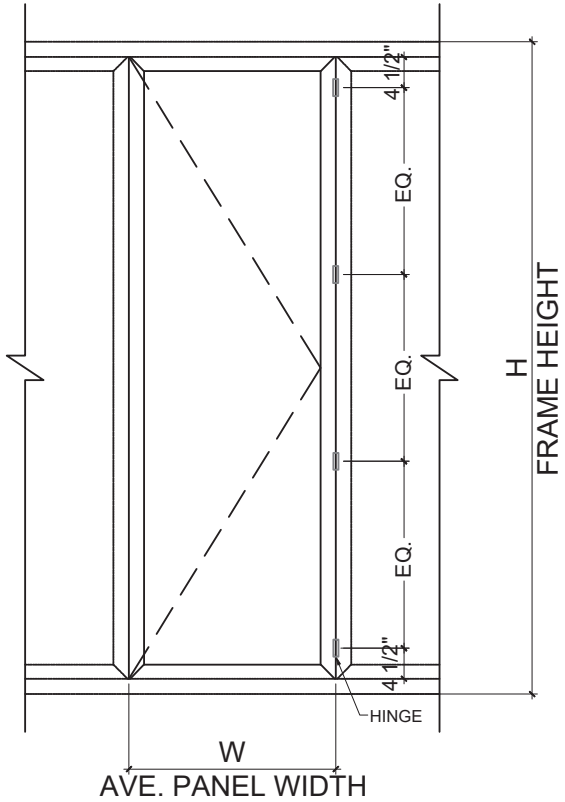


SHEET 1 of 7

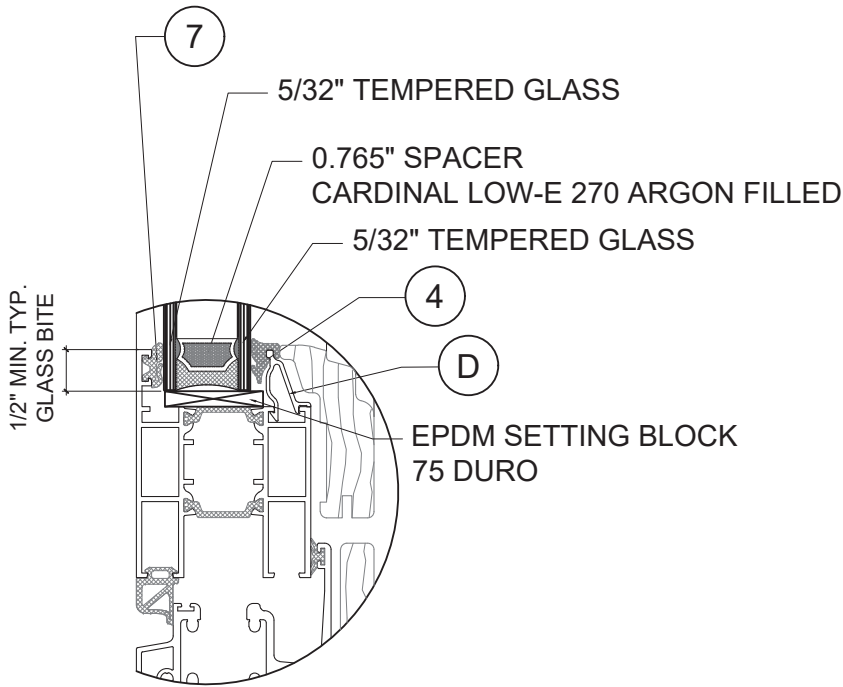
FOLDING DOOR			
DESIGN LOAD CAPACITY			
DOOR		GLASS TYPE "A"	
FRAME HEIGHT (H) in.	AVERAGE PANEL WIDTH (W) in.	EXT. (+) PSF	INT. (-) PSF
72"	24"	60	106.7
	27"	60	94.8
	30"	60	85.3
	33"	60	77.6
	36"	60	71.1
	39.0"	60	65.6
78"	24"	60	98.5
	27"	60	87.5
	30"	60	78.8
	33"	60	71.6
	36"	60	65.6
	39.0"	60	60.6
84"	24"	60	91.4
	27"	60	81.3
	30"	60	73.1
	33"	60	66.5
	36"	60	61
	39.0"	56.3	56.3
90"	24"	60	85.3
	27"	60	85.3
	30"	60	68.3
	33"	60	62.1
	36	56.9	56.9
	39	52.5	52.5
96"	24"	60	80
	27"	60	71
	30"	60	64
	33"	58	58
	36"	53.3	53
	39"	49.2	49

FOLDING DOOR			
DESIGN LOAD CAPACITY			
DOOR		GLASS TYPE "A"	
FRAME HEIGHT (H) in.	AVERAGE PANEL WIDTH (W) in.	EXT. (+) PSF	INT. (-) PSF
102"	24"	60	66.7
	27"	59.3	59.3
	30"	53.4	53.4
	33"	48.5	48.5
	36"	44.5	44.5
	39"	41.0	41.0
108"	24"	56.2	56.2
	27"	49.9	49.9
	30"	44.9	44.9
	33"	40.9	40.9
	36"	37.5	37.5
	39.0"	34.6	34.6
114"	24"	47.8	47.8
	27"	42.5	42.5
	30"	38.2	38.2
	33"	34.7	34.7
	36"	31.8	31.8
	39.0"	29.4	29.4
120"	24"	41	41
	27"	36.4	36.4
	30"	32.8	32.8
	33"	29.8	29.8
	36"	27.3	27.3
	39.0"	25.2	25.2



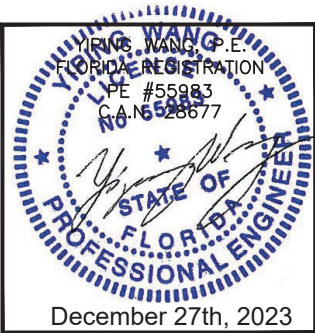
AVE. PANEL WIDTH = $\frac{\text{FRAME WIDTH}}{\text{\# OF PANELS}}$

EACH PANEL AREA H * W	No. OF HINGES REQ'D PER PANEL
IN²	
≤ 2304	3
≤ 3072	4
≤ 3840	5
≤ 4680	6



GLASS TYPE "A"

TOTAL 1" THK NOMINAL INSULATED GLASS
NOTE: GLASS COMPLY WITH ASTM E1300-16 (3 SEC. GUSTS)



REVISIONS

NO.	DATE	DESCRIPTION
1	11.15.23	UPDATE TO 2023 FBC

MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PARKWAY #301
MIRAMAR, FL 33027

P: 305.271.0117
www.MCYEngineering.com

SF 55C FOLDING DOOR SYSTEM NON IMPACT

SUNFLEX WALL SYSTEMS
28400 OLD US 41 ROAD, UNIT #5
BONITA SPRINGS, FL 33135
P: (800) 606 - 0756 F: (239) 495 - 2891

PRODUCT CONTROL APPROVAL

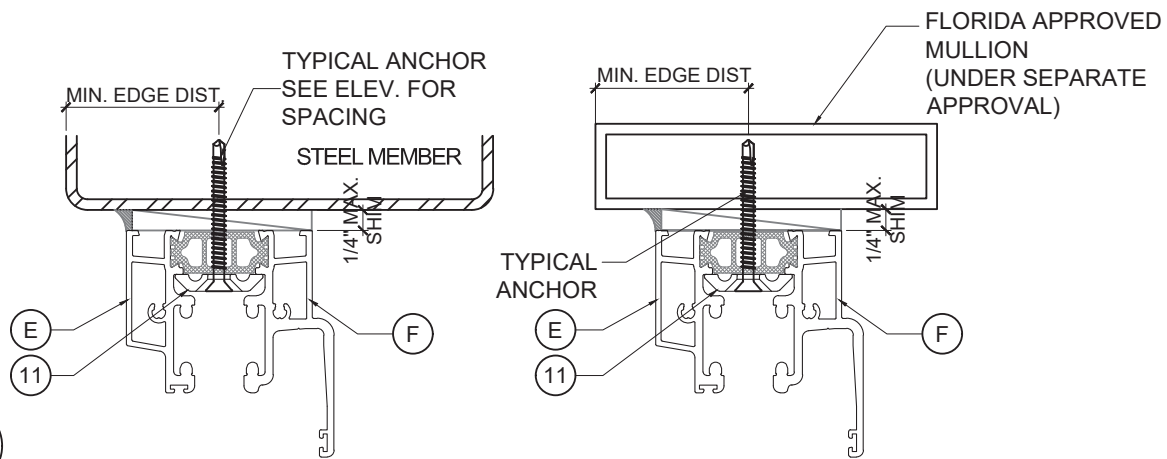
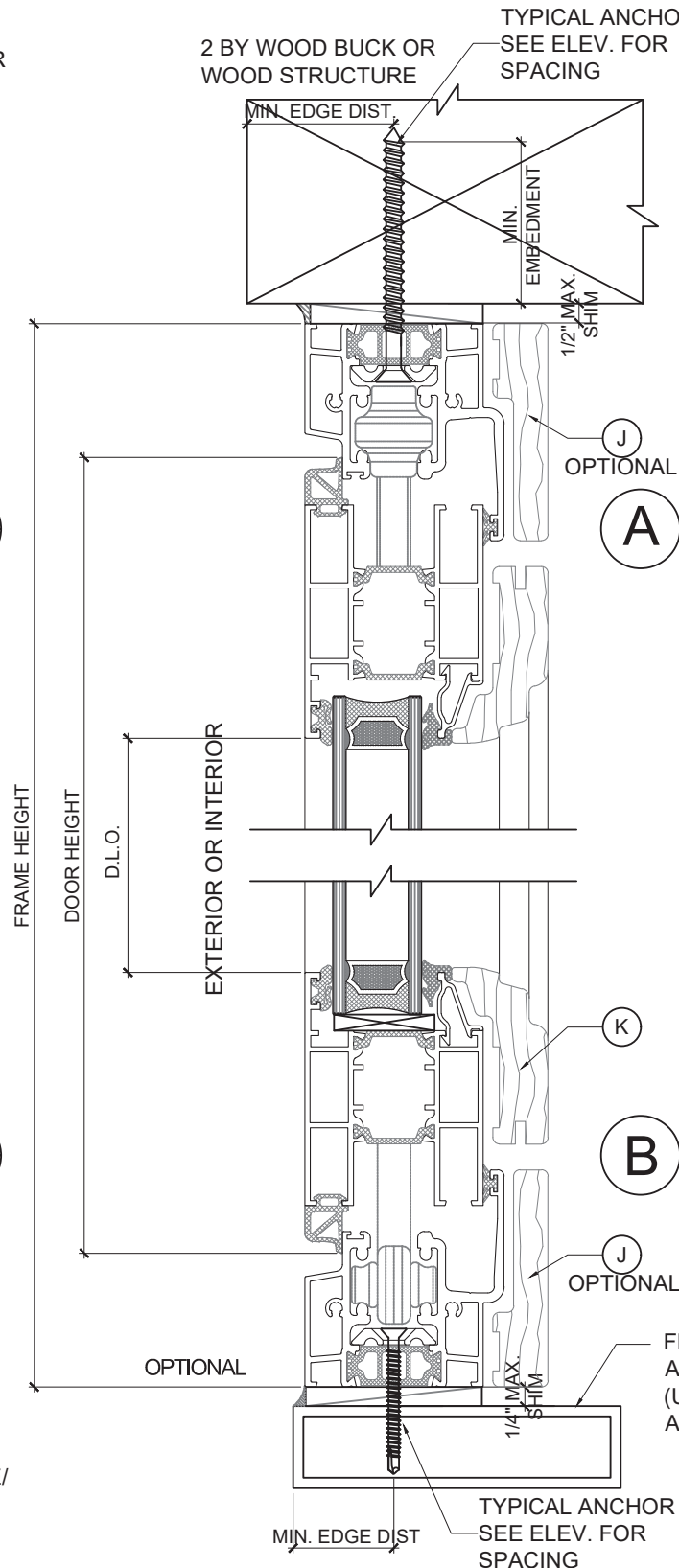
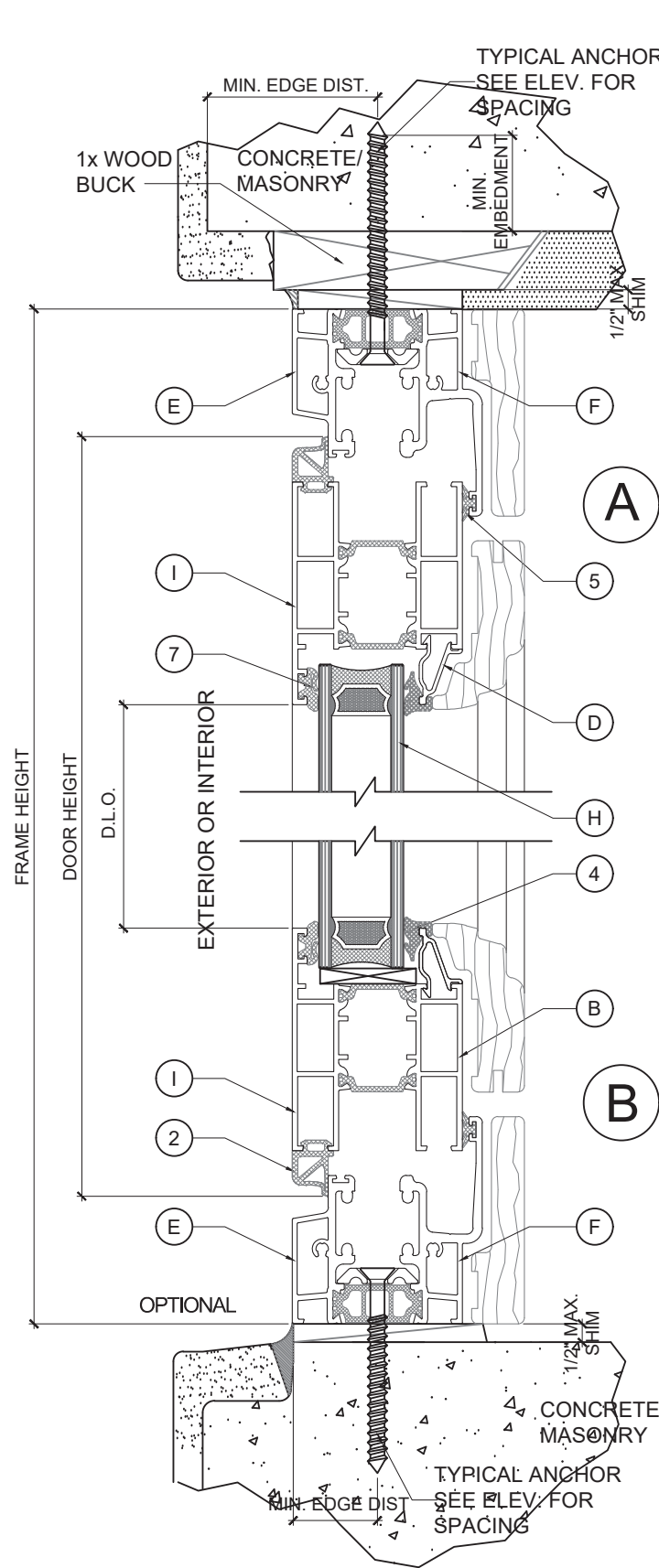
FL#17773.2

DATE	11.15.2023
SCALE	AS NOTED
DRAWN	MCY
PROJECT	

DRAWING NO.

AD11-09

SHEET 2 of 7



TYPICAL ANCHORS: SEE ELEVATION FOR SPACING

TYPE 'A' - **1/4" ULTRACONS BY 'ITW'** ($F_u = 177$ KSI, $F_y = 155$ KSI)

- INTO 2BY WOOD BUCKS OR WOOD STRUCTURE 1-1/2" MIN. PENETRATION INTO WOOD
- THRU 1BY BUCKS INTO CONC. OR MASONRY 1-1/4" MIN. EMBED INTO CONC. OR MASONRY
- DIRECTLY INTO CONC. OR MASONRY 1-5/8" MIN. EMBED INTO CONC. OR MASONRY

TYPE 'B' - **1/4" TEKS OR SELFDRILLING SCREWS (GRADE 5 CRS)** INTO METAL STRUCTURES

- STEEL : 1/8" THK MIN ($F_y = 36$ KSI MIN.)
- ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.) (STEEL IN CONTACT WITH ALUMINUM TO BE ISOLATED OR PAINTED)

TYPE 'C' - **#14 SMS OR STAINLESS STEEL SCREWS (GRADE 2 CRS)**

- INTO FLORIDA STATE APPROVED MULLIONS

MASONRY

- ASTM C90 GROUT FILLED CONCRETE BLOCK
- HOLLOW CONCRETE BLOCK

CONCRETE

- $f'_c = 3,000$ PSI

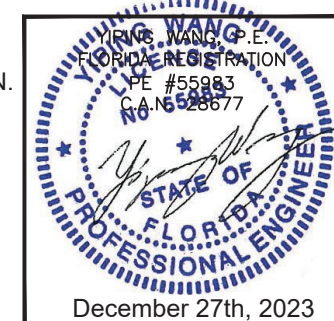
ANCHOR EDGE DISTANCES

INTO CONCRETE AND MASONRY = 2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

WEEP HOLES: FRAME: 0.300" X 1" HOLES AT $\pm 14"$ O.C.
SASHES: (2) 0.800" X 0.323 HOLES PER SASH AT 5" FROM EACH END.

DRAIN HOLES: 0.400 X 1" HOLES AT $\pm 14"$ O.C.

SEALANT: CRL SMALL JOINT SEALER CAT. NO. 5504AL WAS APPLIED ON THE EXTERIOR PERIMETER OF THE ENTIRE FRAME.

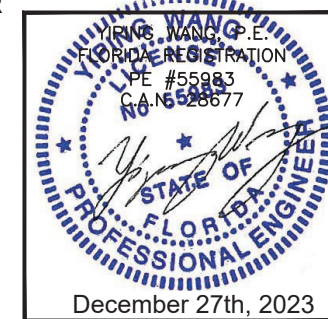
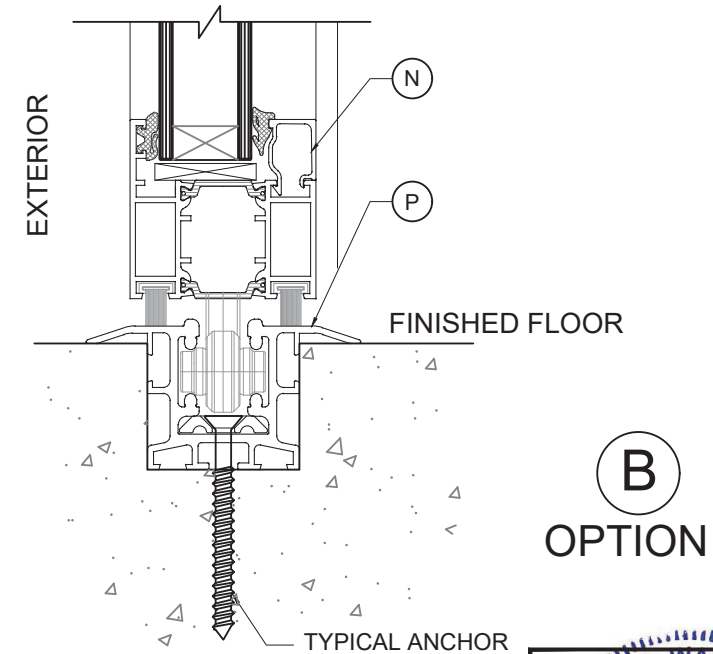
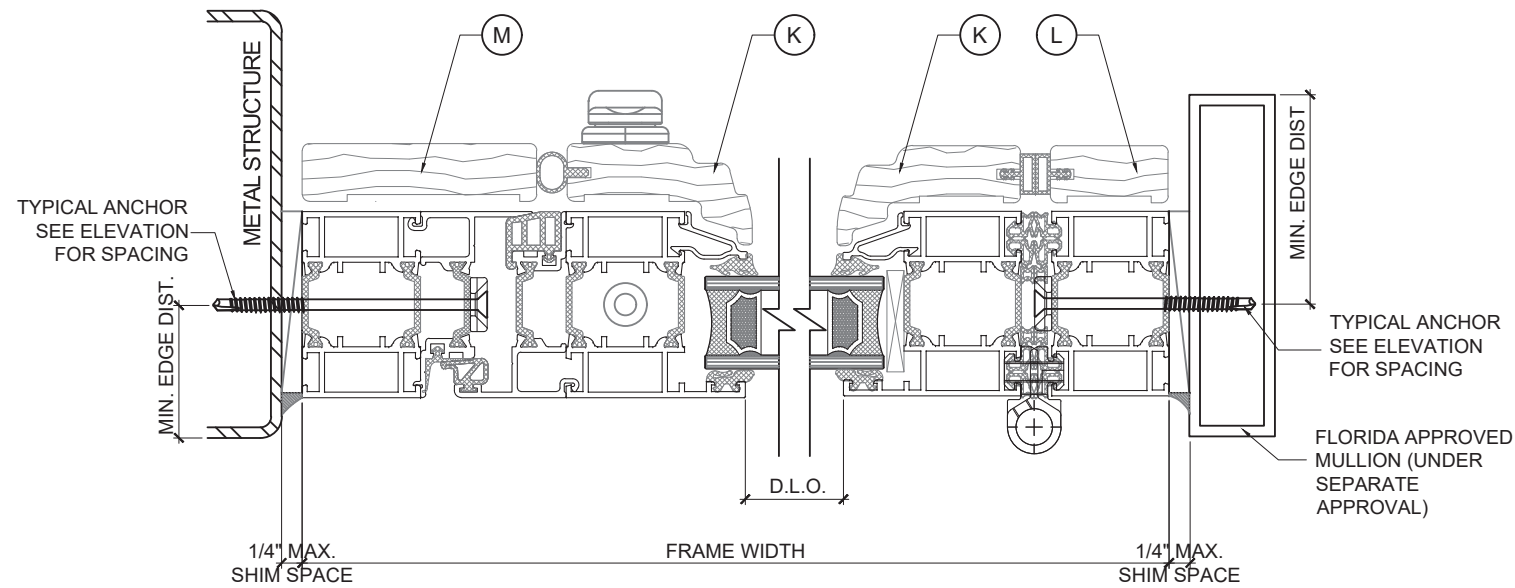
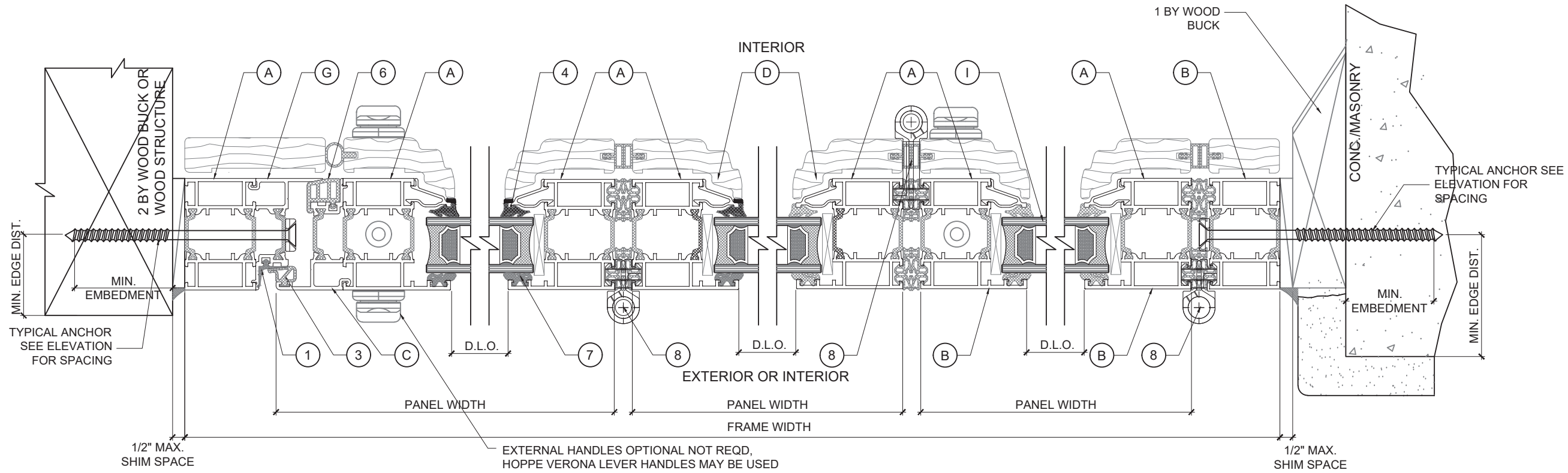


REVISIONS		NO. DATE		DESCRIPTION	
		11.15.23		UPDATE TO 2023 FBC	

MCY ENGINEERING, INC.		GLAZING CONSULTANTS	
12781 MIRAMAR PARKWAY #301		P: 305.271.0117	
MIRAMAR, FL 33027		www.MCYEngineering.com	

SF 55C FOLDING DOOR SYSTEM NON IMPACT		SUNFLEX WALL SYSTEMS	
28400 OLD US 41 ROAD, UNIT #5		BONITA SPRINGS, FL 33135	
P: (800) 606-0756		F: (239) 495-2891	

PRODUCT CONTROL APPROVAL		FL#17773.2	
DATE	11.15.2023	SCALE	AS NOTED
DRAWN	MCY	PROJECT	
DRAWING NO.		AD11-09	
SHEET 3 of 7			



REVISES	DESCRIPTION
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GLAZING CONSULTANTS

MCY

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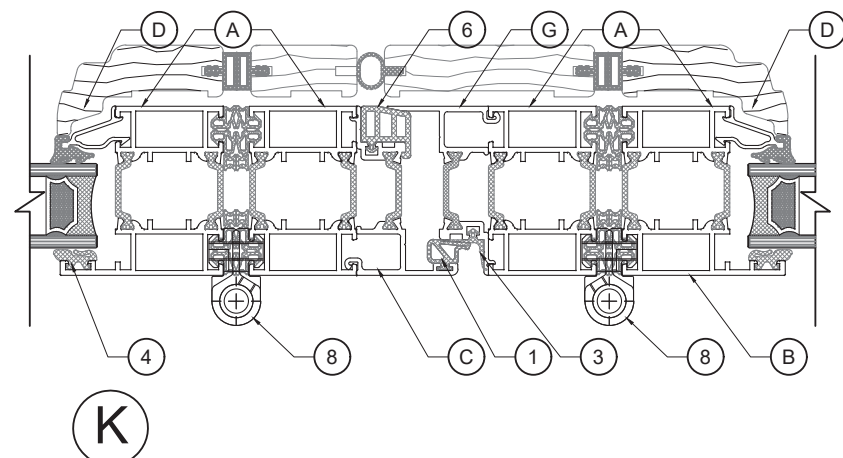
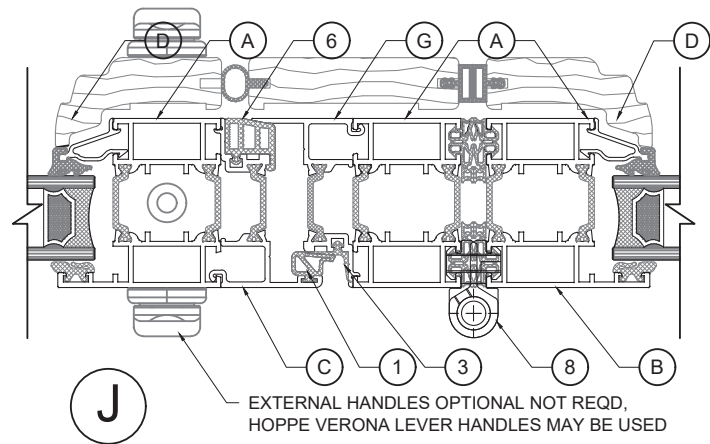
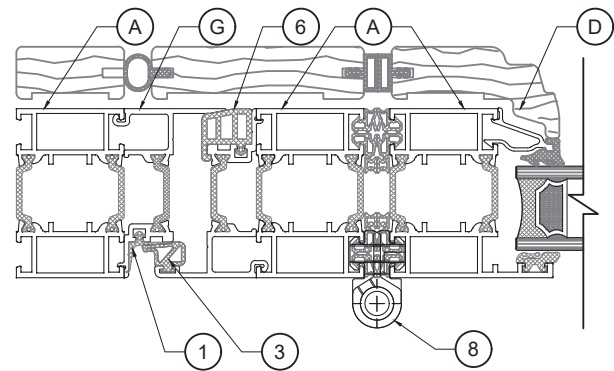
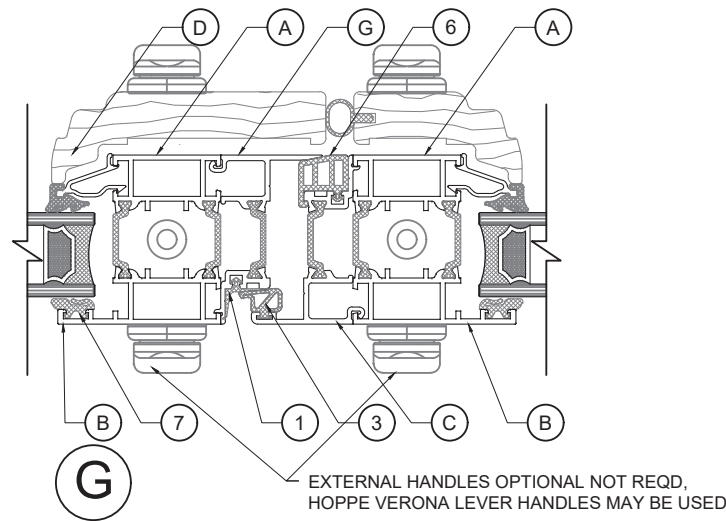
SF 55C FOLDING DOOR SYSTEM NON IMPACT
SUNFLEX WALL SYSTEMS
28400 OLD US 41 ROAD, UNIT #5
BONITA SPRINGS, FL 33135
P: (800) 606 - 0756 F: (239) 495 - 2891

PRODUCT CONTROL APPROVAL
FL#17773.2

DATE	11.15.2023
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PROJECT	

DRAWING NO.
AD11-09

SHEET 4 of 7



LOCK OPTIONS:

C1: MULTIPOINT LOCK # 557719 BY SUNFLEX, WITH HANDLE AT 41¼" FROM BOTTOM OF SASH. THE MULTIPOINT LOCK WAS CONSTRUCTED USING (2) 10mm DIAMETER ALUMINUM RODS. (SIMILAR TO L1 EXCEPT WITHOUT THE MUSHROOM LOCKING POINT)

(2) SURFACE BOLTS # 558803-2 BY SUNFLEX INSTALLED 2" FROM END OF CLOSING PROFILE ON TOP & BOTTOM RAIL, SECURED USING (1) M5 X 30 mm PFH MS.

C2: MULTIPOINT LOCK # 557719 BY SUNFLEX, WITH HANDLE AT 41¼" FROM BOTTOM OF SASH. THE MULTIPOINT LOCK WAS CONSTRUCTED USING (2) 10mm DIAMETER ALUMINUM RODS

(1) MUSHROOM TYPE LOCKING POINT USING PART # 019934 & # 559974 BY SUNFLEX AT 46½" FROM BOTTOM OF SASH

(2) SURFACE BOLTS # 558803-2 BY SUNFLEX INSTALLED 2" FROM END OF CLOSING PROFILE ON TOP & BOTTOM RAIL, SECURED USING (1) M5 X 30 mm PFH MS.

C3: MULTIPOINT LOCK # 557719 BY SUNFLEX, WITH HANDLE AT 41¼" FROM BOTTOM OF SASH. THE MULTIPOINT LOCK WAS CONSTRUCTED USING (2) 10mm DIAMETER ALUMINUM RODS. PRIMARY DOOR WITH LATCH AND KEY LOCK HANDLE SET.

(1) MUSHROOM TYPE LOCKING POINT USING PART # 019934 & # 559974 BY SUNFLEX AT 46½" FROM BOTTOM OF SASH

(2) SURFACE BOLTS # 558803-2 BY SUNFLEX INSTALLED 2" FROM END OF CLOSING PROFILE ON TOP & BOTTOM RAIL, SECURED USING (1) M5 X 30 mm PFH MS.

KEEPERS:

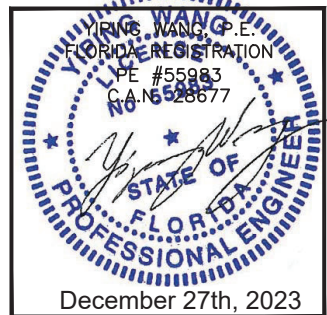
L1 # 559972 BY SUNFLEX. 48" FROM THE BOTTOM WITH (2) #10 X 5/8" PFH SMS & (1) #10 x 5/8" PFH MS.

HINGES:

HINGES CONSIST OF (1) FEMALE PIECE # 558801 AND (1) MALE # 558802 BY SUNFLEX. FEMALE PIECES ATTACHED TO FRAME USING (2) M5 X 12 mm SET SCREWS. WHEN FRAME WAS NOT PRESENT FEMALE PIECES WERE JOINED TO VERTICAL STILES L3 WITH L2 AND L2 WITH L1, USING A 7.9 mm DIAMETER STAINLESS STEEL PIN # 019904 BY SUNFLEX. MALE PIECES ATTACHED TO SASH USING (2) M5 X 12 mm SET SCREWS, AND SECURED TO THE PINS USING (1) M5 X 12 mm SE SCREW.

ROLLERS:

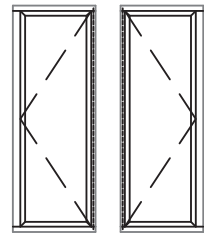
(2) ROLLERS # 557725 BY SUNFLEX ONE EACH ON THE TOP/BOTTOM INTERLOCKED WITH L2 USING ROLLER BRACKET # 558806 BY SUNFLEX. BRACKET INSTALLED TO TOP/BOTTOM RAIL OF L2, ON THE STILE FACING L1, USING (4) #7 X 1" LONG PFH SMS.



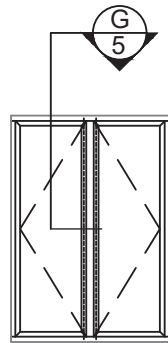
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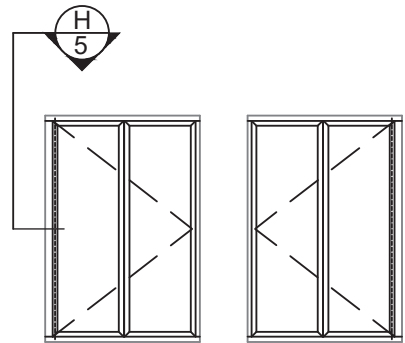
SF 55C FOLDING DOOR SYSTEM NON IMPACT SUNFLEX WALL SYSTEMS 28400 OLD US 41 ROAD, UNIT #5 BONITA SPRINGS, FL 33135 P: (800) 606 - 0756 F: (239) 495 - 2891		PRODUCT CONTROL APPROVAL FL#17773.2 DATE 11.15.2023 SCALE AS NOTED DRAWN MCY PROJECT DRAWING NO. AD11-09 SHEET 5 of 7	
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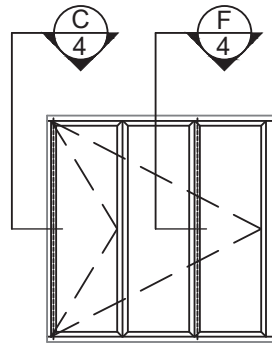
C2 OR C3
OPTION #1



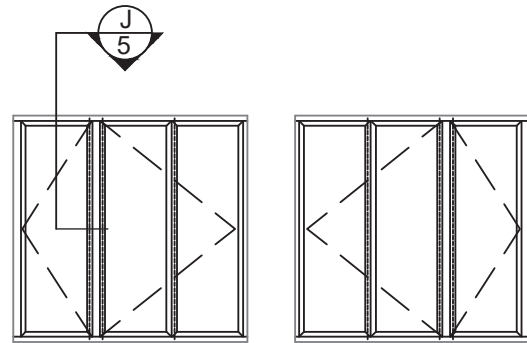
C1 C2
OPTION #2



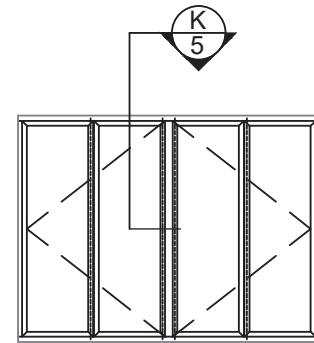
C1 C1
OPTION #3



C1 C2 OR C3
OPTION #4



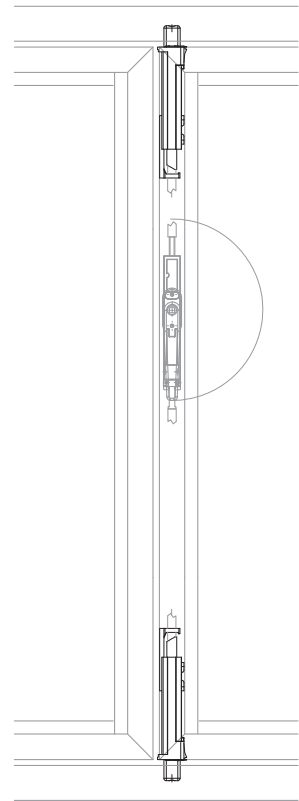
C2 C3 C1
OPTION #5



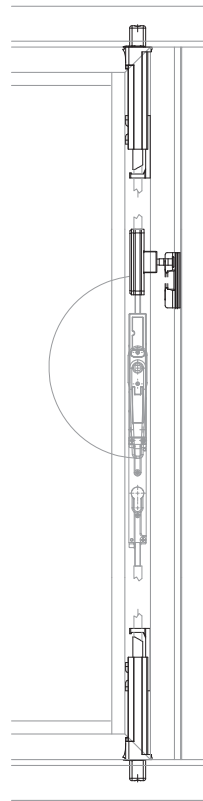
C1 C2 C3 C1
OPTION #6

CONFIGURATION OPTIONS

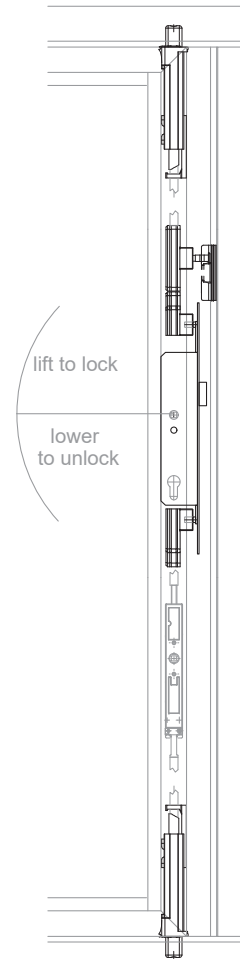
FRAMES SHOWN ABOVE CAN BE ADDED PANELS
AT EITHER SIDE UP TO TEN PANELS IN TOTAL



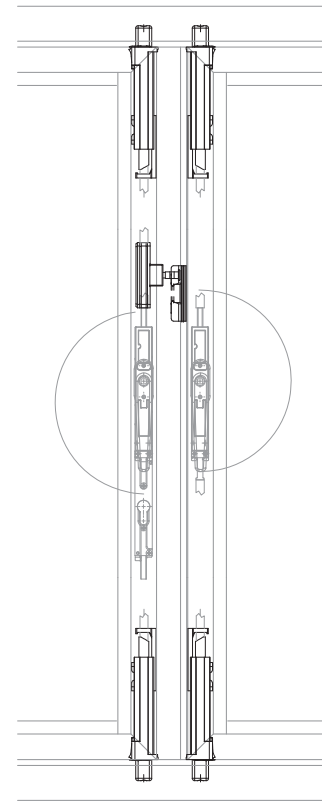
LOCK OPTION 1
C1



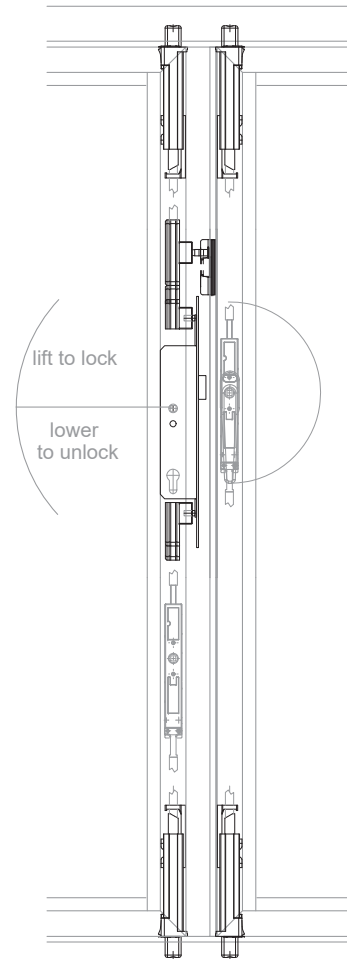
LOCK OPTION 2
C2



LOCK OPTION 3
C3

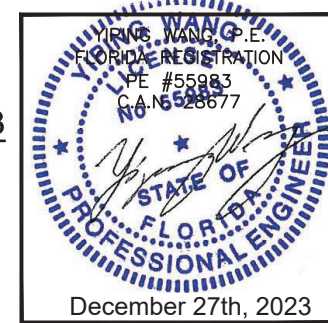


COMB. OF LOCK OPT. 1 & 2
C1 & C2



COMB. OF LOCK OPT. 1 & 3
C1 & C3

LOCK OPTIONS



REVISIONS	
NO. DATE	DESCRIPTION
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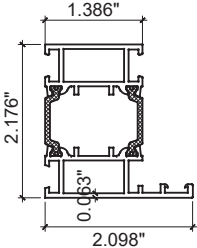
SF 55C FOLDING DOOR SYSTEM NON IMPACT	
SUNFLEX WALL SYSTEMS	
28400 OLD US 41 ROAD, UNIT #5 BONITA SPRINGS, FL 33135	
P: (800) 606 - 0756 F: (239) 495 - 2891	

PRODUCT CONTROL APPROVAL	
FL#17773.2	

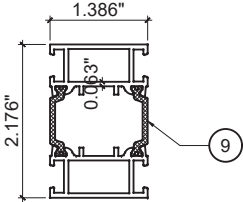
DATE	11.15.2023
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PROJECT	

DRAWING NO.
AD11-09

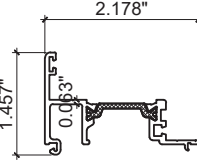
SHEET 6 of 7



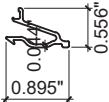
A STILES
550001



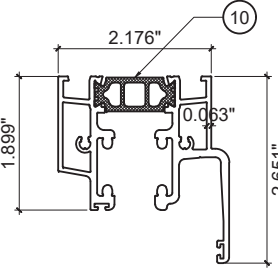
B JAMBS
550002



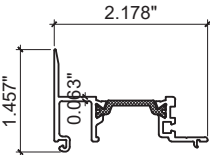
C CLOSING PROFILE
GASKET GROVE / ASTRAGAL
550003



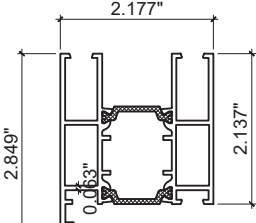
D GLAZING STOP
550015-1



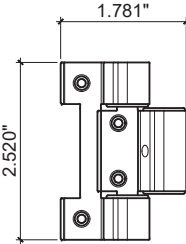
E **F** FRAME HEAD & SILL
550010



G CLOSING PROFILE
STRAIGHT/ FIXED ASTRAGAL
550021



I TOP/BOTTOM RAILS
550024

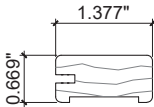


8 HINGE
558801 & 558802

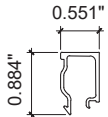
BILL OF MATERIALS					
ITEM #	QTY.	PROFILE	DESCRIPTION	MATERIAL	MANUFACTURER/REMARKS
A	2 PER PANEL	550001	STILES	ALUM. 6063-T5	SUNFLEX WALL SYSTEM
B	AS REQD.	550002	JAMBS	ALUM. 6063-T5	SUNFLEX WALL SYSTEM
C	1 PER FRAME	550003 - 2	CLOSING PROFILE GASKET GROVE/ASTRICAL	ALUM. 6063-T5	SUNFLEX WALL SYSTEM
D	4 PER PANEL	550015-1	GLAZING STOP	ALUM. 6063-T5	SUNFLEX WALL SYSTEM
E & F	2 PER PANEL	550010	FRAME HEAD & SILL	ALUM. 6063-T5	SUNFLEX WALL SYSTEM
G	1 PER FRAME	550021 - 1	CLOSING PROFILE STRAIGHT/FIXED ASTRIGAL	ALUM. 6063-T5	SUNFLEX WALL SYSTEM
H	1 PER PANEL	---	1" NOMINAL INSULATED GLASS	GLASS	-
I	2 PER PANEL	550024	TOP/BOTTOM RAILS	ALUM. 6063-T5	SUNFLEX WALL SYSTEM
J	AS REQD.	150006	FRAME HEAD & SILL CLADDING	WOOD	SUNFLEX WALL SYSTEM
K	AS REQD.	150004	TOP/BOTTOM RAILS CLADDING	WOOD	SUNFLEX WALL SYSTEM
L	AS REQD.	150003	JAMB CLADDING OPTION 1	WOOD	SUNFLEX WALL SYSTEM
M	AS REQD.	150011	JAMB CLADDING OPTION 2	WOOD	SUNFLEX WALL SYSTEM
N	AS REQD.	550006 - 1	GLAZING STOP	ALUM. 6063-T5	SUNFLEX WALL SYSTEM
P	AS REQD.	550025 - 1	FLUSH SILL	ALUM. 6063-T5	SUNFLEX WALL SYSTEM
1	AS REQD.	559903	WEATHER STRIPPING	EDPM GASKET	SUNFLEX WALL SYSTEM, DUROMETER 60 SHORE A
2	AS REQD.	559905	WEATHER STRIPPING	EDPM GASKET	SUNFLEX WALL SYSTEM, DUROMETER 70 SHORE A
3	AS REQD.	559936	WEATHER STRIPPING	EDPM GASKET	SUNFLEX WALL SYSTEM, DUROMETER 60 SHORE A
4	AS REQD.	759906	WEATHER STRIPPING	EDPM GASKET	SUNFLEX WALL SYSTEM, DUROMETER 60 SHORE A
5	AS REQD.	759908	WEATHER STRIPPING	EDPM GASKET	SUNFLEX WALL SYSTEM, DUROMETER 60 SHORE A
6	AS REQD.	759909	WEATHER STRIPPING	EDPM GASKET	SUNFLEX WALL SYSTEM, DUROMETER 60 SHORE A
7	AS REQD.	917050	WEATHER STRIPPING	EDPM GASKET	SUNFLEX WALL SYSTEM, DUROMETER 60 SHORE A
8	AS REQD.	558801 & 558802	HINGES	ALUM. CASTED	SUNFLEX WALL SYSTEM
9	AS REQD.	INSULBAR 2030	THERMAL BREAK TECATHERM 66	POLYAMIDE 66 W/ 25 ± 2, 5% GLASS FIBERS	ENSINGER
10	AS REQD.	INSULBAR 4917			
11	AS REQD.	559911	INSTALLATION BRIDGE	POLYAMIDE 66 GF	SUNFLEX WALL SYSTEM



J FRAME HEAD & SILL CLADDING
150006



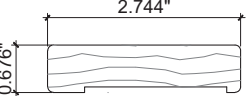
L JAMB CLADDING OPTION 1
150003



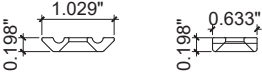
N GLAZING STOP
550006-1



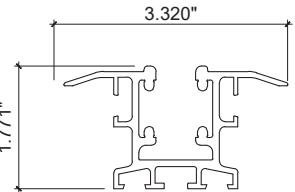
K TOP/BOTTOM RAILS CLADDING
150004



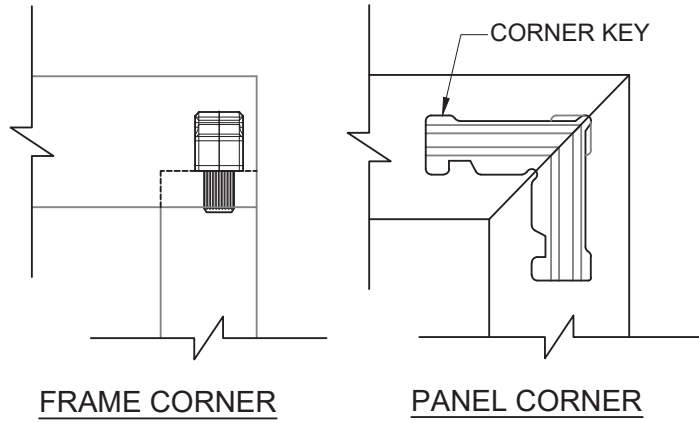
M JAMB CLADDING OPTION 2
150011



11 INSTALLATION BRIDGE
559911



P FLUSH SILL
550025-1



YOUNG WANG & ASSOCIATES, P.C.
FLORIDA REGISTRATION
PE #55983
C.A.#528677

December 27th, 2023

REVISIONS

NO	DATE	DESCRIPTION
1	11.15.23	UPDATE TO 2023 FBC



MCY ENGINEERING, INC.
GLAZING CONSULTANTS

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BONITA SPRINGS, FL 33135
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PRODUCT CONTROL APPROVAL

FL#17773.2

DATE	11.15.2023
SCALE	AS NOTED
DRAWN	MCY
PROJECT	

DRAWING NO.
AD11-09

SHEET 7 of 7