

VINTAGE IRONWORKS

STEEL OUTSWING DOORS W/ & W/O SIDELITES & TRANSOMS

INSTALLATION ANCHORAGE DETAILS

GENERAL NOTES:

1. THE PRODUCT ANCHORAGE SHOWN HEREIN IS DESIGNED TO COMPLY WITH THE CURRENT EDITION FLORIDA BUILDING CODE (FBC), INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ) REQUIREMENTS AT THE DESIGN PRESSURES STATED HEREIN.
2. THE PRODUCT DETAILS CONTAINED HEREIN ARE BASED UPON SIGNED AND SEALED TEST REPORT #NCTL-210-3485-1 DATED 12-04-07 AND NCTL-2945-1 DATED 3-16-04 AND ASSOCIATED LABORATORY STAMPED DRAWINGS.
3. THE PRODUCT HAS BEEN EVALUATED FOR CONFORMANCE TO THE STANDARDS LISTED IN THE FLORIDA BUILDING CODE (FBC) AND IS IN COMPLIANCE WITH SAID STANDARDS, INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ) REQUIREMENTS.
4. 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 FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.
5. 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 ENGINEER OR ARCHITECT OF RECORD.
6. SITE CONDITIONS THAT DEVIATE FROM THE DETAILS OF THIS DRAWING REQUIRE THE FOLLOWING:

6.1 IN NON-HVHZ, FURTHER ENGINEERING ANALYSIS BY A LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT.

6.2 IN HVHZ, FURTHER ENGINEERING ANALYSIS BY A LICENSED PROFESSIONAL ENGINEER OR REGISTED ARCHITECT AND ONE TIME APPROVAL FROM THE LOCAL AUTHORITY HAVING JURISDICATION IS REQUIRED..

7. IN HVHZ AREAS, USE OF AN APPROVED IMPACT PROTECTIVE SYSTEM COMPLYING WITH THE HVHZ REQUIREMENTS OF THE FBC IS NOT REQUIRED FOR THE PRODUCT(S) HEREIN. IN NON-HVHZ AREAS WHERE WINDBORNE DEBRIS PROTECTION REQUIREMENTS EXIST USE OF AN IMPACT PROTECTIVE SYSTEM COMPLYING WITH THE FBC REQUIREMENTS FOR WINDBORNE DEBRIS REGIONS IS NOT REQUIRED FOR THE PRODUCT(S) HEREIN.
8. DOOR FRAME, PANEL AND COMPONENT MATERIALS:

8.1. SEE BILL OF MATERIALS FOR COMPONENT TYPES AND MATERIALS.

8.2. STEEL SHALL BE PROTECTED IN ACCORDANCE WITH CURRENT EDITION FBC.

8.3. LAMINATED GLASS INTERLAYER: EASTMAN CHEMICAL CO. (MA) SAFLEX HP PER CURRENT MD NOA.
9. GLASS MEETS THE REQUIREMENTS OF ASTM E1300-12AE1. SEE SHEET 7 FOR GLAZING DETAILS.
10. DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING:

X: OPERABLE PANEL

O: FIXED PANEL
11. A 1/3 INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS NOT USED IN THE DESIGN OF THE PRODUCT(S) SHOWN HEREIN.

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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.
3. AT EACH INSTALLATION ANCHOR, SHIM GAPS THAT ARE EQUAL TO OR GREATER THAN 1/16". MAXIMUM ALLOWABLE SHIM SIZE IS 1/4".
4. FOR INSTALLATION INTO WOOD FRAMING, USE #14 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 5/16 INCH ITW TAPCON XL OF SUFFICIENT LENGTH TO ACHIEVE 1 3/4 INCH MINIMUM EMBEDMENT.
6. ALTERNATE CONCRETE / MASONRY INSTALLATION ANCHORS OF EQUIVALENT PERFORMANCE CHARACTERISTICS CAN BE USED UPON APPROVAL OF THE ARCHITECT OR ENGINEER OF RECORD.
7. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES (INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING).
8. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
9. FOR HOLLOW BLOCK AND GROUT FILLED 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.
10. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS. ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER SHOWN BELOW.
11. 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 2899 PSI AND CONFORMANCE TO ACI-301.

C. MASONRY - STRENGTH CONFORMANCE TO ASTM C-90.
12. THE STRUCTURAL PERFORMANCE TEST REPORT INDICATES THAT HINGE FRAME SCREWS WERE NOT REPLACED WITH ADDITIONAL INSTALLATION ANCHORS SCREWS DURING PRODUCT TESTING. HINGE INSTALLATION, USING TESTED HINGE SCREWS, IS QUALIFIED BY SATISFACTORY TEST PERFORMANCE.

PRODUCT RATING		
DESIGN PRESSURE RATING (PSF)		IMPACT RATING
WHEN OH RATIO $\geq$ 1 (SEE BELOW)	WHEN OH RATIO $<$ 1 (SEE BELOW)	LARGE MISSILE IMPACT WIND ZONE 4 - MISSILE LEVEL D
± 80.0	+70.0/-80.0	
DESIGN PRESSURE APPLICABLE WHEN DOOR ASSEMBLY IS INSTALLED WHERE THE OVERHANG (OH) RATIO IS EQUAL TO ONE (1) OR MORE IN ACCORDANCE WITH THE CURRENT EDITION FBC AND FRC. OVERHANG RATIO IS DEFINED AS: OH RATIO = OH LENGTH/OH HEIGHT WHERE: OH LENGTH = THE HORIZONTAL MEASURE OF HOW FAR AN OVERHANG OVER A DOOR PROJECTS OUT FROM THE DOOR'S SURFACE. OH HEIGHT = THE VERTICAL MEASURE OF THE DISTANCE FROM THE DOOR'S SILL TO THE BOTTOM OF THE OVERHANG OVER A DOOR.		

PROJECT# 420-1207

UPDATE TO CURRENT EDITION FBC

D

10/19/15

RJA

DESCRIPTION

REV

DATE

BY

VINTAGE IRONWORKS

987 JOSIANE COURT, SUITE 1064

ALTAMONTE SPRINGS, FLORIDA 32701

TITLE: STEEL OUTSWING DOORS W/ & W/O SIDELITES & TRANSOM

GENERAL NOTES, INSTALLATION NOTES & D.P. CHART

DRAWN BY: CB

DATE: 07/31/08

SCALE: N.T.S.

SHEET: 1 OF 14

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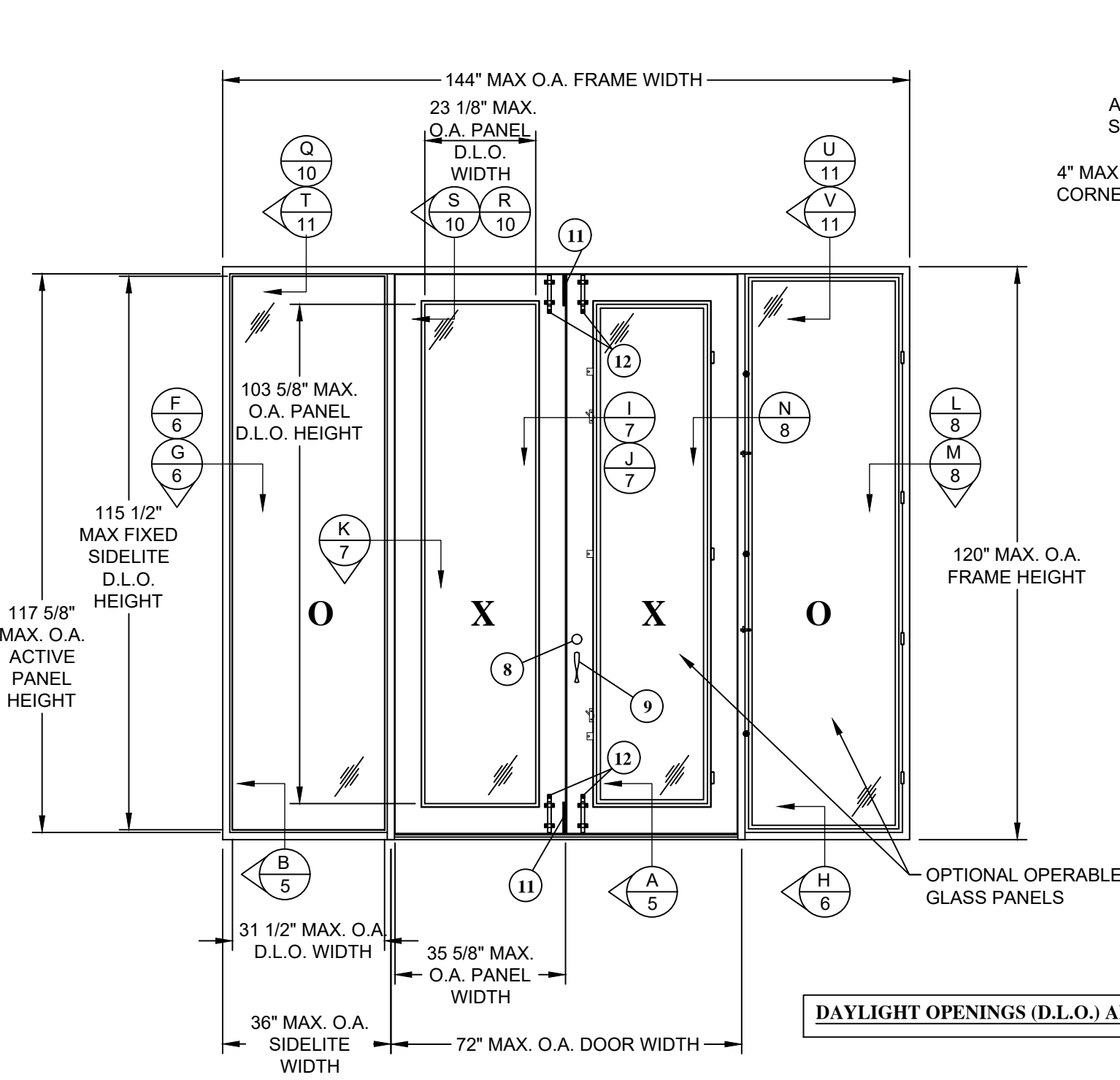
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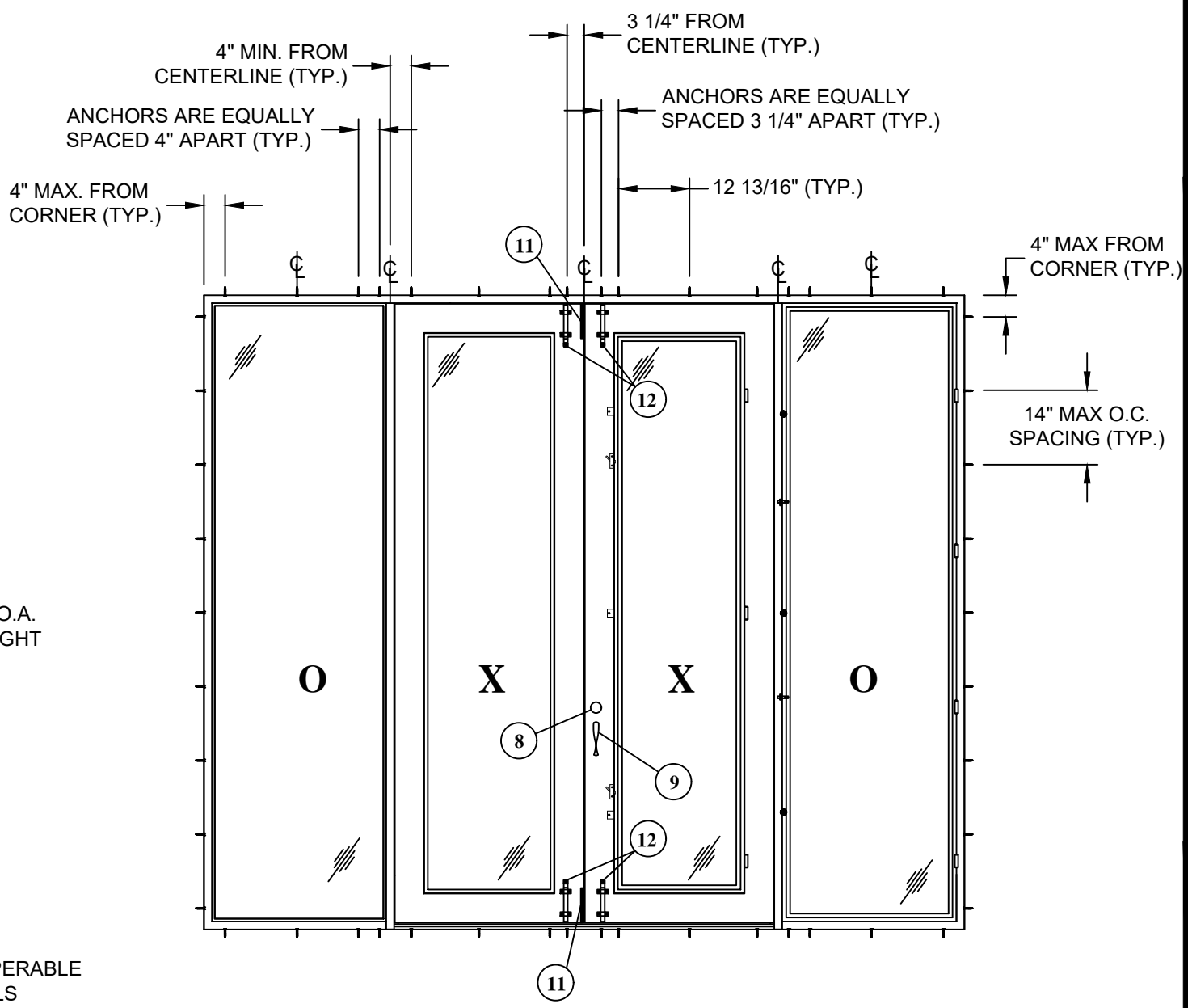
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ELEVATION
INTERIOR VIEW



ANCHOR LAYOUT
INTERIOR VIEW

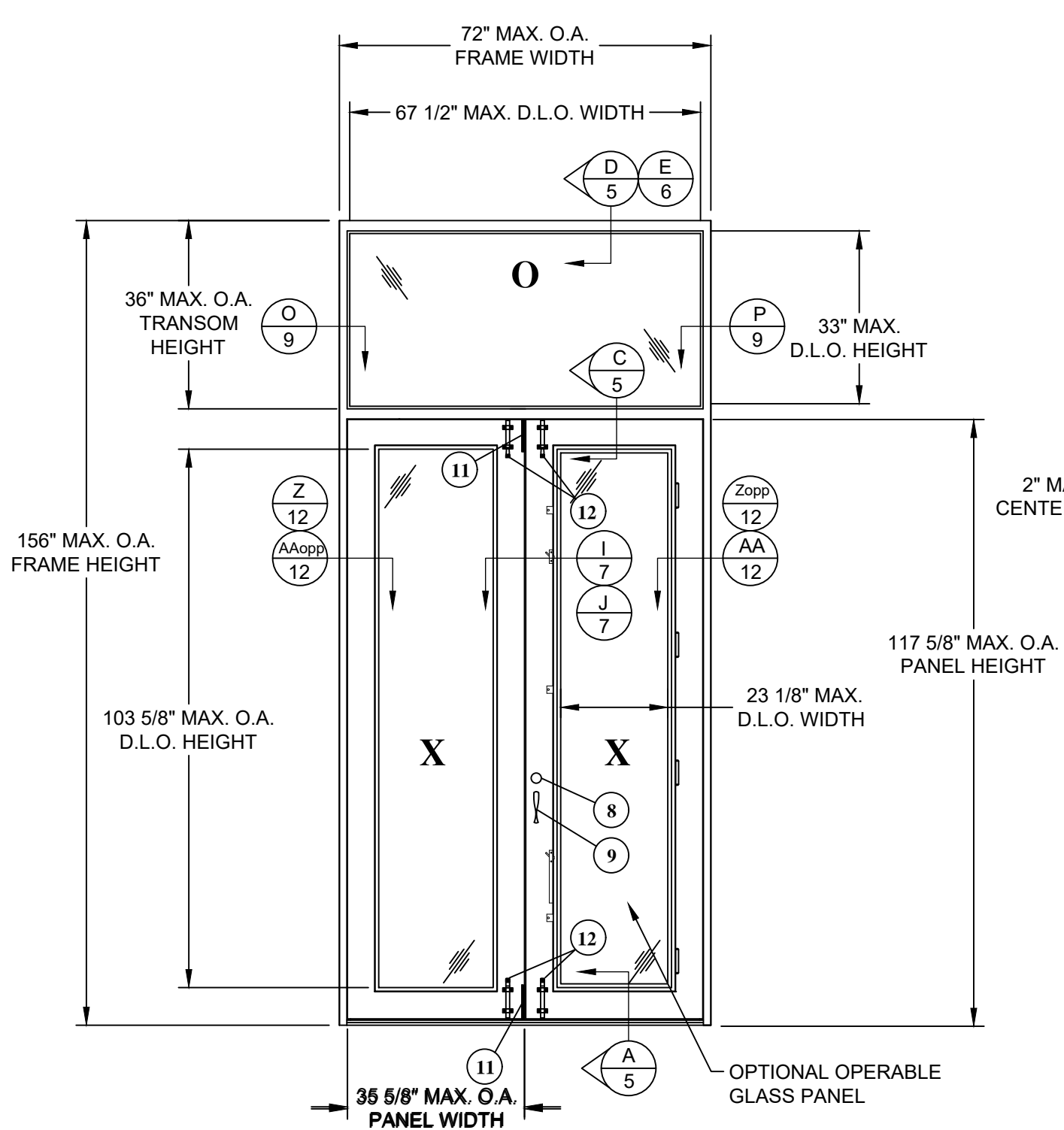
PROJECT# 420-1207				10/19/15	RJA	DATE	BY
				UPDATE TO CURRENT EDITION FBC	D	REV	DESCRIPTION

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		SCALE: N.T.S.	REV: D		

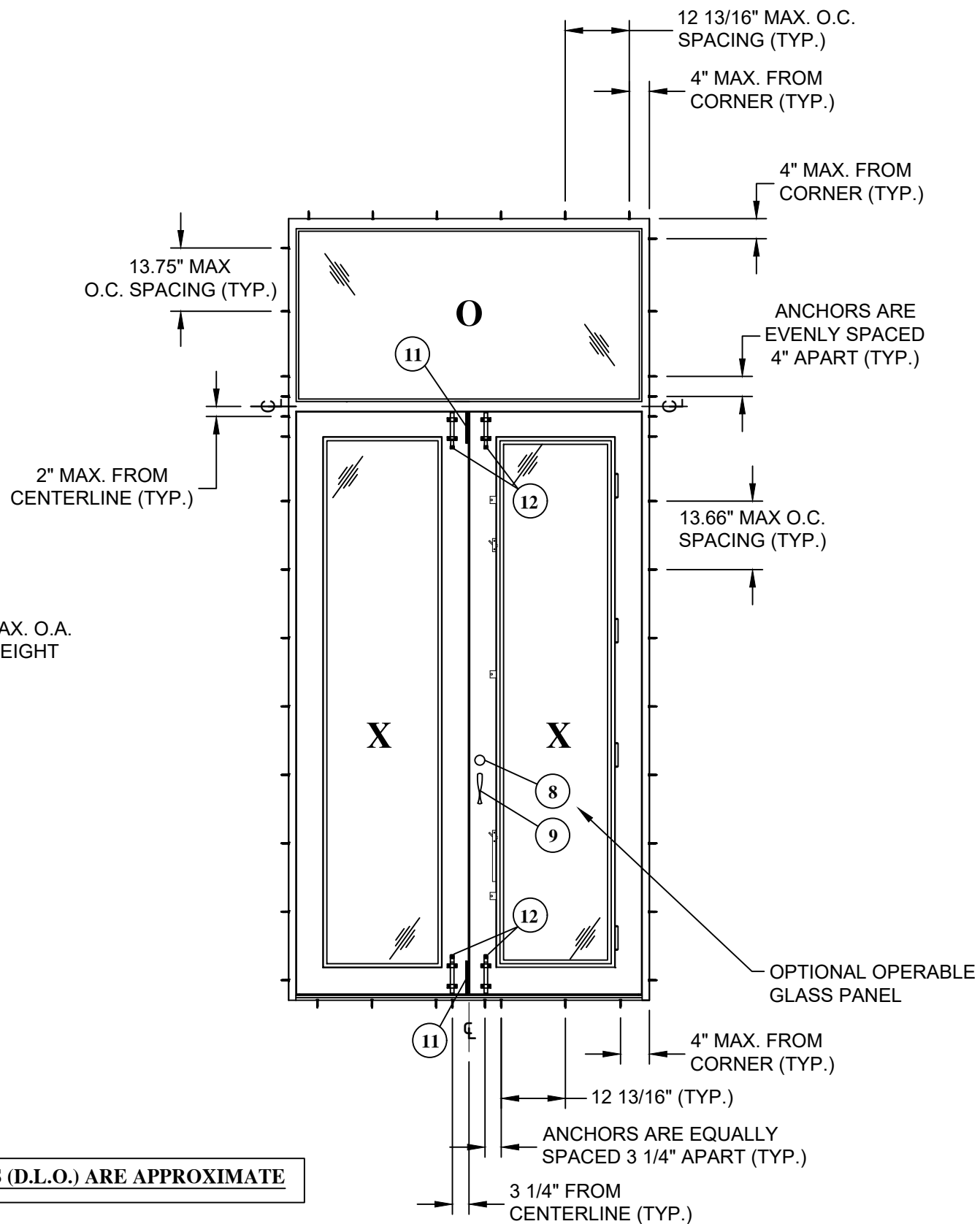
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ELEVATION
INTERIOR VIEW



ANCHOR LAYOUT
INTERIOR VIEW

PROJECT# 420-1207

VINTAGE IRONWORKS
987 JOSIANE COURT, SUITE 1064
ALTAMONTE SPRINGS, FLORIDA 32701

TITLE: STEEL OUTSWING DOORS W/ & W/O SIDELITES & TRANSOM
ELEVATION & ANCHOR LAYOUT

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REV: D

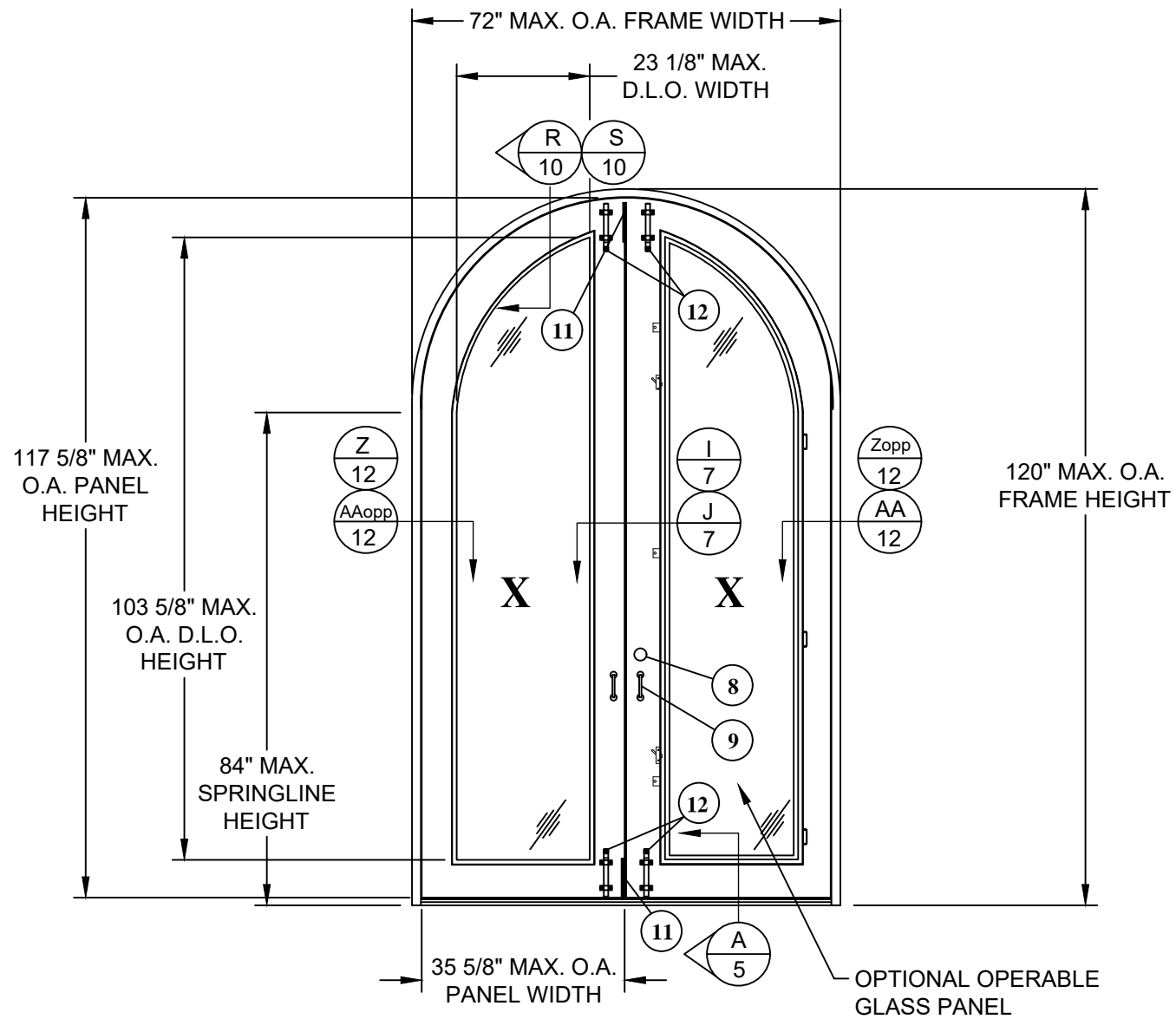
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DRAWING NO: VIN0004
SHEET: 3 OF 14

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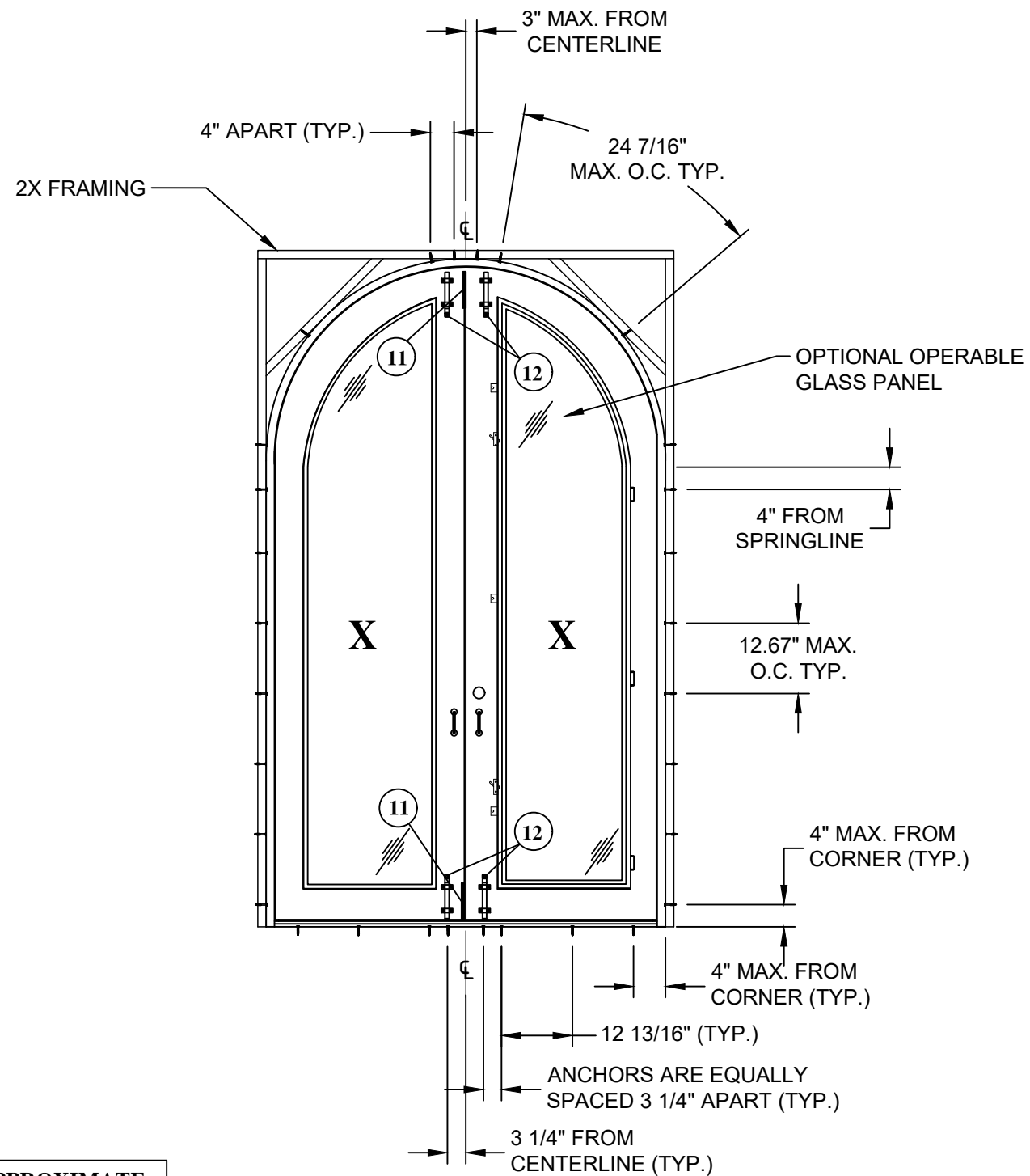
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ELEVATION
INTERIOR VIEW

DAYLIGHT OPENINGS (D.L.O.) ARE APPROXIMATE



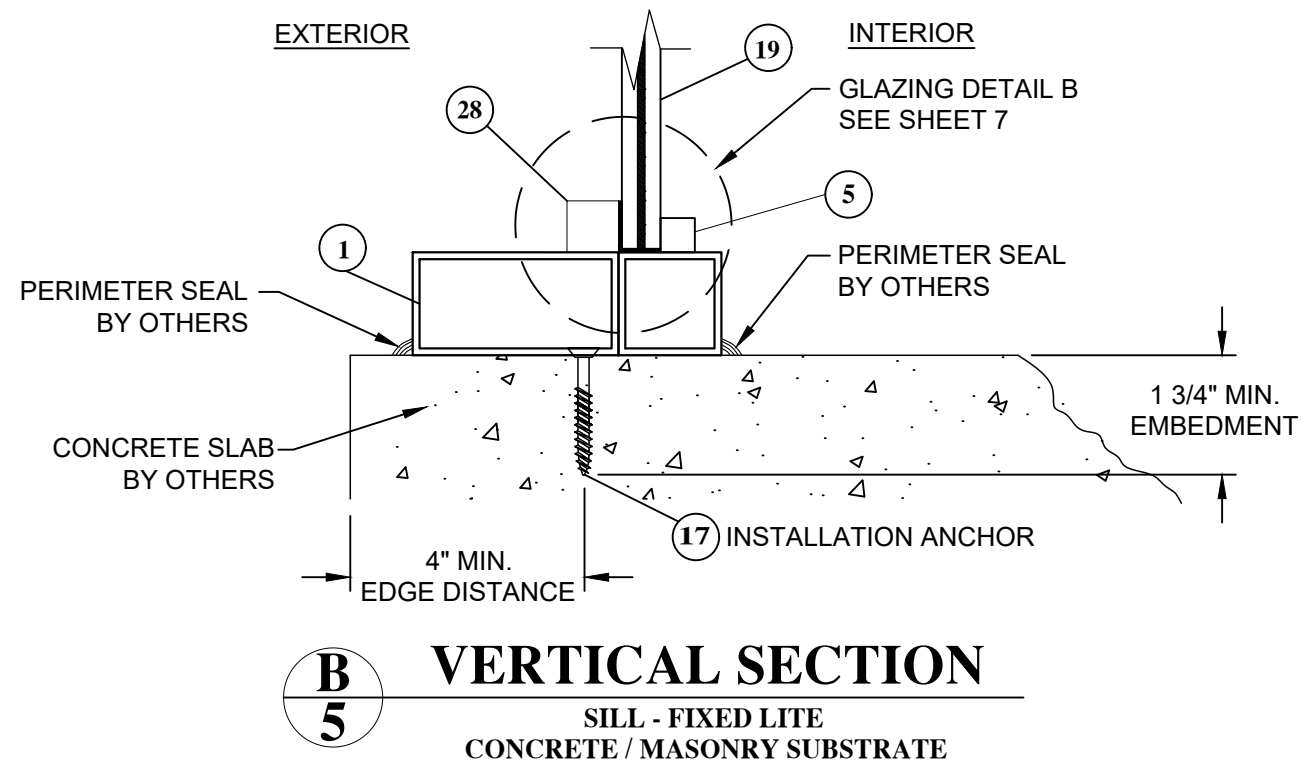
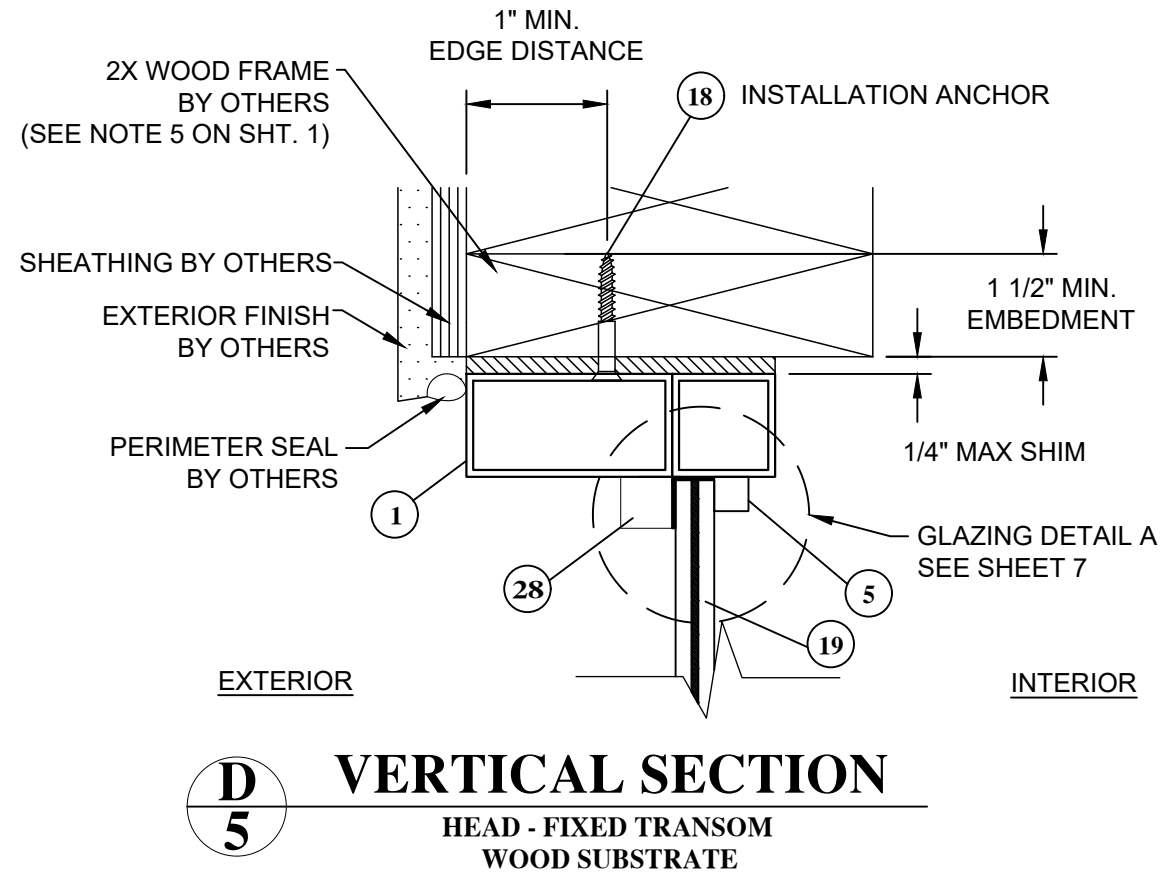
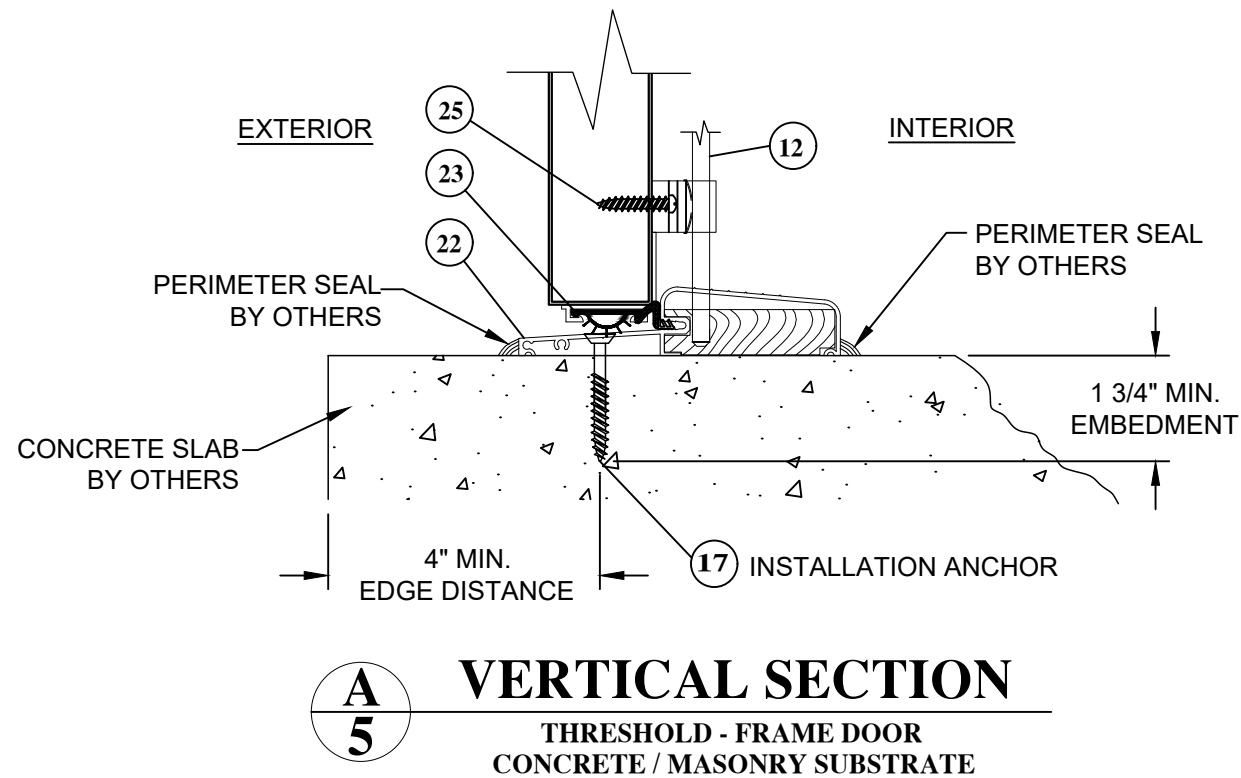
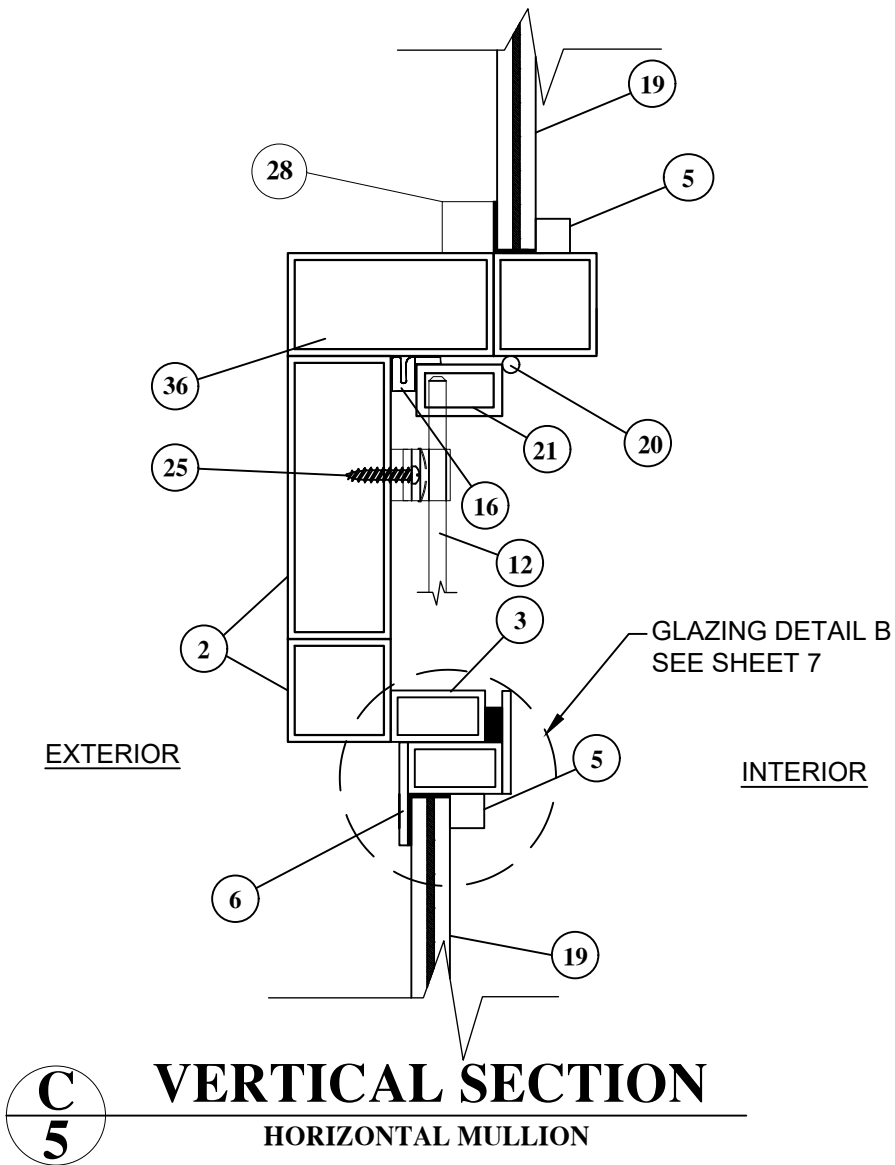
ANCHOR LAYOUT
INTERIOR VIEW

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		UPDATE TO CURRENT EDITION FBC	10/19/15	RJA
		REV/	DATE	BY

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	DRAWN BY: CB	DATE: 07/31/08	DRAWING NO: VIN0004	SHEET: 4 OF 14
	SCALE: N.T.S.	REV: D		
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PROJECT# 420-1207

VINTAGE IRONWORKS

987 JOSIANE COURT, SUITE 1064
ALTA MONTE SPRINGS, FLORIDA 32701

TITLE: STEEL OUTSWING DOORS W/ & W/O SIDELITES & TRANSOM
VERTICAL SECTIONS

DRAWN BY: CB DATE: 07/31/08

SCALE: N.T.S. DRAWING NO: VIN0004

REV: D SHEET: 5 OF 14

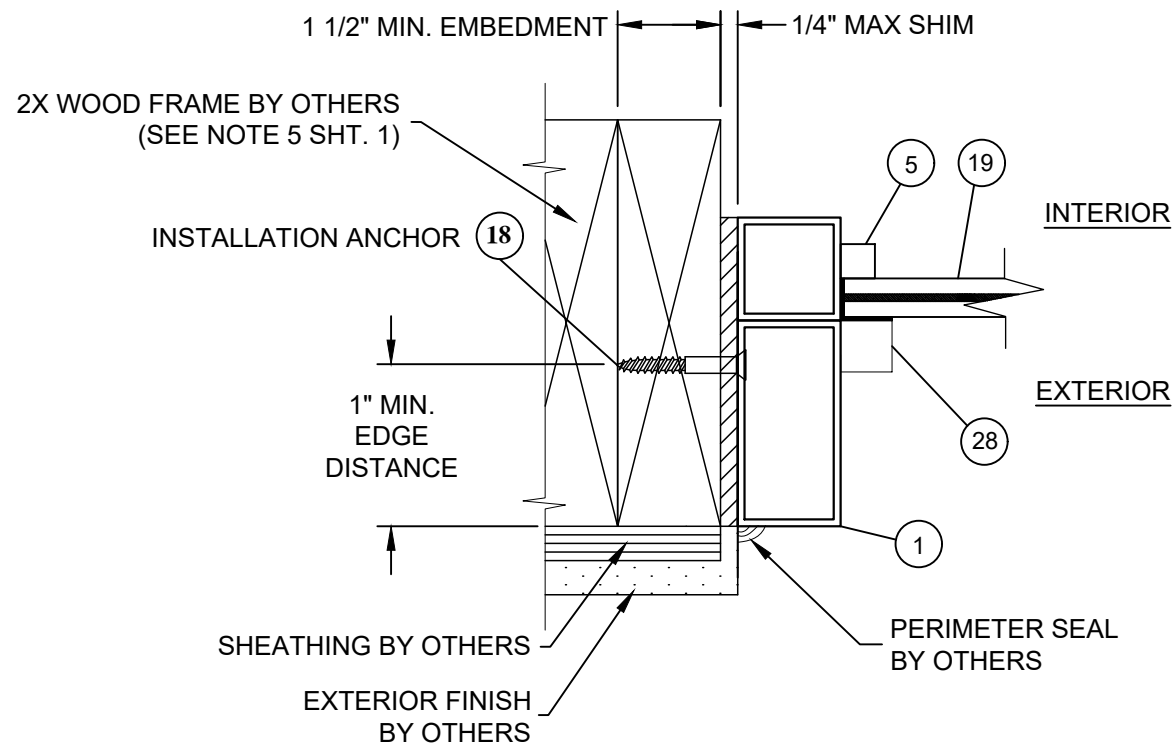
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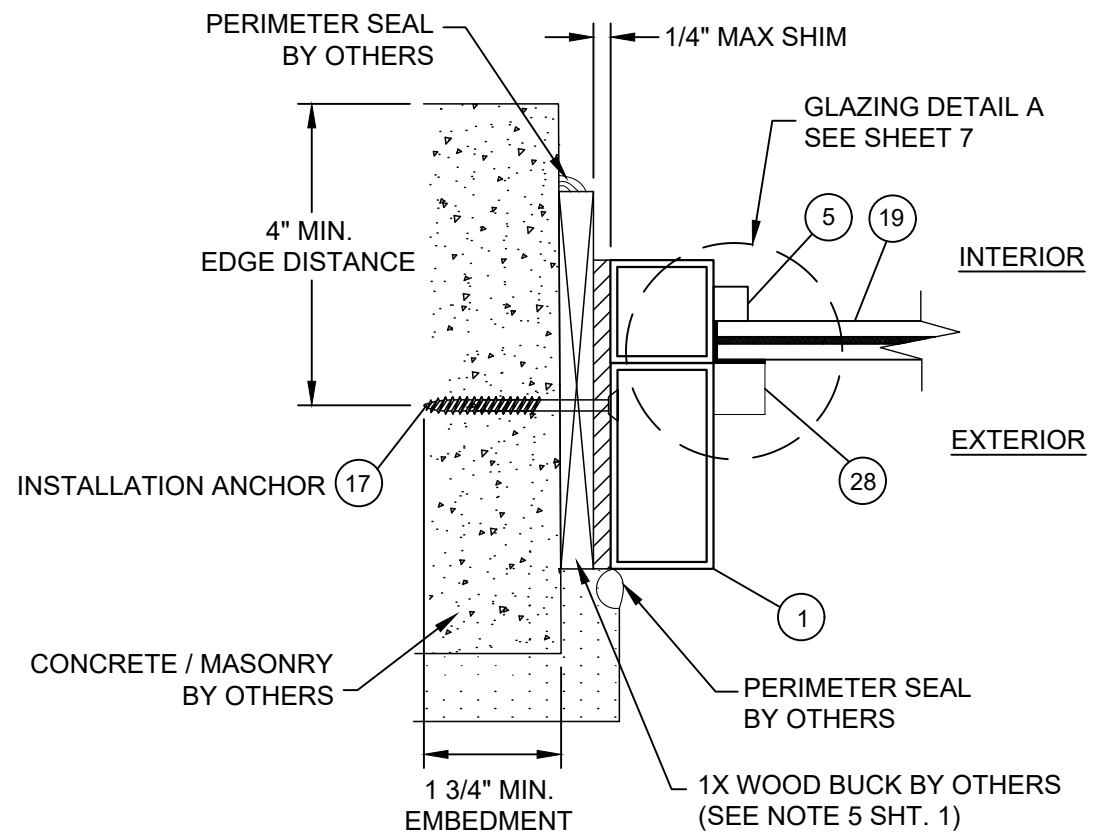


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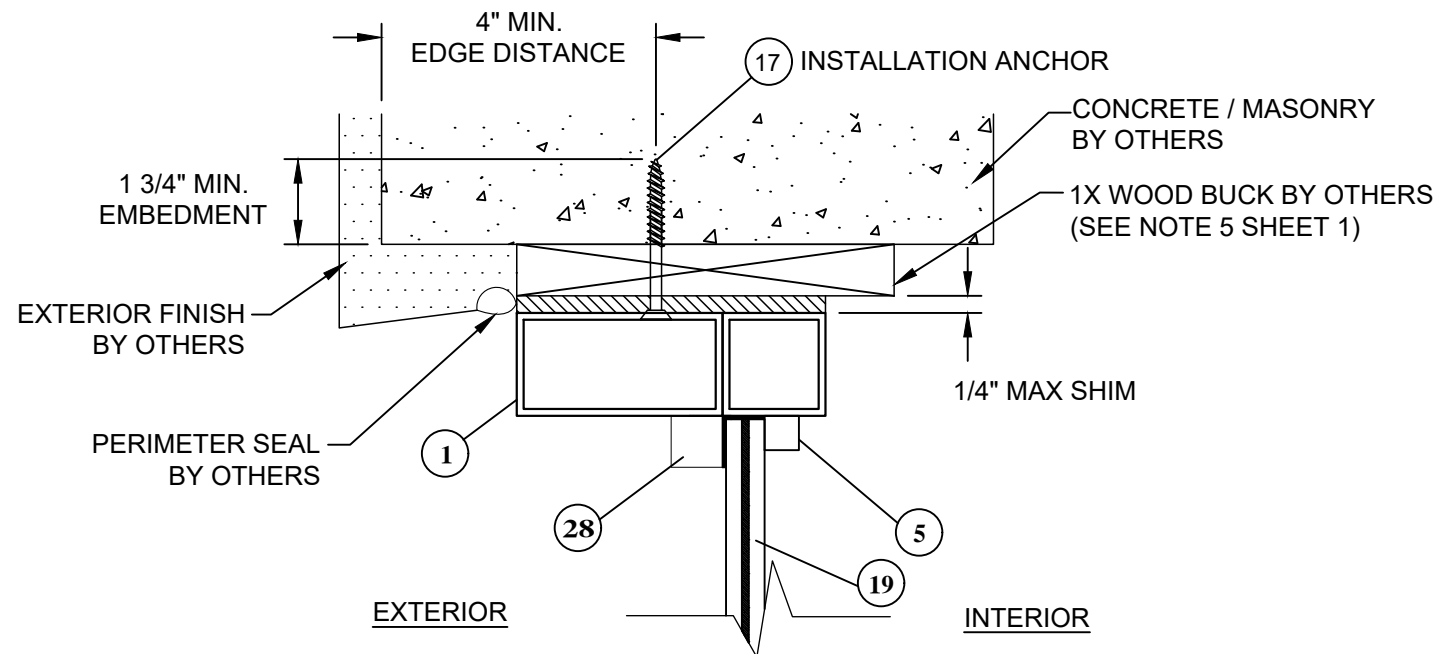
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6 **HORIZONTAL SECTION**

JAMB - FIXED LITE
WOOD FRAME SUBSTRATE



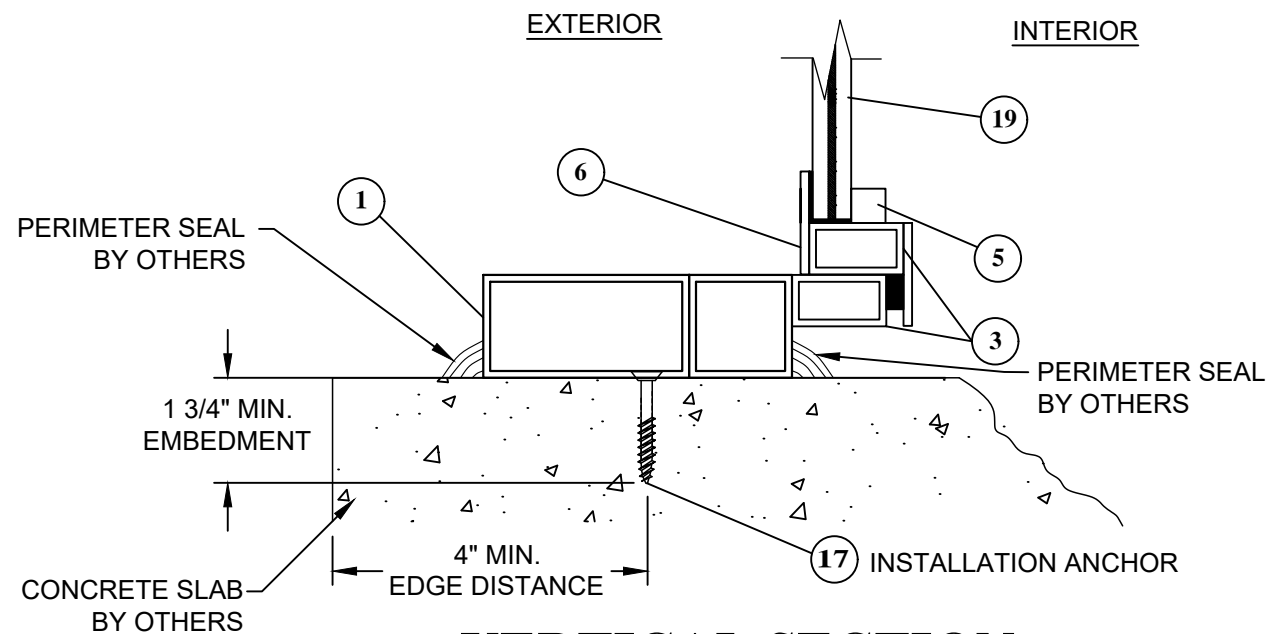
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6 **HORIZONTAL SECTION**

JAMB - FIXED LITE
CONCRETE / MASONRY SUBSTRATE



E
6 **VERTICAL SECTION**

HEAD - TRANSOM
CONCRETE / MASONRY SUBSTRATE



H
6 **VERTICAL SECTION**

SILL - SIDELITE W/ OPT. OPERABLE GLAZING
CONCRETE / MASONRY SUBSTRATE

PROJECT# 420-1207

VINTAGE IRONWORKS

987 JOSIANE COURT, SUITE 1064
ALTAMONTE SPRINGS, FLORIDA 32701

TITLE: STEEL OUTSWING DOORS W/ & W/O SIDELITES & TRANSOM
VERTICAL AND HORIZONTAL SECTIONS

PREPARED BY: CB
SCALE: N.T.S.
REV: D

DRAWN BY: CB
DATE: 07/31/08
DRAWING NO: VIN0004
SHEET: 6 OF 14

REV: D
DESCRIPTION
DATE
BY

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EDITION FBC
10/19/15
RJA

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DATE

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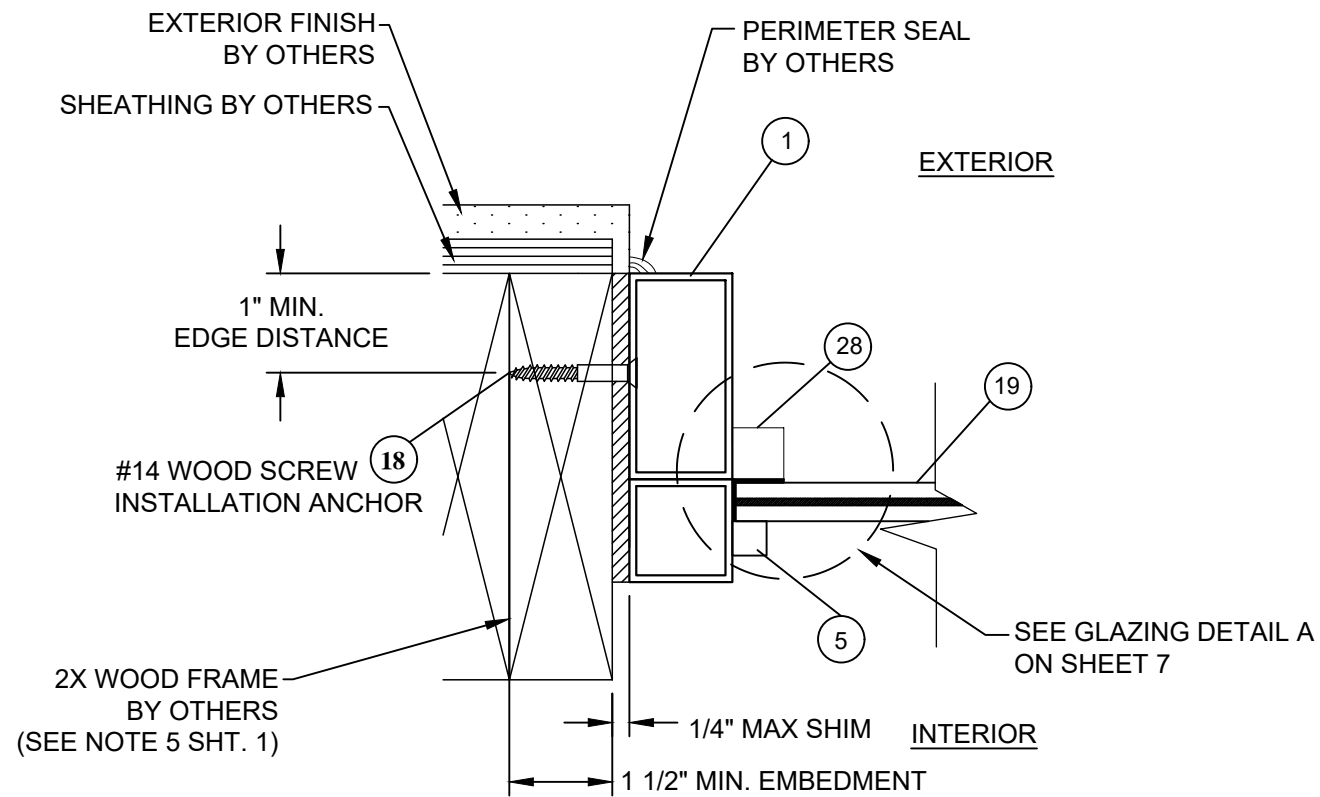
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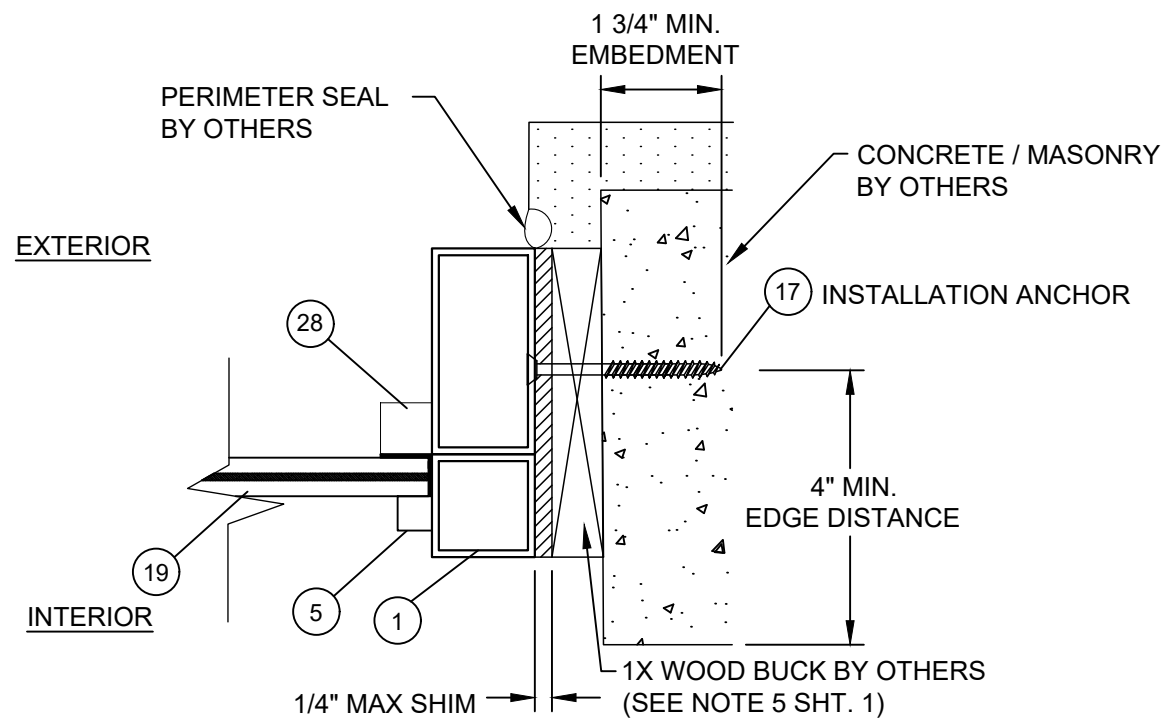


VINTAGE IRONWORKS 987 JOSIANE COURT, SUITE 1064 ALTAMONTE SPRINGS, FLORIDA 32701		PREPARED BY: 		DRAWN BY: CB	DATE: 07/31/08
TITLE: STEEL OUTSWING DOORS W/ & W/O SIDELITES & TRANSOM HORIZONTAL SECTIONS		SCALE: N.T.S.		DRAWING NO: VIN0004	
		REV: D		SHEET: 8 OF 14	

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O
9 **HORIZONTAL SECTION**
JAMB - FIXED TRANSOM
INTO WOOD SUBSTRATE



P
9 **HORIZONTAL SECTION**
JAMB - FIXED TRANSOM INTO
CONCRETE / MASONRY SUBSTRATE

PROJECT# 420-1207

REV	DESCRIPTION	DATE	BY
D	UPDATE TO CURRENT EDITION FBC	10/19/15	RJA

VINTAGE IRONWORKS
987 JOSIANE COURT, SUITE 1064
ALTAMONTE SPRINGS, FLORIDA 32701

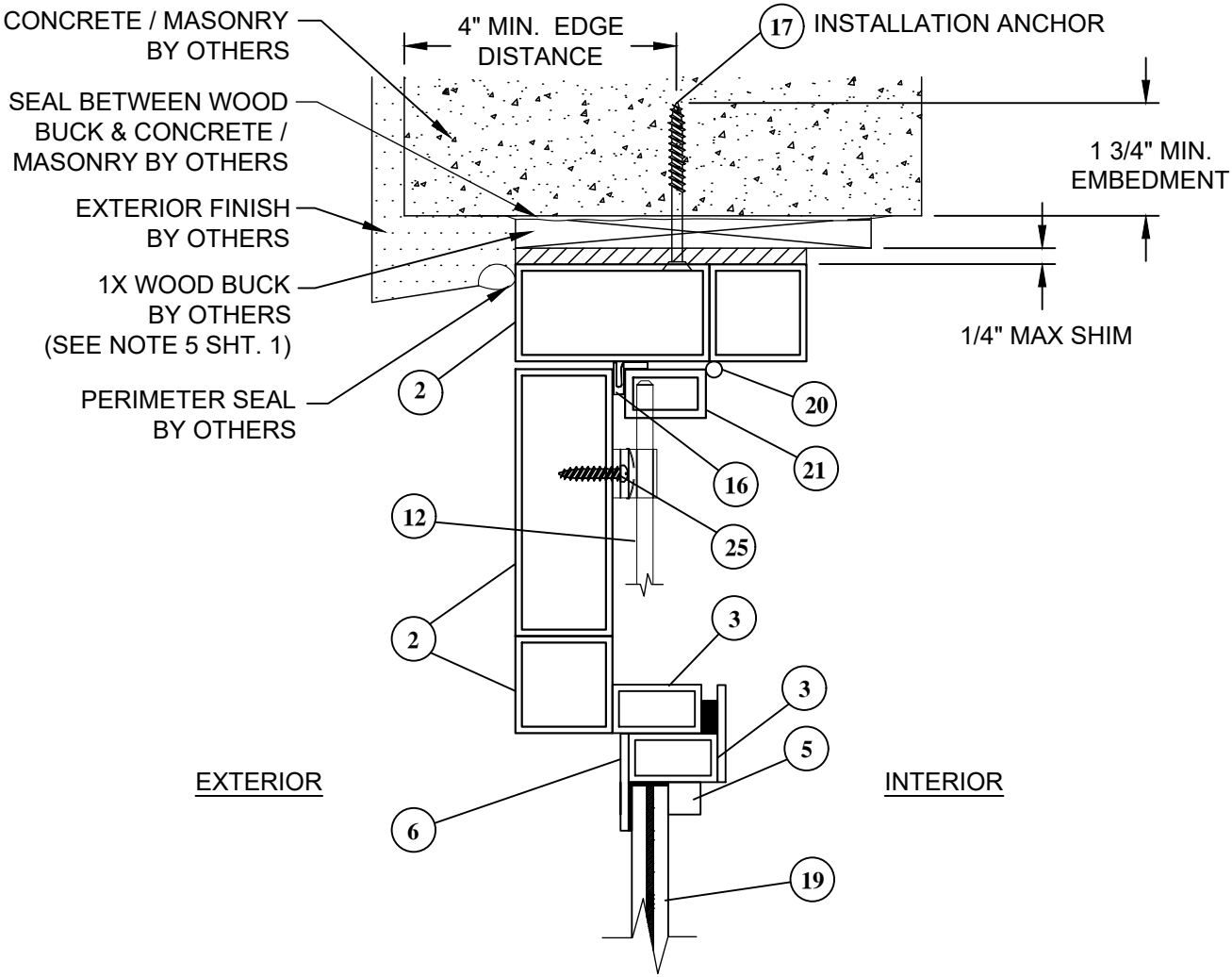
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HORIZONTAL SECTIONS

PREPARED BY:	DRAWN BY:	DATE:	SCALE:	DRAWING NO.:	SHEET:
	CB	07/31/08	N.T.S.	VIN0004	9 OF 14
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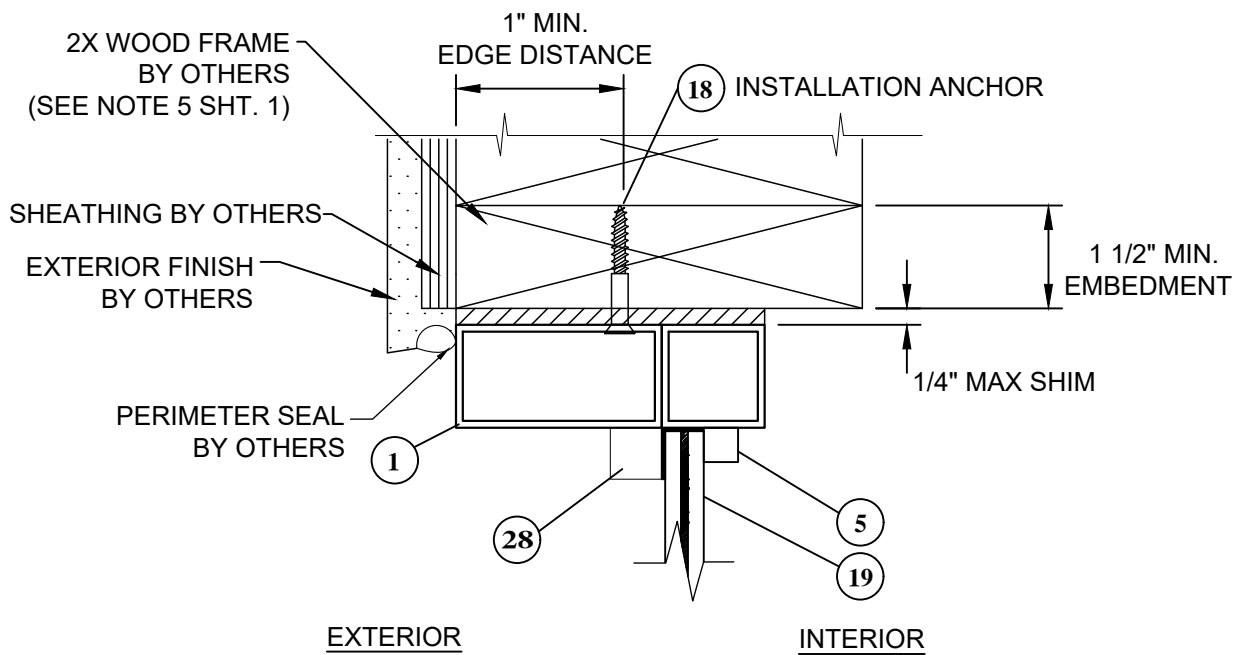
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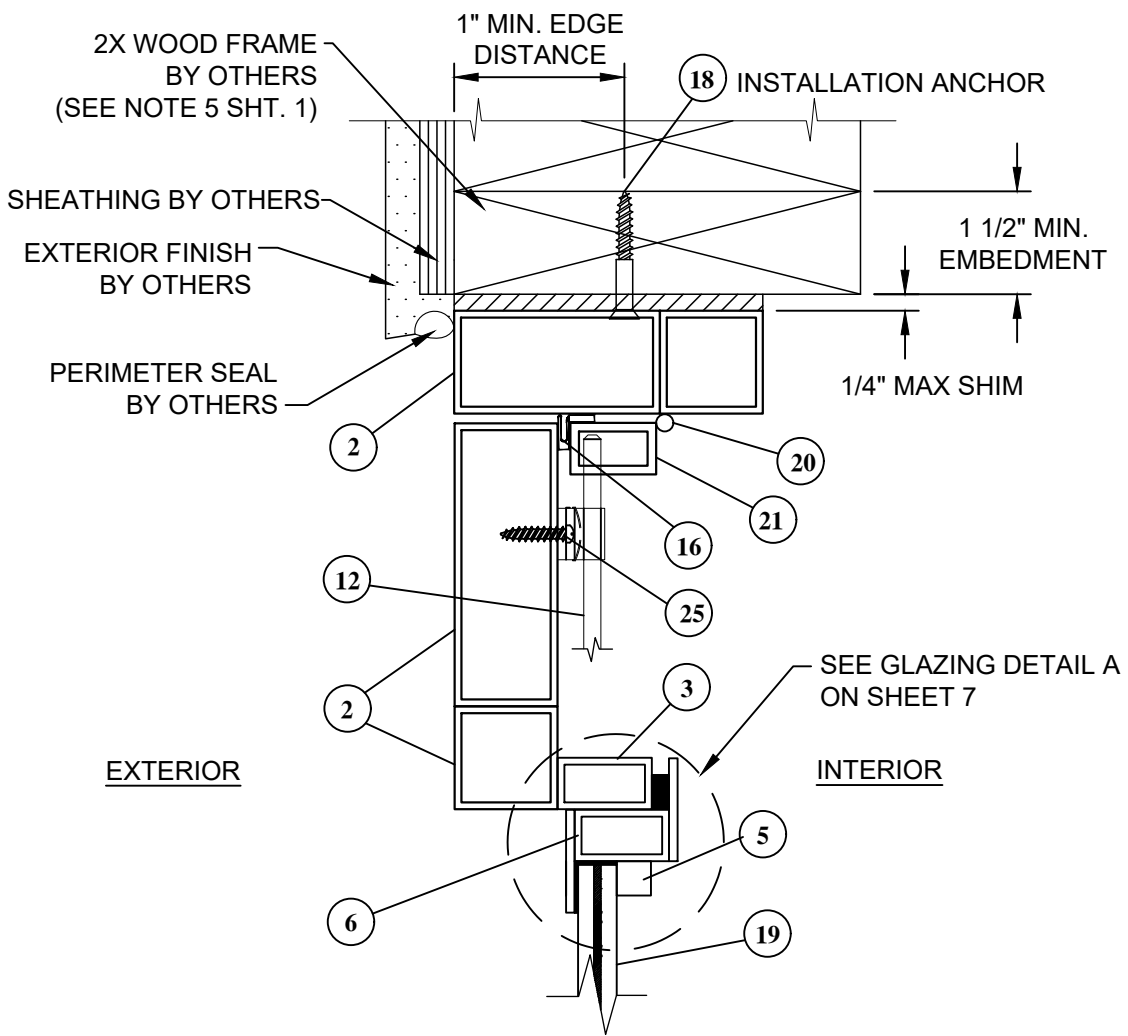
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R
10
VERTICAL SECTION
HEAD - FRAME DOOR
CONCRETE / MASONRY SUBSTRATE



Q
10
VERTICAL SECTION
HEAD - FIXED LITE
WOOD FRAME SUBSTRATE



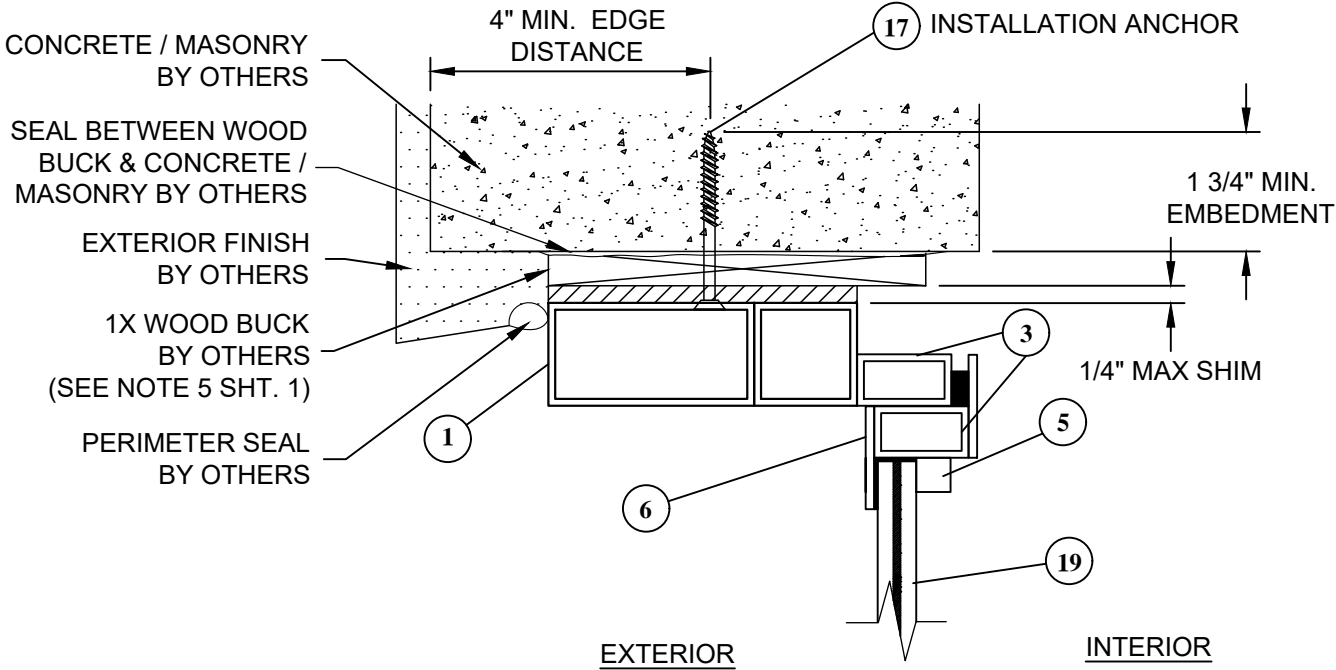
S
10
VERTICAL SECTION
HEAD - FRAME DOOR
WOOD SUBSTRATE

PROJECT# 420-1207					
			UPDATE TO CURRENT EDITION FBC	10/19/15	RJA
			REV	DATE	BY

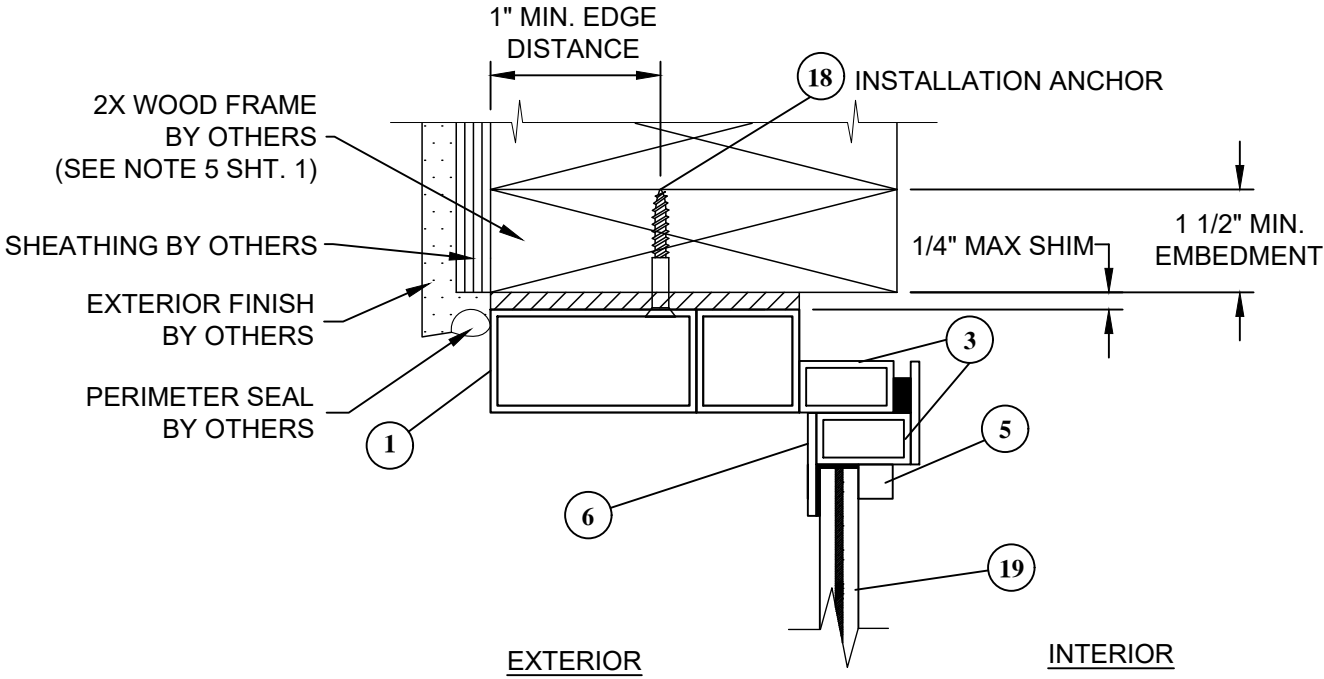
VINTAGE IRONWORKS	
987 JOSIANE COURT, SUITE 1064	
ALTAMONTE SPRINGS, FLORIDA 32701	
TITLE: STEEL OUTSWING DOORS W/ & W/O SIDELITES & TRANSOM VERTICAL SECTIONS	
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DATE:	07/31/08
SCALE:	N.T.S.
DRAWING NO:	VIN0004
REV:	D
SHEET:	10 OF 14

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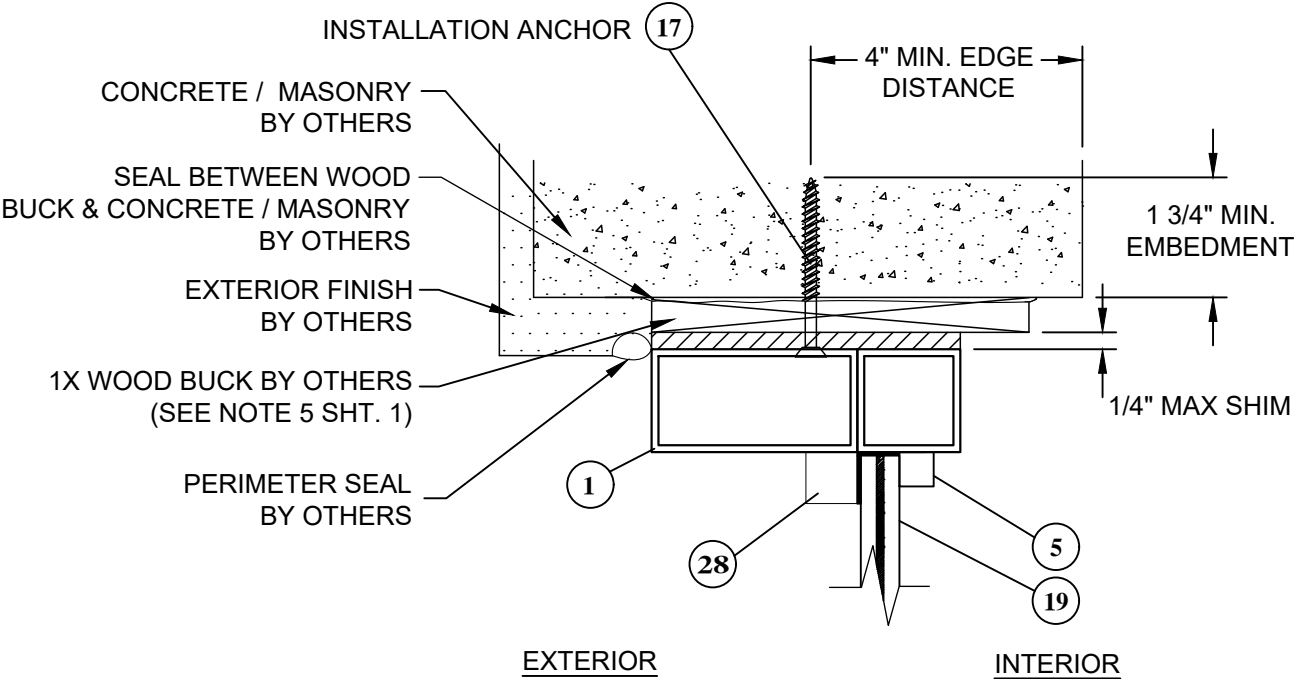
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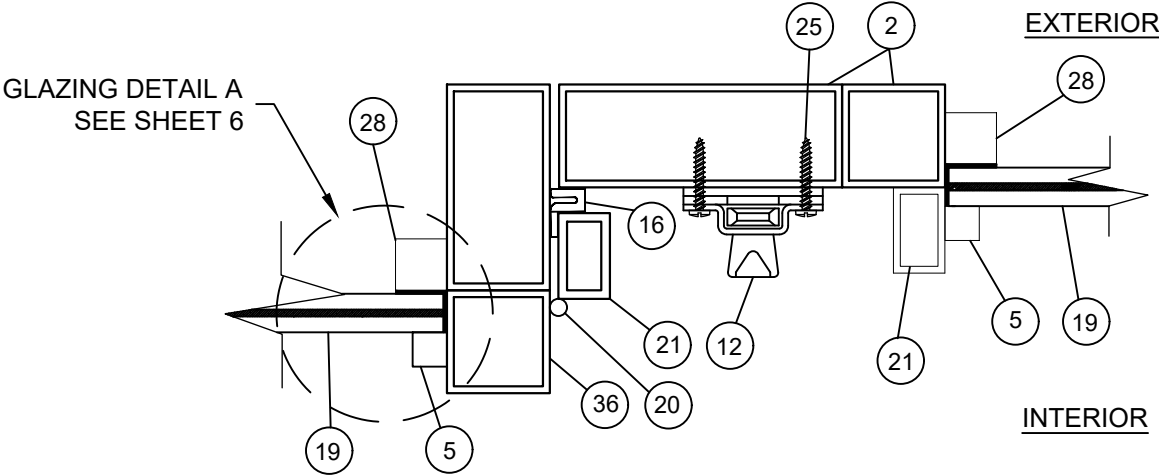
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11 **VERTICAL SECTION**
HEAD FRAME - SIDELITE W/ OPT. OPERABLE GLAZING
CONCRETE / MASONRY



V
11 **VERTICAL SECTION**
HEAD FRAME - SIDELITE W/ OPT. OPERABLE GLAZING
WOOD SUBSTRATE



T
11 **VERTICAL SECTION**
HEAD - FIXED LITE
CONCRETE / MASONRY SUBSTRATE



W
11 **HORIZONTAL SECTION**
LOCKSTILE INTO MULLION

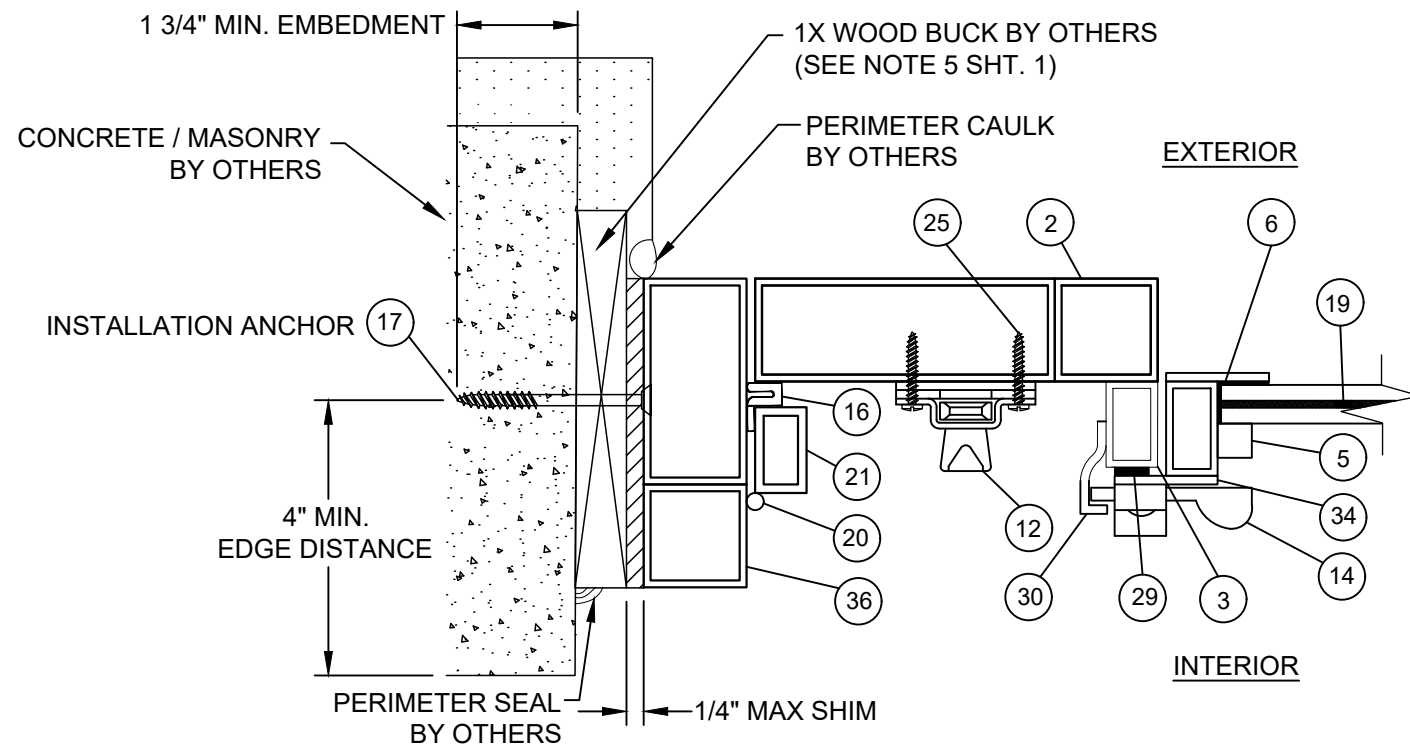
PROJECT# 420-1207					
				10/19/15	RJA
				UPDATE TO CURRENT EDITION FBC	
				D	REV
					DESCRIPTION

VINTAGE IRONWORKS 987 JOSIANE COURT, SUITE 1064 ALTAMONTE SPRINGS, FLORIDA 32701	DATE: 07/31/08	DRAWING NO: VIN0004	SHEET: 11 OF 14	D	REV
TITLE: STEEL OUTSWING DOORS W/ & W/O SIDELITES & TRANSOM VERTICAL AND HORIZONTAL SECTIONS	DRAWN BY: CB	SCALE: N.T.S.	REV: D	D	REV
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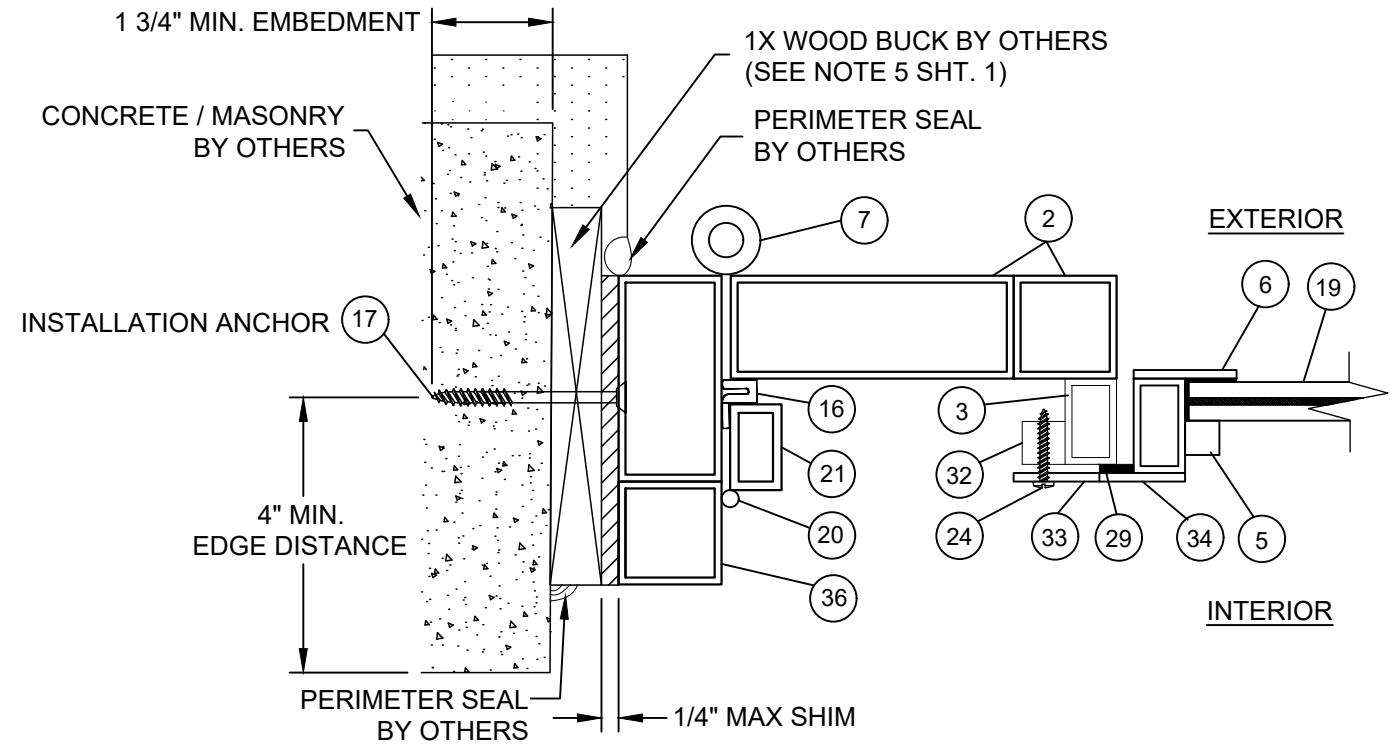
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PROFESSIONAL ENGINEER
STATE OF FLORIDA
No. 49752
12/23/20

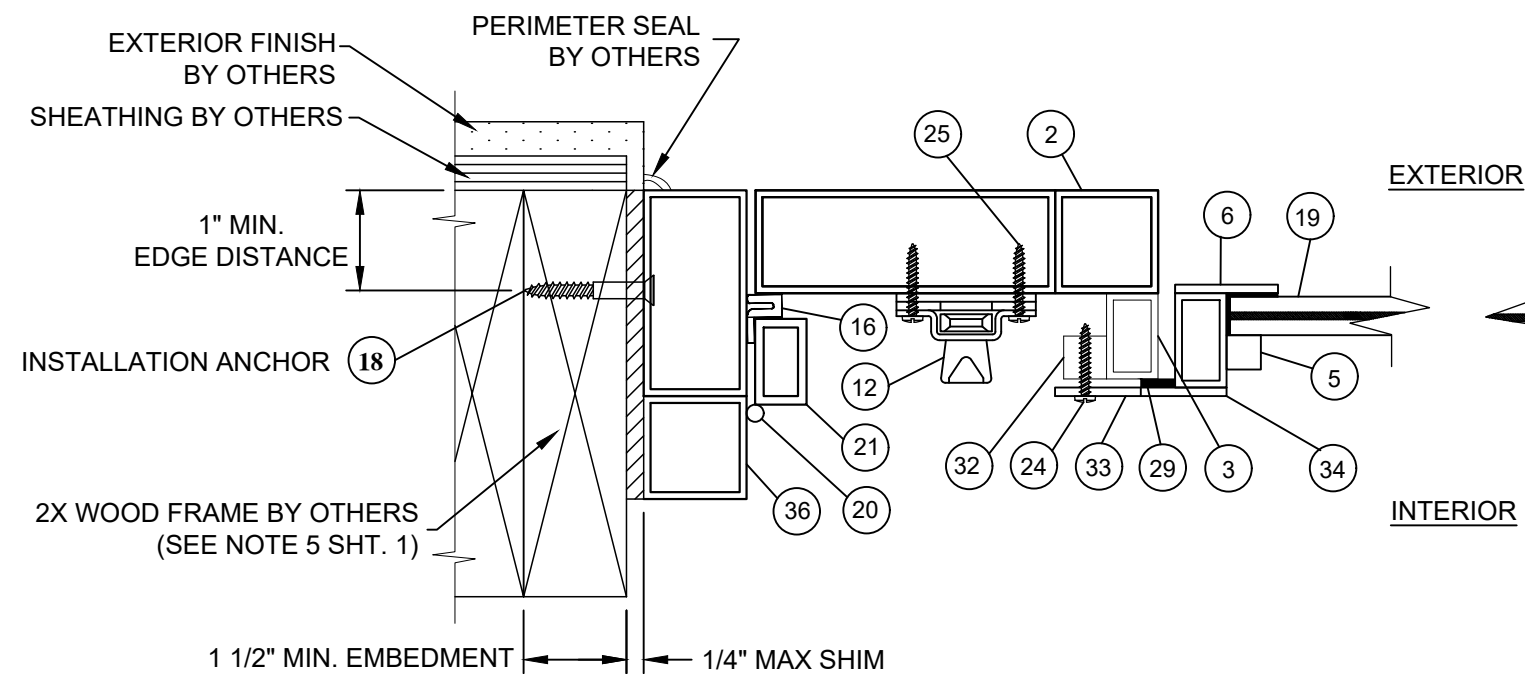
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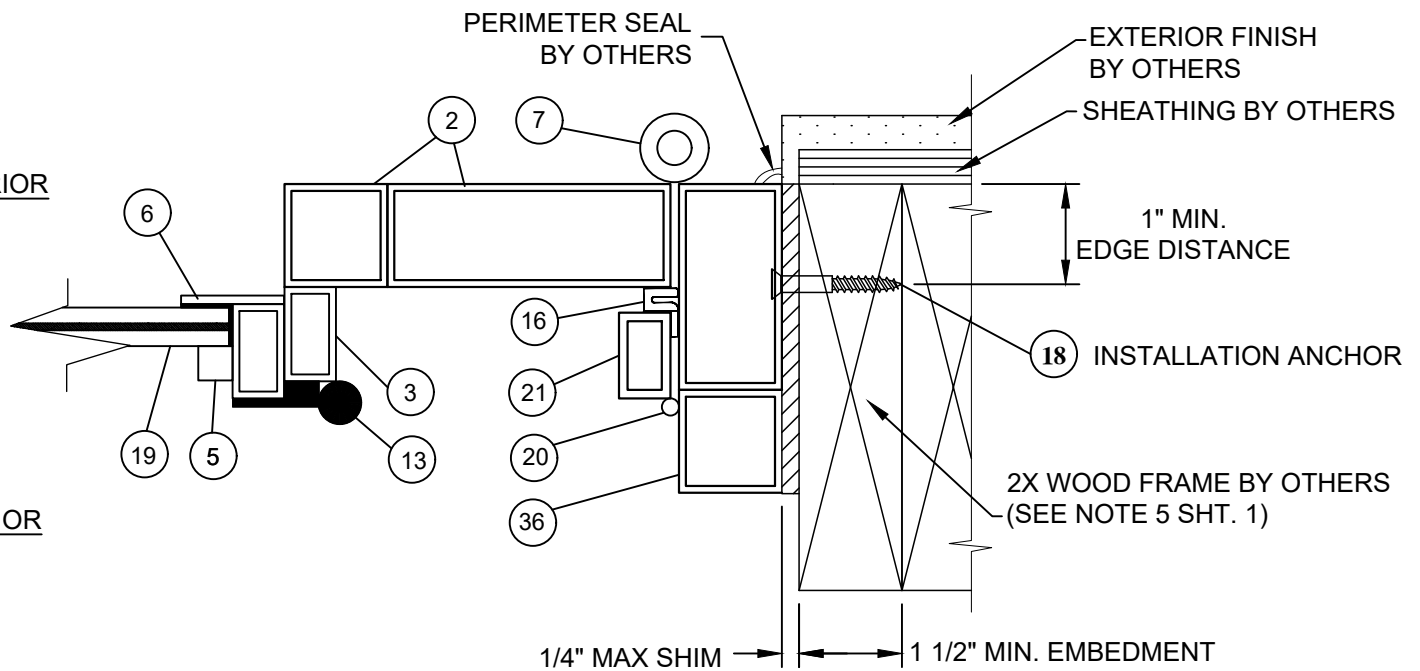
**Y
12** **HORIZONTAL SECTION**
JAMB - LOCKSTILE INTO
CONCRETE / MASONRY SUBSTRATE
W/ OPTIONAL OPERABLE GLAZING



**Z
12** **HORIZONTAL SECTION**
HINGE STILE INTO CONCRETE SUBSTRATE
W/ OPTIONAL OPERABLE GLAZING



**X
12** **HORIZONTAL SECTION**
JAMB - LOCKSTILE INTO
WOOD SUBSTRATE
W/ OPTIONAL OPERABLE GLAZING



**AA
12** **HORIZONTAL SECTION**
HINGE STILE INTO CONCRETE SUBSTRATE
W/ OPTIONAL OPERABLE GLAZING

PROJECT# 420-1207

VINTAGE IRONWORKS

987 JOSIANE COURT, SUITE 1064
ALTA MONTE SPRINGS, FLORIDA 32701

TITLE: STEEL OUTSWING DOORS W/ & W/O SIDELITES & TRANSOM
HORIZONTAL SECTIONS

DRAWN BY: CB DATE: 07/31/08
SCALE: N.T.S. DRAWING NO: VIN0004
REV: D SHEET: 12 OF 14

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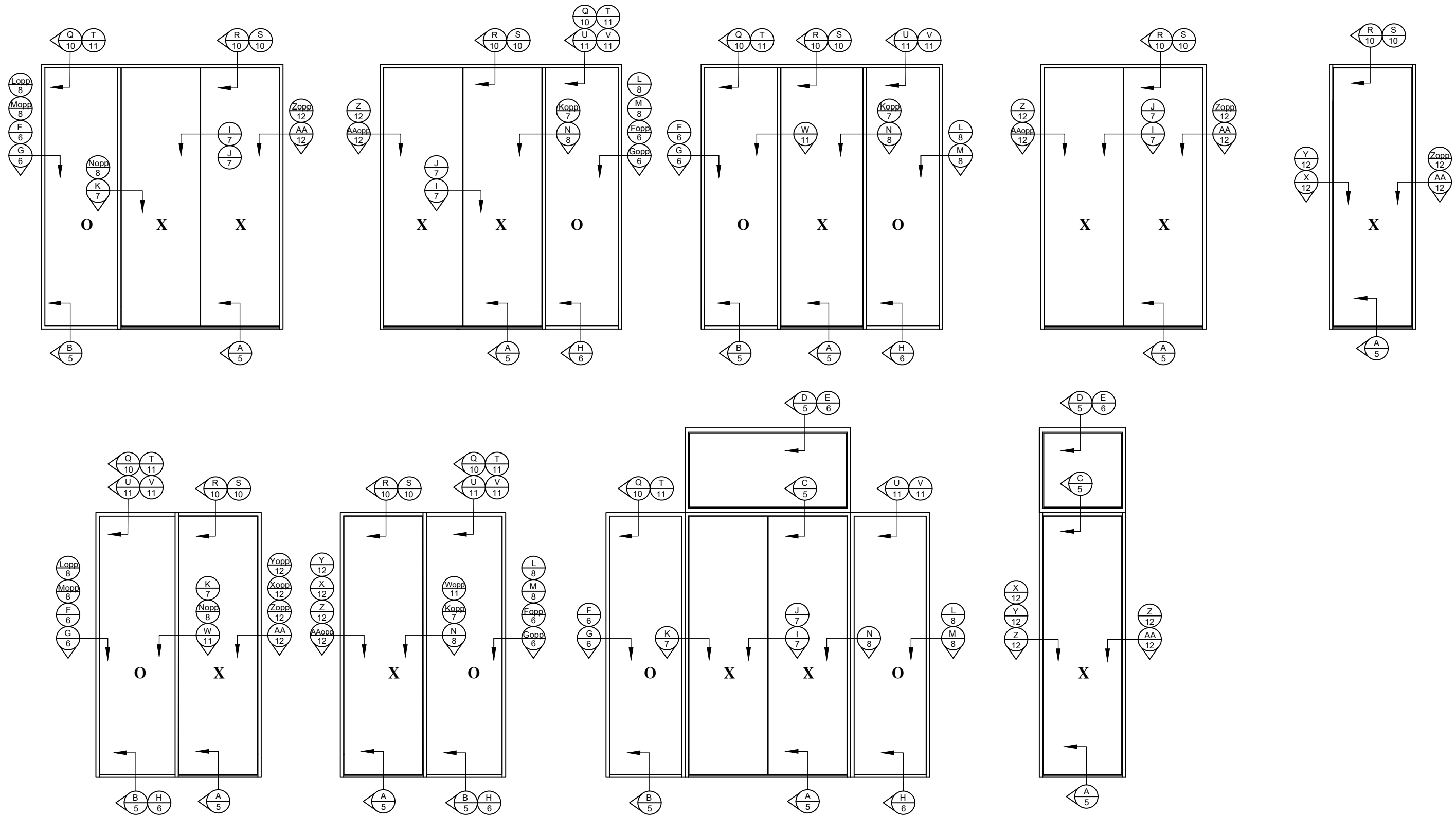
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QUALIFIED CONFIGURATIONS



NOTE: ALL QUALIFIED CONFIGURATIONS REQUIRE SURFACE BOLTS ON ALL DOOR PANELS.

PROJECT# 420-1207

D	DATE TO COMMENT	RJA
EDITION FBC	10/19/15	BY

VINTAGE IRONWORKS
987 JOSIANE COURT, SUITE 1064
ALTAMONTE SPRINGS, FLORIDA 32701
TITLE: STEEL OUTSWING DOORS W/ & W/O SIDELITES & TRANSOM
QUALIFIED CONFIGURATIONS

PREPARED BY:	DATE:
DRAWN BY:	07/31/08
SCALE:	DRAWING NO:
N.T.S.	VIN0004
REV:	SHEET:
D	13 OF 14

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



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