

ASSA ABLOY ASSA ABLOY ENTRANCE SYSTEMS 1900 AIRPORT ROAD MONROE, NC 28110 PHONE: 1-866-237-2687	ASSA ABLOY SL500 RESILIENCE R104 SLIDING DOOR SYSTEM BI-PARTING FIXED SIDELITE WITH EX OPTION	Revisions			
		Rev	Description	Date	Approved
		2	Added EX-SL Option Details	05/24/22	CBG

GENERAL NOTES:

1. THIS PRODUCT HAS BEEN TESTED PER TAS 201, 202, & 203. IT MEETS ALL OF THE REQUIREMENTS OF THE CURRENT EDITION OF THE FLORIDA BUILDING CODE, INCLUDING THE HVHZ PROVISIONS. GLASS TYPES 1-3 ARE IMPACT RESISTANT, AND DO NOT REQUIRE SHUTTERS IN WINDBORNE DEBRIS REGIONS.

2. MAX. DESIGN PRESSURES ARE LISTED ON SHEET 6.

3. THIS DOOR SYSTEM IS NOT TESTED OR RATED FOR WATER INFILTRATION RESISTANCE. IT IS INTENDED FOR USE ONLY IN LOCATIONS WHERE WATER INFILTRATION RESISTANCE IS NOT REQUIRED OR WHERE IT IS PROTECTED BY AN OVERHANG MEETING THE REQUIREMENTS OF FBC SECTION 1709.5.1.

4. OPENING SUBSTRATES, WOOD BUCKS (OPTIONAL), AND WOOD BUCK FASTENERS ARE BY OTHERS AND MUST BE DESIGNED AND INSTALLED PER FBC REQUIREMENTS TO SAFELY TRANSFER THE LOADS FROM THIS SYSTEM TO THE BUILDING STRUCTURE. SUBSTRATES SHALL MEET THE MINIMUM STRENGTH REQUIREMENTS LISTED IN THE ANCHOR CHART ON SHEET 21.

5. ANCHOR TYPE, SIZE, SPACING, AND EMBEDMENT SHALL BE AS LISTED IN THE ANCHOR CHART ON SHEET 21, AND AS DETAILED IN THESE DRAWINGS. ANCHOR EMBEDMENT IN SUBSTRATE SHALL BE BEYOND WALL DRESSING OR STUCCO.

6. ALL FASTENERS PENETRATING INTO PRESSURE TREATED WOOD SHALL BE CAPABLE OF PREVENTING CORROSION DUE TO REACTION WITH PRESSURE TREATMENT CHEMICALS.

7. THE 4/3 INCREASE IN ALLOWABLE STRESS FOR SHORT-TERM LOADING HAS NOT BEEN USED IN THE DESIGN OF THIS SYSTEM. THE 1.6 Cd FACTOR HAS BEEN USED IN THE ANALYSIS OF WOOD SCREWS ONLY.

8. DISSIMILAR MATERIALS THAT COME INTO CONTACT SHALL BE PROTECTED TO PREVENT GALVANIC REACTIONS IN ACCORDANCE WITH FBC CHAPTERS 20 AND 23.

SYSTEM NOTES:

9. ALL ALUMINUM PARTS SHALL BE 6063-T5 ALUMINUM ALLOY AND TEMPER, UNLESS OTHERWISE NOTED.

10. FOR GLAZING DETAILS, SEE SHEETS 7 AND 8.

11. THE GLAZING MATERIALS IN BOTH FIXED AND SLIDING PANELS OF ALL SLIDING DOORS MUST COMPLY WITH THE REQUIREMENTS IN THE PERFORMANCE SPECIFICATIONS AND METHODS OF TEST FOR SAFETY GLAZING MATERIALS USED IN BUILDINGS, PER FBC REQUIREMENTS.

12. THIS SYSTEM HAS NOT BEEN TESTED PER ANSI Z97.1.

CORNER CONSTRUCTION:

13. FRAME CORNERS ARE SQUARE CUT AND MECHANICALLY FASTENED AT THE HEAD WITH M6x30 SCREWS USING A BEAM END PLATE (SEE SHEET 20),

14. PANEL CORNERS ARE SQUARE CUT AND MECHANICALLY FASTENED AT EACH CORNER USING ANTI-TWIST BRACKETS, THEN REINFORCED WITH (2) FULL WIDTH 3/8" THREADED TIE IN THE TOP AND BOTTOM RAILS.

Sheet

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Description

General Notes

Bi-Part Elevation, EX-SW 10', Jamb Anchoring Locations

Bi-Part Elevation, EX-SW 8', Jamb Anchoring Locations

Bi-Part Elevation, EX-SL 8', Jamb Anchoring Locations

Bi-Part Elevation, EX-SL 10', Jamb Anchoring Locations

Design Pressure Charts

Glazing Details

EX Option Glazing Details

Bi-Part With EX-SW Door Panels Section Views

Bi-Part With EX-SL Door Panels Section Views

Bi-Part Header and Sill Anchoring Locations

EX-SL Header and Sill Anchoring Locations

Bi-Part Door Connections and Head Section Views

EX-SW Option Door Connections and Head Section Views

EX-SL Option Door Connections and Head Section Views

Bi-Part Locking Mechanism Details and Muntin Details

EX-SW Option Locking Mechanism and Hinge Mounting

EX-SL Option Locking Mechanism and Spring Opener

EX-SW Option Door Latching

Frame Connection Details

Threshold Anchoring Details, Installation Anchor Table

Frame Anchoring Details

Bi-Part Profiles

EX Option Profiles

Bi-Part Bill of Materials

EX Option Bill of Materials

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FL PE# 62354

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DWG NO. 1022586

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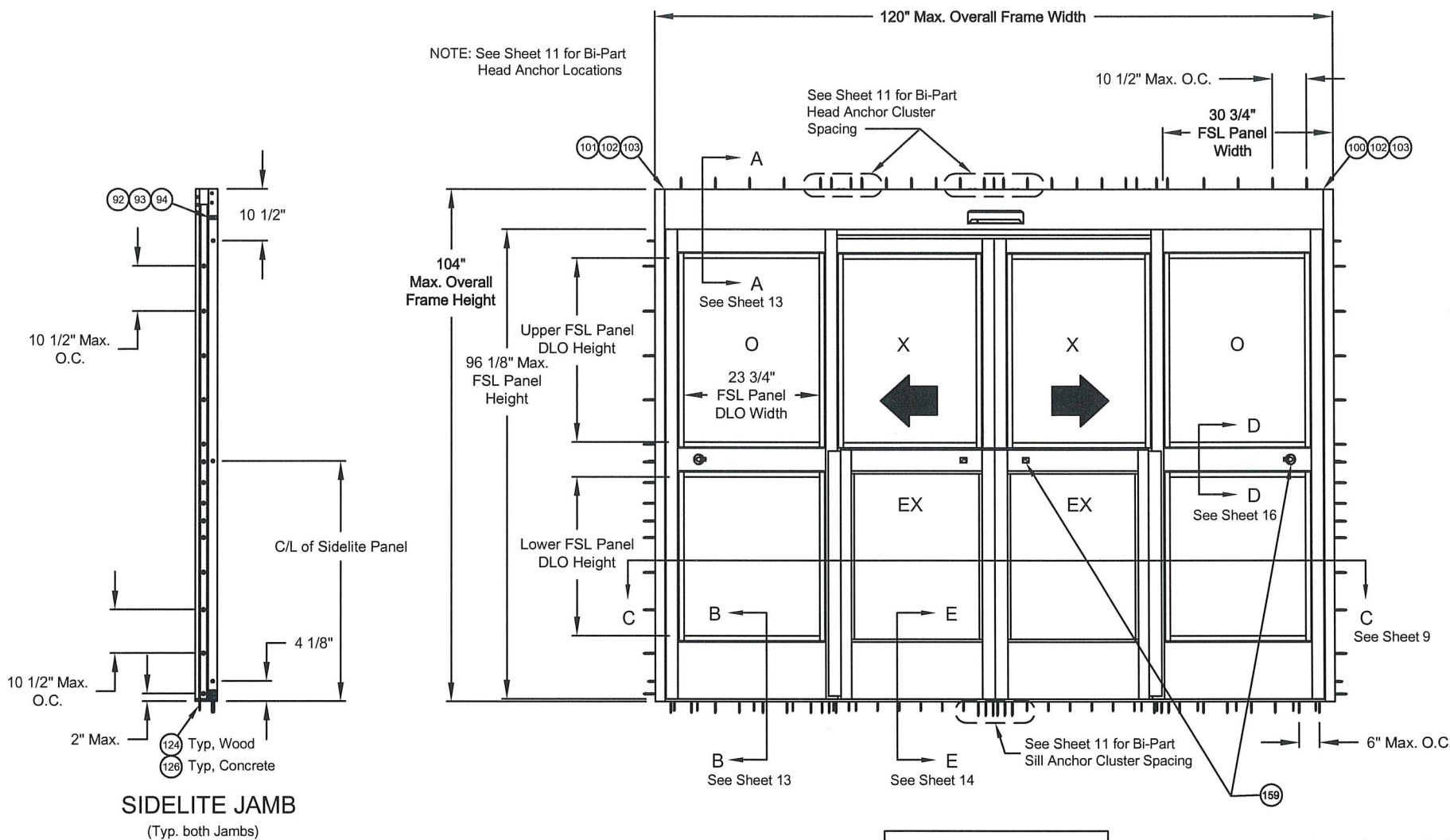
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DATE 05/24/2022

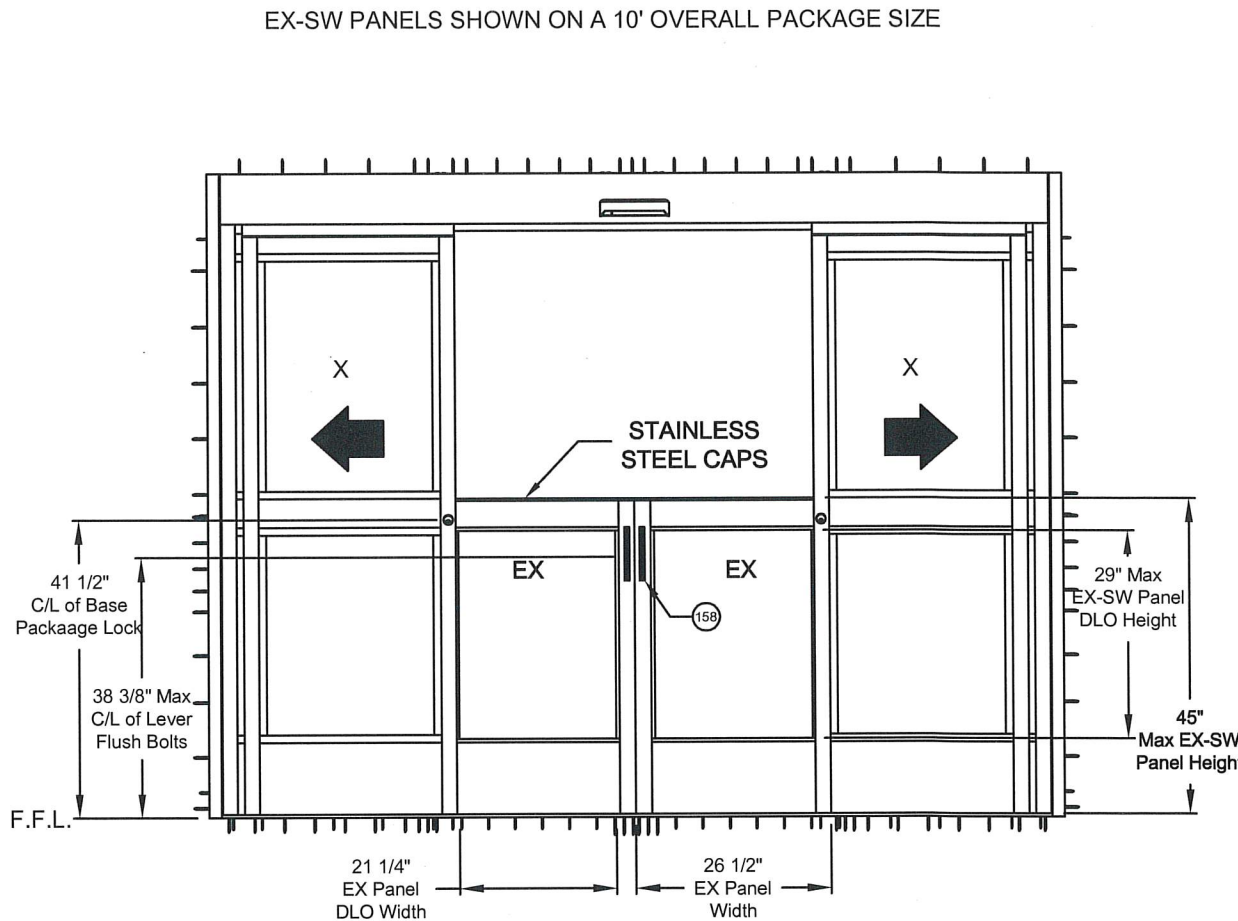
SHEET NO. 1 OF 26

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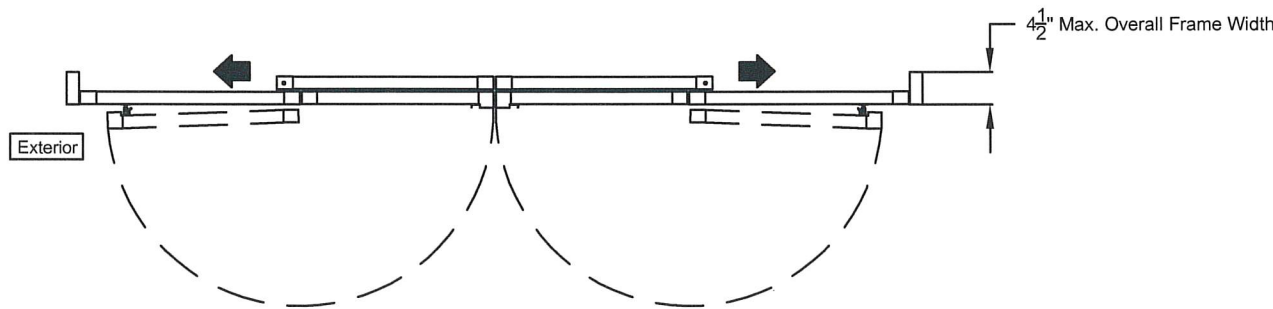
Revisions			
Rev	Description	Date	Approved
2	Added EX-SL Option Details	05/24/22	CBG



SLIDE DOORS CLOSED SHOWN
EX-SW DOORS CLOSED SHOWN



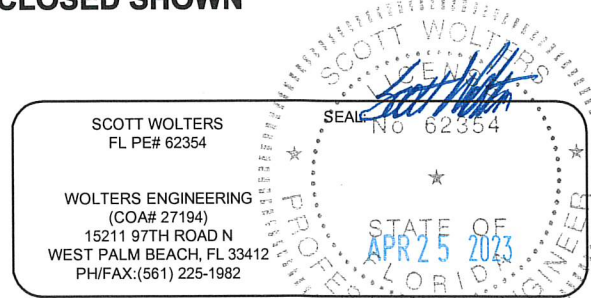
SLIDE DOORS OPEN SHOWN
EX-SW DOORS CLOSED SHOWN



	Daylight Opening (DLO) Width Formulas
FSL	FSL Panel Width - 7" [177.8]
EX-SW	EX-SW Panel Width - 5 1/4" [133.3]

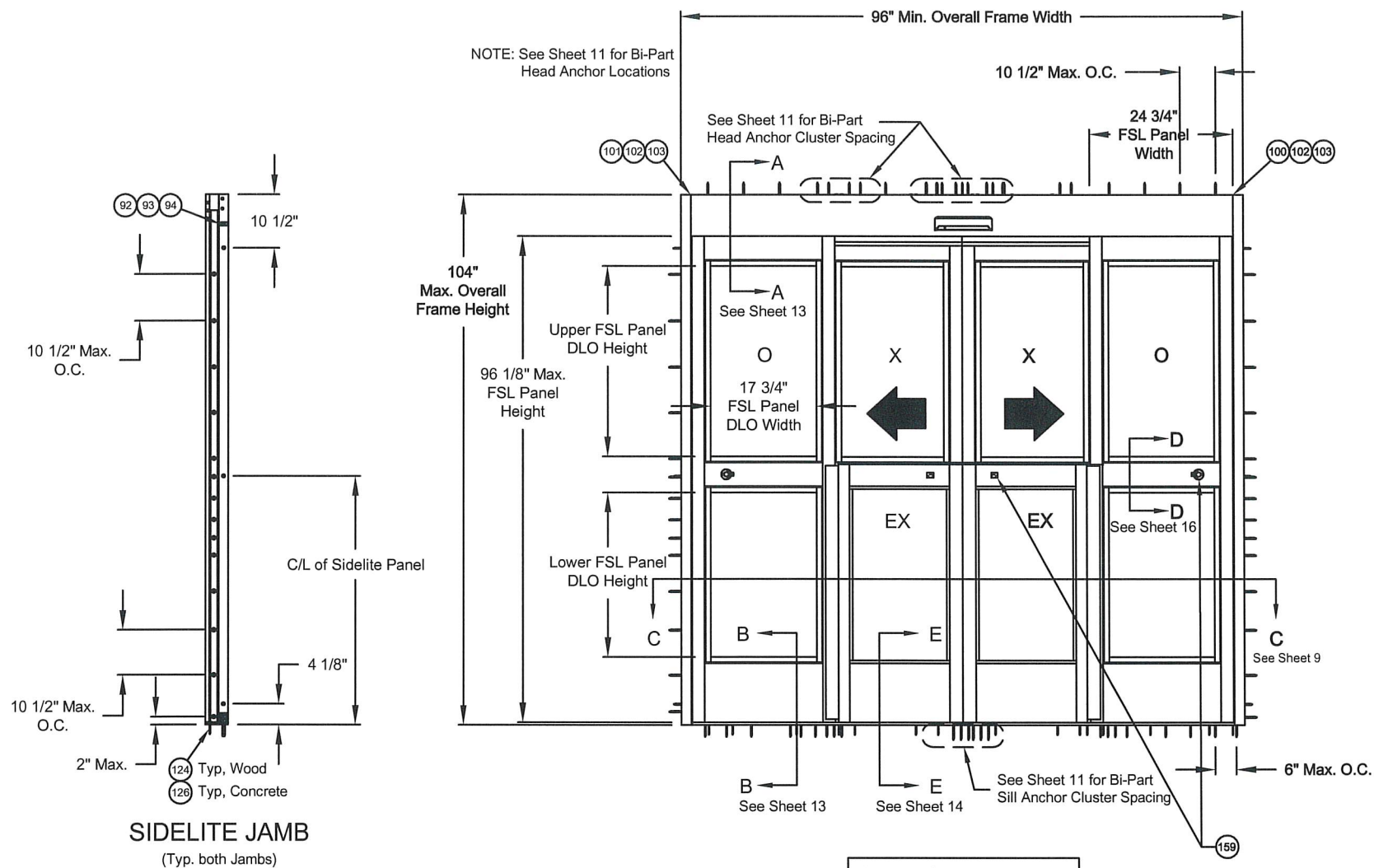
	Daylight Opening (DLO) Height Formulas
FSL	Max. Total = Upper+Lower = FSL Panel Height - 31 1/2" [800.1]
EX-SW	EX-SW Panel Height - 14" [355.6]

NOTE: Upper & Lower FSL DLOs are variable based on selected muntin height. Total FSL DLO remains constant.



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SHEET DESCRIPTION	

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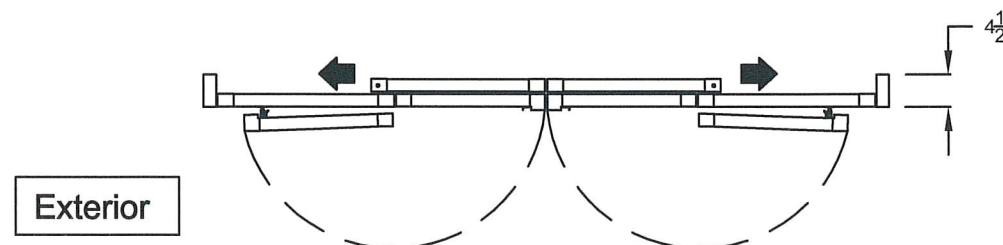
EXTERIOR ELEVATION

WARNING: NOT FOR PUBLIC USE. TRAINED TRAFFIC ONLY.

INTERIOR ELEVATION

**SLIDE DOORS CLOSED SHOWN
EX-SW DOORS CLOSED SHOWN**

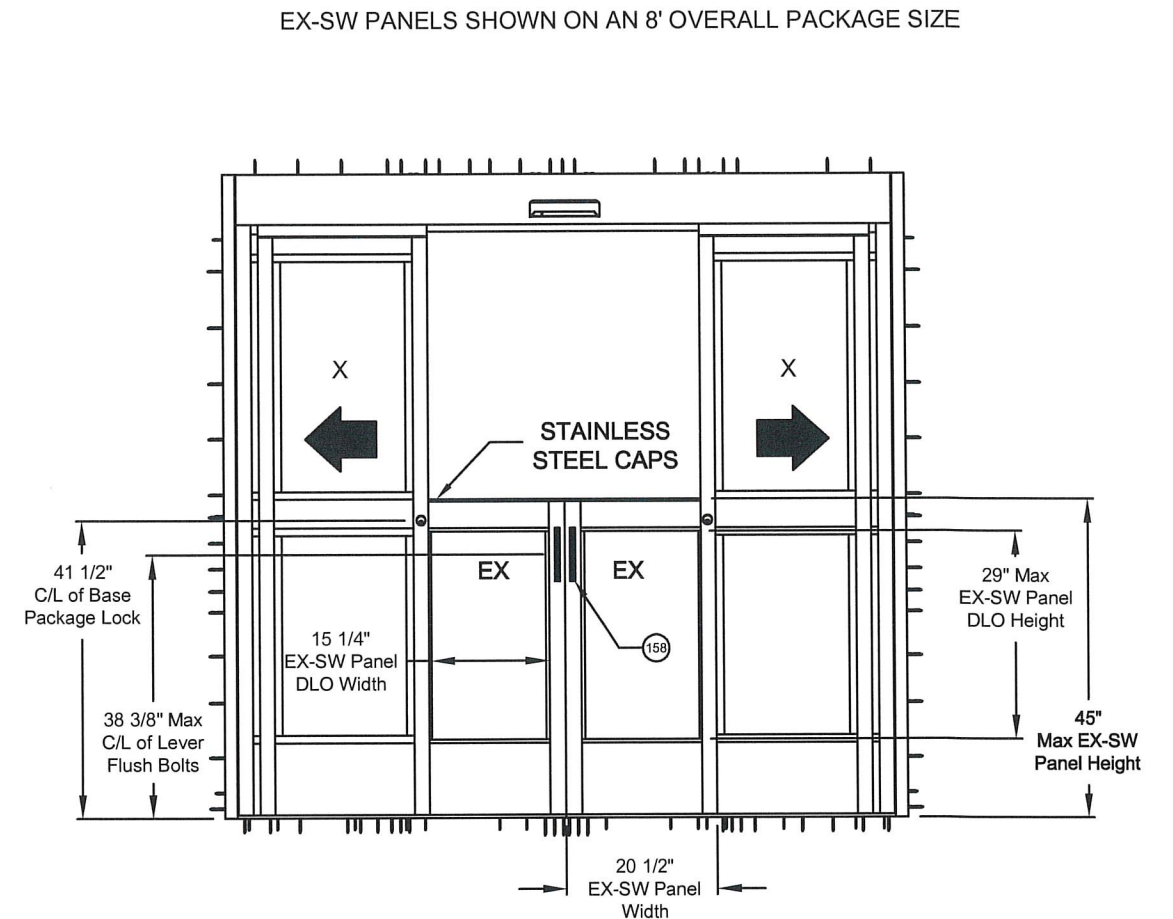
SLIDE DOORS OPEN SHOWN
EX-SW DOORS CLOSE SHOWN



	Daylight Opening (DLO) Width Formulas
FSL	FSL Panel Width - 7" [177.8]
EX-SW	EX-SW Panel Width - 5 1/4" [133.3]

	Daylight Opening (DLO) Height Formulas
FSL	Max. Total = Upper+Lower = FSL Panel Height - 31 1/2" [800.1]
EX-SW	EX-SW Panel Height - 14" [355.6]

NOTE: Upper & Lower FSL DLOs are variable based on selected muntin height. Total FSL DLO remains constant.



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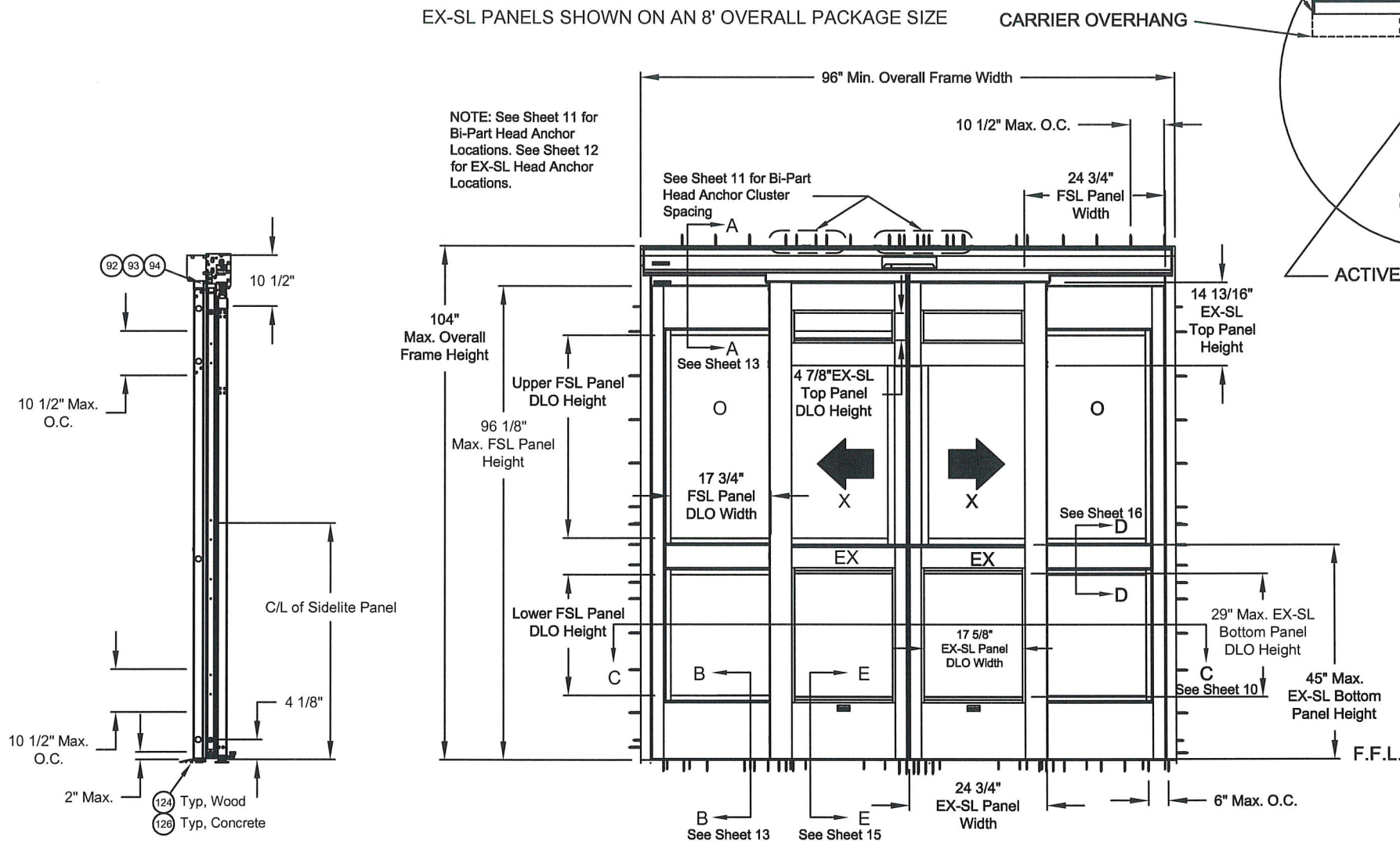
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SEAL: *Scott Wolters*
No 62354

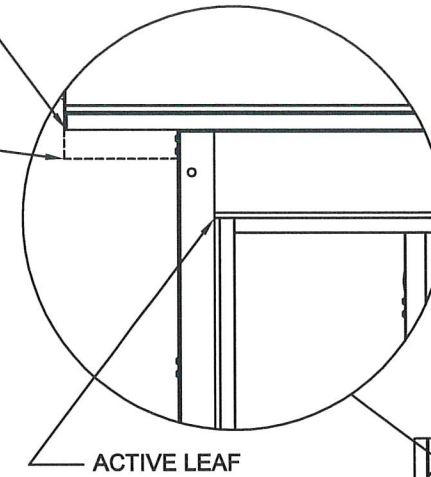
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SHEET DESCRIPTION		SHEET NO. 3 OF 26

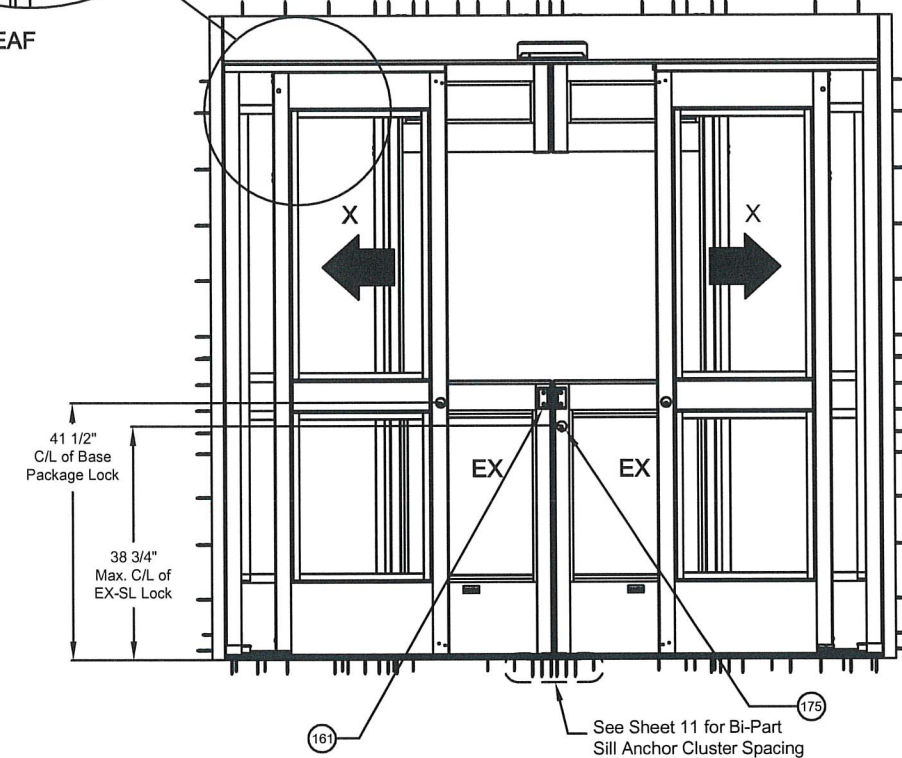
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SIDELITE JAMB
(Typ. both Jamb)



NOTE: ON 8' PACKAGE, DOOR STOP IS REMOVED. ACTIVE LEAF CARRIER OVERHANGS ACTIVE LEAF AND ACTS AS DOOR STOP



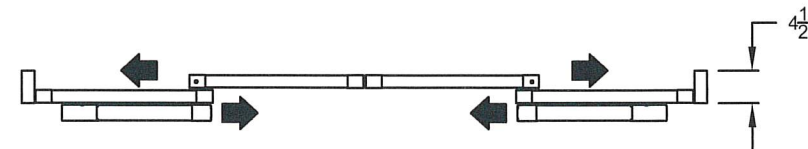
EXTERIOR ELEVATION

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INTERIOR ELEVATION

SLIDE DOORS CLOSED SHOWN
EX-SL DOORS CLOSED SHOWN

**SLIDE DOORS OPEN SHOWN
EX-SL DOORS CLOSED SHOWN**



Exterior

	Daylight Opening (DLO) Width Formulas
FSL	FSL Panel Width - 7" [177.8]
EX-SL	EX-SL Panel Width - 5 1/4" [133.3]

	Daylight Opening (DLO) Height Formulas
FSL	Max. Total = Upper+Lower = FSL Panel Height - 31 1/2" [800.1]
EX-SL Top	EX-SL Top Panel Height - 9 15/16" [248.4]
EX-SL Bottom	EX-SL Bottom Panel Height - 16" [406.4]

NOTE: Upper & Lower FSL DLOs are variable based on selected muntin height. Total FSL DLO remains constant.

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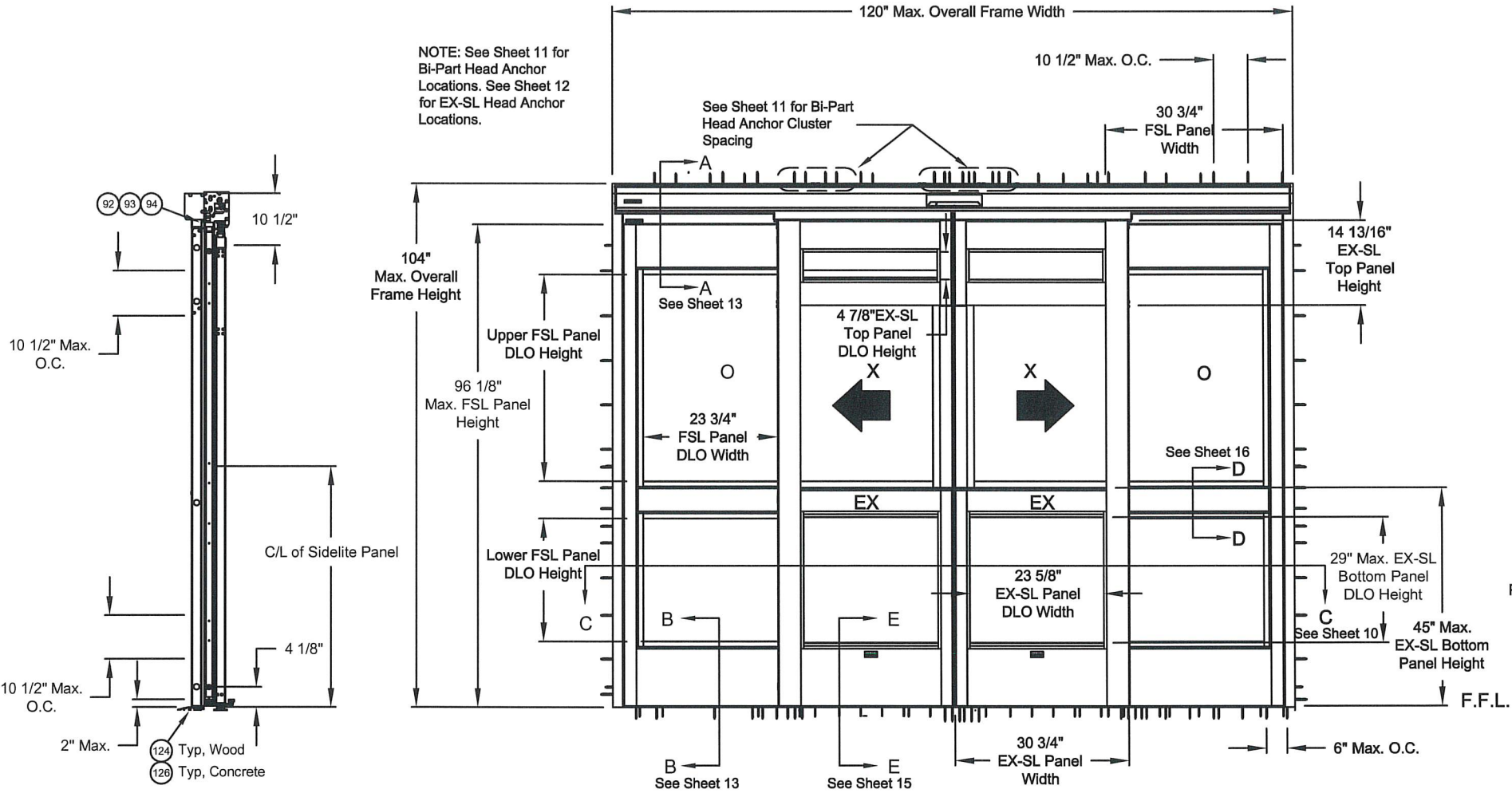
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SHEET DESCRIPTION	SHEET NO. 4 OF 26
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Revisions			
Rev	Description	Date	Approved
2	Added EX-SL Option Details	05/24/22	CBG

EX-SL PANELS SHOWN ON A 10' OVERALL PACKAGE SIZE



SIDELITE JAMB
(Typ. both Jambs)

EXTERIOR ELEVATION

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INTERIOR ELEVATION

SLIDE DOORS CLOSED SHOWN
EX-SL DOORS CLOSED SHOWN

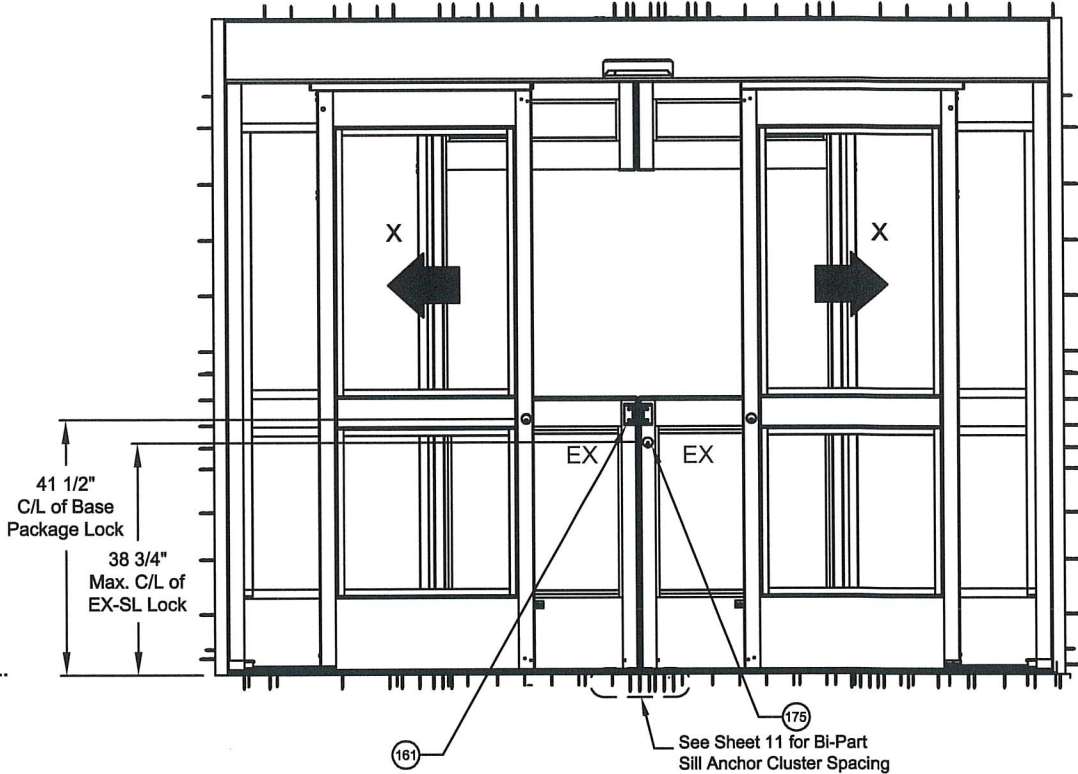
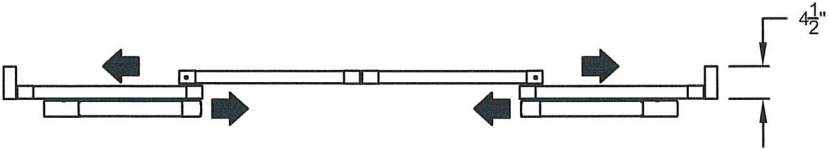
SLIDE DOORS OPEN SHOWN
EX-SL DOORS CLOSED SHOWN

	Daylight Opening (DLO) Width Formulas
FSL	FSL Panel Width - 7" [177.8]
EX-SL	EX-SL Panel Width - 5 1/4" [133.3]

	Daylight Opening (DLO) Height Formulas
FSL	Max. Total = Upper+Lower = FSL Panel Height - 31 1/2"[800.1]
EX-SL Top	EX-SL Top Panel Height - 9 15/16" [248.4]
EX-SL Bottom	EX-SL Bottom Panel Height - 16" [406.4]

NOTE: Upper & Lower FSL DLOs are variable based on selected muntin height. Total FSL DLO remains constant.

Exterior



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PROFESSIONAL ENGINEER

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SHEET DESCRIPTION	SHEET NO. 5 OF 26

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ALLOWABLE PRESSURES (PSF) FOR GLASS TYPE 1 (LMI LEVEL D) BI-PART WITH 4-POINT LOCK		
		FRAME WIDTH (in)
		96-120
FRAME HEIGHT (in)	90	±80.0
	92	
	94	
	96	
	98	
	100	
	102	
	104	

ALLOWABLE PRESSURES (PSF) FOR GLASS TYPE 4 (NON-IMPACT**) BI-PART WITH 4-POINT LOCK		
		FRAME WIDTH (in)
		96-120
FRAME HEIGHT (in)	90	±80.0
	92	
	94	
	96	
	98	
	100	
	102	
	104	

**SHUTTERS ARE REQUIRED FOR WINDBORNE DEBRIS REGIONS

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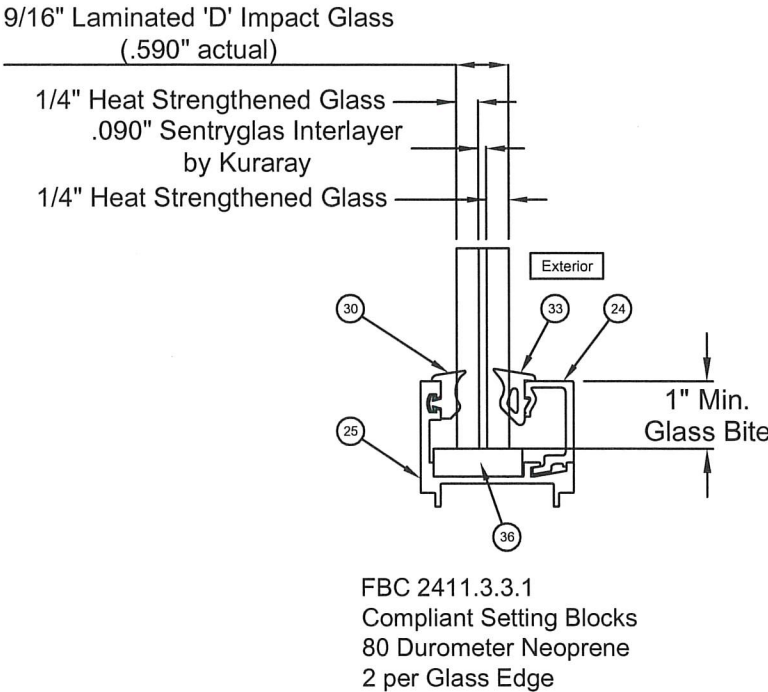
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	SHEET DESCRIPTION	
SHEET NO. 6 OF 26		
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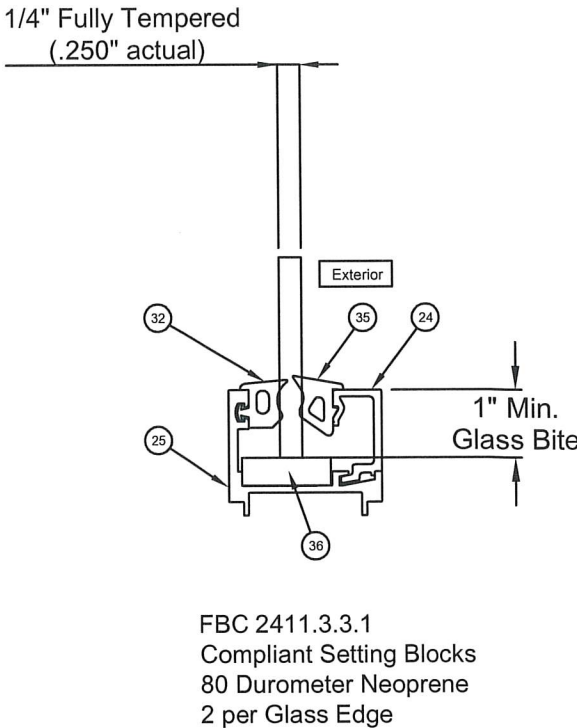
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Rev	Description	Date	Approved
2	Added EX-SL Option Details	05/24/22	CBG

Glass Type 1
9/16" LAMINATED GLASS



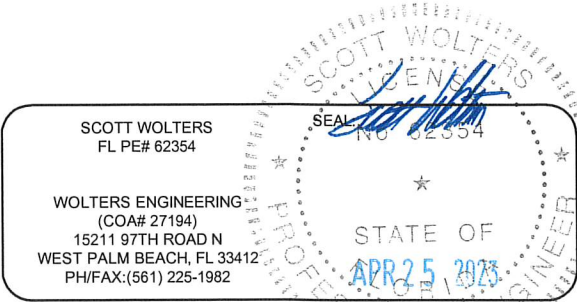
LEVEL D
LARGE AND SMALL MISSILE IMPACT

Glass Type 4
1/4" TEMPERED GLASS



NON-IMPACT

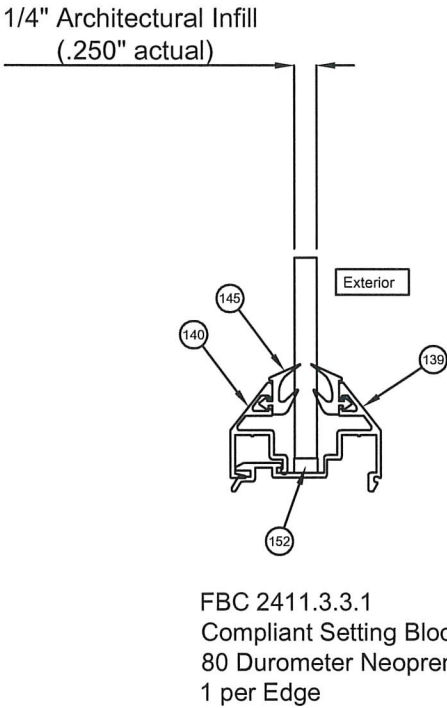
NOTE: GLASS TYPE 4 IS NOT IMPACT RESISTANT. AN IMPACT RESISTANT SHUTTER SYSTEM IS REQUIRED FOR USE IN WINDBORNE DEBRIS REGIONS.



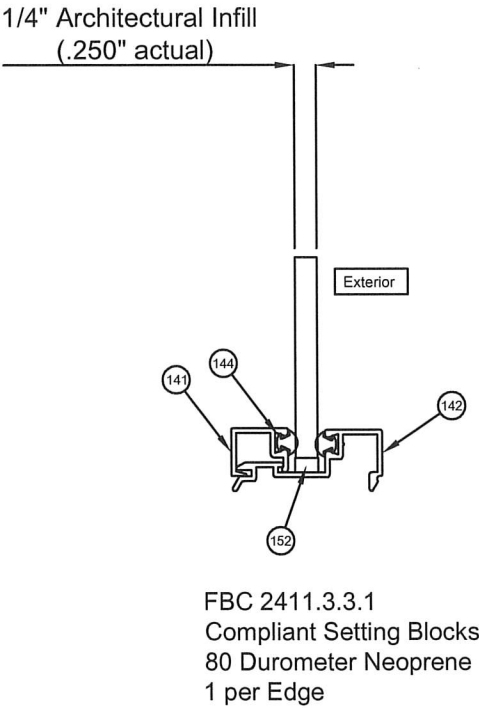
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SHEET DESCRIPTION	SHEET NO. 7 OF 26

EX OPTION DOOR
1/4" ARCHITECTURAL INFILL

SLOPED
GUTTER AND SNAP



STANDARD
GUTTER AND SNAP



NON-IMPACT

NOTE: ARCHITECTURAL INFILL IS REQUIRED FOR EX-SW AND EX-SL PANELS,
HURRICANE RATED GLASS IS NOT AVAILABLE FOR THESE PANELS.

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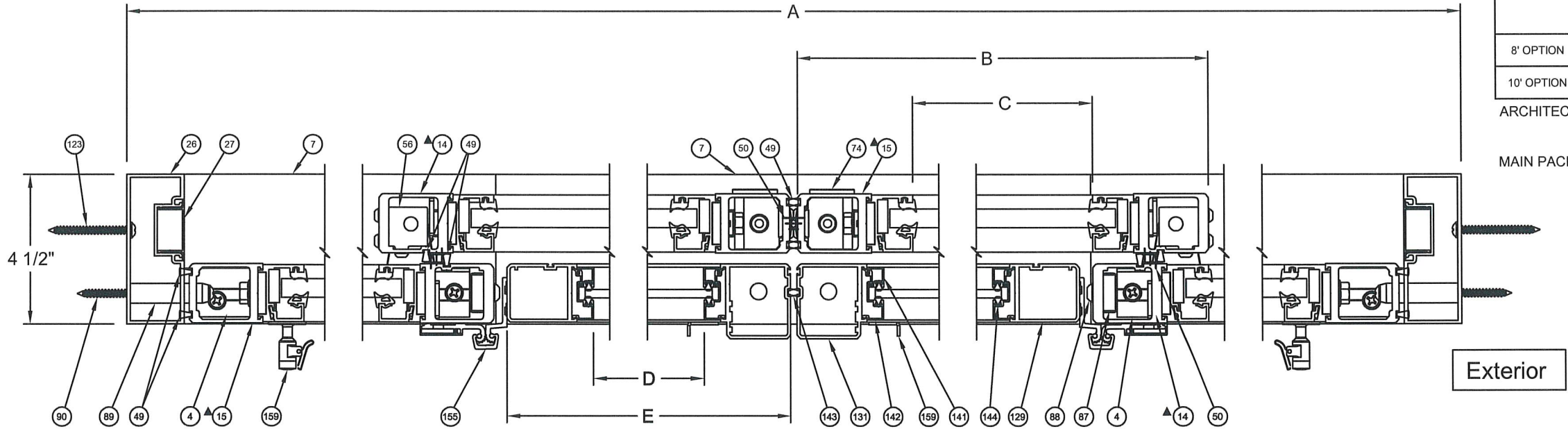
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DWG NO.	1022586		
DRAWN BY	JTG	DATE	05/24/2022
SHEET DESCRIPTION		SHEET NO. 8 OF 26	

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Revisions			
Rev	Description	Date	Approved
2	Added EX-SL Option Details	05/24/22	CBG

▲ US Patent 11,448,003 B2

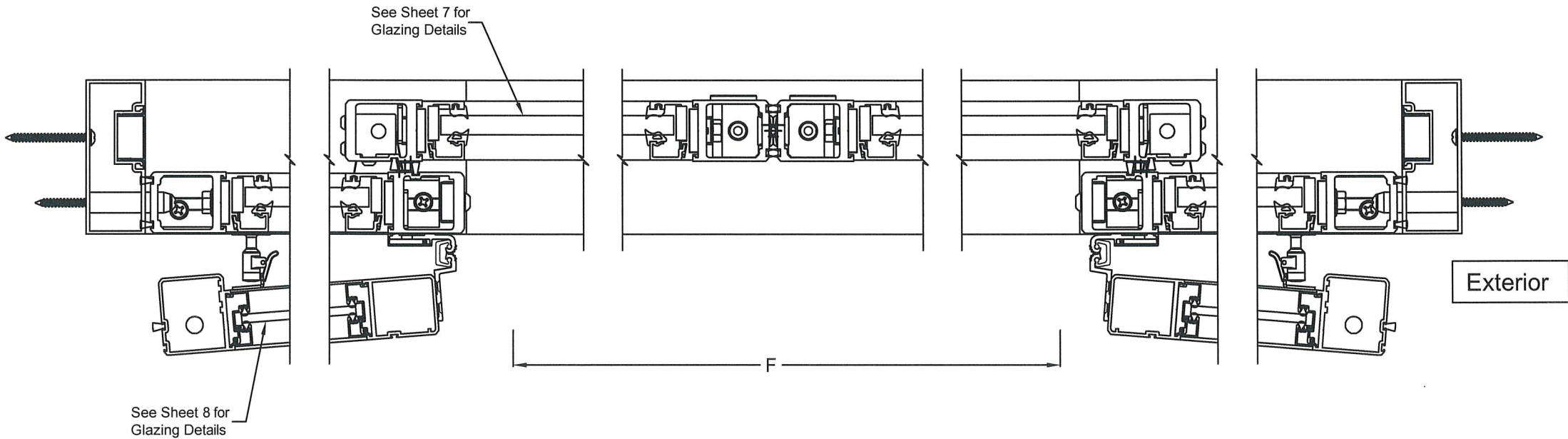


Section C-C
EX-SW OPTION DOORS CLOSED SHOWN

	OVERALL FRAME WIDTH (A)	PANEL WIDTH (B)	DLO WIDTH (C)	EX-SW PANEL WIDTH (D)	EX-SW PANEL DLO WIDTH (E)	CLEAR DOOR OPENING (F)
8' OPTION	96" [2438.4]	24 3/4" [628.7]	17 3/4" [450.9]	20 1/2" [520.7]	15 1/4" [387.4]	29 1/2" [749.3]
10' OPTION	120" [3048]	30 3/4" [781.1]	23 3/4" [603.3]	26 1/2" [673.1]	21 1/4" [539.8]	42 1/8" [1070.0]

ARCHITECTURAL INFILL FORMULA: WIDTH: D-4 3/4" [120.7]
HEIGHT: EX-SW PANEL HEIGHT- 14 1/2" [368.3]

MAIN PACKAGE GLASS FORMULA: WIDTH: A/4 - 4 3/4" [120.7]
HEIGHT: OFH - 20 1/2" [520.7]



Section C-C
EX-SW OPTION DOORS OPEN SHOWN

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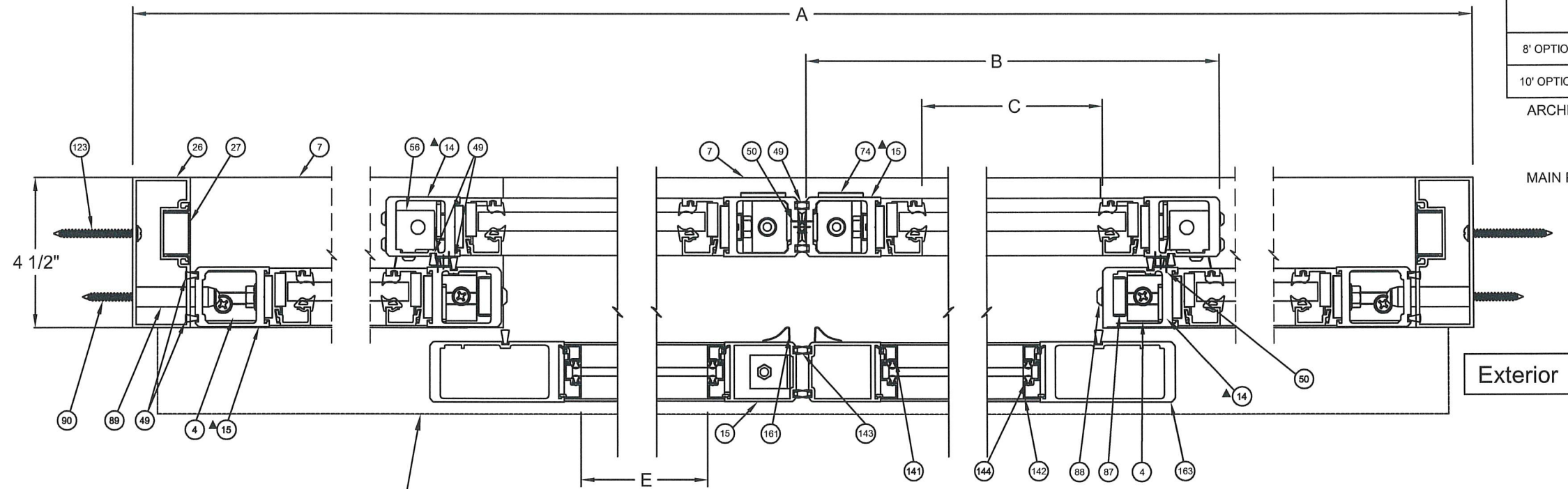
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NO 62354

STATE OF
APR 25 2023

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SHEET DESCRIPTION	SHEET NO. 9 OF 26

Revisions			
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2	Added EX-SL Option Details	05/24/22	CBG

▲ US Patent 11,448,003 B2



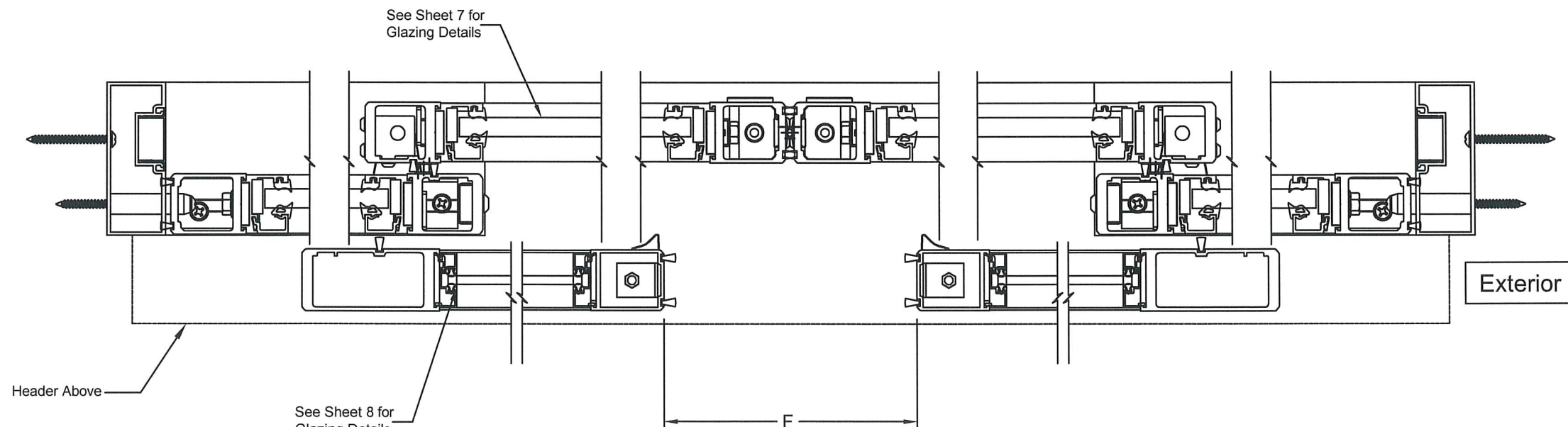
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**Section C-C
EX-SL OPTION DOORS CLOSED SHOWN**

	OVERALL FRAME WIDTH (A)	PANEL WIDTH (B)	DLO WIDTH (C)	EX-SL PANEL WIDTH (D)	EX-SL PANEL DLO WIDTH (E)	CLEAR DOOR OPENING (F)
8' OPTION	96" [2438.4]	24 3/4" [628.7]	17 3/4" [450.9]	24 3/4" [628.7]	17 5/8" [447.7]	29 1/2" [749.3]
10' OPTION	120" [3048]	30 3/4" [781.1]	23 3/4" [603.3]	30 3/4" [781.1]	23 5/8" [600.1]	42 1/8" [1070.0]

ARCHITECTURAL INFILL FORMULA: WIDTH: D - 6 5/8" [168.3]
TOP PANEL INFILL HEIGHT: 5 5/16" [134.9]
BOTTOM PANEL INFILL HEIGHT: 24 1/4" [616.0]

MAIN PACKAGE GLASS FORMULA: WIDTH: A/4 - 4 3/4" [120.7]
HEIGHT: OFH - 20 1/2" [520.7]



Header Above

See Sheet 8 for
Glazing Details

See Sheet 7 for
Glazing Details

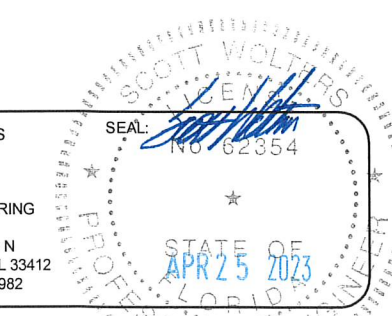
**Section C-C
EX-SL OPTION DOORS OPEN SHOWN**

Exterior

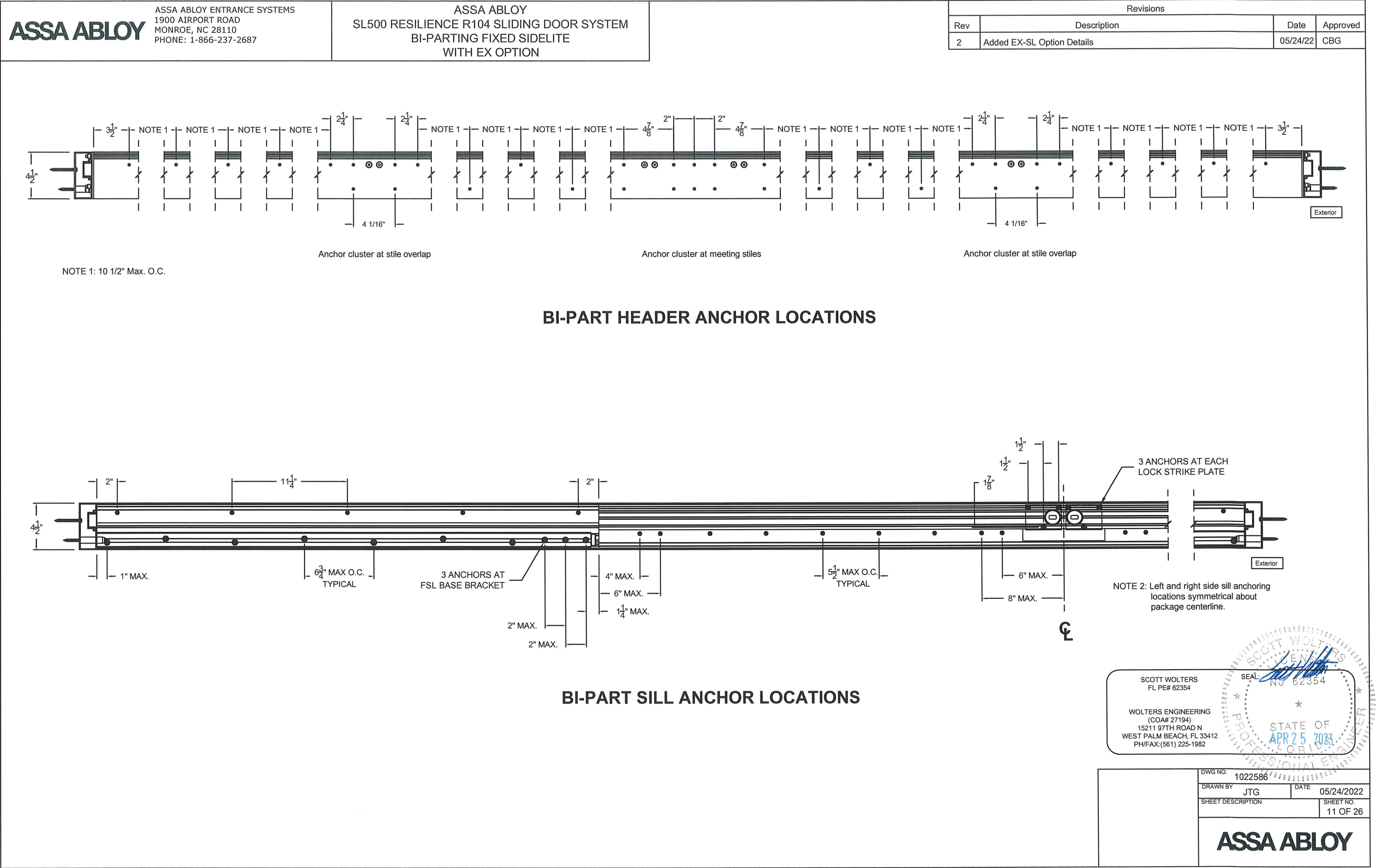
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DRAWN BY JTG	SHEET NO. 10 OF 26
SHEET DESCRIPTION	



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ASSA ABLOY ENTRANCE SYSTEMS
1900 AIRPORT ROAD
MONROE, NC 28110
PHONE: 1-866-237-2687

ASSA ABLOY

SL500 RESILIENCE R104 SLIDING DOOR SYSTEM
BI-PARTING FIXED SIDELITE
WITH EX OPTION

Revisions

Rev	Description	Date	Approved
2	Added EX-SL Option Details	05/24/22	CBG

EX-SL HEADER MOUNTS TO MAIN HEADER. LOCATIONS ARE SHOWN.

EX-SL HEADER ANCHOR LOCATIONS

EX-SL SILL ANCHOR LOCATIONS

TYPICAL EX-SL SILL ANCHOR DETAILS IN CONCRETE

AT SIDELITE THRESHOLD

SEALANT BY INSTALLER

1/4" MAX. SHIM SPACE

EXTERIOR

#12 SHEET METAL SCREW INCLUDED WITH NON-PANIC BOTTOM GUIDE ASSEMBLY

1 3/4" MIN. EMBED.

3/16" ELCO ULTRACON INSTALLATION FASTENERS, SEE TABLE 1 ON SHEET 21

2 1/2" MIN. EDGE DIST., APPLIES TO BOTH EXT. AND INT. SIDES, APPLIES TO ALL INSTALL ANCHORS

SOLID CONCRETE BY OTHERS, SEE TABLE 1 ON SHEET 21

AT OPERABLE THRESHOLD

TYPICAL EX-SL SILL ANCHOR DETAILS IN WOOD

AT SIDELITE THRESHOLD

SEALANT BY INSTALLER

1/4" MAX. SHIM SPACE

EXTERIOR

#12 SHEET METAL SCREW INCLUDED WITH NON-PANIC BOTTOM GUIDE ASSEMBLY

1 3/8" MIN. EMBED.

#10 GR. 5 WOOD SCREW INSTALLATION FASTENERS, SEE TABLE 1 ON SHEET 21

1" MIN. EDGE DIST., APPLIES TO BOTH EXT. AND INT. SIDES, APPLIES TO ALL INSTALL ANCHORS

WOOD SUBSTRATE BY OTHERS, SEE TABLE 1 ON SHEET 21

AT OPERABLE THRESHOLD

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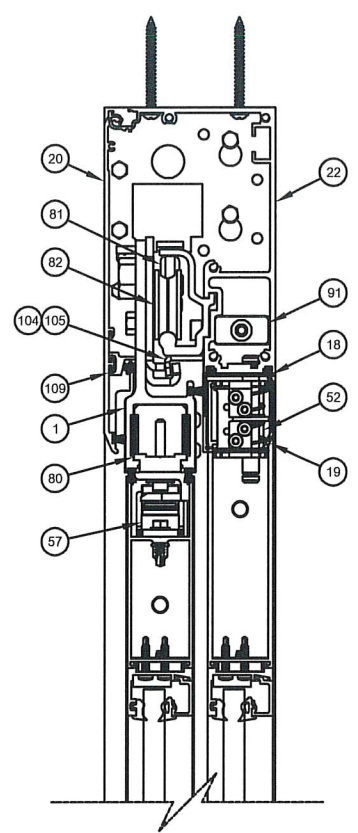
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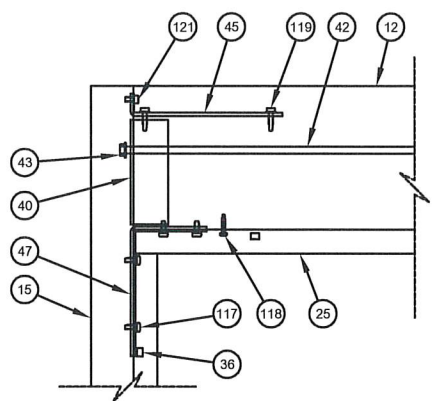
DATE 05/24/2022

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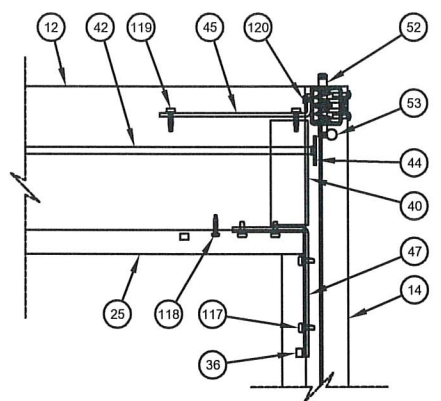
ASSA ABLOY



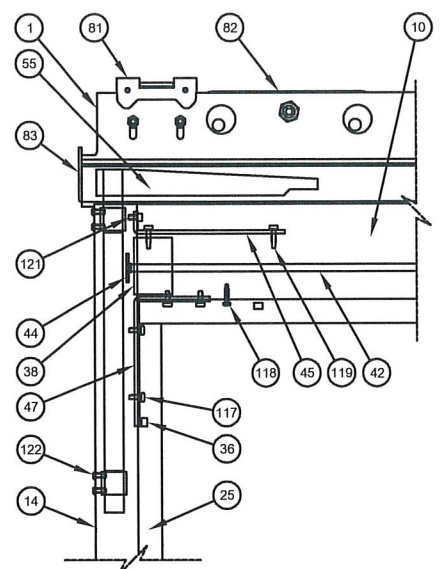
Section A-A



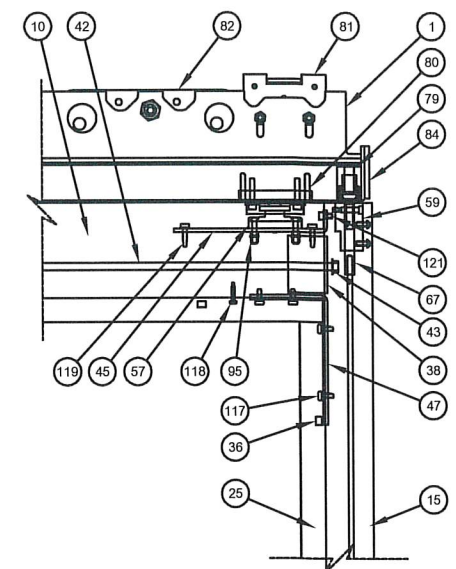
Sidelite
Top Jamb Corner



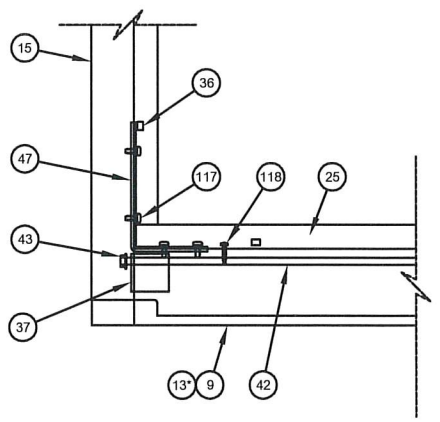
Sidelite
Top Lead Corner



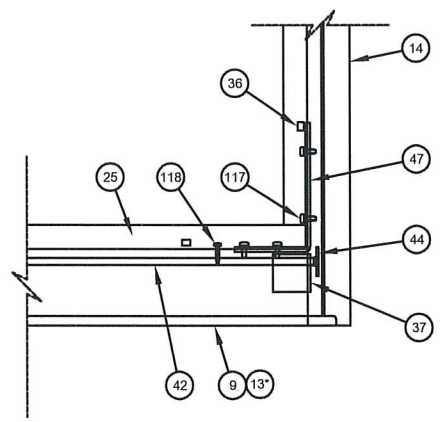
Active Leaf
Top Jamb Corner



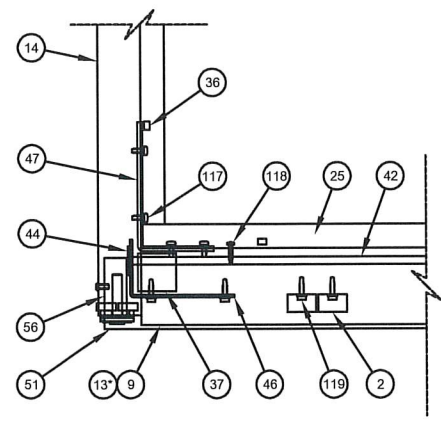
Active Leaf
Top Lead Corner



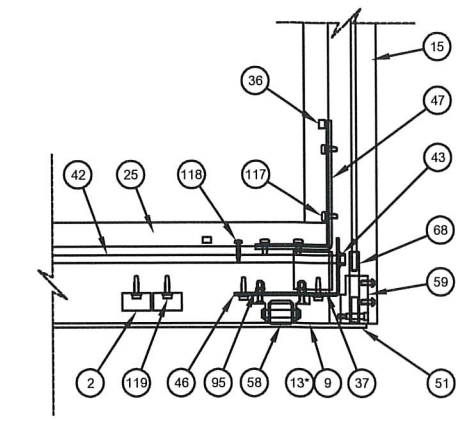
Sidelite
Bottom Jamb Corner



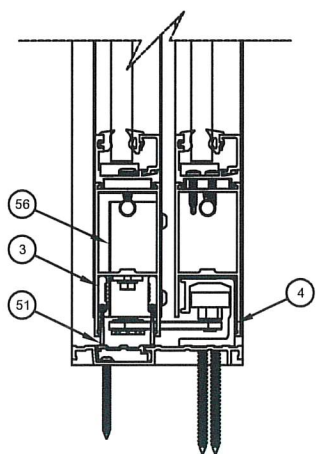
Sidelite
Bottom Lead Corner



Active Leaf
Bottom Jamb Corner



Active Leaf
Bottom Lead Corner



Section B-B

NOTE: * Denotes option for bottom rail size.

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
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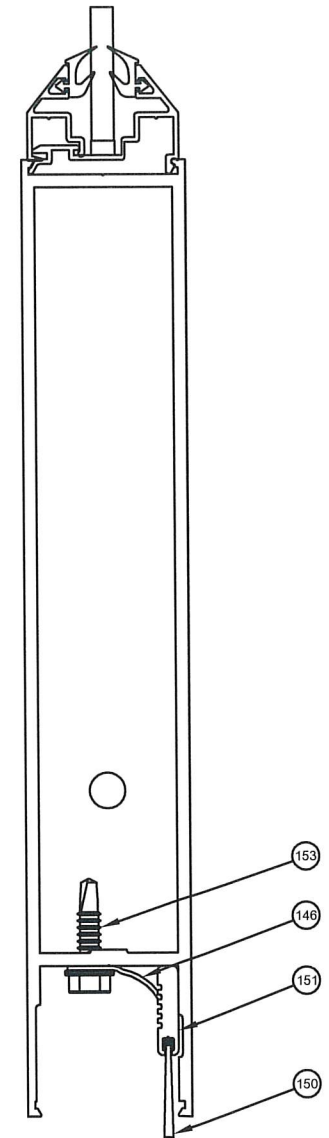
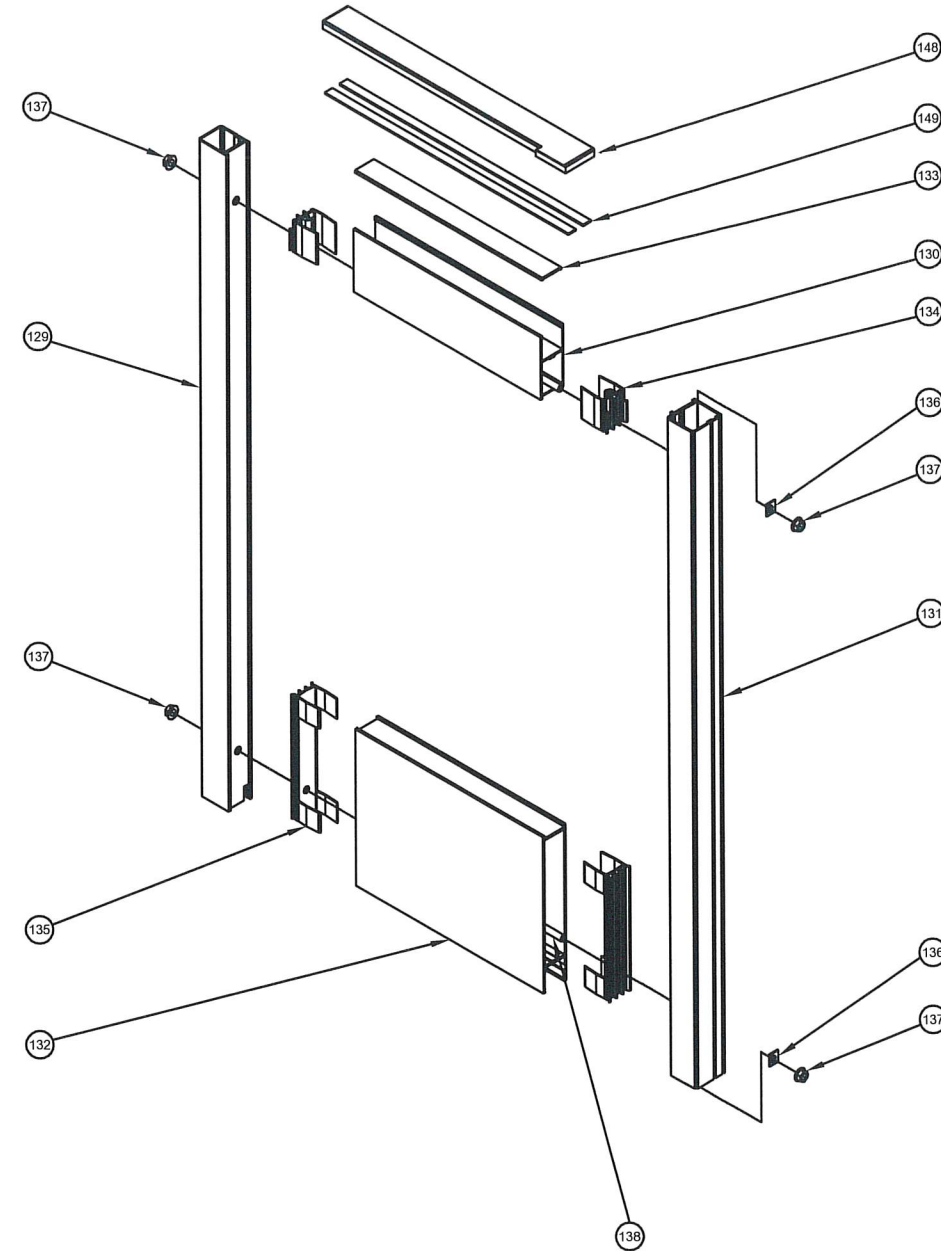
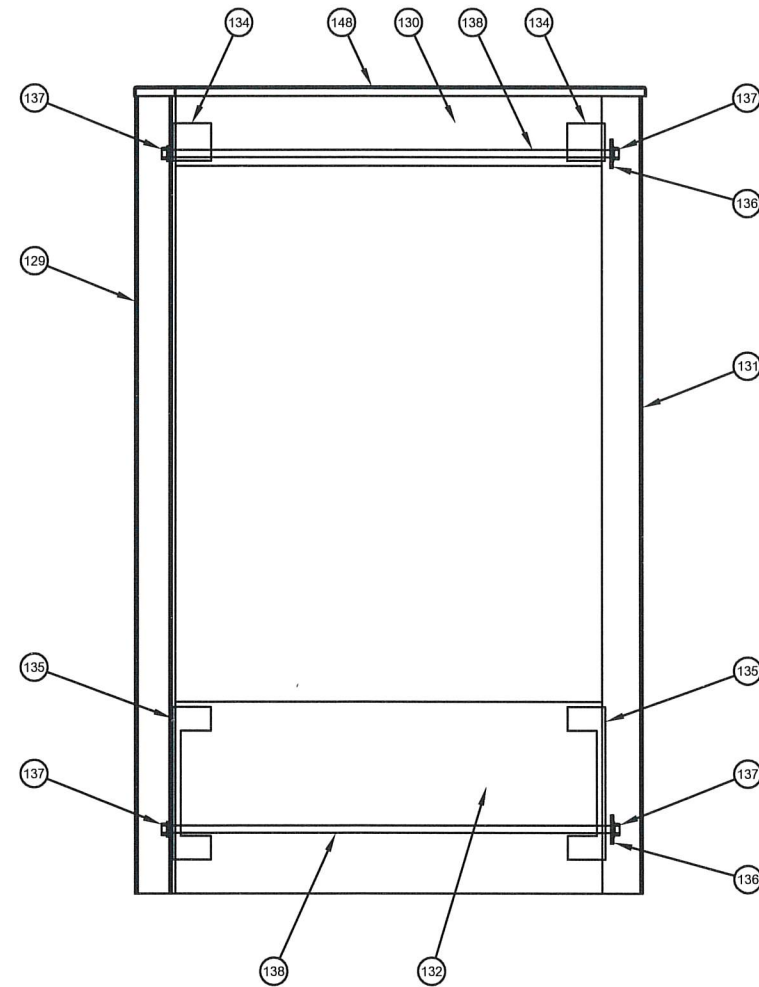
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No 62354

STATE OF
APR 25 2023

DWG NO.	1022586
DRAWN BY	JTG
DATE	05/24/2022
SHEET DESCRIPTION	
SHEET NO.	13 OF 26

ASSA ABLOY

Revisions			
Rev	Description	Date	Approved
2	Added EX-SL Option Details	05/24/22	CBG



Section E-E

EXTERIOR, LEFT HAND
EX-SW OPTION DOOR SHOWN

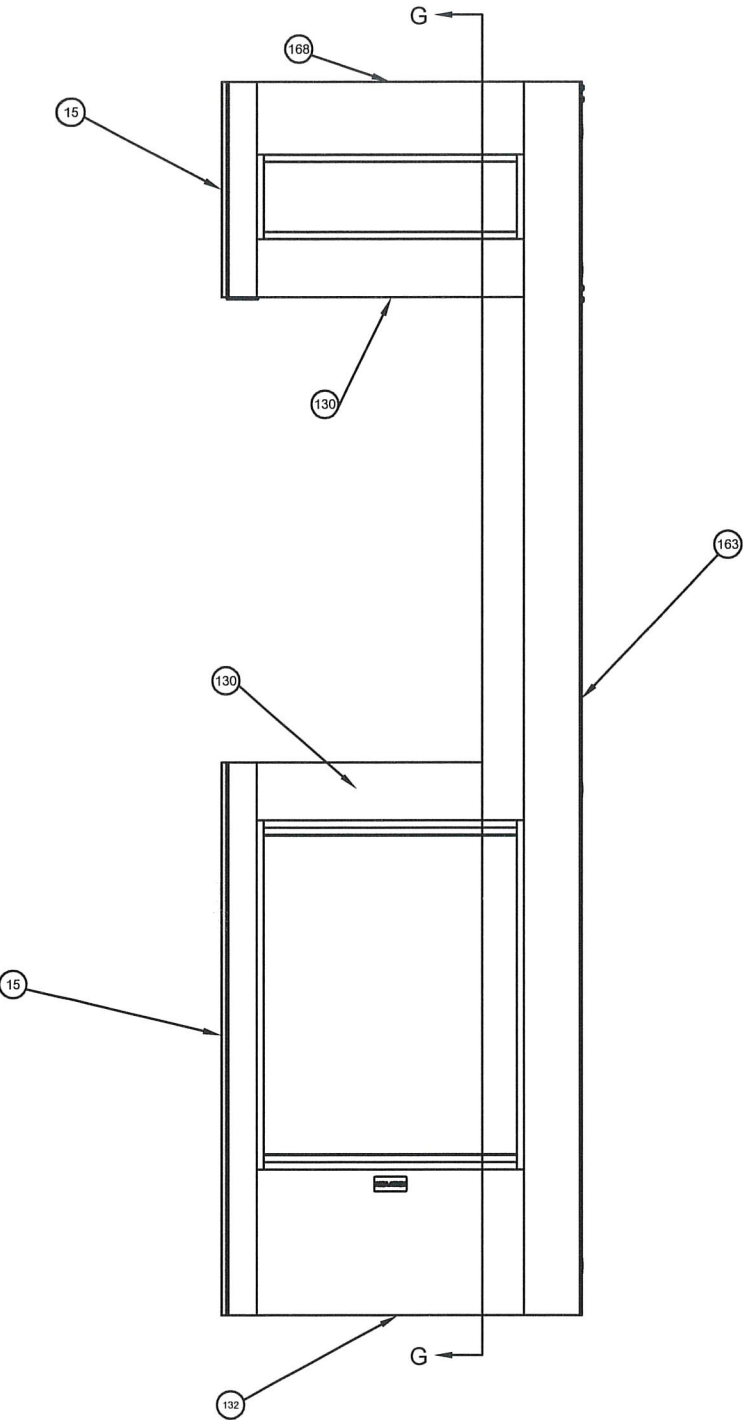
SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX:(561) 225-1982

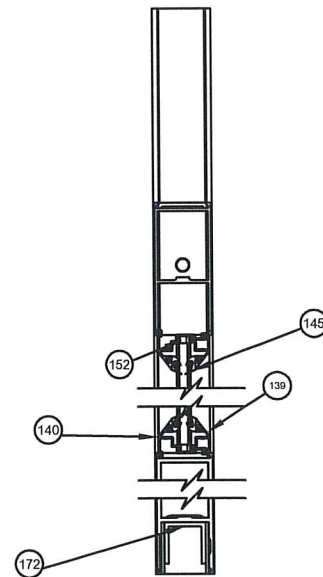
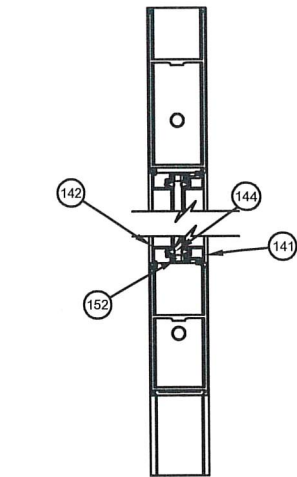
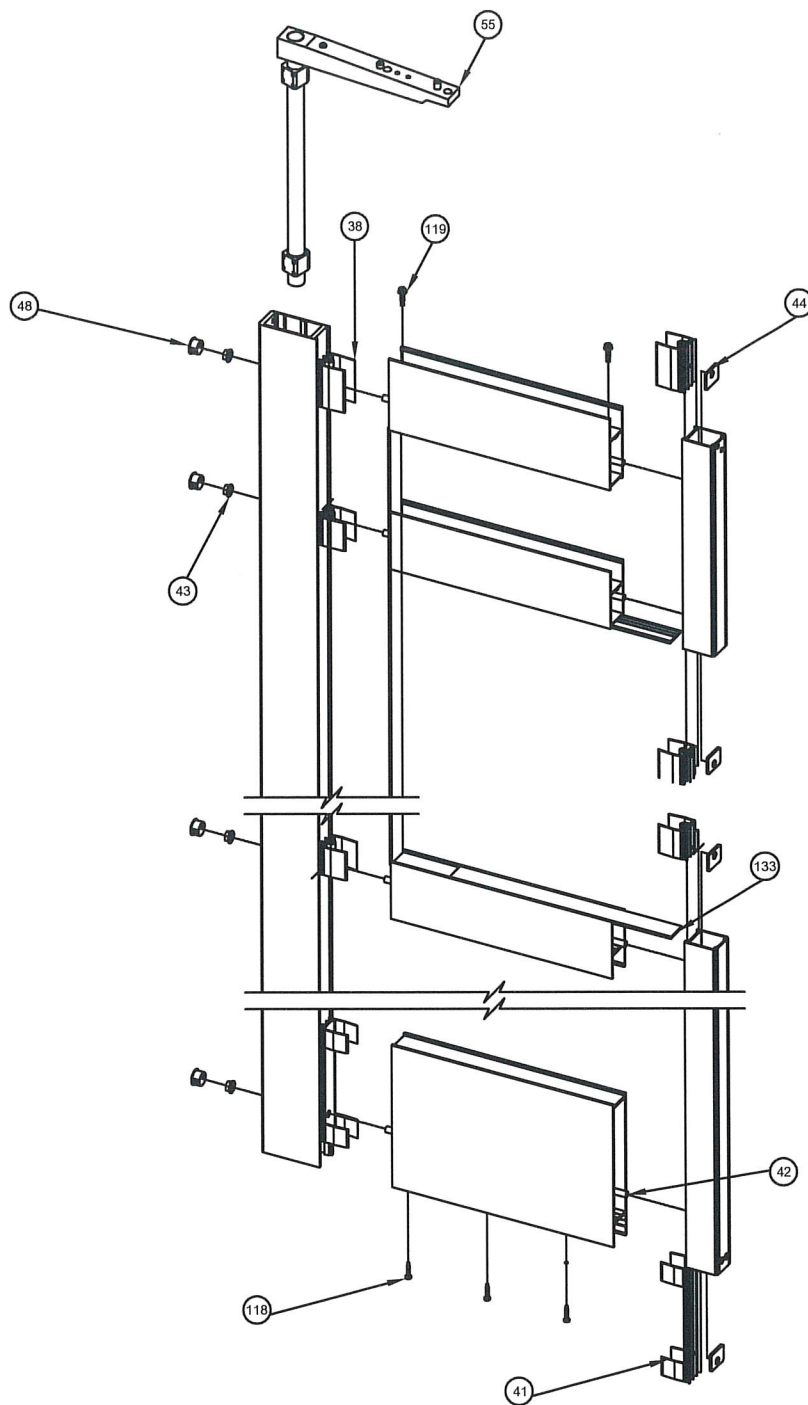
SEAL
NO 62354
STATE OF
APR 25 2023

DWG NO. 1022586		DATE 05/24/2022	
DRAWN BY JTG		SHEET NO. 14 OF 26	
SHEET DESCRIPTION		ASSA ABLOY	

Revisions			
Rev	Description	Date	Approved
2	Added EX-SL Option Details	05/24/22	CBG



**EXTERIOR, RIGHT HAND
EX-SL OPTION DOOR SHOWN**



Section G-G

SCOTT WOLTERS
FL PE# 62354

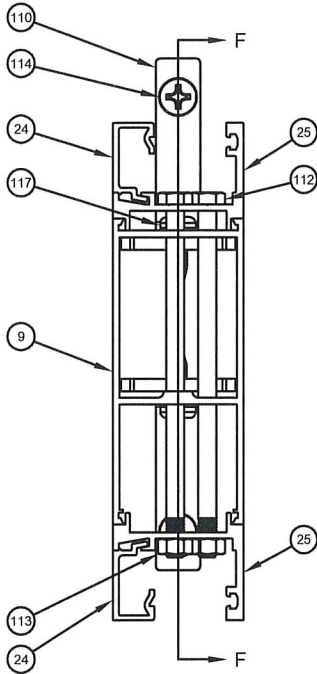
WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX: (561) 225-1982

SEAL: No 62354

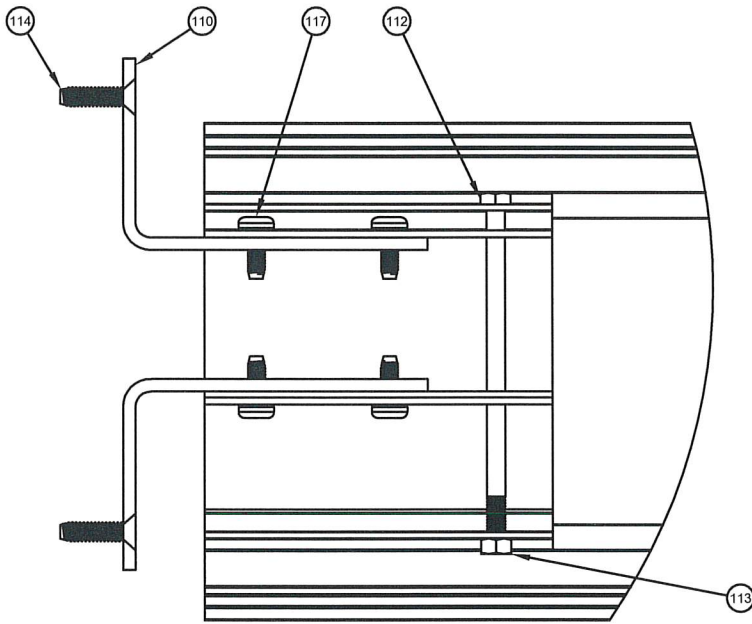
STATE OF FLORIDA
APR 25 2023

DWG NO. 1022586	DATE 05/24/2022
DRAWN BY JTG	SHEET NO. 15 OF 26
SHEET DESCRIPTION	

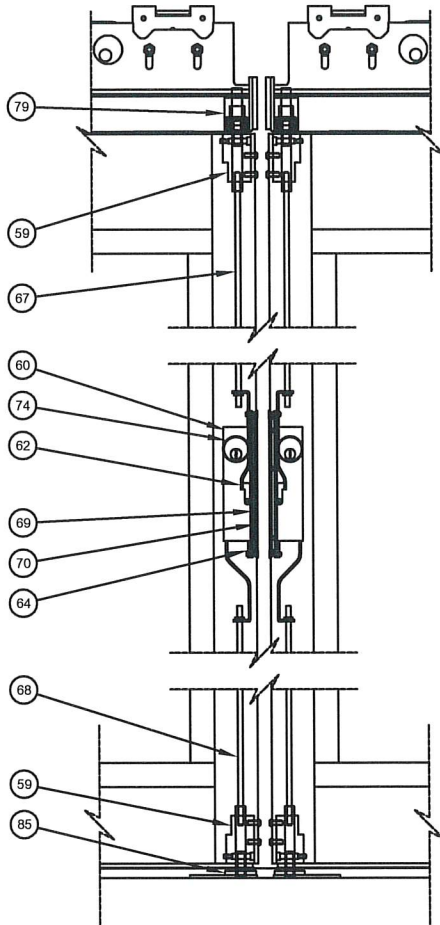
Revisions			
Rev	Description	Date	Approved
2	Added EX-SL Option Details	05/24/22	CBG



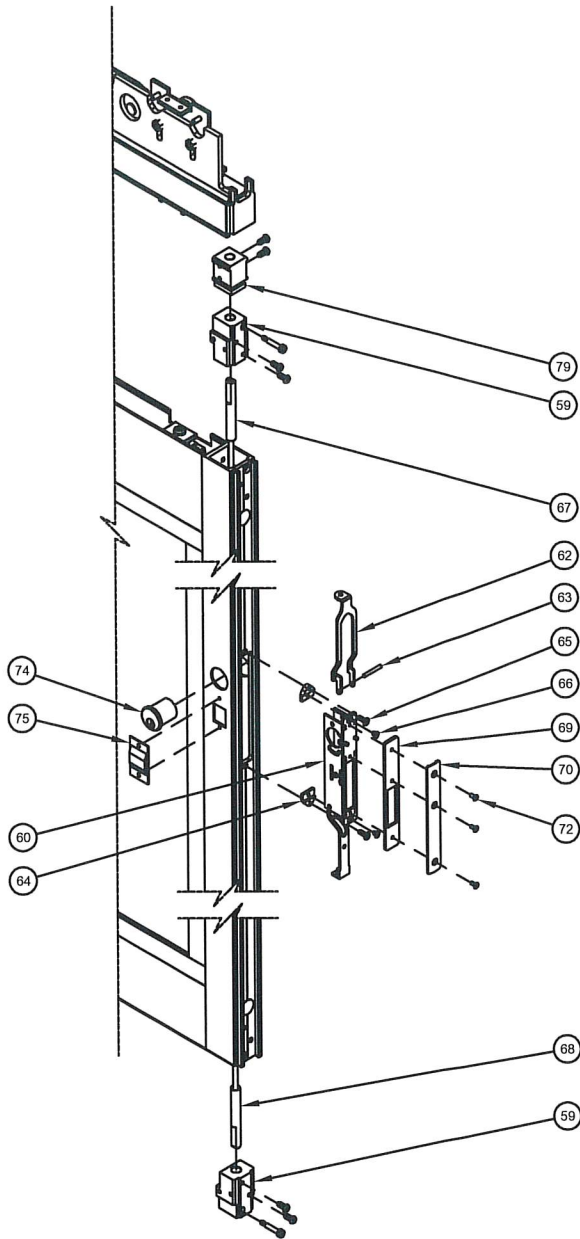
Section D-D
True Divided 4" Muntin



Section F-F
True Divided 4" Muntin



Bi-Part
4-Point Lock



Locking System

SCOTT WOLTERS
FL PE# 62354

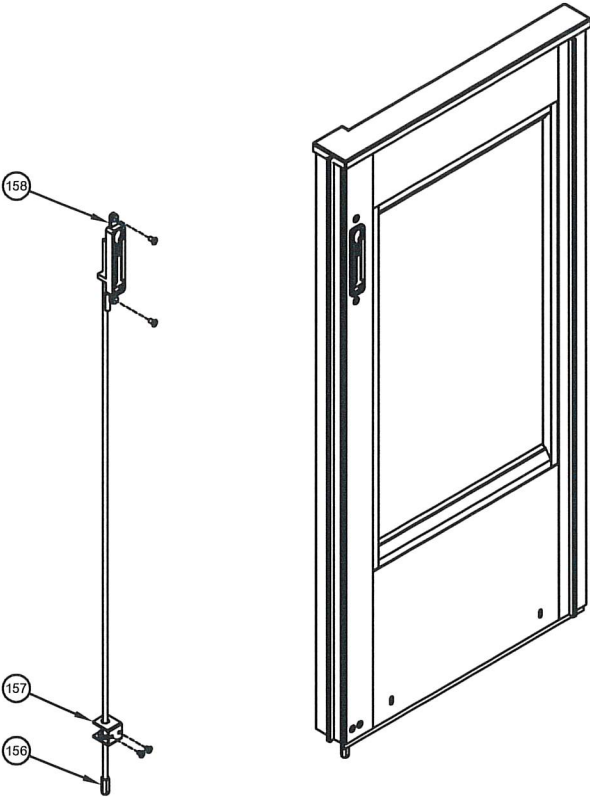
WOLTERS ENGINEERING
(COA# 27194)
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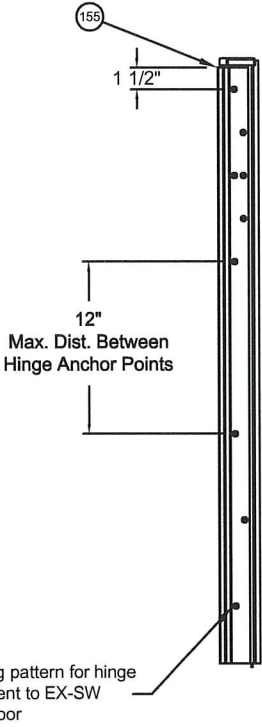
STATE OF
APR 25 2023

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DRAWN BY	JTG
DATE	05/24/2022
SHEET DESCRIPTION	SHEET NO. 16 OF 26

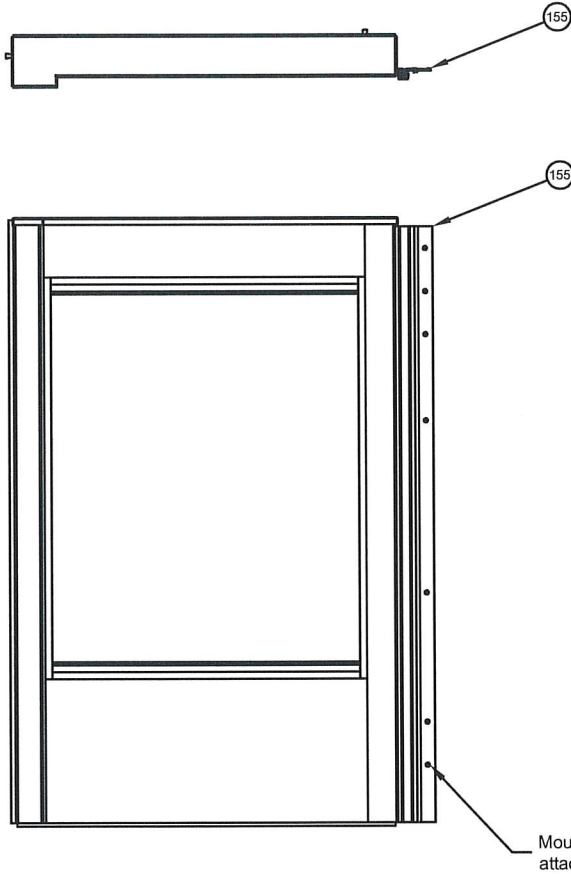
Revisions			
Rev	Description	Date	Approved
2	Added EX-SL Option Details	05/24/22	CBG



INTERIOR, LEFT HAND
EX-SW OPTION DOOR SHOWN

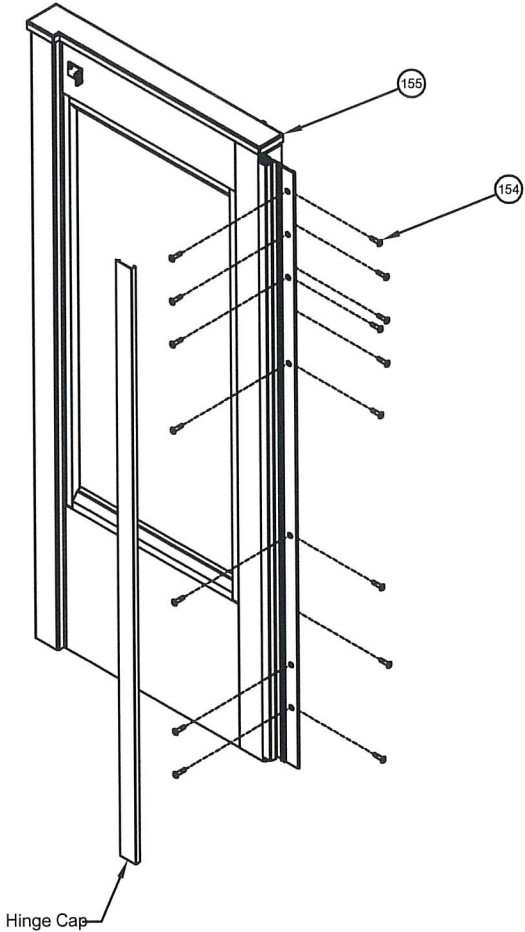


Mounting pattern for hinge
attachment to EX-SW
option door



EXTERIOR, RIGHT HAND
EX-SW OPTION DOOR SHOWN

Mounting pattern for hinge
attachment to Sidelite



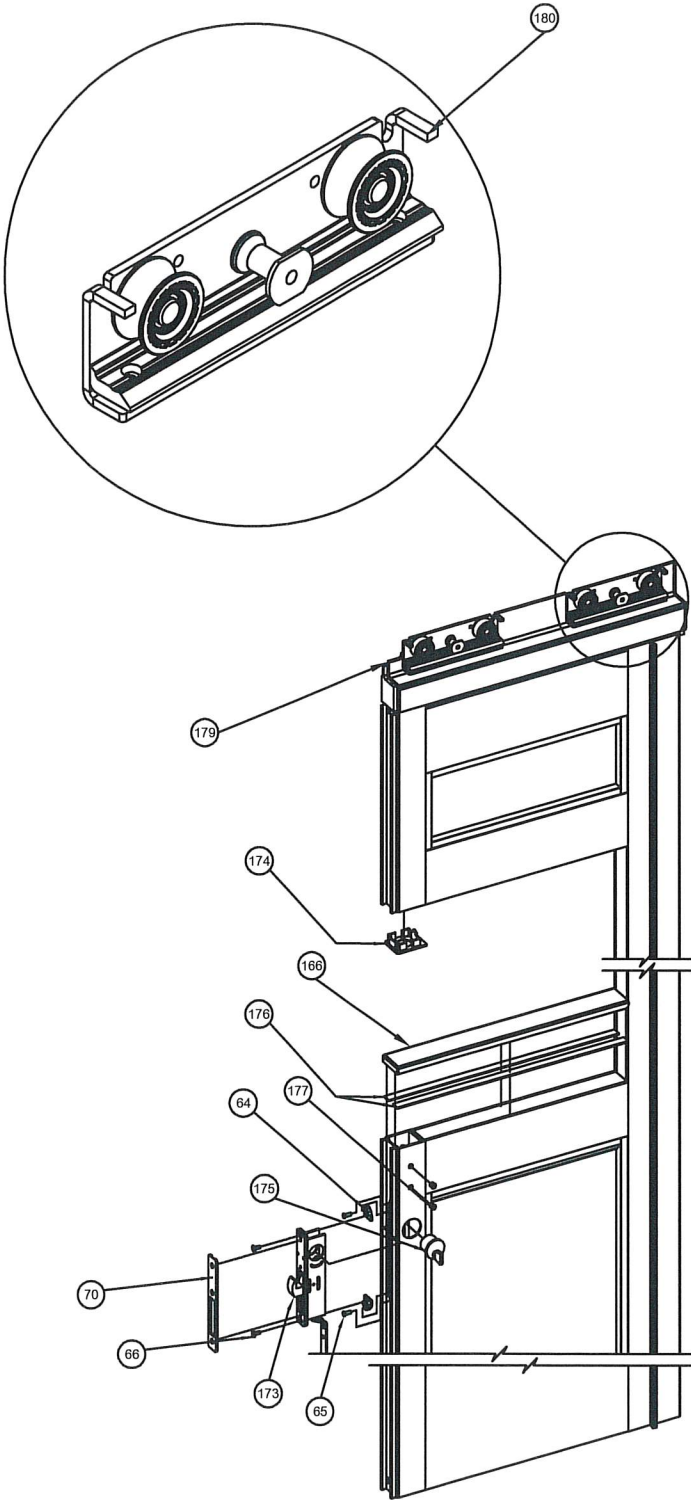
SCOTT WOLTERS
FL PE# 62354

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(COA# 27194)
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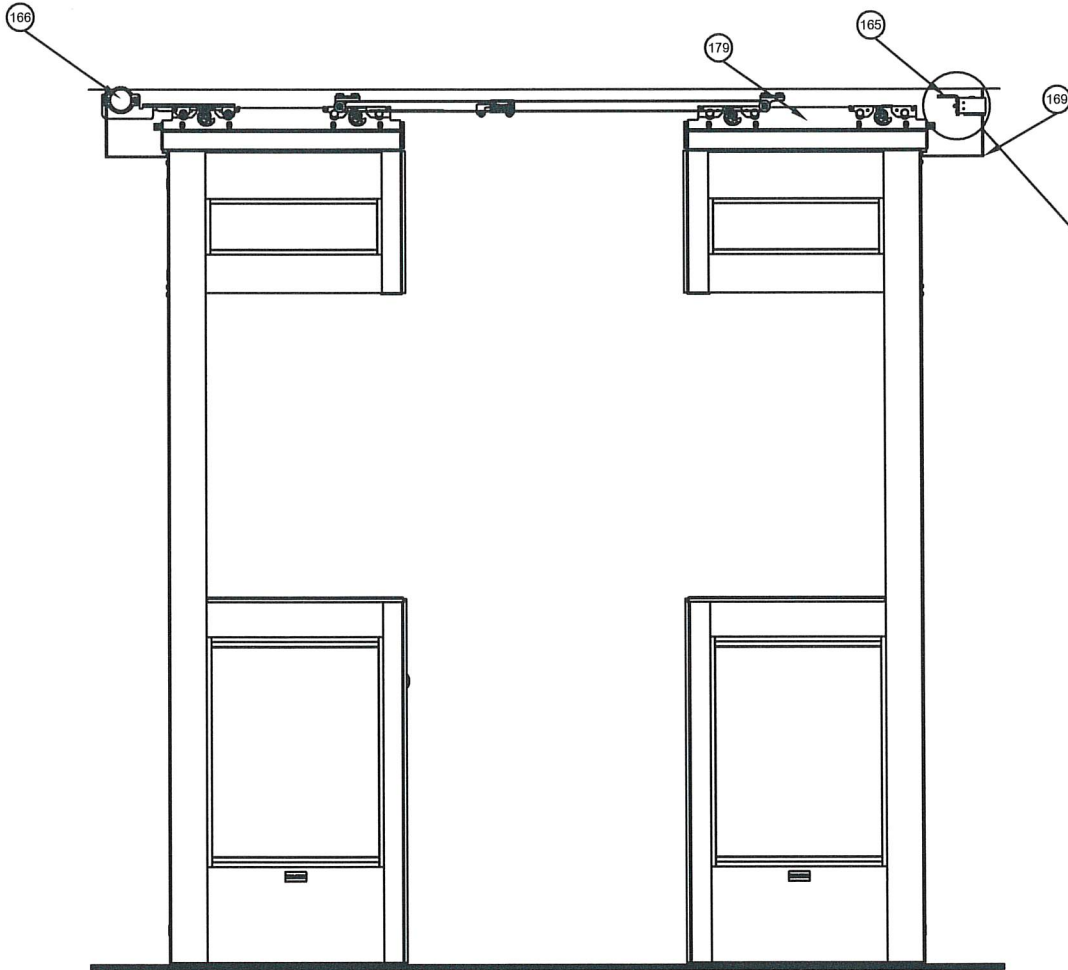
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STATE OF
APR 25 2023

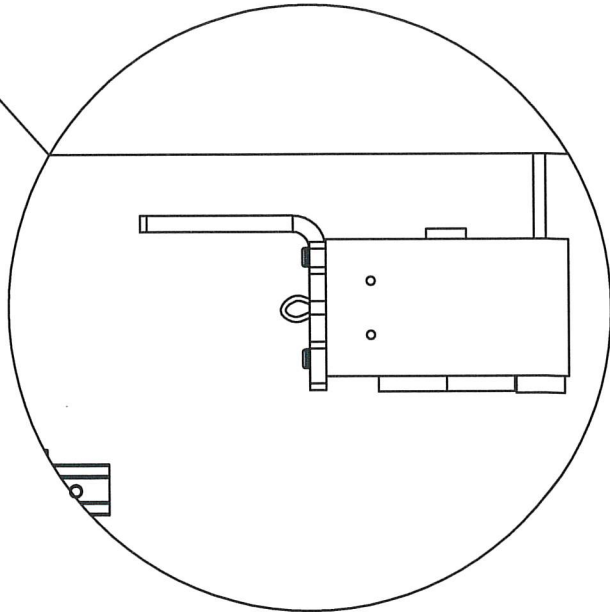
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DRAWN BY	JTG
DATE	05/24/2022
SHEET DESCRIPTION	SHEET NO. 17 OF 26



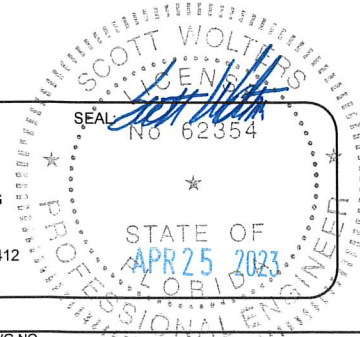
INTERIOR, LEFT HAND
EX-SL OPTION DOOR SHOWN



EXTERIOR EX-SL OPTION DOORS SHOWN



SPRING OPENER TO
AUTOMATICALLY OPEN
DOOR ONCE UNLOCKED

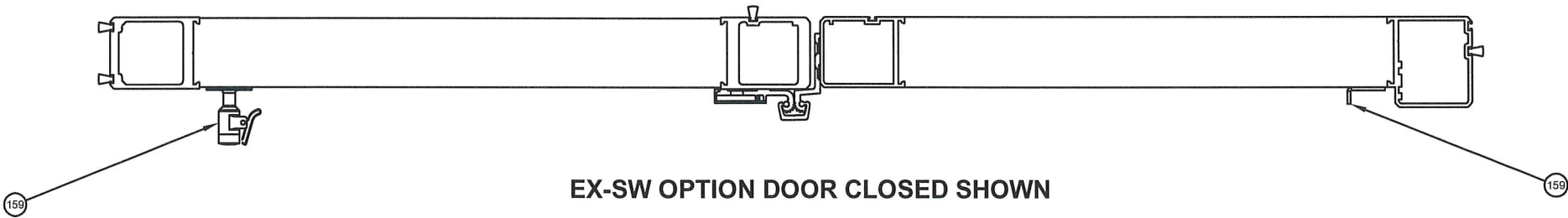


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FL PE# 62354

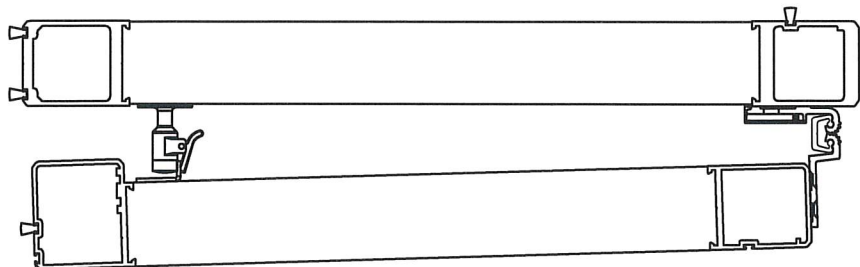
WOLTERS ENGINEERING
(COA# 27194)
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PH/FAX: (561) 225-1982

DWG NO.	1022586	DATE	05/24/2022
DRAWN BY	JTG	SHEET NO.	18 OF 26
SHEET DESCRIPTION			

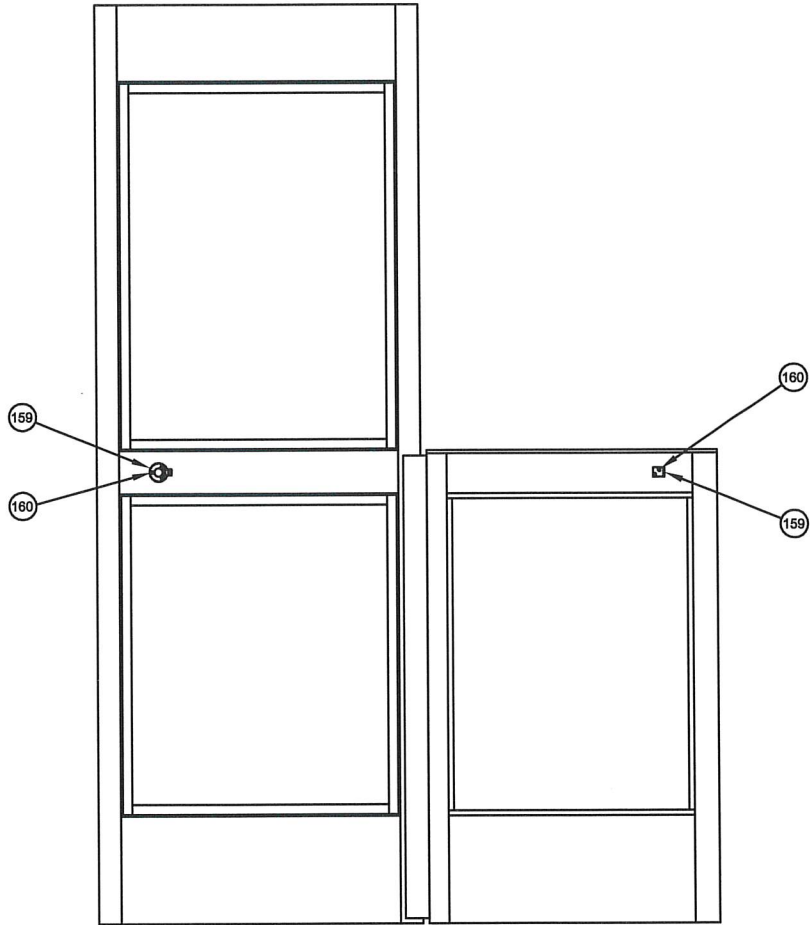
Revisions			
Rev	Description	Date	Approved
2	Added EX-SL Option Details	05/24/22	CBG



EX-SW OPTION DOOR CLOSED SHOWN



EX-SW OPTION DOOR OPEN SHOWN



EXTERIOR, LEFT HAND
SIDELITE WITH ATTACHED EX-SW OPTION DOOR
PANEL

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SEAL:  NO 62354

STATE OF
APR 25 2023

DWG NO. 1022586

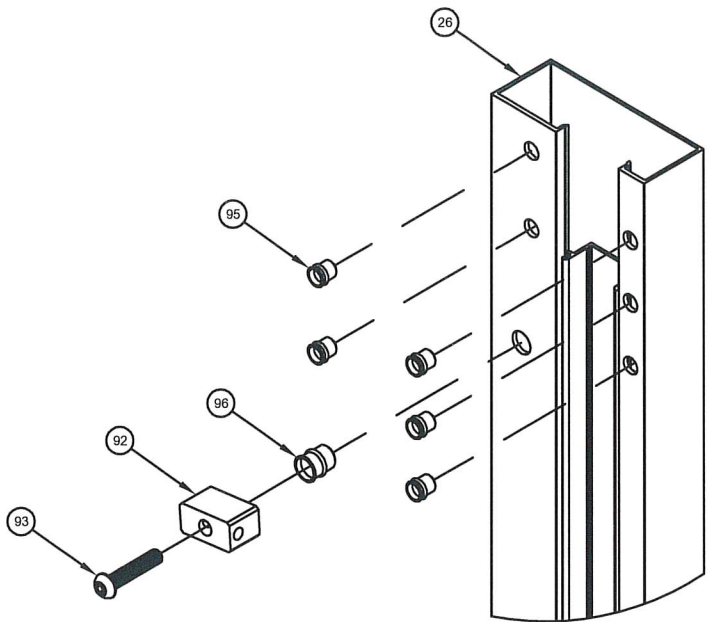
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DATE 05/24/2022

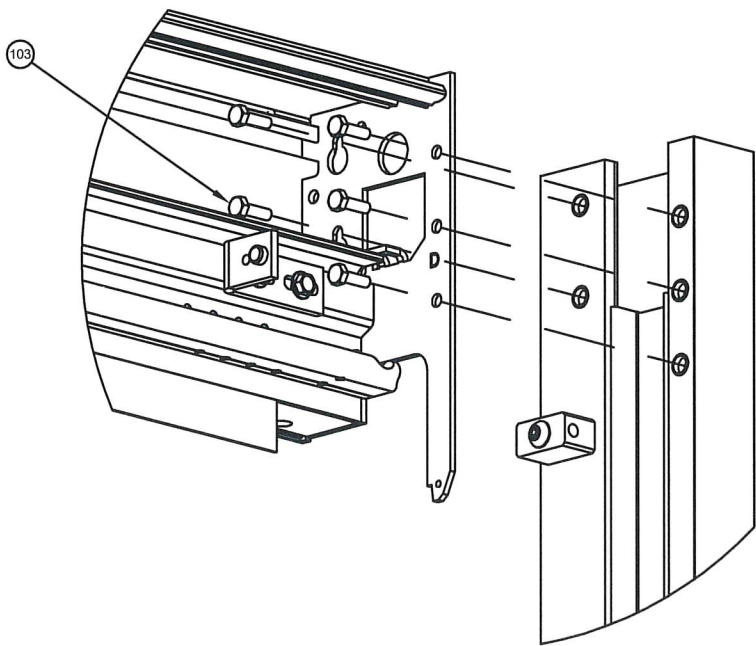
SHEET DESCRIPTION

SHEET NO.
19 OF 26

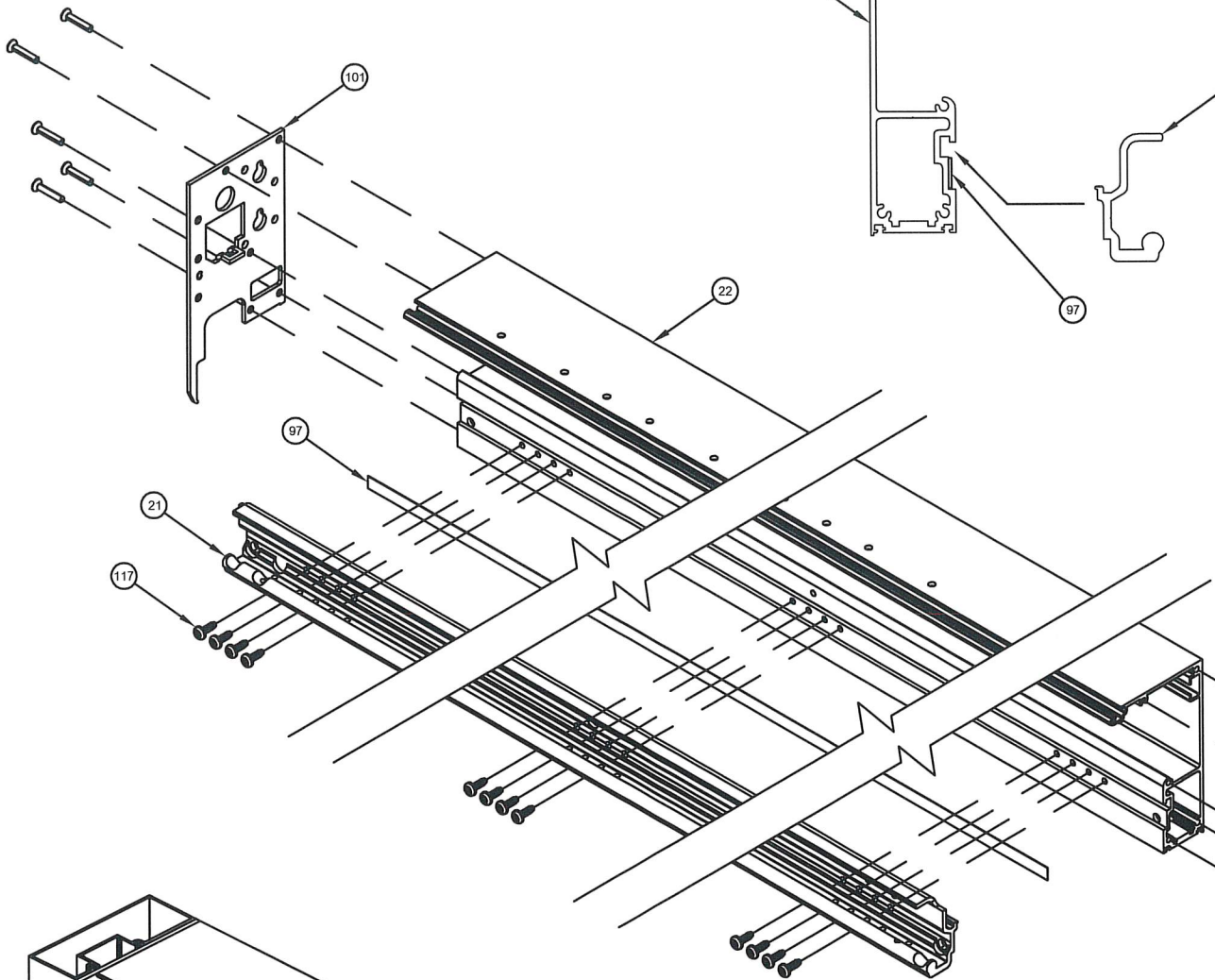
Revisions			
Rev	Description	Date	Approved
2	Added EX-SL Option Details	05/24/22	CBG



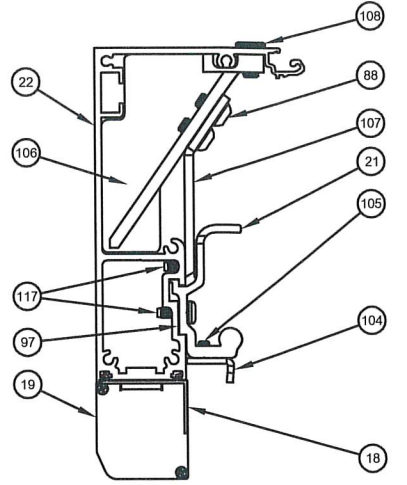
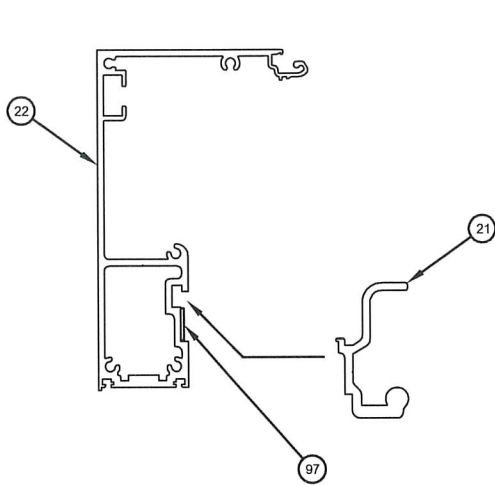
JAMB ASSEMBLY



TYPICAL BEAM TO JAMB



TYPICAL TRACK TO BEAM



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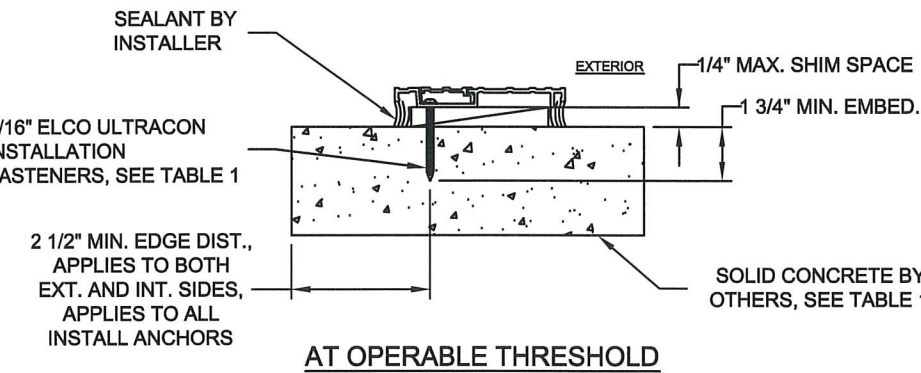
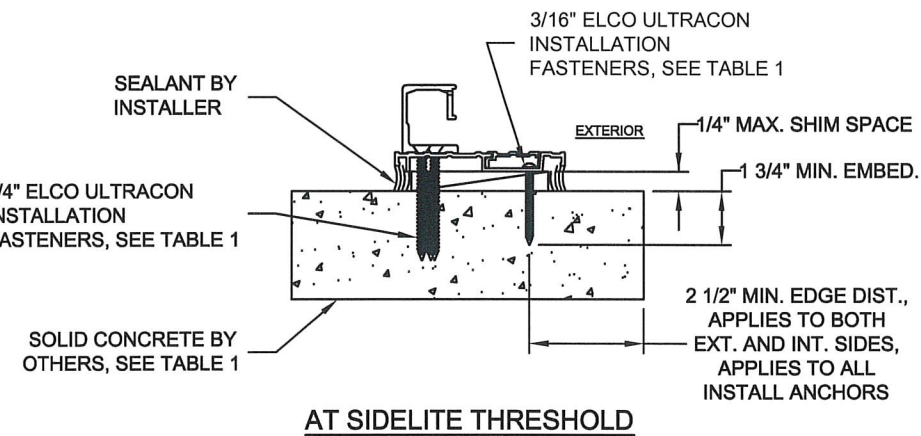
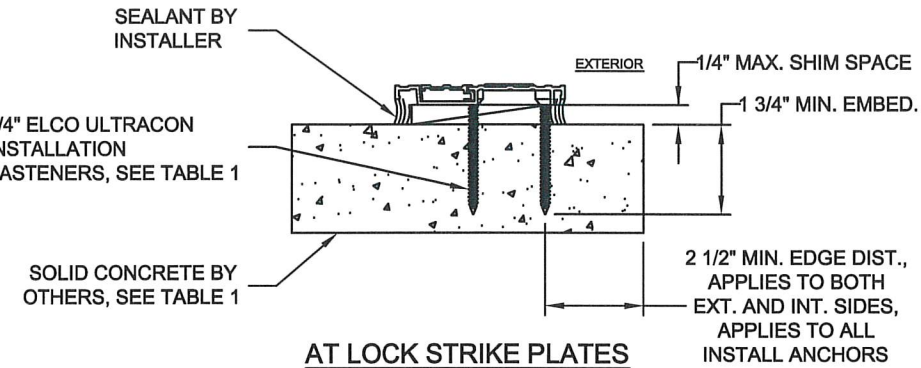
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STATE OF
APR 25 2023

DWG NO. 1022586	DATE 05/24/2022
DRAWN BY JTG	SHEET NO. 20 OF 26
SHEET DESCRIPTION	

Rev	Description	Date	Approved
2	Added EX-SL Option Details	05/24/22	CBG

TYPICAL SILL ANCHOR DETAILS IN CONCRETE



TYPICAL SILL ANCHOR DETAILS IN WOOD

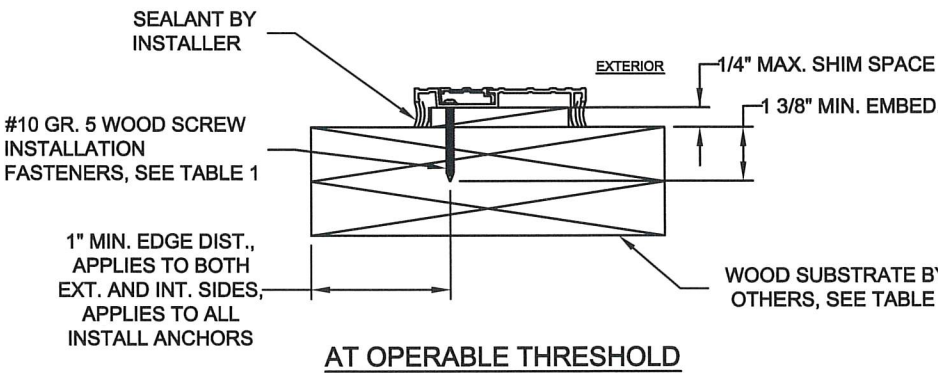
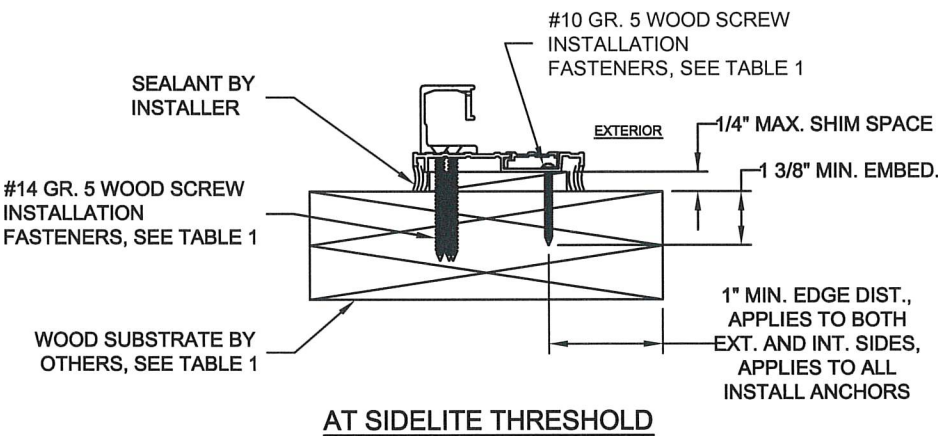
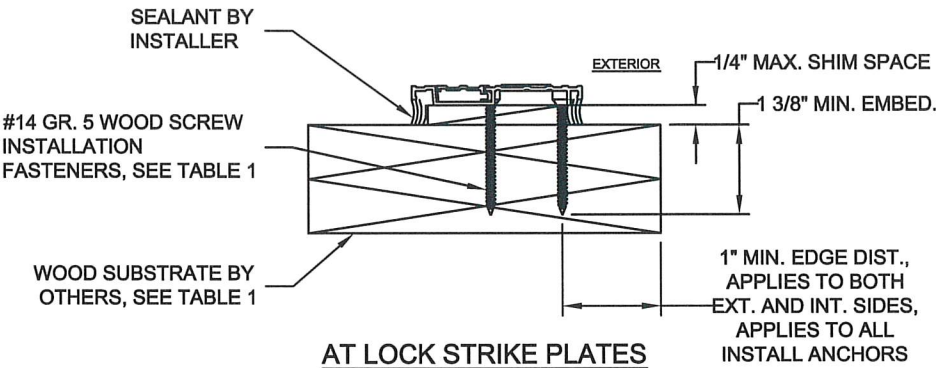


TABLE 1: INSTALLATION ANCHOR REQUIREMENTS

SUBSTRATE TYPE	ANCHOR TYPE	MINIMUM EMBEDMENT	MINIMUM EDGE DISTANCE
CONCRETE (2.85 ksi MIN)	1/4" DIA. ELCO ULTRACON (TYPICALLY)	1 3/4"	2 1/2"
	3/16" DIA. ELCO ULTRACON (AT THRESHOLD ONLY)	1 3/4"	2 1/2"
HOLLOW OR GROUT FILLED CMU (ASTM C90 MIN) (JAMBS ONLY)	1/4" DIA. ELCO ULTRACON	1 3/4"	2 1/2"
2X P.T. WOOD (S.G. = 0.55, MIN)	#14 GRADE 5 WOOD SCREW	1 3/8"	1"
	#10 GRADE 5 WOOD SCREW	1 3/8"	1"
STEEL STUD (16 Ga, 45 ksi MIN)	1/4" DIA. ITW TEKS SELF-DRILLING SCREW	FULL**	1/2"

**FULLY PENETRATES METAL WITH 3 THREADS BEYOND

GENERAL ANCHOR NOTES:

1. INSTALL ANCHORS AS INDICATED IN DETAILS ON SHEETS 2 THRU 12.
2. INSTALL SHIMS AT EACH ANCHOR LOCATION WHERE A GAP OF 1/16" OR GREATER EXISTS BETWEEN PRODUCT FRAME AND SUBSTRATE.
3. 1/4" MAX. SHIMS SHALL BE LOAD-BEARING (PLASTIC OR METALLIC) AND CAPABLE OF TRANSFERRING LOADS TO SUBSTRATE.
4. SPECIFIED ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL FINISH OR STUCCO, BY OTHERS. FOR ATTACHMENT TO METAL SUBSTRATES, ENSURE FULL THREAD ENGAGEMENT THROUGH METAL WALL WITH MIN. 3 THREADS BEYOND.
5. IN CMU (AT JAMBS ONLY) ENSURE 3" MIN. ON-CENTER SPACING BETWEEN ANY TWO INSTALLATION ANCHORS IN JAMB ANCHOR CLUSTERS (SEE VERTICAL SECTION DETAILS ON SHEETS 2, 3, 4, & 5), AND 6" MIN. ON-CENTER ELSEWHERE AT CMU JAMBS. FOR ALL OTHER ANCHOR/SUBSTRATE TYPES (SEE TABLE 1) ENSURE 1 1/2" MIN. ON-CENTER SPACING BETWEEN ANY TWO INSTALLATION ANCHORS.
6. ANCHORS ARE FLATHEAD AT ALL PLATE/STRIKE LOCATIONS AND ROUND/PAN/HEX-WASHER HEAD ELSEWHERE.
7. CONCRETE ANCHORS THAT PENETRATE THE THRESHOLD ONLY ARE 3/16" DIA. ELCO ULTRACONS. ANCHORS THAT PENETRATE DOOR HARDWARE OR STRIKE PLATES ARE 1/4" DIA. ELCO ULTRACONS.

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FL PE# 62354

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PH/FAX: (561) 225-1982

STATE OF
APR 25 2023

DWG NO. 1022586

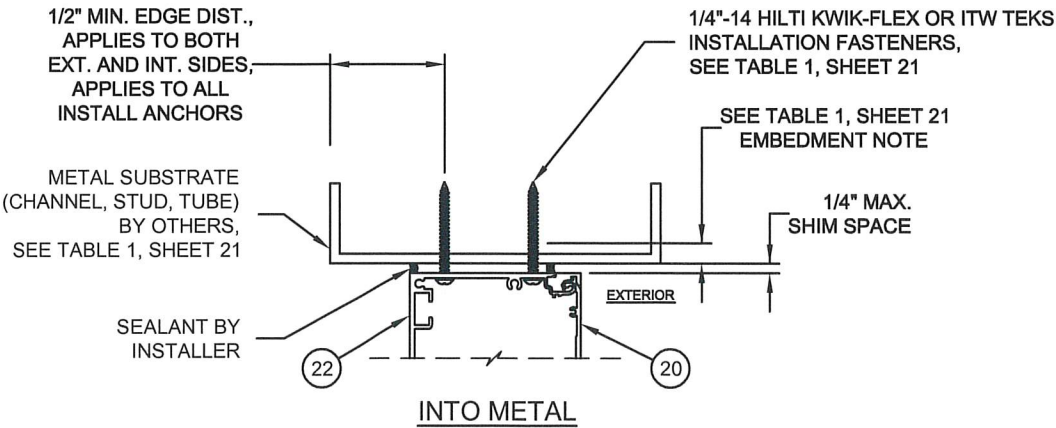
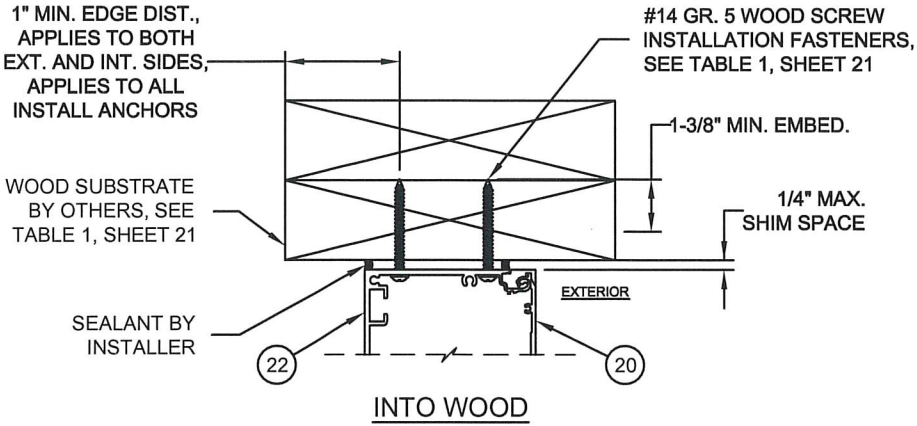
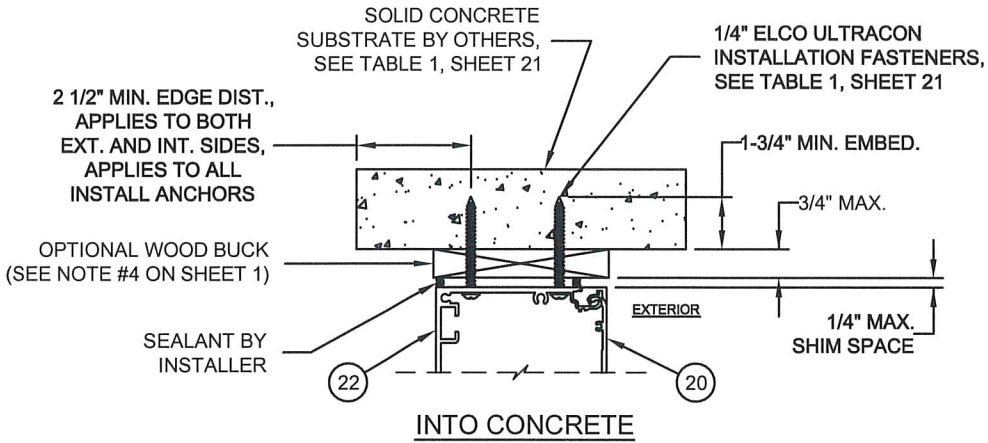
DRAWN BY JTG DATE 05/24/2022

SHEET DESCRIPTION SHEET NO. 21 OF 26

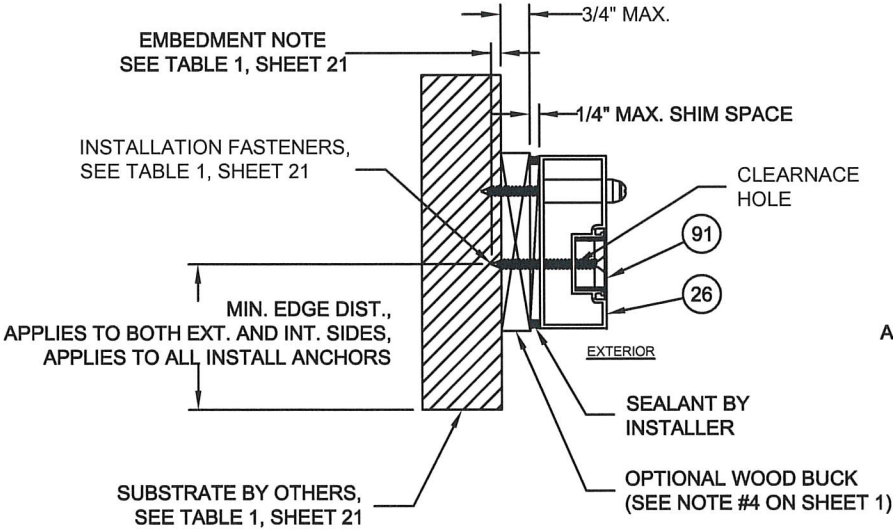
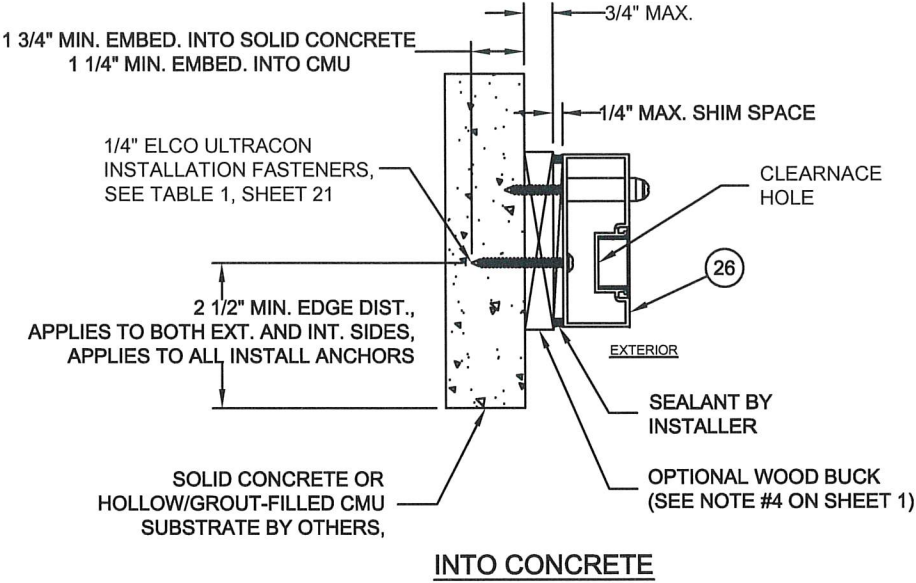
ASSA ABLOY

Revisions			
Rev	Description	Date	Approved
2	Added EX-SL Option Details	05/24/22	CBG

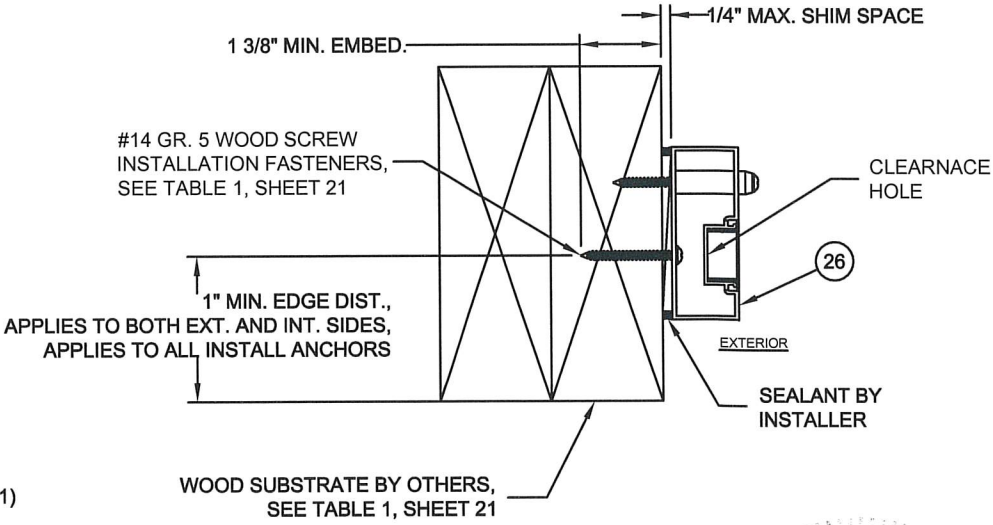
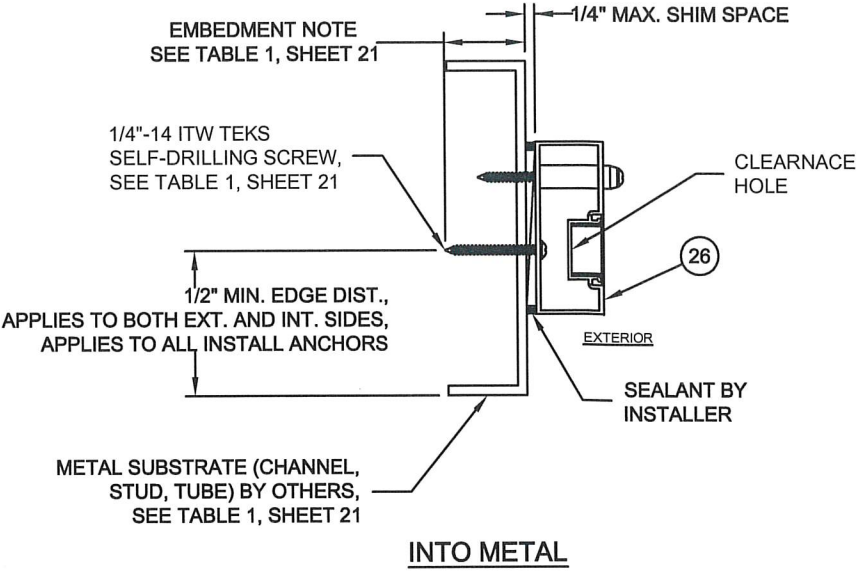
TYPICAL HEADER ANCHOR DETAILS



TYPICAL JAMB ANCHOR DETAILS



TYP. JAMB LOCK STRIKE INSTALLATION



INTO WOOD

SCOTT WOLTERS
FL PE# 62354

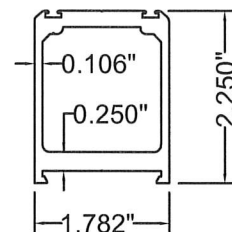
WOLTERS ENGINEERING
(COA# 27194)
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PH/FAX:(561) 225-1982

STATE OF
APR 25 2023

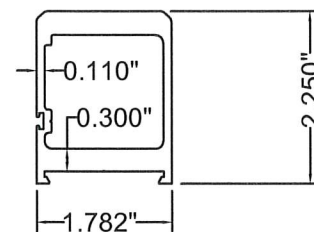
DWG NO.	1022586
DRAWN BY	JTG
DATE	05/24/2022
SHEET DESCRIPTION	SHEET NO. 22 OF 26

Revisions			
Rev	Description	Date	Approved
2	Added EX-SL Option Details	05/24/22	CBG

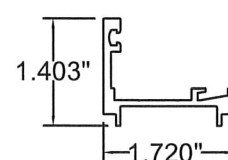
▲ US Patent 11,448,003 B2



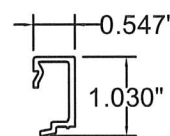
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6063-T5



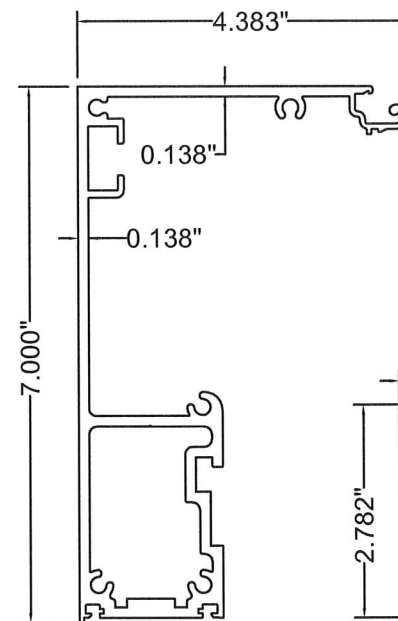
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6063-T5



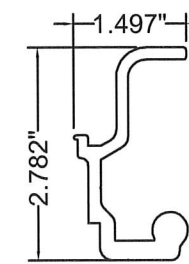
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6063-T5



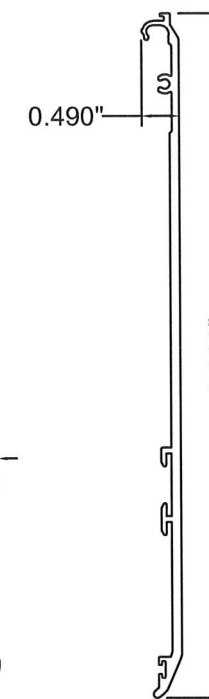
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6063-T5



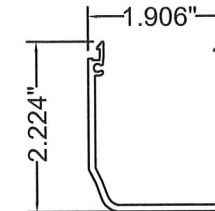
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6063-T6



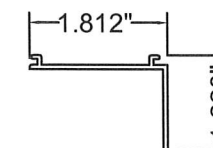
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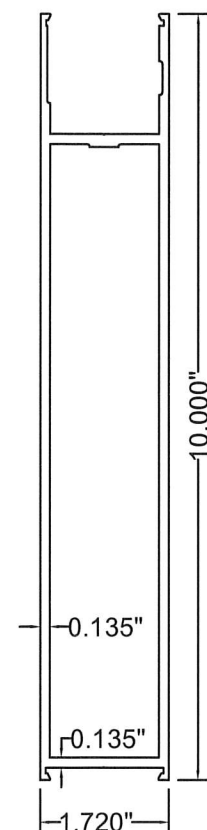
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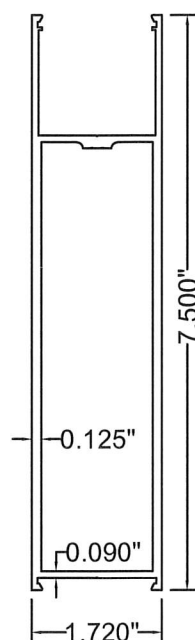
19 Sensor Cap
6063-T6



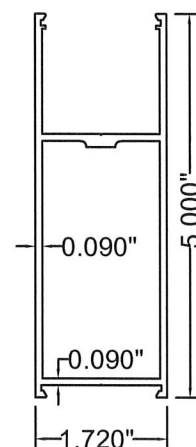
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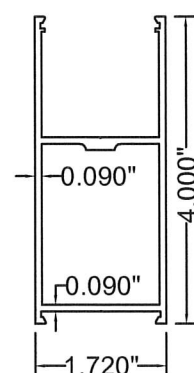
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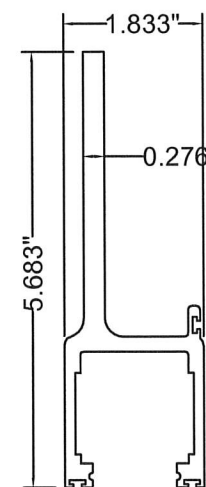
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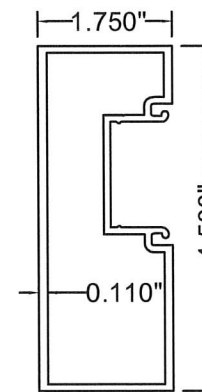
10 H5
6063-T5



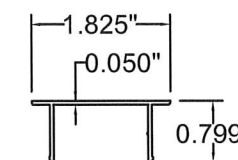
9 H4
6063-T5



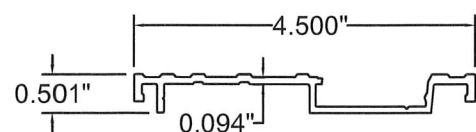
1 Carrier
6063-T6



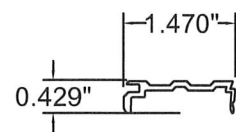
26 Jamb
6063-T6



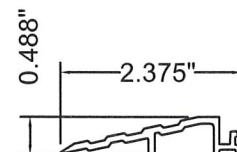
27 Jamb Snap
6063-T6



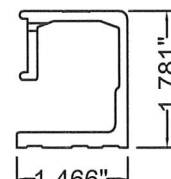
7 Threshold
6063-T6



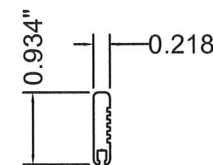
6 Filler
6063-T5



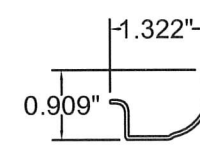
5 Leadup
6063-T5



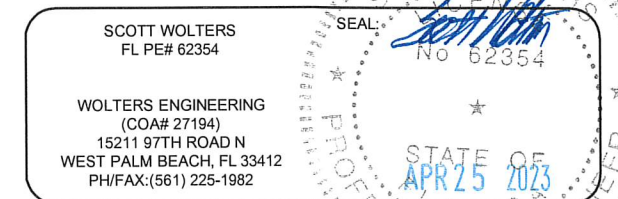
4 G-Channel
6063-T5



3 Sweep Housing
6063-T5

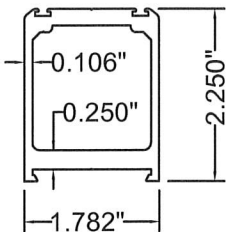


2 Sweep Clip
6063-T5

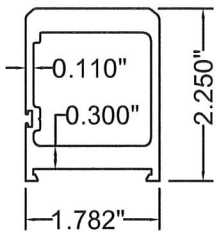


DWG NO.	1022586
DRAWN BY	JTG
SHEET DESCRIPTION	DATE: 05/24/2022
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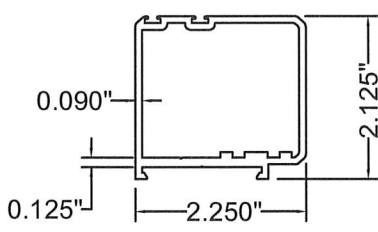
Revisions			
Rev	Description	Date	Approved
2	Added EX-SL Option Details	05/24/22	CBG



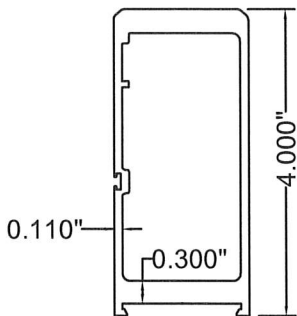
15 V1N
6063-T5



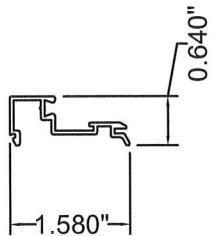
14 V2N
6063-T5



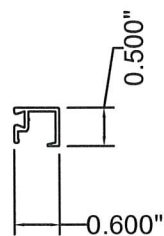
131 NAPS V1SP
6063-T5



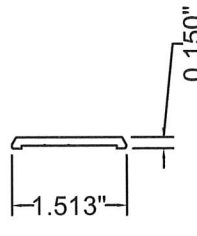
163 NAPS HD V2M
6063-T5



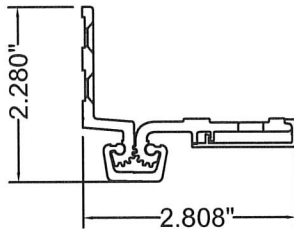
142 1/4" Gutter
6063-T5



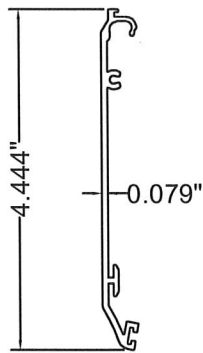
141 1/4" Snap
6063-T5



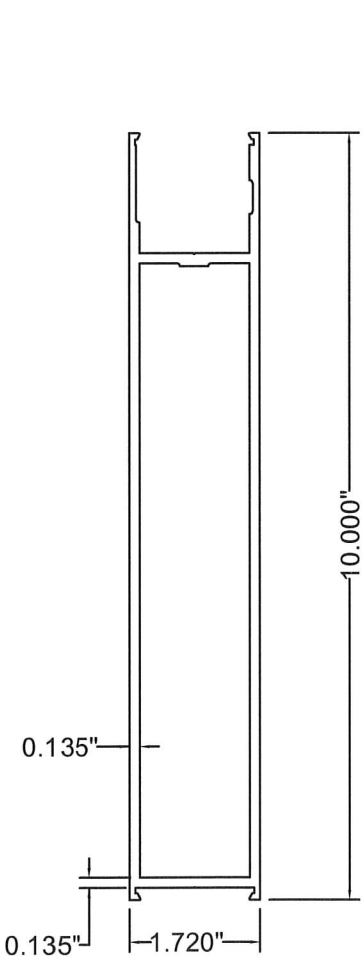
133 Double-dovetail
6063-T5



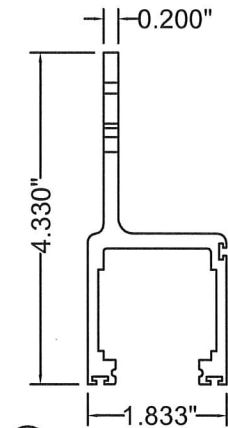
155 HS-SF Half-Surface Hinge
6063-T6



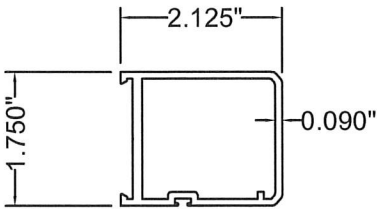
164 SL500 EX-SL Cover
6063-T5



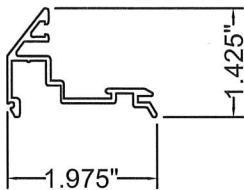
132 NAPS H10
6063-T5



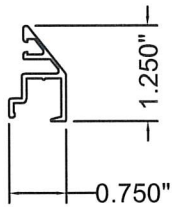
179 SL500 EX-SL Carrier
6063-T5



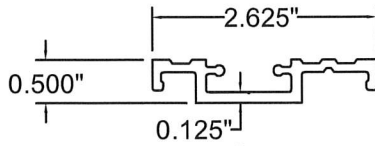
129 NAPS V2N
6063-T5



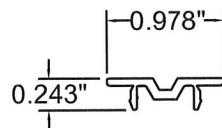
139 1/4" Sloped Gutter
6063-T5



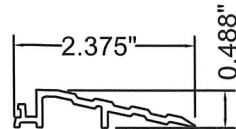
140 1/4" Sloped Snap
6063-T5



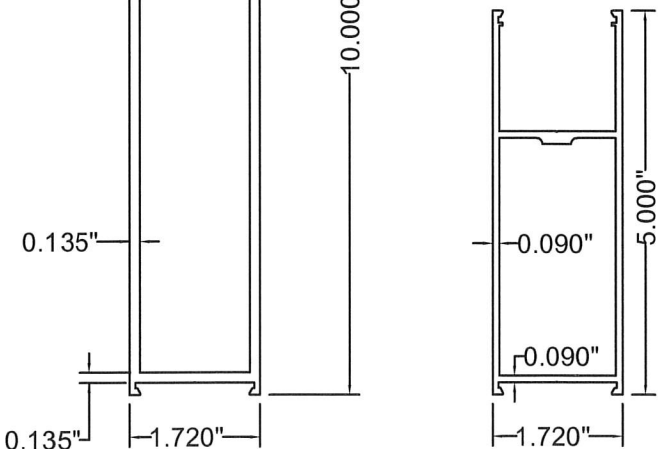
170 Threshold
6063-T6



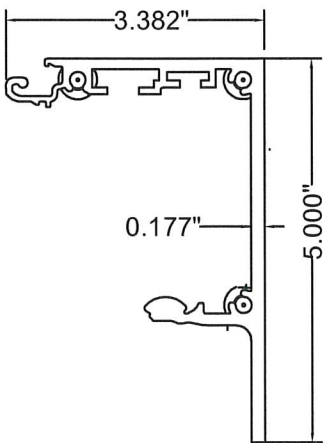
171 Filler
6063-T5



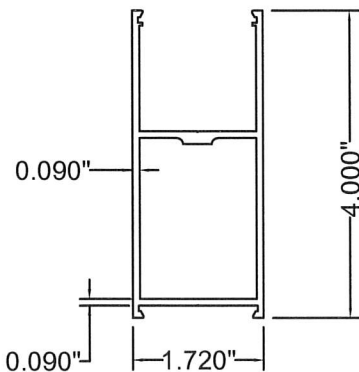
5 Leadup
6063-T5



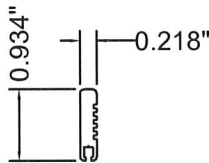
168 H5
6063-T5



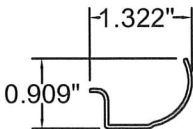
169 SL500 EX-SL Header
6063-T6



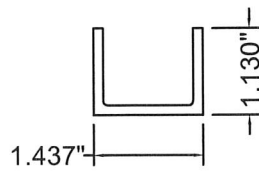
130 NAPS H4
6063-T5



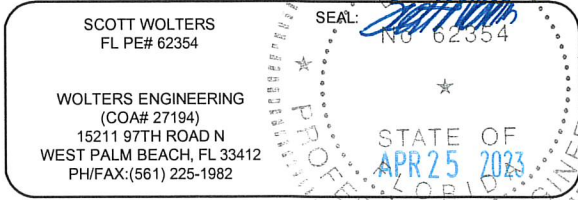
151 Concealed
Sweep Housing
6063-T5



146 Sweep Retention
Spring Clip
6063-T5



172 U-CHANNEL
6063-T5



DWG NO.	1022586
DRAWN BY	JTG
DATE	05/24/2022
SHEET DESCRIPTION	
SHEET NO.	24 OF 26



ASSA ABLOY ENTRANCE SYSTEMS
1900 AIRPORT ROAD
MONROE, NC 28110
PHONE: 1-866-237-2687

ASSA ABLOY
SL500 RESILIENCE R104 SLIDING DOOR SYSTEM
BI-PARTING FIXED SIDELITE
WITH EX OPTION

Revisions

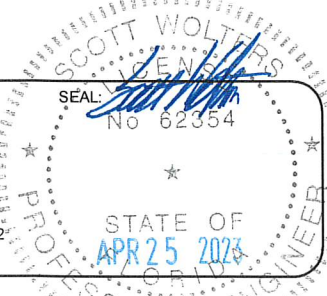
Rev	Description	Date	Approved
2	Added EX-SL Option Details	05/24/22	CBG

POS.	DESCRIPTION	PART NO.
1	Carrier	1015669
2	Sweep Clip	1013780
3	Sweep Housing	US01-0685
4	Resilience G-Channel	1018598
5	Leadup	1013364
6	Filler	1018095
7	Threshold	1013363
9	H4 Bottom Rail	1012942
10	H5 A/L Top Rail	1012944
12	H7.5 S/L Top Rail	1016075
13	H10 Bottom Rail	1012946
14	V2N HD Rail	1018841
15	V1N HD Rail	1018840
16	V2M HD Rail	1018843
17	V1M HD Rail	1018842
18	Sidelite Cap Extrusion	1008138
19	XG Resilience Sensor Cap	1016738
20	Beam Cover	1016073
21	XG Resilience Track	1015670
22	SL500 Beam	1010590
24	XG Resilience 9/16" Snap	1015701
25	Gutter	1015700
26	Jamb Tube	US01-0931
27	Jamb Snap	US01-0933
30	Fixed Seal (9/16" L.D. glass)	1703421
32	Fixed Seal (1/4" glass)	1703424
33	Wedge Seal (9/16" L.D. glass)	1703422
35	Wedge Seal (1/4" glass)	1703425
36	Glass Spacer Block	1016294
37	4" Anti-Twist Assembly Clip	1013803-2
38	5" Anti-Twist Assembly Clip	1013803-3
40	7.5" Rail Clip	1016607
41	10" Anti-Twist Assembly Clip	1013897-1
42	Rod, Threaded, 3/8"	50-09-100
43	Nut, 3/8-16 Whiz flange zinc	50-09-132
44	Square Threaded Rod Nut	1016327
45	Anti-Twist Bracket	1016628
46	Anti-Twist, R96	1019248
47	XG Gutter Corner Bracket, Interlock Mount	1019594
48	Heyco Plug #4055, Black	1704108
49	Weather Strip, Tall Fuzz	US20-0905-01
50	Header Smoke Seal - 20' Length	US20-1658-02

POS.	DESCRIPTION	PART NO.
51	Sweep	US20-1627-02
52	Top Pivot Assembly	1012549
53	Locking Panel Plug, for 7/16" I.D. hole	1703680
54	Narrow Stile Eco Door Kit	1009225
55	XG PSA Arm Kit, HD	1017036
56	XG Resilience FSL Bottom Guide Assy	1019902
57	SL500 Resilience Ball Catch Kit	1017039
58	XG SL500R Bottom Roller Assy	1017854
59	XG Resilience HD Lock Pin Guide Kit	1019780
60	2 PT Lock	1703500
62	Upper Arm 4016 lock AR 22-075	1703503
63	Upper Arm Pin 4016 lock	1703504
64	XG Lock Body Mounting Block	1019595
65	#10-32 x 1/2" Ultra Low Profile Socket Head Screw	1704073
66	Screw, PFU, 10-32x1/4", Znc nyloc	50-09-203
67	Lock Pin Assembly, Top	1016991
68	Lock Pin Assembly, Bottom	1016992
69	XG Faceplate Spacer, Resilience	1019518
70	Faceplate, Flush, CL/BK Fuzz	50-06-131/FB
72	#8-32 x 3/8" FHCS	1703507
74	Cylinder, Keyed-alike, CL	50-06-198KA
75	Indicator, Exit, 1-Pt, CL	50-06-161
79	XG Carrier Lock Strike Assy	1016637
80	Kit, Ball Catch, Carrier, CL	US05-1609-01
81	XG Blade Transmission Bracket Assy	1016644
82	XG Tandem Carriage Assembly	1016641
83	Carrier End Cap	1008415
84	Carrier End Cap Assembly	1008774
85	XG Lock Strike Plate	1016610
86	#14 x 3in FH sheetmetal screw	1703426
87	XG Resilience FSL Base Bracket	1019750
88	M8x14 BHCS	1703595
89	XG Resilience FSL Jamb Pin	1019749
90	#14 x 4in round head screw	1703494
91	Resilience Jamb Lock Strike	1017900
92	Resilience Sheer Block	1016612
93	M8x40mm BHCS Black	1703691
94	M8 x 18 SHCS	1703495
95	M6 Rivnut	US09-1560-01
96	M8 Steel Rivnut	1703429
97	Double-sided Tape (Track)	1010787
98	Carrier Positive Stop Bracket, Single Slide	1017002
99	Carrier Positive Stop Bracket, Bi-Part	1016615
100	Resilience Beam End Cap, Left	1016614

POS.	DESCRIPTION	PART NO.
101	Resilience Beam End Cap, Right	1016613
102	M6 x 30 Flathead, Posidrive Thread Forming Screw	1701704
103	Screw, HEX, m6x20, znc, CL8.8	93-09-723187
104	Beam Interlock Hook	1016622
105	M6x12, FHCS	50-09-153
106	Beam Support Weldment	1016956
107	Support Plate D	1016955
108	5/16-18 Low Profile Wafer Screws	1703593
109	Cover Latch Assembly	1008094
110	XG Muntin 'L' Bracket, Resilience	1019660
111	XG M6x60mm HHCS	1703666
112	XG M6x115mm HHCS, CL	1703710
113	M6 HEX NUT	04-09-726016
114	XG M6x25mm FHCS, Thread Former, Phillips Drive	1703679
116	Resilience Crash Bar Kit	1017922
117	M6x16mm Trilobe BHCS	1703493
118	#10x1" PPH Tek Screw	70-09-216
119	Screw, HWH, 1/4-14x1"TEK	US09-1294-01
120	M5x8mm BHCS	1703508
121	M6x12mm SHCS BLK Zinc	1703632
122	M6x14mm BHCS	1703471-02
123	#14 x 2.5in BH sheetmetal screw	1703431
124	#10 x 2in PH sheetmetal screw	1703427
125	1/4"-14 x 2" HWH #3 Pt steel self drilling screw	1703633
126	1/4" x 3-1/4" PFH Elco Ultracon Conc. Anchor	1703634
127	3/16" x 1-3/4" HWH Elco Ultracon Conc. Anchor	1703635
128	1/4" x 1-3/4" HWH Elco Ultracon Conc. Anchor	1703636

SCOTT WOLTERS
FL PE# 62354

SEAL: 
No 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX:(561) 225-1982

DWG NO. 1022586

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DATE 05/24/2022

SHEET DESCRIPTION

SHEET NO.
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ASSA ABLOY

ASSA ABLOY

ASSA ABLOY ENTRANCE SYSTEMS
1900 AIRPORT ROAD
MONROE, NC 28110
PHONE: 1-866-237-2687

ASSA ABLOY

SL500 RESILIENCE R104 SLIDING DOOR SYSTEM
BI-PARTING FIXED SIDELITE
WITH EX OPTION

Revisions

Rev	Description	Date	Approved
2	Added EX-SL Option Details	05/24/22	CBG

POS.	DESCRIPTION	PART NO.
129	NAPS V2N	1012938
130	NAPS H4	1012942
131	NAPS V1SP	1013884
132	NAPS H10	1012946
133	Double-dovetail	US01-0462-XX
134	4" Anti-twist Assembly Clip	1013803-2
135	10" Anti-twist Assembly Clip	1013897-1
136	Shim, Flange Nut	1014039
137	Nut, 3/8"-16 Whiz Flange Zinc	50-09-132
138	3/8"-16 Threaded Rod	50-09-100
139	1/4" Sloped Gutter	US01-0423-XX
140	1/4" Sloped Snap	US01-0424-XX
141	1/4" Snap	US01-0419-XX
142	1/4" Gutter	US01-0418-XX
143	3/16" Pile Weatherstripping	50-20-6402
144	Glazing Bead	US20-0213-XX
145	Sloped Glass Seal	50-20-225
146	Sweep Retention Spring Clip	1013780
147	Cap, Quick Service Door (LH)	1022369
148	Cap, Quick Service Door (RH)	1022370
149	Glazing Tape	1702779
150	Brush, Concealed Door Sweep	50-20-215
151	Concealed Sweep Housing	US01-0685-XX
152	Glass Block	US08-1653-01
153	Screw, HWH, 14-14 X 1 TEK	US09-1294-01
154	Pop Rivet, 3/16" X 1/2" LG (Clear)	US09-0350-02
155	HS-SF Half-Surface Hinge	1704522
156	Assy, 47-3/8" Lock Rod	50-06-110/OS
157	Kit, Lock Rod Guide	1702214
158	Flush Bolt	50-04-137
159	Door Holder, Mech	1704545
160	Screw, #6 X 5/8" Phillips, Undercut Flathead	US09-1665-01
161	EX Pull Handle	1023147
162	Surface Applied EX End Plate	1023023
163	NAPS HD V2M	1012939
164	SL500 EX-SL Cover	1013791
165	Kit, Spring Clip Assembly, RH	1023375-R
166	Kit, Rotary Dampener SL500 EX-SL	1023194
167	M6x16mm Trilobe BHCS	1703493
168	NAPS H5 Rail	1012944
169	SL500 EX-SL Header	1013555
170	Surface Applied Threshold Ext.	US01-0581
171	Threshold Filler	US01-0517
172	U-Channel	1023377
173	Backset Hook Lock	50-06-100
174	Snap-In-Cap, NAPS V1N Rail	1023142
175	Lock Cylinder, Thumbturn	50-06-106
176	Glazing Tape	1702779
177	#10-32 Rivnet	US09-0852-01
178	Non-Panic Guide Block	50-15-167

POS.	DESCRIPTION	PART NO.
179	SL500 EX-SL Carrier	1014256
180	Wheel Bracket Assy.	1014215

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
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SEAL

APR 25 2023

STATE OF FLORIDA

PROFESSIONAL ENGINEER

DWG NO. 1022586

DRAWN BY JTG

SHEET DESCRIPTION

DATE 05/24/2022

SHEET NO. 26 OF 26

ASSA ABLOY