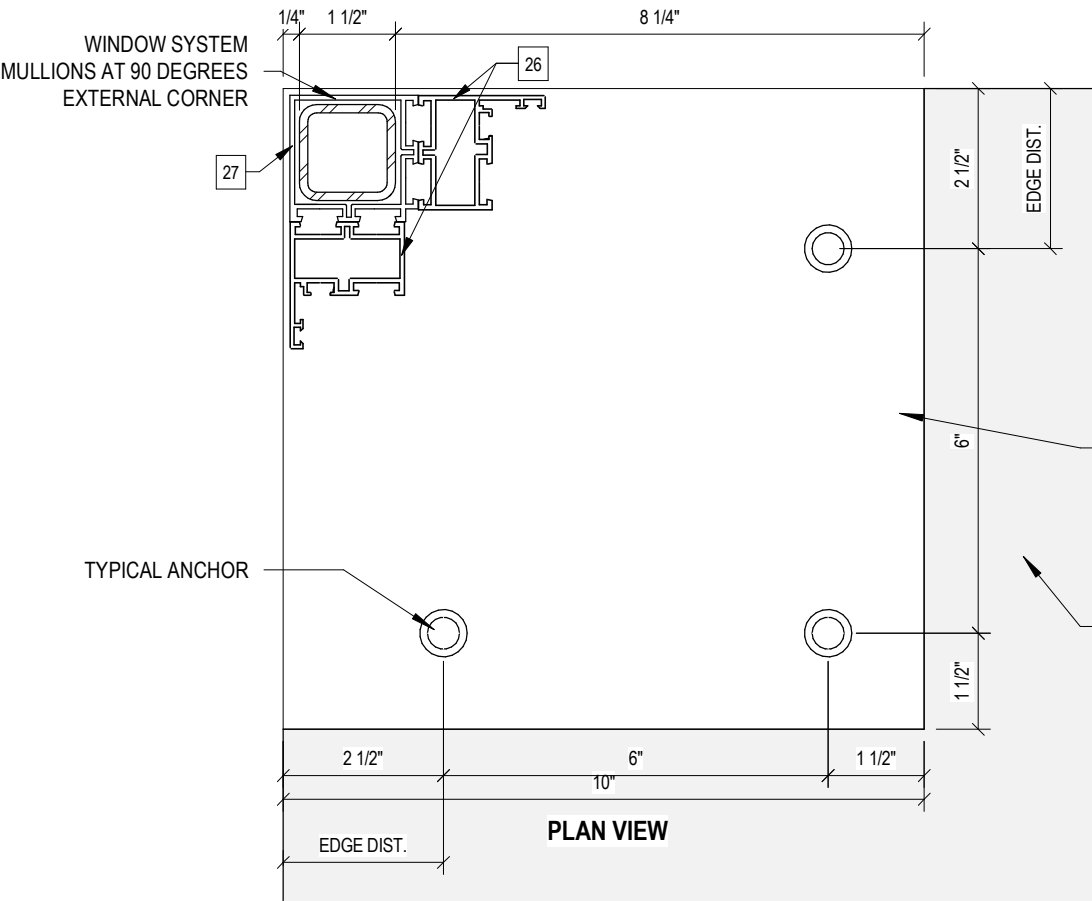
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ANCHORAGE DETAILS

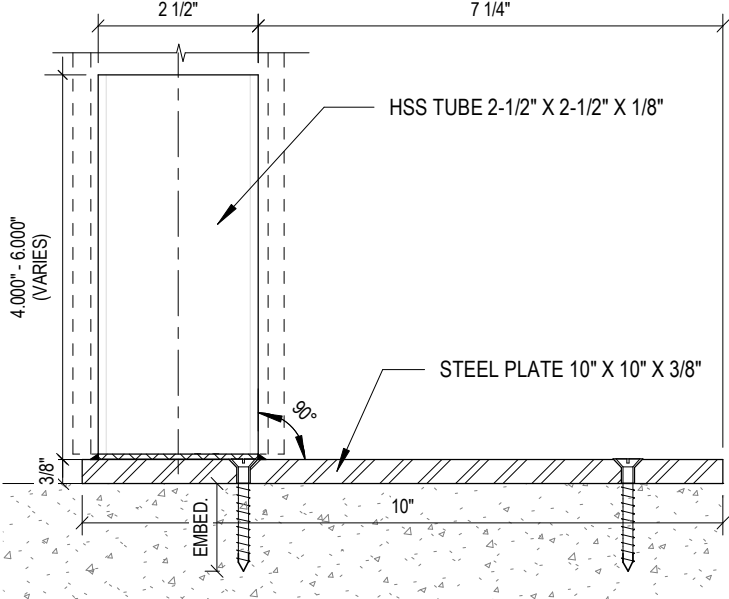
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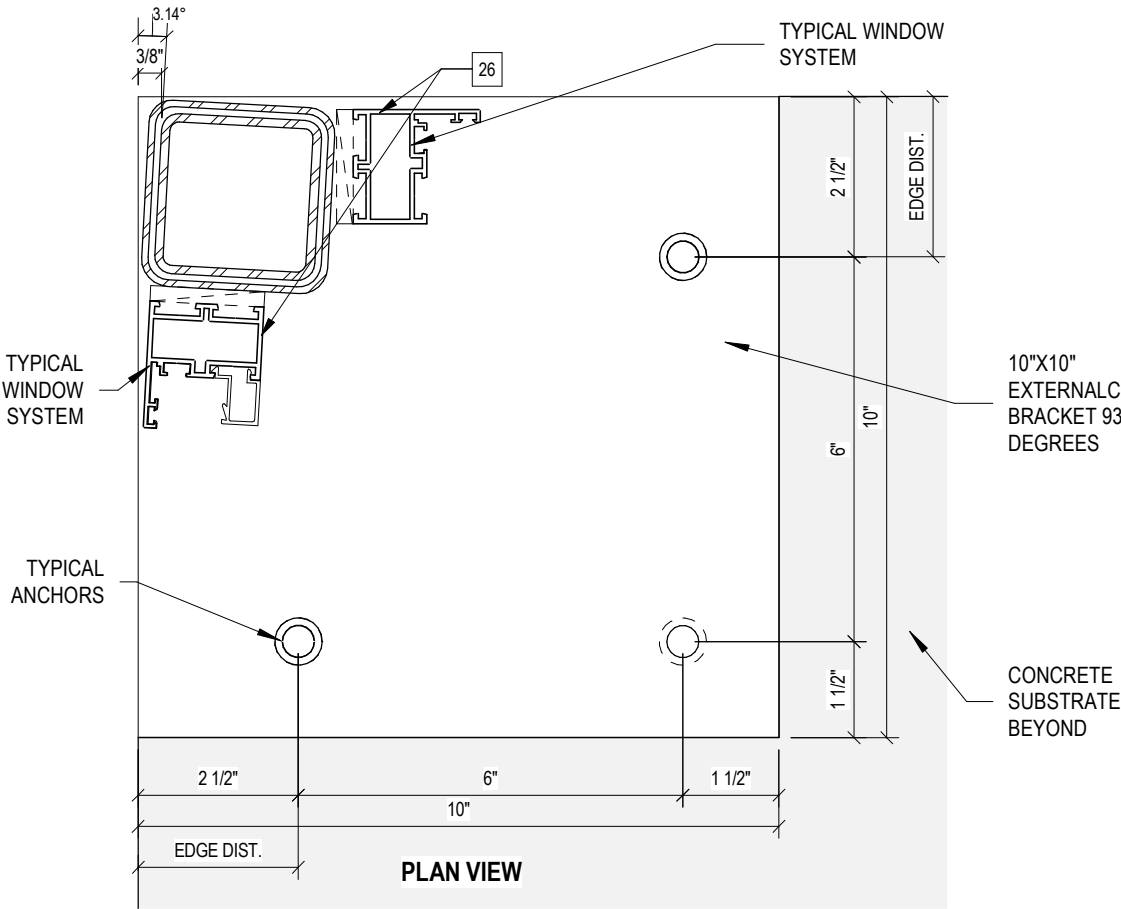
ELEVATION VIEW



PLAN VIEW



ELEVATION VIEW



PLAN VIEW

1
115
EXTERNAL CORNER BRACKET
N.T.S.

2
115
93° CORNER BRACKET
N.T.S.

ALLOWABLE DESIGN STRENGTH FOR THE EXTERNAL CORNER BRACKET (PSF)				
ANCHOR TYPE	MIN. EDGE DISTANCE (IN.)	MIN. NOMINAL EMBED. (IN.)	CONCRETE STRENGTH (PSI)	
			3000	6000
3/8" HILTI KH-EZ C	2 - 1/2"	2 1/2"	90	90
3/8" DEWALT SCREW BOLT + FH	4"	2"	90	90
3/8" SIMPSON STRONG TIE TITEN HD	2 - 1/2"	2 - 1/2"	90	90

NOTE:

- FOR THE BRACKETS TO BE SNUG WITH MULLIONS, USE GLUED PVC PADS AS PER REQUIREMENT.
- FOR ANCHORS BEING EMBEDDED INTO P.T. SLAB, THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING ALL THE SAFETY PRECAUTIONS TO AVOID DAMAGING TO THE EXISTING P.T. TENDONS.



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ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

PROJECT :

MB 45 FIXED WINDOW
SYSTEM

CLIENT :

ALUPROF SA

UL. WARSZAWSKA 153, 43-300
BIELSKO-BIALA, POLAND

REVISION

No.	DATE	BY	DESCRIPTION

date: 08/26/2024

scale: N/A

drawn by: MK

check by: BS

Drawing no. JA-1529-23

Eng: JAVAD AHMAD, PE
CIVIL FLA. PE # 70592 - C.A.N.34254



08/26/2024

ANCHORAGE DETAILS

FL #46589.1



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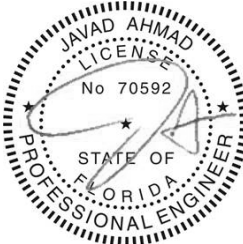
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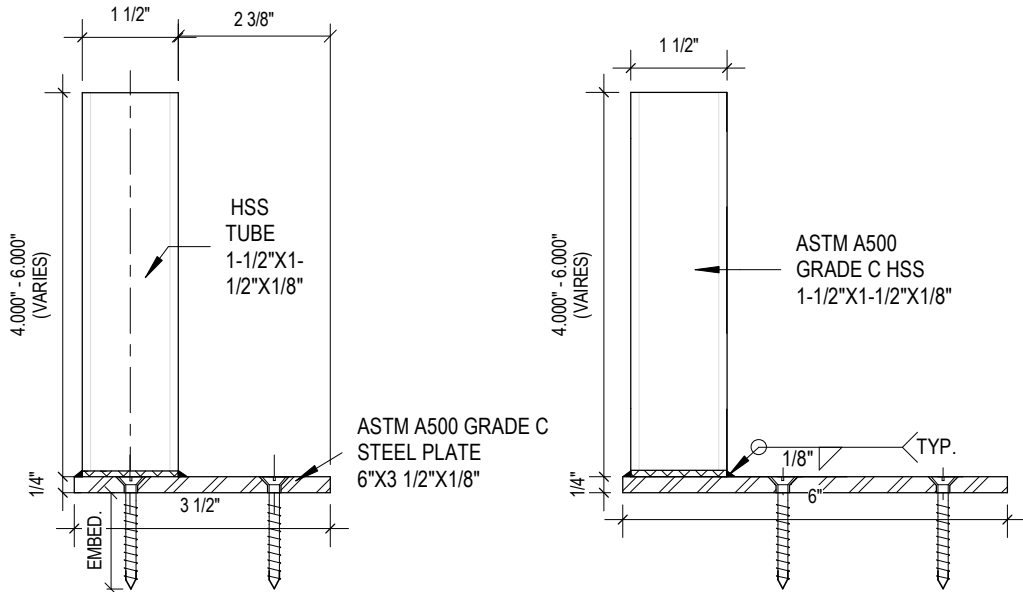
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CIVIL FLA. PE # 70592 - C.A.N.34254



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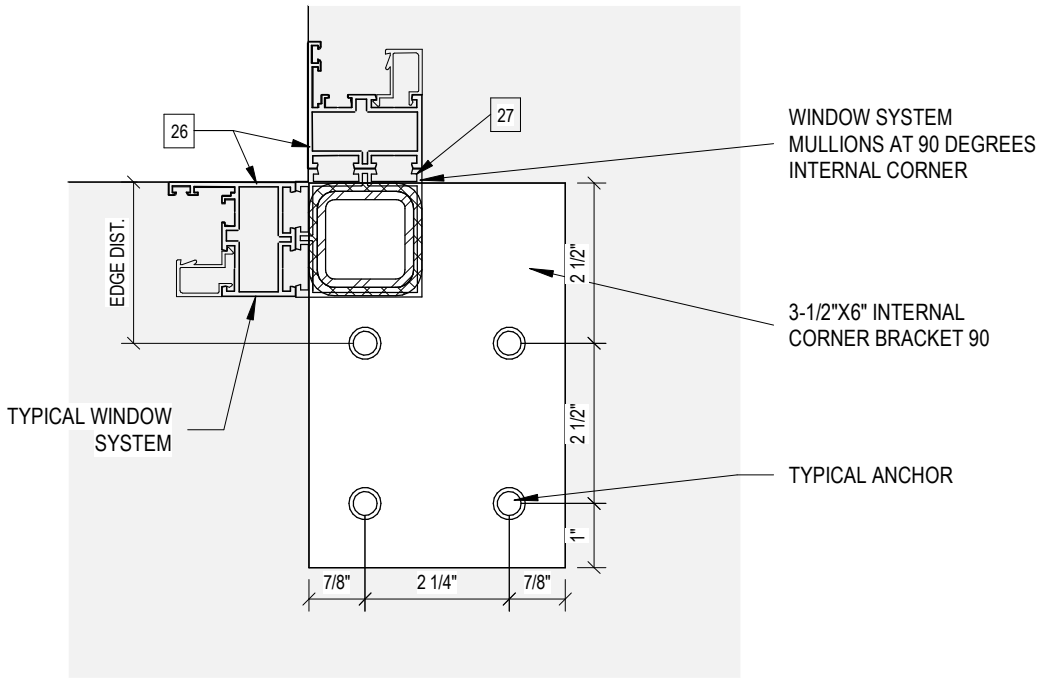
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OF 119

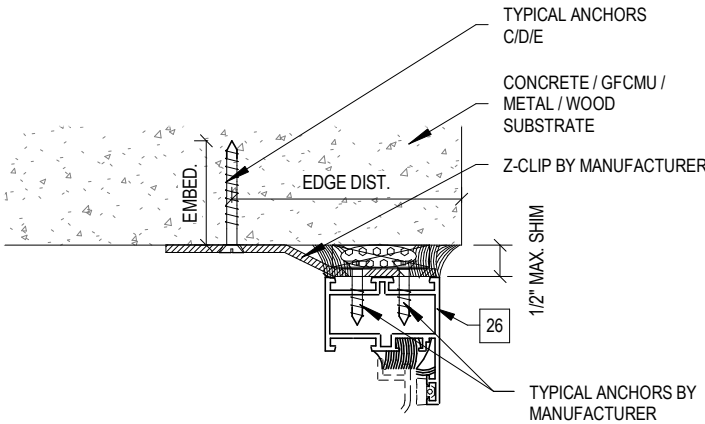
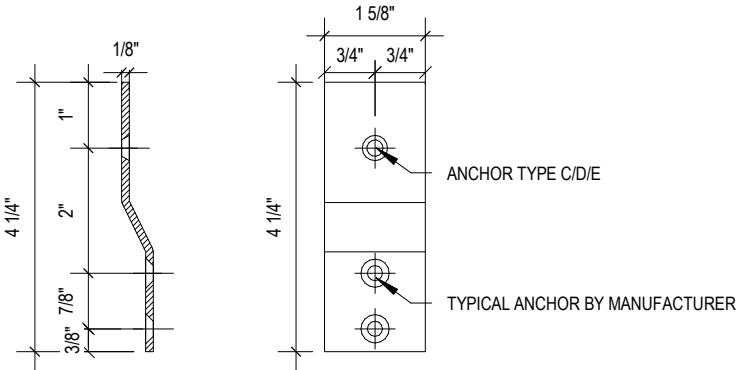


ELEVATION VIEW

SIDE VIEW



PLAN VIEW



2
116 Z-CLIP DETAIL
N.T.S.

NOTE:

TYPE C:

- 1/4" DIA. ULTRACON+ BY DEWALT WITH MIN. 1-3/4" NOMINAL EMBED., 2-1/2" MIN. EDGE DISTANCE INTO MIN. 3000 PSI CONC., PROVIDE Z CLIPS @ MAX. 14" O.C.

TYPE D:

- 1/4" DIA. ULTRACON+ BY DEWALT WITH MIN. 1-3/4" NOMINAL EMBED., 2-1/2" MIN. EDGE DISTANCE INTO MIN. 2000 PSI GFCMU, PROVIDE Z CLIPS @ MAX. 14" O.C.

TYPE E -

- 1/4" "TEKS" SCREWS SMS OR SDS (GRADE 5 MIN) INTO ALUMINUM / STEEL WITH 5 PITCHES PASSED THE THREAD PLANE AND 1" MIN EDGE DISTANCE
- INTO APPROVED MULLIONS WITH 5 PITCHES PASSED THE THREAD PLANE AND 3/4" MIN EDGE DISTANCE
- INTO 2BY WOOD WITH 1-1/2" MIN EMBEDMENT AND 1-1/4" MIN EDGE DISTANCE

BRACKET MATERIAL: ASTM A500 GRADE C STEEL

1
116 INTERNAL CORNER BRACKET
N.T.S.

ALLOWABLE DESIGN STRENGTH FOR THE INTERNAL CORNER BRACKET (PSF)

ANCHOR TYPE	MIN. EDGE DISTANCE (IN.)	MIN. NOMINAL EMBED. (IN.)	CONCRETE STRENGTH (PSI)	
			3000	6000
1/4" HILTI KH - EZ C	3"	1 - 5/8"	75	75
1/4" DEWALT ULTRACON +	2 - 1/2"	1 - 3/4"	75	75
1/4" SIMSON STRONG TIE TITEN HD	3"	1-5/8"	75	75

PARTS LIST

FL #46589.1



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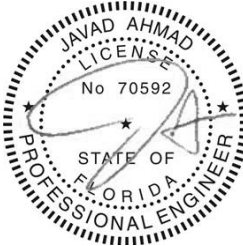
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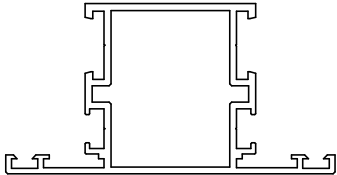
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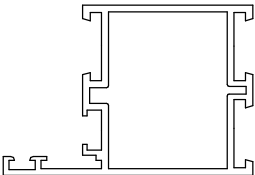
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1 K415223X



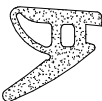
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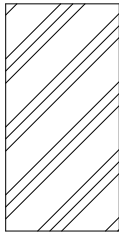
3 K417991X



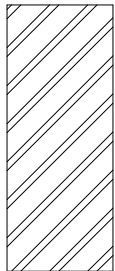
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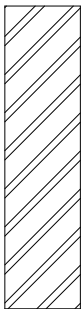
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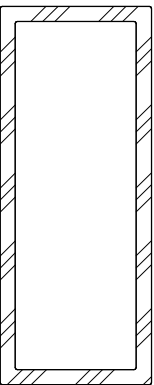
6 ALUMINUM 60X30



7 STEEL 70X30



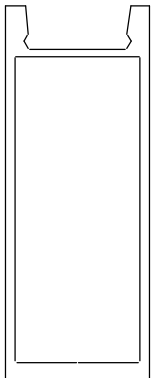
8 STEEL 80X20



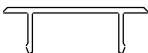
9 ALUMINUM 100X40X4



10 SCREW M8x100



11 K440896X



12 K413923X



13 K417841X



14 K41PL06X



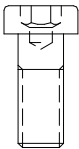
15 ALU. 80X10



16 STEEL 80X10



17 RIVET NUT M8



18 SCREW M8x20



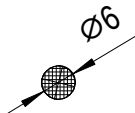
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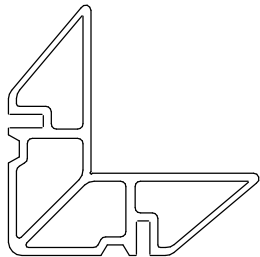
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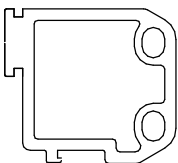
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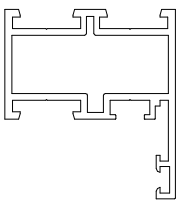
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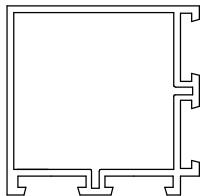
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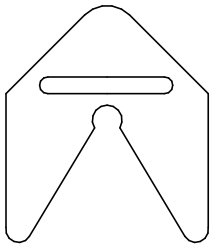
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26 K415218X



27 K417899X



28 80162105



29 K417840X



30 87252203



31 K430229X



32 120541



33 8G00431X

BILL OF MATERIALS				
ITEM #	REQUIREMENT	PART #	DESCRIPTION	MATERIAL
1	AS REQD.	K415223X	INTERMEDIATE MULLION	AW-6060, T66
2	AS REQD.	K415219X	JAMB/HEAD AND SILL MULLION	AW-6060, T66
3	AS REQD.	K417991X	GLAZING BEAD	AW-6060, T66
4	AS REQD.	120518	GASKET	EPDM
5	AS REQD.	120542	GASKET	EPDM
6	AS REQD.	-	ALUMINUM 60X30	AW-6060, T66
7	AS REQD.	-	STEEL 70X30	STEEL
8	AS REQD.	-	STEEL 80X20	STEEL
9	AS REQD.	-	ALUMINUM 100X40X4	AW-6060, T66
10	AS REQD.	-	SCREW M8x100	A2 STEEL
11	AS REQD.	K440896X	REINFORCEMENT PROFILE	AW-6060, T66
12	AS REQD.	K413923X	REMOVABLE CLIP	AW-6060, T66
13	AS REQD.	K417841X	GLAZING BEAD	AW-6060, T66
14	AS REQD.	K41PL06X	ALUMINUM 30X8	AW-6060, T66
15	AS REQD.	-	ALU. 80X10	AW-6060, T66
16	AS REQD.	-	STEEL 80X10	STEEL
17	AS REQD.	-	RIVET NUT M8	A2 STEEL
18	AS REQD.	-	SCREW M8x20	A2 STEEL
19	AS REQD.	80462077	-	PA
20	AS REQD.	80376015	-	A2 STEEL
21	AS REQD.	80372710	-	A2 STEEL
22	AS REQD.	120604	-	PE
23	AS REQD.	80462076	-	PA
24	AS REQD.	80124259	CORNER ASSEMBLY BRACKET	AW-6060, T66
25	AS REQD.	80124123	INTERMEDIATE ASSEMBLY BRACKET	AW-6060, T66
26	AS REQD.	K415218X	FRAME HEAD	AW-6060, T66
27	AS REQD.	K417899X	FRAME TUBE	AW-6060, T66
28	AS REQD.	80162105	-	AW-6060, T66
29	AS REQD.	K417840X	BEAD FOR METAL PANEL	AW-6060, T66
30	AS REQD.	87252203	-	-
31	AS REQD.	K430229X	GLASS STOP	AW-6060, T66
32	AS REQD.	120541	GASKET	EPDM
33	AS REQD.	8G00431X	GASKET	EPDM



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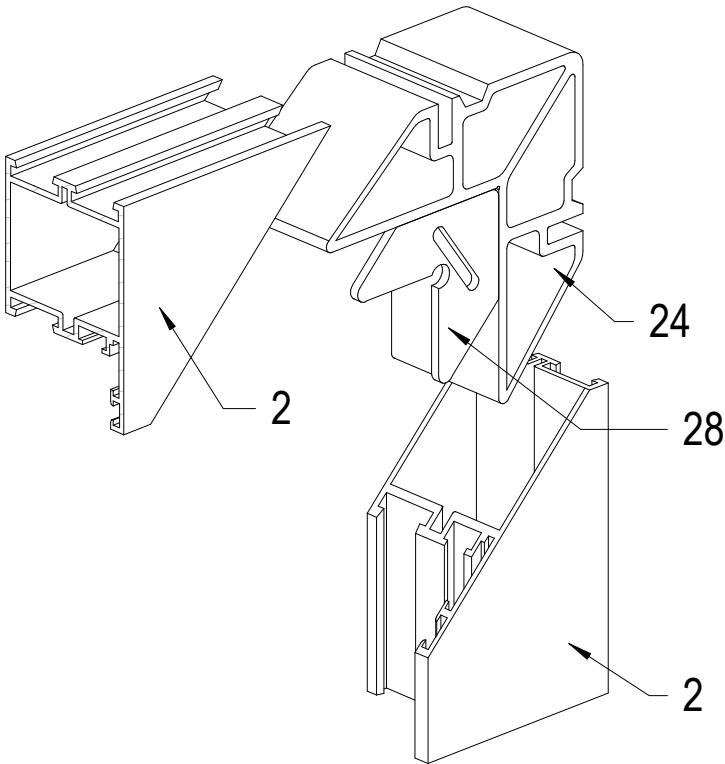
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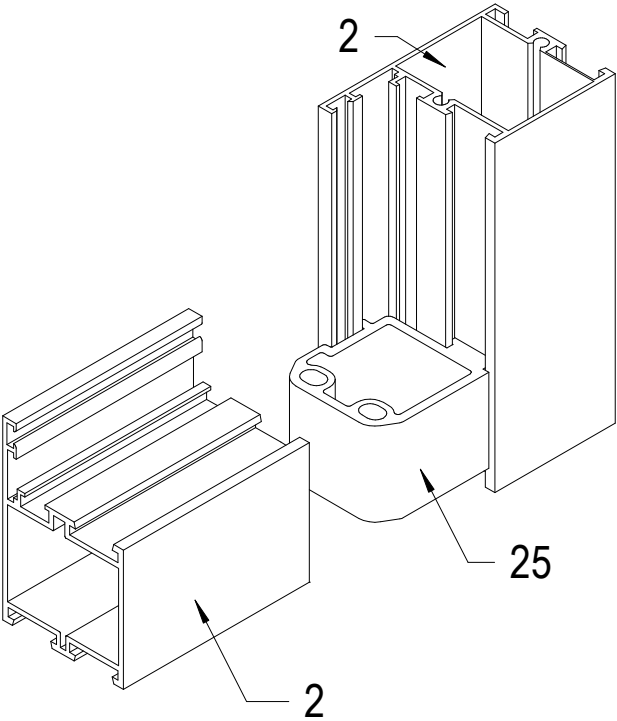
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TOP CORNER ASSEMBLY DETAIL



BOTTOM CORNER ASSEMBLY DETAIL