

PORTAL
ELEGANCE

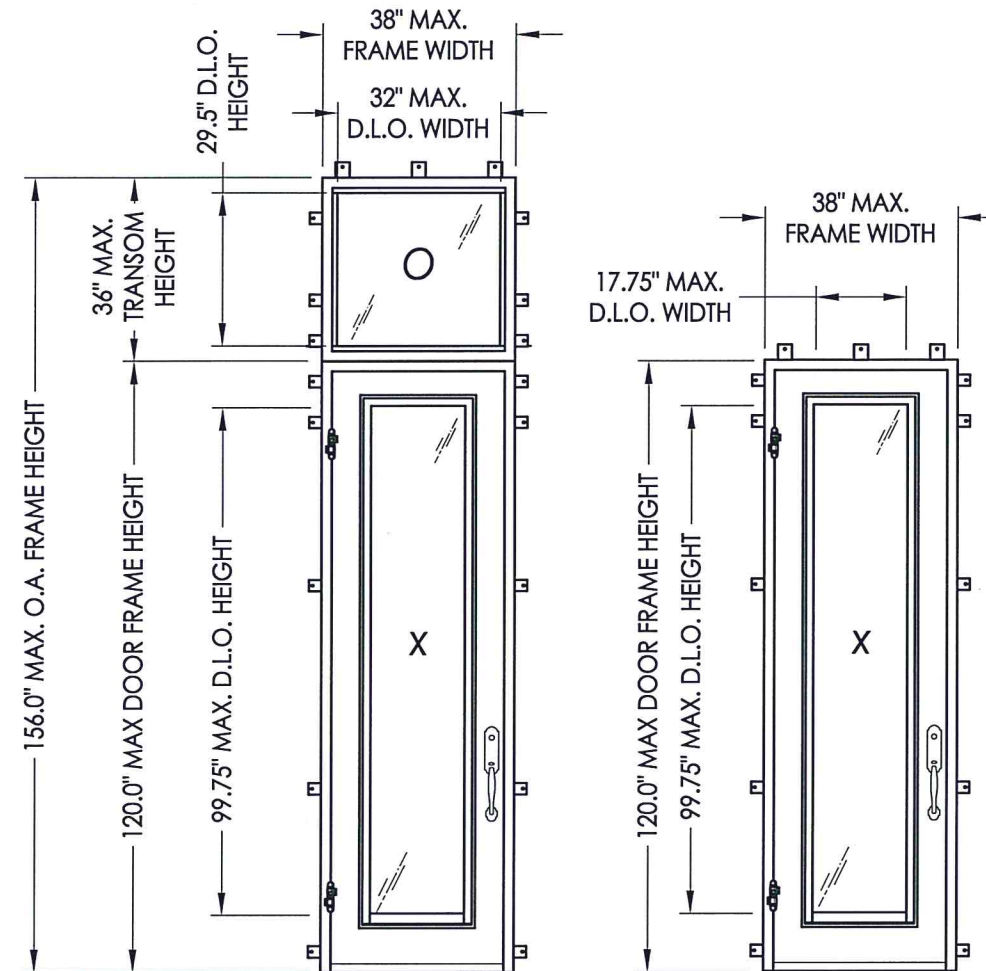
GLAZED IRON SINGLE DOOR w/ & w/out TRANSOM INSWING/OUTSWING "IMPACT"

GENERAL NOTES

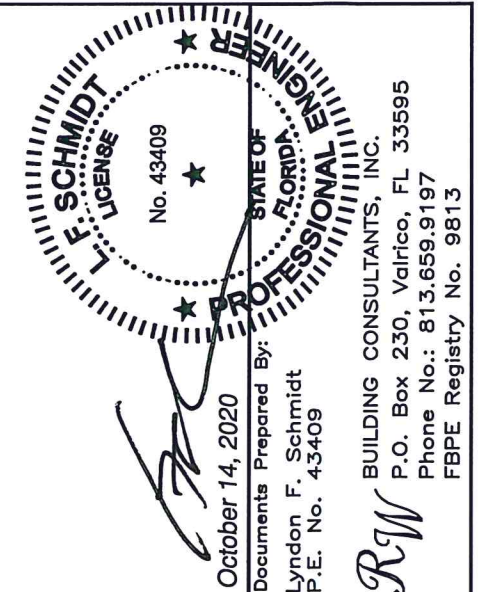
- This product has been evaluated and is in compliance with the 7th Edition (2020) Florida Building Code (FBC) structural requirements including the "High Velocity Hurricane Zone" (HVHZ).
- Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
- When used in the "HVHZ" this product complies with Section 1626 of the Florida Building Code and does not require an impact resistant covering.
- When used in areas requiring wind borne debris protection this product complies with FBC Sections 1609.1.2 & R301.2.1.2 and does not require an impact resistant covering. This product meets missile level "D" and includes Wind Zone 4 as defined in ASTM E 1996 and FBC Sections 1609.1.2.2 & R301.2.1.2.1.
- For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
- Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
- Outswing configurations utilizing item #39 meet water infiltration requirements for "HVHZ".
- Inswing configurations do not meet the water infiltration requirements for the "HVHZ". Inswing units shall be installed only in non-habitable areas or at habitable locations protected by an overhang or canopy such that the angle between the edge of canopy or overhang to sill is less than 45 degrees.
- All steel shall be protected as specified in Section 2222.6 of the FBC.

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1	Typical elevations, design pressures, & general notes
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CONFIGURATION	OVERALL FRAME DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)			
			INSWING		OUTSWING	
			POS.	NEG.	POS.	NEG.
X	38.0" x 120.0"	G1	+70.0	-70.0	+70.0	-70.0
O/X	38.0" x 156.0"	G1	+70.0	-70.0	+70.0	-70.0
X	38.0" x 120.0"	G2	+50.0	-50.0	+50.0	-55.0
O/X	38.0" x 156.0"	G2	+50.0	-50.0	+50.0	-55.0



October 14, 2020
Documents Prepared By:
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FBPE Registry No. 9813

PRODUCT: IRON DOORS		PART OR ASSEMBLY: TYPICAL ELEVATIONS, DESIGN PRESSURES & GENERAL NOTES	
		RW	BY
		10/14/20	DATE
		UPDATE TO 7TH ED. (2020) FBC	NO.
		REVISIONS	
DATE: 8/06/20			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-32651.6			
SHEET 1 OF 8			

Technical drawing of a door panel showing dimensions and callouts:

- 33.75" PANEL WIDTH**: Dimension across the top of the panel.
- 117.375" PANEL HEIGHT**: Dimension along the left side of the panel.
- 8.75"**: Dimension from the top edge to the center of the top handle.
- 89"**: Dimension from the top edge to the center of the bottom handle.
- 44.5"**: Dimension from the top edge to the center of the bottom handle.
- 14.25"**: Dimension from the bottom edge to the center of the bottom handle.
- 23.5" O.C. (TYP.)**: Dimension from the center of the top handle to the center of the bottom handle.
- 6" (TYP.)**: Dimension from the bottom edge to the center of the bottom handle.
- Callouts 1 and 2**: Two circular callouts, each divided horizontally with '1' in the top half and '2' in the bottom half. Callout 1 points to the top handle, and callout 2 points to the bottom handle.
- Callout 40**: A circular callout with '40' inside, pointing to the bottom handle.
- DOOR PANEL**: Text label at the bottom right of the drawing.

Diagram illustrating the SASH LOCK DETAIL. The components shown are:

- DOOR
- LOCK STUD
- LOCK BRACKET
- LOCK NUT
- SASH
- WELD

The diagram shows a cross-section of the door and sash assembly. The door is at the top, and the sash is at the bottom. A lock bracket is mounted on the sash, and a lock nut is attached to the bottom of the door. A lock stud is shown passing through the door and sash, secured by a weld.

The technical drawings illustrate the cross-sections of a door and a window profile. The top drawing shows a door profile with a 2" wide top rail and a 6" high glazing area. It includes a cam lock on the interior side and a glazing bead. The bottom drawing shows a window profile with a 4.25" high glazing area and a 6.25" high bottom rail. It includes a cam lock on the interior side and a weld on the exterior side. Both profiles have a 0.125" thick glazing bead. The drawings are labeled with 'INTERIOR' and 'EXTERIOR' to indicate the respective sides. Callouts G1 and G2 point to specific components in the window profile. A note indicates that the cam lock is 1-1/2" PFH SMS from each end.

2"

TOP RAIL

0.125"

6"

CAM LOCK

GLAZING BEAD

7

INTERIOR

EXTERIOR

G2 G1

X 1-1/2" PFH SMS
FROM EACH END.)

CAM LOCK

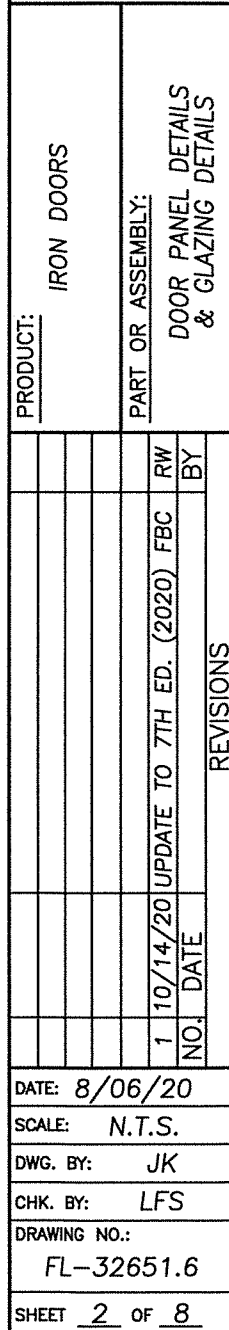
WELD

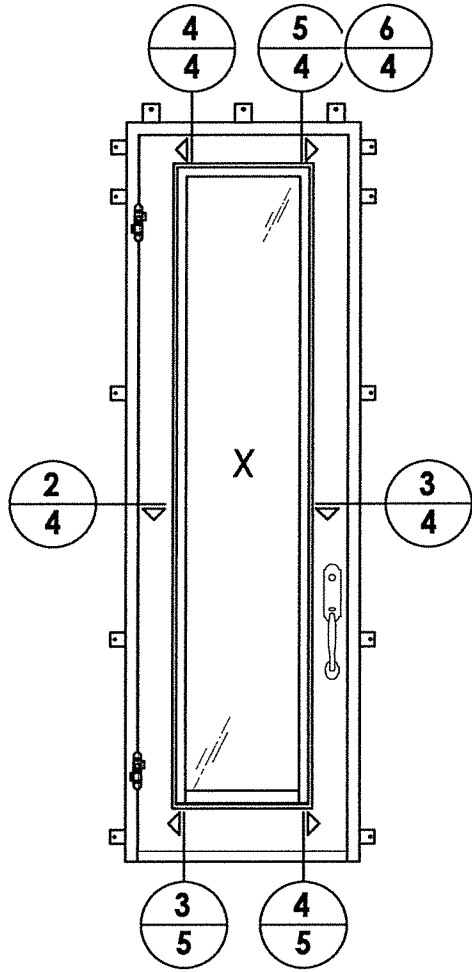
0.125"

BOTTOM RAIL

4.25"

6.25"





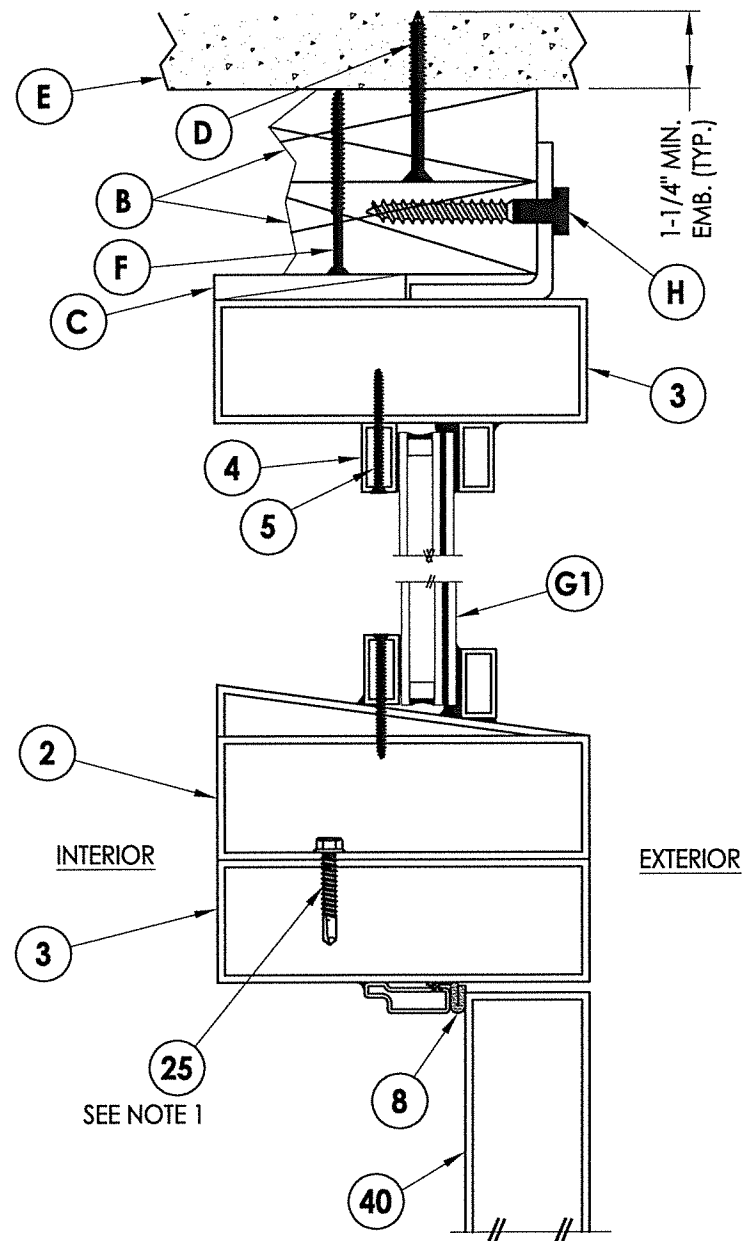
A circular professional engineer seal for the State of Florida. The outer ring contains the text "F. SCHMIDT" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by three stars. The inner ring contains the text "LICENSE" on the left and "STATE OF FLORIDA" on the right, also separated by three stars. In the center of the seal, the text "No. 43409" is displayed above a single star. A vertical line, likely a page fold, passes through the right side of the seal.

October 14, 2020

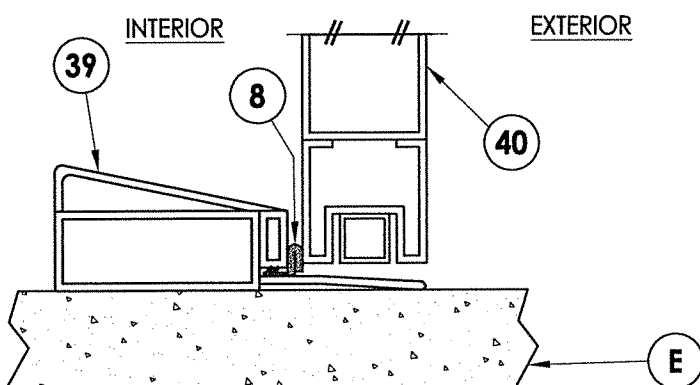
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FBPE Registry No. 9813

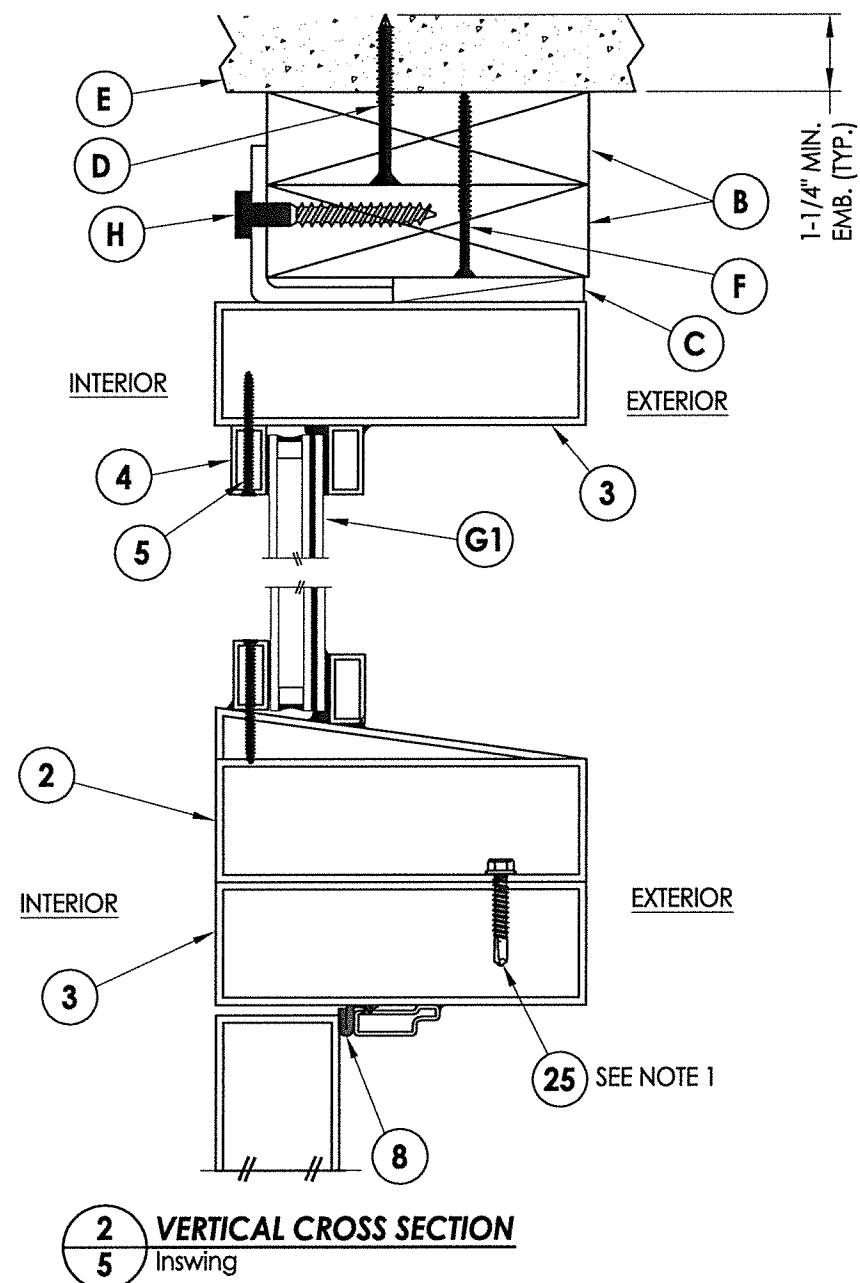
DATE: 8/06/20		PRODUCT: IRON DOORS	
SCALE: N.T.S.		PART OR ASSEMBLY: ELEVATIONS	
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-32651.6			
SHEET 3 OF 8			



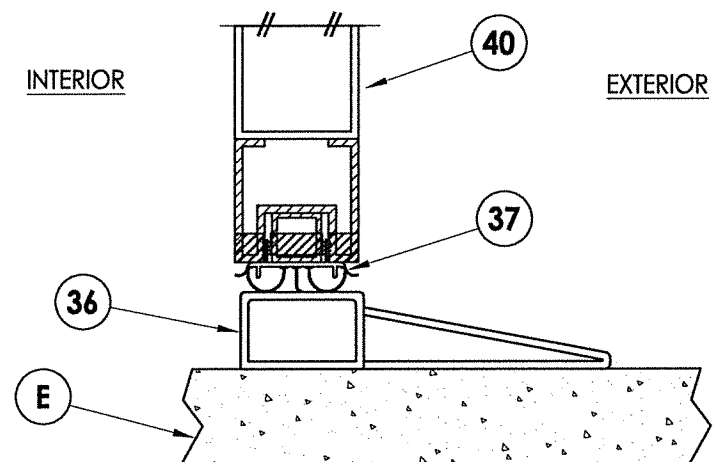
1 VERTICAL CROSS SECTION
5 Outswing



3 VERTICAL CROSS SECTION
5 Outswing



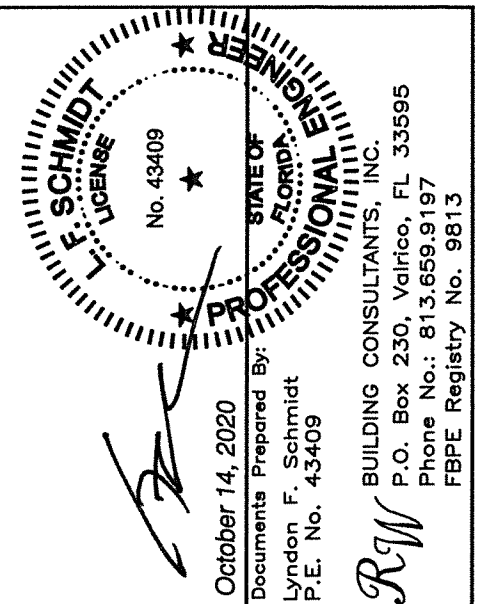
2 VERTICAL CROSS SECTION
5 Inswing



4 VERTICAL CROSS SECTION

NOTE :

1. Item #35 location: 4" from each and (2) more equally spaced (4 total).



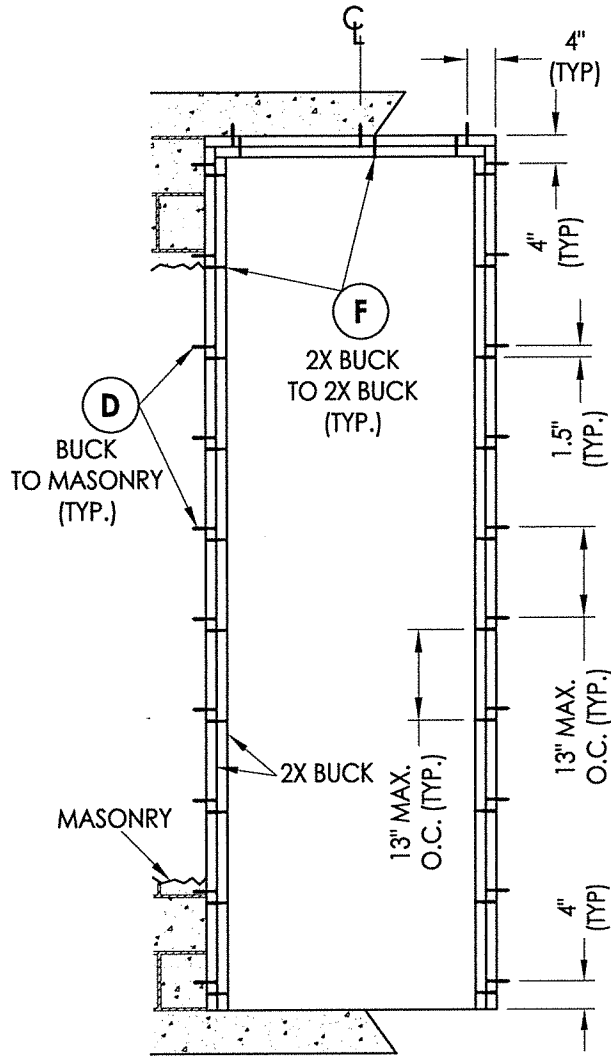
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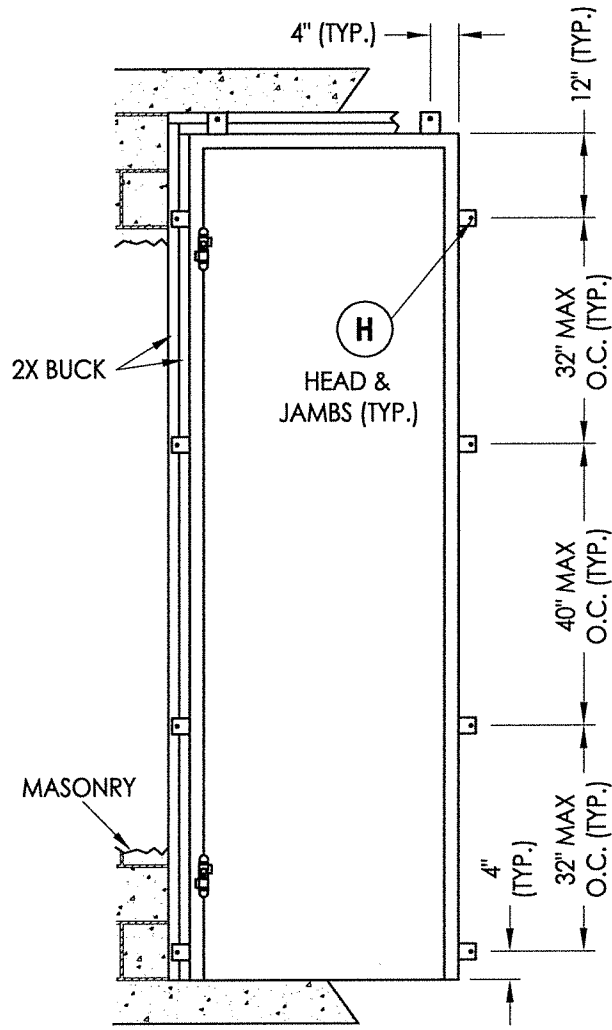
RW
BUILDING CONSULTANTS, INC.
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FBPE Registry No. 9813

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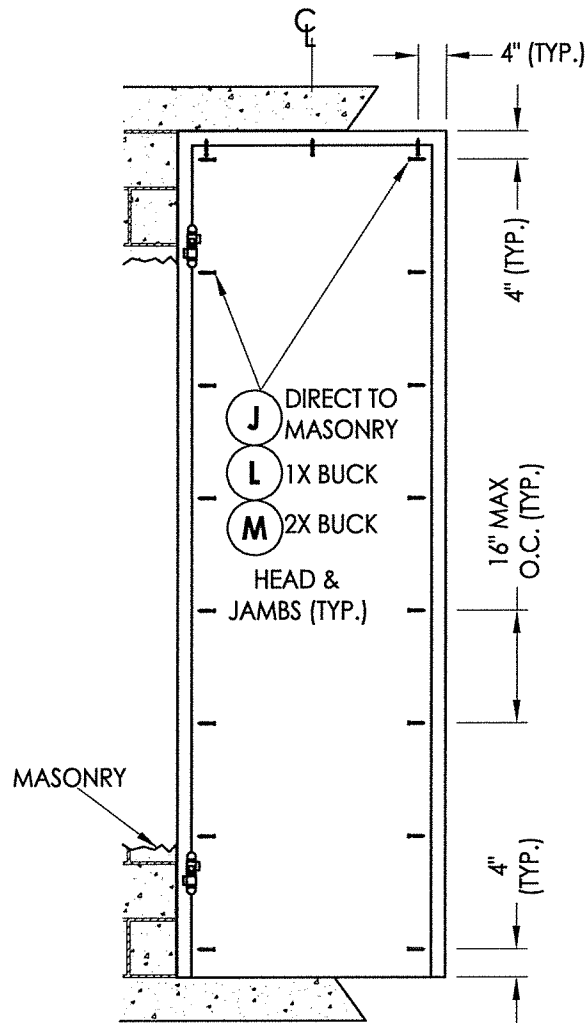
\\dc01\rbwc\Clients\Portal Elegance\A - Florida Product Approvals\FL-32651\C - Drawings\FL-32651 (2020)\FL-32651.5-8.dwg



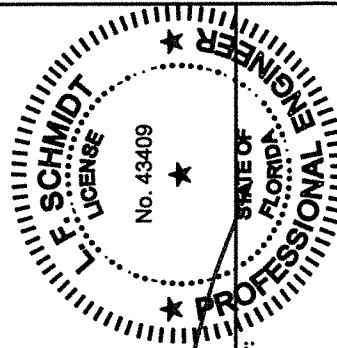
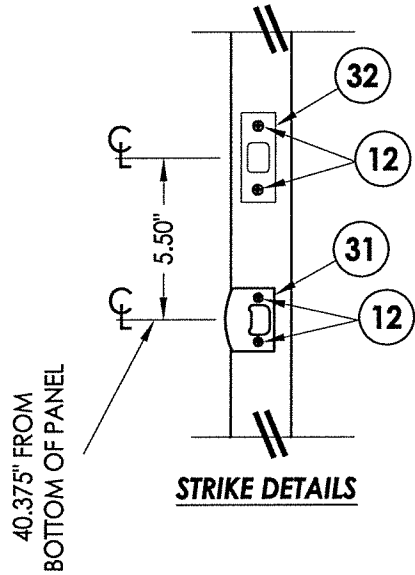
BUCK ANCHORING
Double Buck Shown
(Single Buck Similar)



FRAME ANCHORING
Stud Construction
Anchor Bracket



FRAME ANCHORING
Direct to Masonry, 2X Buck, 1X Buck
Thru-the-Frame Anchoring

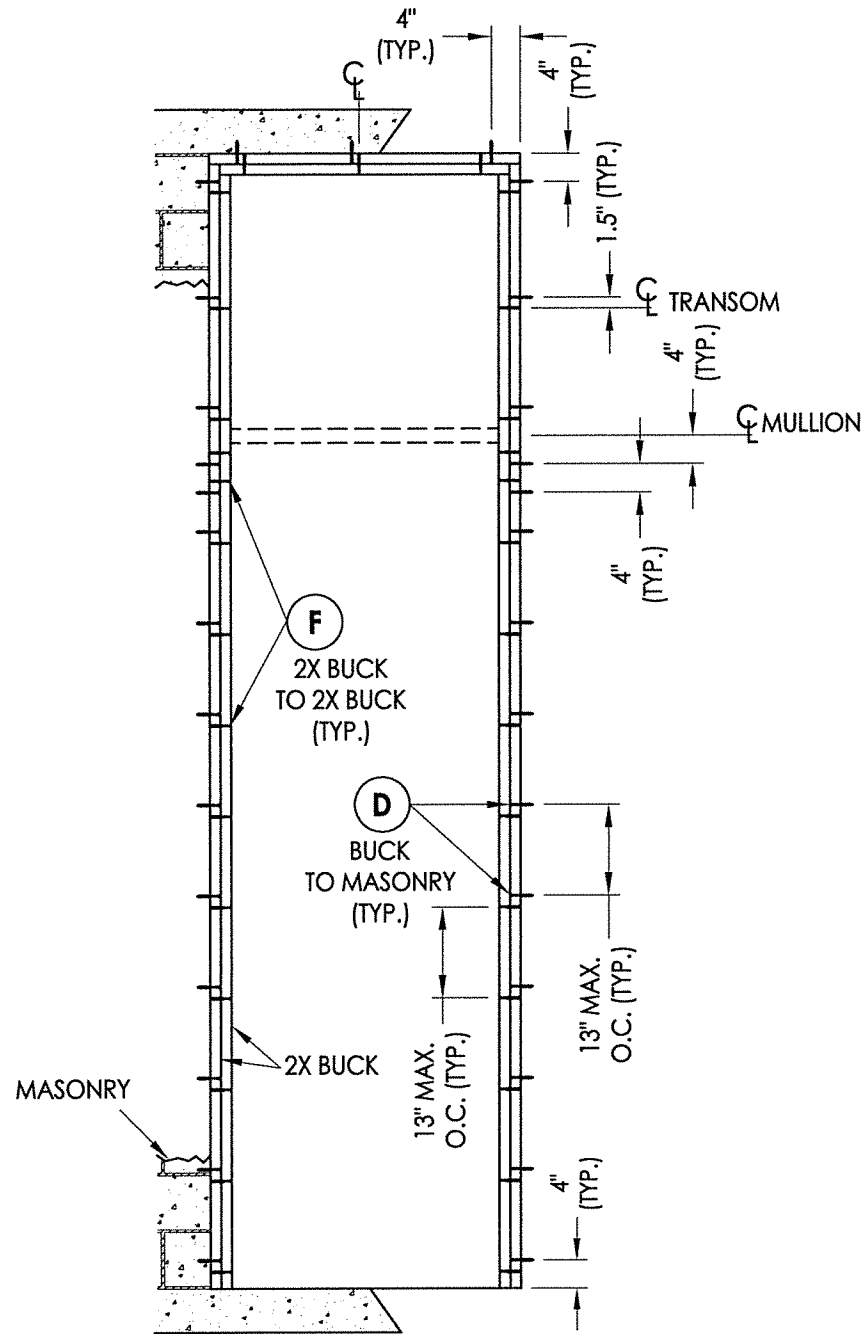


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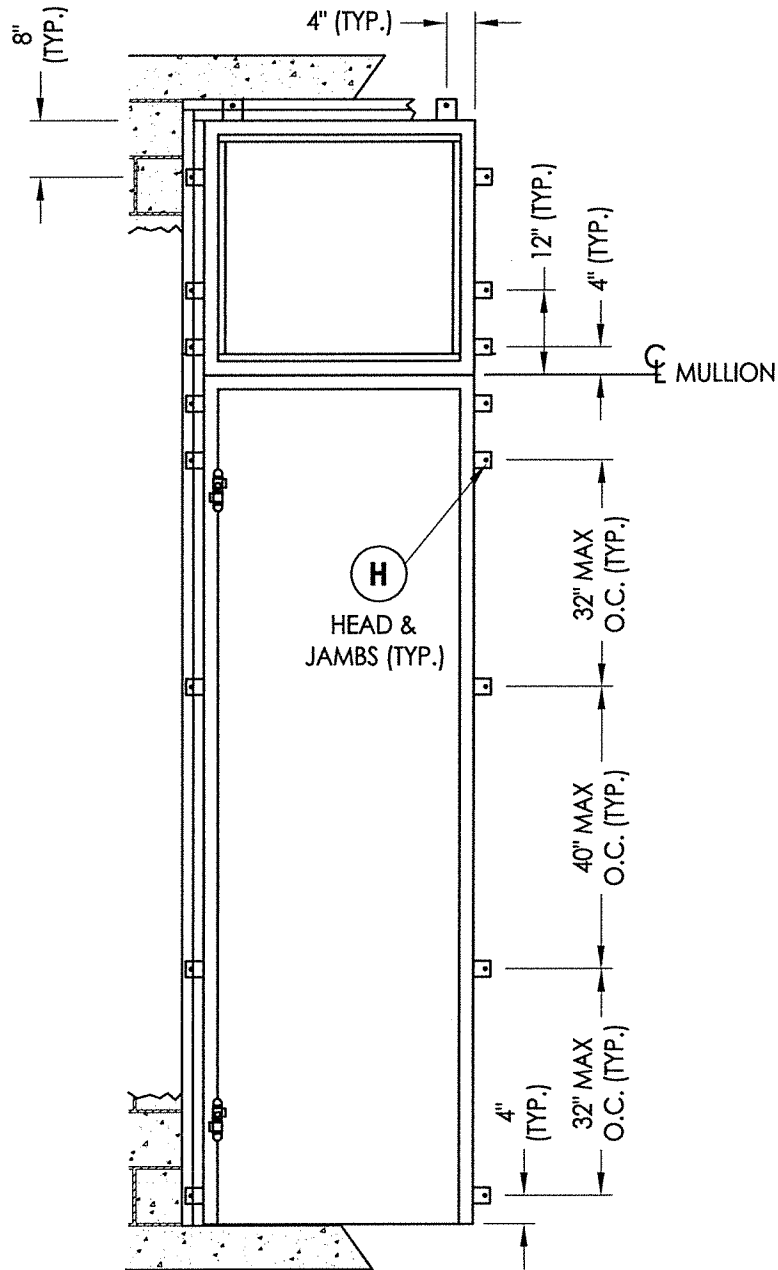
PROFESSIONAL ENGINEER
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STATE OF FLORIDA
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: IRON DOORS		PART OR ASSEMBLY: BUCK & FRAME ANCHORING (X)	
DATE: 8/06/20	SCALE: N.T.S.	DWG. BY: JK	CHK. BY: LFS
DRAWING NO.: FL-32651.6	SHEET 6 OF 8	NO. DATE	BY
1 10/14/20	UPDATE TO 7TH ED. (2020) FBC	RW	BY
REVISIONS			

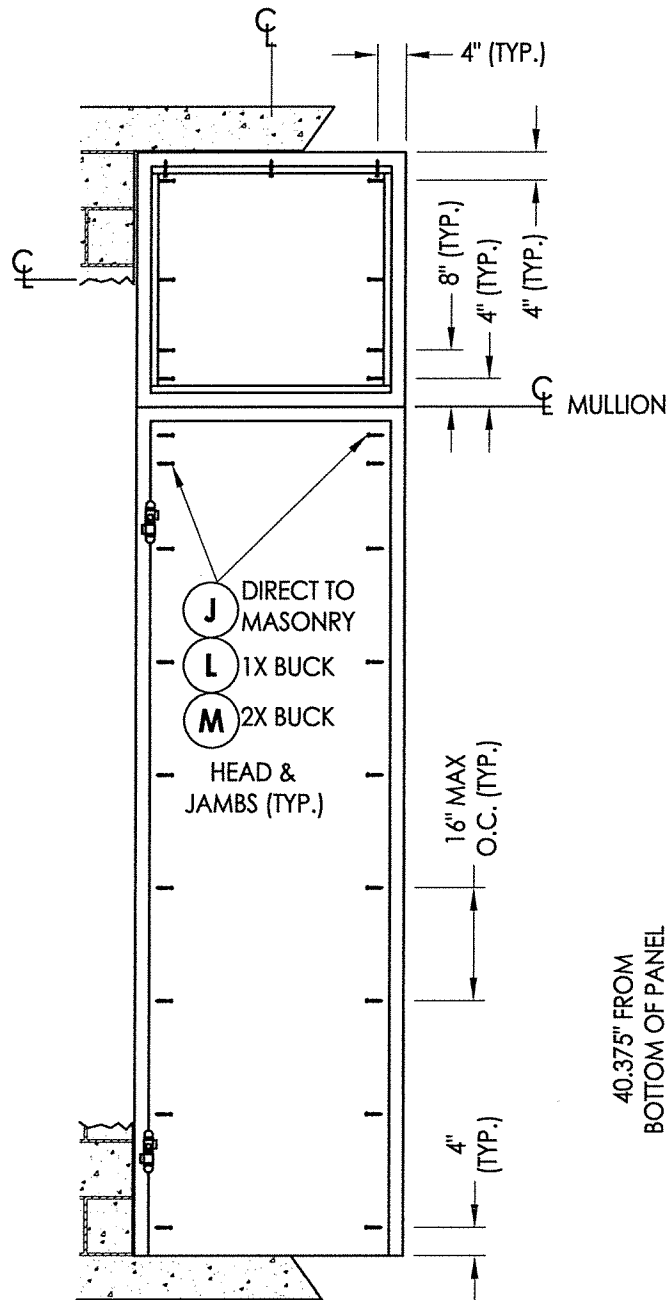
\\dc01\vwbc\Clients\Portal Elegance\A - Florida Product Approvals\FL-32651\C - Drawings\FL-32651 (2020)\FL-32651.5-8.dwg



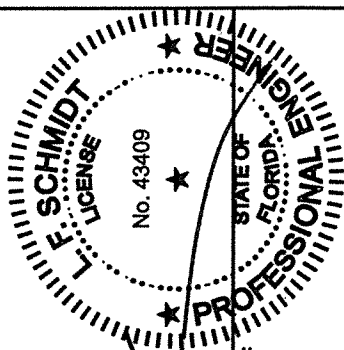
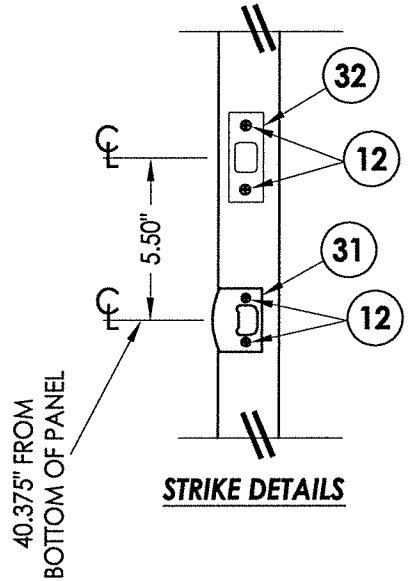
BUCK ANCHORING
Double Buck Shown
(Single Buck Similar)



FRAME ANCHORING
Stud Construction



FRAME ANCHORING
Direct to Masonry, 2X Buck, 1X Buck
Thru-the-Frame Anchoring



October 14, 2020
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PRODUCT: IRON DOORS		PART OR ASSEMBLY: BUCK & FRAME ANCHORING (O/X)	
NO.		DATE	
1		10/14/20	
DATE		BY	
FBC		RW	
UPDATE TO 7TH ED. (2020)		BY	
REVISIONS		BY	
DATE: 8/06/20		SCALE: N.T.S.	
DWG. BY: JK		CHK. BY: LFS	
DRAWING NO.: FL-32651.6		SHEET 7 OF 8	

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BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (SG >= 0.55)	WOOD
B	2X BUCK (SG >= 0.55)	WOOD
C	3/8" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	#10 X 3" PFH WOOD SCREW	STEEL
G	1/4" X 1-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
H	3/8" X 3" HWH LAG SCREW (2-1/2" MIN. EMBEDMENT)	STEEL
J	1/4" X 1-3/4" HWH DeWALT OR ITW CONCRETE SCREW	STEEL
L	1/4" X 3-1/4" HWH DeWALT OR ITW CONCRETE SCREW	STEEL
M	#12 X 2" PH WOOD SCREW (1-1/2" MIN. EMBEDMENT)	STEEL
2	TRANSOM SILL	STEEL
3	FRAME	STEEL
4	GLAZING BEAD	STEEL
5	#8 X 1-1/4" PFH SELF-DRILLING SMS	STEEL
7	WEATHERSTRIP GASKET (.5")	FOAM
8	WEATHERSTRIP GASKET (.67")	FOAM
9	DOOR HINGE	STEEL
12	#8 X 3/4" PFH SELF-DRILLING SMS	STEEL
15	ANCHORING BRACKET	STEEL
25	#10 X 1-1/2" HWH SELF-DRILLING SMS	STEEL
31	LATCH STRIKE PLATE	STEEL
32	DEADBOLT STRIKE PLATE	STEEL
35	ASTRAGAL	STEEL
36	THRESHOLD	STEEL
37	DOOR SWEEP	PVC
39	THRESHOLD	STEEL
40	DOOR PANEL	STEEL

All Door Component Steel: ASTM A36

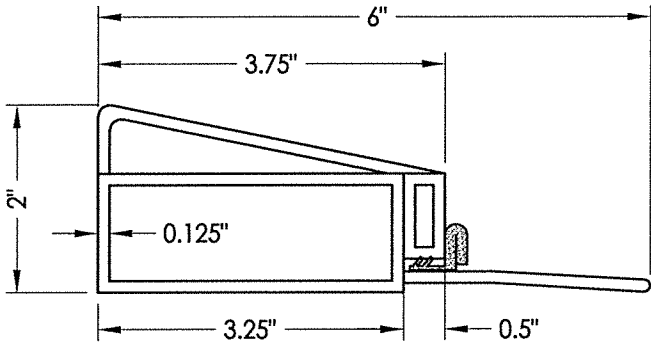
CONCRETE ANCHOR NOTES:

- Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
- Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON CENTER" dimension are not exceeded.
- Concrete anchor table:

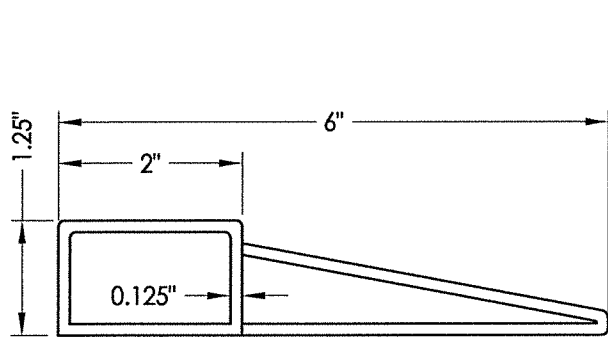
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2-1/2"	4"
DeWALT ULTRACON®	1/4"	1-1/4"	2-1/2"	4"

WOOD SCREW INSTALLATION NOTES:

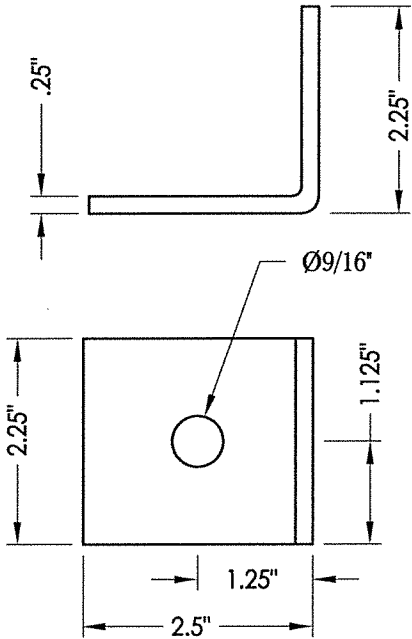
Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.



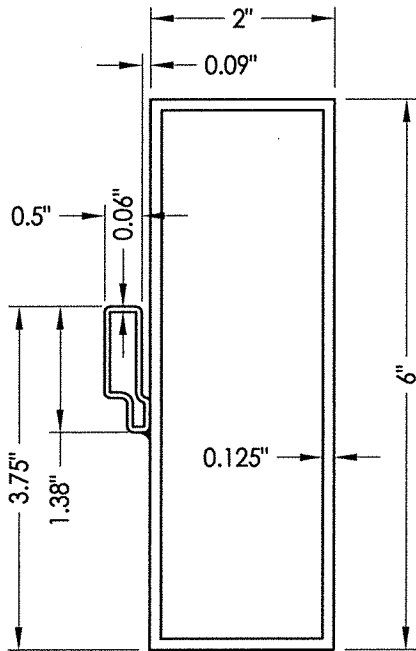
39 THRESHOLD
Outswing



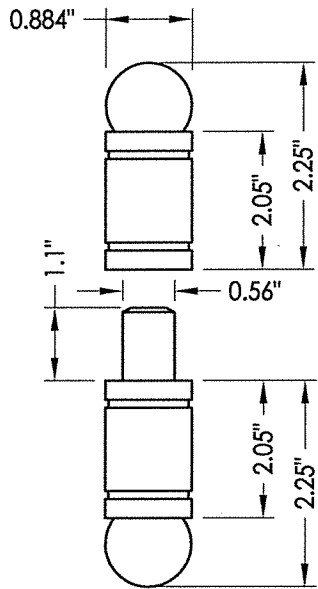
36 THRESHOLD
Inswing



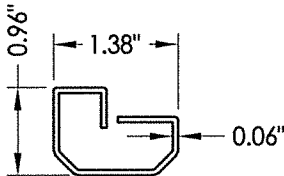
15 ANCHORING BRACKET



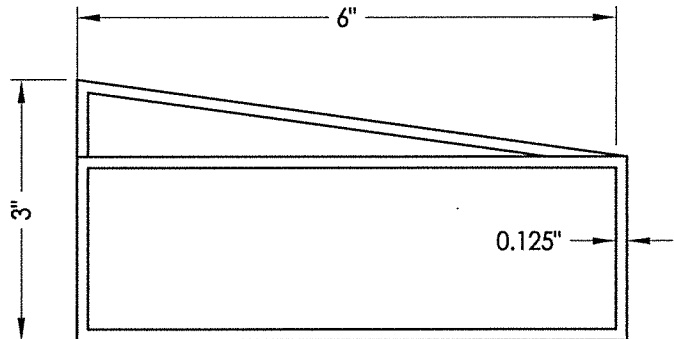
3 FRAME



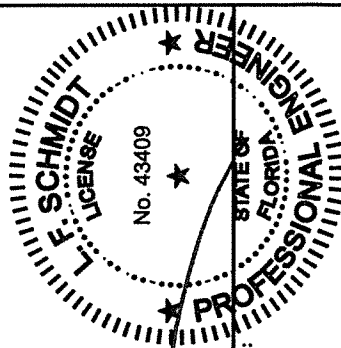
9 HINGE



35 ASTRAGAL



2 TRANSOM SILL



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IRON DOORS
PART OR ASSEMBLY:
BILL OF MATERIALS &
COMPONENTS

NO.	DATE	REVISIONS
1	10/14/20	UPDATE TO 7TH ED. (2020) FBC

DATE: 8/06/20

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-32651.6

SHEET 8 OF 8