

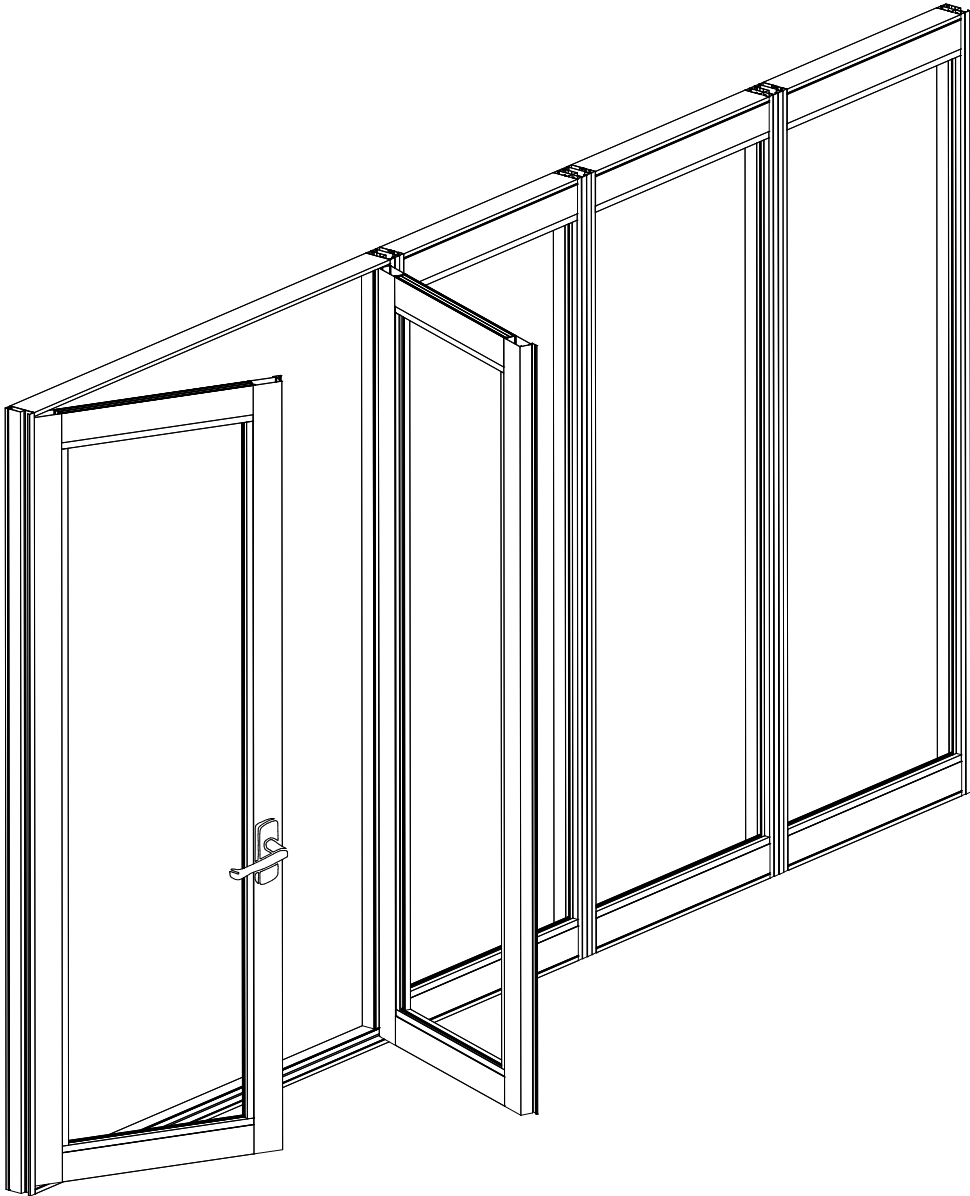
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03	TYPICAL ELEVATIONS
04	PRESSURE TABLES
05	ANCHOR / GLASS COMPOSITION
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12	INSTALLATION DETAIL

TO OBTAIN AUTOCAD/REVIT COMPATIBLE DETAILS OF THIS PRODUCT, KINDLY GET IN TOUCH WITH US CONTACTING US VIA OUR OFFICIAL EMAIL ADDRESS: CONTACT@JA-PE.COM.

SERIES '1000'

FRENCH DOOR

(LARGE MISSILE IMPACT - HVHZ LEVEL D)

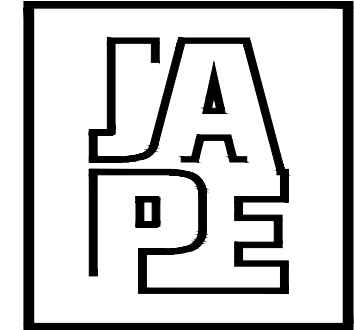


GENERAL NOTES

- THIS SYSTEM PRESENTED HEREIN HAS UNDERGONE DESIGN AND TESTING IN FULL COMPLIANCE WITH THE FLORIDA BUILDING CODE EIGHTH EDITION (2023) AND IS INTENDED FOR USE IN HIGH VELOCITY HURRICANE ZONE PER TAS "201/202/203".
- THE DESIGN PRESSURES OUTLINED IN THIS DOCUMENT ARE DERIVED FROM MAXIMUM TESTED PRESSURES AND INCORPORATE A 1.5 SAFETY FACTOR.
- THE PRESSURES PROVIDED IN THIS CERTIFICATION ARE DETERMINED USING THE ALLOWABLE STRESS DESIGN METHOD (ASD).
- THIS PRODUCT HAS BEEN RIGOROUSLY TESTED IN ACCORDANCE WITH THE STANDARDS DESCRIBED IN NOTE 1 OF THE GENERAL NOTES. IT IS CONFIRMED TO BE RESISTANT TO LARGE MISSILE IMPACT, THEREBY NOT NECESSITATING THE USE OF IMPACT-RESISTANT SHUTTERS.
- THE DESIGN OF THIS SYSTEM DOES NOT INCORPORATE A 33-1/3% INCREASE IN ALLOWABLE STRESS. FOR WOOD ANCHOR DESIGN, A WIND LOAD DURATION FACTOR OF CD=1.6 HAS BEEN EMPLOYED.
- THE ARCHITECT/ENGINEER OF RECORD RESPONSIBLE FOR THE PROJECT'S SUPERSTRUCTURE, WITH WHICH THIS DESIGN IS ASSOCIATED, SHALL ENSURE THE INTEGRITY OF ALL SUPPORTING SURFACES. COORDINATION WITH THE PERMITTING CONTRACTOR IS REQUIRED, AND PROPER ANCHORING OF WOOD BUCKS (BY OTHERS) MUST FACILITATE LOAD TRANSFER TO THE EXISTING STRUCTURE.

- THE DETAILS OF THE SYSTEM PROVIDED HEREIN ARE OF A GENERIC NATURE AND DO NOT OFFER SPECIFIC SITE INFORMATION. FOR SITE CONDITIONS THAT DIFFER FROM THOSE SPECIFIED HERE, A LICENSED ENGINEER OR REGISTERED ARCHITECT MUST PREPARE SITE-SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS CERTIFICATION.
- THE CONTRACTOR IS ACCOUNTABLE FOR INSULATING ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS (E.G., STEEL WITH ALUMINUM).
- THE SUBSTITUTION OF FASTENERS DESCRIBED IN THIS CERTIFICATION IS PERMISSIBLE, PROVIDED THE ALTERNATIVE ANCHOR EXHIBITS STRENGTH EQUAL TO OR GREATER THAN THE ORIGINALLY SPECIFIED FINAL APPROVAL OF SUBSTITUTED ANCHORS SHALL BE GRANTED BY RELEVANT AUTHORITIES.
- THE WOOD SCREWS REFERENCED IN THIS CERTIFICATION MUST MEET A MINIMUM GRADE OF 2 (FU = 74,000 PSI).
- THE ENGINEER'S SEAL AFFIXED HERE VALIDATES THE STRUCTURAL DESIGN AS PRESENTED SOLELY. ANY USE OF THIS SPECIFICATION BY THE CONTRACTOR OR OTHERS INDEMNIFIES AND SAVES THE ENGINEER HARMLESS FROM ALL COSTS AND DAMAGES, INCLUDING LEGAL FEES AND APPELLATE FEES ARISING FROM MATERIAL FABRICATION, SYSTEM ERECTION, AND CONSTRUCTION PRACTICES BEYOND THE SCOPE CALLED FOR BY LOCAL, STATE, AND FEDERAL CODES OR DEVIATIONS FROM THE PLAN.
- NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED BEYOND WHAT IS EXPRESSLY PROVIDED IN THIS DOCUMENT.

- ALTERATIONS, ADDITIONS, OR ANY MARKINGS TO THIS DOCUMENT ARE STRICTLY PROHIBITED AND WILL INVALIDATE THIS CERTIFICATION.
- PROPER SAFETY MEASURES MUST BE OBSERVED DURING THE INSTALLATION AND USE OF THIS SYSTEM, EVEN THOUGH THEY ARE NOT EXPLICITLY LISTED IN THIS CERTIFICATION.
- EACH PRODUCT SHALL BE PERMANENTLY LABELED WITH A MINIMUM OF ONE LABEL PER SYSTEM, CONTAINING THE FOLLOWING REQUIRED INFORMATION:
CISYSTEMS CORP.
2261 W 76th ST,
HIALEAH, FL 33016
APPROVED BY FLORIDA BUILDING COMMISSION
FL PRODUCT APPROVAL FL# 47867



JAVAD AHMAD PE, inc

7875 NW 12 Street, Suite 102
Doral, FL 33126
Ph: (305) 424-8001
support@ja-pe.com
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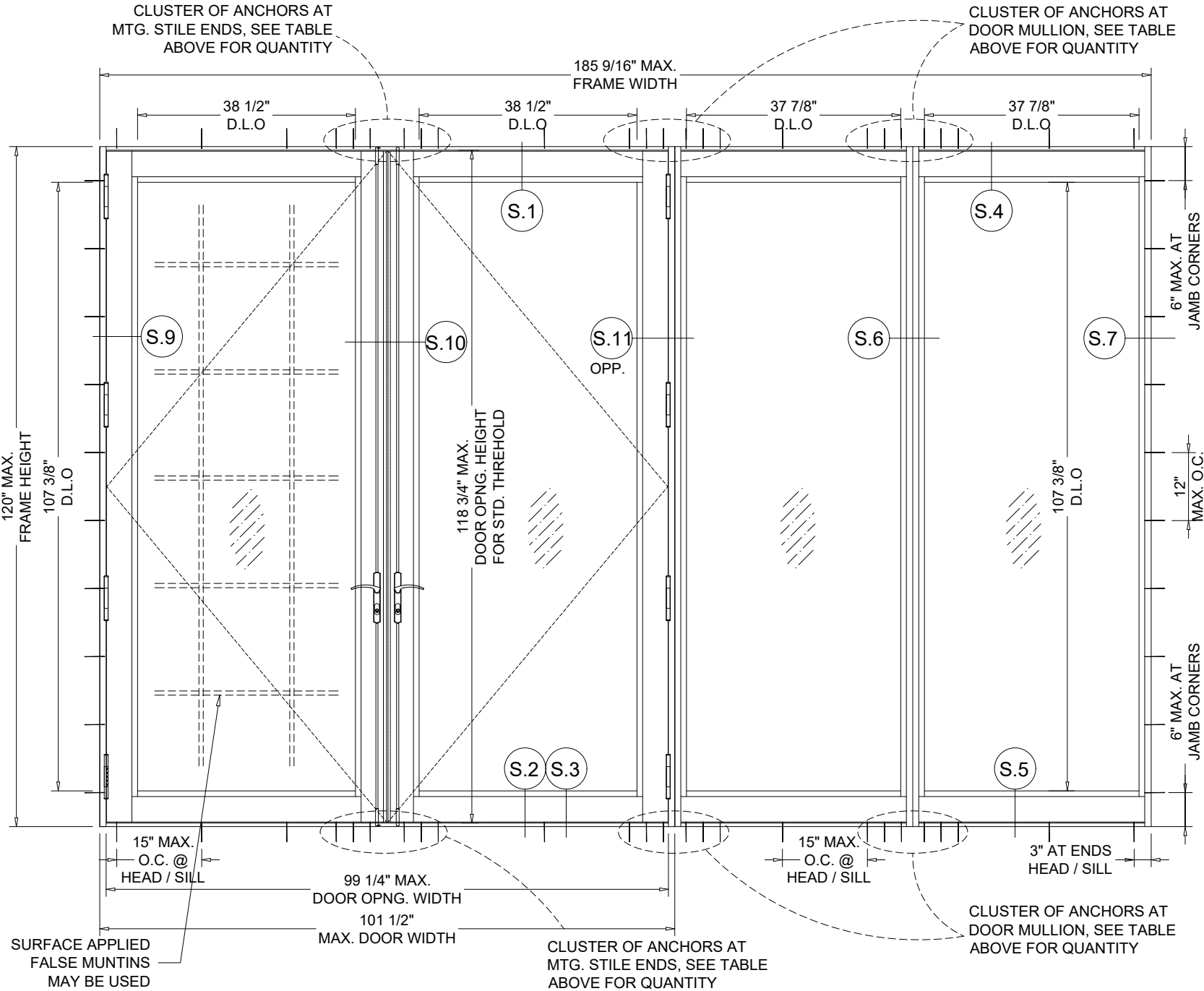
PROJECT :			
SERIES '1000' FRENCH DOOR (LARGE MISSILE IMPACT)			
CLIENT :			
CISYSTEMS CORP.			
2261 W 76th ST, HIALEAH, FL 33016			
REVISION			
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date:		7/31/2025	
scale:		N/A	
drawn by:		M.S.	
check by:			
Drawing no.		JA-1986-22	
Eng: JAVAD AHMAD, PE CIVIL FLA. PE # 70592 – C.A.N. 34254			
SEALED: 10-27-2025			
COVER PAGE		SHEET No. 01 OF 12	

FL# 47867

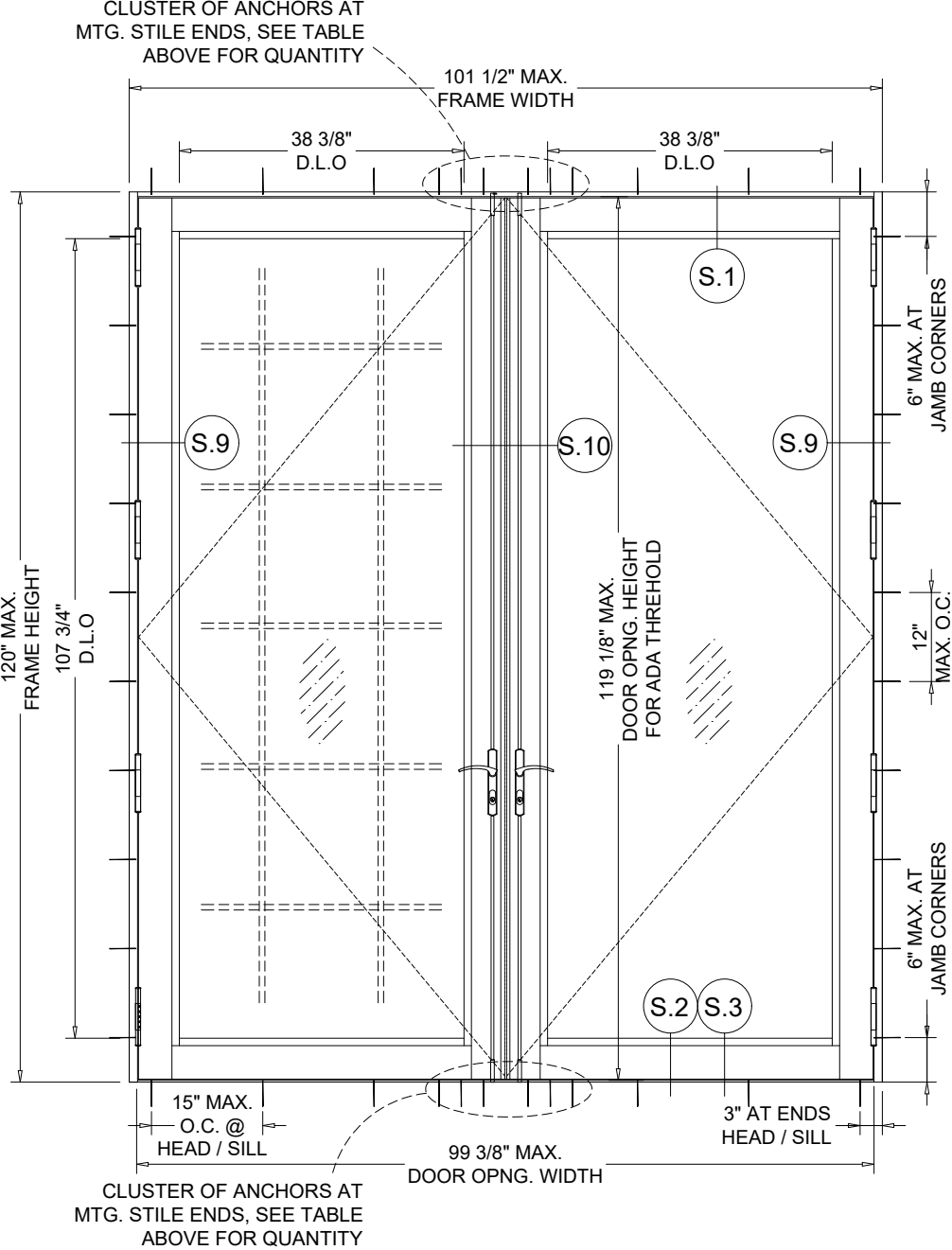
TYPICAL ELEVATIONS

ANCHOR TYPE	NO. OF CLUSTER ANCHORS AT					
	UP TO 98" FRAME HEIGHT			UP TO 120" FRAME HEIGHT		
	MTG. STILE ENDS	DOOR MULLION ENDS	SIDELITE MULLION ENDS	MTG. STILE ENDS	DOOR MULLION ENDS	SIDELITE MULLION ENDS
A	6	6	6	8	8	6
B	4	4	4	4*	4*	4
C	6	6	6	8	8	6

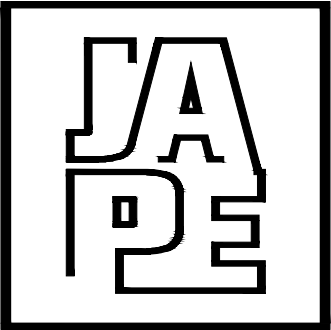
* NOTE: PROVIDE CLUSTER OF (6) ANCHORS WHEN PASSING THU 1BY WOOD BUCK INTO CONCRETE.



ALLOWABLE LOAD CAPACITY: +/- 60.0 PSF (MAX.)



ALLOWABLE LOAD CAPACITY: +/- 60.0 PSF (MAX.)



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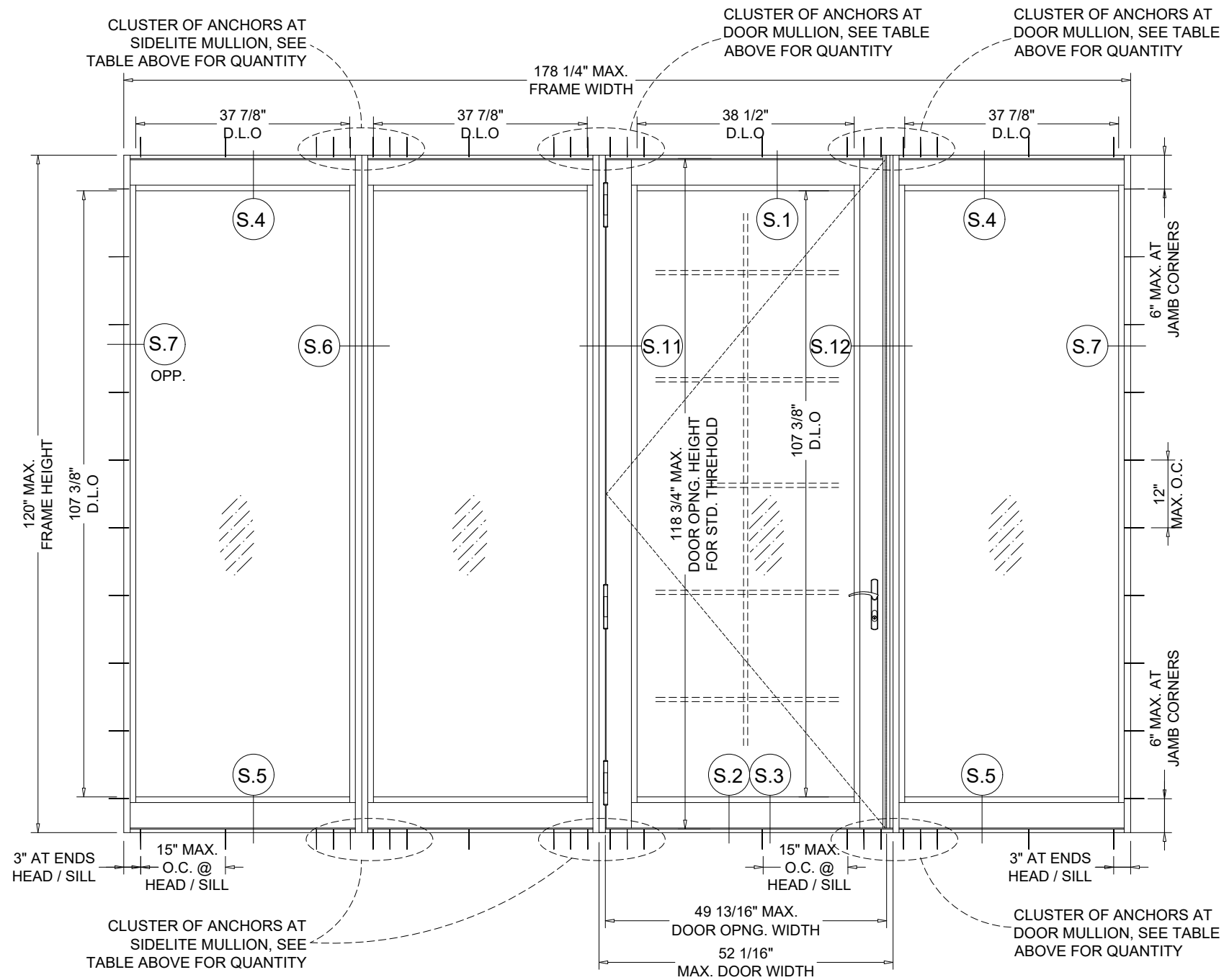
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SEALED: 10-27-2025			
TYP. ELEVATION		SHEET No. 02 OF 12	

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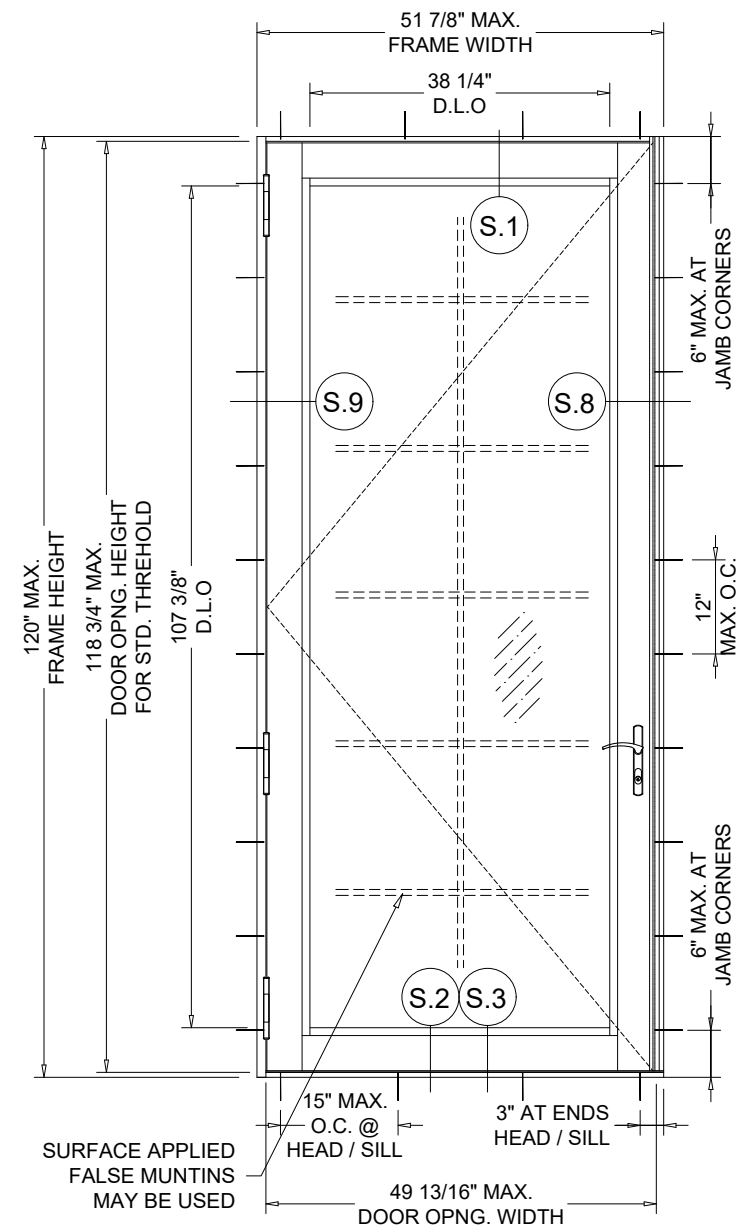
TYPICAL ELEVATIONS

ANCHOR TYPE	NO. OF CLUSTER ANCHORS AT					
	UP TO 98" FRAME HEIGHT			UP TO 120" FRAME HEIGHT		
	MTG. STILE ENDS	DOOR MULLION ENDS	SIDELITE MULLION ENDS	MTG. STILE ENDS	DOOR MULLION ENDS	SIDELITE MULLION ENDS
A	6	6	6	8	8	6
B	4	4	4	4*	4*	4
C	6	6	6	8	8	6

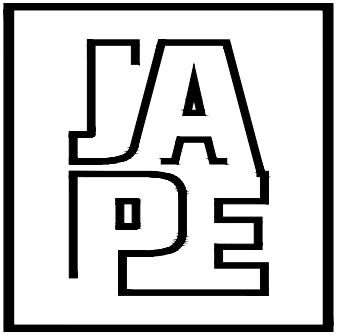
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HIALEAH, FL 33016

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scale:	N/A
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drawn by:	M.S.
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check by:

Drawing no.	JA-1986-22
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CIVIL FLA. PE # 70592 - C.A.N. 34254



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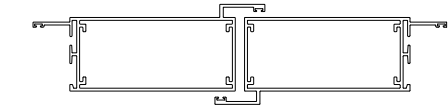
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03 OF 12

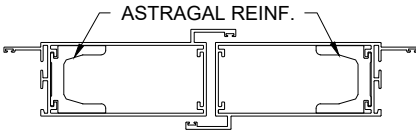
FL# 47867

PRESSURE TABLES

DOUBLE DOOR ASTRAGAL LOAD CAPACITY CHART - PSF			
DOOR WIDTH, 'D' (INCHES)	DOOR FRAME HEIGHT, 'H' (INCHES)	W/O REINF. (AST-1)	WITH REINF. (AST-2)
		EXT. (+) INT. (-)	EXT. (+) INT. (-)
64	86	60.0	60.0
72		60.0	60.0
84		54.0	60.0
96		46.0	60.0
104		42.0	60.0
64	98	48.0	60.0
72		42.0	60.0
84		-	60.0
96		-	60.0
104		-	60.0
64	110	-	60.0
72		-	60.0
84		-	60.0
96		-	60.0
104		-	60.0
64	114	-	60.0
72		-	60.0
84		-	60.0
96		-	60.0
104		-	60.0
64	120	-	60.0
72		-	60.0
84		-	60.0
96		-	60.0
101-1/2		-	60.0

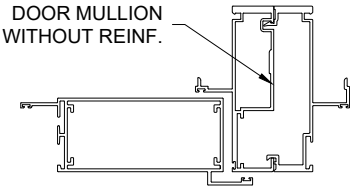


AST - 1	Ix IN^4	Sx IN^3
	2.357	1.710

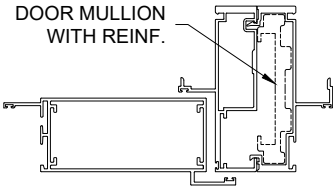


AST - 2	Ix IN^4	Sx IN^3
	3.360	2.453

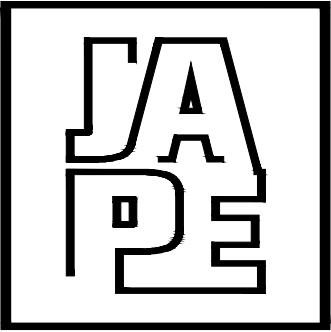
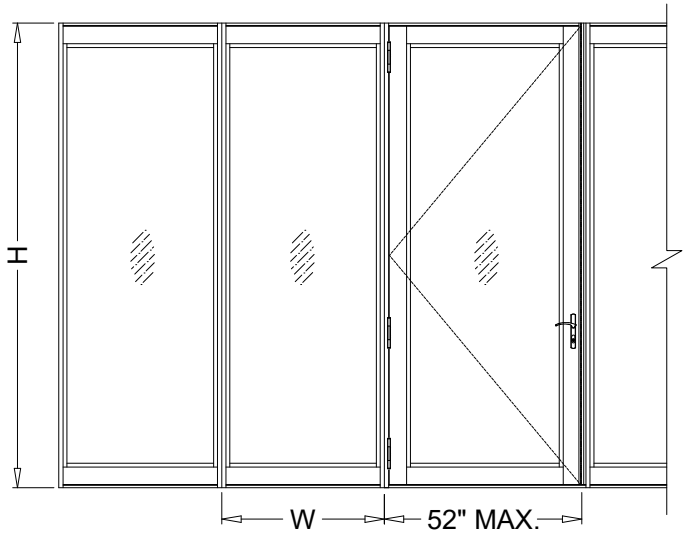
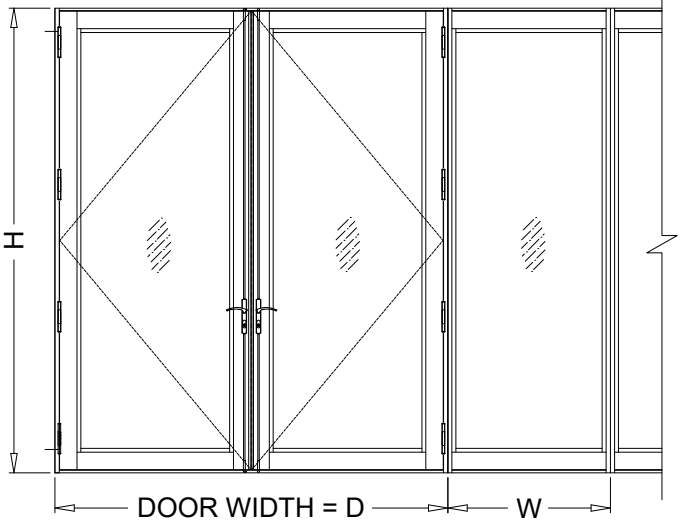
SINGLE & DOUBLE DOOR MULLION WITH SIDELITE LOAD CAPACITY CHART - PSF			
SIDELITE WIDTH, 'W' (INCHES)	DOOR FRAME HEIGHT, 'H' (INCHES)	W/O REINF. (M1/M2)	WITH REINF. (M1R/M2R)
		EXT. (+) INT. (-)	EXT. (+) INT. (-)
32	86	60.0	60.0
36		60.0	60.0
42		60.0	60.0
48		-	60.0
54		-	60.0
32	98	60.0	60.0
36		60.0	60.0
42		60.0	60.0
48		-	60.0
32	110	53.0	60.0
36		48.0	60.0
42		-	60.0
32	114	48.0	60.0
36		43.0	60.0
42		-	60.0
32	120	41.0	60.0
36		-	60.0
42		-	60.0



M1 / M2	Ix IN^4	Sx IN^3
	6.273	2.414



M1R / M2R	Ix IN^4	Sx IN^3
	8.797	3.385



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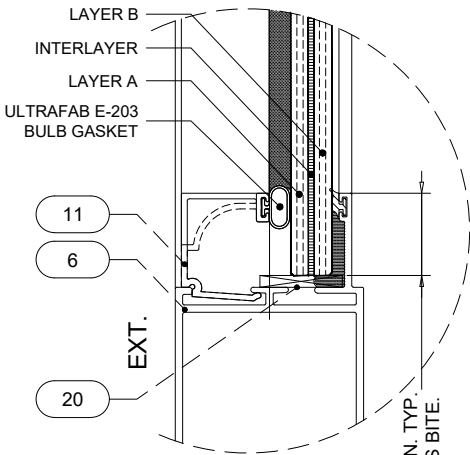
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SEALED: 10-27-2025			
PRESSURE TABLES			SHEET No. 04 OF 12

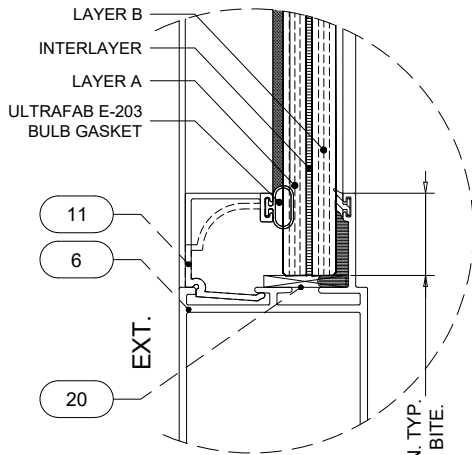
FL# 47867

GLAZING OPTIONS:

GLAZING DETAILS				
GLASS TYPE	LAYER A	INTERLAYER	LAYER B	INT. SEALANT
A	3/16" HEAT STREN'D GLASS	0.090" INTERLAYER TROSIFOL PVB BY 'KURARAY AMERICA, INC.'	3/16" HEAT STREN'D GLASS	SCS 2000 SILICONE
B	1/4" HEAT STREN'D GLASS	0.090" INTERLAYER TROSIFOL PVB BY 'KURARAY AMERICA, INC.'	1/4" HEAT STREN'D GLASS	SCS 2000 SILICONE



GLASS TYPE 'A'
7/16" LAMINATED



GLASS TYPE 'B'
9/16" LAMINATED

SUBSTRATE ANCHORS:

- A

1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
THRU 1BY BUCKS INTO CONC.
1-3/4" MIN. EMBED INTO CONCRETE (HEAD / JAMBS)

DIRECTLY INTO CONC.OR BLOCKS
1-3/4" MIN. EMBED INTO CONC. (HEAD / SILL / JAMB)
1-3/4" MIN. EMBED INTO CONC. OR FILLED-BLOCKS (JAMBS)

ANCHOR EDGE DISTANCES
INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.

- B

5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD (HEAD / JAMBS)

THRU 1BY OR 2BY BUCKS INTO CONC.
2" MIN. EMBED INTO CONCRETE (HEAD / JAMBS)

DIRECTLY INTO CONC.
2" MIN. EMBED INTO CONC. (HEAD / SILL / JAMB)

DIRECTLY INTO BLOCKS
1-3/4" MIN. EMBED INTO FILLED-BLOCKS (JAMBS)

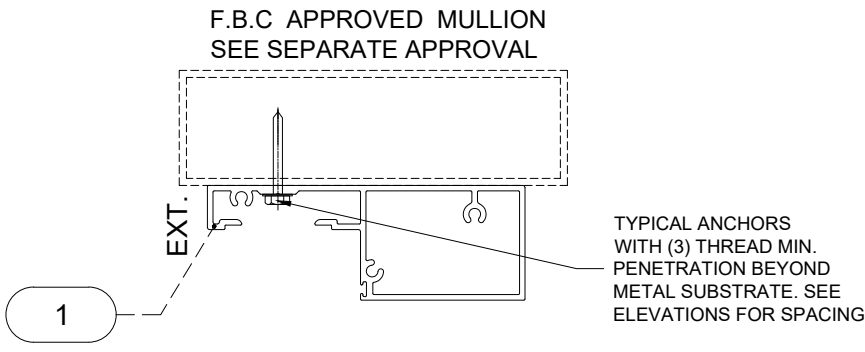
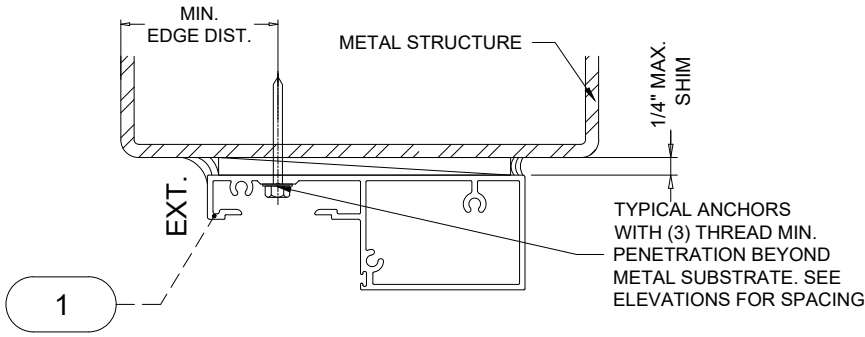
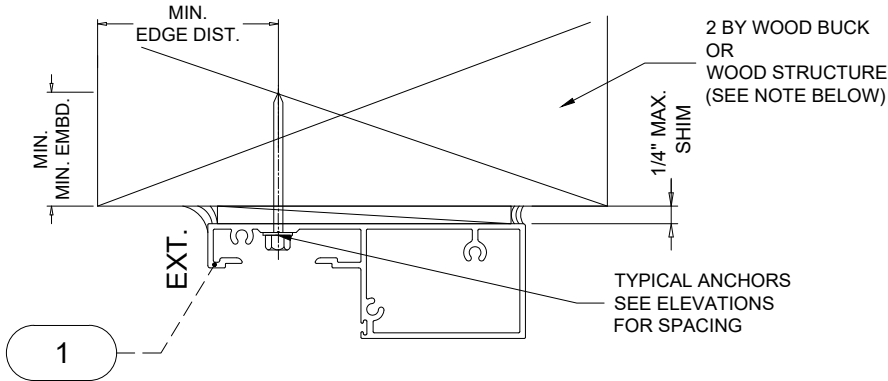
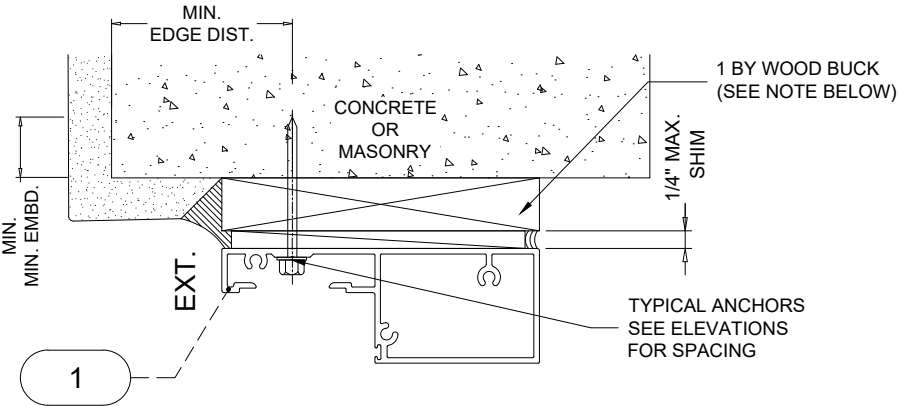
ANCHOR EDGE DISTANCES
INTO CONCRETE AND BLOCKS = 3-1/8" MIN.
INTO WOOD STRUCTURE = 1-9/16" MIN.

- C

1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
INTO F.B.C. APPROVED MULLIONS
OR
INTO METAL STRUCTURES (HEAD/JAMBS)
(3) THREAD MIN. PENETRATION BEYOND METAL SUBSTRATE
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

ANCHOR EDGE DISTANCES

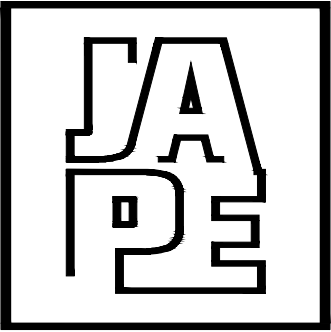
INTO METAL STRUCTURE = 3/4" MIN.



SUBSTRATE STRENGTHS:

WOOD AT HEAD OR JAMBS SG = 0.55 MIN.
CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN. (FOR 1/4" ULTRACON+)
CONCRETE AT HEAD, SILL OR JAMBS f'c = 3500 PSI MIN. (FOR 5/16" ULTRACON)
C-90 GROUT FILLED - BLOCK AT JAMBS f'm = 2000 PSI MIN.

1BY OR 2BY WOOD BUCKS AND METAL STRUCTURE NOT BY 'CISYSTEMS CORP.' MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.



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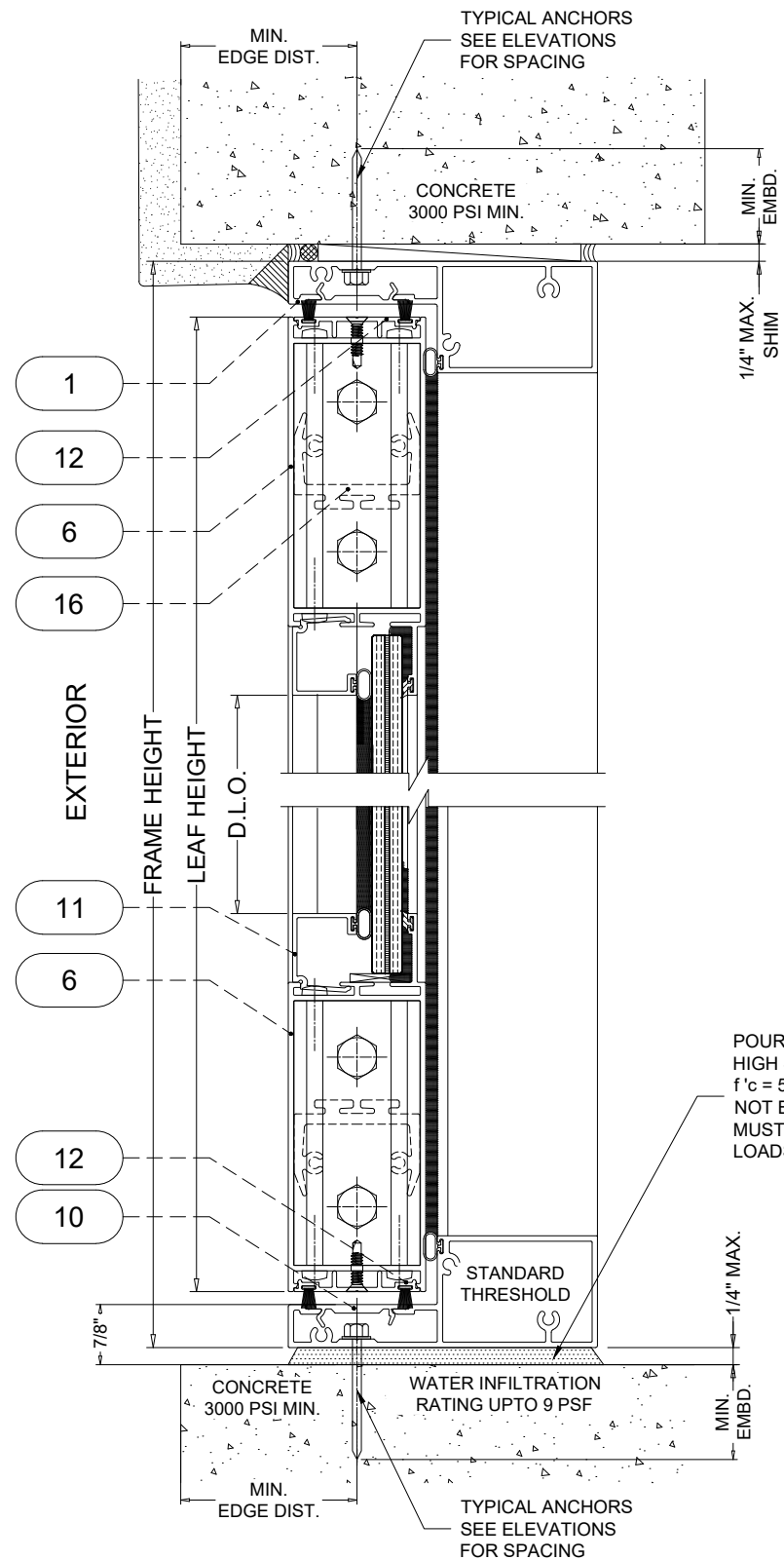
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SEALED: 10-27-2025			
ANCHOR / GLASS DET.			SHEET No. 05 OF 12

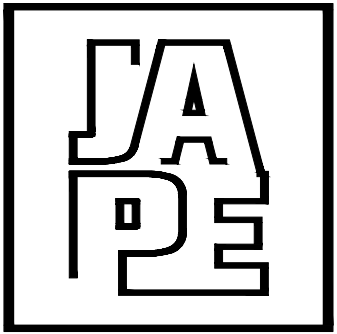
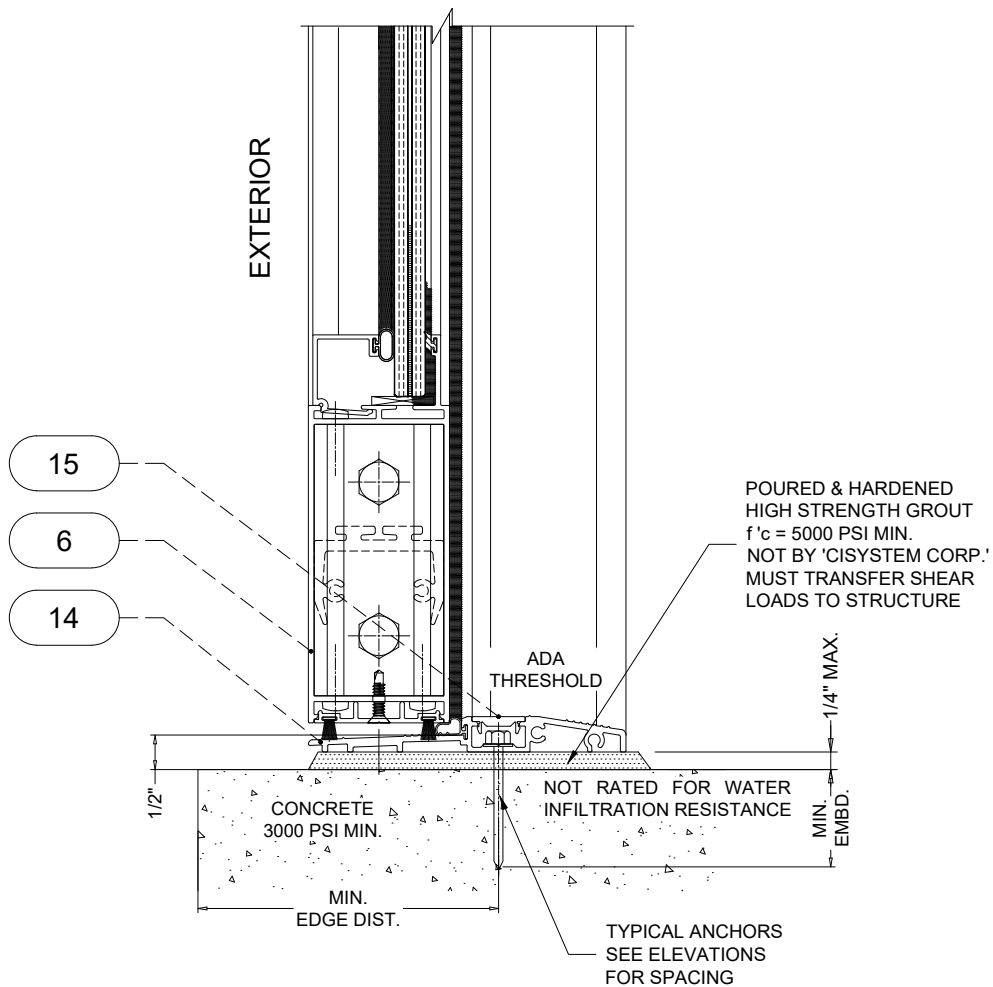
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S1 HEAD DETAIL



S2 SILL DETAIL

S3 SILL DETAIL



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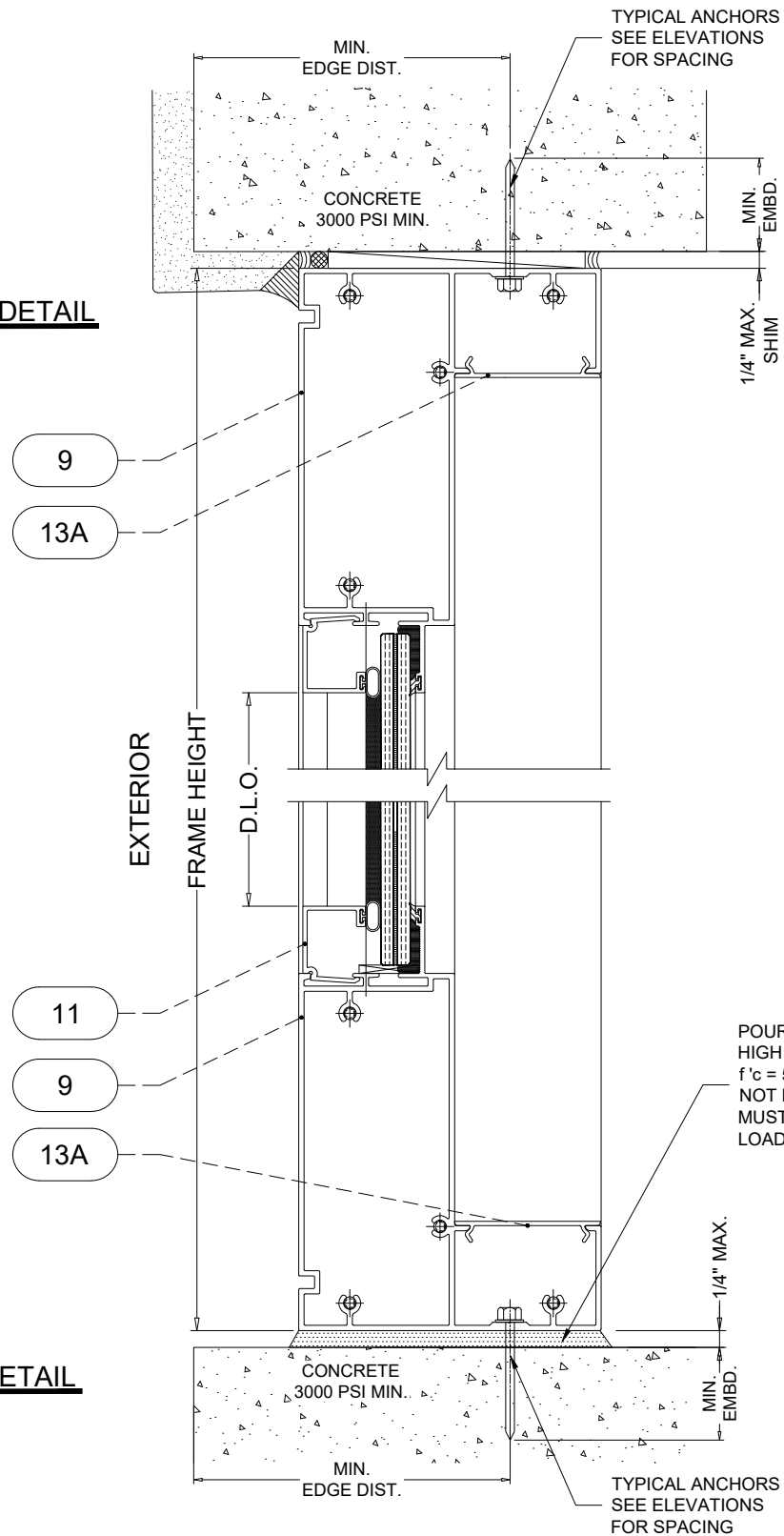
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SEC. DETAILS

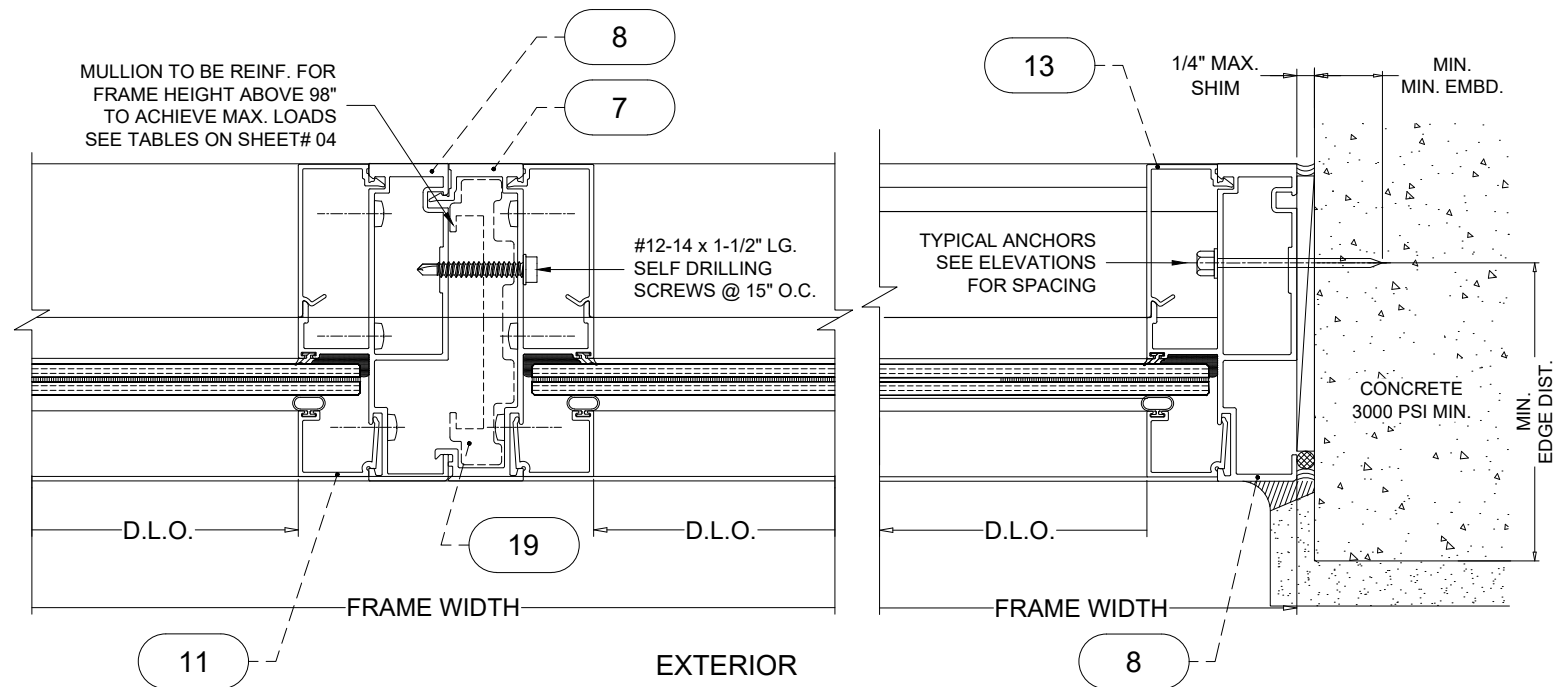
SHEET No.
06 OF 12

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S4 HEAD DETAIL

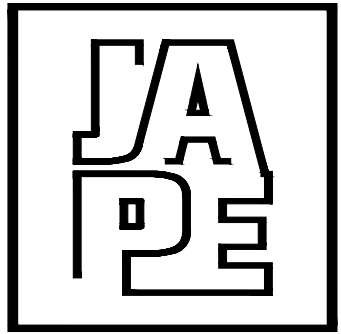
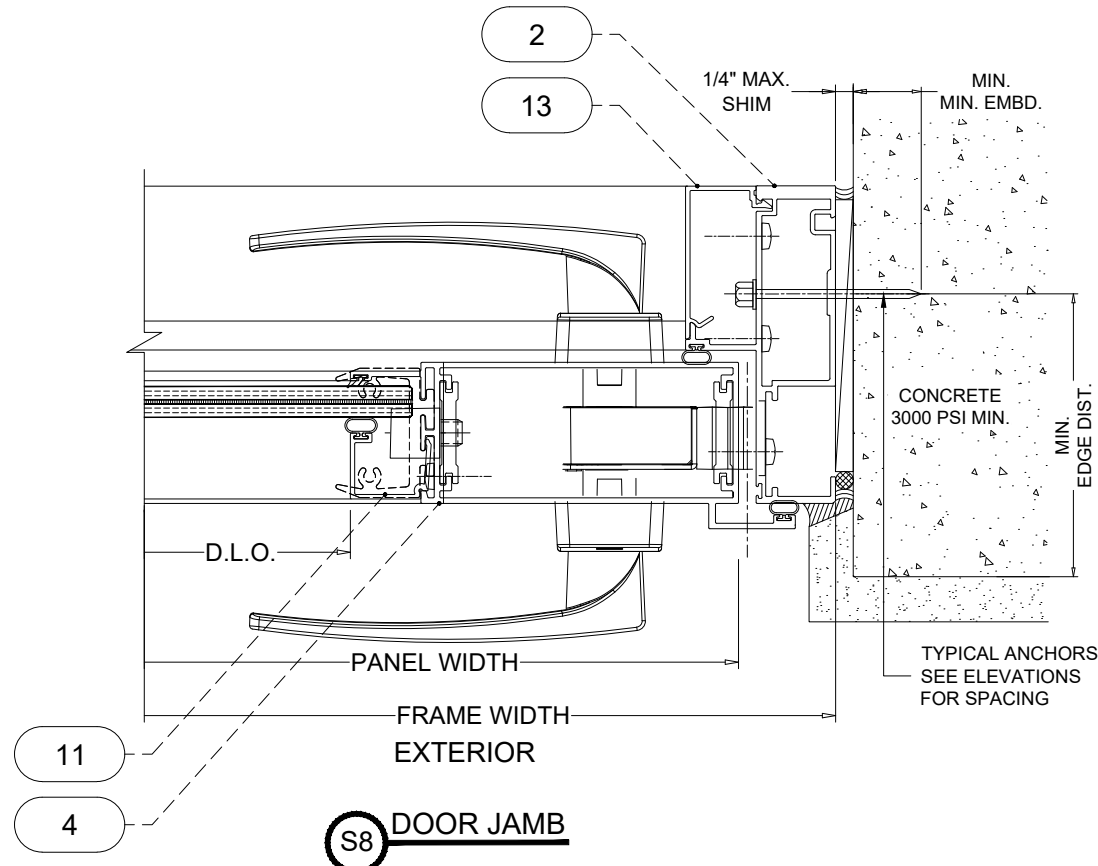


S5 SILL DETAIL



S6 MULLION DETAIL

S7 JAMB DETAIL



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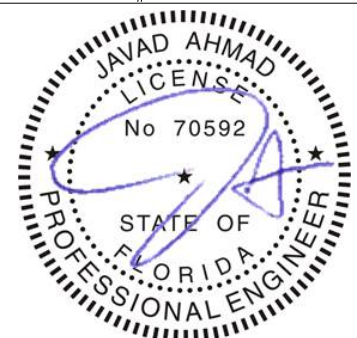
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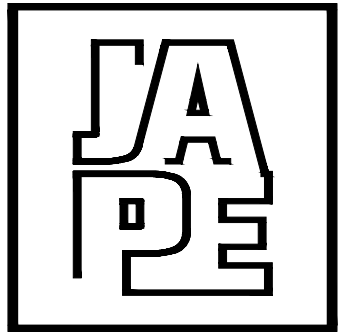


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SEC. DETAILS

SHEET No.
07 OF 12

FL# 47867



JAVAD AHMAD PE, inc

7875 NW 12 Street, Suite 102
Doral, FL 33126
Ph: (305) 424-8001
support@ja-pe.com
CONSULTING • STRUCTURAL DESIGN • FACADES • BUILDING
ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

PROJECT :

SERIES '1000'
FRENCH DOOR
(LARGE MISSILE IMPACT)

CLIENT :

CISYSTEMS CORP.

2261 W 76th ST,
HIALEAH, FL 33016

REVISION

No.	DATE	BY	DESCRIPTION
0			

date: 7/31/2025

scale: N/A

drawn by: M.S.

check by:

Drawing no. JA-1986-22

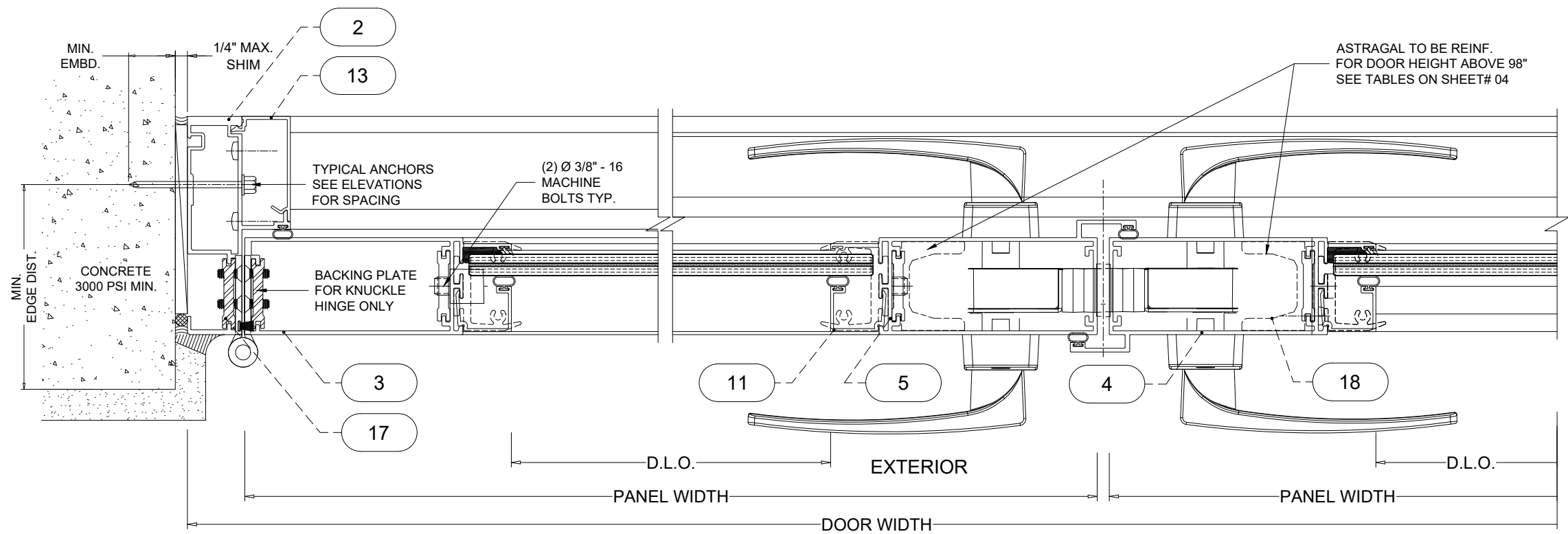
Eng: JAVAD AHMAD, PE
CIVIL FLA. PE # 70592 - C.A.N. 34254



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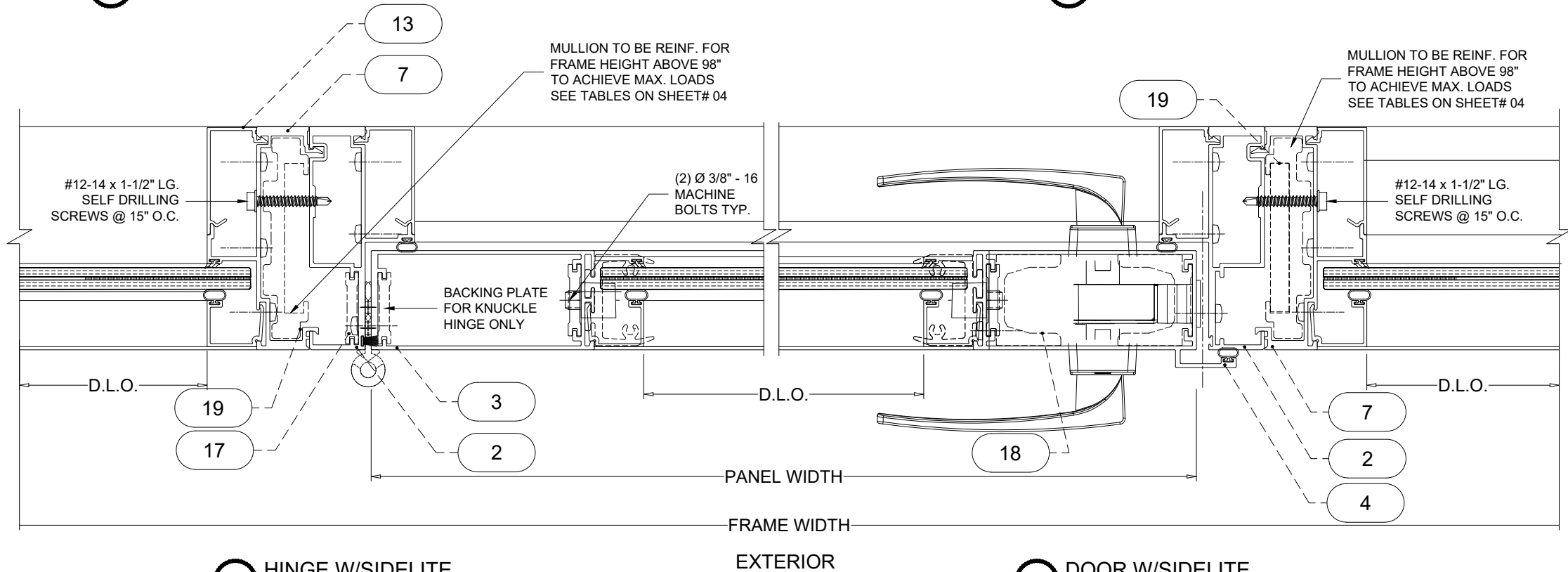
SEC. DETAILS

SHEET No.
08 OF 12



S9 DOOR HINGE DETAIL

S10 MEETING STILE



S11 HINGE W/SIDELITE

S12 DOOR W/SIDELITE

FL# 47867

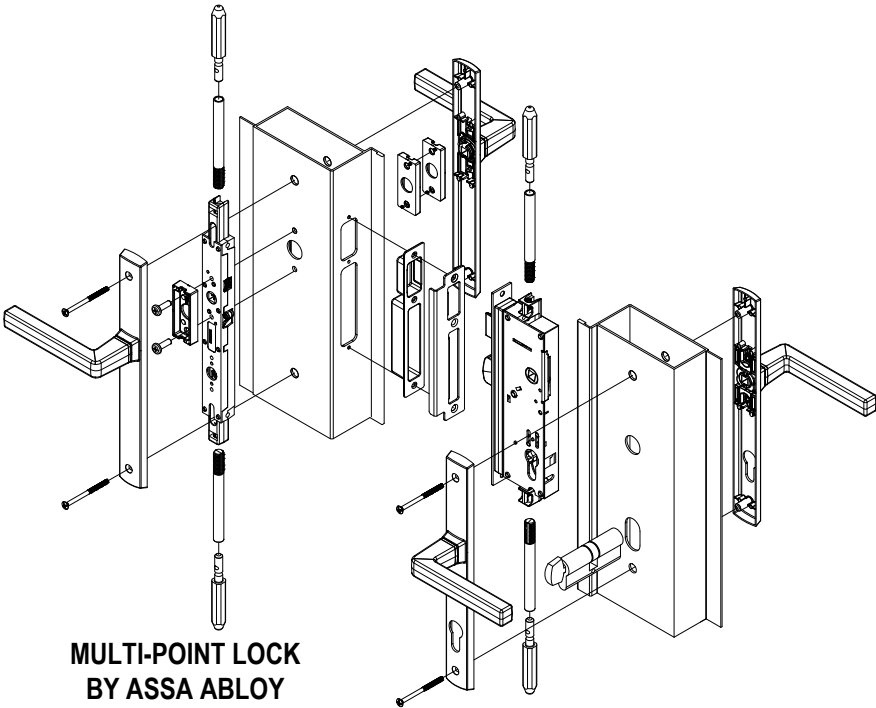
LOCK OPTIONS:

ACTIVE LEAF:

SURFACE MOUNT 3 POINT MORTISE LOCK SYSTEM
BY 'INTERLOCK USA'
KEY OPERATED ON EXTERIOR AND THUMB TURN
ON INTERIOR LEVER TYPE HANDLE AT 40" FROM
BOTTOM ACTIVATES SHOOT BOLTS ENGAGING AT
HEAD AND SILL FASTENED WITH
(2) #10X3/4" FH SMS

INACTIVE LEAF:

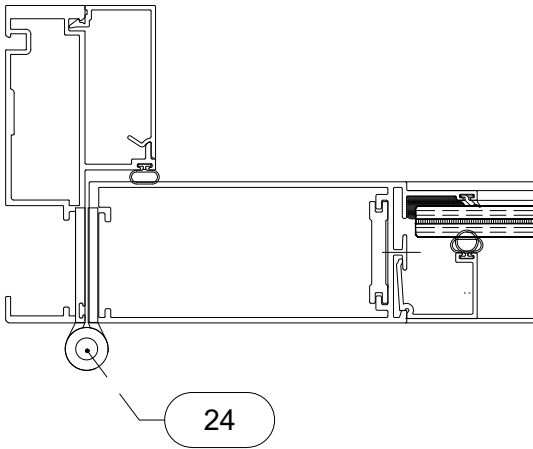
SURFACE MOUNT 2 POINT LOCK SYSTEM
BY 'INTERLOCK USA'
LEVER TYPE HANDLE AT 40" FROM BOTTOM
ACTIVATES SHOOT BOLTS ENGAGING AT
HEAD AND SILL FASTENED WITH
(2) #10X3/4" FH SMS



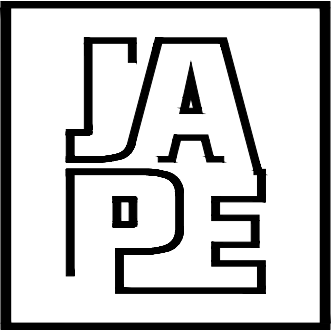
HINGE OPTIONS:

HINGE:

4 X 4-3/4" ST. STEEL BALL BEARING BUTT HINGES
(4) PER LEAF
(1) AT 9-5/8" FROM TOP TO CL OF HINGE
(1) AT 10-5/16" FROM BOTTOM TO CL OF HINGE
(2) INTERMEDIATE HINGES EQUALLY SPACED FROM TOP
AND BOTTOM HINGE
FASTENED TO DOOR FRAME AND LEAF STILE WITH
(4) #12-24 X 1/2" FH MACHINE SCREWS PER HASP



BILL OF MATERIALS					
ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF. / SUPPLIER / REMARKS
1	E1001	1/LEAF	FRAME HEAD / FRAME SILL	6063-T6	-
2	E1002	2/DOOR	FRAME JAMB	6063-T6	-
3	E1004	1/LEAF	DOOR HINGE STILE	6063-T6	-
4	E1005	AS REQ.	ACTIVE ASTRAGAL STILE	6063-T6	-
5	E1006	AS REQ.	INACTIVE ASTRAGAL STILE	6063-T6	-
6	E1003	2/LEAF	TOP / BOTTOM RAIL	6063-T6	-
7	E1007	1/MULLION	SIDELITE MALE MULLION	6063-T6	-
8	E1008	1/MULLION	SIDELITE FEMALE MULLION	6063-T6	-
9	E1009	2/PANEL	SIDELITE TOP / BOTTOM RAIL	6063-T6	-
10	E1010	AS REQ.	SNAP-IN COVER	6063-T6	-
11	E1011	AS REQ.	GLASS STOP	6063-T6	-
11A	E1011A	AS REQ.	ALTERNATE OGEE GLASS STOP	6063-T6	-
12	E1013	AS REQ.	WEATHER STRIP ADAPTER	6063-T6	-
13	E1014	AS REQ.	SNAP-IN COVER	6063-T6	-
13A	E1016	AS REQ.	SIDELITE SNAP-IN COVER	6063-T6	-
14	E1017	1/DOOR	ADA THRESHOLD	6063-T6	-
15	E1018	AS REQ.	THRESHOLD ANCHOR COVER	6063-T6	-
16	E1019	AS REQ.	SHEAR BLOCK	6063-T6	-
17	E1020	AS REQ.	BACKING PLATE	6063-T6	-
18	E1021	AS REQ.	ASTRAGAL REINFORCEMENT	6063-T6	-
19	E1022	AS REQ.	MULLION REINFORCEMENT	6063-T6	-
20	-	1 / QRTR POINT	1" X 1/8" THK. SILICONE SETTING BLOCK FOR GLASS	EPDM DURO: 80 ± 5	-
21	A-1001	AS REQ.	FLUSH BOLT	ZAMAK	-
22	A-1002	AS REQ.	EXTENED POST+TIP	STEEL	-
23	A-1003	AS REQ.	FLUSH BOLT GUIDE	6063-T6	-
24	A-1004	AS REQ.	STEEL BALL BEARING BUTT HINGE	ST / ST	-
25	A-1005	AS REQ.	DEAD BOLT KEEPER	ST / ST	-
26	A-1006	AS REQ.	LATCH KEEPER	ST / ST	-
27	A-1007	AS REQ.	MULTI-POINT LOCK BY ASSA ABLOY	-	-
28	G-1001	AS REQ.	WEATHER STRIP	-	-
29	G-1002	AS REQ.	ULTRAFAB E-203 BULB GASKET	TPE & PROPYLENE	-
30	G-1003	AS REQ.	SPACER GASKET	SILICONE DURO: 80 ±5	-
31	-	AS REQ.	#10-26 X 1-1/2" LG FOR SHEAR BLOCK ATTACHMENT TO RAILS	ST / ST	-
32	-	2/RAIL	Ø 3/8" MACHINE BOLT FOR SHEAR BLOCK ATTACHMENT TO VERTICAL STILES	ST / ST	-



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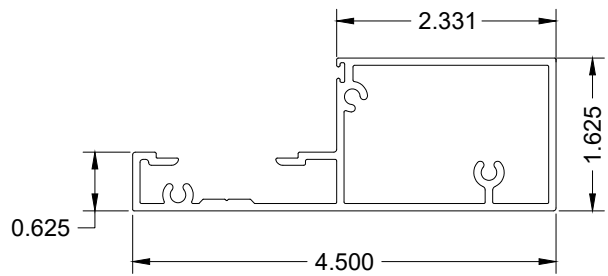


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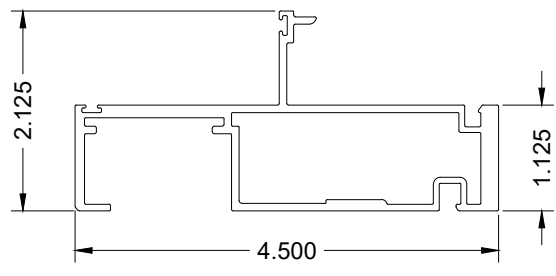
HARDWARE DETAIL

SHEET No.
09 OF 12

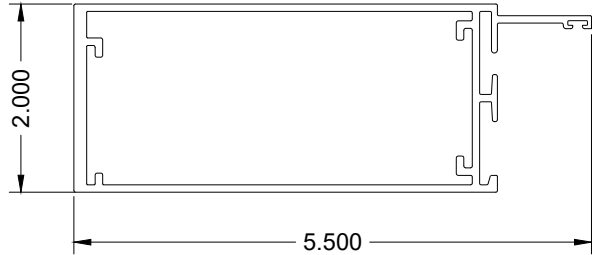
FL# 47867



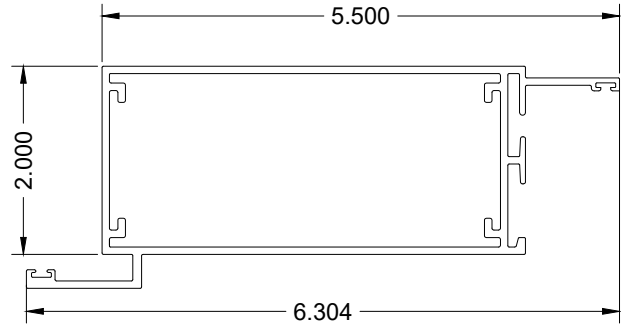
1 HEAD / SILL
SCALE = 6" = 1'-0"



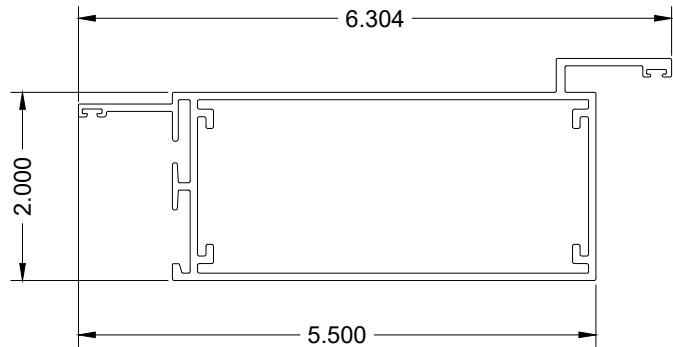
2 JAMB
SCALE = 6" = 1'-0"



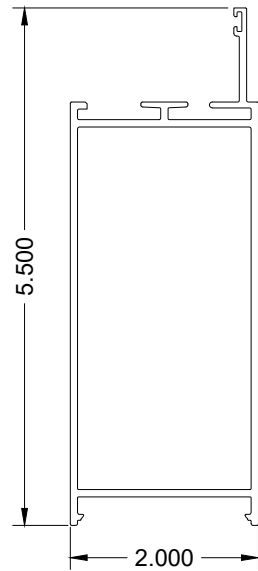
3 HINGE STILE
SCALE = 6" = 1'-0"



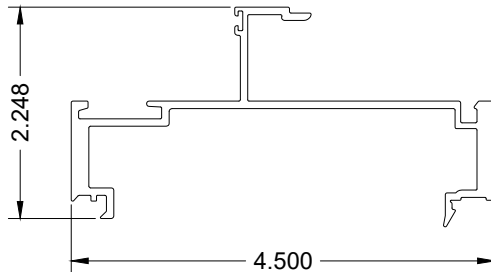
4 ACTIVE ASTRAGAL STILE
SCALE = 6" = 1'-0"



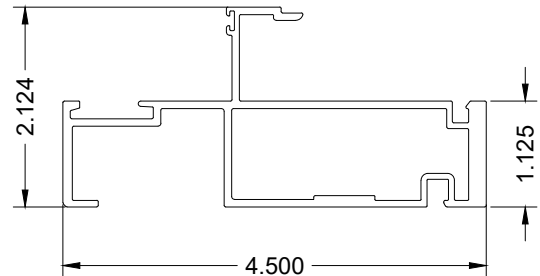
5 INACTIVE ASTRAGAL STILE
SCALE = 6" = 1'-0"



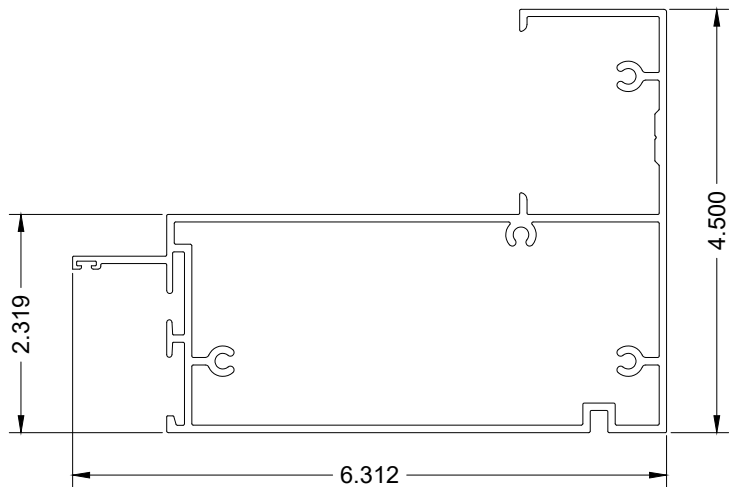
6 TOP / BOTTOM RAIL
SCALE = 6" = 1'-0"



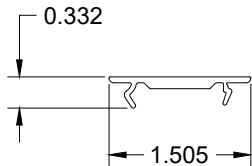
7 SIDELITE MALE MULLION
SCALE = 6" = 1'-0"



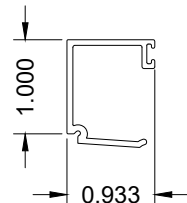
8 SIDELITE FEMALE MULLION
SCALE = 6" = 1'-0"



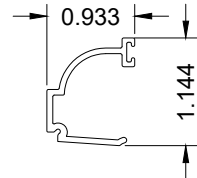
9 SIDELITE TOP/BOTTOM RAIL
SCALE = 6" = 1'-0"



10 SNAP-IN COVER
SCALE = 6" = 1'-0"



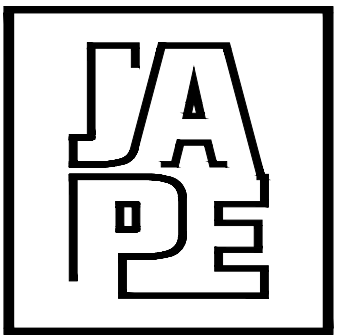
11 GLASS STOP
SCALE = 6" = 1'-0"



11A GLASS STOP
SCALE = 6" = 1'-0"



12 WEATHER STRIP ADAPTER
SCALE = 6" = 1'-0"



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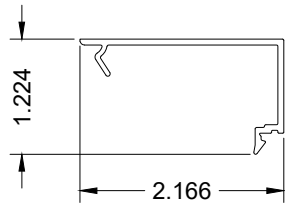


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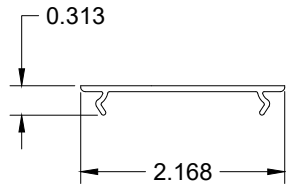
PROFILES

SHEET No.
10 OF 12

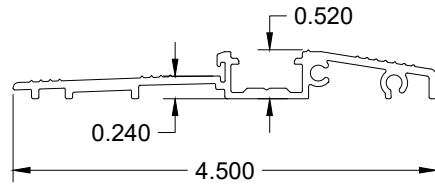
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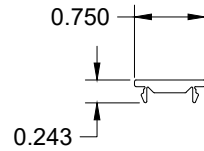
13 **SNAP-IN COVER**
SCALE = 6" = 1'-0"



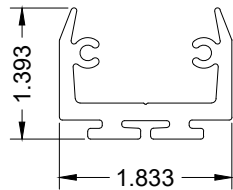
13A **SIDELITE SNAP-IN COVER**
SCALE = 6" = 1'-0"



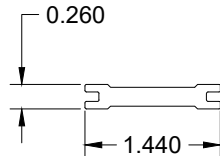
14 **ADA THRESHOLD**
SCALE = 6" = 1'-0"



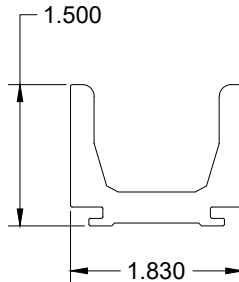
15 **THRESHOLD ANCHOR COVER**
SCALE = 6" = 1'-0"



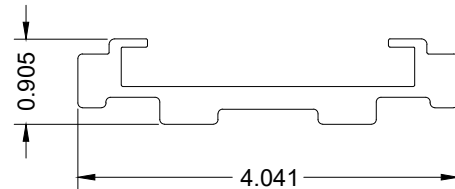
16 **SHEAR BLOCK**
SCALE = 6" = 1'-0"



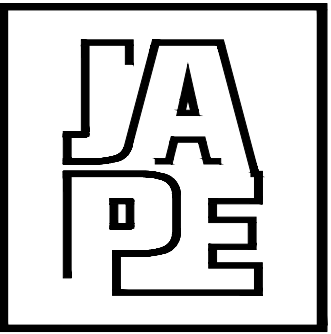
17 **BACKING PLATE**
SCALE = 6" = 1'-0"



18 **ASTRAGAL REINFORCEMENT**
SCALE = 6" = 1'-0"



19 **MULLION REINFORCEMENT**
SCALE = 6" = 1'-0"



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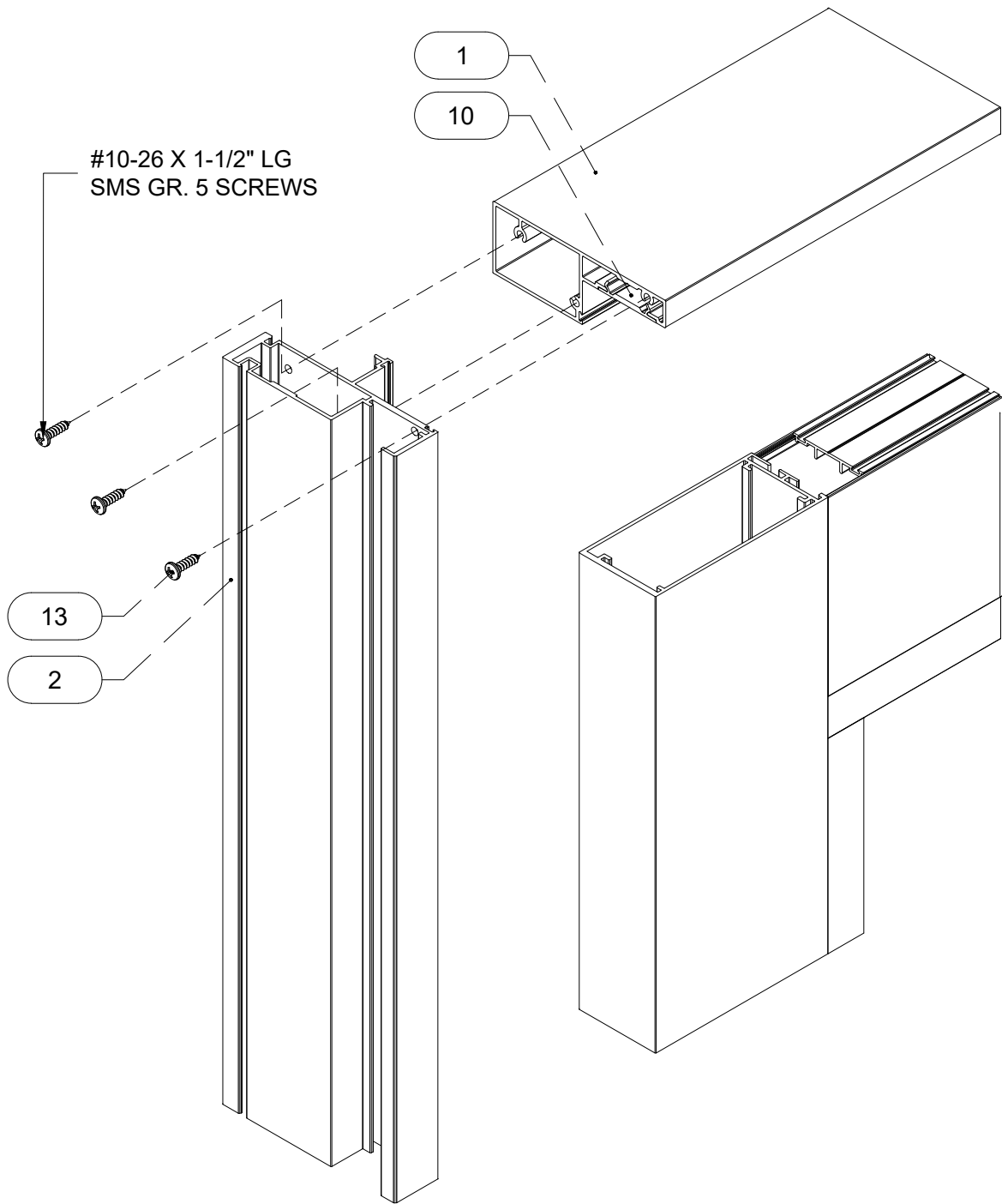


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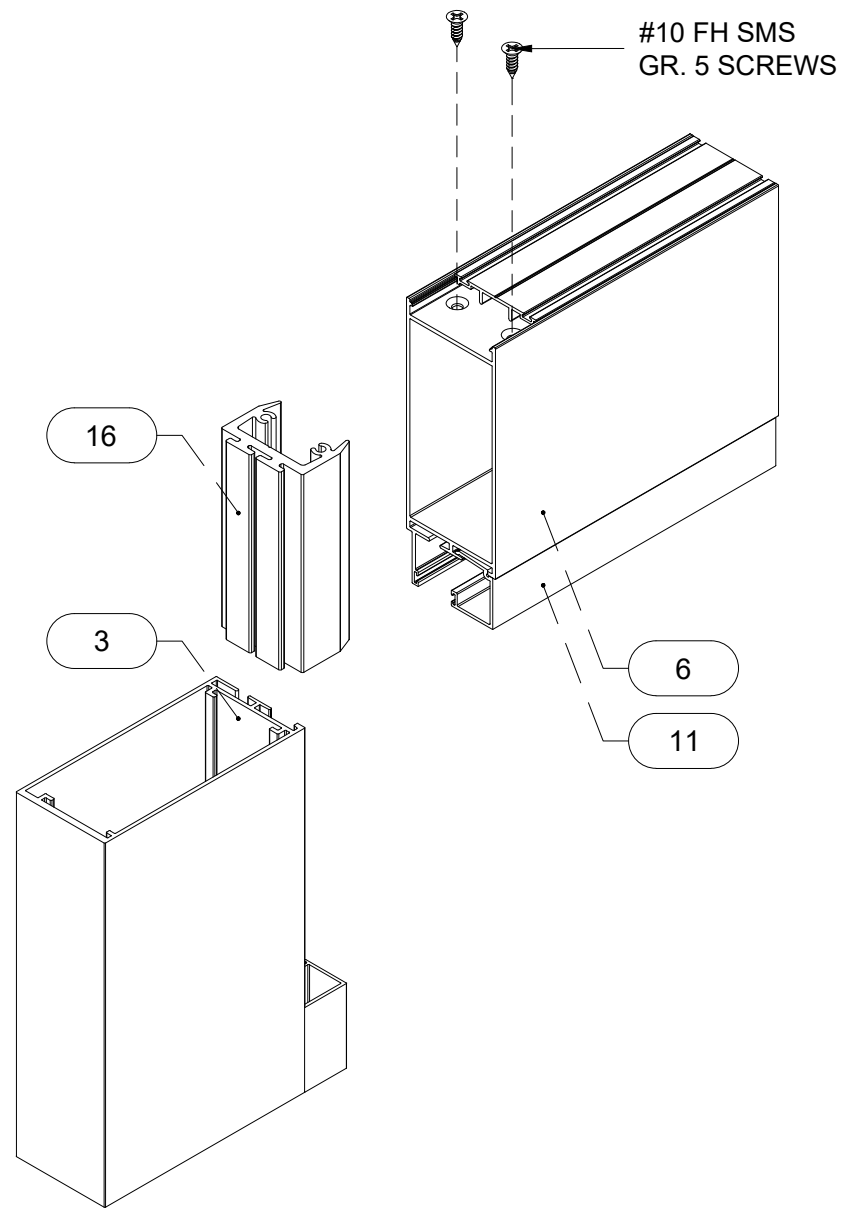
PROFILES

SHEET No.
11 OF 12

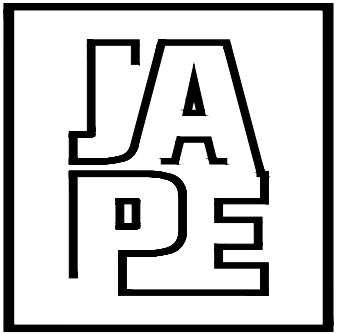
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○ HEAD / JAMB ASSEMBLY



○ DOOR VERTICAL / HORIZONTAL RAIL ASSEMBLY



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INSTALLATION DET.

SHEET No.
12 OF 12

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