

GENERAL NOTES:

1. THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE HIGH VELOCITY HURRICANE ZONE (HVHZ) AND NON-HIGH VELOCITY HURRICANE ZONE (NON-HVHZ) OF 8TH EDITION FLORIDA BUILDING CODE (2023).
2. SYSTEM ARE RATED FOR LARGE AND SMALL MISSILE IMPACT.
3. STAINLESS STEEL SHEET METAL SCREWS USED AT LOUVER PIN SHALL BE # 14 x 3", 410-HT MINIMUM SERIES W/ 135.0 ksi YIELD STRENGTH & 180 ksi TENSILE STRENGTH. SCREWS SHALL BE COATED WITH XYLAN 5000 SERIES FLUOROPOLYMER COATINGS AS MANUFACTURED BY WHITFORD Co, BOX 507. WEST CHESTER PA 19381.
4. ALL ALUMINUM EXTRUSIONS SHALL BE 6063-T6 ALLOY WITH MINIMUM YIELD STRENGTH OF Fy = 31.0 ksi.
5. ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
6. ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.
7. WOOD BUCKS BY OTHERS MUST BE SOUTHERN PINE, G = 0.55 MIN. AND MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE MAIN STRUCTURE.
8. ALL ALUMINUM POP RIVETS TO BE 5052 ALUMINUM ALLOY WITH ALUMINUM MANDREL.
9. BOLTS TO BE GALVANIZED OR STAINLESS STEEL WITH 36 ksi MINIMUM YIELD STRENGTH.
10. SHUTTER'S COMPONENTS ARE PATENT PENDING.
11. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE SOUNDNESS OF THE STRUCTURE WHERE SHUTTER IS TO BE ATTACHED TO INSURE PROPER ANCHORAGE. THIS SHUTTER SHALL ONLY BE ATTACHED TO CONCRETE, BLOCK OR WOOD FRAME BUILDINGS.
12. A PERMANENT SHUTTER MANUFACTURER'S LABEL SHALL BE PLACED ON THE EXPOSED SURFACE OF THE CENTER MATE. ONE LABEL SHALL BE PLACED FOR EVERY OPENING.
LABEL SHALL READ AS FOLLOWS:
"PERFORMANCE SYSTEM 2 ACCORDION SHUTTER"
ALUMINUM TECHNOLOGY CORP.
HIALEAH, FL. 33016
MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED
TEST REPORT TAS - 201, 202 & 203.
13. (a) THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC.

(b) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT BASED ON THIS PRODUCT APPROVAL PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.

(c) THIS PRODUCT APPROVAL DOCUMENT WILL BE CONSIDERED INVALID IF MODIFIED.

(d) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS DELEGATED ENGINEER TO THE P.E.D. ENGINEER, SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.

(e) THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER THAT PREPARED IT.
14. 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.
15. 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.

TYPICAL ANCHORS: (SEE CHARTS FOR ANCHOR SPACING)

- TYPE A.

1/4" DIA. ITW TAPCON BY ITW BUILDEX
Fu = 120 KSI, Fy = 92 KSI
INTO CONCRETE fc'=3000 PSI
1-3/4" MIN. EMBED
2-1/2" MIN. EDGE DISTANCE
- TYPE A1.

INTO CONCRETE BLOCK
1-1/4" MIN. EMBED
2-1/2" MIN. EDGE DISTANCE
- TYPE B.

1/4"-20 CALK-IN BY 'POWERS' FASTENERS
INTO CONCRETE fc'=3000 PSI
7/8" MIN. EMBED
3" MIN. EDGE DISTANCE
- TYPE B1.

INTO CONCRETE BLOCK
7/8" MIN. EMBED
3" MIN. EDGE DISTANCE

- TYPE C.

1/4" CRETE-FLEX SS4 MASONRY ANCHOR BY "ELCO" CONSTRUCTION PRODUCTS
Fu = 120 KSI, Fy = 92 KSI
INTO CONCRETE fc'=3000 PSI
1 3/4" MIN. EMBED
2 1/2" MIN. EDGE DISTANCE
- TYPE C1.

INTO CONCRETE BLOCK
1 1/4" MIN. EMBED
2 1/2" MIN. EDGE DISTANCE

NOTES:

WHEN EDGE DISTANCE EQUAL OR GREATER THAN 2" AND LESS THAN MIN. EDGE DISTANCE SPECIFIED ABOVE THE ANCHOR SPACE IN ANCHOR CHARTS ON THE DRAWINGS MUST MULTIPLY BY FOLLOWING REDUCTION FACTOR:

ANCHOR TYPE A, & A1: REDUCTION FACTOR = 0.77

ANCHOR TYPE B & B1: REDUCTION FACTOR = 0.50

ANCHOR TYPE C & C1: REDUCTION FACTOR = 0.77

PLEASE NOTE THIS INSTALLATION ARE ONLY VALID FOR THE RESULTING ANCHOR SPACE EQUAL OR GREATER THAN 3".

LIMITATIONS OF USE	
A-	THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.
B-	CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.
C-	THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
D-	SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D.
E-	THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

IRIS WANG, P.E.
FLORIDA REGISTRATION
FL #55983
C.A.N. 559877

STATE OF
FLORIDA
PROFESSIONAL ENGINEER

November 13th, 2023

REVISIONS

NO.	DATE	DESCRIPTION
R3	11.09.2023	FBC 2023

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

12781 Miramar Parkway #301
Miramar, FL 33027

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mcy@mcyengineering.com

PERFORMANCE SYSTEM 2 ALUMINUM ACCORDION SHUTTER - LMI

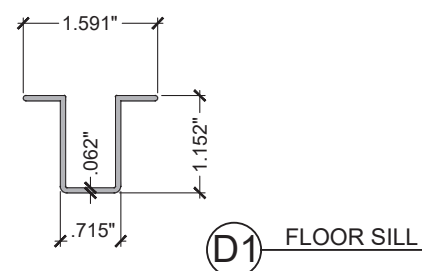
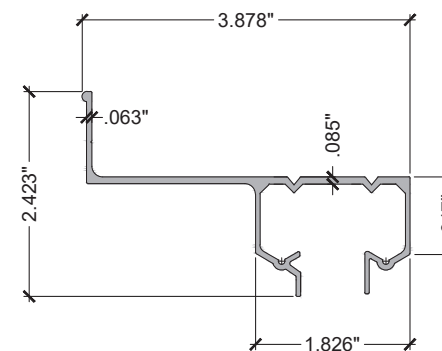
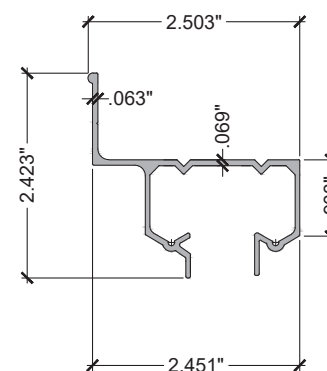
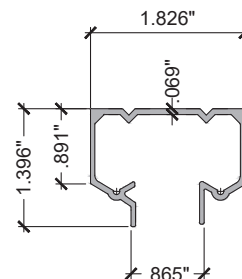
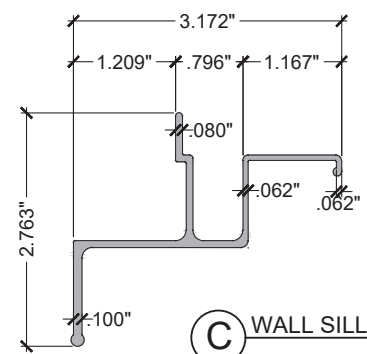
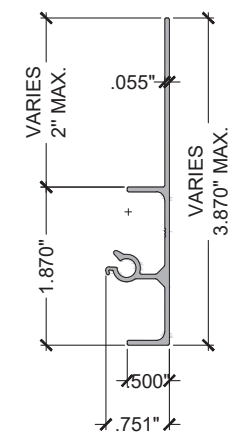
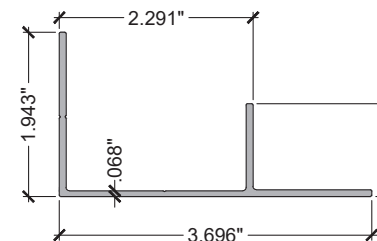
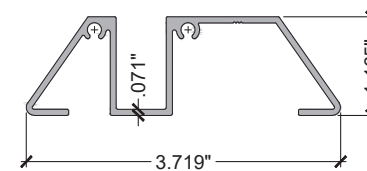
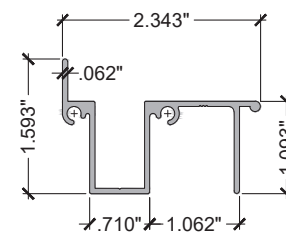
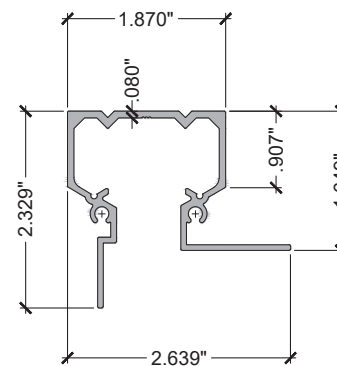
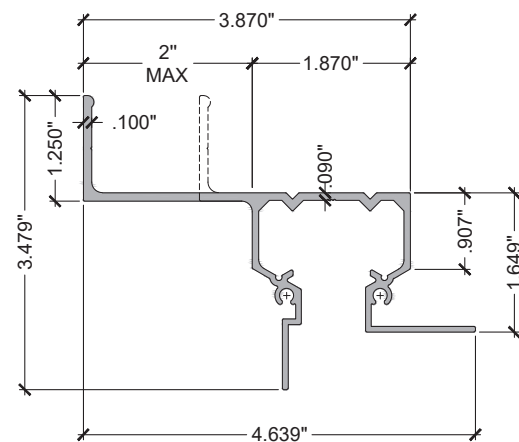
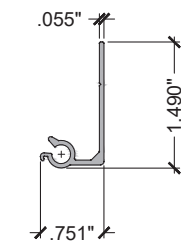
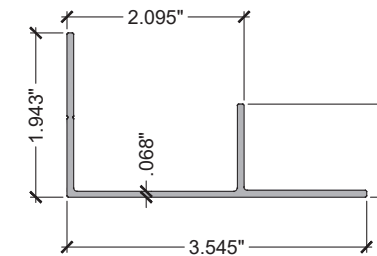
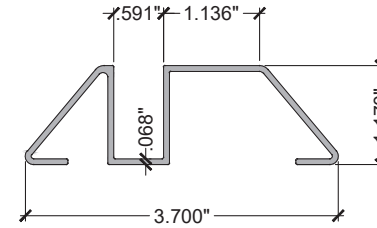
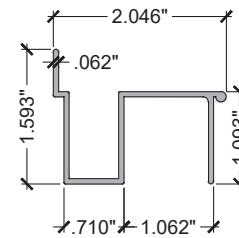
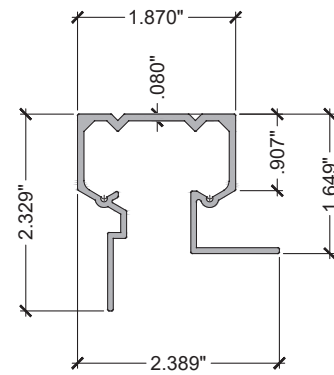
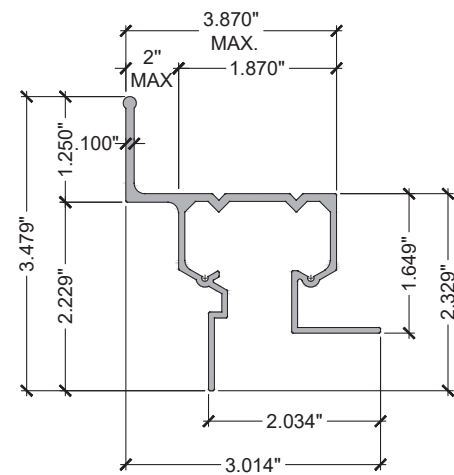
Aluminum Technologies Corporation, Inc.
2205 West 80th Street, Bay 3
Hialeah, FL 33016
Fax: (305) 362-2024

FLORIDA APPROVAL
#38159

DATE	11.09.2023
SCALE	AS SHOWN
DRAWN	James
PROJECT	

DRAWING NO.
AD21-06

1 OF 11



COMPONENTS



REVISIONS	
NO.	DESCRIPTION
R3	11.09.2023 FBC 2023



71-0117
Engineering

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

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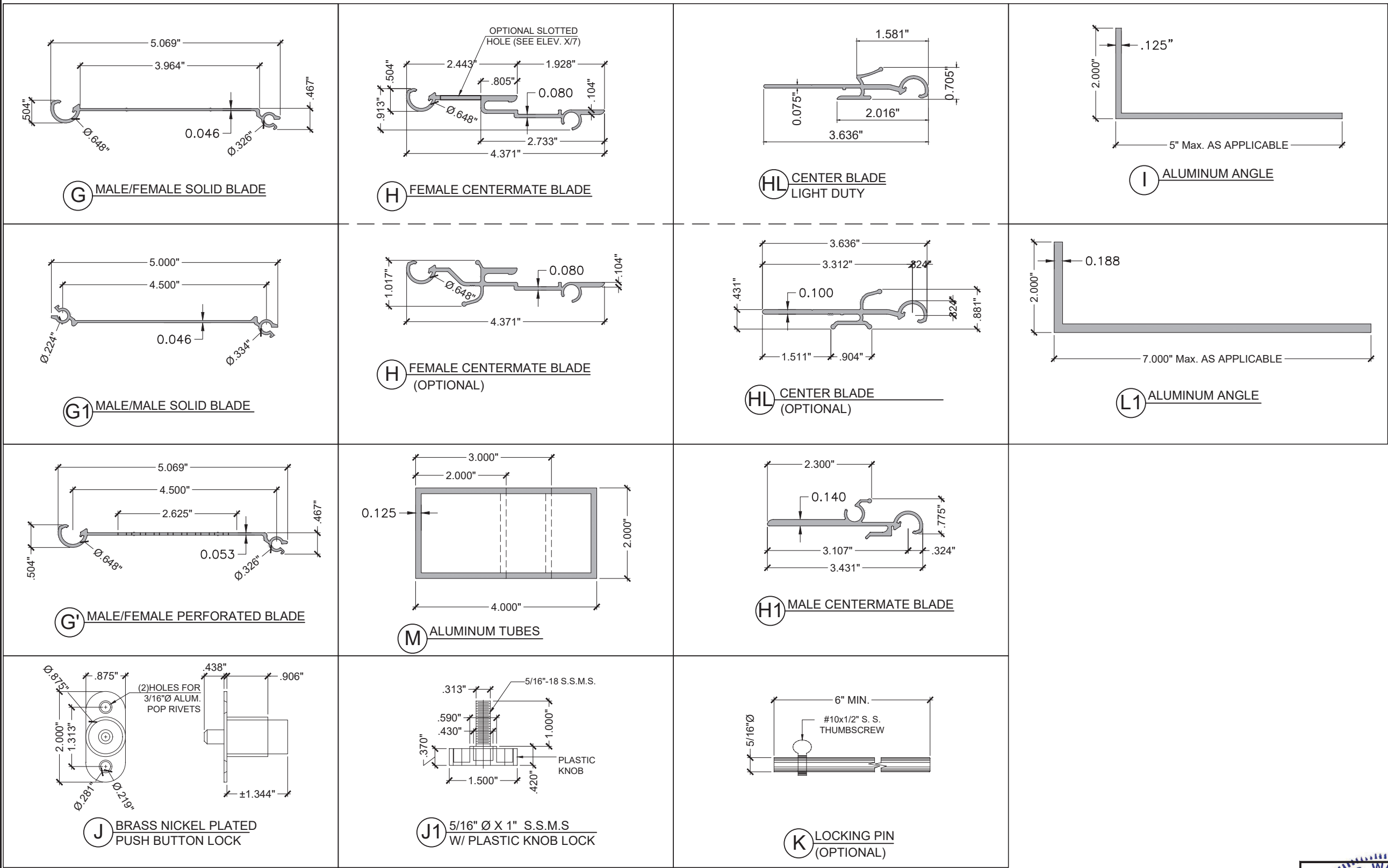
PERFORMANCE SYSTEM 2 ALUMINUM ACCORDION SHUTTER - LMI

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2205 West 80th Street, Bay 3
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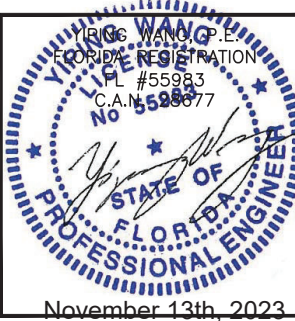
FLORIDA APPROVAL	
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2 OF 11



COMPONENTS



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	R3 11.09.2023	FBC 2023

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INC.

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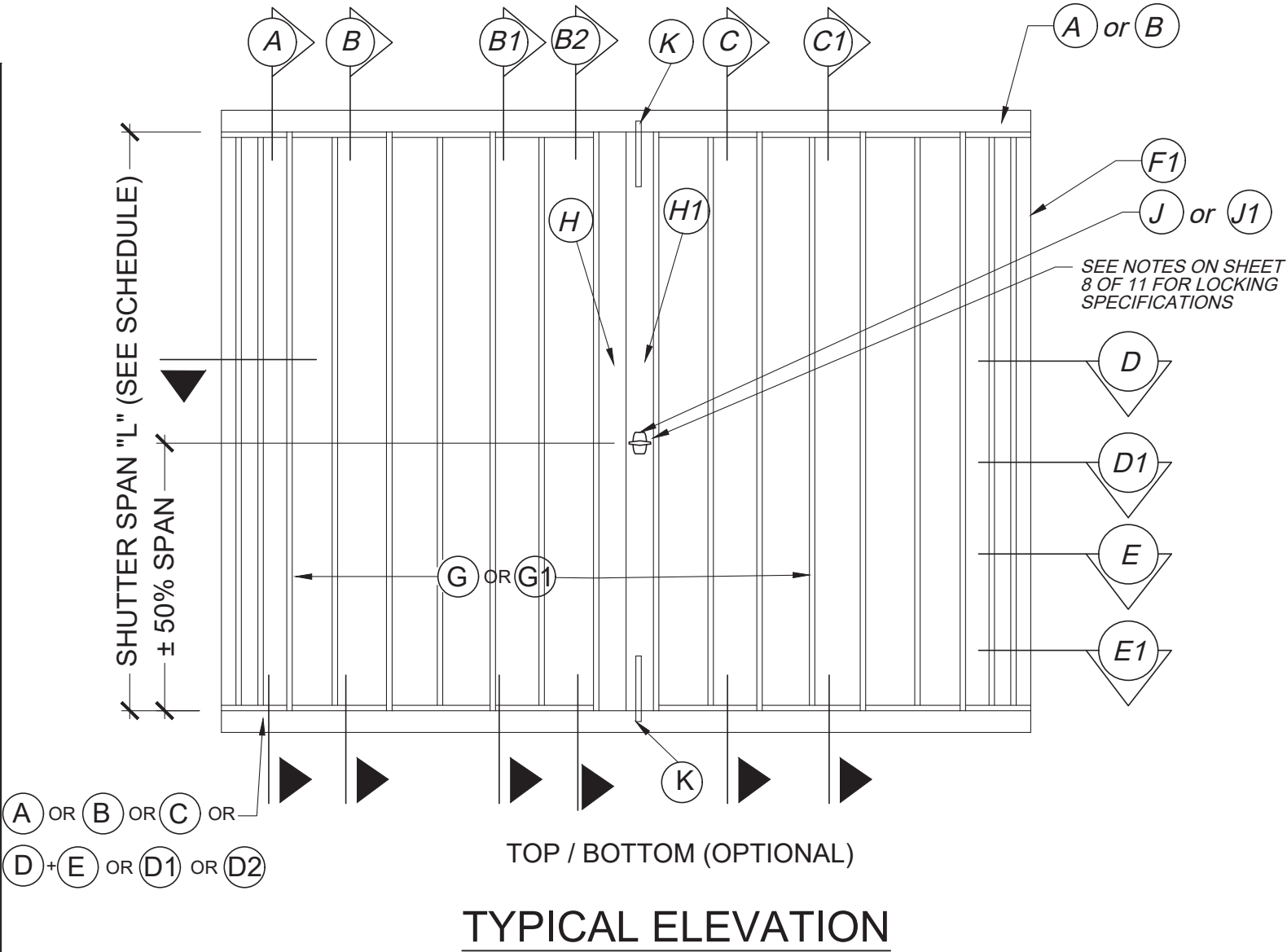
2205 West 80th Street, Bay 3
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DRAWING NO. AD21-06	
3 OF 11	

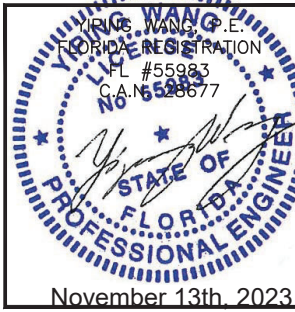
MAXIMUM DESIGN PRESSURE RATING "Pd" (PSF)
AND CORRESPONDING MAXIMUM SPAN "L" SCHEDULE.

MAXIMUM DESIGN LOAD "Pd" (PSF)	MAXIMUM SHUTTER SPAN "L" FOR ALL SECTIONS		HVHZ MINIMUM SEPARATION TO GLASS (in.) ALL SECTIONS	NON-HVHZ NO MIN. SEPARATION IS REQUIRED
	VS POSITIVE LOAD	VS NEGATIVE LOAD		
40	13'-2"	14'-1"	3.0	-
45	12'-9"	14'-1"	3.0	-
50	12'-5"	14'-1"	3.0	-
55	12'-2"	13'-5"	3.0	-
60	11'-11"	12'-10"	3.0	-
65	11'-8"	12'-4"	3.0	-
70	11'-5"	11'-11"	3.0	-
75	11'-3"	11'-6"	3.0	-
80	11'-1"	11'-2"	3.0	-
85	10'-10"	10'-10"	3.0	-
90	10'-6"	10'-6"	3.0	-
95	10'-3"	10'-3"	2.875	-
100	10'	10'	2.875	-
105	9'-9"	9'-9"	2.625	-
110	9'-6"	9'-6"	2.5	-
115	9'-4"	9'-4"	2.5	-
120	9'-1"	9'-1"	2.5	-
125	8'-10"	8'-10"	2.5	-
130	8'-6"	8'-6"	2.375	-
135	-	8'-2"	2.375	-
140	-	7'-11"	2.375	-
145	-	7'-7"	2.375	-
150	-	7'-4"	2.375	-
155	-	7'-2"	2.375	-
160	-	6'-11"	2.375	-
165	-	6'-8"	2.375	-
170	-	6'-6"	2.375	-
175	-	6'-4"	2.375	-
180	-	6'-2"	2.375	-
185	-	6'	2.375	-
190	-	5'-10"	2.375	-
195	-	5'-8"	2.375	-



INSTRUCTION:

- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON VELOCITY, BUILDING HEIGHT, WIND ZONE USING APPLICABLY ASCE 7 STANDARD.
- STEP 2** CHECK SHUTTER CAPACITY FOR A GIVEN SHUTTER SPAN USING CHARTS ON SHEET 4. MAX. DESIGN LOAD FROM CHART HAS TO BE GREATER THAN DESIGN WIND LOAD FROM STEP 1.
- STEP 3** USING CHARTS ON SHEET 5 THRU SHEET 11 SELECT ANCHOR TYPE AND SPACING BASED ON DESIGN LOAD AND SHUTTER SPAN FOR THE ANCHOR DETAIL USED.



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FLORIDA APPROVAL

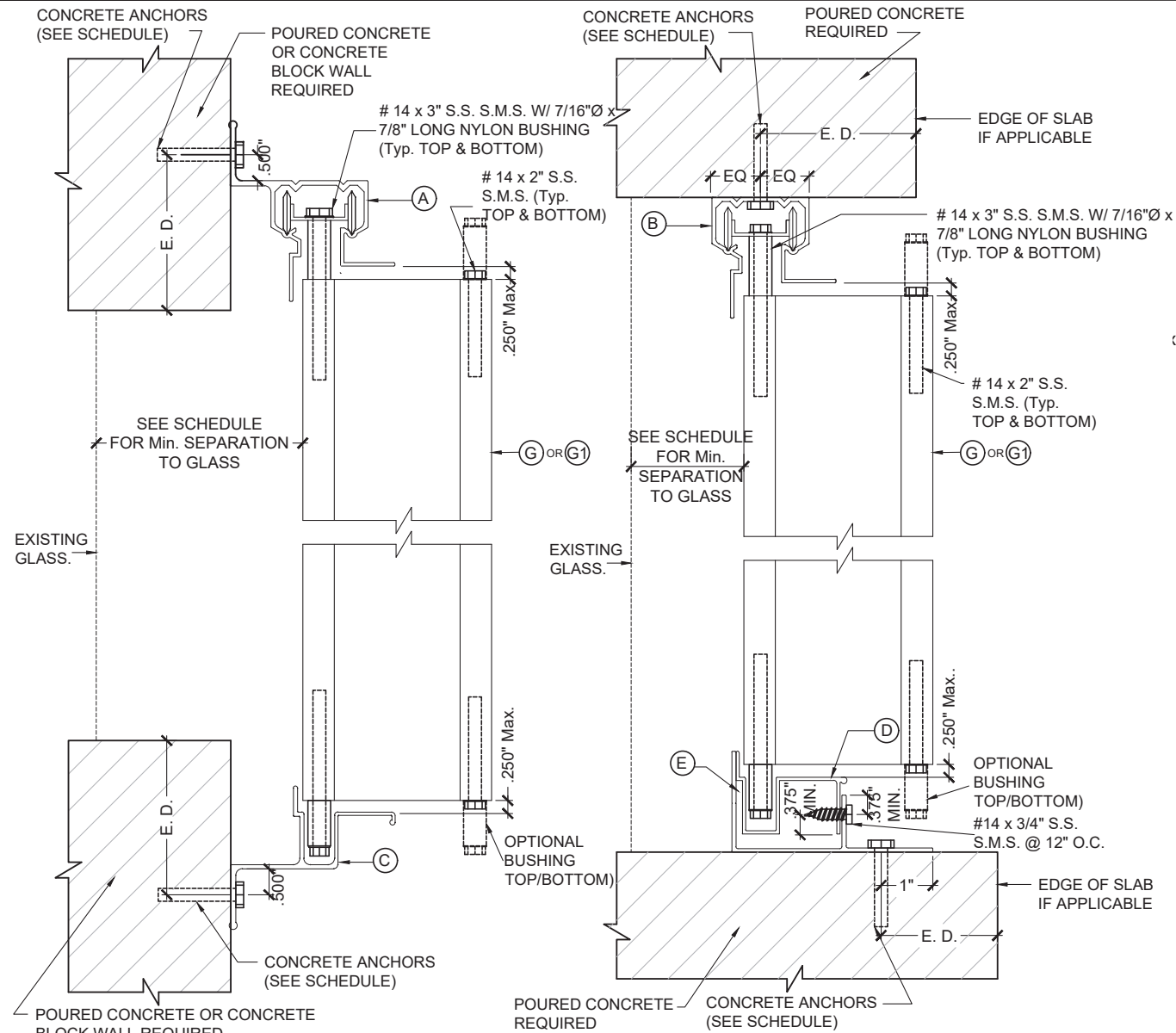
#38159

DATE	11.09.2023
SCALE	AS SHOWN
DRAWN	James
PROJECT	

DRAWING NO.

AD21-06

4 OF 11

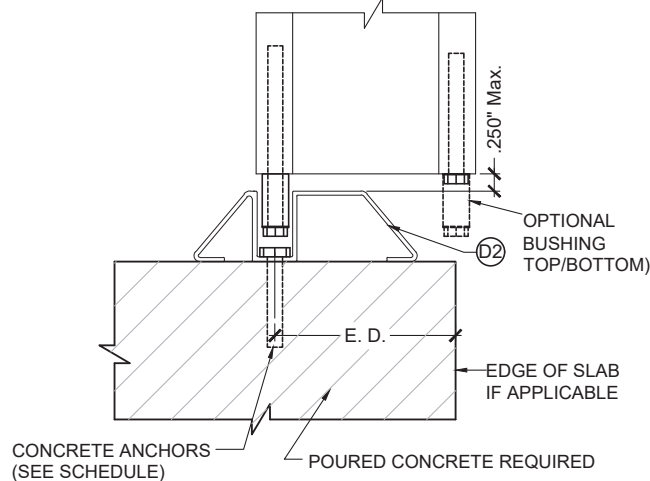


WALL MOUNTING INSTALLATION

CEILING & FLOOR MOUNTING INSTALLATION

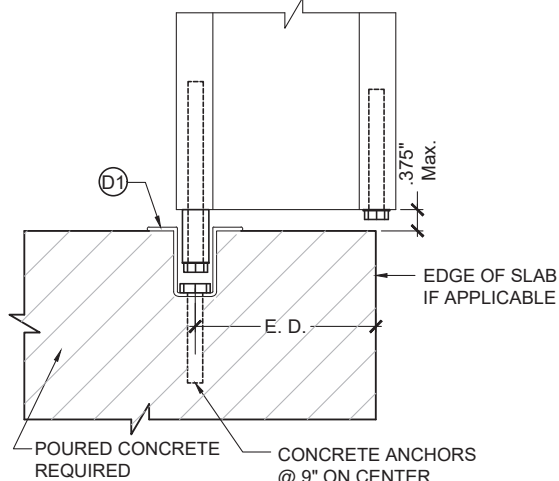
SECTION A
SCALE : 3/8" = 1"

SECTION B
SCALE : 3/8" = 1"



FLOOR MOUNTING INSTALLATION

SECTION B1
SCALE : 3/8" = 1"



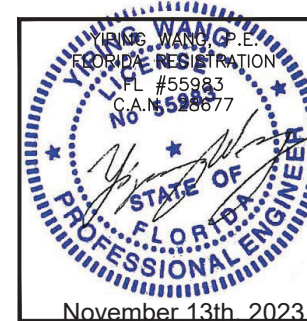
FLOOR MOUNTING INSTALLATION

SECTION B2
SCALE : 3/8" = 1"

MAXIMUM DESIGN PRESSURE RATING "Pd" (PSF) AND CORRESPONDING
MAXIMUM ANCHOR SPACING (in.) SCHEDULE. +

MAXIMUM DESIGN LOAD "Pd" (PSF)	SHUTTER SPAN (INCH)	SECTION A (TOP/BOTTOM)					SECTION B (TOP/BOTTOM) B1 (BOTTOM)		
		SUBSTRATE CONCRETE			SUBSTRATE BLOCK		SUBSTRATE CONCRETE		
		ANCHOR TYPE A	ANCHOR TYPE B	ANCHOR TYPE C	ANCHOR TYPE B1	ANCHOR TYPE C1	ANCHOR TYPE A	ANCHOR TYPE B	ANCHOR TYPE C
60	60"	9	9	9	4	4.6	6	6	6
	78	9	9	9	3	3.5	6	6	6
	96	8	7.5	8	-	-	6	6	6
	120"	6	6	6.5	-	-	6	6	6
	144"	5	5	5.5	-	-	6	6	6
65	154"	5	4.5	5	-	-	6	6	6
	60"	9	9	9	3.5	4.2	6	6	6
	78	9	8.5	9	-	3.2	6	6	6
	96	7	7	7.5	-	-	6	6	6
	120"	5.5	5.5	6	-	-	6	6	6
70	148"	4.5	4.5	4.5	-	-	6	5.5	6
	60"	9	9	9	3.5	3.9	6	6	6
	78	8	8	8.5	-	3	6	6	6
	96	6.5	6.5	7	-	-	6	6	6
	120"	5.5	5	5.5	-	-	6	6	6
80	143"	4.5	4.5	4.5	-	-	5.5	5.5	6
	60"	9	9	9	3	3.4	6	6	6
	78	7	7	7.5	-	-	6	6	6
	96	6	5.5	6	-	-	6	6	6
	120"	4.5	4.5	5	-	-	6	6	6
100	134"	4	4	4.5	-	-	5.5	5	6
	60"	7.5	7.5	8	-	-	6	6	6
	78	5.5	5.5	6	-	-	6	6	6
	96	4.5	4.5	5	-	-	6	6	6
	120"	3.5	3.5	4	-	-	5	4.5	6
195	60"	3.5	3.5	4	-	-	5	4.5	6
	66"	3.5	3	3.5	-	-	4.5	4	5.5

NOTE:
FOR LIGHT DUTY SHUTTER ON SHEET 10, MAX. SPACING SHOULD BE LIMITED TO 6" O.C.



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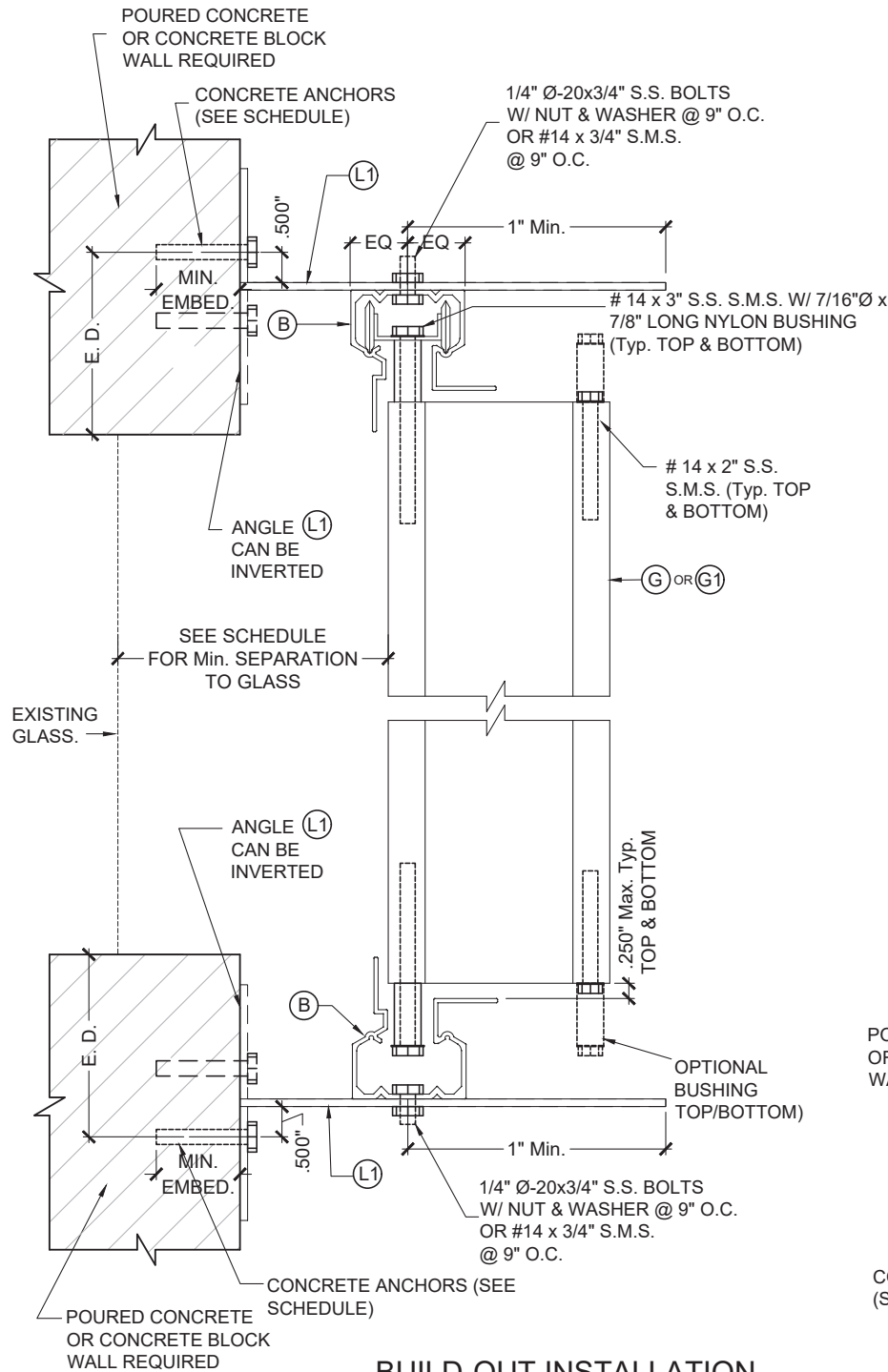
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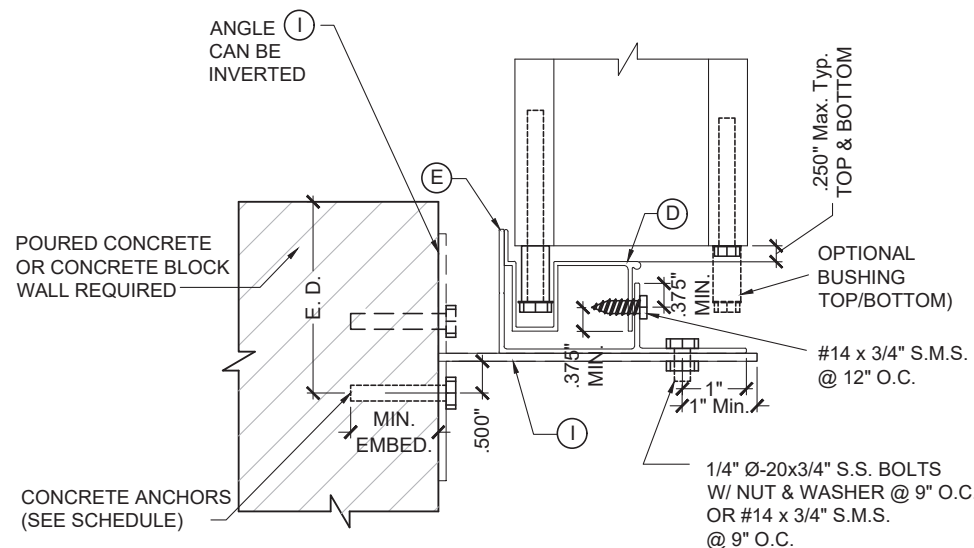
PERFORMANCE SYSTEM 2 ALUMINUM ACCORDION SHUTTER - LMI

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FLORIDA APPROVAL #38159	DATE 11.09.2023
SCALE AS SHOWN	DRAWN James
DRAWING NO. AD21-06	PROJECT
5 OF 11	



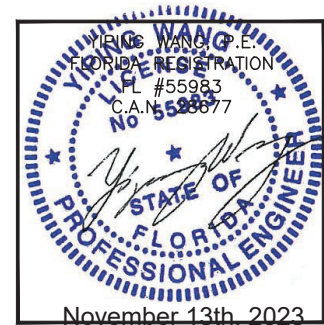
**BUILD-OUT INSTALLATION
SECTION C**



**BUILD-OUT INSTALLATION
SECTION C1**

**MAXIMUM DESIGN PRESSURE RATING "Pd" (PSF) AND CORRESPONDING
MAXIMUM ANCHOR SPACING (in.) SCHEDULE. +**

MAXIMUM DESIGN LOAD "Pd" (PSF)	SHUTTER SPAN (INCH)	SECTION C TOP/BOTTOM						SECTION C1 BOTTOM					
		SUBSTRATE CONCRETE			SUBSTRATE BLOCK			SUBSTRATE CONCRETE			SUBSTRATE BLOCK		
		ANCHOR TYPE A	ANCHOR TYPE B	ANCHOR TYPE C	ANCHOR TYPE A1	ANCHOR TYPE B1	ANCHOR TYPE C1	ANCHOR TYPE A	ANCHOR TYPE B	ANCHOR TYPE C	ANCHOR TYPE A1	ANCHOR TYPE B1	ANCHOR TYPE C1
60	60"	6	6	6	4	5.5	8.1	6	6	6	4	6	8.1
	78"	6	6	6	3	4.5	6.3	6	6	6	3	4.5	6.3
	96"	6	6	6	-	3.5	5.1	6	6	6	-	4	5.1
	120"	6	6	6	-	-	4.1	6	6	6	-	3	4.1
	144"	6	6	6	-	-	3.4	6	6	6	-	-	3.4
65	154"	6	6	6	-	-	3.2	6	6	6	-	-	3.2
	60"	6	6	6	3.7	5	7.5	6	6	6	3.7	5.5	7.5
	78"	6	6	6	-	4	5.8	6	6	6	-	4.5	5.8
	96"	6	6	6	-	3	4.7	6	6	6	-	3.5	4.7
	120"	6	6	6	-	-	3.8	6	6	6	-	-	3.8
70	148"	6	6	6	-	-	3.1	6	6	6	-	-	3.1
	60"	6	6	6	3.4	5	7	6	6	6	3.4	5.5	7
	78"	6	6	6	-	3.5	5.4	6	6	6	-	4	5.4
	96"	6	6	6	-	3	4.4	6	6	6	-	3	4.4
	120"	6	6	6	-	-	3.5	6	6	6	-	-	3.5
80	143"	6	6	6	-	-	-	6	6	6	-	-	-
	60"	6	6	6	-	4	6.1	6	6	6	-	4.5	6.1
	78"	6	6	6	-	3	4.7	6	6	6	-	3.5	4.7
	96"	6	6	6	-	-	3.8	6	6	6	-	3	3.8
	120"	6	6	6	-	-	3.1	6	6	6	-	-	3.1
100	134"	6	5.5	6	-	-	-	6	6	6	-	-	-
	60"	6	6		-	3.5	4.9	6	6	6	-	3.5	4.9
	78"	6	6		-	-	3.8	6	6	6	-	-	3.8
	96"	6	6		-	-	3.1	6	6	6	-	-	3.1
	120"	5	5	5.5	-	-	-	5	5.5	6	-	-	-
195	60"	5	5	5.5	-	-	-	5	5.5	6	-	-	-
	66"	4.5	4.5	5	-	-	-	5	5	5.5	-	-	-



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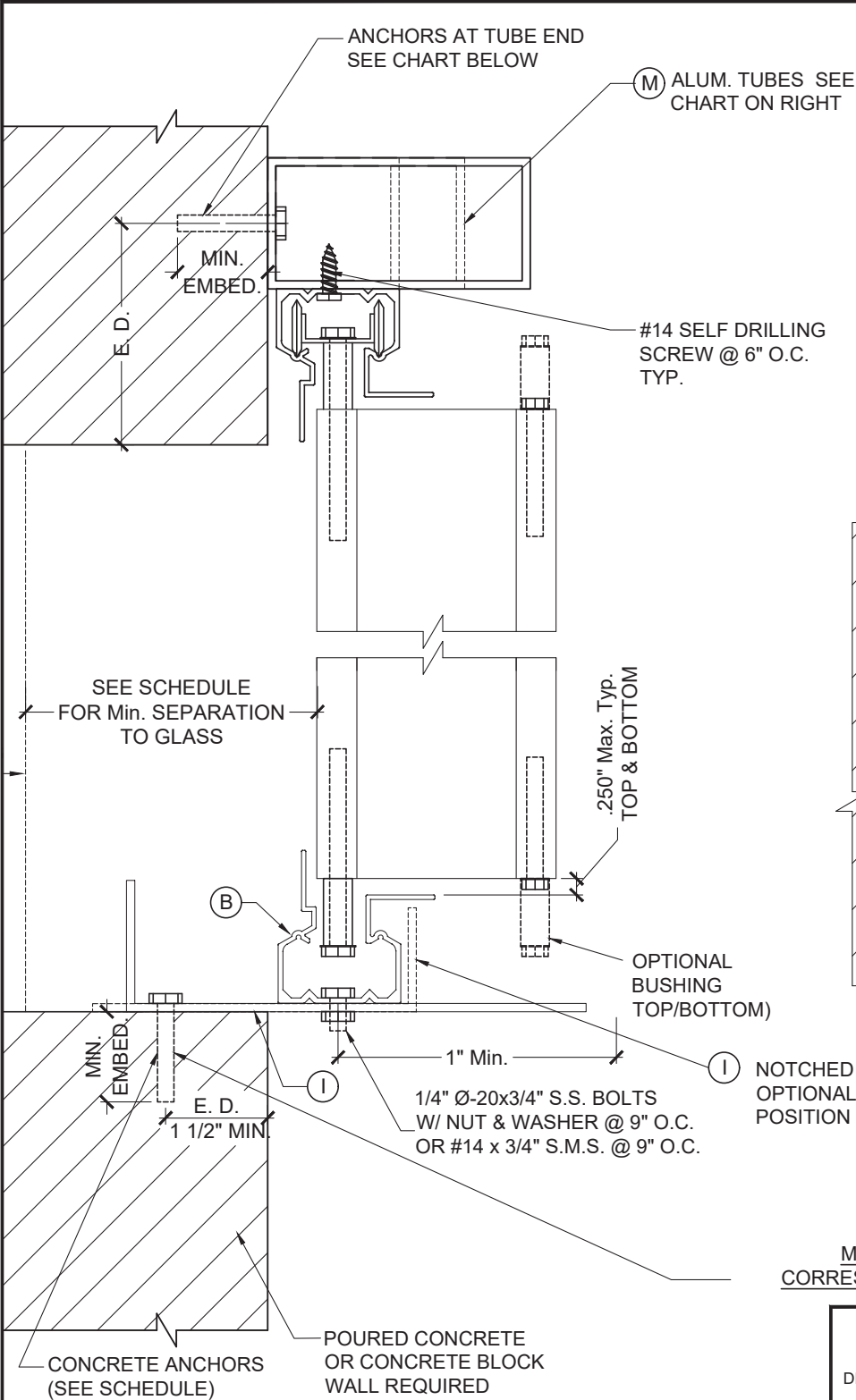
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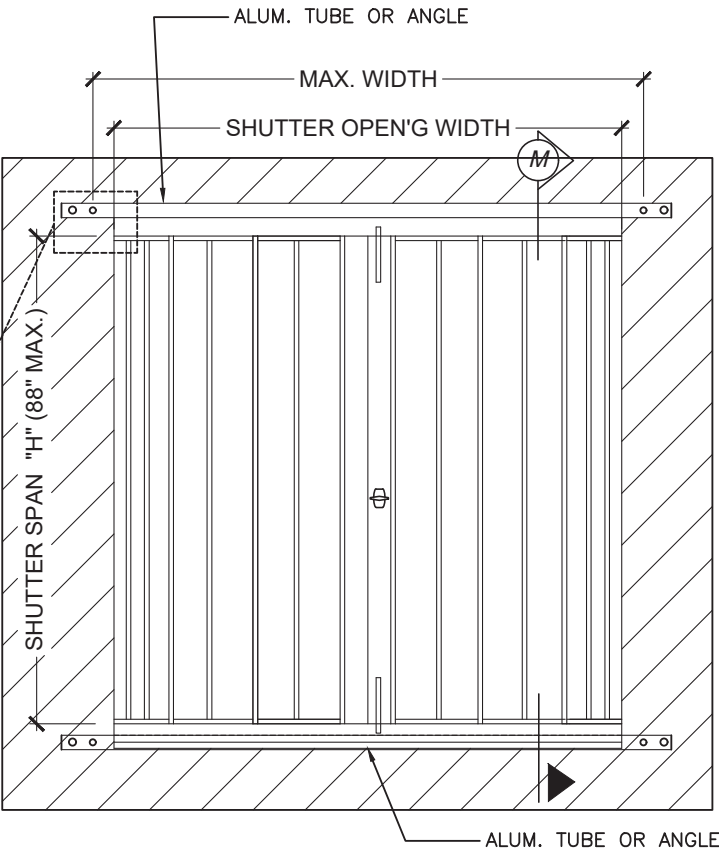
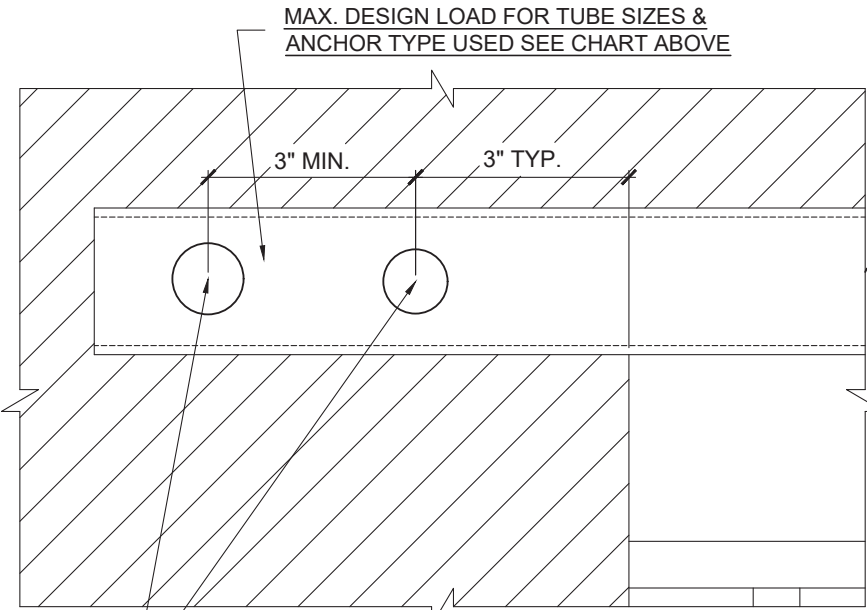
PERFORMANCE SYSTEM 2 ALUMINUM ACCORDION SHUTTER - LMI

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2205 West 80th Street, Bay 3
Hialeah, FL 33016
Fax: (305) 362-2024

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ALUM. TUBE SIZE	OPEN'G WIDTH	MAX. HEIGHT	DESIGN LOAD (PSF)	
			ANCHOR TYPE "A"	ANCHOR TYPE "C"
2"x2"x1/8"	42"	88"	65	65
2"x3"x1/8"	60"	88"	65	65
2"x4"x1/8"	78"	88"	57.3	62
	78"	84"	60	65
	78"	77"	65	65

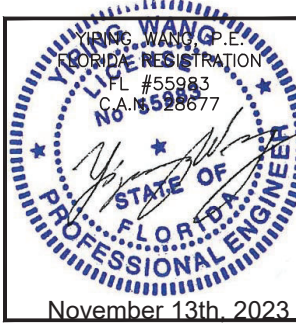


TOP / BOTTOM (OPTIONAL)

MAXIMUM DESIGN PRESSURE RATING "Pd" (PSF) AND
CORRESPONDING MAXIMUM ANCHOR SPACING (in.) SCHEDULE. +

MAXIMUM DESIGN LOAD "Pd" (PSF)	SHUTTER SPAN (INCH)	SECTION M BOTTOM	
		SUBSTRATE CONCRETE	
		ANCHOR SPACING (in.)	
65	60"	ANCHOR TYPE A	ANCHOR TYPE C
	72"	8.5	9
	84"	7	7.5
	88"	6	6.5
65	88"	5.5	6

BUILD-OUT INSTALLATION
SECTION M



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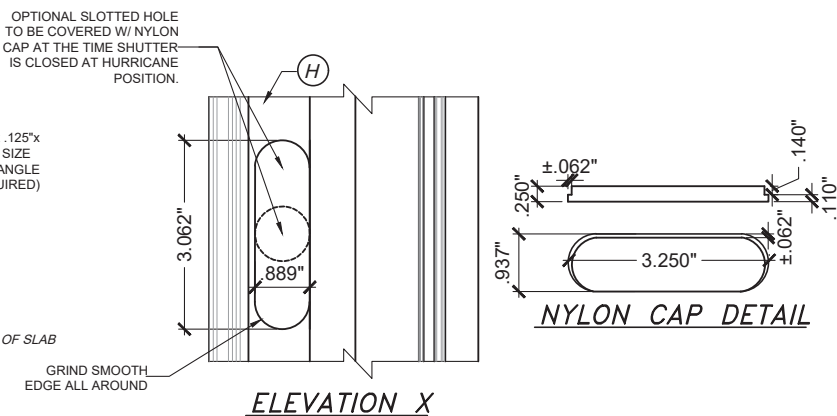
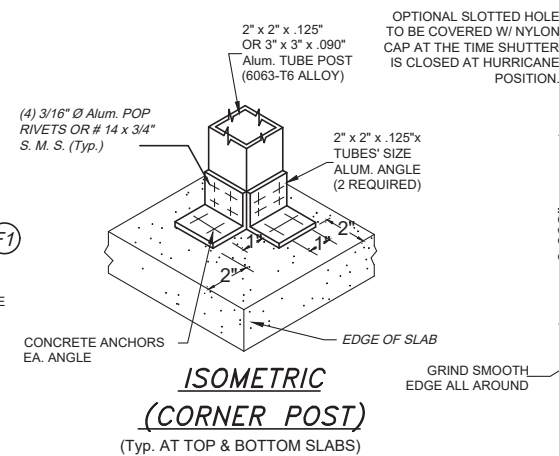
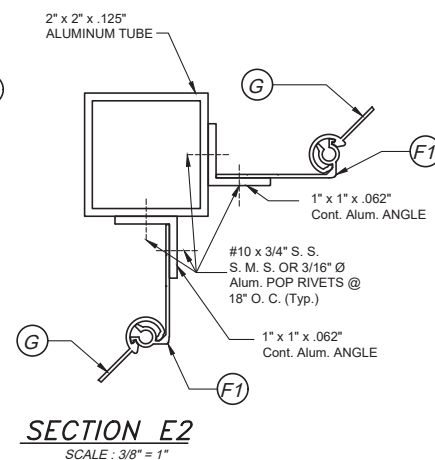
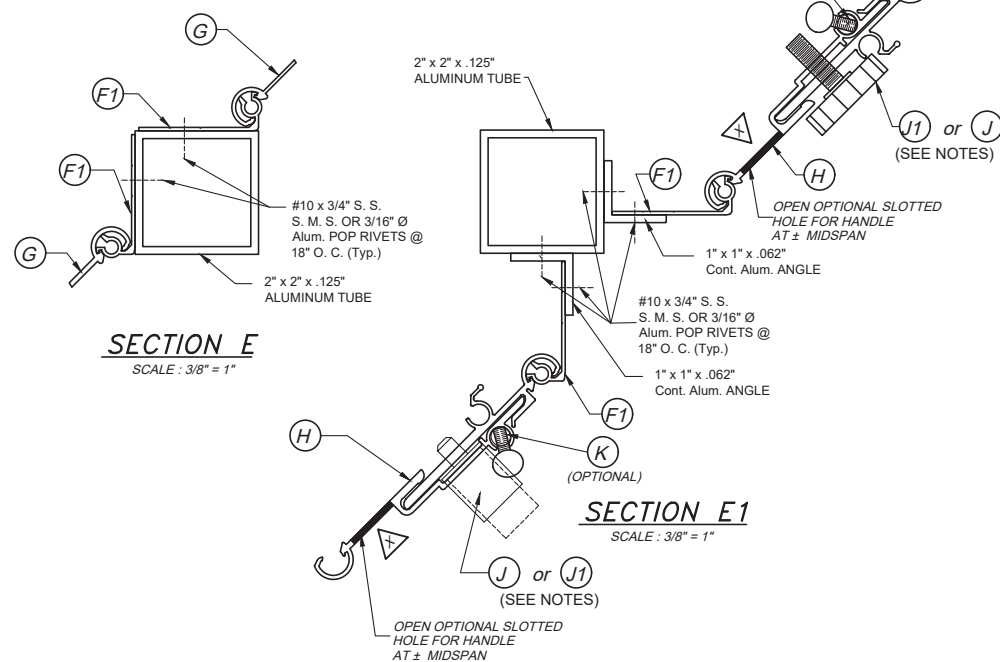
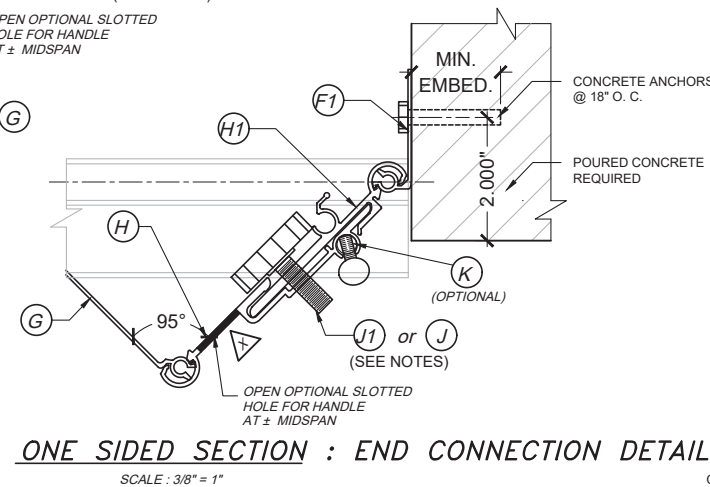
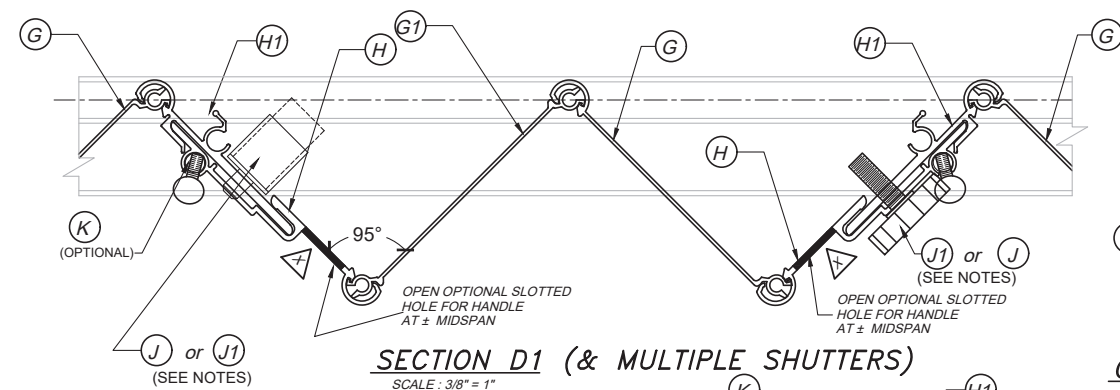
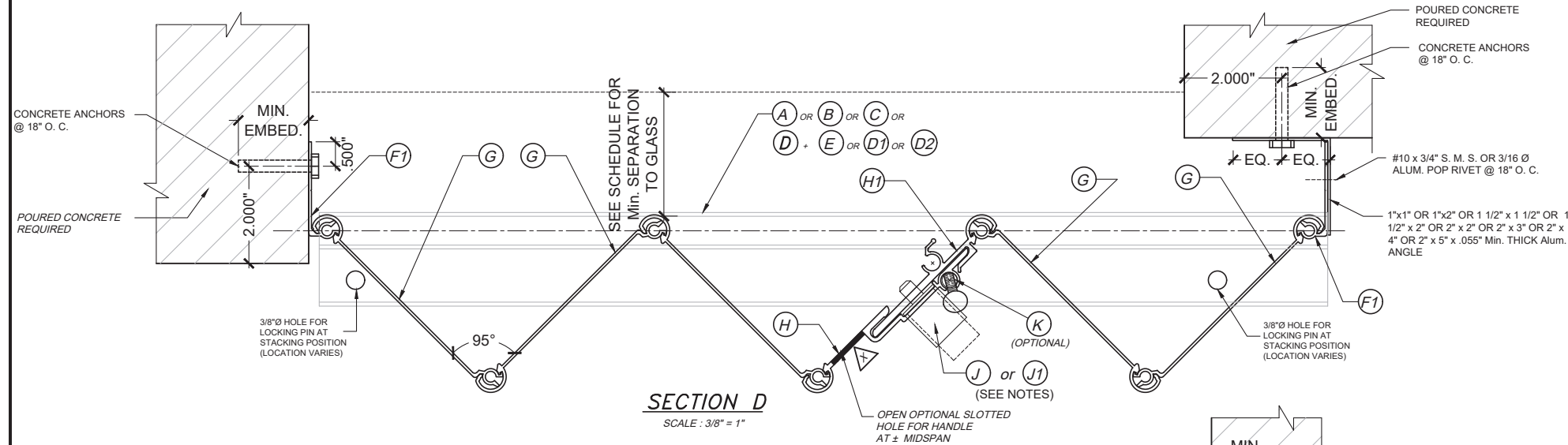
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NOTES FOR LOCKING OF (H) & (H1)

1-PUSH BOTTOM LOCK (J) MAY BE USED FOR INSTALLATIONS SECURED FROM THE OUTSIDE OR INSIDE OF SHUTTER. WHEN INSTALLING (J) FROM THE OUTSIDE, A 7/8"Ø HOLE SHALL BE DRILLED AT (H) AND (J) MUST BE RIVETED FROM THE BACK OF (H) TO THE FRONT W/ (2)3/16"Ø ALUM. POP RIVETS. A 3/8"Ø HOLE MUST THEN BE DRILLED AT (H1) TO ALLOW FOR (J)'S PIN TO PASS THRU. WHEN INSTALLING (J) FROM THE INSIDE, (J) MUST BE RIVETED TO (H1) W/ (2)3/16"Ø ALUM. POP RIVETS. A 3/8"Ø HOLE MUST THEN BE DRILLED THRU (H) AND (H1) TO ALLOW FOR (J)'S PIN TO PASS THRU.

2-5/16"x1" LOCK (J1) MAY BE USED
ALTERNATIVELY TO (J) LOCK FOR
INSTALLATIONS SECURED FROM THE OUTSIDE
OR INSIDE OF SHUTTER. IN THIS CASE, A 5/16"Ø
HOLE SHALL BE DRILLED THRU (H) AND (H1).
HOLE DRILLED TO (H1) SHALL BE TAPPED TO
ACCEPT 18 THREADS PER INCH MACHINE
SCREW.

NOTE:
END CONDITIONS SHOWN CAN BE INTERCHANGEABLE.

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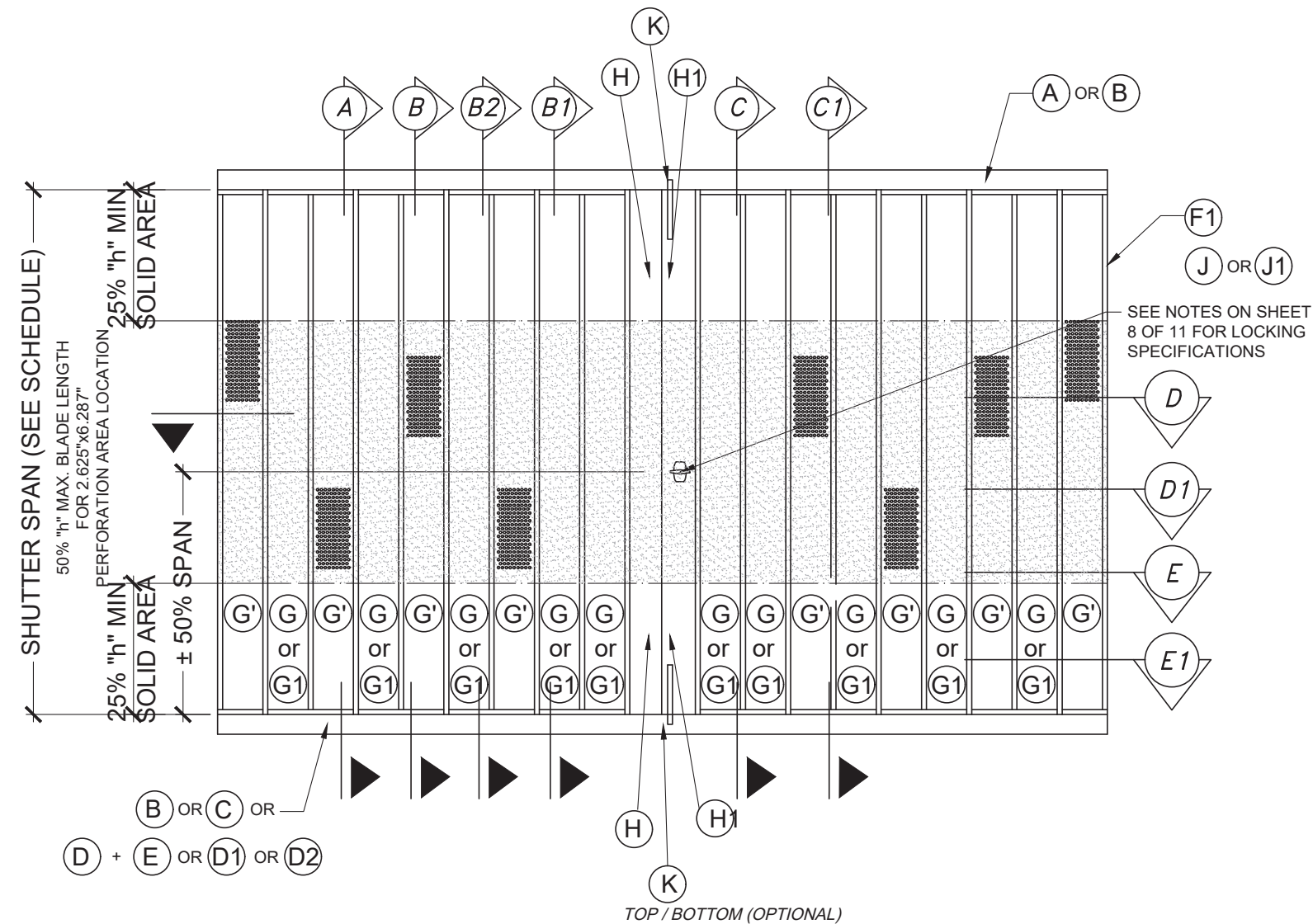
DRAWING NO.
AD21-06

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YIPING WANG P.E.
FLORIDA REGISTRATION
FL #55983
C.A.N. 528677

STATE OF
FLORIDA
PROFESSIONAL ENGINEER

November 13th, 2023



TYPICAL ELEVATION



TYPICAL SHUTTER PLAN

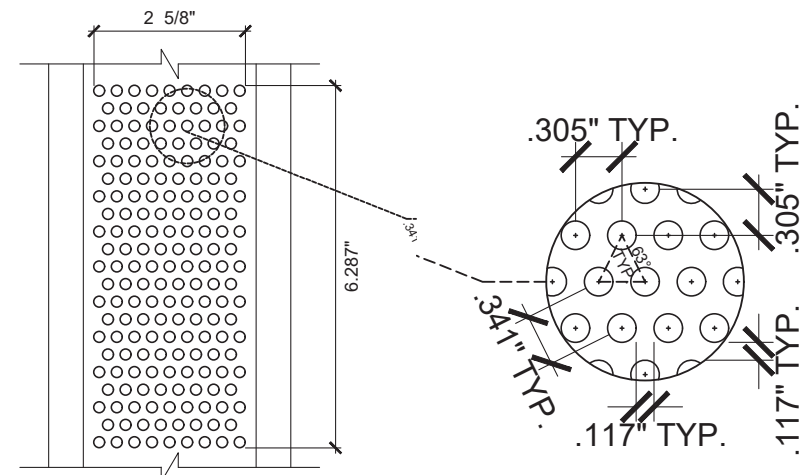
GENERAL LIMITATIONS AND CONDITIONS OF USE FOR G OR G1 BLADE ACCORDIAN SHUTTER SYSTEM WORKING IN UNISON WITH G' BLADES.

1. MAXIMUM SHUTTER SPAN AND PRESSURE RATING, MAXIMUM ANCHOR SPACING AND MINIMUM SEPARATION TO GLASS FOR G' AND G1' WORKING IN UNISON WITH G AND G1 ARE AS PER SCHEDULES ON SHEET 4, 5, 6 & 10.
2. MAXIMUM PERFORATION AREA AT G', G1' IS $\pm 2.625" \times 6.28"$ AND MUST BE LOCATED WITHIN THE CENTRAL 50% OF THE BLADE SPAN.

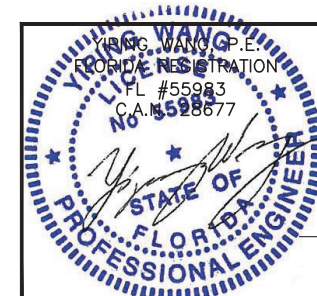
PERFORATED BLADES G, G1 MUST BE SOLID AT THE TOP AND BOTTOM 25% OF BLADES SPAN.
3. PERFORATED BLADES G', G1' SHALL BE INSTALLED AT EVERY OTHER BLADE (FREQUENCY).
4. CENTERMATES H, H1 MUST ALWAYS BE ACCOMPANIED BY TWO SOLID BLADES G, G1 AT EITHER SIDE OF EACH CENTERMATE.
5. STARTERS AND CENTERMATES MUST BE ALWAYS SOLID.
6. STARTERS CONNECTION TO EXISTING BUILDING OR TO END/CORNER TUBES MUST BE AS PER DETAILS INDICATED ON SHEET 8.



SECTION S-S THRU G MALE/FEMALE BLADE



TYPICAL G' PERFORATED BLADE ELEVATION



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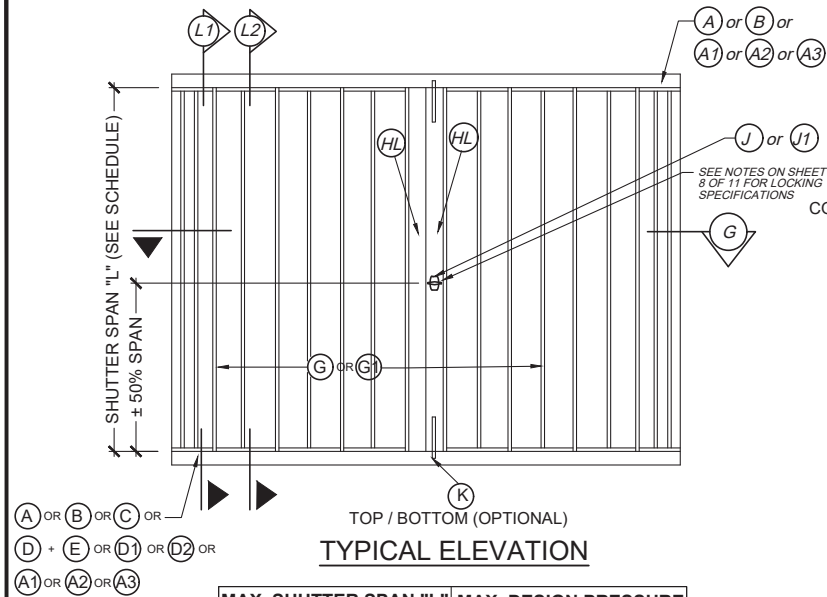
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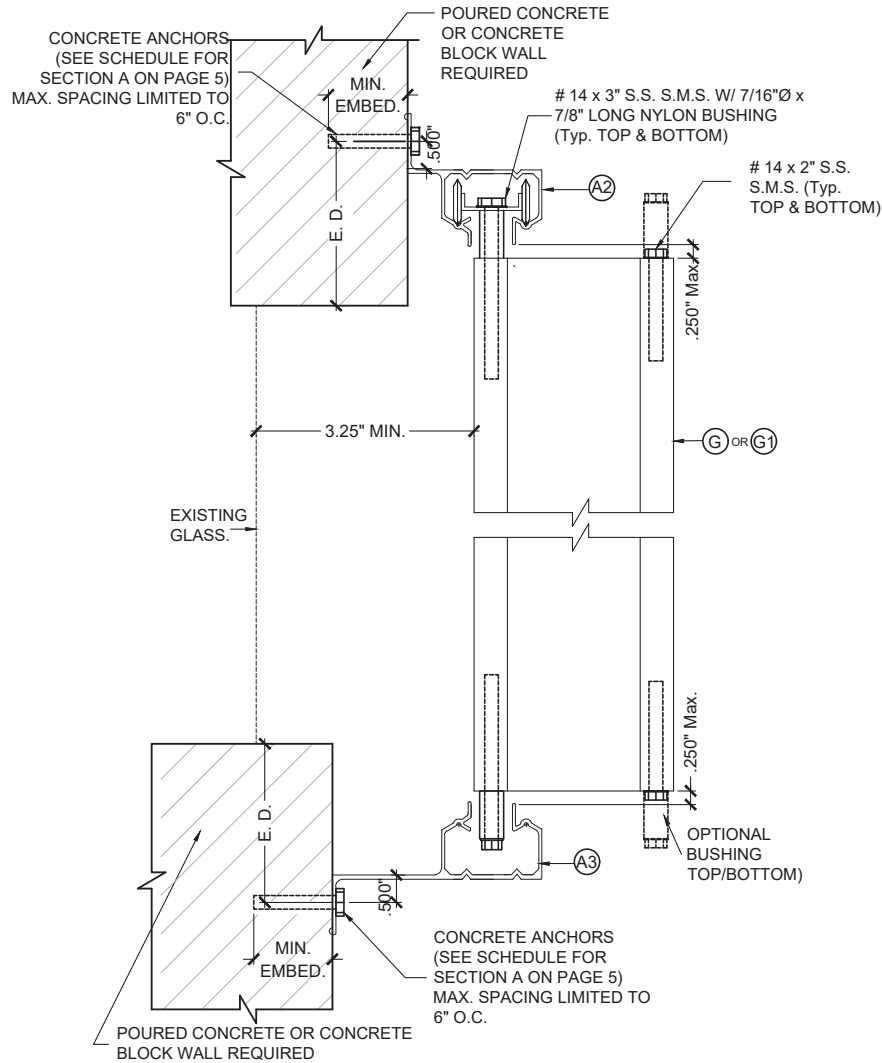
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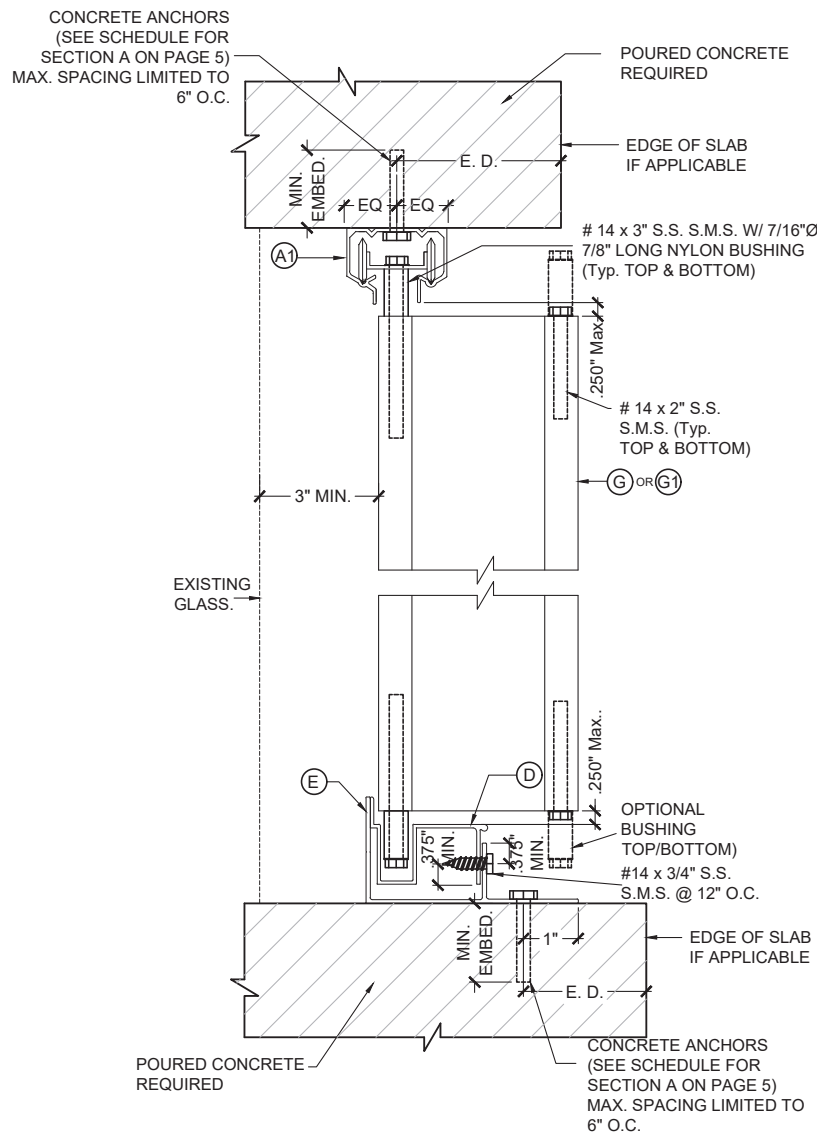
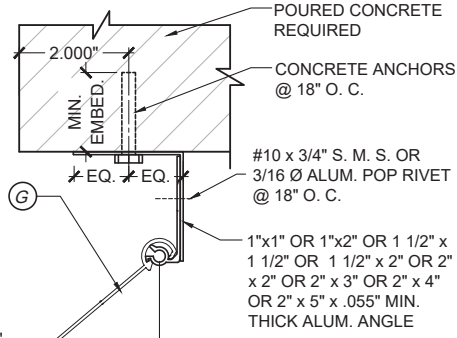
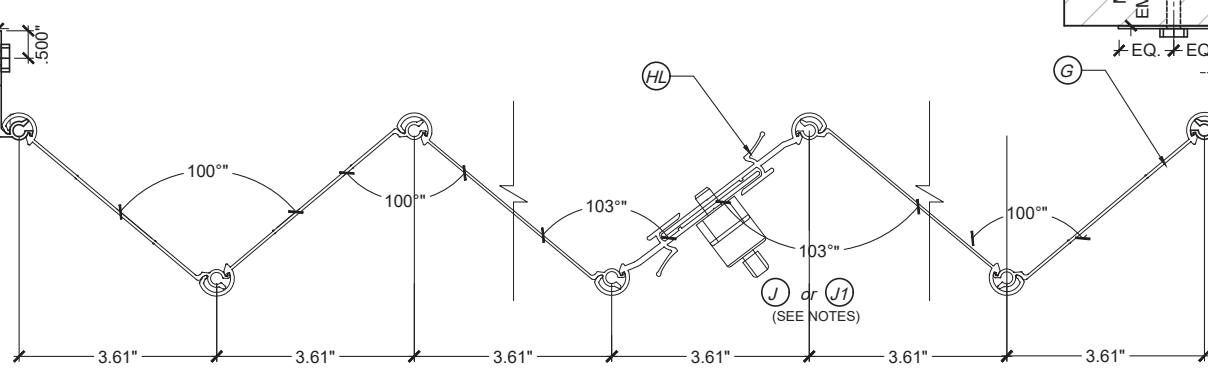
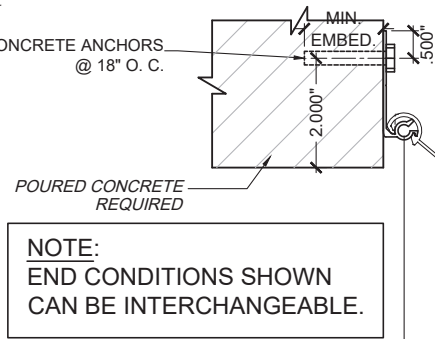


MAX. SHUTTER SPAN "L"	MAX. DESIGN PRESSURE
60"	+/- 75 PSF
108"	+/- 70 PSF

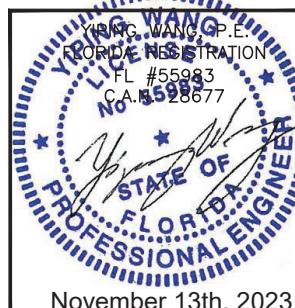


SECTION L1
SCALE : 3/8" = 1"

LIGHT DUTY SHUTTER WALL MOUNT, CEILING AND FLOOR INSTALLATIONS W/ A1, A2, A3 TRACKS, CENTERMATE HL & BLADES G, G1



SECTION L2
SCALE : 3/8" = 1"



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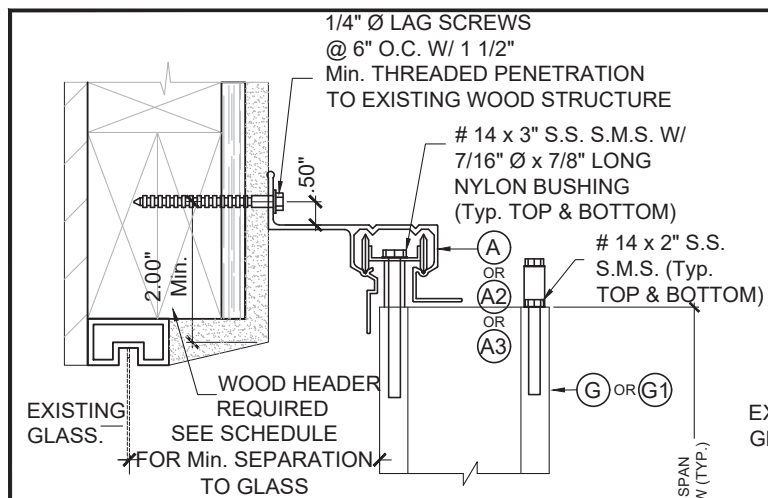
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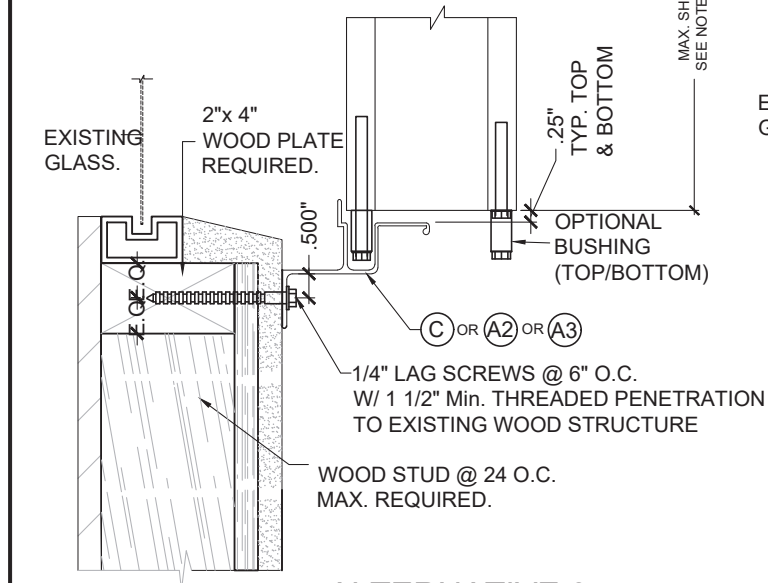
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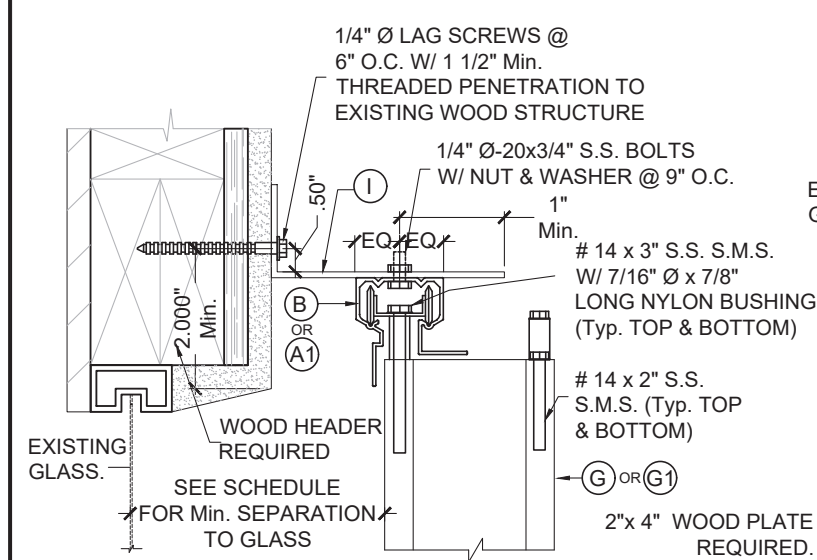
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ALTERNATIVE 1

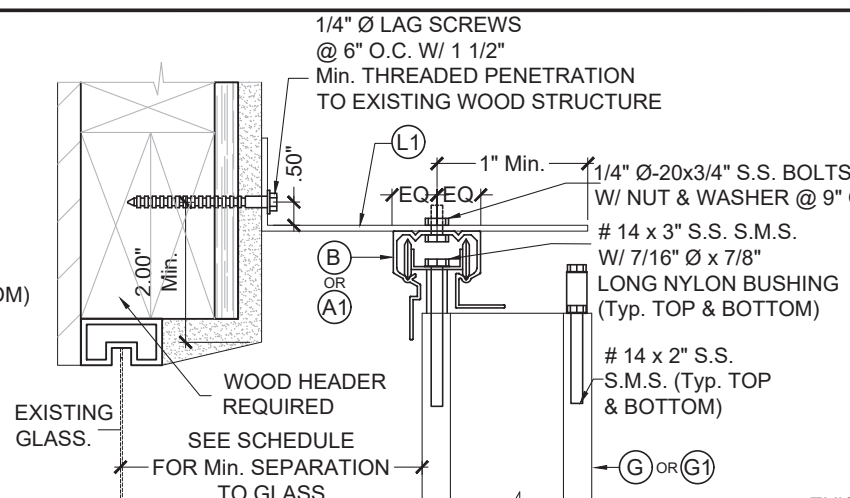


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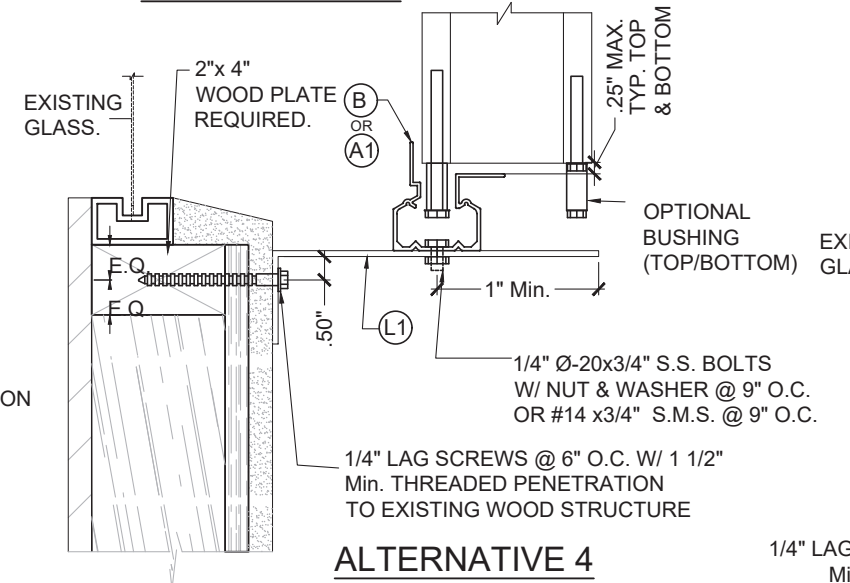


ALTERNATIVE 5

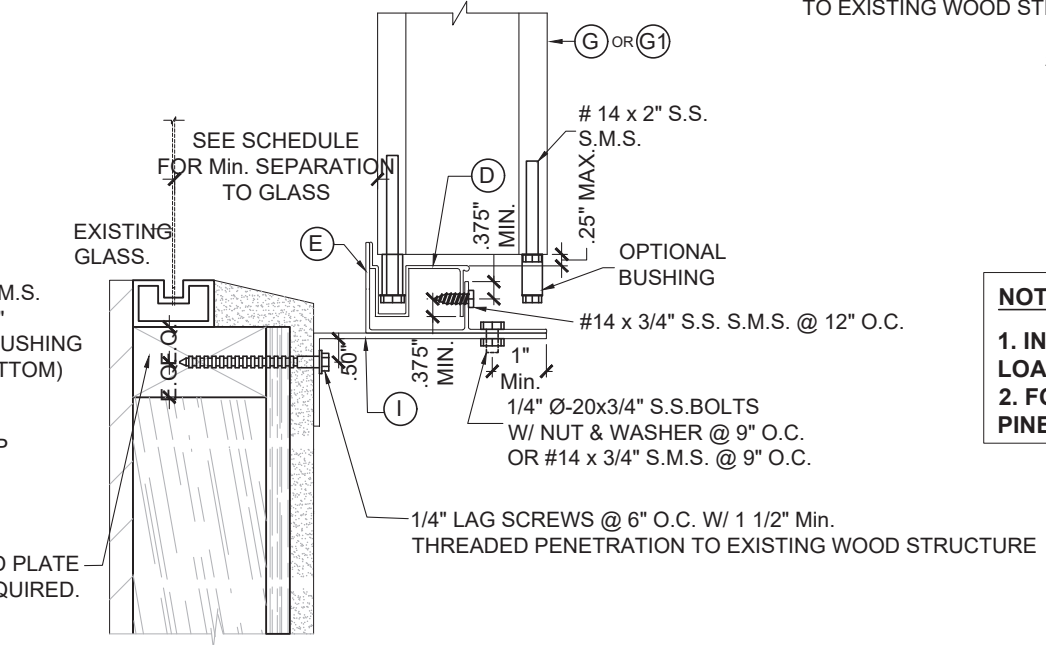
WALL MOUNTING INSTALLATION (OFFSET)
SECTIONS A
SCALE: 1/4"=1"
INSTALLATION DETAILS ON EXISTING WOOD BUILDINGS



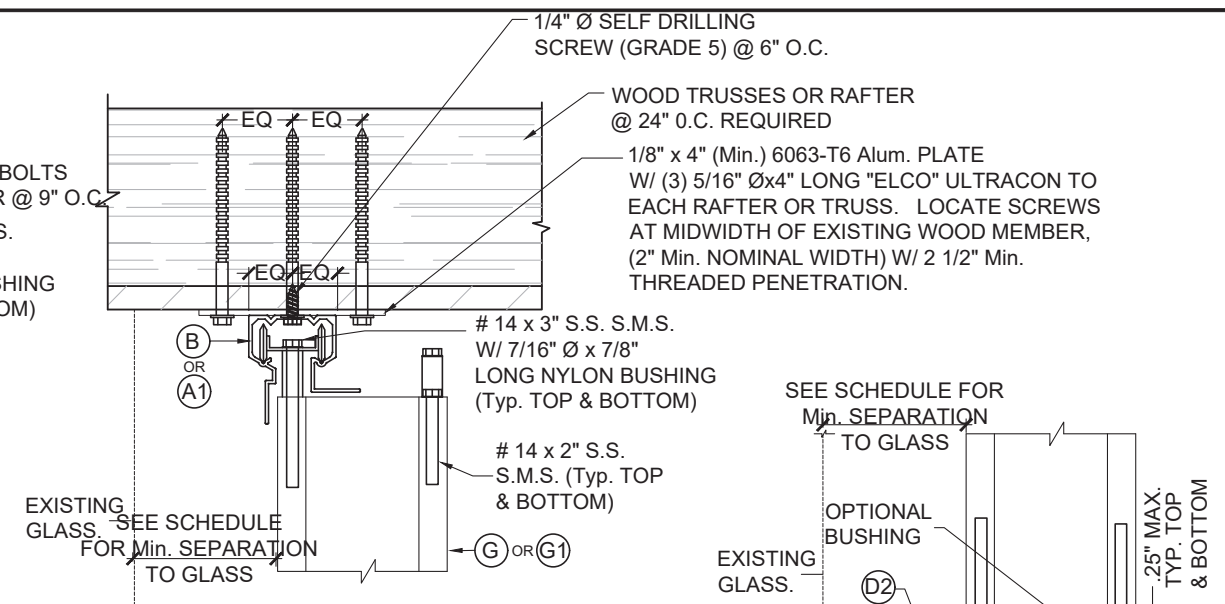
ALTERNATIVE 3



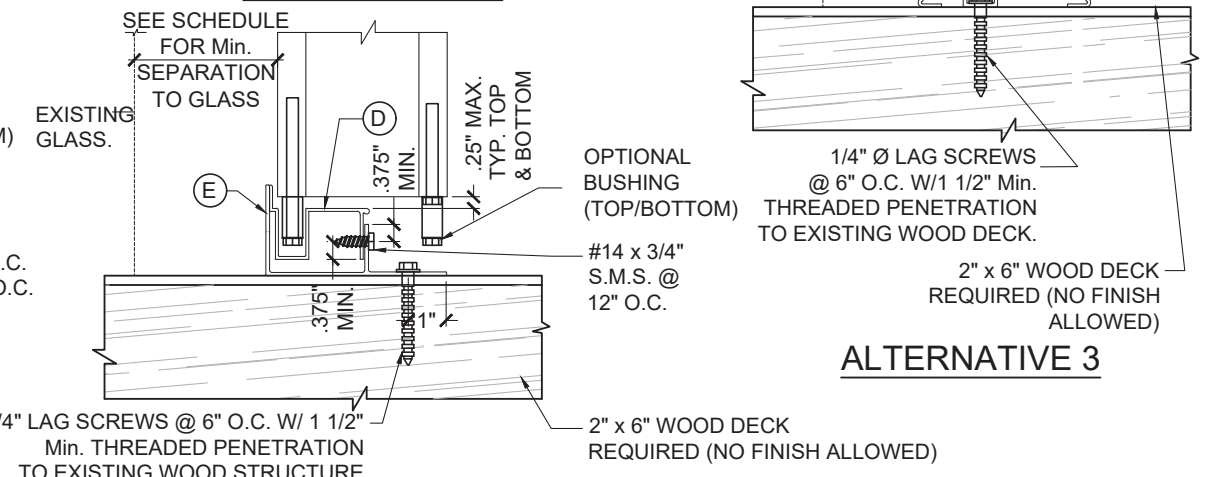
ALTERNATIVE 4



ALTERNATIVE 6



ALTERNATIVE 1

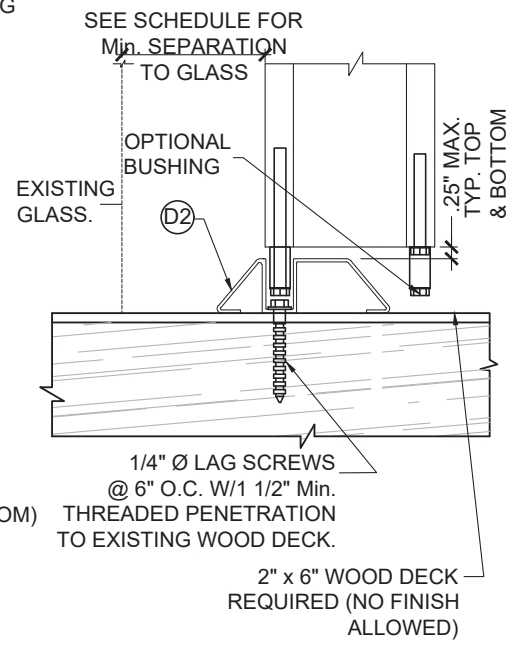


ALTERNATIVE 2

WALL MOUNTING INSTALLATION (OFFSET)

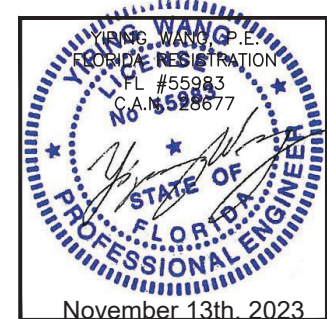
SECTIONS B

SCALE: 1/4"=1"



ALTERNATIVE 3

NOTES:
1. INSTALLATIONS ARE ONLY VALID FOR INSTALLATIONS WITH DESIGN WIND LOADS LESS THAN OR EQUAL TO 70 p.s.f. AND 9'-0" Max. SHUTTER SPAN.
2. FOR NEW WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN PINE No. 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL/GREATER.



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