

SIMPSON DOOR COMPANY

GLAZED & OPAQUE I.S. AND O.S. EXTERIOR WOOD DOORS

INSTALLATION ANCHORAGE DETAILS

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED TO COMPLY WITH THE 9th EDITION OF THE FLORIDA BUILDING CODE - BUILDING AND RESIDENTIAL VOLUMES EXCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ) AT THE DESIGN PRESSURES STATED HEREIN.

2. THE PRODUCT DETAILS CONTAINED HEREIN ARE BASED UPON SIGNED AND SEALED TEST REPORT(S) NO. CCLI-10-115 AND ASSOCIATED LABORATORY DRAWINGS.

3. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE / MASONRY AND 2X FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE STRUCTURE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.

4. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.

5. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, SITE SPECIFIC DOCUMENTS SHALL BE PREPARED FOR USE WITH THIS DOCUMENT.

6. THIS PRODUCT IS REQUIRED TO USE AN IMPACT PROTECTIVE SYSTEM THAT COMPLIES WITH THE 9th EDITION OF THE FLORIDA BUILDING CODE - BUILDING AND RESIDENTIAL VOLUMES IN THE WIND BORNE DEBRIS REGION.

7. MATERIALS AND COMPONENTS:

7.1. DOOR FRAME: PINE

7.2. PANEL CORE MATERIAL: WESTERN HEMLOCK OR DOUGLAS FIR

7.3. PANEL FACE VENEER: VARIABLE

7.4. HINGES: 4 X 4 BUTT

7.5. LATCH & DEADBOLT: KWIKSET SERIES 740 LOCKSET W/KWIKSET SERIES 980 DEADBOLT.

7.6. LATCH & DEADBOLT: SCHLAGE F SERIES HANDLE SET W/SCHLAGE B60 DEADBOLT.

7.7. MULIT-POINT LOCKING HARDWARE: W & F TRILEMIUM 3000 SERIES.

7.8. SURFACE BOLTS: IVES #253B BRASS.

7.9. ASTRAGAL: ENDURA ULTIMATE ALUMINUM ASTRAGAL.

7.10. THRESHOLD: ENDURA PRODUCTS ALUMINUM INSWING ADJUSTABLE #ZAI5625.

7.11. THRESHOLD: YOUNG MFG. OAK INSWING.

7.12. THRESHOLD: ENDURA PRODUCTS OUTSWING #ZFOB5625

7.13. THRESHOLD: ALUMINUM INSWING ADA SILL

8. APPROVED CORNER CONSTRUCTION

8.1. WOOD DOWEL SERIES

8.2. MORTISE AND TENON SERIES

9. GLASS MEETS THE REQUIREMENTS OF ASTM E1300-24. SEE SHEET 7 FOR GLAZING DETAIL. QUALIFIED GLAZING INCLUDES:

9.1. 1/8" TEMPERED GLASS

9.2. 3/4" O.V. INSULATING GLASS CONSISTING OF 1/8" TEMPERED GLASS x 1/2" AIR SPACE x 1/8" TEMPERED GLASS

10. DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING (AS APPLICABLE):

10.1. X: OPERABLE PANEL

10.2. O: FIXED PANEL
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| 1 | GENERAL NOTES,INSTALLATION NOTES & D.P. CHART |
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| 6 | HORIZONTAL SECTIONS |
| 7 | BILL OF MATERIALS AND GLAZING |
| 8 | TYPICAL APPROVED PANEL CONFIGURATIONS |
- INSTALLATION NOTES:
1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.

2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION. IN ADDITION TO THE INSTALLATION ANCHORS SHOWN, TWO (2) INSTALLATION ANCHOR IS REQUIRED IN EACH HINGE. LOCATE HINGE ANCHORS IN THE TOP HOLE OF EACH HINGE LEAF INTO THE HINGE JAMB. ANCHORS ARE TO MATCH TYPE AND EMBEDMENT OF THOSE SHOWN HEREIN FOR RESPECTIVE SUBSTRATE.

3. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM SIZE IS 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.

4. FOR INSTALLATION INTO WOOD FRAMING, USE #10 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT.

5. FOR INSTALLATION THROUGH 1X BUCK TO CONCRETE / MASONRY, OR DIRECTLY INTO CONCRETE / MASONRY, USE 3/16 INCH ITW ADVANCED THREADFORM TECHNOLOGY TAPCONS OR EQUAL OF SUFFICIENT LENGTH TO ACHIEVE 1 INCH MINIMUM EMBEDMENT FOR CMU BLOCK AND 1 1/2 INCH MINIMUM EMBEDMENT FOR CONCRETE.

6. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES (INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER AND SIDING).

7. FOR CONCRETE BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.

8. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:

A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.42.

B. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.

C. MASONRY - STRENGTH CONFORMANCE TO ASTM C-90.

9. ALL INSTALLATION FASTENERS TO BE CORROSION RESISTANT AND/OR HAVE A CORROSION RESISTANT COATING.

9.1 WHEN EXPOSED TO SALTWATER ENVIRONMENTS WITHIN 3,000 FEET OF A SALTWATER COASTLINE MEET THE REQUIREMENTS OF SECTION 1711, 9TH EDITION (2026) FBC AND SECTION R332, 9TH EDITION (2026) FRC WHEN APPLICABLE.

9.2 DISSIMILAR METALS OR MATERIALS IN CONTACT WITH PRESSURE TREATED WOOD MUST BE PROTECTED TO PREVENT REACTION.

PERFORMANCE RATINGS (INSWING CONFIGURATION)										
FRAME SIZE	CONFIG.	LIMITED WATER RESISTANCE RATING (PSF)	DESIGN LOADS (PSF)			CORNEER JOINERY	IMPACT RATING			
			W/O SURFACE BOLT	W/ SURFACE BOLT	MULTI-POINT HARDWARE					
74-3/8" x 98"	XX	NOT TESTED (SEE NOTE 1 & 2)	+/-35	+/-50	NA	DOWELS	NONE			
			+/-35	+/-50	NA	DOWELS				
			+/-35	+/-50	NA	MORTISE				
			NA	NA	+/-40	MORTISE				
37-1/2" x 98"	X	NOT TESTED (SEE NOTE 1 & 2)	+/-35	+/-50	NA	DOWELS				
			+/-35	+/-50	NA	DOWELS				
			+/-35	+/-50	NA	MORTISE				
			NA	NA	+/-40	MORTISE				
WATER PENETRATION RESISTANCE OVERHANG REQUIREMENTS:										
1. THIS PRODUCT HAS NOT BEEN TESTED FOR LIMITED WATER PENETRATION. IT SHALL ONLY BE USED IN AREAS WHERE WATER PENETRATION REQUIREMENTS DO NOT EXIST OR WHERE AN OVERHANG MEETING THE REQUIREMENTS OF SECTION 1709.5.2 OF THE 9TH EDITION (2026) FLORIDA BUILDING CODE OR SECTION R609.5 OF THE 9TH EDITION (2026) FLORIDA RESIDENTIAL CODE IS USED. 2. SIDE-HINGED DOORS ARE ONLY REQUIRED TO MEET THE OVERHANG REQUIREMENTS OF SECTION 1709.5.2 OF THE 9TH EDITION (2026) FLORIDA BUILDING CODE.										

PROJECT NO. ACE-2025-134

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05/11/12

TJH

REV

DESCRIPTION

DATE

BY

SIMPSON DOOR COMPANY

400 W. SIMPSON AVENUE

McCLEARY, WASHINGTON 98557

TITLE:

GLAZED & OPAQUE WOOD DOORS
GENERAL AND INSTALLATION NOTES

DRAWN BY: JM

DATE: 01/12/11

SCALE: N.T.S.

DRAWING NO: SIMP1060

REV: C

SHEET: 1 OF 8

PREPARED BY: AMORUSO CONSULTING ENG., LLC

FBPE REGISTRATION NO. 38327

226 N NOVA RD, NO. 142

ORMOND BEACH, FL 32174

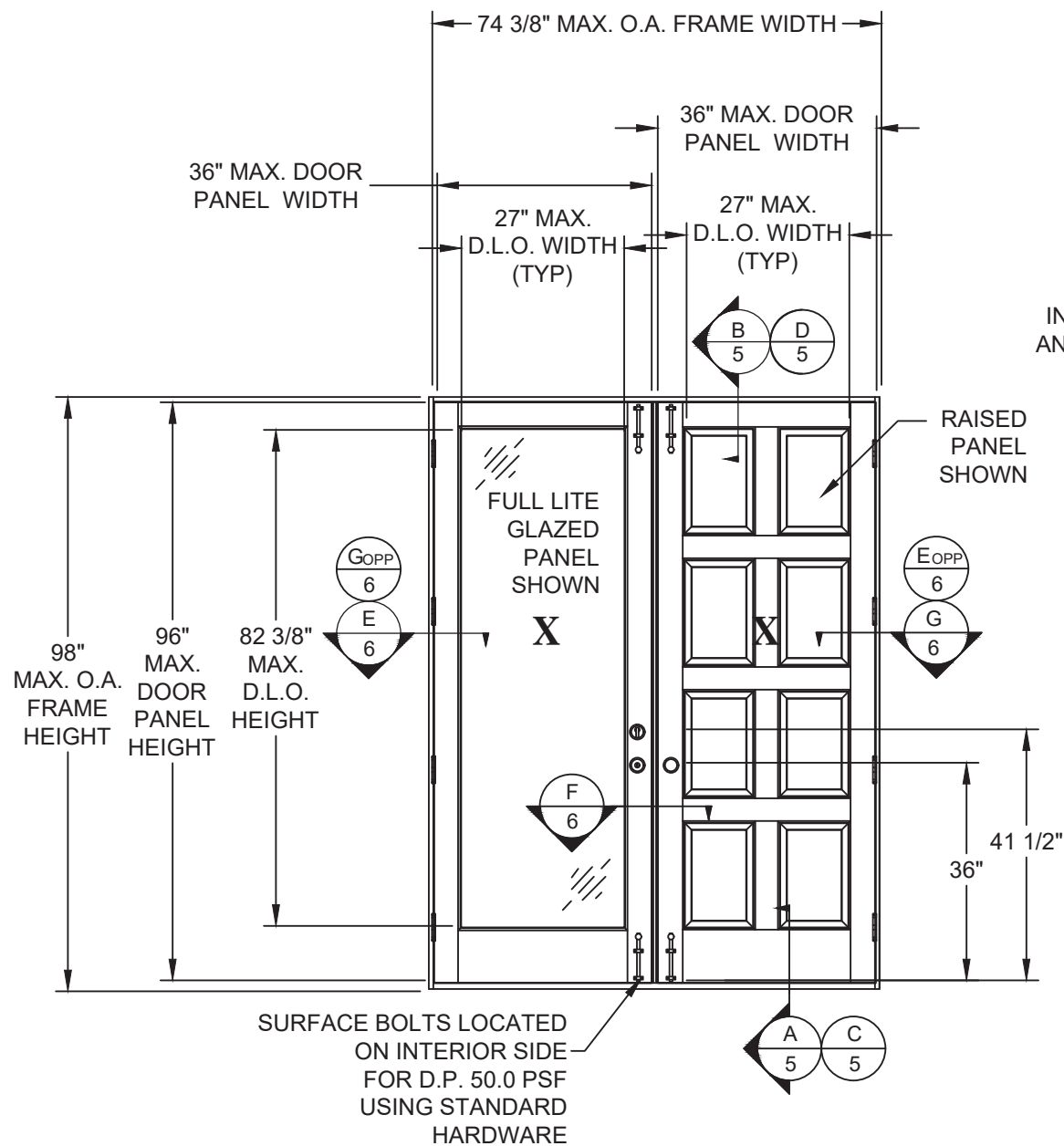
RIAENGPE@GMAIL.COM

Robert J. Amoruso, P.E.

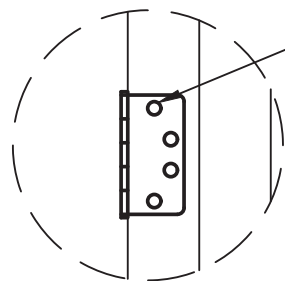
Florida P.E. No. 49752



SIGNED/SEALED: 8/14/26

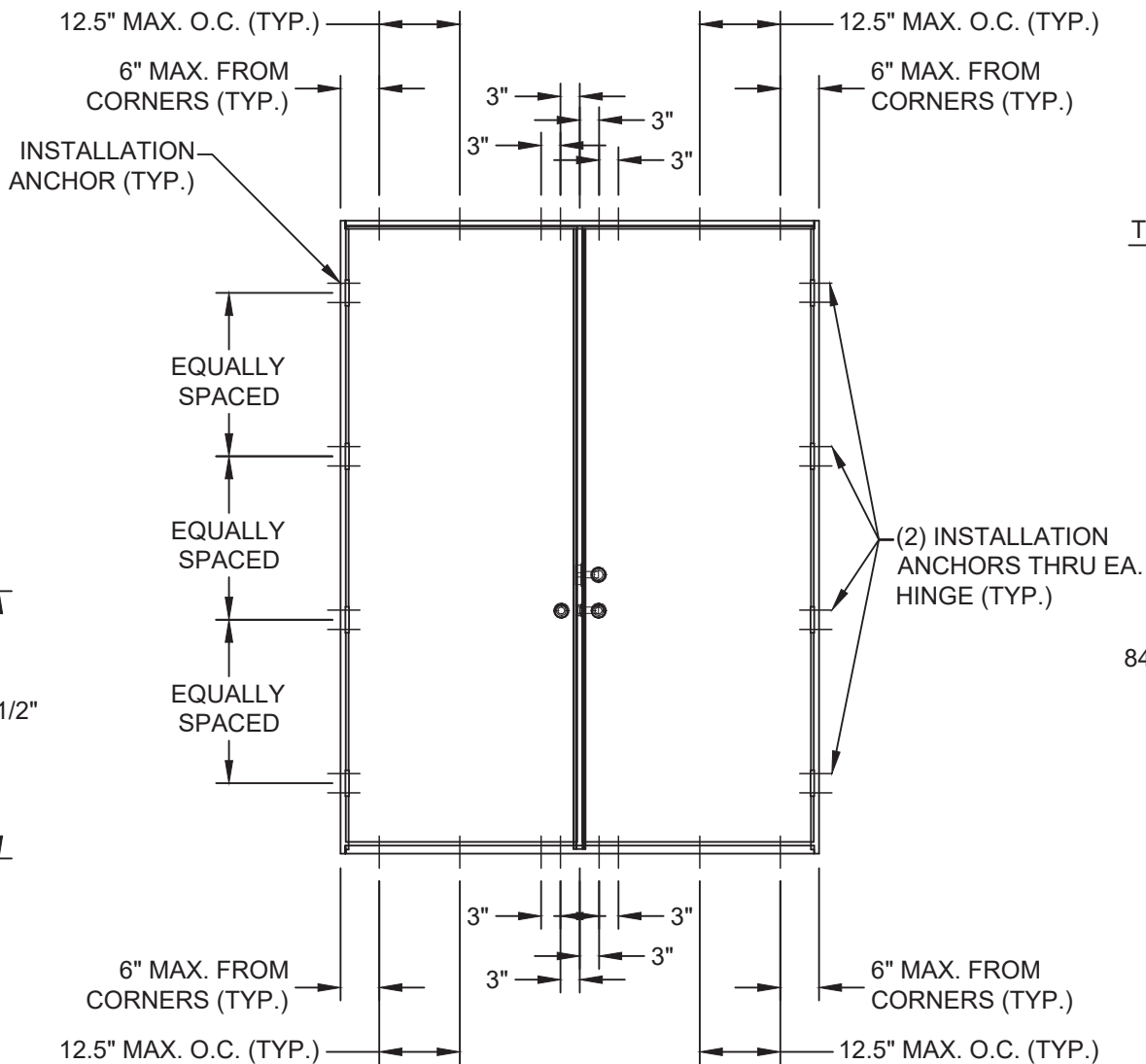


ELEVATION
INTERIOR VIEW
(SHOWN W/ OPTIONAL
SURFACE BOLTS)



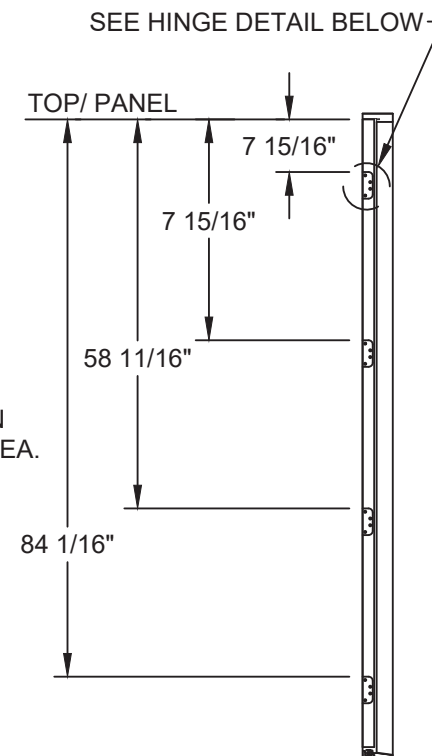
HINGE DETAIL

INSTALLATION ANCHOR
(SEE INSTALLATION NOTE 2, SHEET 1)



ANCHOR LAYOUT
35 D.P. W/O SURFACE BOLTS

INTERIOR VIEW
(SEE INSTALLATION NOTE 2)



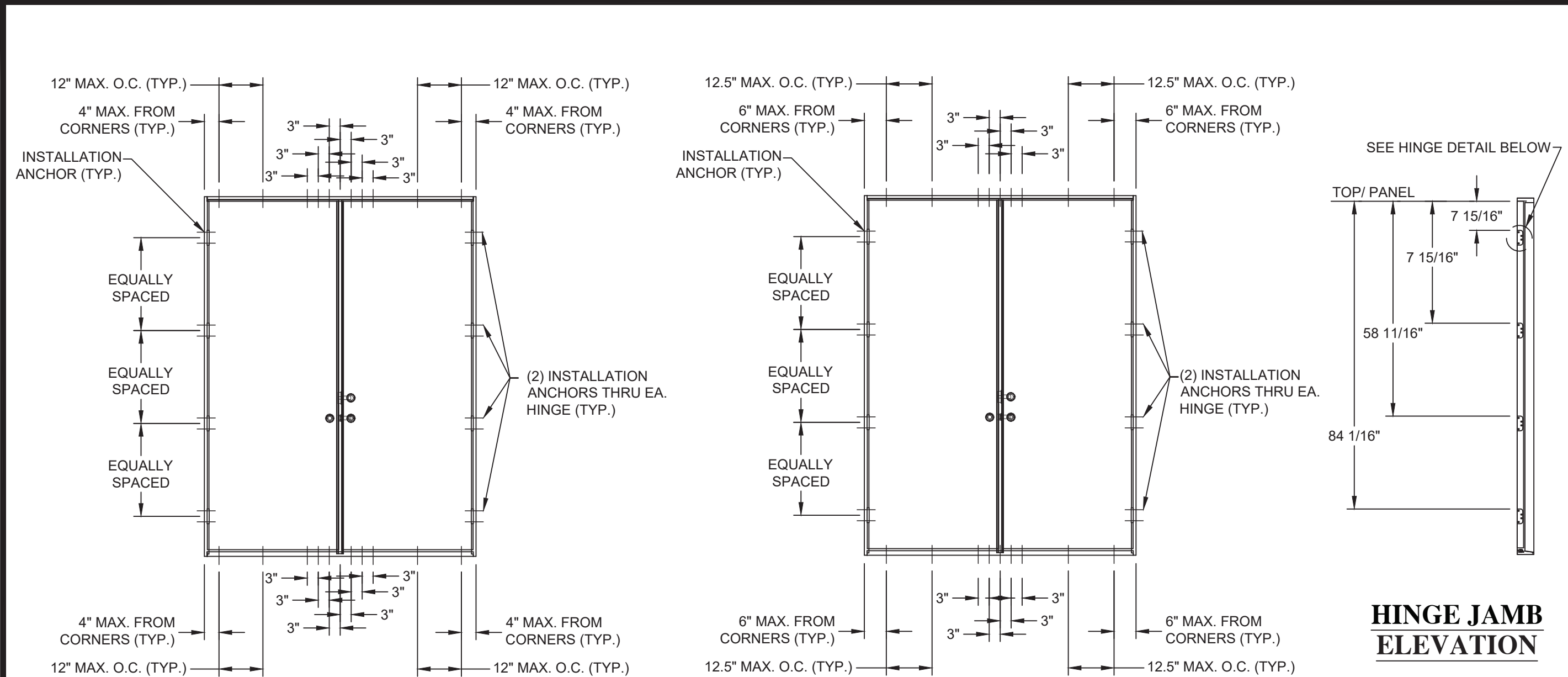
**HINGE JAMB
ELEVATION**

PROJECT NO. ACE-2025-134			
C	8/14/26	RJA	BY
B	04/14/15	JBH	DATE
A	05/11/12	TJH	DESCRIPTION
REV			

SIMPSON DOOR COMPANY 400 W. SIMPSON AVENUE McCLEARY, WASHINGTON 98557			
TITLE: GLAZED & OPAQUE WOOD DOORS ELEVATION & ANCHOR LAYOUT			
PREPARED BY: AMORUSO CONSULTING ENG., LLC FBPE REGISTRATION NO. 38327 226 N NOVA RD, NO. 142 ORMOND BEACH, FL 32174 RJAENGPE@GMAIL.COM	DRAWN BY:	JM	DATE:
	SCALE:	N. T. S.	DRAWING NO:
	REV:	C	SHEET:
			01/12/11
			SIMP1060
			2 OF 8

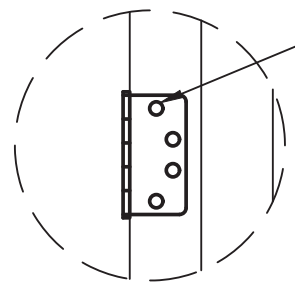
Robert J. Amoruso, P.E.
Florida P.E. No. 49752



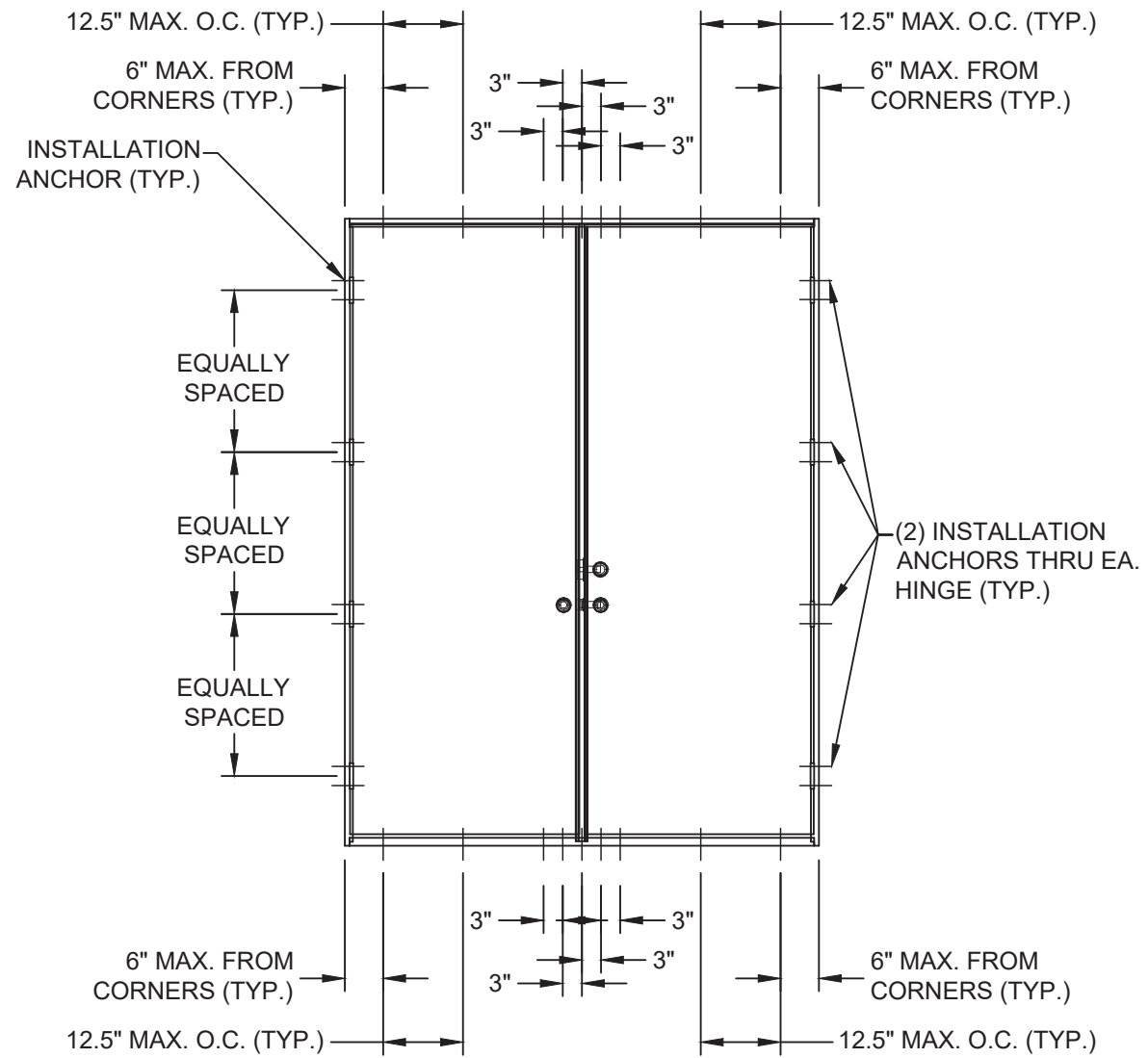


ANCHOR LAYOUT
50 PSF W/SURFACE BOLTS

INTERIOR VIEW
(SEE INSTALLATION NOTE 2)

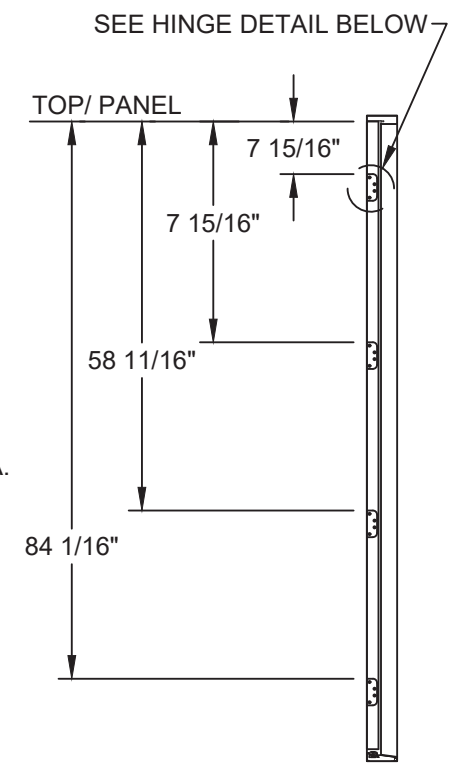


HINGE DETAIL



ANCHOR LAYOUT
40 PSF W/MULTIPOINT

INTERIOR VIEW
(SEE INSTALLATION NOTE 2)



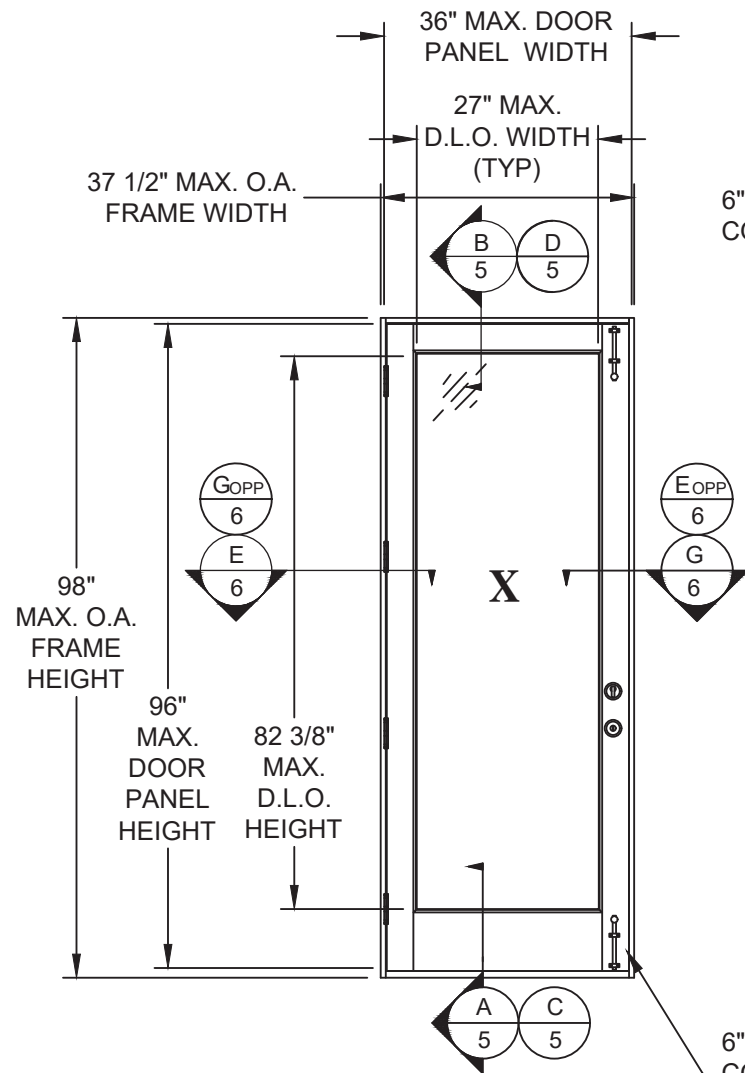
HINGE JAMB
ELEVATION

PROJECT NO. ACE-2025-134		RJA		JBH		TJH		BY	
8/14/26		04/14/15		05/11/12		DATE			
UPDATE TO THE 9TH EDITION (2026) FBC		UPDATE TO 5TH EDITION (2014) FBC		UPDATE TO 2010 FBC		DESCRIPTION			
C	B	A	REV						

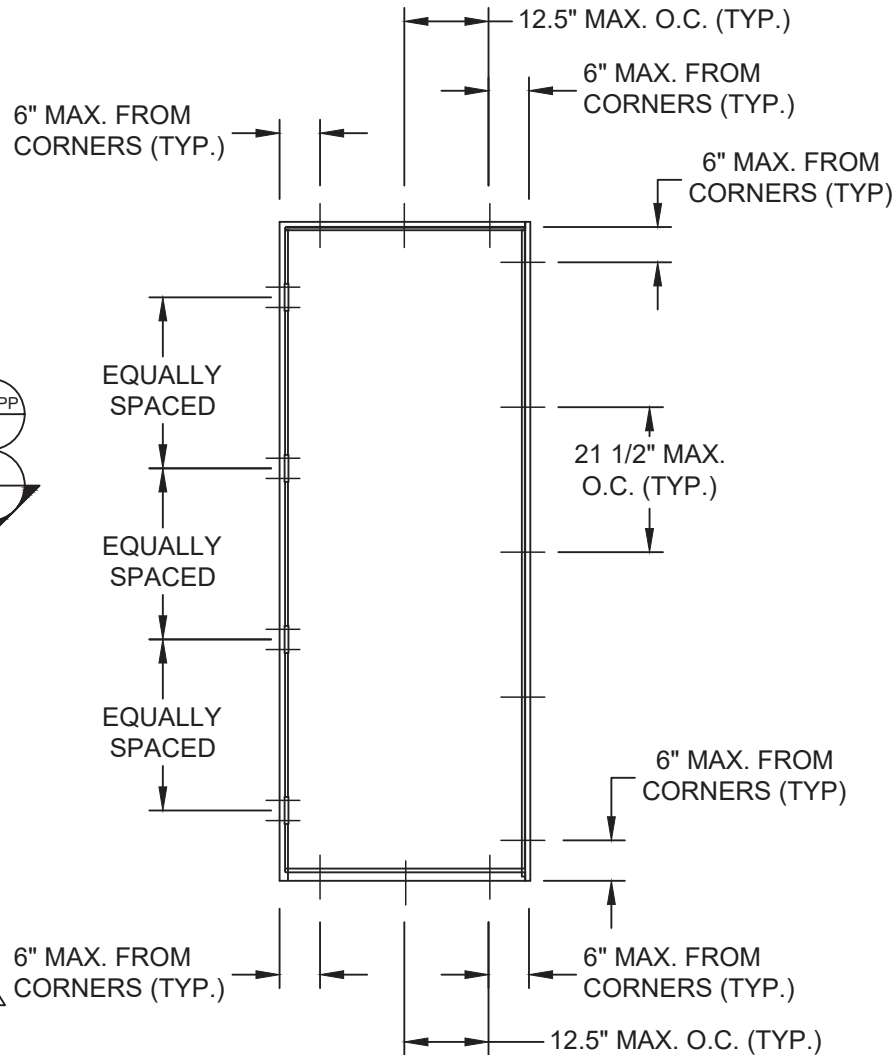
SIMPSON DOOR COMPANY 400 W. SIMPSON AVENUE McCLEARY, WASHINGTON 98557		DATE: 01/12/11		DRAWING NO: SIMP1060		SHEET: 3 OF 8	
TITLE: GLAZED. & OPAQUE WOOD DOORS ELEVATION & ANCHOR LAYOUT		DRAWN BY: JM		SCALE: N.T.S.		REV: C	
PREPARED BY: AMORUSO CONSULTING ENG., LLC FBPE REGISTRATION NO. 38327 226 N NOVA RD, NO. 142 ORMOND BEACH, FL 32174 RIAENGPE@GMAIL.COM							

Robert J. Amoruso, P.E.
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SIGNED/SEALED: 8/14/26

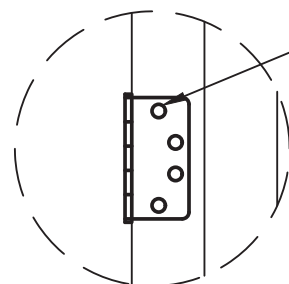


SURFACE BOLTS LOCATED ON INTERIOR SIDE FOR D.P. 50.0 PSF USING STANDARD HARDWARE

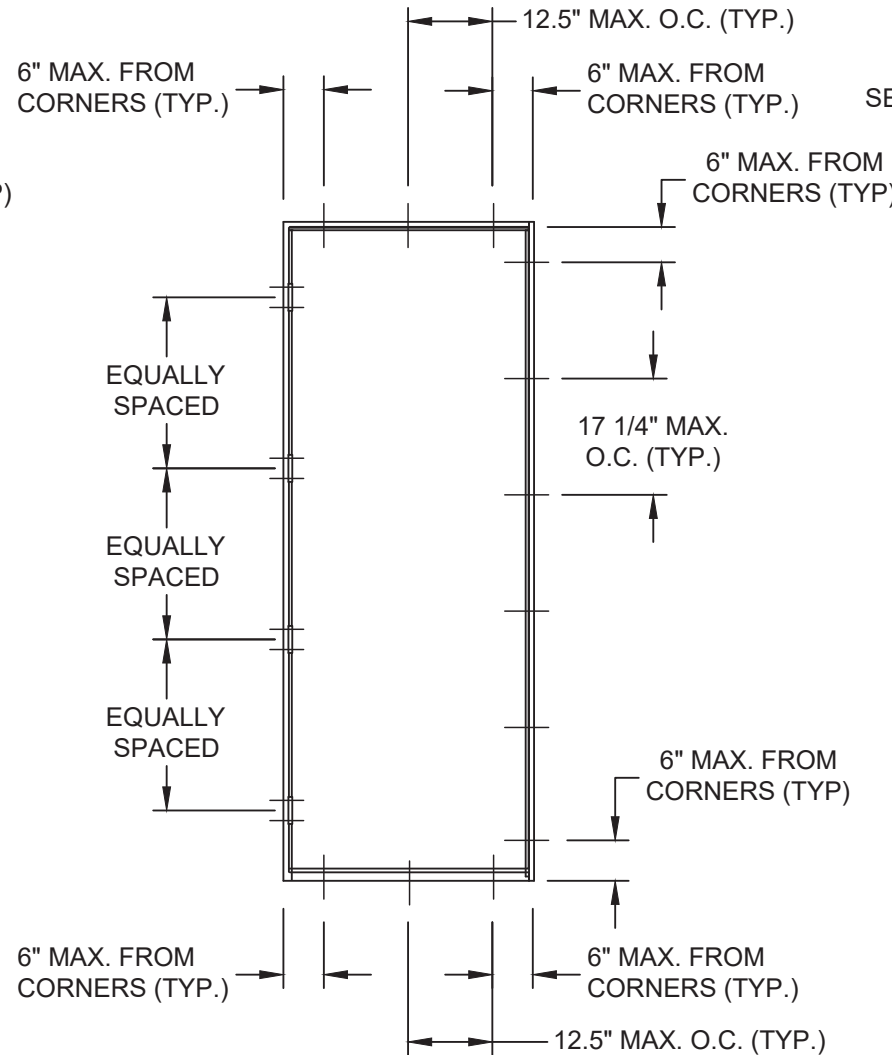


ANCHOR LAYOUT 35 & 40 D.P. W/O SURFACE BOLTS OR WITH MULTIPOINT

INTERIOR VIEW
(SEE INSTALLATION NOTE 2)



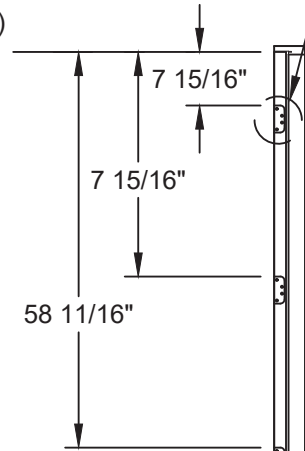
HINGE DETAIL



ANCHOR LAYOUT 50 PSF W SURFACE BOLTS

INTERIOR VIEW
(SEE INSTALLATION NOTE 2)

SEE HINGE DETAIL BELOW TOP/ PANEL



HINGE JAMB ELEVATION

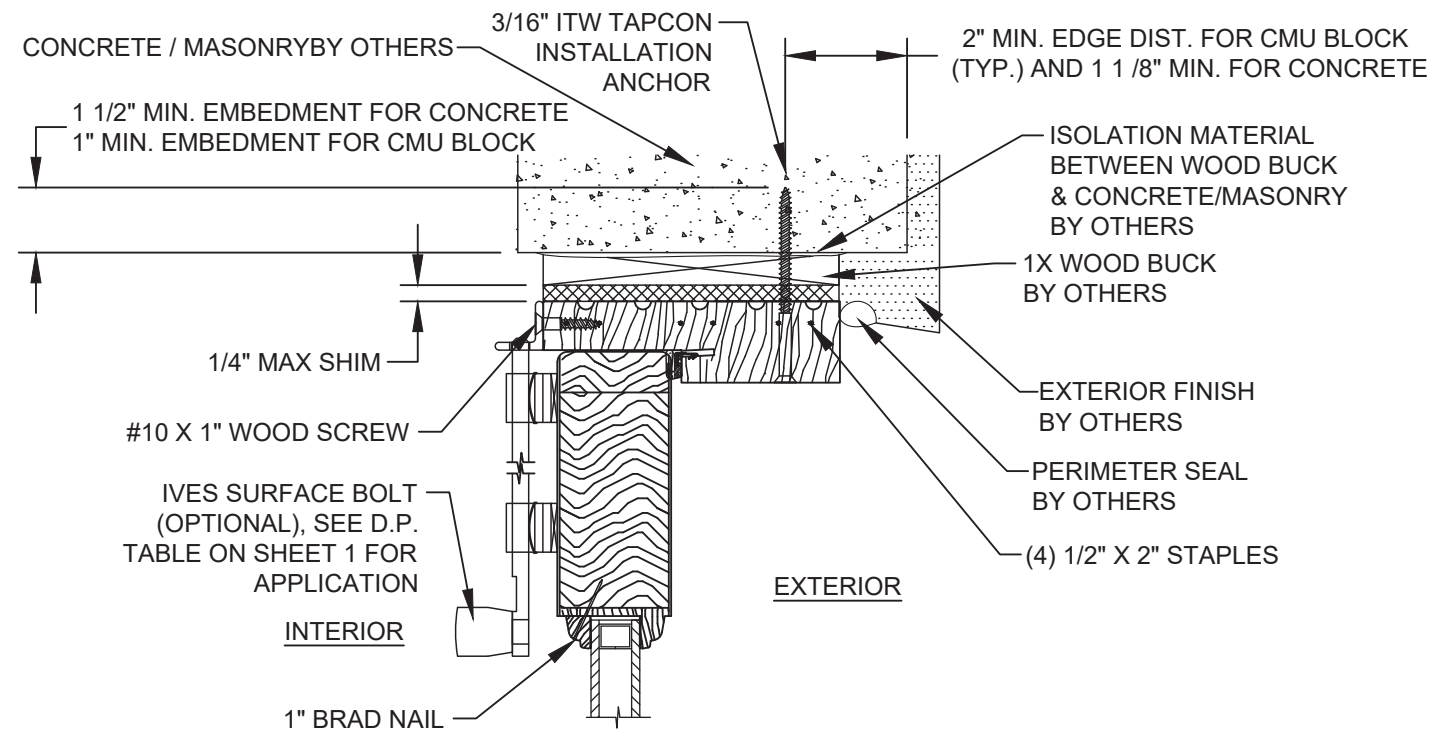
PROJECT NO. ACE-2025-134		RJA	8/14/26
UPDATE TO THE 9TH EDITION (2026) FBC	JBH	04/14/15	TJH
UPDATE TO 5TH EDITION (2014) FBC	JBH	05/11/12	BY
UPDATE TO 2010 FBC	DATE	DESCRIPTION	REV

SIMPSON DOOR COMPANY 400 W. SIMPSON AVENUE McCLEARY, WASHINGTON 98557		DATE:	01/12/11
GLAZED & OPAQUE WOOD DOORS ELEVATION & ANCHOR LAYOUT		DRAWING NO:	SIMP1060
PREPARED BY: AMORUSO CONSULTING ENG., LLC FBPE REGISTRATION NO. 38327 226 N NOVA RD, NO. 142 ORMOND BEACH, FL 32174 RJAMGP@GMAIL.COM		SCALE:	N.T.S.
		REV:	C
		SHEET:	4 OF 8

Robert J. Amoruso, P.E.
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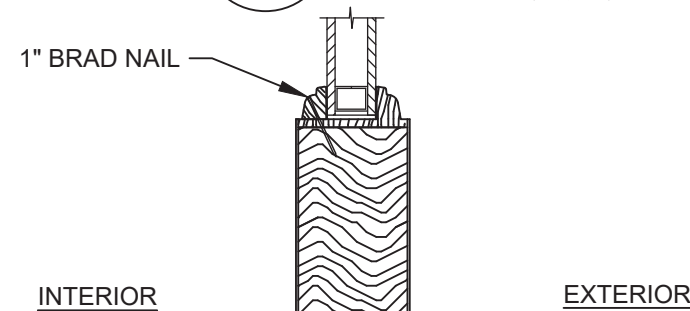
SIGNED/SEALED: 8/14/26



B

VERTICAL SECTION

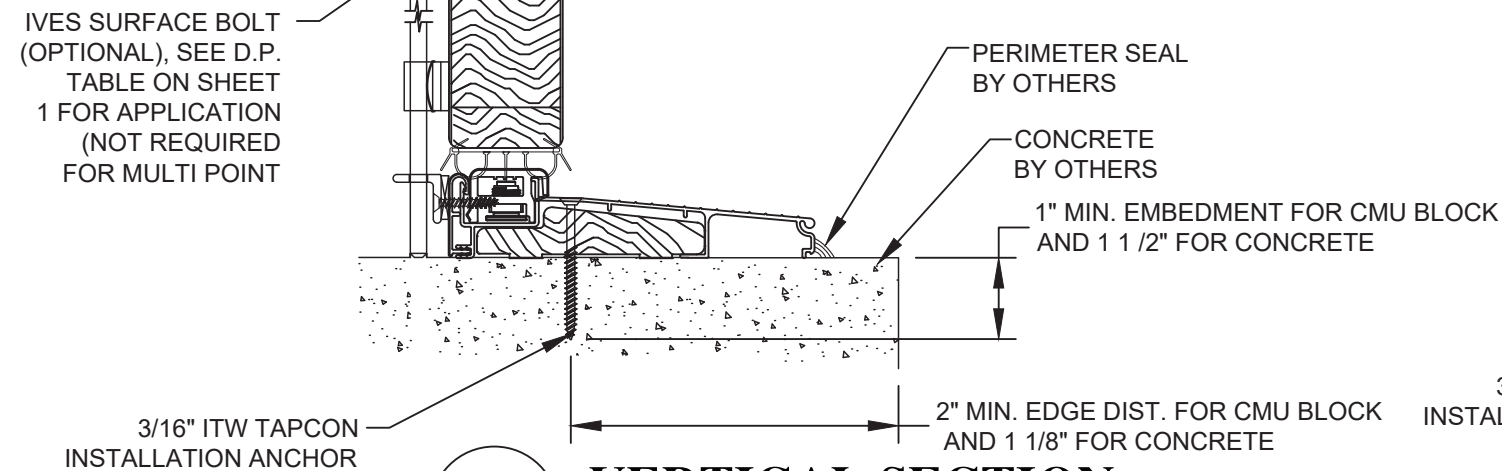
CONCRETE / MASONRY SUBSTRATE
IN-SWING SHOWN



A

VERTICAL SECTION

CONCRETE SUBSTRATE
IN-SWING SHOWN

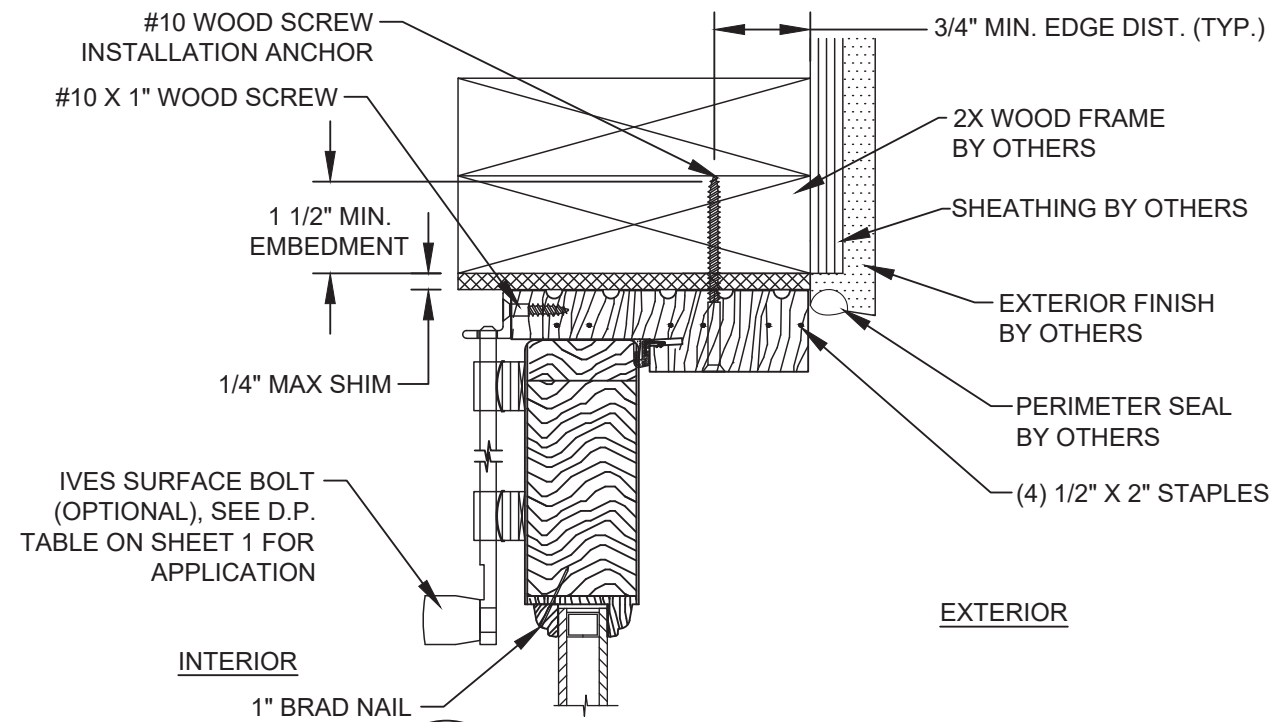


C

VERTICAL SECTION

OUT-SWING SILL

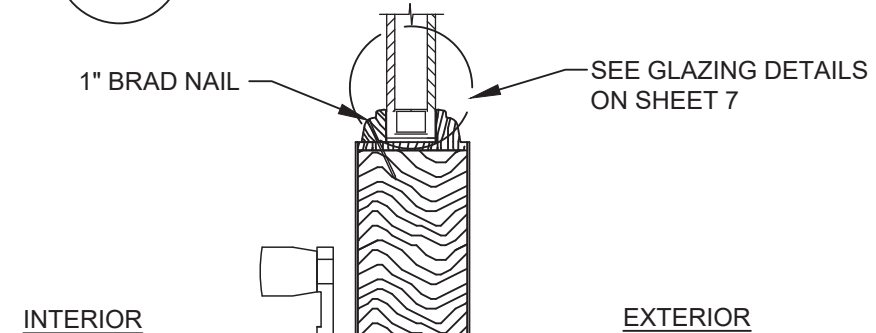
CONCRETE SUBSTRATE



D

VERTICAL SECTION

WOOD SUBSTRATE IN-SWING SHOWN



PROJECT NO. ACE-2025-134

RJA	8/14/26	JBH	TJH	BY
UPDATE TO THE 9TH EDITION (2026) FBC	UPDATE TO 5TH EDITION (2014) FBC	UPDATE TO 2010 FBC	DESCRIPTION	DATE
C	B	A	REV	

SIMPSON DOOR COMPANY

400 W. SIMPSON AVENUE

MCCLEARY, WASHINGTON 98557

GLAZED & OPAQUE WOOD DOORS

VERTICAL SECTIONS & GLAZING DETAIL

DATE: 01/12/11

DRAWING NO: SIMP1060

SHEET: 5 OF 8

PREPARED BY:

AMORUSO CONSULTING ENG., LLC

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226 N NOVA RD, NO. 142

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RJAENGPE@GMAIL.COM

SCALE:

N.T.S.

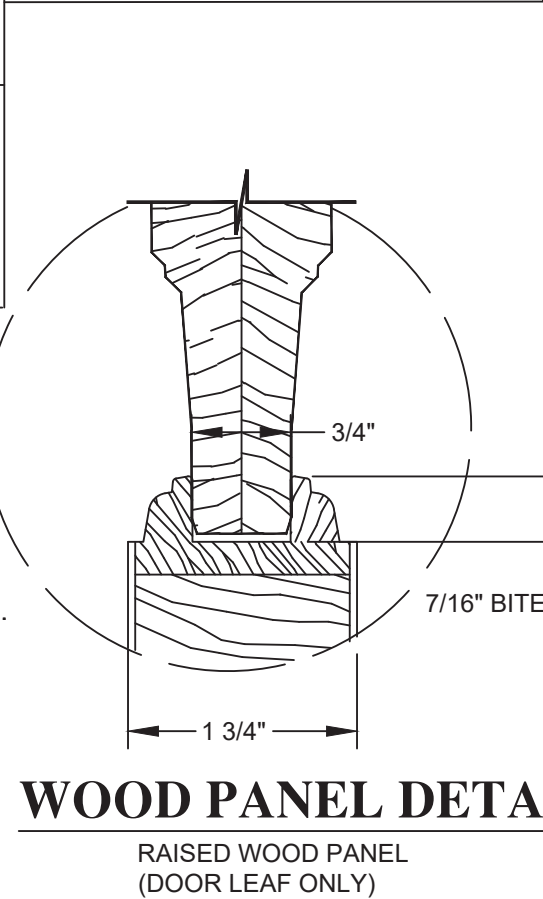
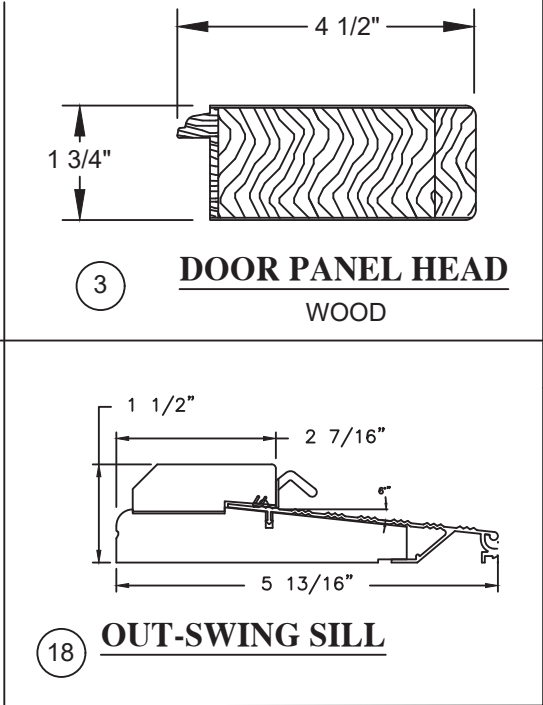
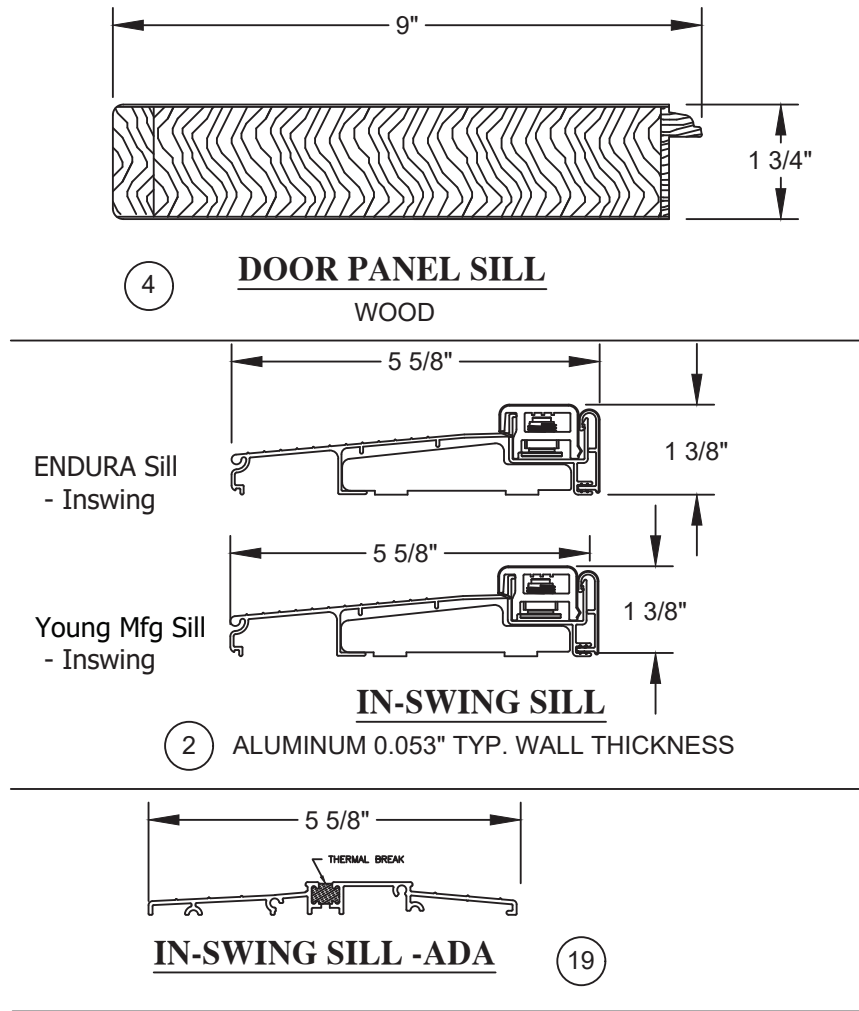
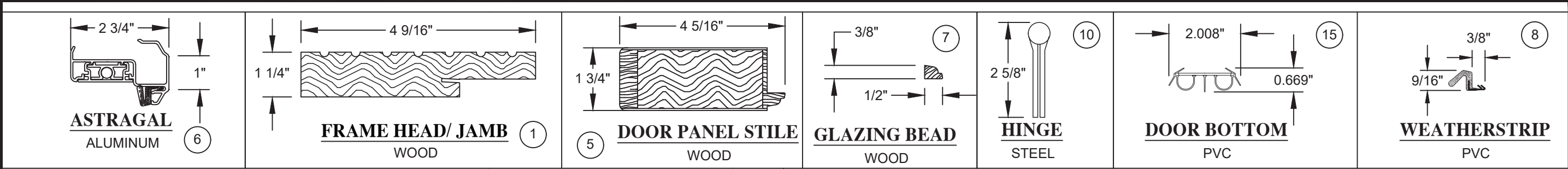
REV:

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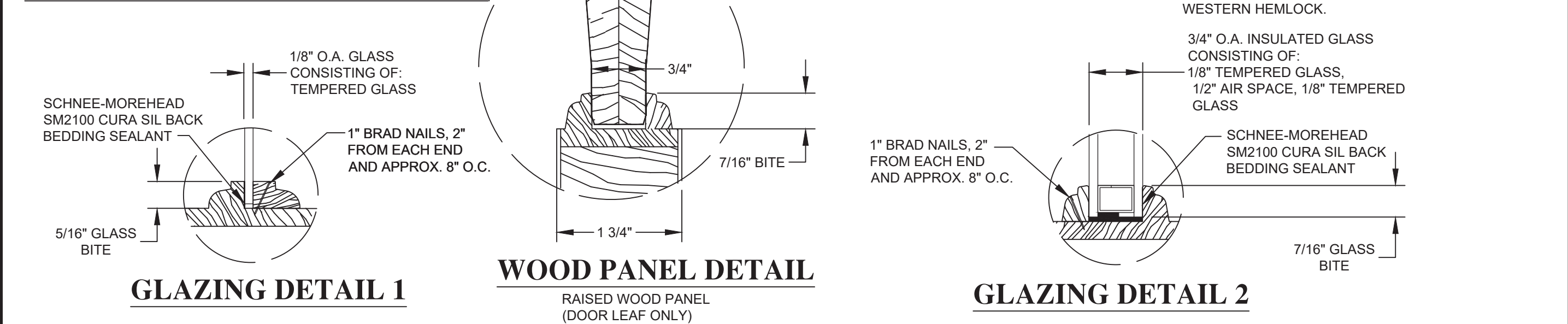


SIGNED/SEALED: 8/14/26



ITEM	DESCRIPTION	PART #	MATERIAL	MANUFACTURER
1	FRAME HEAD & JAMB		PINE	SIMPSON DOOR
2	FRAME SILL	ZA15625	6063-T6 ALUMINUM	ENDURA / YOUNG MFG.
3	DOOR PANEL HEAD		WESTERN HEMLOCK *	SIMPSON DOOR
4	DOOR PANEL SILL		WESTERN HEMLOCK *	SIMPSON DOOR
5	DOOR PANEL STILE		WESTERN HEMLOCK *	SIMPSON DOOR
6	ASTRAGAL		ALUMINUM	ENDURA ULTIMATE
7	GLAZING BEAD		WESTERN HEMLOCK *	SIMPSON DOOR
8	WEATHERSTRIPPING	QEBD 650	PVC	SCHLEGAL
9	-----			
10	4" BUTT HINGES		STEEL	
11	STANDARD LOCKSET		STEEL	KWIKSET/SCHLAGE
12	MULTIPOINT LOCKSET		STEEL	W& F
13	SURFACE BOLTS	253B 8"	BRASS	IVES
14	SURFACE BOLT STRIKE PLATE		STEEL	IVES
15	BOTTOM RAIL SWEEP		PVC	ENDURA
16	#9 x 2 1/4" WOOD SCREW		STEEL	
17	3/4" O.A. INSULATED GLASS CONSISTING OF: 1/8" TEMPERED GLASS, 1/2" AIR SPACE, 1/8" TEMPERED GLASS			
18	FRAME SILL O.S. BUMPER		WOOD	SIMPSON
19	FRAME SILL I.S. ADA		WOOD	ENDURA

* DOUGLAS FIR MAY BE USED IN LIEU OF WESTERN HEMLOCK.



PROJECT NO. ACE-2025-134

UPDATE TO THE 9TH EDITION (2026) FBC

8/14/26

RJA

UPDATE TO 5TH EDITION (2014) FBC

04/14/15

JBH

UPDATE TO 2010 FBC

05/11/12

TJH

DATE

BY

SIMPSON DOOR COMPANY

400 W. SIMPSON AVENUE

McCLEARY, WASHINGTON 98557

TITLE:

GLAZED & OPAQUE WOOD DOORS

BILL OF MATERIALS AND GLAZING DETAILS

DRAWN BY:

JM

DATE:

01/12/11

SCALE:

N.T.S.

DRAWING NO.:

SIMP1060

REV:

C

SHEET:

7 OF 8

PREPARED BY:

AMORUSO CONSULTING ENG., LLC

FBPE REGISTRATION NO. 38327

226 N NOVA RD, NO. 142

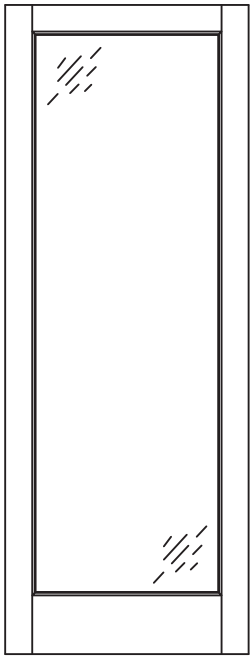
ORMOND BEACH, FL 32174

RJAENGPE@GMAIL.COM

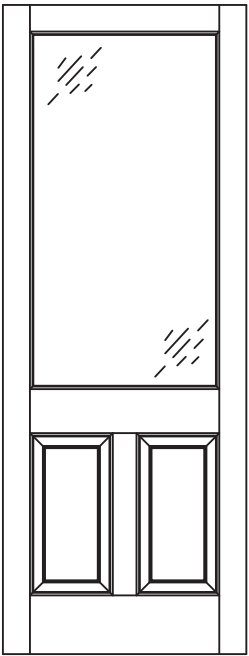
Robert J. Amoruso, P.E.

Florida P.E. No. 49752

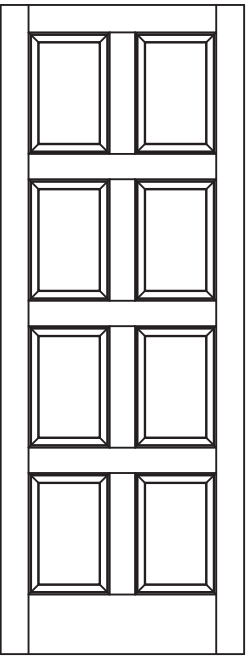
SIGNED/SEALED: 8/14/26



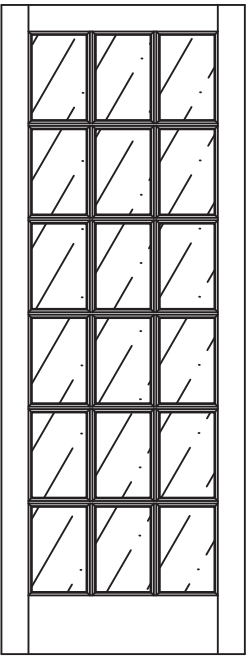
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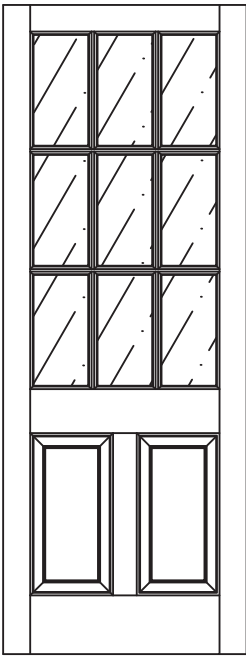
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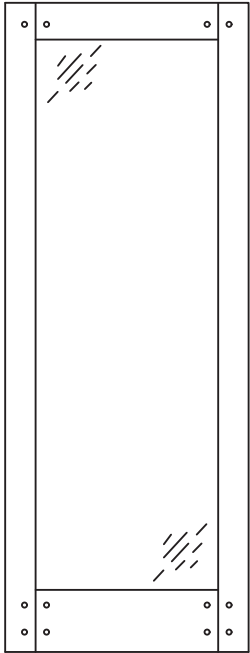


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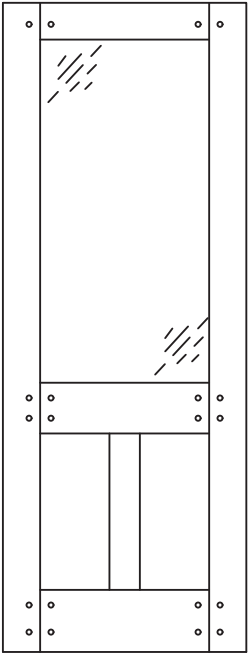


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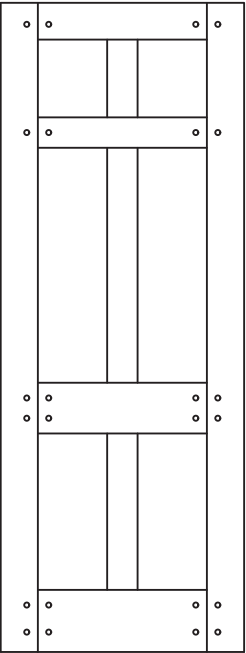
**TYPICAL APPROVED PANEL
CONFIGURATIONS**



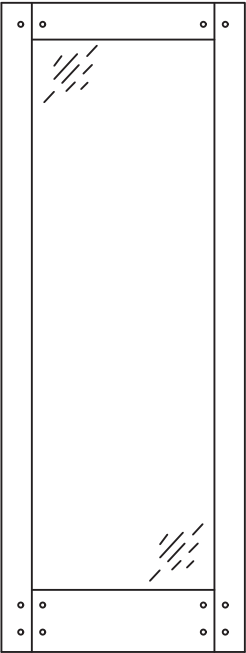
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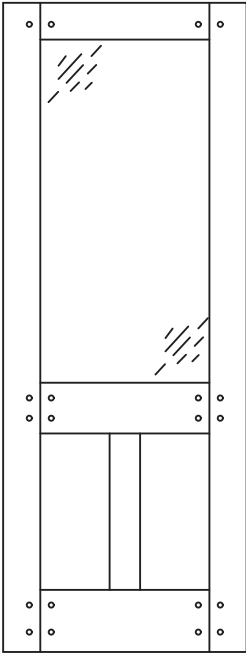
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77018
SDL only



77944
SDL only

PROJECT NO. ACE-2025-134			
C	UPDATE TO THE 9TH EDITION (2026) FBC	8/14/26	RJA
B	UPDATE TO 5TH EDITION (2014) FBC	04/14/15	JBH
A	UPDATE TO 2010 FBC	05/11/12	TJH
REV	DESCRIPTION	DATE	BY

SIMPSON DOOR COMPANY 400 W. SIMPSON AVENUE McCLEARY, WASHINGTON 98557		DRAWN BY: JM		DATE: 01/12/11	
TITLE: GLAZED. & OPAQUE WOOD DOORS TYPICAL PANEL CONFIGURATIONS		SCALE: N.T.S.		DRAWING NO: SIMP1060	
PREPARED BY: AMORUSO CONSULTING ENG., LLC FBPE REGISTRATION NO. 38327 226 N NOVA RD, NO. 142 ORMOND BEACH, FL 32174 RJAENGPE@GMAIL.COM		REV: C		SHEET: 8 OF 8	

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