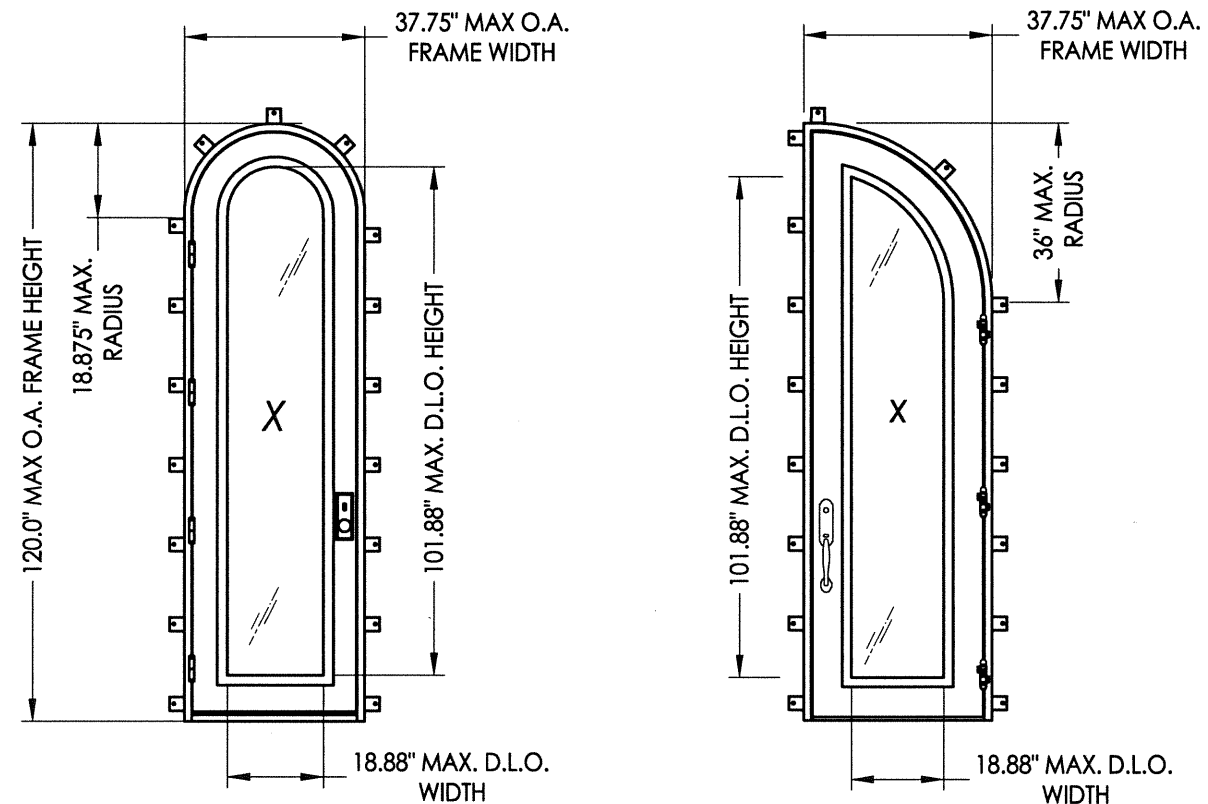


# Clark Hall Iron Doors

## GLAZED IRON SINGLE DOOR (Arch Top)

### IN SWING/OUT SWING "IMPACT"



#### GENERAL NOTES

1. This product has been evaluated and is in compliance with the 2010 Florida Building Code (FBC) structural requirements including the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in the "HVHZ", this product complies with Section 1626 of the Florida Building Code and does not require an impact resistant covering.
4. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
5. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
6. This product does not meet the water infiltration requirements for the "HVHZ" and 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.
7. All steel shall be protected as specified in Section 2220 of the FBC. In addition, all steel in contact with aluminum shall be protected as specified Section 2003.8.4 of the FBC.

TABLE OF CONTENTS

SHEET#	DESCRIPTION
1	Typical elevations, design pressures, & general notes
2	Door panel details
3	Glazing details
4	Horizontal & vertical cross sections
5	Buck & Frame anchoring
6	Components
7	Bill of materials & components

CONFIGURATION	OVERALL FRAME DIMENSION	DESIGN PRESSURE (PSF)			
		IN SWING		OUT SWING	
		POS.	NEG.	POS.	NEG.
X	37.75" x 120.0"	+65.0	-65.0	+65.0	-65.0

Documents Prepared By:

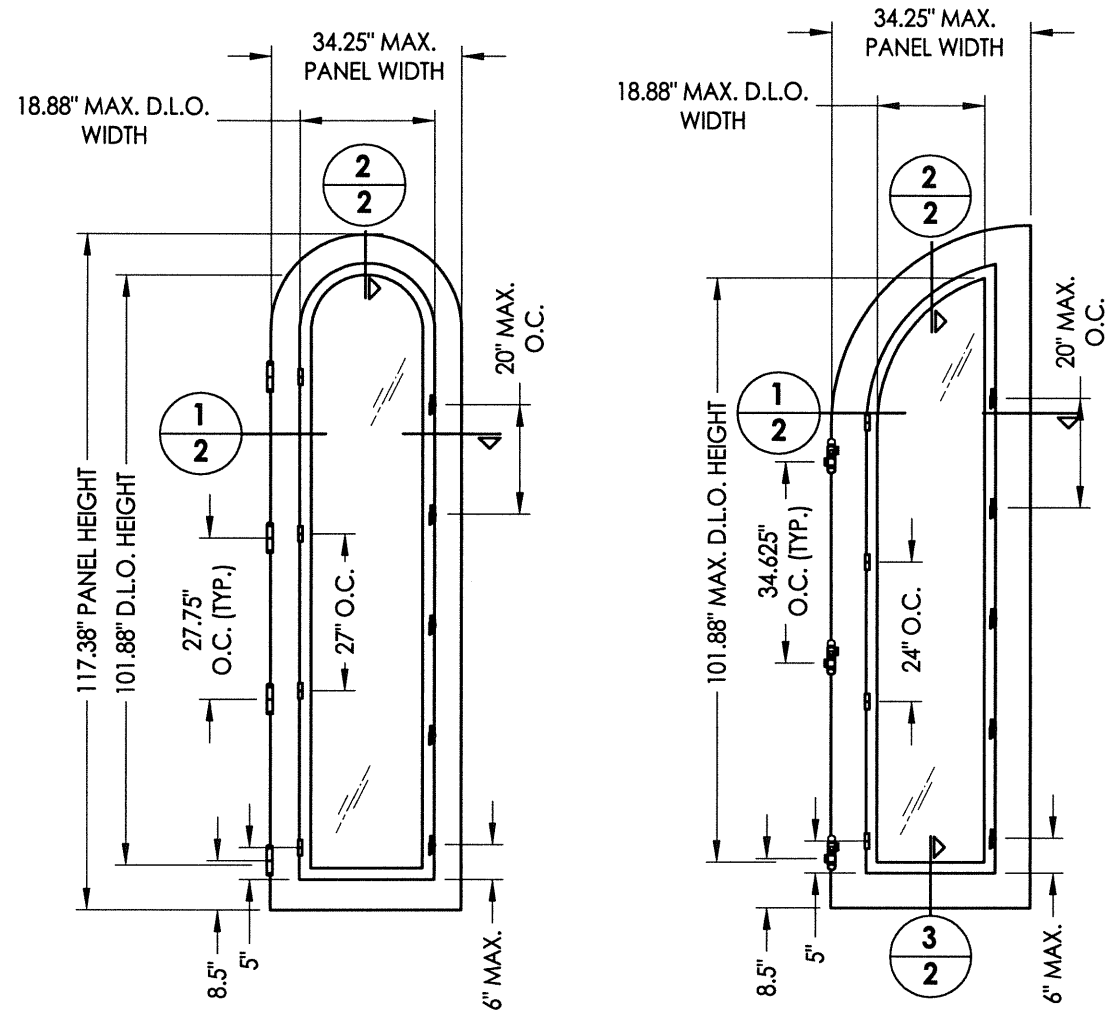
**RW**  
BUILDING CONSULTANTS, INC.  
P.O. Box 230 Vairico FL 33595  
Phone No.: 813.659.9197  
Florida Board of Professional Engineers  
Certificate Of Authorization No. 9813  
*LFS* 12.19.13  
Lyndon F. Schmidt, P.E. No. 43409

PRODUCT:  
CLARK HALL IRON DOORS

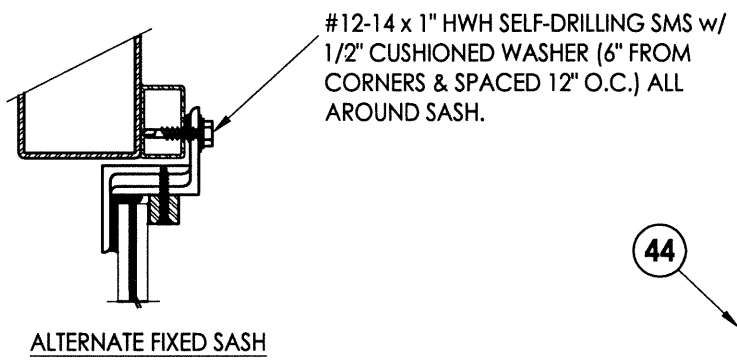
PART OR ASSEMBLY:  
TYPICAL ELEVATIONS, DESIGN PRESSURES & GENERAL NOTES

NO.	DATE	BY	REVISIONS

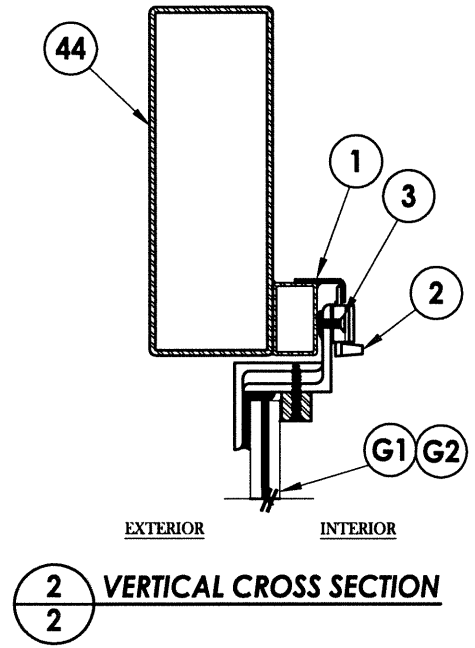
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SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: FL-16663.13  
SHEET 1 OF 7



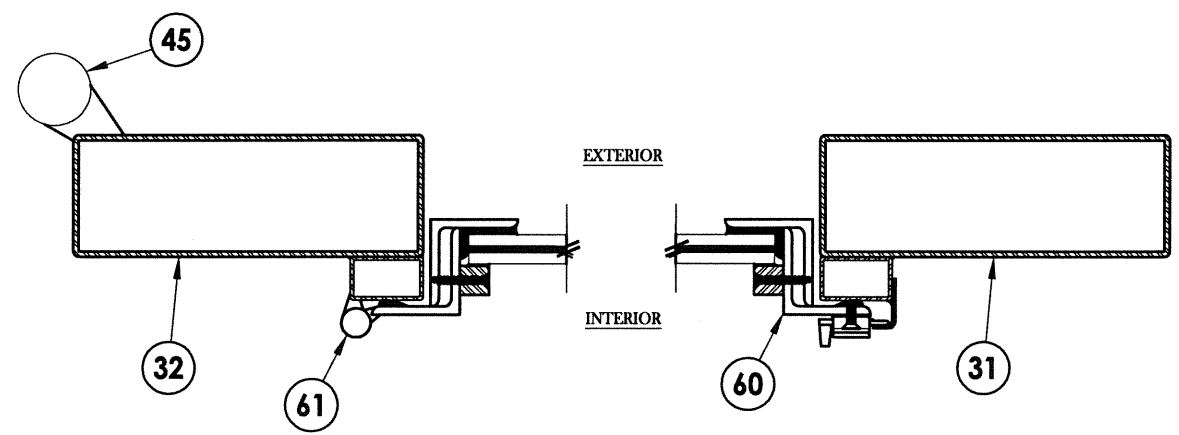
**30 DOOR PANEL**  
w/ Operable Sash



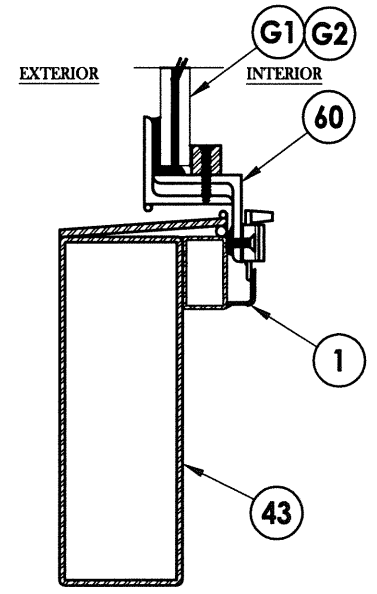
ALTERNATE FIXED SASH



**2 VERTICAL CROSS SECTION**



**1 HORIZONTAL CROSS SECTION**



**3 VERTICAL CROSS SECTION**

Documents Prepared By:

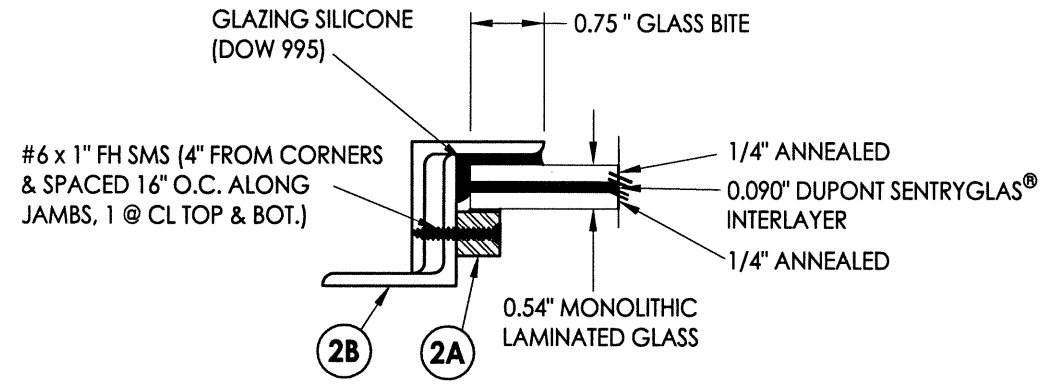
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Lyndon F. Schmidt, P.E. No. 43409

PRODUCT: CLARK HALL IRON DOORS

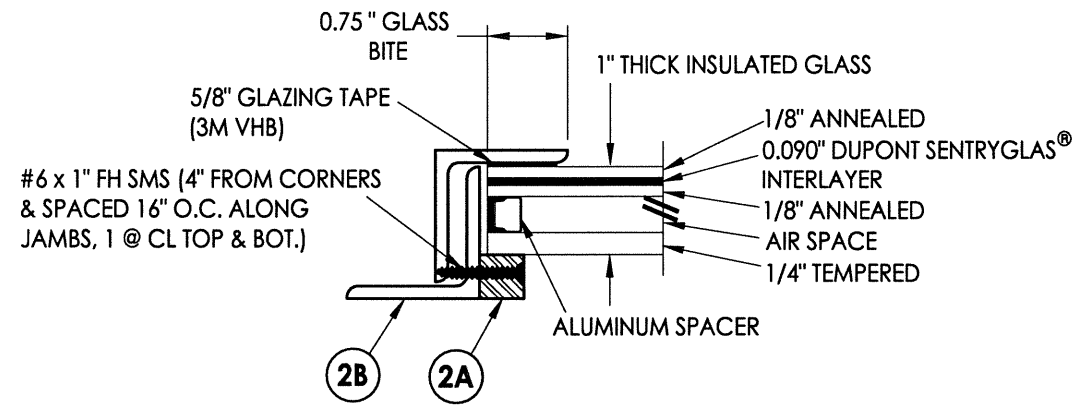
PART OR ASSEMBLY: DOOR PANEL DETAILS

NO.	DATE	REVISIONS	BY

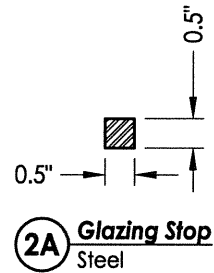
DATE: 11/8/13  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: FL-16663.13  
SHEET 2 OF 7



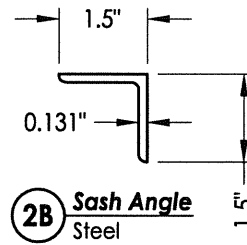
**G1** **GLAZING DETAIL**  
Operable Door/Sidelite



**G2** **GLAZING DETAIL**  
Operable Door/Sidelite

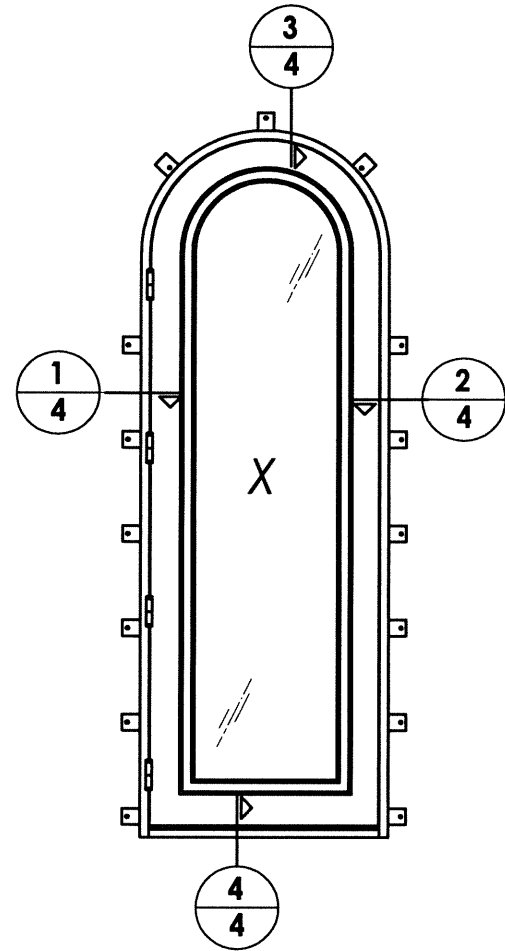


**2A** **Glazing Stop**  
Steel

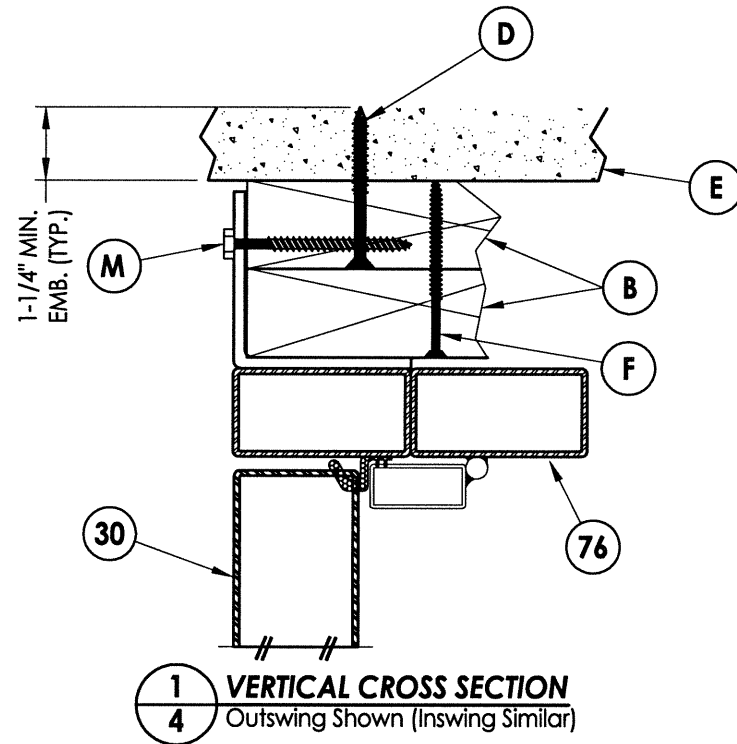


**2B** **Sash Angle**  
Steel

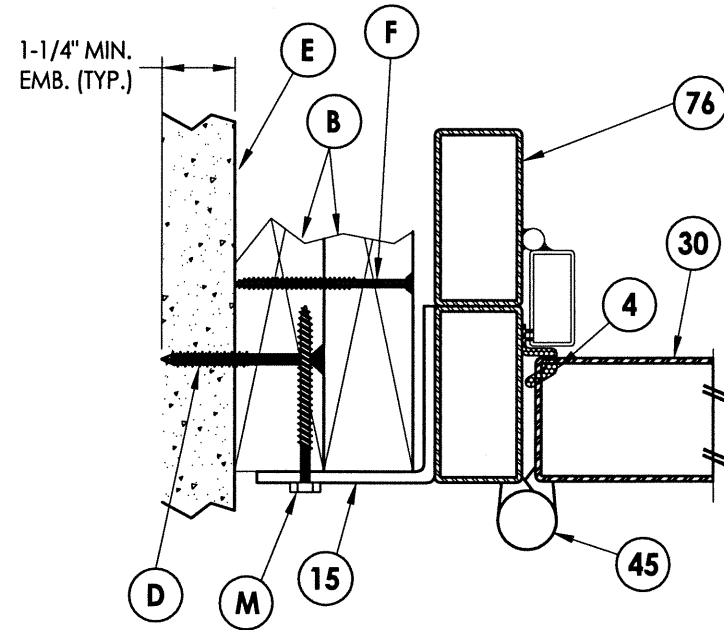
Documents Prepared By: <b>RW</b> BUILDING CONSULTANTS, INC. P.O. Box 230 Valrico FL 33595 Phone No.: 813.659.9197 Florida Board of Professional Engineers Certificate Of Authorization No. 9813 <i>LFS 12.17.13</i> Lyndon F. Schmidt, P.E. No. 43409		
PRODUCT: CLARK HALL IRON DOORS	PART OR ASSEMBLY: GLAZING DETAILS	
NO.	DATE	BY
REVISIONS		
DATE: 11/8/13		
SCALE: N.T.S.		
DWG. BY: JK		
CHK. BY: LFS		
DRAWING NO.: FL-16663.13		
SHEET 3 OF 7		



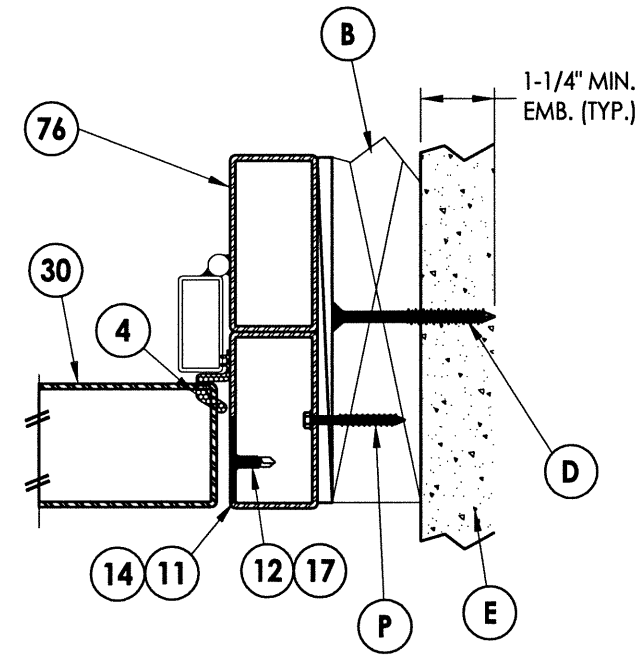
**ARCH TOP**



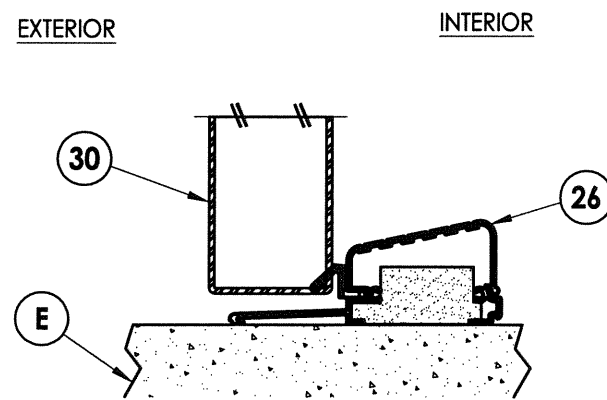
**1/4 VERTICAL CROSS SECTION**  
Outswing Shown (Inswing Similar)



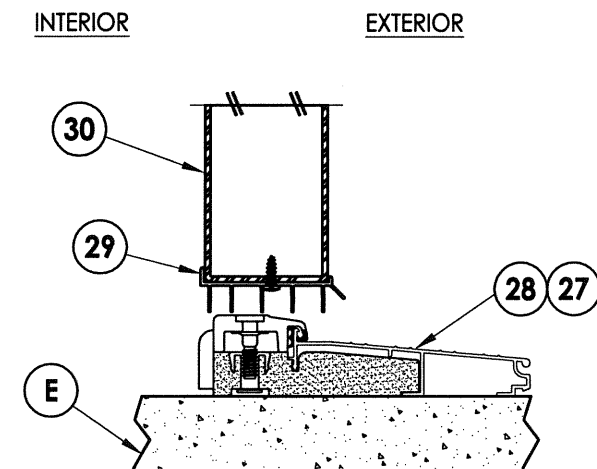
**1/4 HORIZONTAL CROSS SECTION**  
Outswing Shown (Inswing Similar)



**2/4 HORIZONTAL CROSS SECTION**  
Shown w/ Optional Through the Frame Anchoring



**3/4 VERTICAL CROSS SECTION**  
Outswing Shown



**4/4 VERTICAL CROSS SECTION**  
Inswing Sill

**LOCK HARDWARE TABLE**

MANUFACTURER	MODEL
EMTEK	TUBULAR ENTRY SET (SHERIDAN - 451812)
SUN VALLEY BRONZE ACCURATE LOCK & HARDWARE	LEVER/KNOB ENTRY SET (RIDGE: CS-421PLD) MORTISE LOCK
ASHLEY NORTON	TUBULAR ENTRY SET (SQTUB w/ 900 SERIES KNOB)
ASHLEY NORTON ACCURATE LOCK & HARDWARE	MORTISE LOCK (SQMOR w/ 900 SERIES KNOB) MORTISE LOCK

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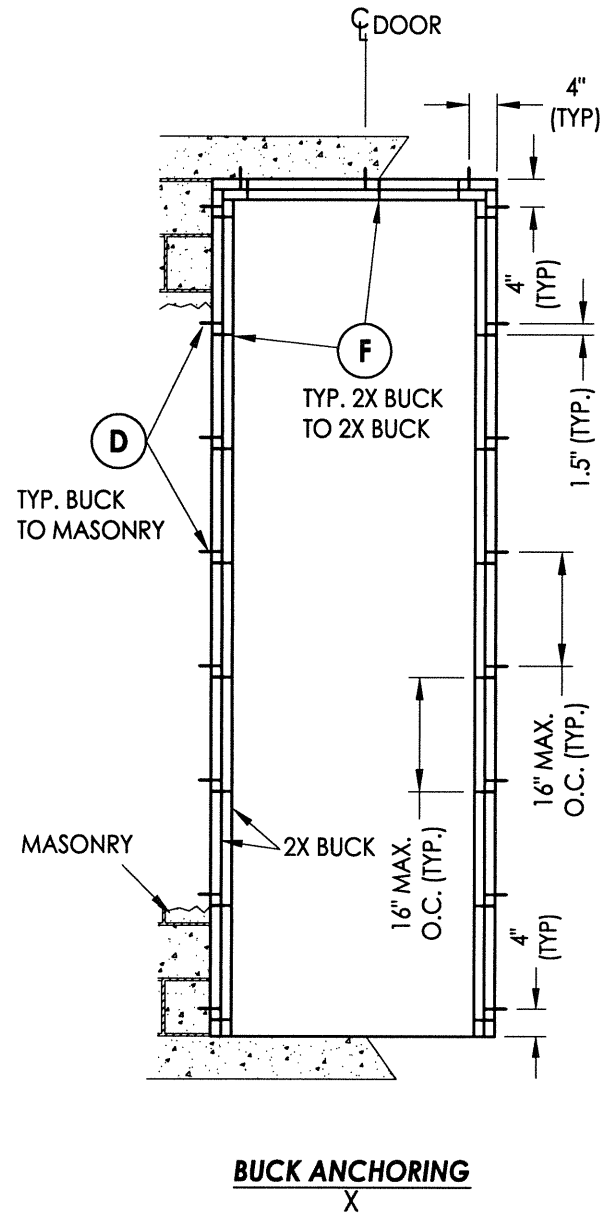
PRODUCT: CLARK HALL IRON DOORS  
PART OR ASSEMBLY: HORIZONTAL & VERTICAL CROSS SECTIONS

NO.	DATE	BY

REVISIONS

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CHK. BY: LFS  
DRAWING NO.: FL-16663.13  
SHEET 4 OF 7

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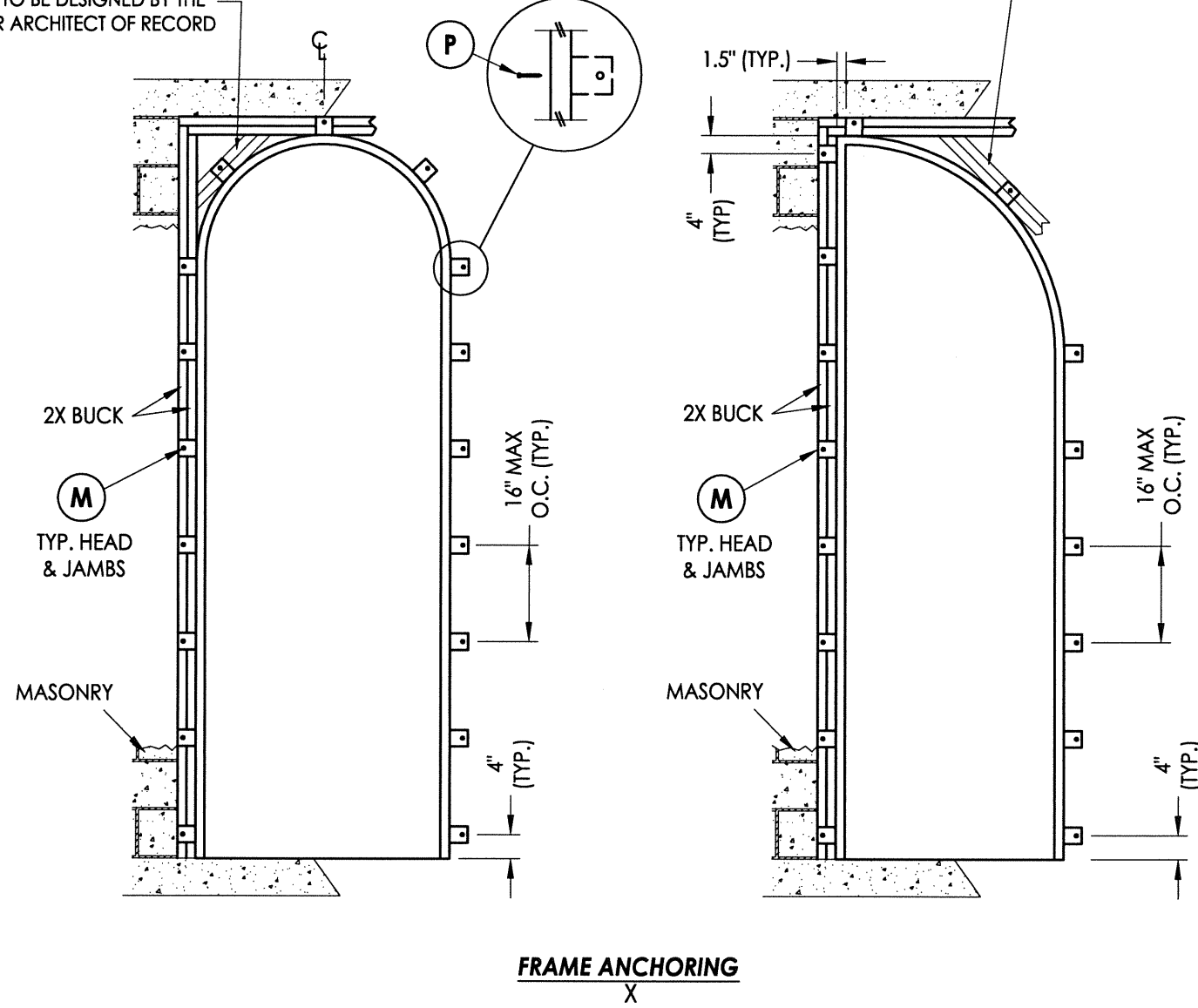


**BUCK ANCHORING**  
X

**ALTERNATE ANCHORING**  
THROUGH THE FRAME  
SUBSTITUTE ANCHOR @ EACH BRACKET

2X FRAMING TO BE DESIGNED BY THE ENGINEER OR ARCHITECT OF RECORD

2X FRAMING TO BE DESIGNED BY THE ENGINEER OR ARCHITECT OF RECORD



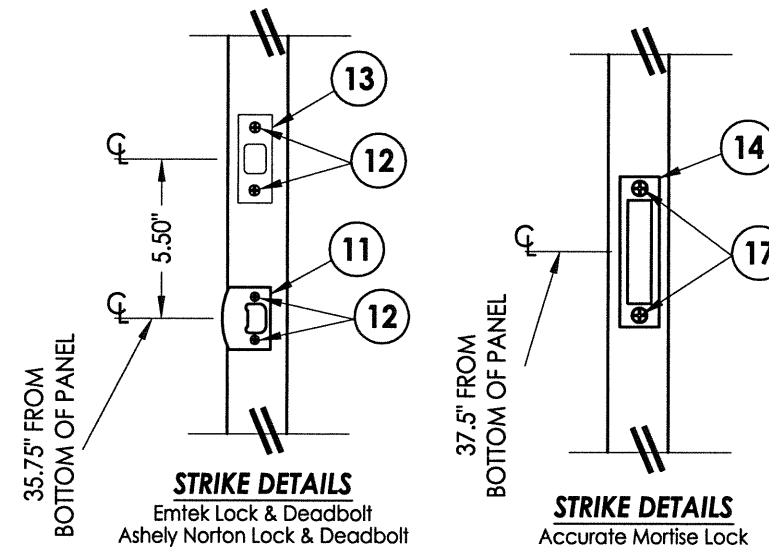
**FRAME ANCHORING**  
X

NOTE FOR THROUGH THE FRAME ANCHORING ONLY ONE 2X BUCK IS REQUIRED, ANCHORED AS SHOWN.

**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"
ELCO ULTRACON®	1/4"	1-1/4"	2-1/2"	4"



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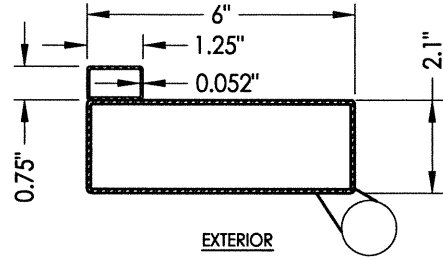
Florida Board of Professional Engineers  
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12.7.13  
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PRODUCT: CLARK HALL IRON DOORS  
PART OR ASSEMBLY: BUCK & FRAME ANCHORING

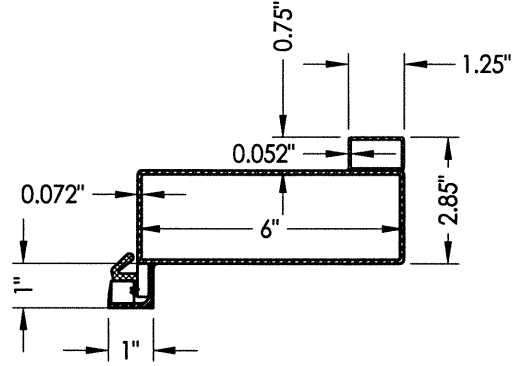
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SHEET 5 OF 7

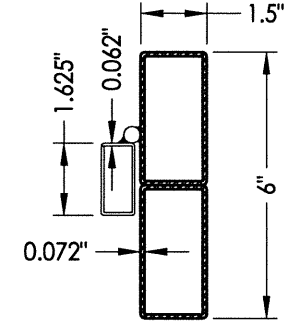
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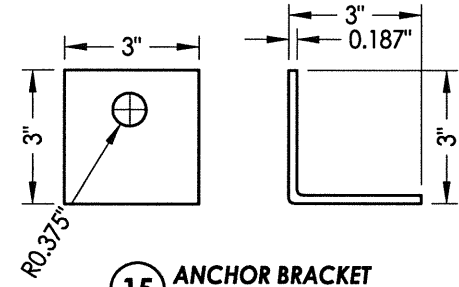
**31** Full Lite Door Panel  
Active Hinge Stile



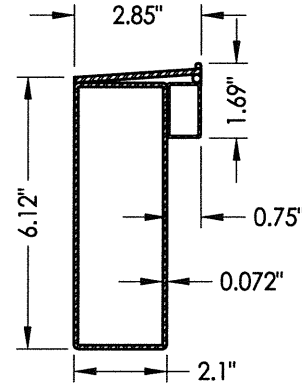
**32** Full Lite Door Panel  
Active Latch Stile



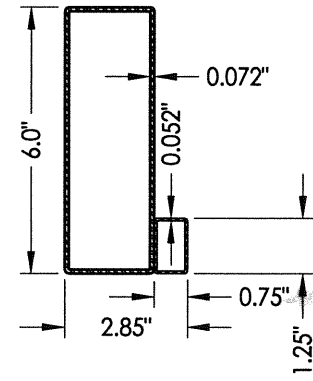
**76** Jamb



**15** ANCHOR BRACKET



**43** Full Lite Door Panel  
Bottom Rail



**44** Full Lite Door Panel  
Top Rail

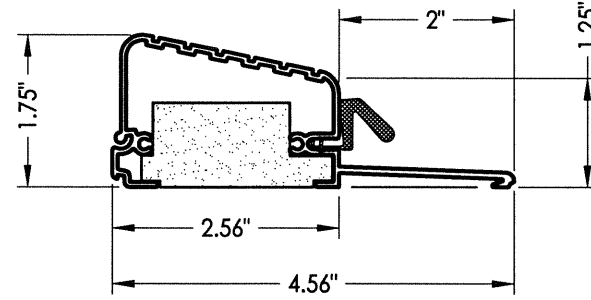
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DWG. BY: JK  
CHK. BY: LFS  
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FL-16663.13  
SHEET 6 OF 7

PRODUCT: CLARK HALL IRON DOORS  
PART OR ASSEMBLY: COMPONENTS

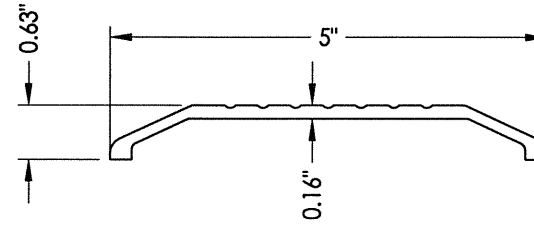
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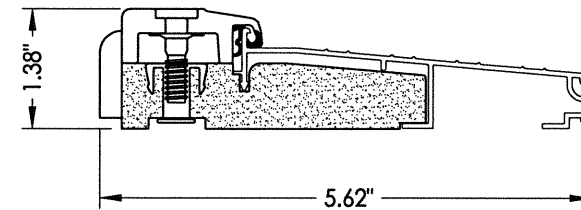
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
B	2X BUCK SG >= 0.55	WOOD
D	1/4" X 2-3/4" PFH ELCO OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	#10 X 3" PFH WOOD SCREW	STEEL
G	5/16" X 2-1/4" HH ELCO OR ITW CONCRETE SCREW	STEEL
H	5/16" X 2-1/4" PFH ELCO OR ITW CONCRETE SCREW	STEEL
J	3/16" X 2-1/4" PFH ITW CONCRETE SCREW	STEEL
L	5/16-18 X 1-1/2" HH BOLT (GR. 5) w/ LOCK WASHER & NUT	STEEL
M	3/8" X 3" HH LAG SCREW	STEEL
P	#12 X 1-1/2" HWH SMS	STEEL
1	SASH LATCH STRIKE	STEEL
2	SASH LATCH	STEEL
3	#8 X 1/4" PFH SMS	STEEL
4	WEATHERSTRIP (QLON)	FOAM
11	LATCH STRIKE PLATE	STEEL
12	#8 X 3/4" PFH SMS	STEEL
13	DEADBOLT STRIKE PLATE	STEEL
14	MORTISE LOCK STRIKE PLATE	STEEL
15	ANCHORING BRACKET	STEEL
17	#12-24 X 13/16" PFH COMBINATION WOOD/MACHINE SCREW	STEEL
20	FLIP BOLT	STEEL
25	#6 X 1/2" PWH SELF TAPPING SMS	STEEL
26	OUTSWING THRESHOLD (DLP)	ALUM/COMP
27	ADA THRESHOLD	ALUM
28	INSWING THRESHOLD (AFCO)	ALUM/COMP
29	DOOR SWEEP (w/ #8 x 3/4" SMS)	-
30	DOOR PANEL (FULL LITE)	-
31	HINGE STILE (ACTIVE DOOR)	ASTM A36 STEEL
32	LATCH STILE (ACTIVE DOOR)	ASTM A36 STEEL
43	BOTTOM RAIL (FULL LITE)	ASTM A36 STEEL
44	TOP RAIL (FULL LITE)	ASTM A36 STEEL
45	DOOR PANEL HINGE	STEEL
60	SASH LITE FRAME	STEEL
61	SASH HINGE	STEEL
76	JAMB	ASTM A36 STEEL



**26** OUTSWING THRESHOLD  
DLP



**27** ADA THRESHOLD



**28** INSWING THRESHOLD  
AFCO

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PRODUCT: CLARK HALL IRON DOORS  
 PART OR ASSEMBLY: BILL OF MATERIALS & COMPONENTS

NO.	DATE	BY	REVISIONS

DATE: 10/30/13  
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 SHEET 7 OF 7