



GENERAL NOTES, PORTILLO SERIES OUTSWING AND INSWING ENTRANCE DOORS, LARGE MISSILE IMPACT:

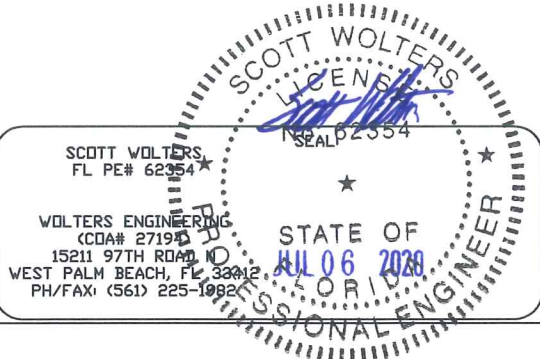
1. THIS APPROVAL APPLIES TO SINGLE (X) AND DOUBLE (XX) LEAF IMPACT RESISTANT OUTSWING AND INSWING PORTILLO SERIES DOORS.
2. ALLOWABLE DESIGN PRESSURE: +/-65 PSF.
3. ALL RAISED PANELS AND/OR GLAZING AS SHOWN IN DETAILS A, RP1, AND RP2, AND ALL HARDWARE TYPES IN THE MATERIALS LIST ON SHEET 3 MAY BE USED IN ANY DOOR CONFIGURATION SHOWN ON SHEET 2.
4. THESE DOORS HAVE BEEN DESIGNED AND TESTED PER TAS 201, 202, AND 203 PROTOCOLS IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT EDITION OF THE FLORIDA BUILDING CODE (FBC), INCLUDING THE HIGH VELOCITY HURRICANE ZONE PROVISIONS.
5. THIS PRODUCT AS SHOWN HEREIN IS LARGE AND SMALL MISSILE IMPACT RESISTANT. SHUTTERS ARE NOT REQUIRED.
6. WOOD OR MASONRY OPENINGS, BUCKS, AND BUCK FASTENERS, BY OTHERS, SHALL BE PROPERLY DESIGNED AND INSTALLED TO TRANSFER LOADS TO THE STRUCTURE.
7. ANCHOR TYPE, SIZE, SPACING, AND EMBEDMENT SHALL BE AS INDICATED IN THIS APPROVAL. ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL DRESSING OR STUCCO.
8. ALL FASTENERS PENETRATING INTO PRESSURE TREATED WOOD SHALL BE CAPABLE OF PREVENTING CORROSION DUE TO REACTION WITH PRESSURE TREATMENT CHEMICALS.
9. DISSIMILAR MATERIALS THAT COME INTO CONTACT SHALL BE PROTECTED TO PREVENT REACTIONS IN ACCORDANCE WITH FBC CHAPTERS 20 AND 23.
10. A WIND LOAD DURATION FACTOR $C_d = 1.6$ WAS USED FOR THE ANALYSIS OF WOOD SCREWS ONLY. THE 4/3 ALLOWABLE INCREASE IN STRESS FOR WIND HAS NOT BEEN USED IN THE ANALYSIS FOR THIS SYSTEM.
11. ALL WOOD MEMBERS OF DOORS THAT MAY POSSIBLY COME INTO CONTACT WITH MASONRY OR CONCRETE SUBSTRATES, ARE SUBJECT TO MOISTURE &/OR ARE SUBJECT TO THE OUTSIDE ENVIRONMENT SHALL BE OF AN APPROVED DURABLE SPECIES OR BE TREATED IN AN APPROVED METHOD WITH AN APPROVED PRESERVATIVE PER FBC SECTION 2326.
12. MEMBERS NOTCHED AS NEEDED TO FIT HARDWARE
13. ALL HARDWARE SEALED WITH CLEAR GE SILICONE I WINDOW AND DOOR CAULK

REV.	DATE	DESCRIPTION	BY	F.N.
1	10/08/2012	2ND SUBMITTAL		
2	12/17/2012	3RD SUBMITTAL		
3	8/27/2015	CODE UPDATE		
4	7/6/2020	CODE UPDATE		

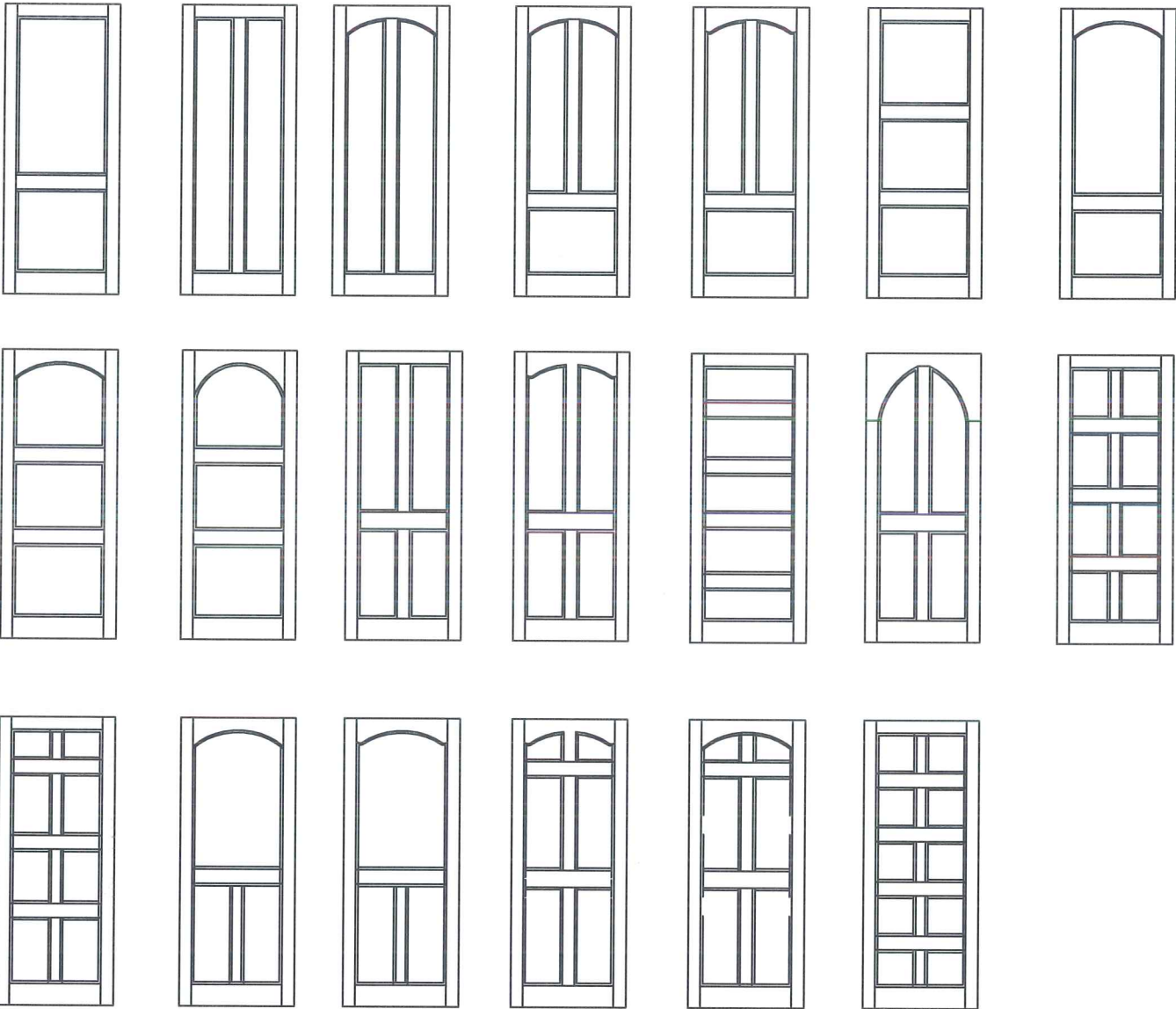
PROJECT NAME:	PORTILLO SERIES SWING DOOR
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DRAWING #	002
SCALE	NTS
SHEET	1 of 17



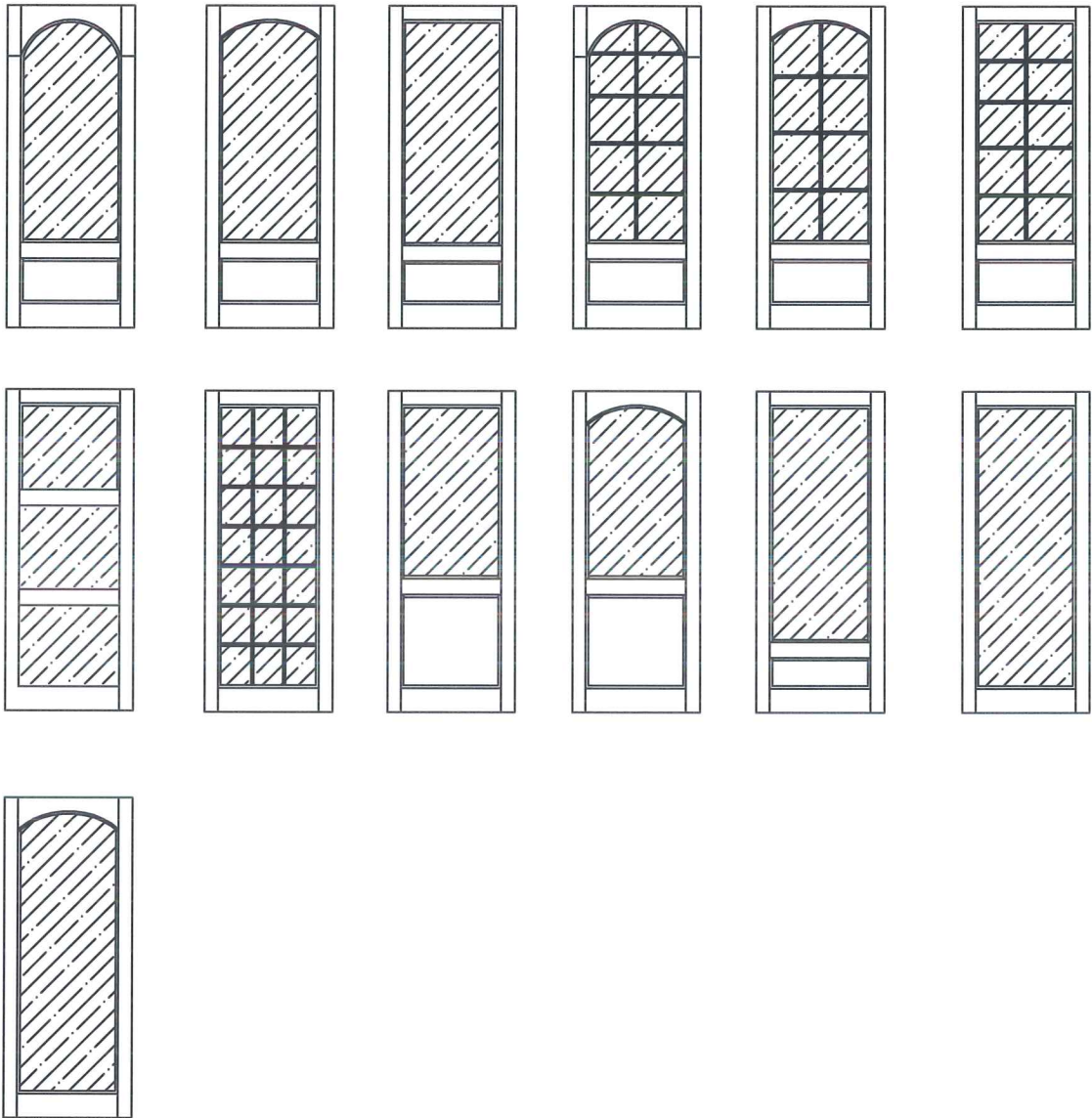
SOLID WOOD RAISED PANEL DOOR CONFIGURATION OPTIONS



ALLOWABLE DOOR
PANEL TOP SHAPES:



GLAZED AND GLAZED/ PANEL COMBINATION CONFGS
(APPLIED MUNTINS USED FOR DIVIDED GLASS LITES)



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0	07/09/2012	ORIGINAL RELEASE	F.N.
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Lag Design of Florida 3850 Byron Drive, #1 Riviera Beach, FL 33404 PHONE: 561.841.8590 FAX: 561.841.9440			
DRAWING # 002			
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SHEET 2 of 17			

BILL OF MATERIALS

WOOD DOOR COMPONENTS

CODE	PART NO.	DESCRIPTION	MATERIAL/CONSTRUCTION	MANUFACTURER
1	FIDS-1	HEAD AND JAMB RABBETED AND KERFED	SOLID MAHOGANY	FLORIDA IMPACT DOOR SYSTEMS
2	FIDS-2	STILES AND TOP RAIL *	MAHOGANY*	FLORIDA IMPACT DOOR SYSTEMS
3	FIDS-3	BOTTOM RAIL *	MAHOGANY*	FLORIDA IMPACT DOOR SYSTEMS
4	FIDS-4	GLASS STOP	SOLID MAHOGANY	FLORIDA IMPACT DOOR SYSTEMS
5	FIDS-5A	THRESHOLD SILL CAP	SOLID MAHOGANY	FLORIDA IMPACT DOOR SYSTEMS
6	NOT USED	NOT USED	NOT USED	NOT USED
7	FIDS-7	ASTRAGAL *	MAHOGANY*	FLORIDA IMPACT DOOR SYSTEMS
8	FIDS-8	ASTRAGAL COVER	SOLID MAHOGANY	FLORIDA IMPACT DOOR SYSTEMS
9	FIDS-9	TOP RAIL TENDON	SOLID MAHOGANY	FLORIDA IMPACT DOOR SYSTEMS
10	FIDS-10	BOTTOM RAIL TENDON	SOLID MAHOGANY	FLORIDA IMPACT DOOR SYSTEMS
11	FIDS-11	LOCK RAIL *	MAHOGANY*	FLORIDA IMPACT DOOR SYSTEMS
12	FIDS-12	RAISED PANEL (RP1) STOP	SOLID MAHOGANY	FLORIDA IMPACT DOOR SYSTEMS
13	FIDS-13	INTERMEDIATE RAIL FOR RP2 *	MAHOGANY*	FLORIDA IMPACT DOOR SYSTEMS
14	FIDS-14	STILES TOP RAIL FOR RP2 *	MAHOGANY*	FLORIDA IMPACT DOOR SYSTEMS
15	FIDS-15	BOTTOM RAIL FOR RP2 *	MAHOGANY*	FLORIDA IMPACT DOOR SYSTEMS
16	FIDS-16	RP2 - RAISED PANEL *	MAHOGANY*	FLORIDA IMPACT DOOR SYSTEMS
17	FIDS-17	RP1 - RAISED PANEL *	MAHOGANY*	FLORIDA IMPACT DOOR SYSTEMS
18	FIDS-18	INTERMEDIATE TENDON	SOLID MAHOGANY	FLORIDA IMPACT DOOR SYSTEMS
19	FIDS-19	WOOD SADDLE FOR INSWING THRESHOLD W/ WEEPS	SOLID MAHOGANY	FLORIDA IMPACT DOOR SYSTEMS
20	FIDS-20	WOOD SADDLE FOR INSWING THRESHOLD W/O WEEPS	SOLID MAHOGANY	FLORIDA IMPACT DOOR SYSTEMS
21	FIDS-21	DOOR BOTTOM FLAP	SOLID MAHOGANY	FLORIDA IMPACT DOOR SYSTEMS

DOOR HARDWARE

0A	FIDS-0A	STRIKE PLATE	ALUMINUM-6063-T6	FLORIDA IMPACT DOOR SYSTEMS
2A	FIDS-2A	REINFORCING PLATE	ALUMINUM-6063-T6	FLORIDA IMPACT DOOR SYSTEMS
3A	12EFB26D	12" EXTENSION FLUSH BOLT	BRASS	DELTANA
4A	NOT USED	NOT USED	NOT USED	NOT USED
5A	DBS45B	HINGE	BRASS	DELTANA
6A	FIDS-6A	STORM BOLT	BRASS	FLORIDA IMPACT DOOR SYSTEM
7A	6-29385-11-0-8	WOLVERINE 3 POINT LOCKING SYSTEM	STAINLESS STEEL	GU
8A	6FBS32D	FLUSH BOLT	STAINLESS STEEL	DELTANA
9A	S200	SCHLAGE - DOUBLE KEY CYLINDER GRADE 2	STAINLESS STEEL	SCHLAGE
10A	F10GED	SCHLAGE - DOOR KNOB - NON-KEYED	STAINLESS STEEL	SCHLAGE
11A	8450	EMTEK - LOCK CYLINDER	BRASS	EMTEK
12A	5100	EMTEK - DOOR KNOB - NON-KEYED	BRASS	EMTEK
13A	8463	EMTEK - THUMB TURN	BRASS	EMTEK
14A	5100C	EMTEK - DOOR KNOB 90 DEGREE - NON-KEYED	COPPER	EMTEK

FASTENERS/MISC

1B	N/A	#12 X 2 1/2" SMS PFHD	STAINLESS STEEL	N/A
2B	N/A	#12 X 1 3/4" SMS SCREW PFHD	ZINC	N/A
3B	N/A	#12 X 3/4" SMS SCREW PFHD	ZINC	N/A
4B	N/A	#8 X 1 1/4" SMS SCREW PFHD	ZINC	N/A
5B	4866	HIGH DAM THRESHOLD	ALUMINUM-6063-T6	N/A
6B	N/A	#8 X 5/8" SMS SCREW PFHD	STAINLESS STEEL	N/A
7B	N/A	#12 X 1 1/4" SMS SCREW PFHD	ZINC	N/A
8B	QEBD-650C8	WEATHER STRIP - Q-LON 650	RUBBER-NEOPRENE	SCHLEGEL
9B	SIKAFLEX-15LM	SEALANT - SIKAFLEX-15LM	SIKAFLEX-15LM	SIKAFLEX
10B	N/A	#10 X 2" SMS SCREW PFHD	STAINLESS STEEL	N/A
11B	LTP	LOCK THROW PLATE	STAINLESS STEEL	N/A
12B	NOT USED	NOT USED	NOT USED	NOT USED
13B	N/A	#12 X 2 1/4" SMS SCREW PFHD	STAINLESS STEEL	N/A
14B	N/A	#6-20 X 1/2"	ZINC	N/A
15B	LTP-1	LOCK THROW PLATE 1	STAINLESS STEEL	N/A
16B	LTP-2	LOCK THROW PLATE 2	STAINLESS STEEL	N/A
17B	NOT USED	NOT USED	NOT USED	NOT USED
18B	N/A	#14 X 2 1/2" SMS SCREW PFHD	ZINC	N/A
19B	5000	HYDROSILL SERIES 5000	ALUMINUM-6063-T6	SCHLEGEL
19C	N/A	OPEN CELL FOAM BAFFLE FOR INSWING SILL	FOAM BAFFLE	SCHLEGEL
19D	N/A	WEATHERSTRIP FOR HYDROSILL	POLYETHYLENE CLAD URETHANE FOAM	SCHLEGEL
19E	NOT USED	NOT USED	NOT USED	NOT USED
20B	2005AV	ADA THRESHOLD/WEATHER STRIP ASSEMBLY	ALUMINUM-6063-T6/VINYL	PEMKO
21B	N/A	ALUMINUM CHANNEL	ALUMINUM-6063-T6	N/A
22B	N/A	#12 X 1 1/2" SMS SCREW PFHD	STAINLESS STEEL	N/A
23B	N/A	#12 X 3/4" SMS PFHD	ZINC	N/A

WOOD MAKE UP:

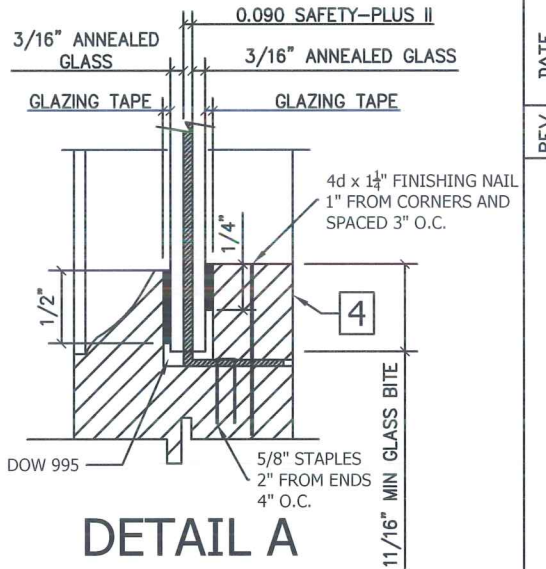
THE DOORS AND FRAMES TESTED WERE MADE FROM THREE TYPES OF MAHOGANY. ANY DURABLE SPECIES WITH A SPECIFIC GRAVITY OF 0.51 AND A MODULUS OF ELASTICITY OF 1.58×10^6 PSI MAY BE USED.

* THESE WOOD SHAPES ARE
CONSTRUCTED FROM SOLID WOOD
PIECES FACE AND EDGE-GLUED
TOGETHER USING A UREA-
FORMALDEHYDE RESIN THAT MEETS
THE REQUIREMENTS OF ASTM D4690.
SEE SHEETS 15-17 FOR THE MAKE-UP
OF THE FACE AND EDGE-GLUED SHAPES.

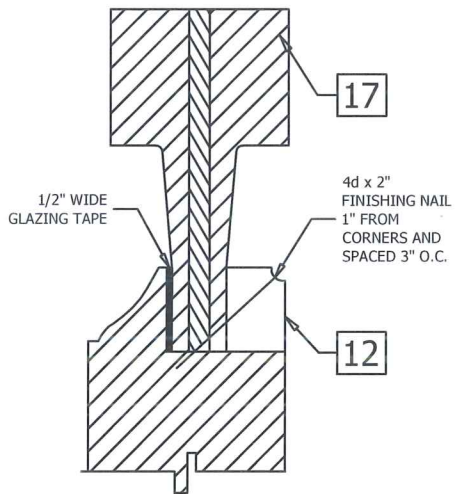
GLASS MAKE UP:

GL1: 7/16" LAMINATED GLASS
3/16" ANNEALED GLASS
*0.090 SAFETY-PLUS II
3/16" ANNEALED GLASS

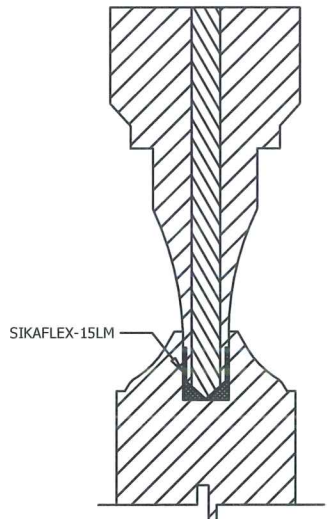
*POLYLAM, POLYURETHANE
LAMINATING POLYMER BY
POLYMER EXTRUSION
TECHNOLOGY, INC.
(dba GLASSLAM)



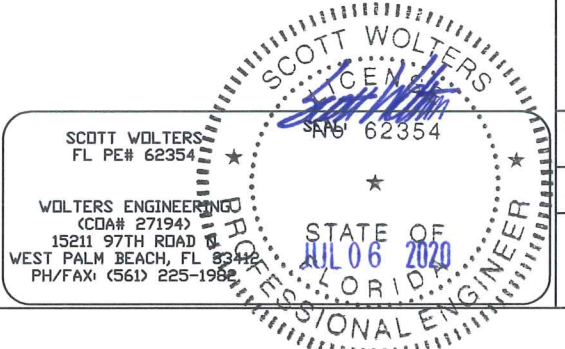
DETAIL A



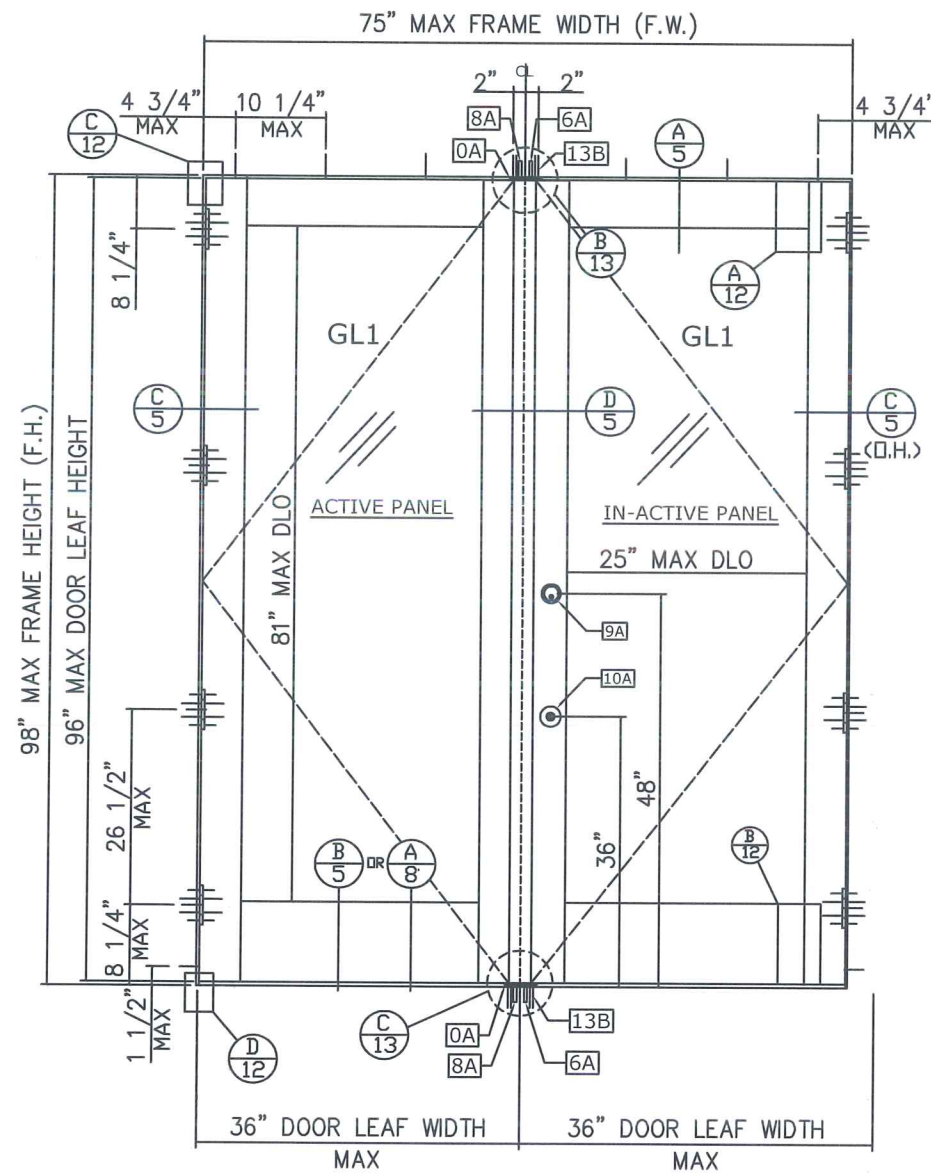
DETAIL RP1



DETAIL RP2

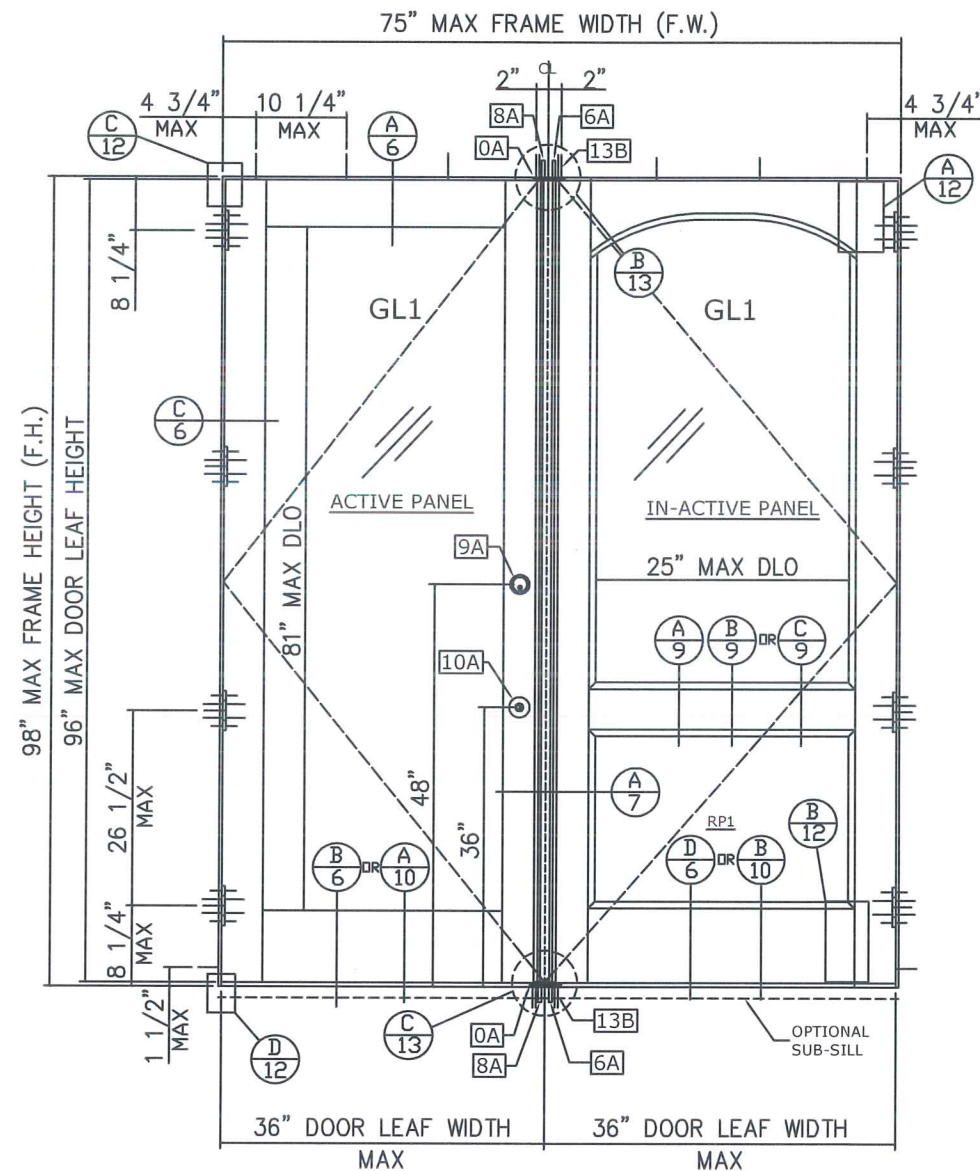


Lag Design of Florida 3850 Byron Drive, #1 Riviera Beach, FL 33404 PHONE: 561.841.8590 FAX: 561.841.9440 DRAWING # 001 SCALE: NTS SHEET 3 of 17	PROJECT NAME: PORTILLO SERIES SWING DOOR			
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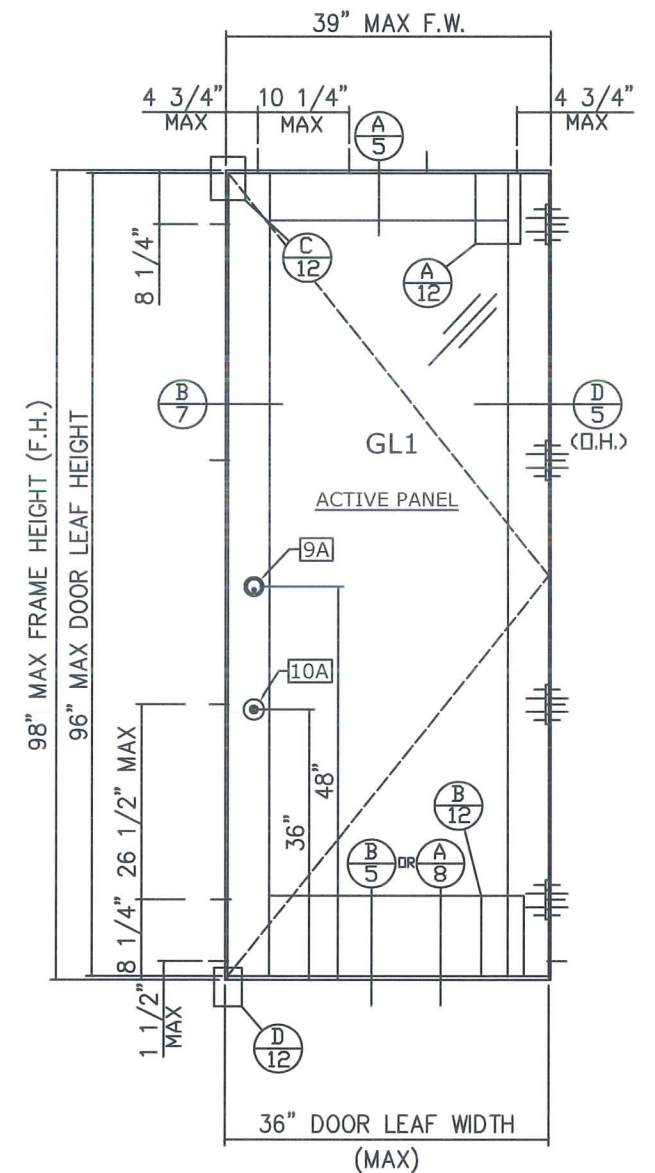


OUTSWING ELEVATION
(EXTERIOR VIEW)

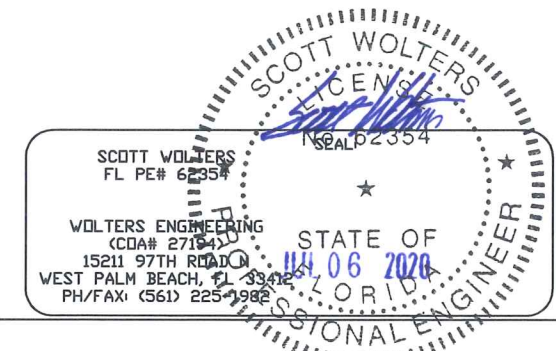
DESIGN PRESSURE
+/- 65 PSF



INSWING ELEVATION
(EXTERIOR VIEW)

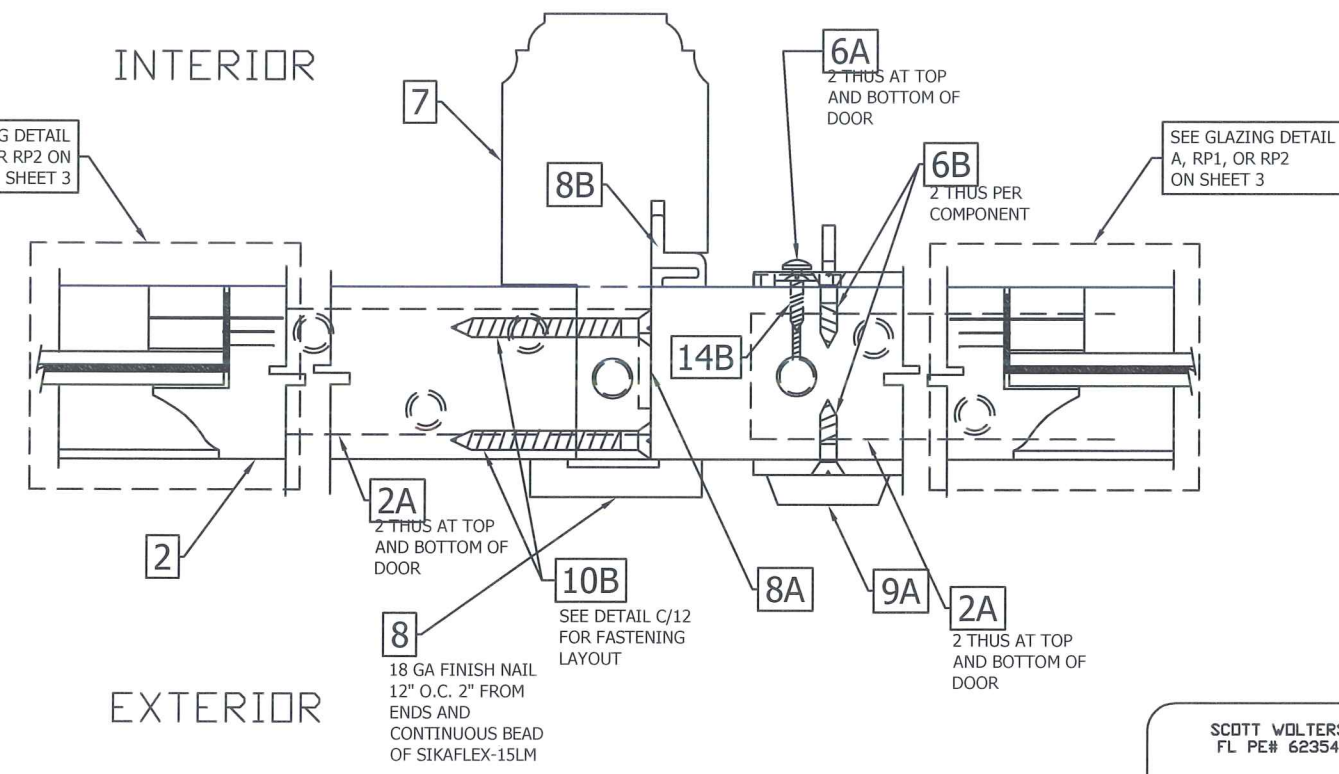
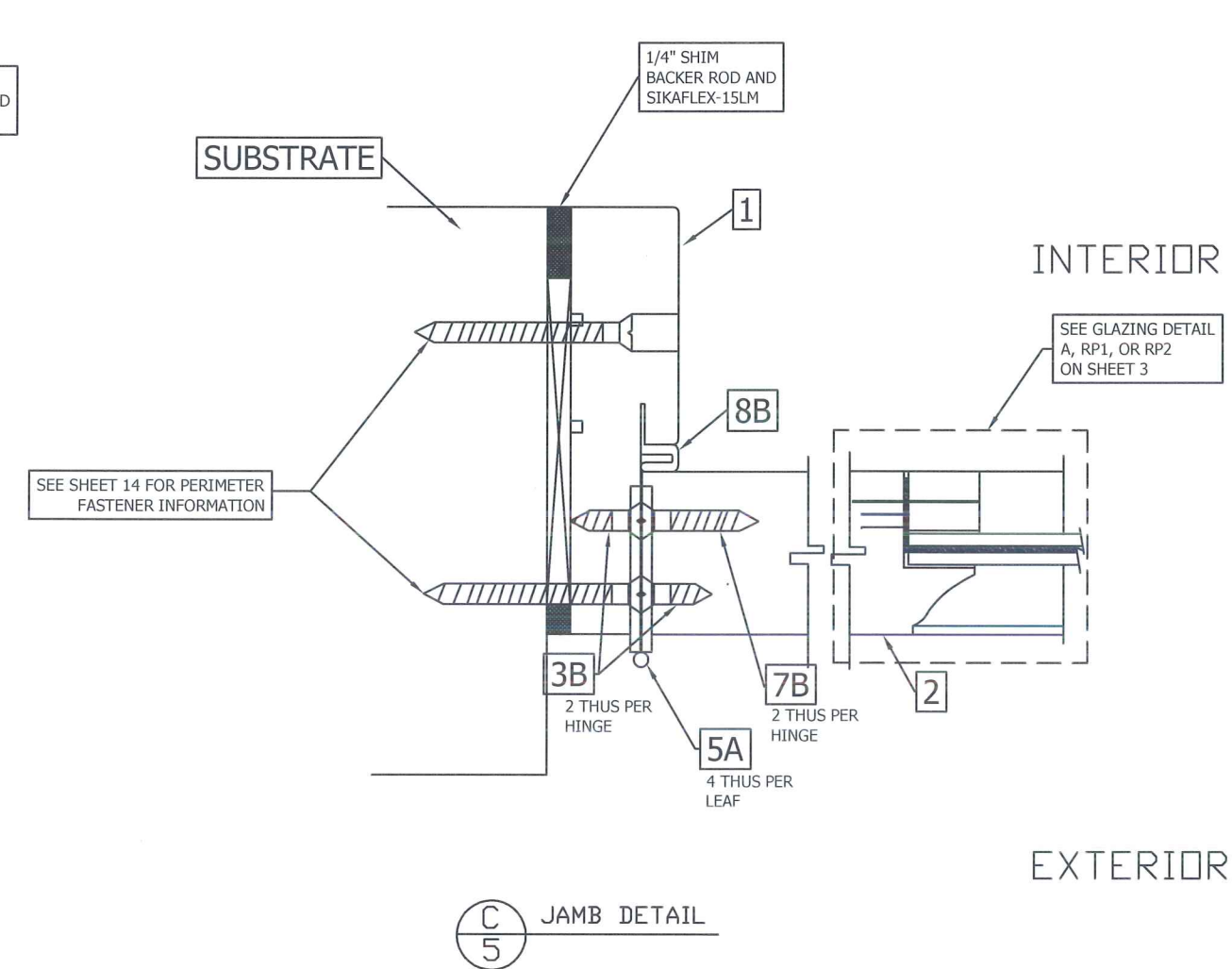
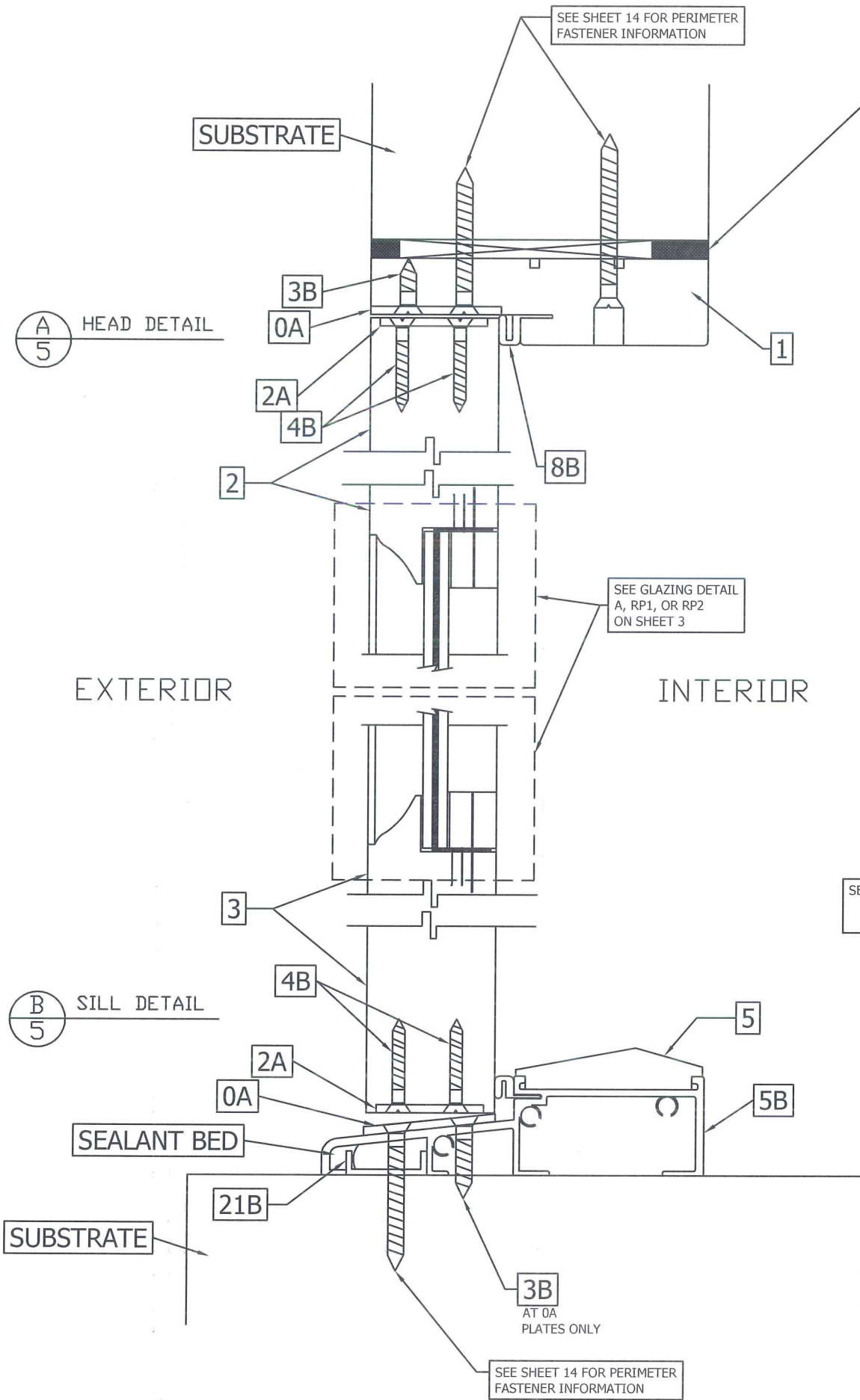


SINGLE DOOR
OUTSWING ELEVATION
(EXTERIOR VIEW)
(INSWING SIMILAR)



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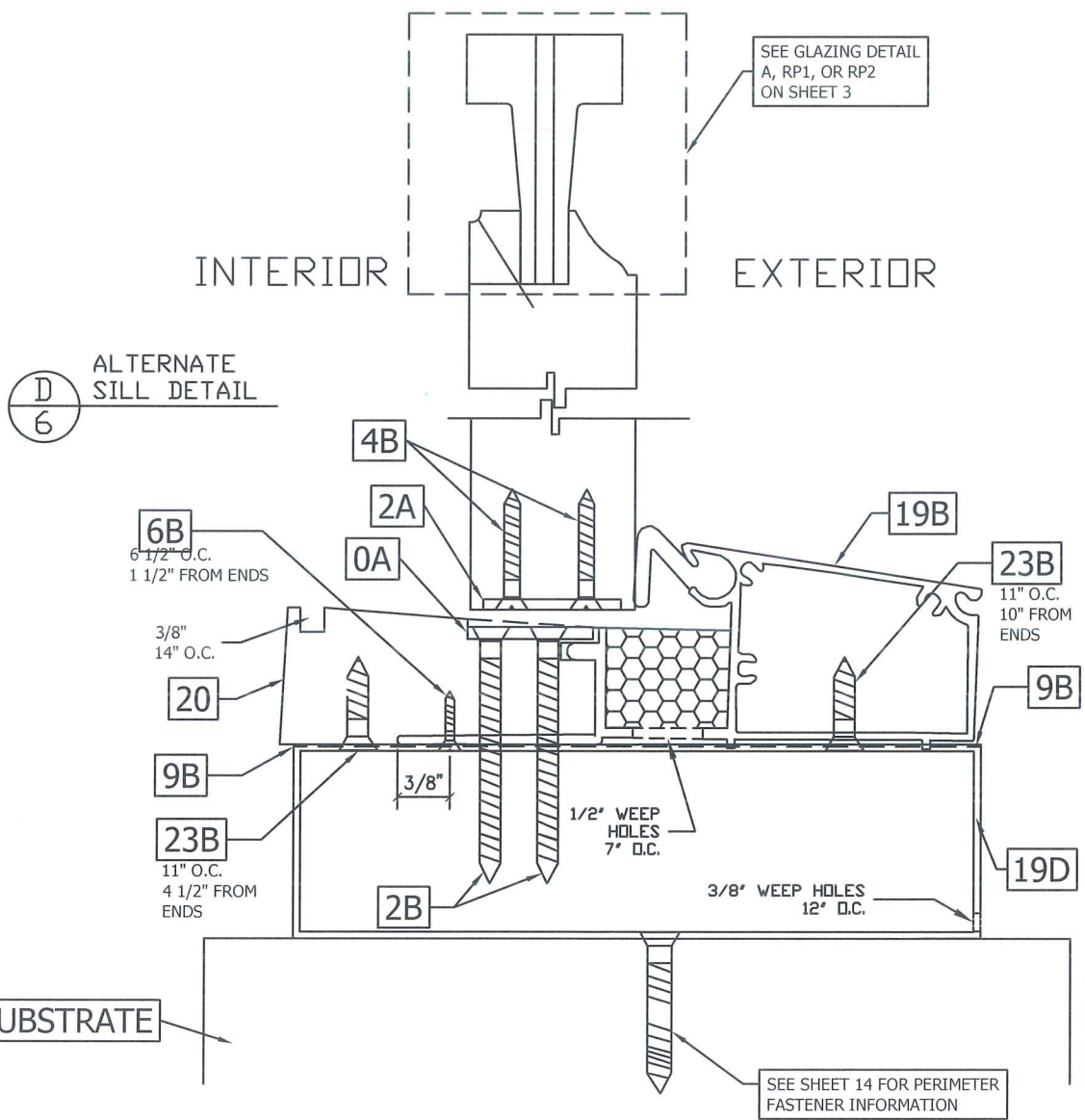
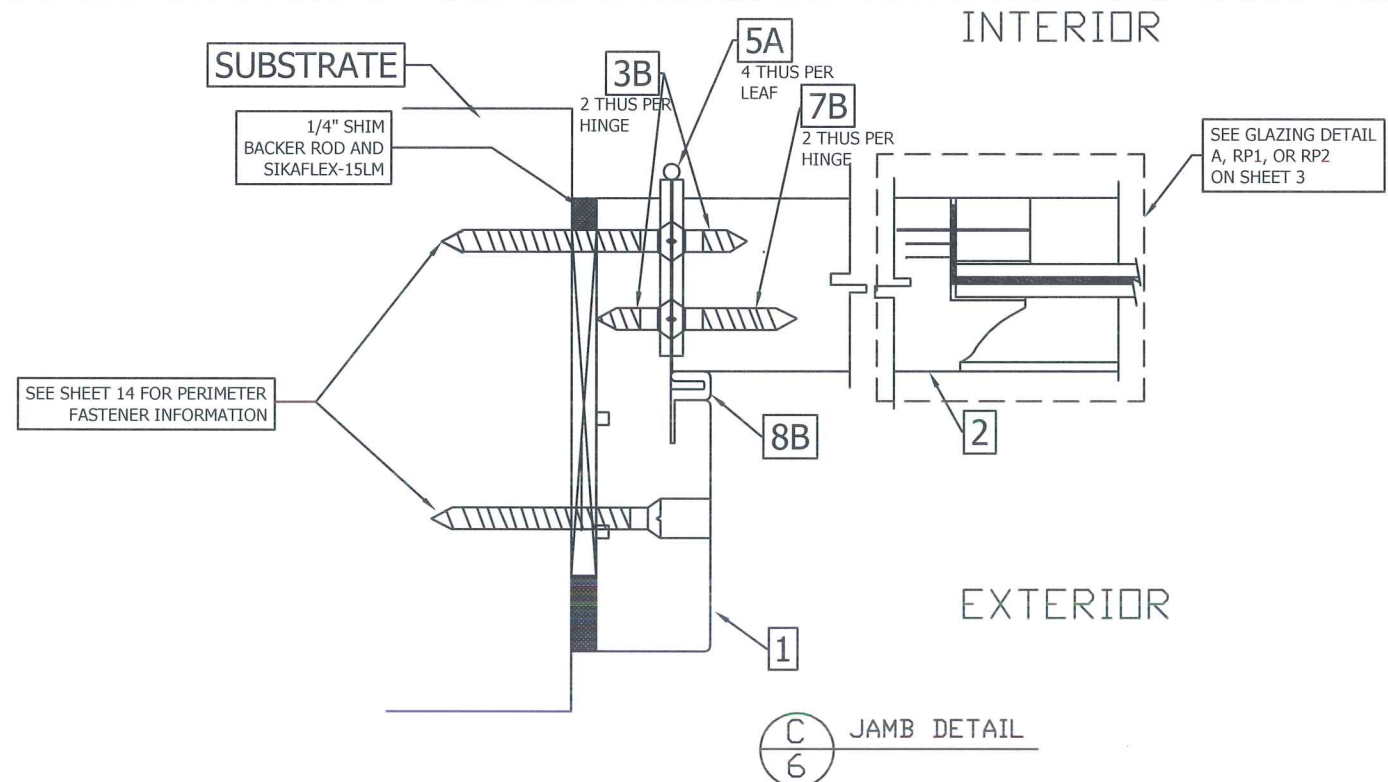
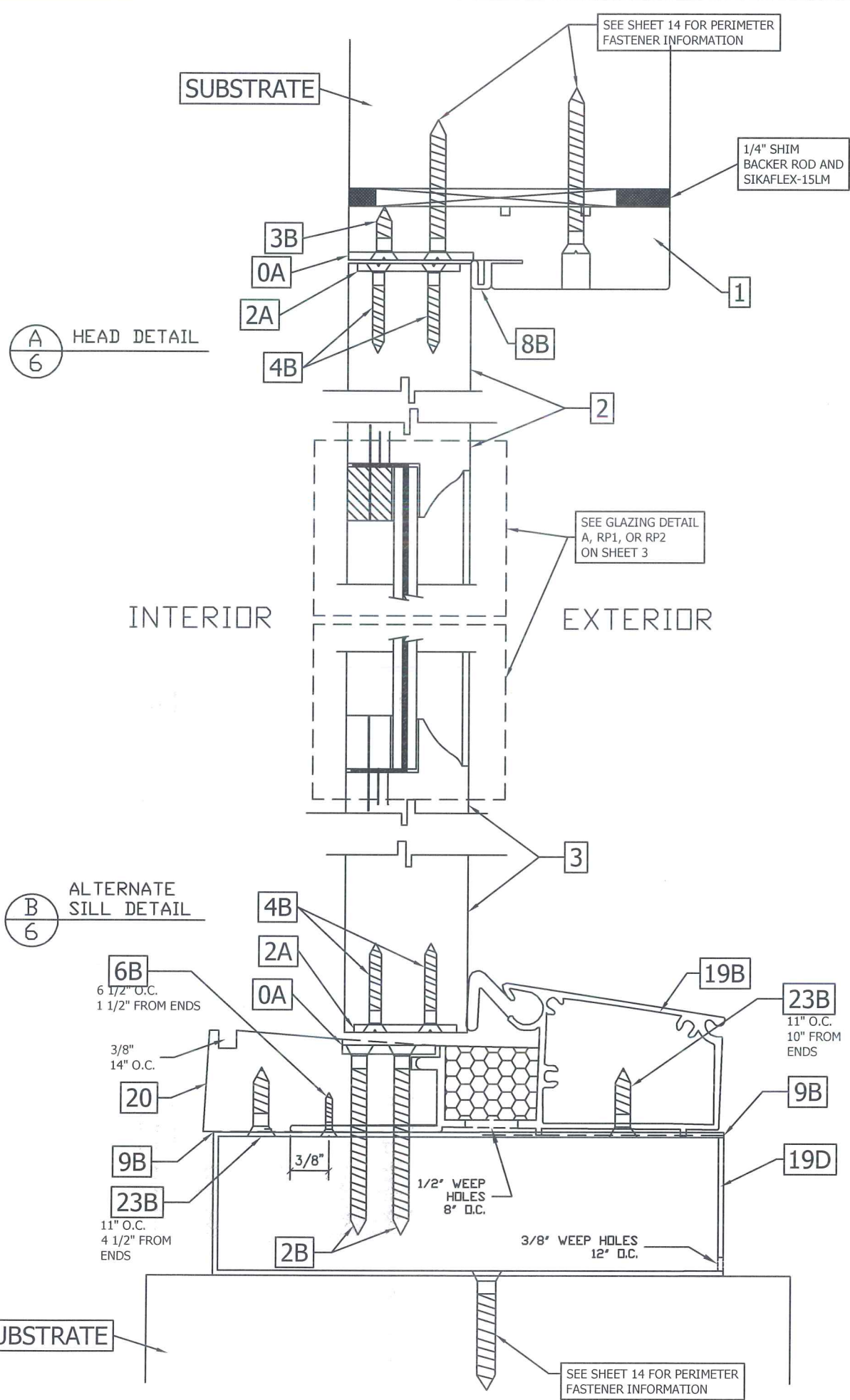
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PROJECT NAME	PORTILLO SERIES SWING DOOR
DRAWING #	002
SCALE	NTS
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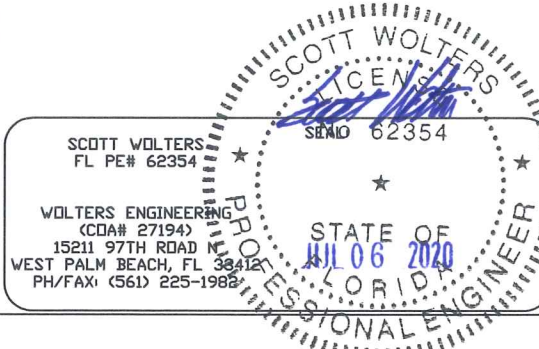
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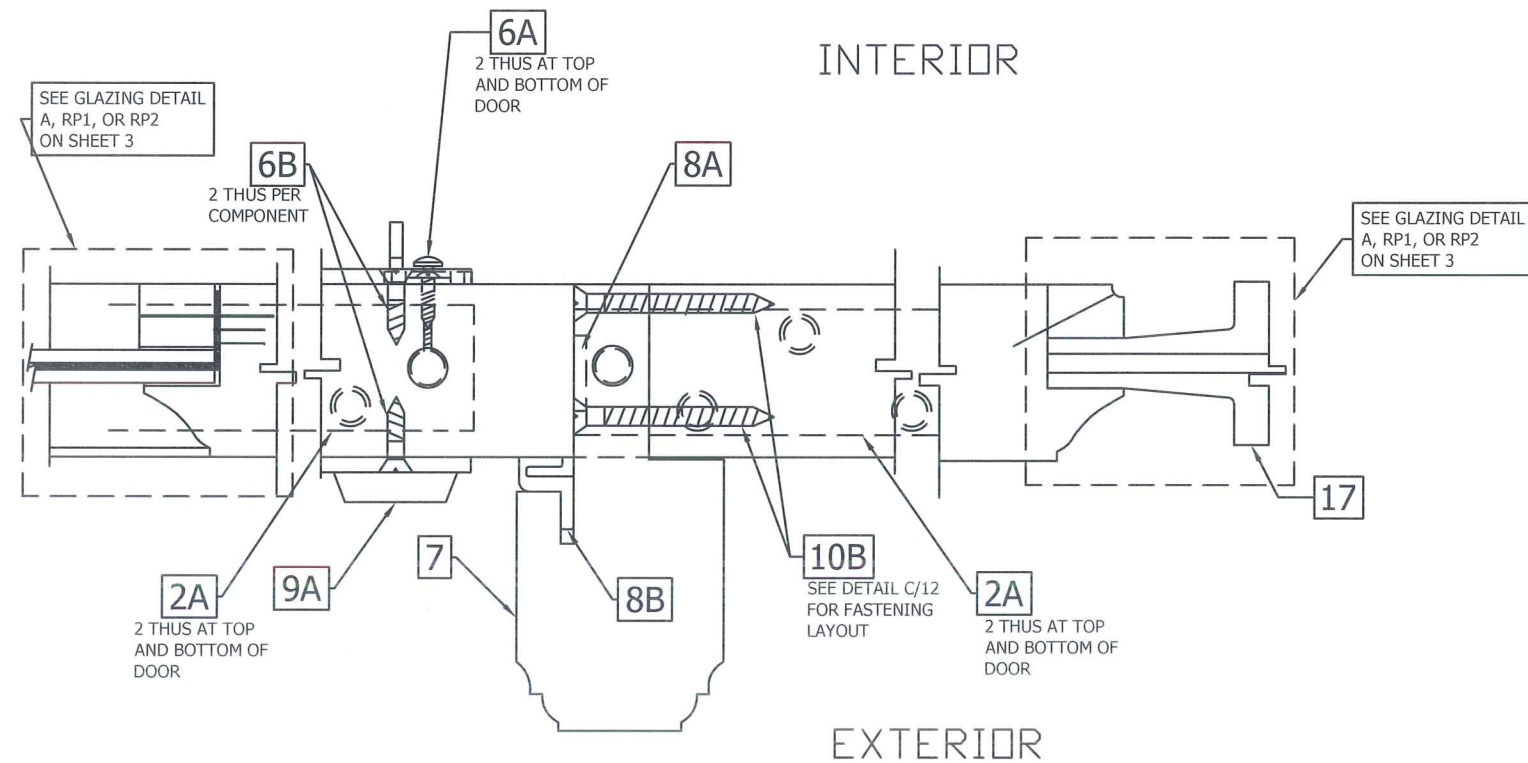


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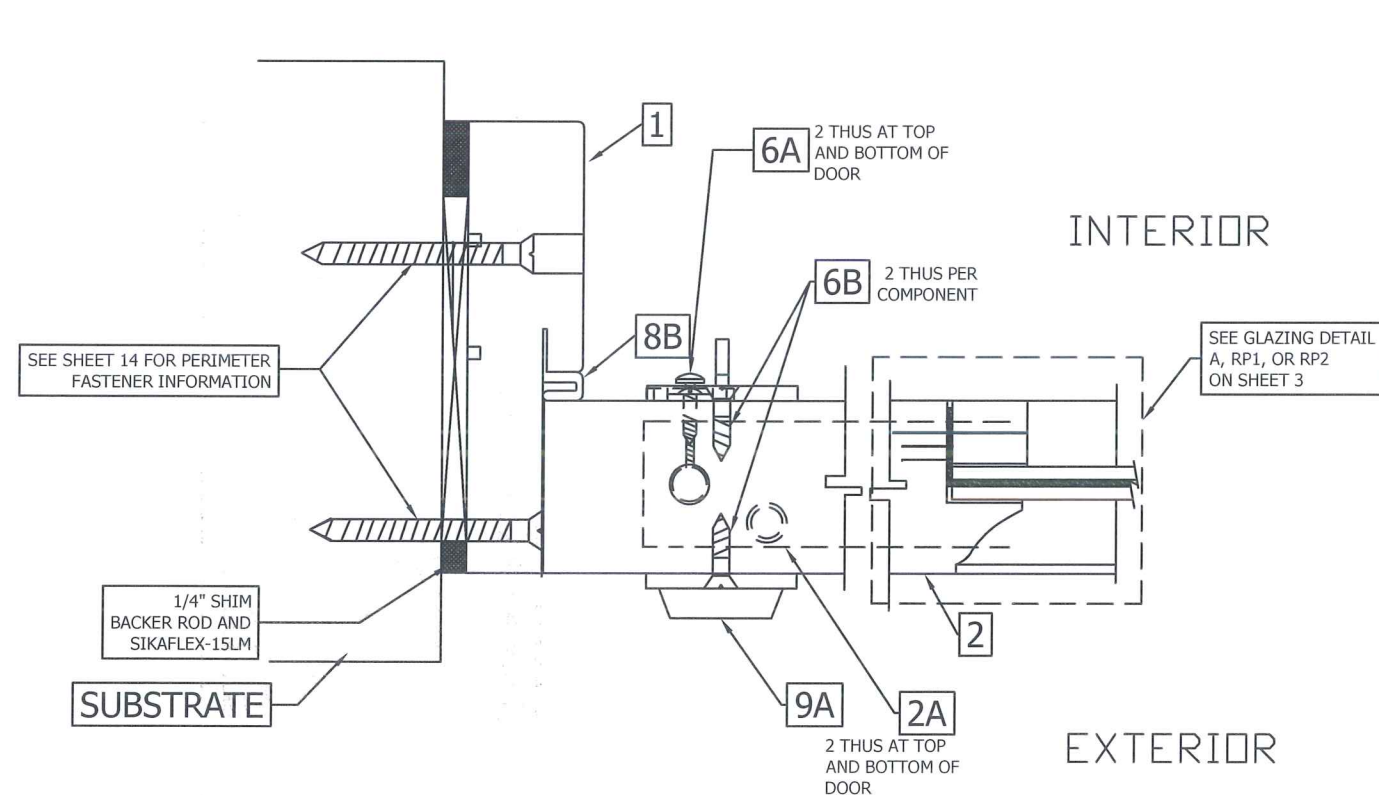
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SHEET	6 of 17

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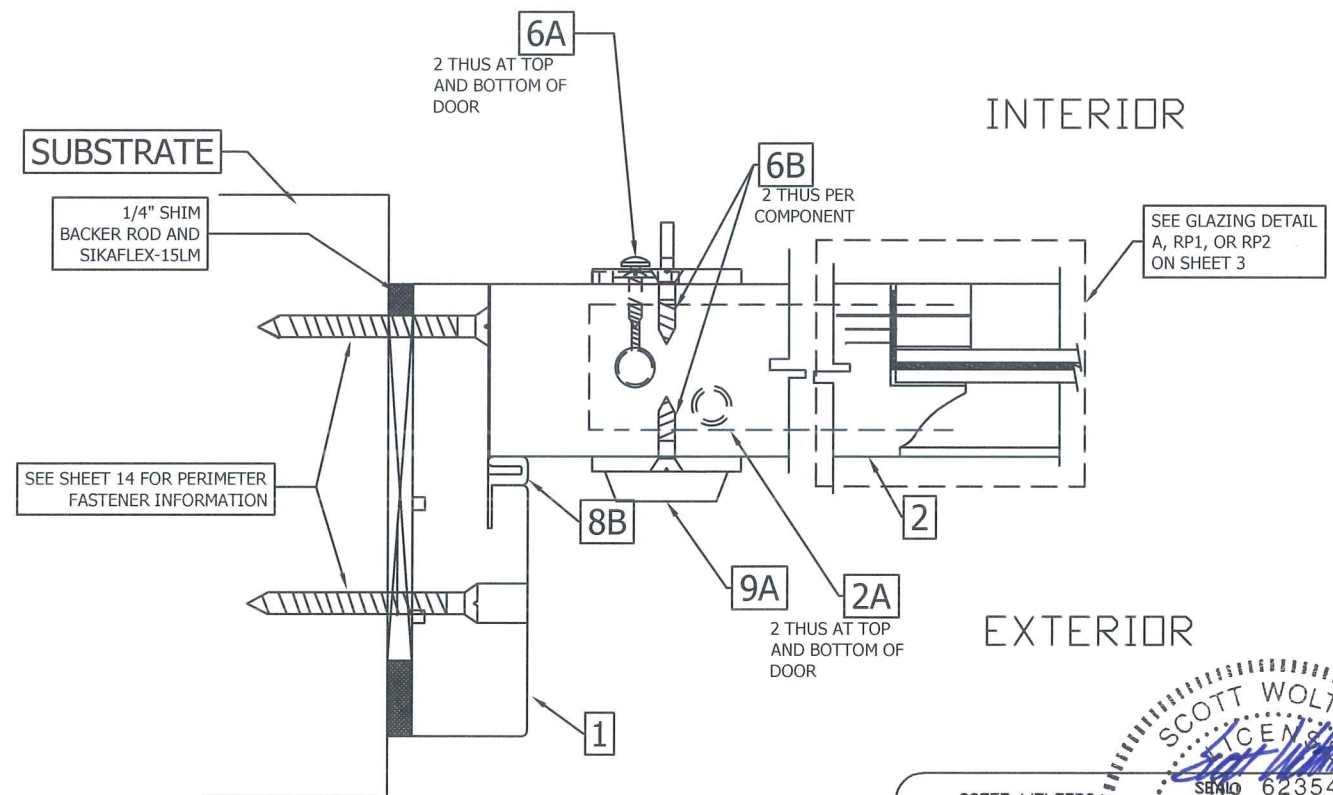




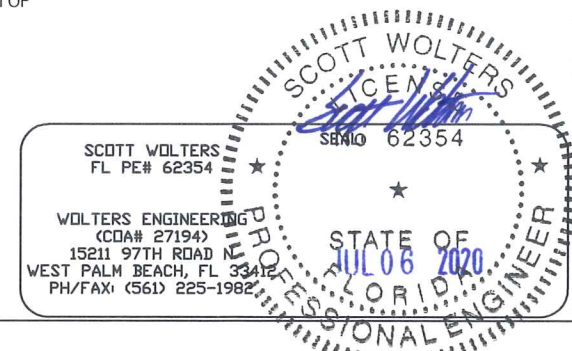
A
7 DOOR ASTRAGAL DETAIL



B
7 LOCK JAMB DETAIL
(OUTSWING)



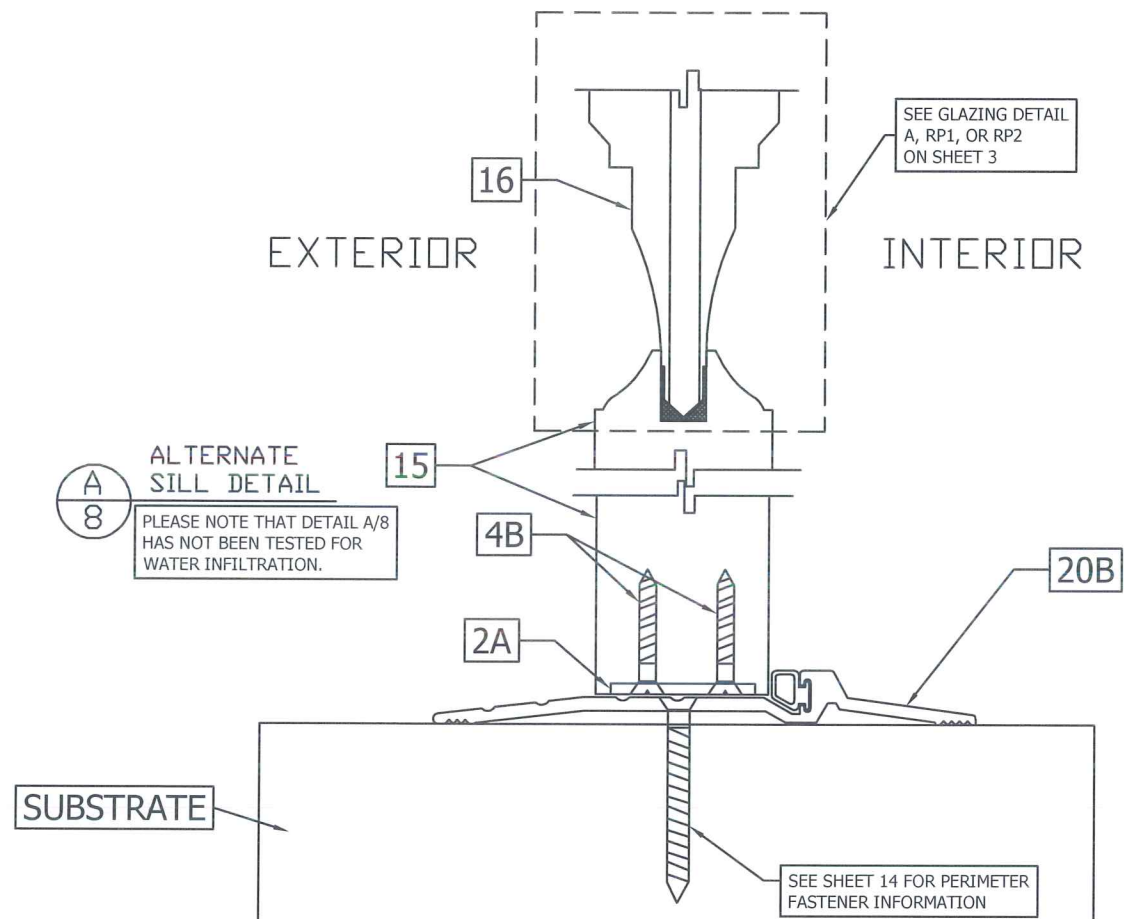
C
7 LOCK JAMB DETAIL
(INSWING)



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0	07/09/2012	ORIGINAL RELEASE	F.N.
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SHEET	7 of 17

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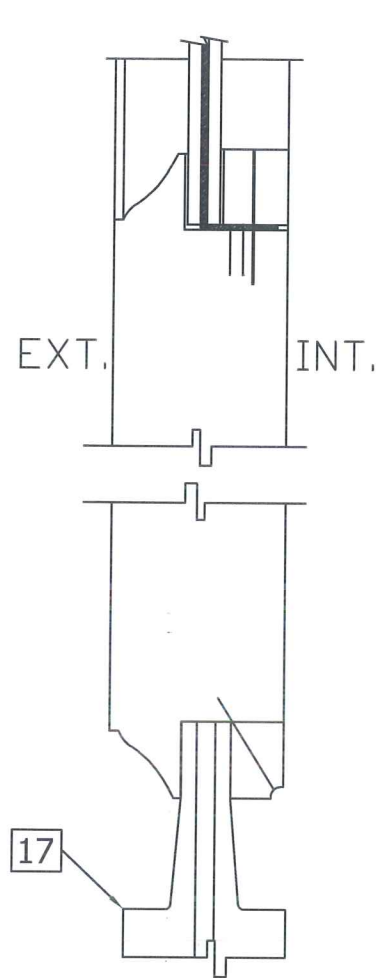
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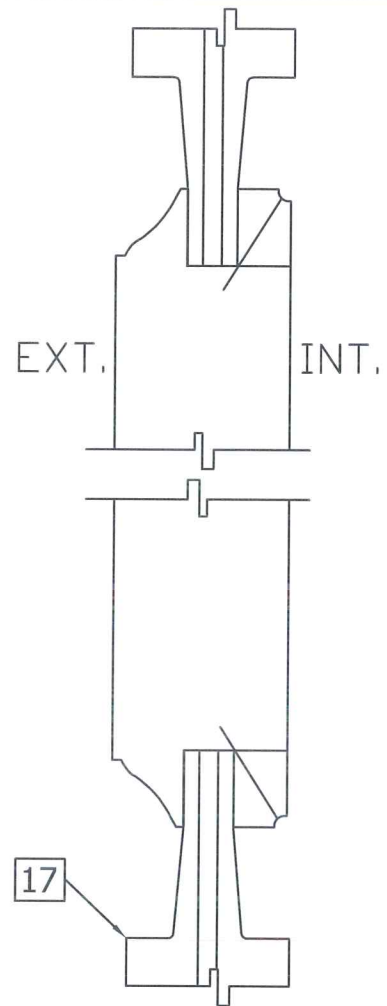
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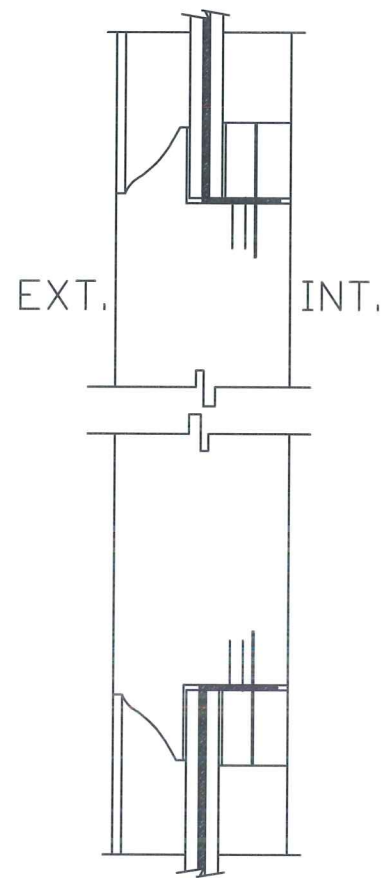
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DRAWING #	002
SCALE:	NTS
SHEET	8 of 17



A
9 MEETING RAIL DETAIL



B
9 MEETING RAIL DETAIL



C
9 MEETING RAIL DETAIL

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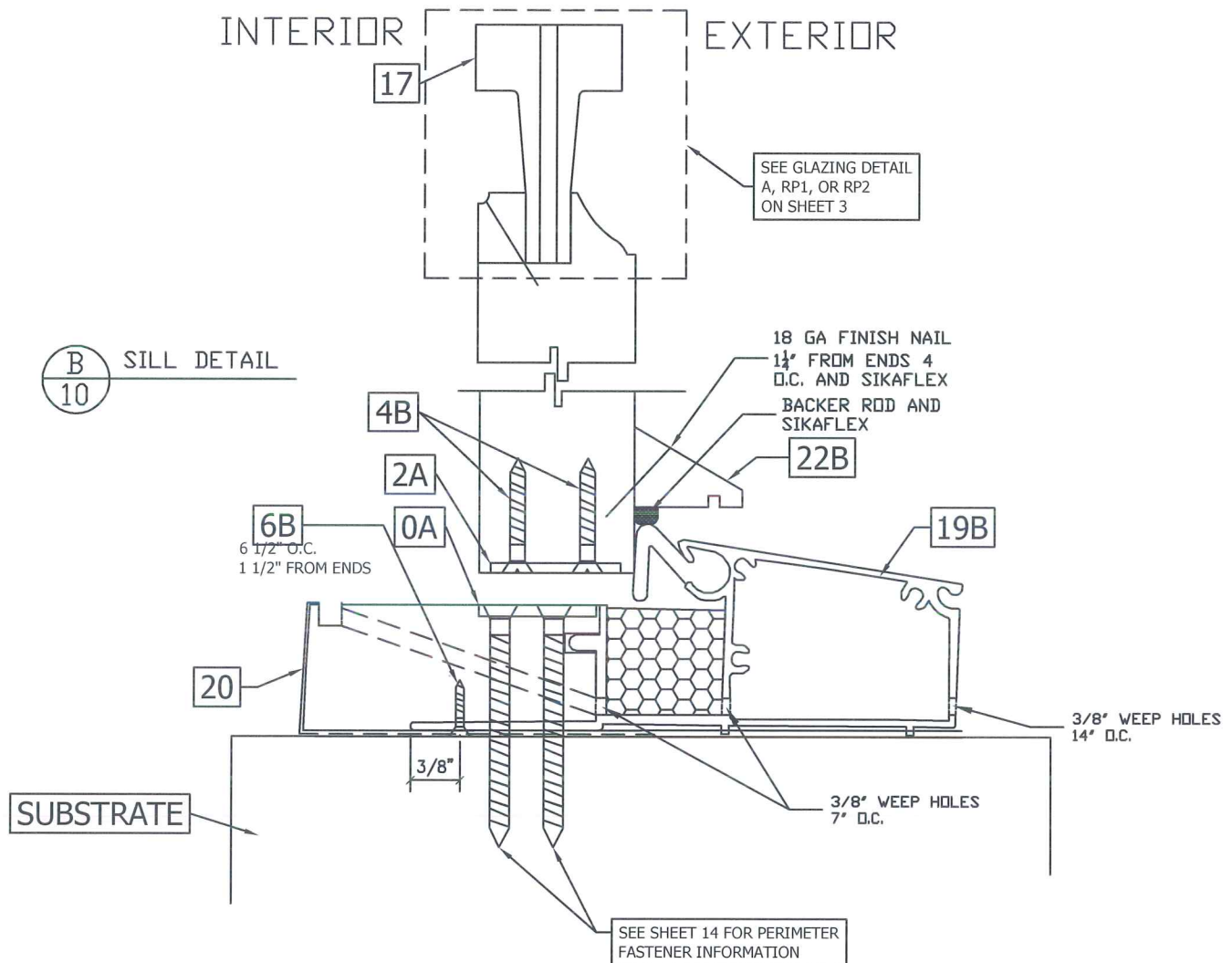
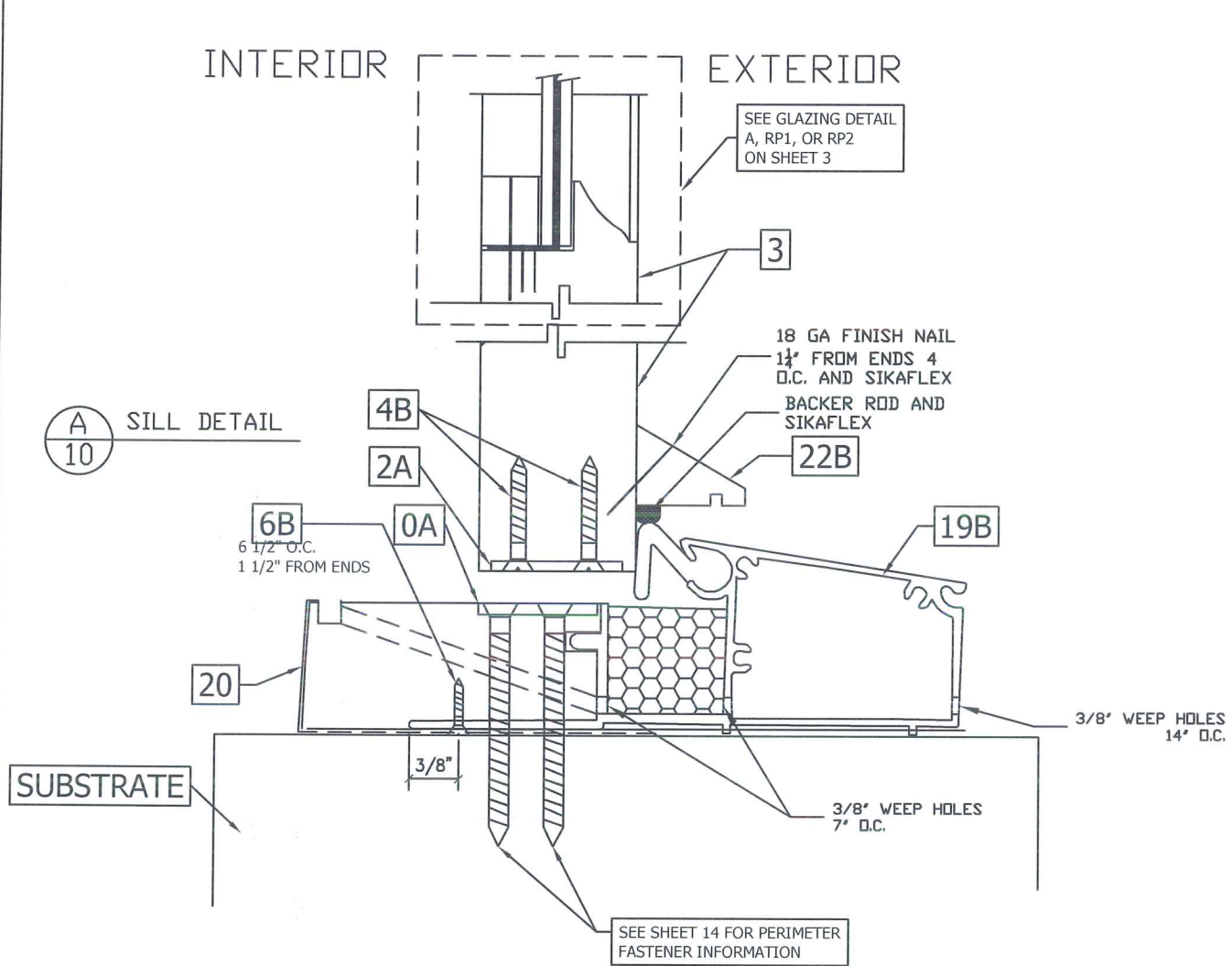
DRAWING # 002
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SHEET 9 of 17

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F.N.	ORIGINAL RELEASE	07/09/2012	0
	2ND SUBMITTAL	10/08/2012	1
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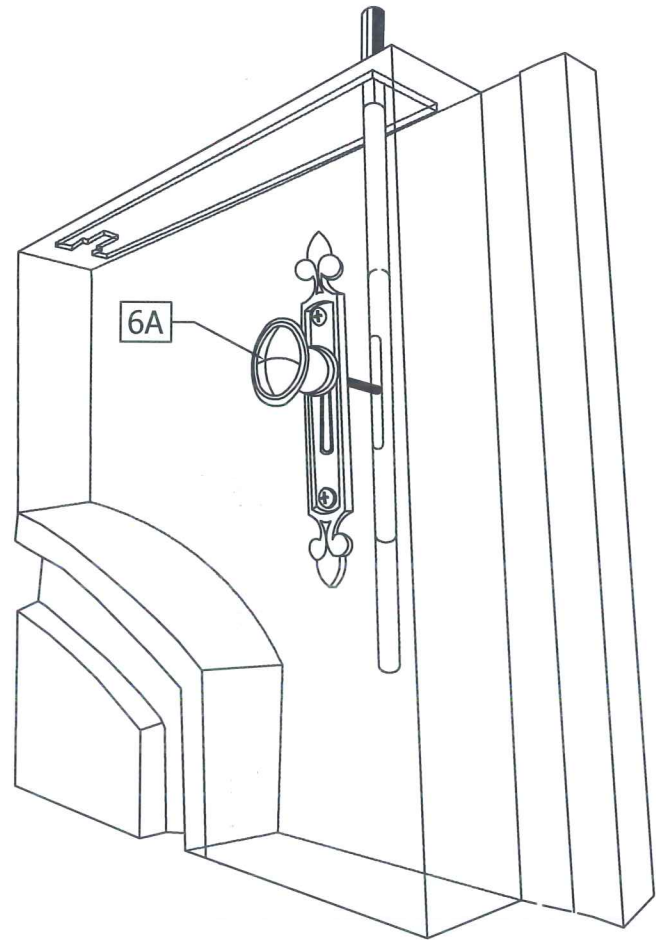
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SHEET 10 of 17

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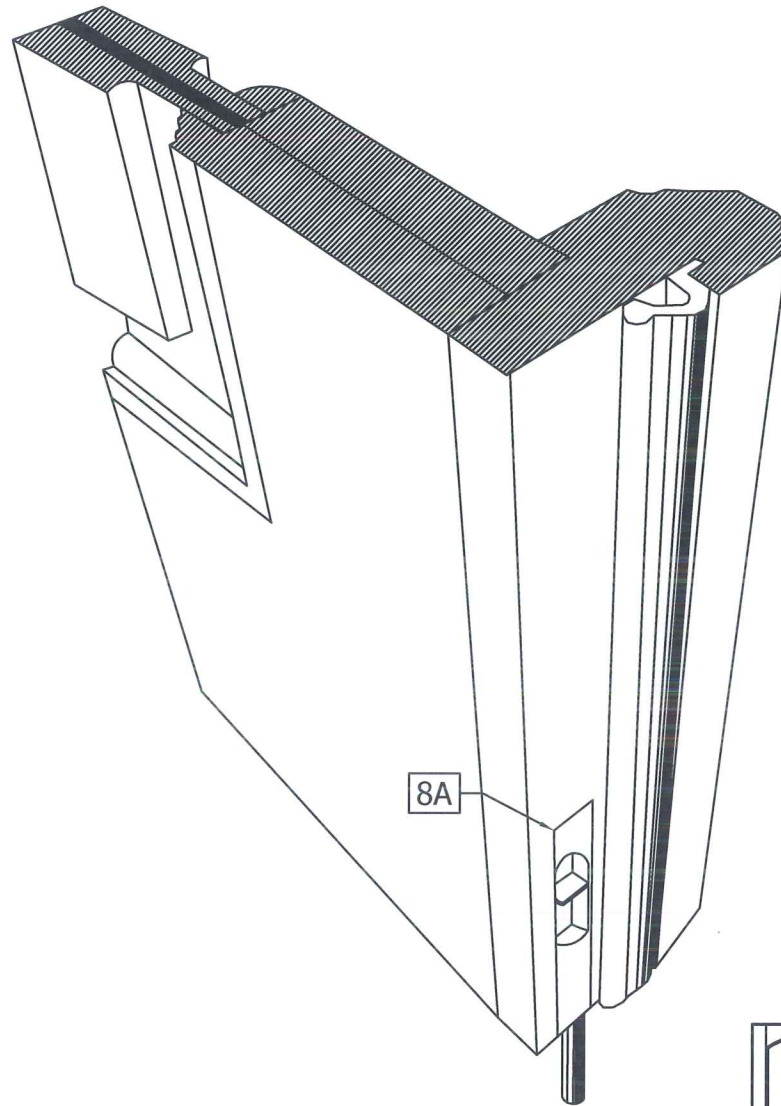
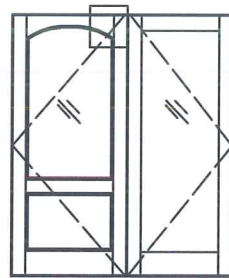
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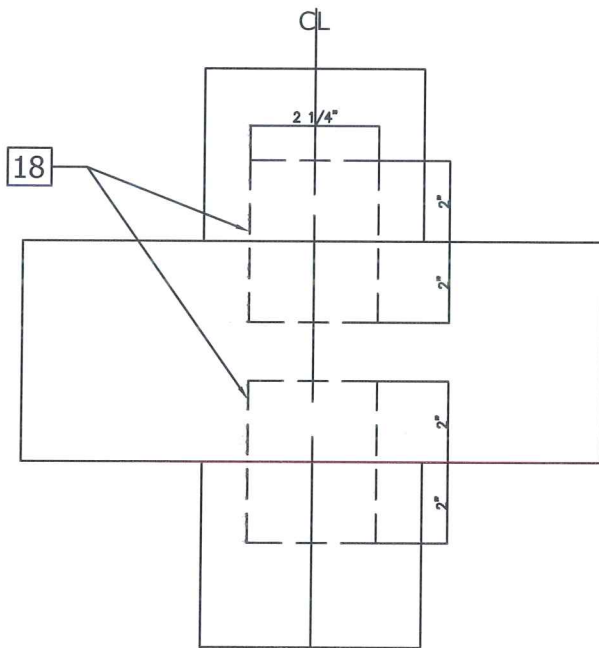
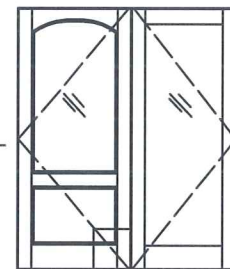
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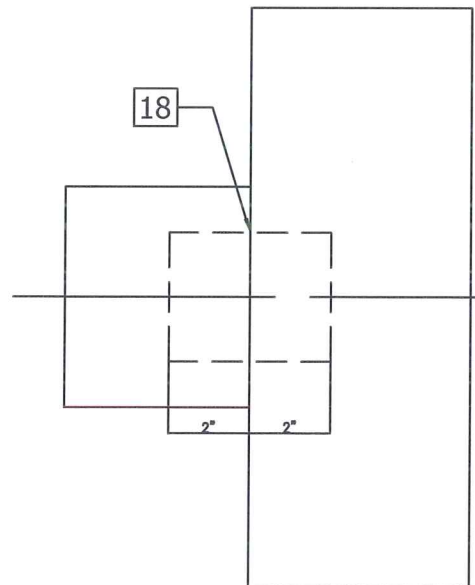
A
11 TYP. FRAME CORNER DETAIL (TOP RAIL)
(WITH LOCKING HARDWARE FOR
ACTIVE DOOR)



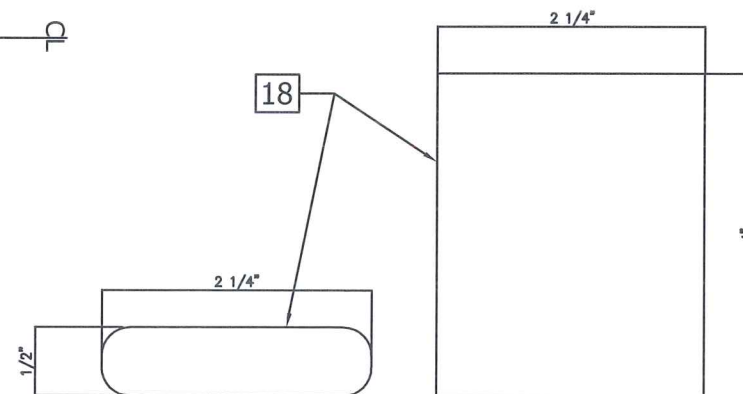
B
11 TYP. FRAME CORNER DETAIL (BOTTOM RAIL)
(WITH LOCKING HARDWARE FOR
IN-ACTIVE DOOR)



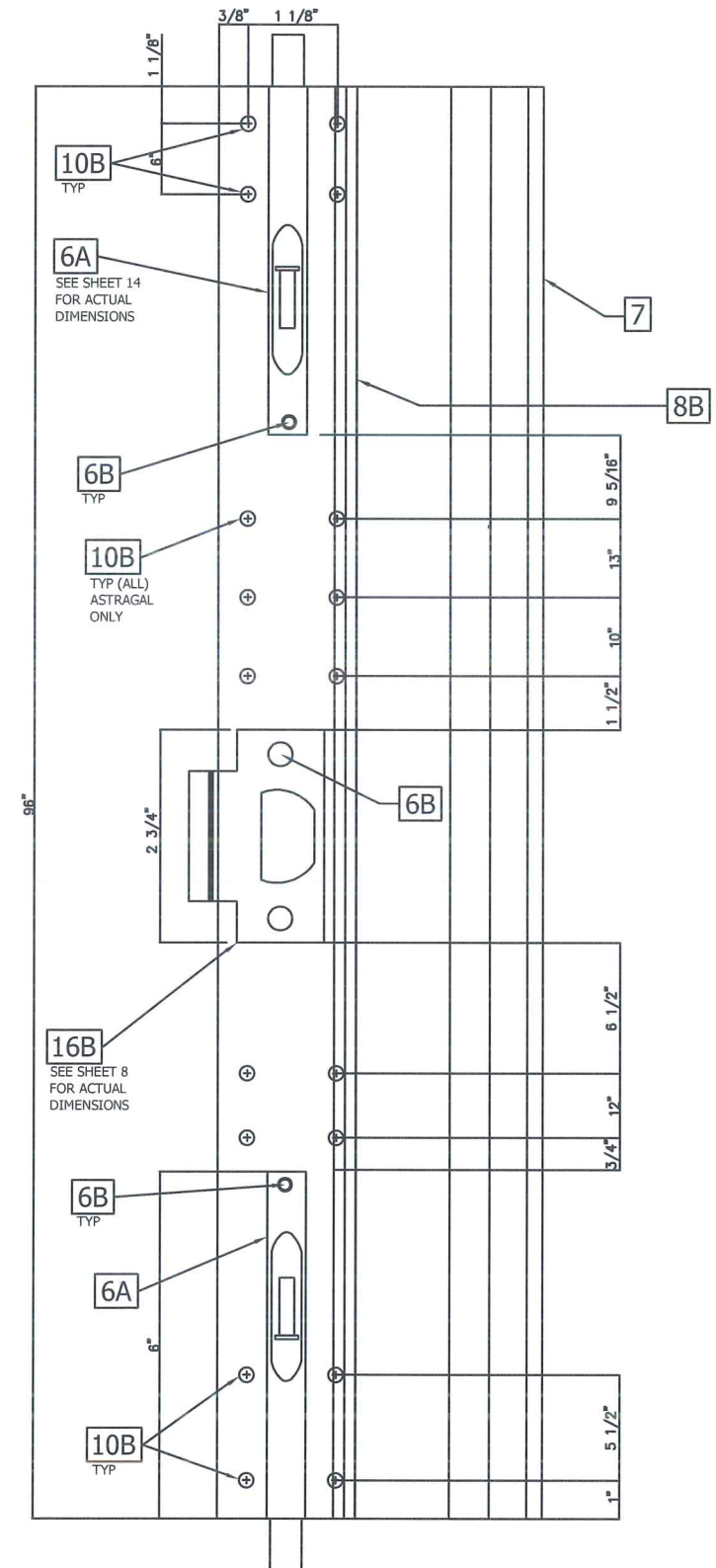
D
11 INTERNAL TENDON
DETAIL



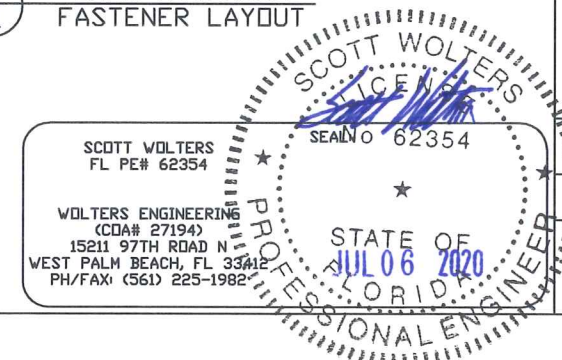
D1
11 INTERNAL TENDON
DETAIL



INTERNAL TENDON
DIMENSIONS



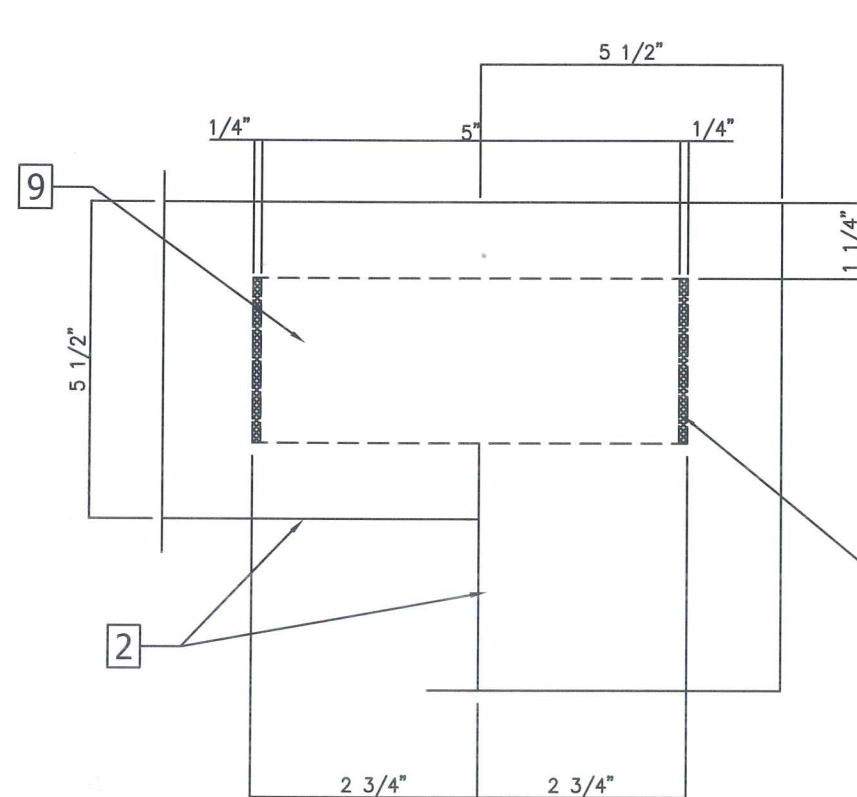
C
11 DOOR ASTRAGAL
FASTENER LAYOUT



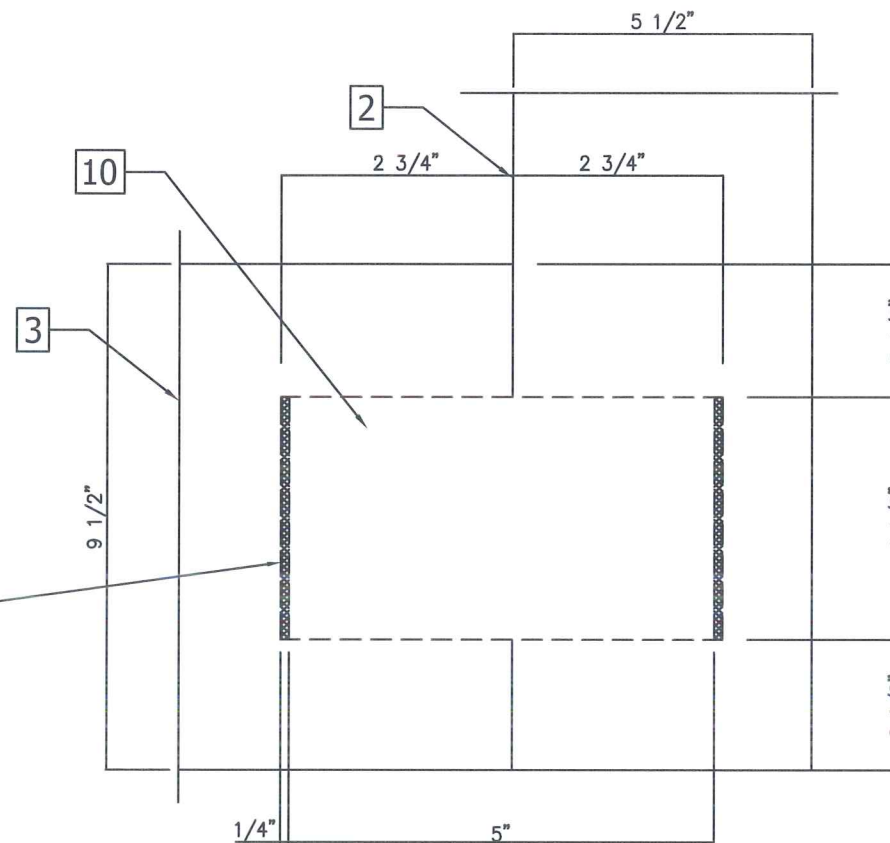
REV.	DATE	DESCRIPTION	BY
1	07/09/2012	ORIGINAL RELEASE	F.N.
2	10/08/2012	2ND SUBMITTAL	
3	12/17/2012	3RD SUBMITTAL	

PROJECT NAME:		PORTILLO SERIES SWING DOOR
Lag Design of Florida		
3850 Byron Drive, #1		
Riviera Beach, FL 33404		
PHONE: 561.841.8590		
FAX: 561.841.9440		

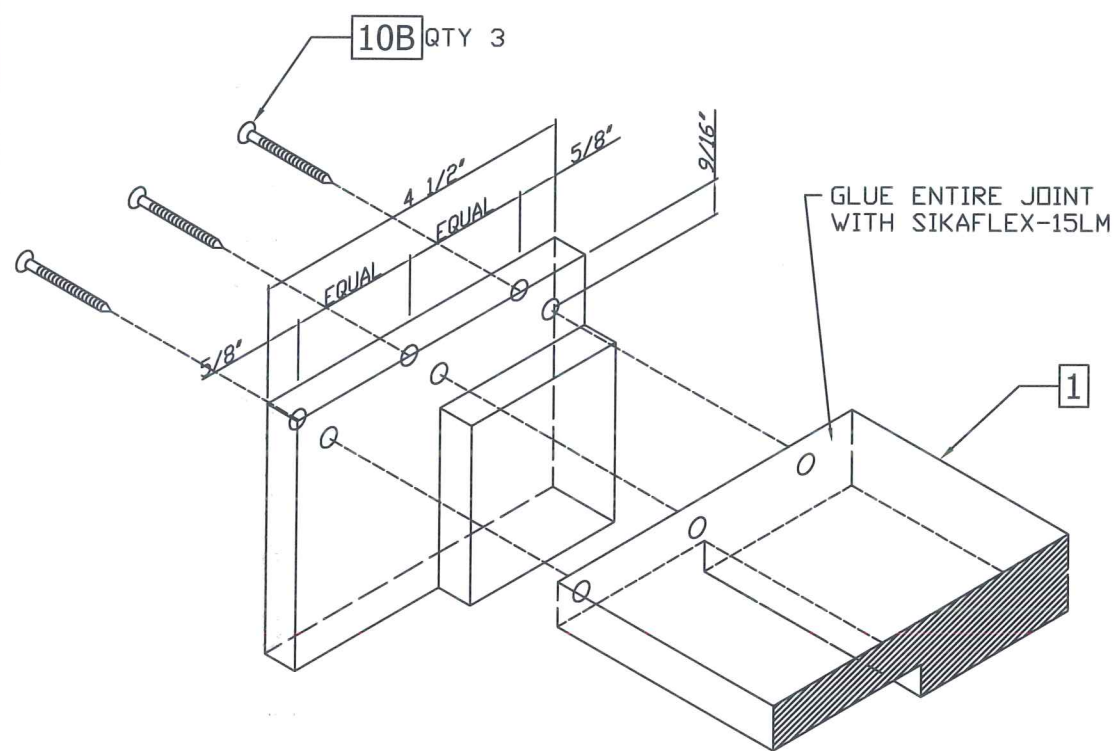
DRAWING #	002
SCALE	NTS
SHEET	11 of 17



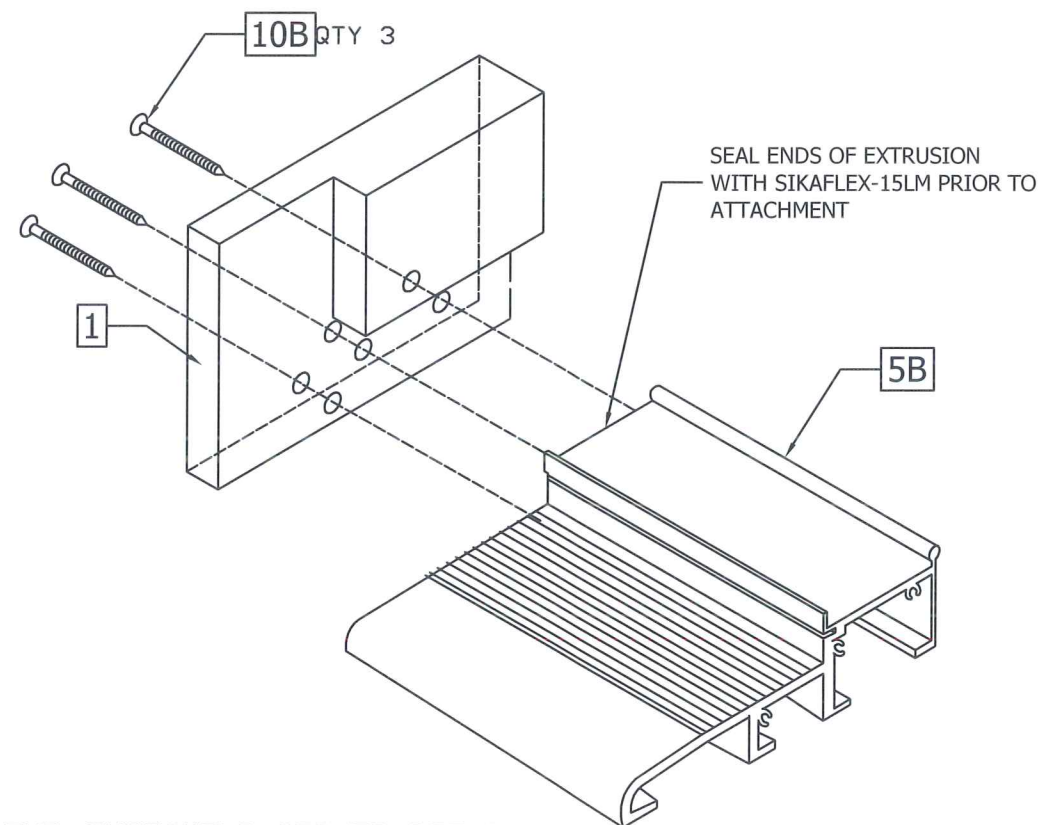
A
12 TYP. TOP RAIL ASSEMBLY DETAIL



B
12 TYP. BOTTOM RAIL ASSEMBLY DETAIL



C
12 TYP. FRAME CORNER DETAIL
(ALL JAMB MEMBERS TO BE SCREWED AT ALL CORNERS)
SCALE: NTS

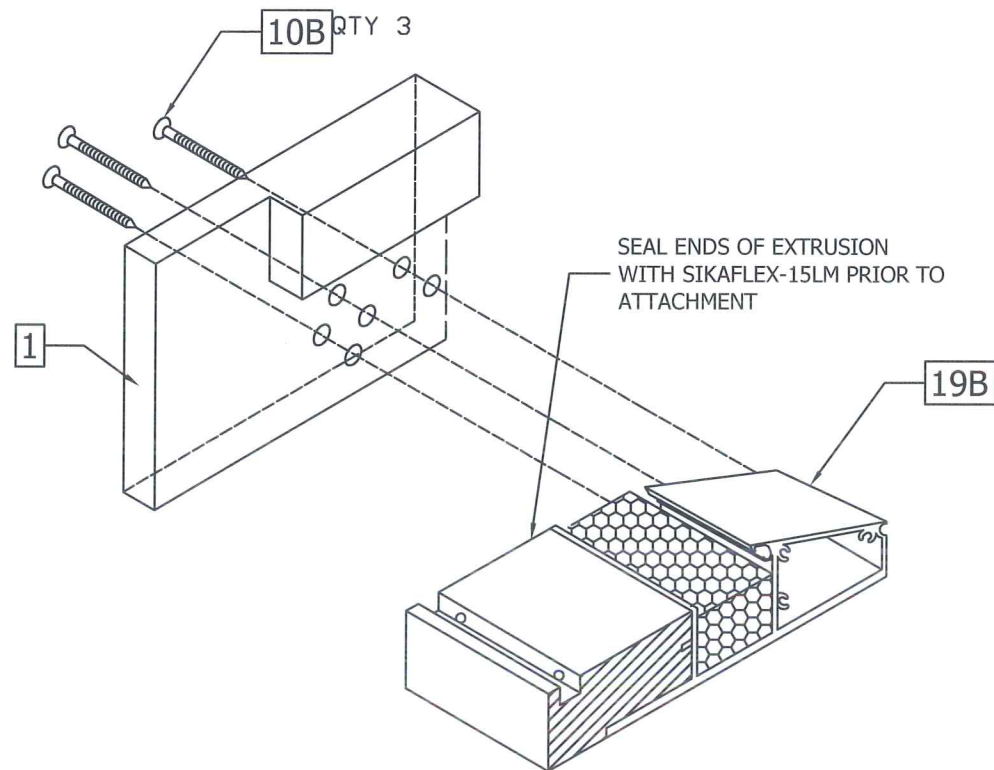


D
12 TYP. THRESHOLD CORNER DETAIL
(ALL JAMB MEMBERS TO BE SCREWED AT ALL CORNERS)
SCALE: NTS

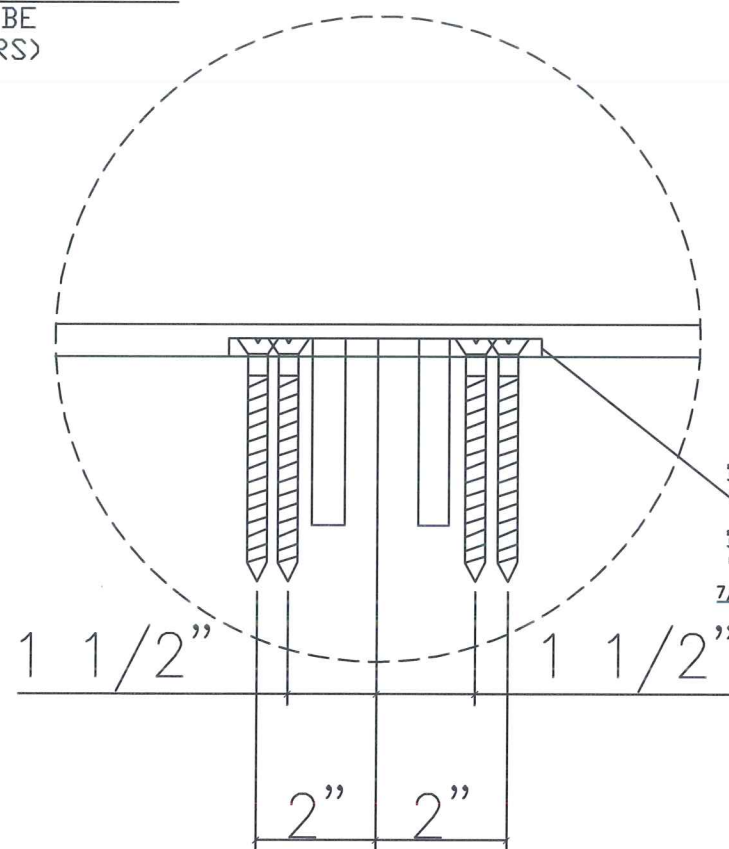


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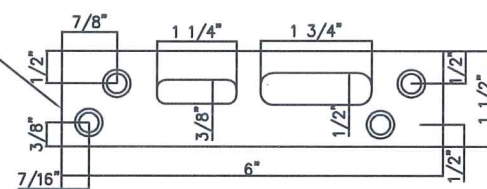
PROJECT NAME:	PORTILLO SERIES SWING DOOR
Lag Design of Florida 3850 Byron Drive, #1 Riviera Beach, FL 33404 PHONE: 561.841.8590 FAX: 561.841.9440	
DRAWING #	002
SCALE:	NTS
SHEET	12 of 17



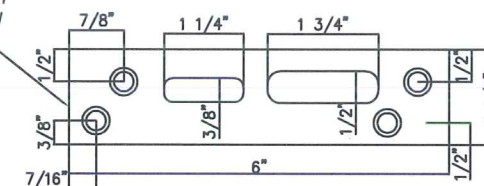
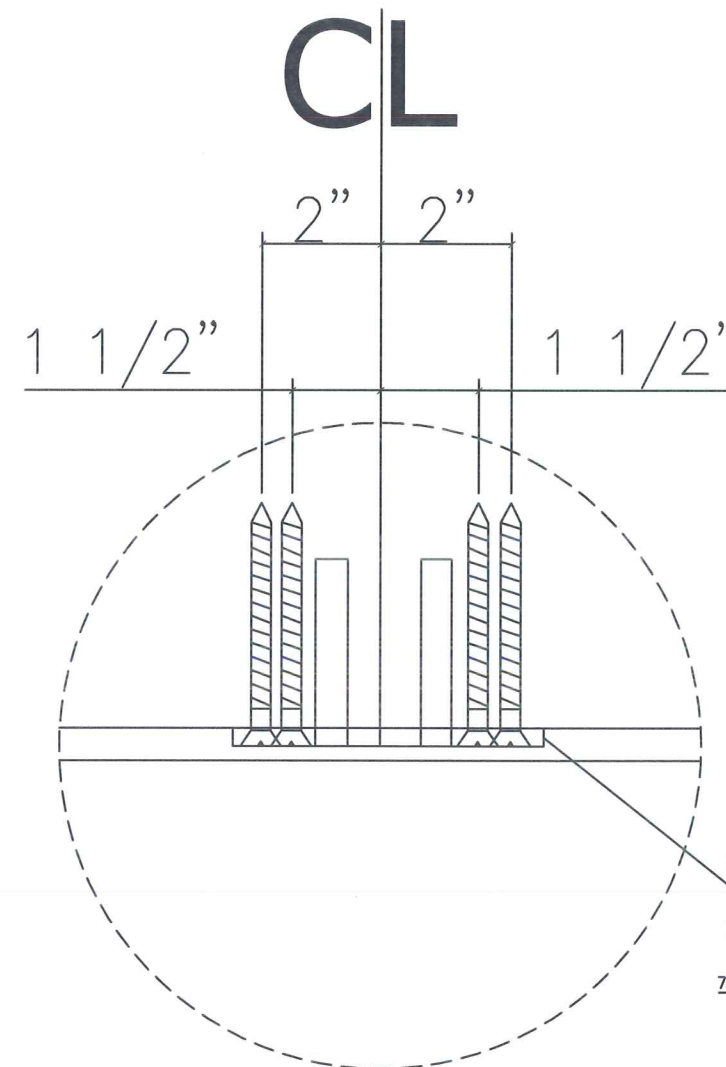
A
13 INSWING THRESHOLD CORNER DETAIL
(ALL JAMB MEMBERS TO BE
SCREWED AT ALL CORNERS)
SCALE: NTS



B
13 STRIKE PLATE FASTENER LAYOUT



C
13 STRIKE PLATE FASTENER LAYOUT



SCOTT WOLTERS
FL PE# 62354

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

SCOTT WOLTERS
FL PE# 62354

STATE OF
FLORIDA

PROFESSIONAL ENGINEER

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PORTILLO SERIES SWING DOOR

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3850 Byron Drive, #1
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PHONE: 561.841.8590
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DRAWING #

002

SCALE:

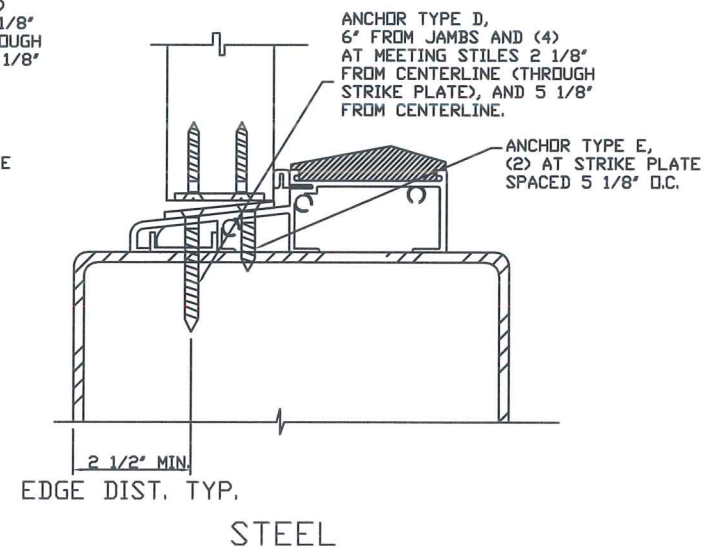
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SHEET

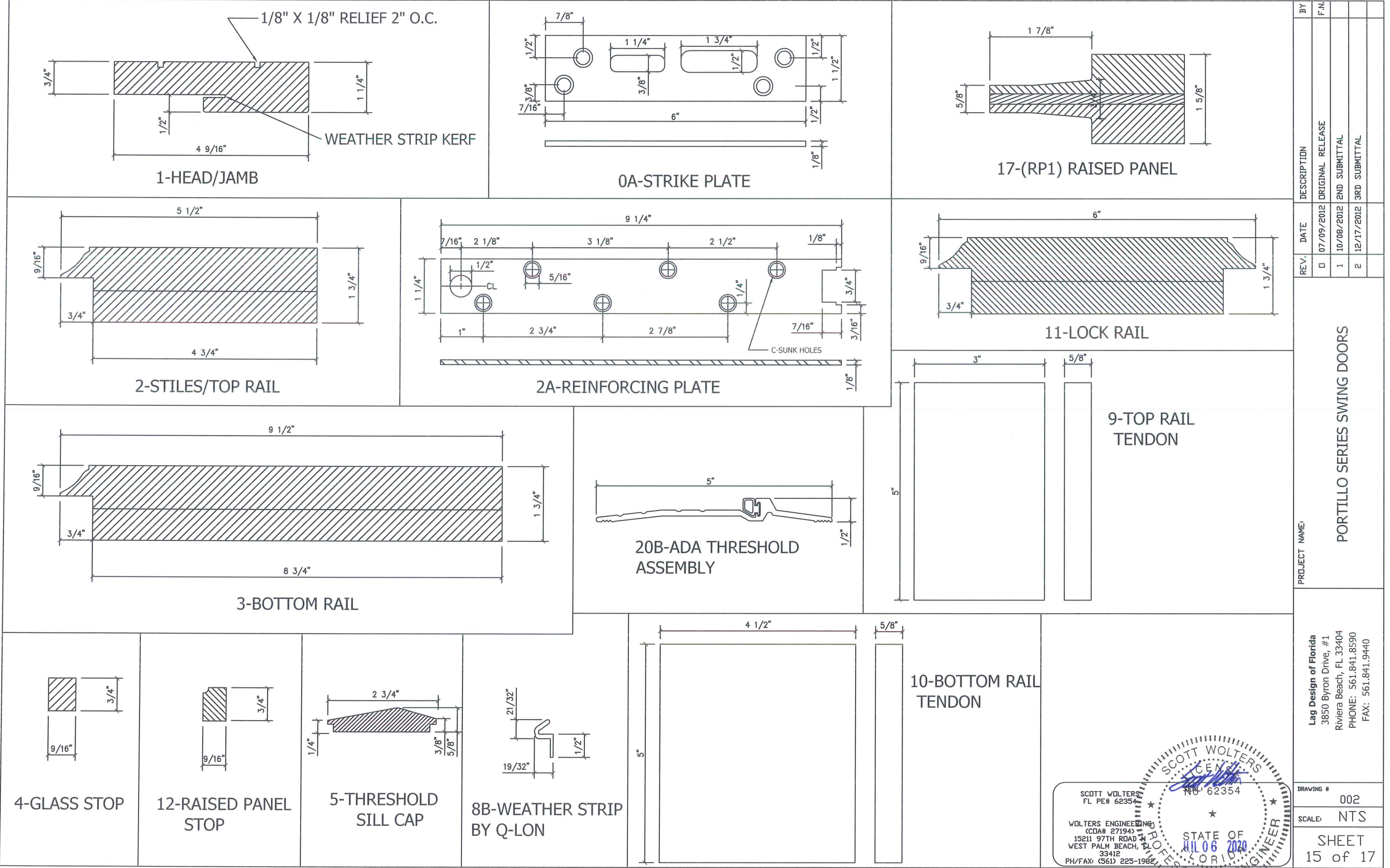
13 of 17

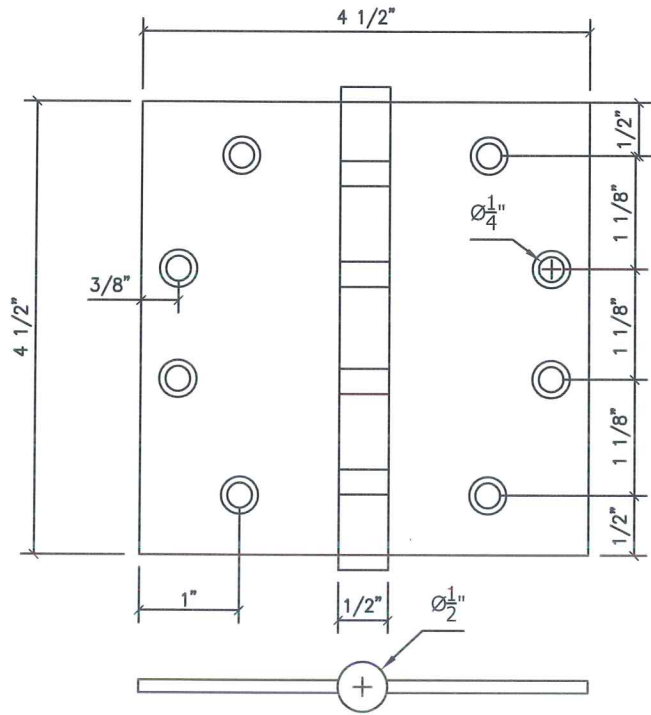
TYPICAL ANCHOR CONDITIONS

- ANCHOR TYPE A,C,D, OR E,
1 3/4" ABOVE AND BELOW
CENTERLINE OF HINGE.

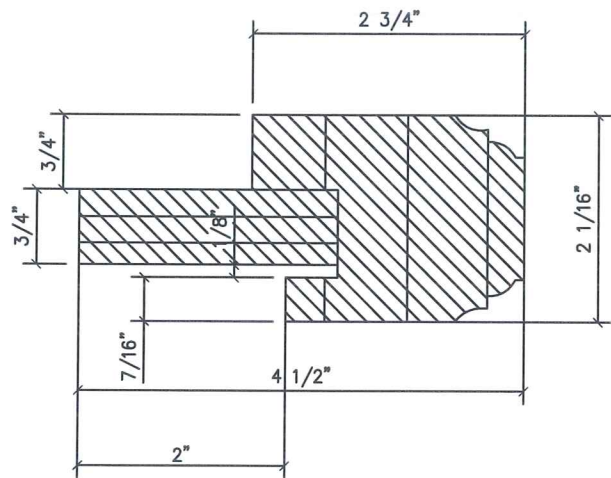


Lag Design of Florida 3850 Bryon Drive, #1 Riviera Beach, FL 33404 PHONE: 561.841.8590 FAX: 561.841.9440		PROJECT NAME:		PORTILLO SERIES SWING DOOR	
DRAWING #	002	REV.	DATE	DESCRIPTION	BY
SCALE	NTS	0	07/09/2012	ORIGINAL RELEASE	F.N.
SHEET 14 of 17		1	10/08/2012	2ND SUBMITTAL	
		2	12/17/2012	3RD SUBMITTAL	

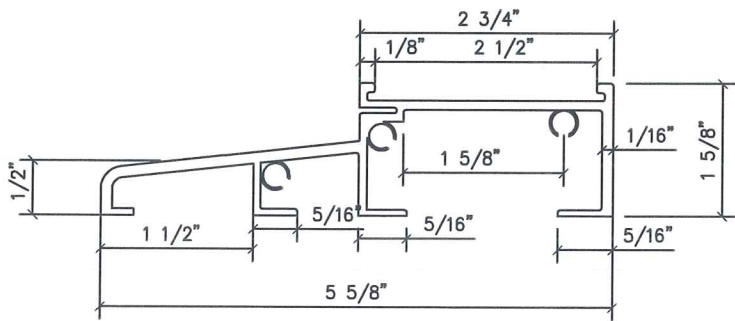




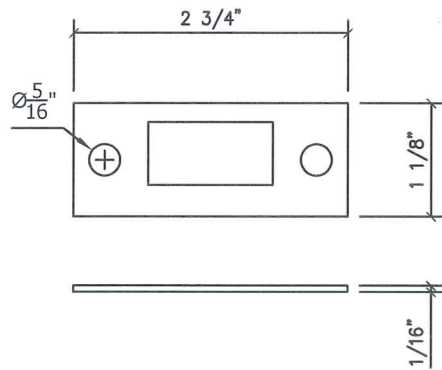
5A-HINGE



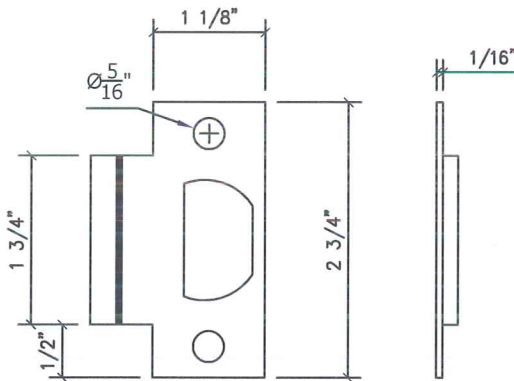
7-ASTRAGAL



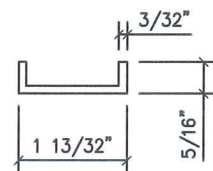
5B-HIGH DAM THRESHOLD



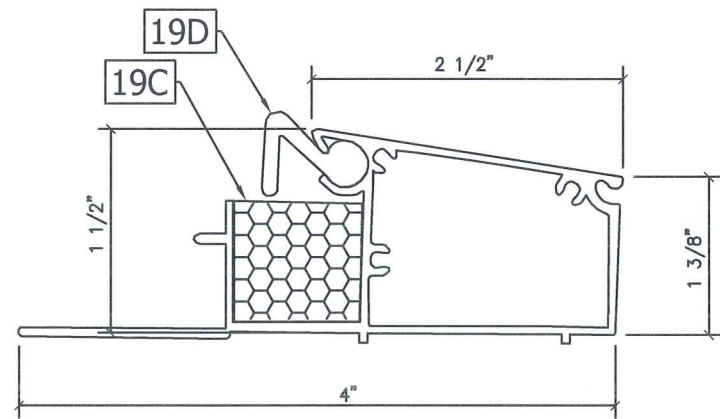
15B-LOCK THROW
PLATE (LTP-1)



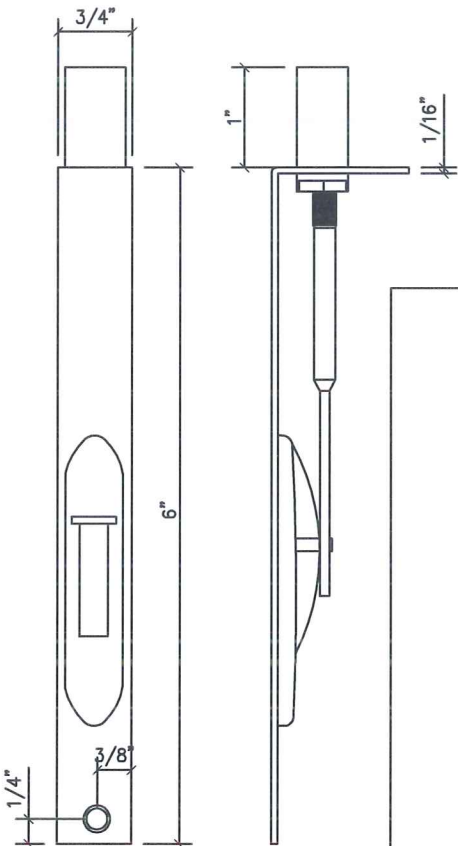
16B-LOCK THROW
PLATE (LTP-2)



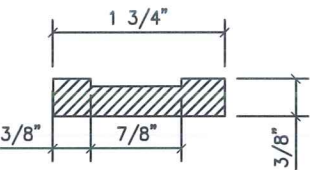
21B-ALUMINUM CHANNEL



19B - HYDROSILL SERIES 5000



6A-FLUSH BOLT
BY DELTANA



8-ASTRAGAL
COVER

SCOTT WOLTERS
FL PE# 62354

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

STATE OF
FLORIDA
PROFESSIONAL ENGINEER

11/10/2020

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PROJECT NAME:

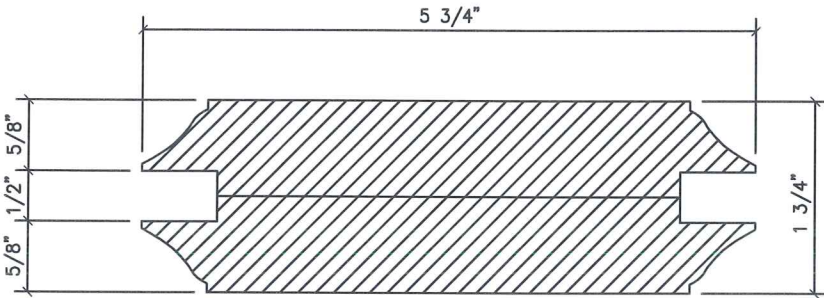
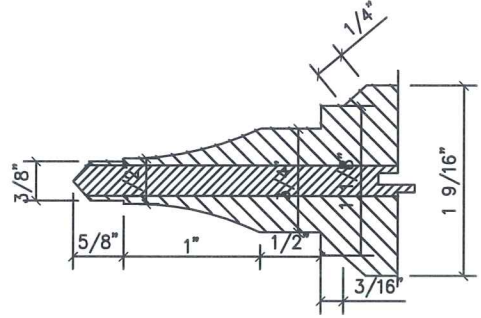
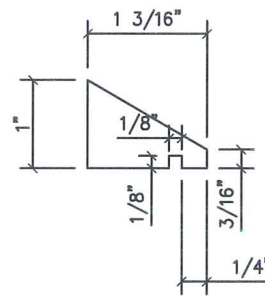
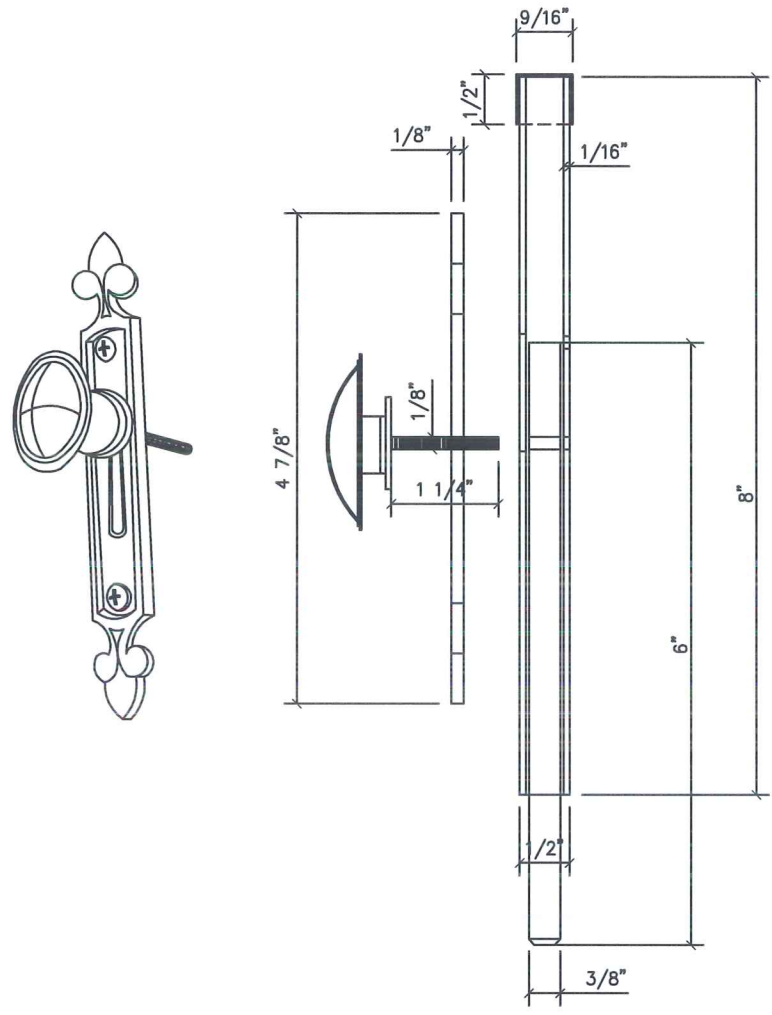
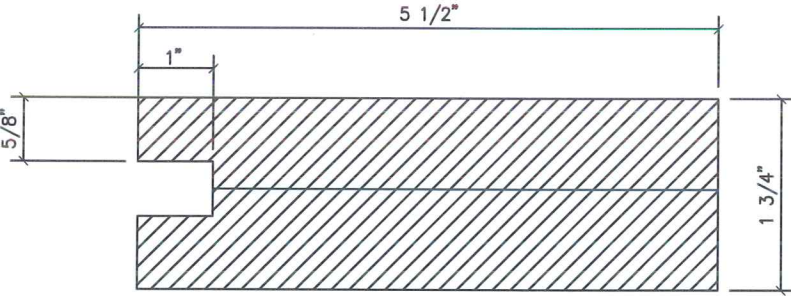
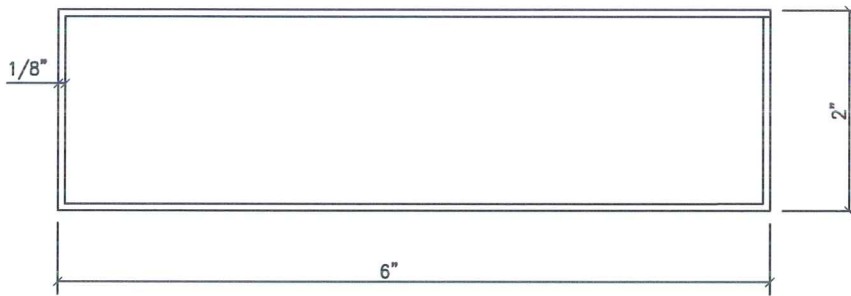
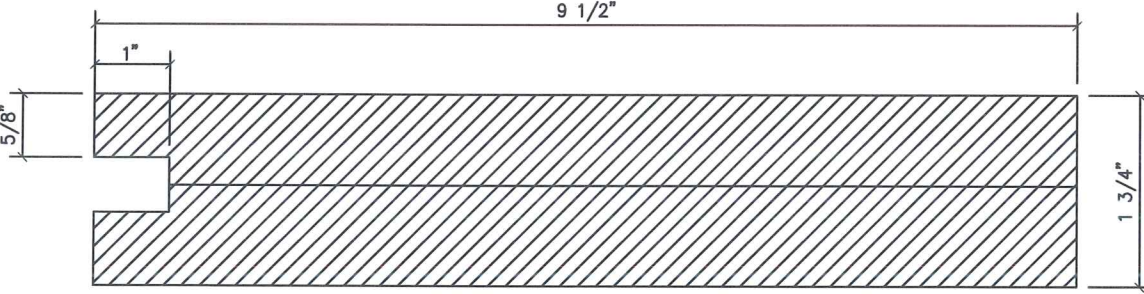
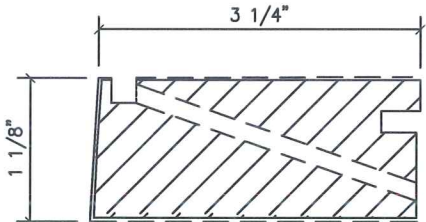
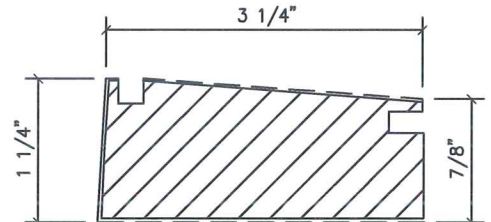
PORTILLO SERIES SWING DOORS

Lag Design of Florida
3850 Byron Drive, #1
Riviera Beach, FL 33404
PHONE: 561.841.8590
FAX: 561.841.9440

DRAWING # 002

SCALE: NTS

SHEET 16 of 17

 13-INTERMEDIATE RAIL FOR RP2	 16-(RP2) RAISED PANEL FOR RP2	 21-DOOR BOTTOM FLAP	 6A - STORM BOLT	<table><tr><th>REV.</th><th>DATE</th><th>DESCRIPTION</th><th>BY</th></tr><tr><td>0</td><td>07/09/2012</td><td>ORIGINAL RELEASE</td><td>F.N.</td></tr><tr><td>1</td><td>10/08/2012</td><td>2ND SUBMITTAL</td><td></td></tr><tr><td>2</td><td>12/17/2012</td><td>3RD SUBMITTAL</td><td></td></tr></table>	REV.	DATE	DESCRIPTION	BY	0	07/09/2012	ORIGINAL RELEASE	F.N.	1	10/08/2012	2ND SUBMITTAL		2	12/17/2012	3RD SUBMITTAL	
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1	10/08/2012	2ND SUBMITTAL																		
2	12/17/2012	3RD SUBMITTAL																		
 14-STILES AND TOP RAIL FOR RP2	 19D - INSWING SILL ALUMINUM TUBE		PROJECT NAME: PORTILLO SERIES SWING DOORS																	
 15-BOTTOM RAIL FOR RP2	 19E - INSWING SILL WOOD SADDLE W/ WEEP HOLES	 19F - INSWING SILL WOOD SADDLE W/O WEEP HOLES		Lag Design of Florida 3850 Byron Drive, #1 Riviera Beach, FL 33404 PHONE: 561.841.8590 FAX: 561.841.9440																
SCOTT WOLTERS FL PE# 62354 WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 PH/FAX: (561) 225-1982 STATE OF FLORIDA JUL 06 2020 PROFESSIONAL ENGINEER				DRAWING # 002 SCALE: NTS SHEET 17 of 17																