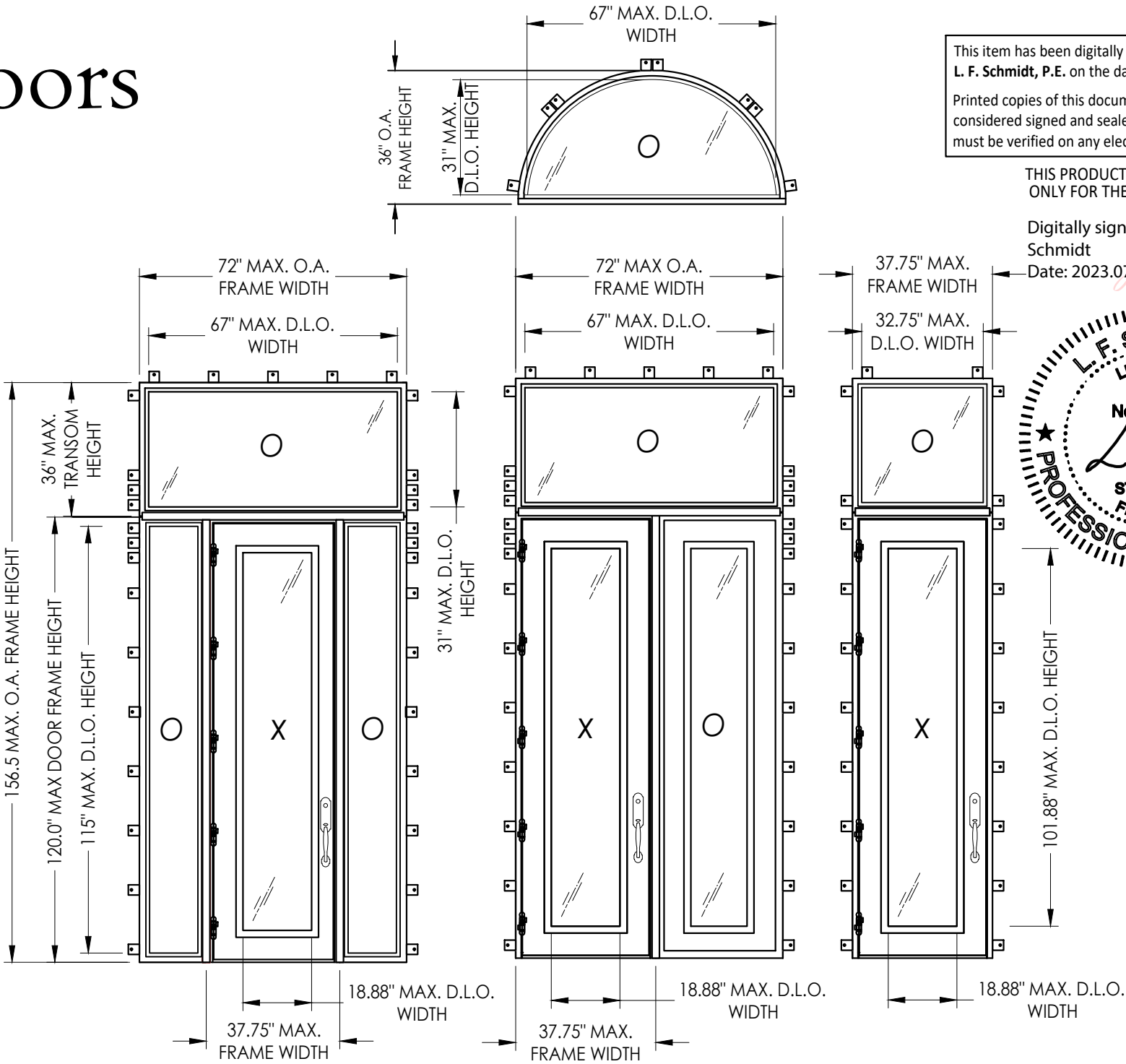


Clark Hall Iron Doors

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

GENERAL NOTES

- This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements excluding 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 areas requiring wind borne debris protection this product is required to be protected with an impact resistant covering that complies with FBC Sections 1609.1.2 & R301.2.1.2.
- 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.



This item has been digitally signed and sealed by
L. F. Schmidt, P.E. on the date adjacent to the seal.
Printed copies of this document are not
considered signed and sealed and the signature
must be verified on any electronic copies.

THIS PRODUCT APPROVAL IS VALID
ONLY FOR THE STATE OF FLORIDA

Digitally signed by Lyndon F
Schmidt
Date: 2023.07.05 08:23:31 -04'00'

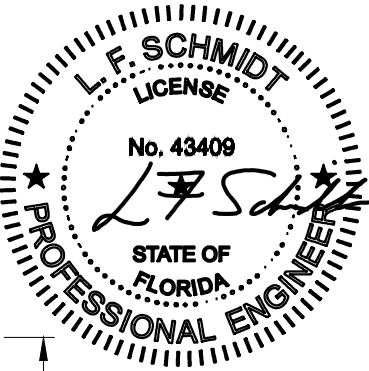


TABLE OF CONTENTS	
SHEET#	DESCRIPTION
1	Typical elevations, design pressures, & general notes
2	Door panel details
3	Sidelite panel details
4	Glazing details
5	Elevations
6	Horizontal cross sections
7	Vertical cross sections
8	Buck anchoring
9	Frame anchoring
10	Frame anchoring
11	Components
12	Bill of materials & components

CONFIGURATION	OVERALL FRAME DIMENSION	DESIGN PRESSURE (PSF)			
		INSWING		OUTSWING	
		POS.	NEG.	POS.	NEG.
O X	37.75" x 156.5"	+65.0	-65.0	+65.0	-65.0
O OX or XO	72.0" x 156.5"	+65.0	-65.0	+65.0	-65.0
O OXO	72.0" x 156.5"	+65.0	-65.0	+65.0	-65.0

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

PRODUCT:
CLARK HALL IRON DOORS

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

REVISIONS

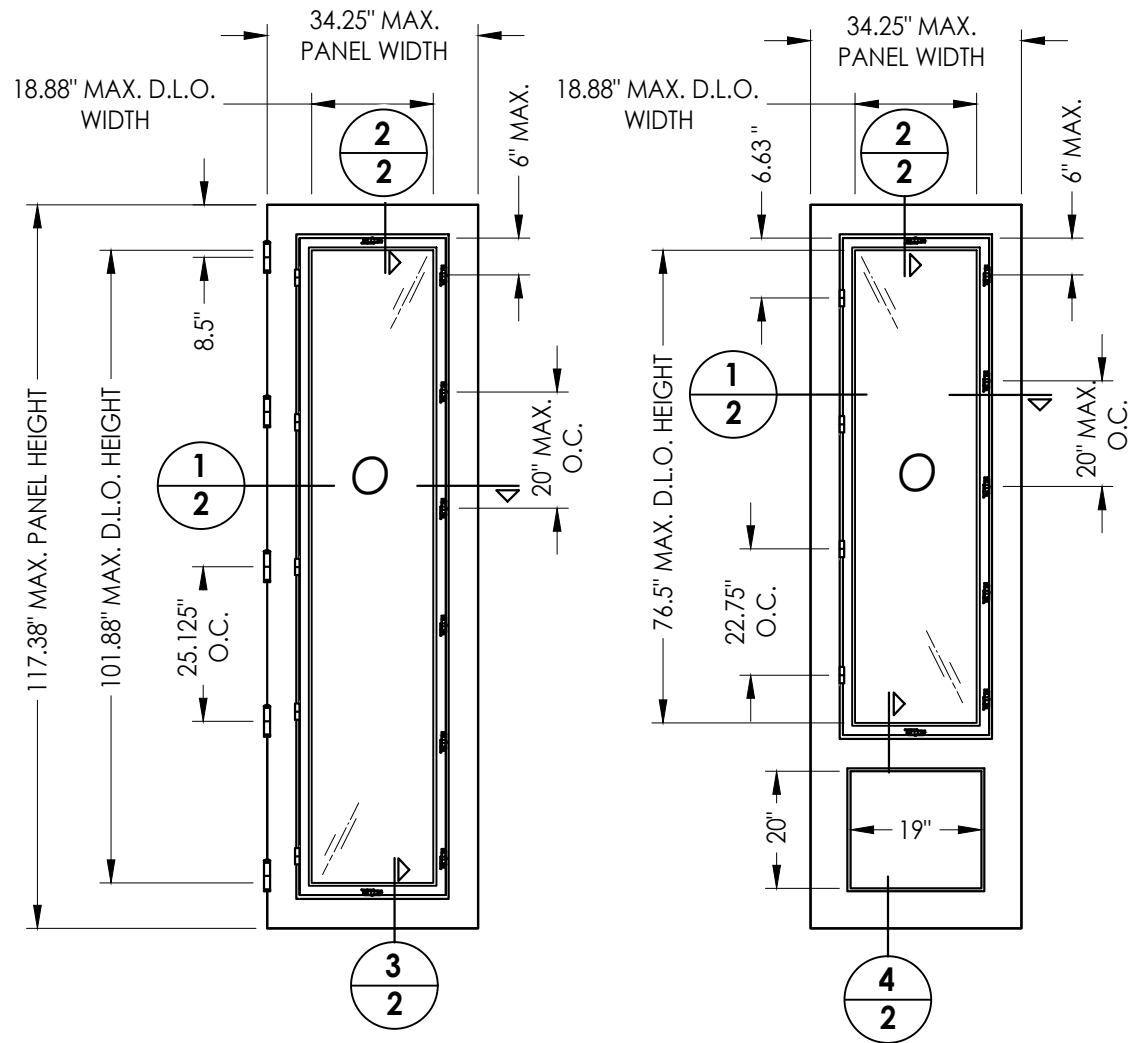
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2	8/30/17	UPDATE TO 6TH ED. (2017)	FBC	LFS
1	8/17/15	UPDATE TO 5TH ED. (2014)	FBC	LFS
NO.	DATE			BY

DATE: 11/8/13
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-16663.3
SHEET 1 OF 12

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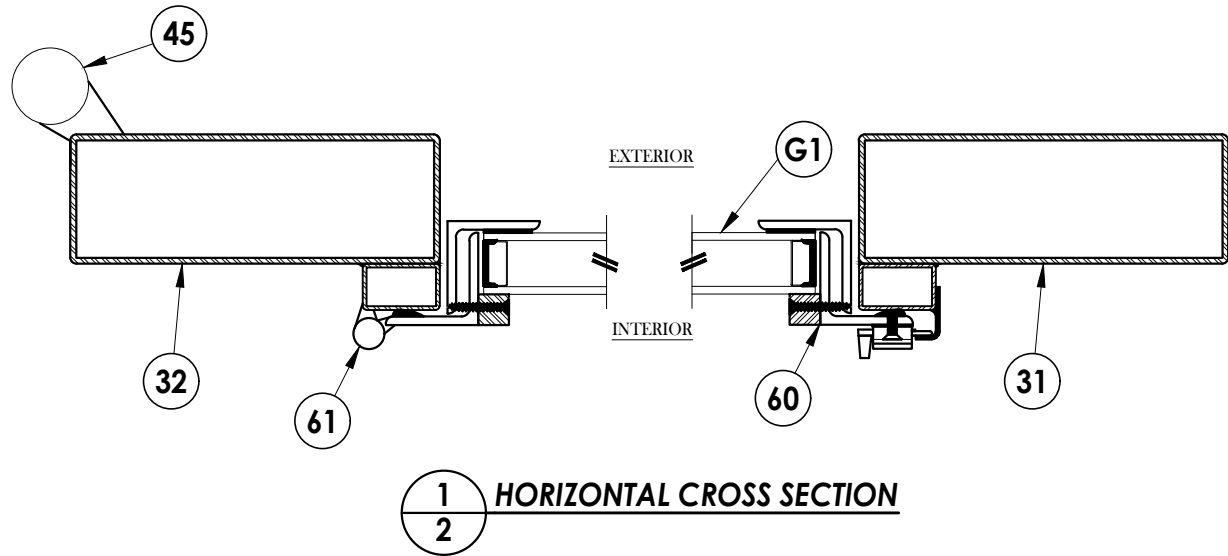
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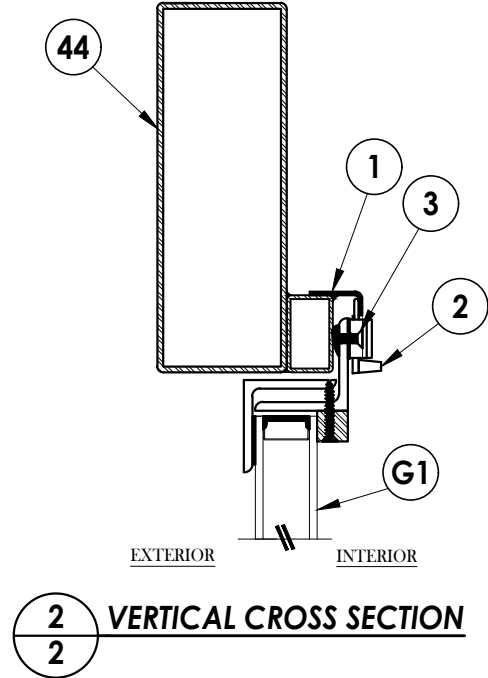


30 DOOR PANEL
w/ Operable Sash

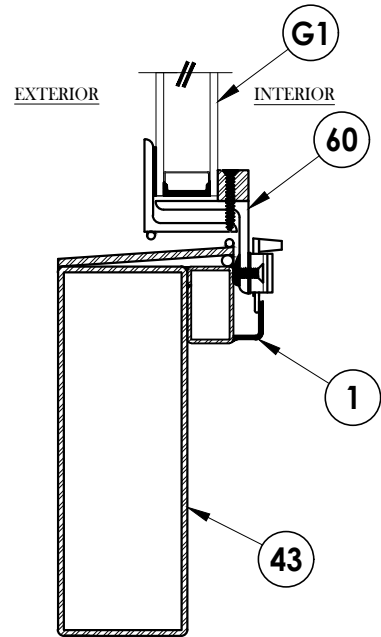
40 3/4 LITE DOOR PANEL
w/ Operable Sash



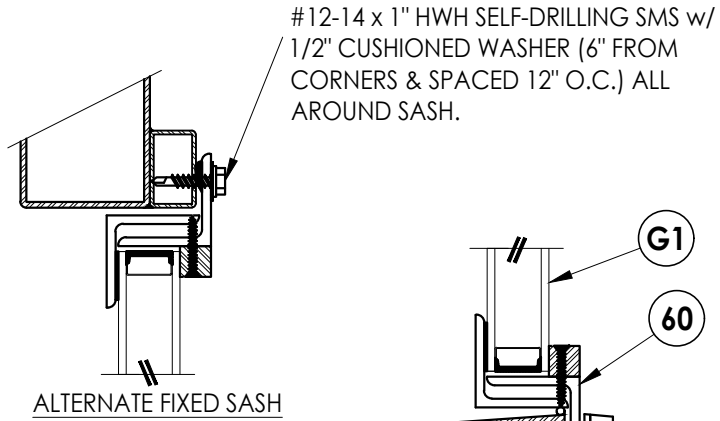
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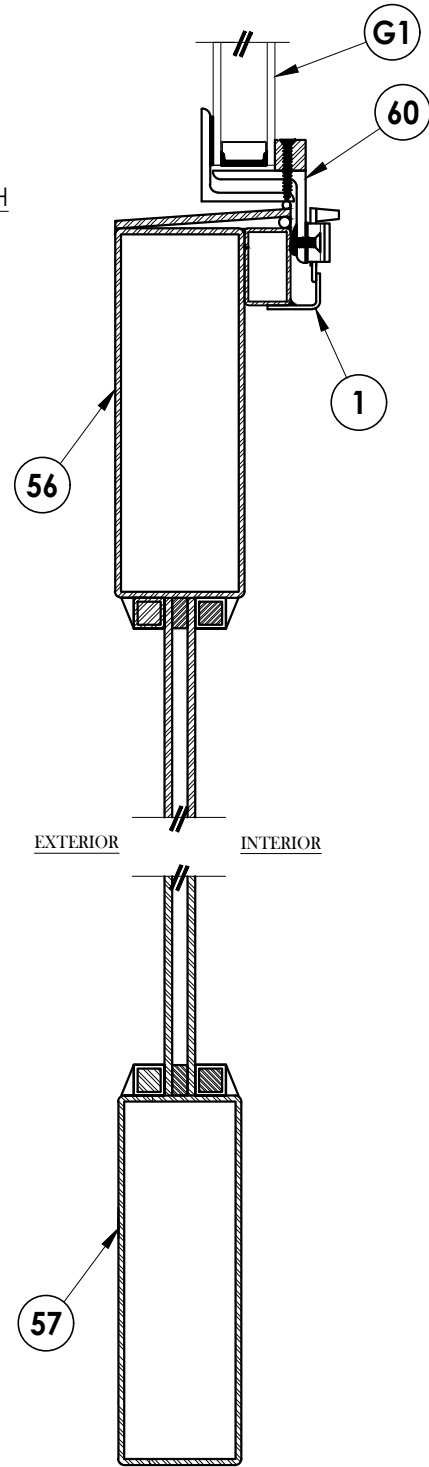
2 VERTICAL CROSS SECTION



3 VERTICAL CROSS SECTION



ALTERNATE FIXED SASH



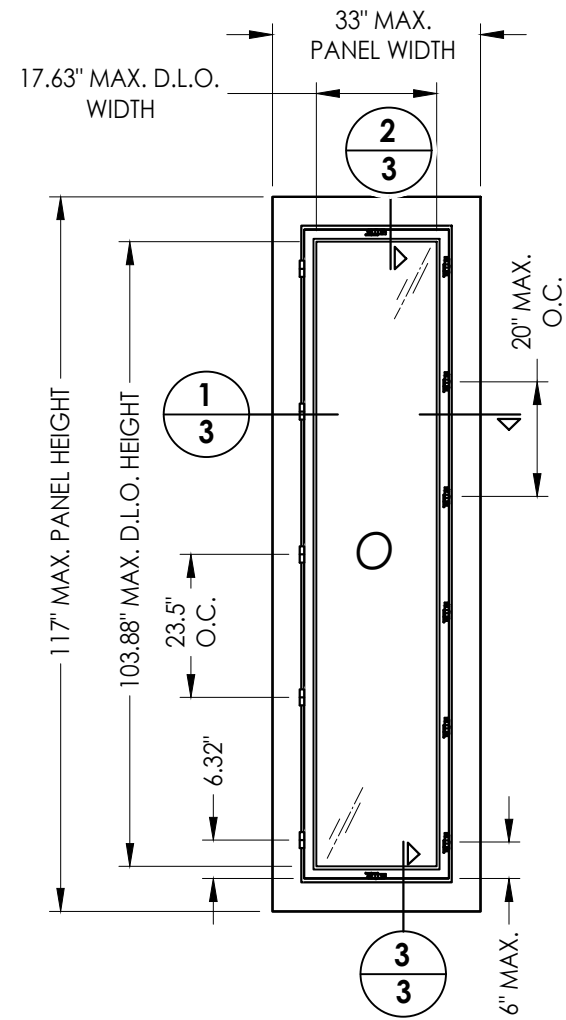
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PRODUCT:		CLARK HALL IRON DOORS	
PART OR ASSEMBLY:		DOOR PANEL DETAILS	
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3	9/09/20	UPDATE TO 7TH ED. (2020) FBC	LFS
2	8/30/17	UPDATE TO 6TH ED. (2017) FBC	LFS
1	8/17/15	UPDATE TO 5TH ED. (2014) FBC	LFS
DATE		11/8/13	
SCALE:		N.T.S.	
DWG. BY:		JK	
CHK. BY:		LFS	
DRAWING NO.:		FL-16663.3	
SHEET		2 OF 12	

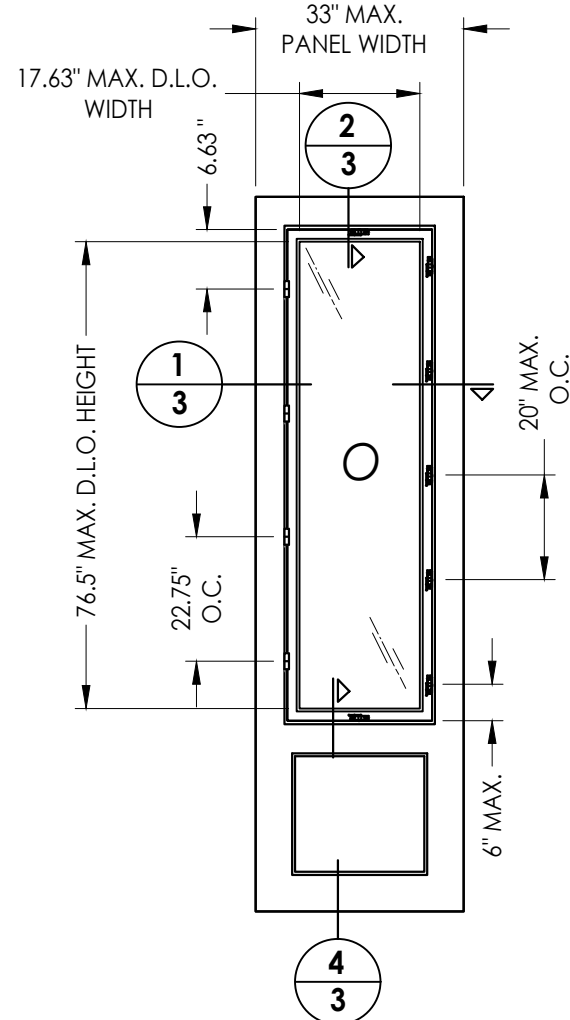
Documents Prepared By:
Lyndon F. Schmidt
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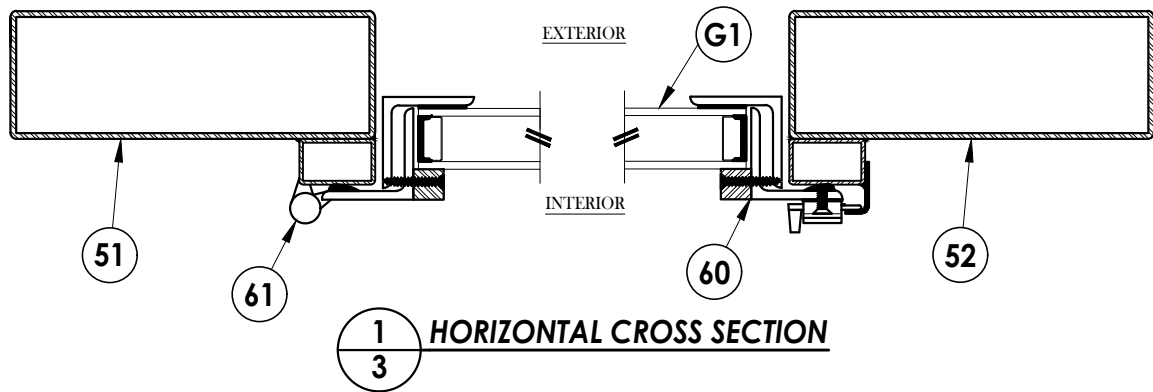
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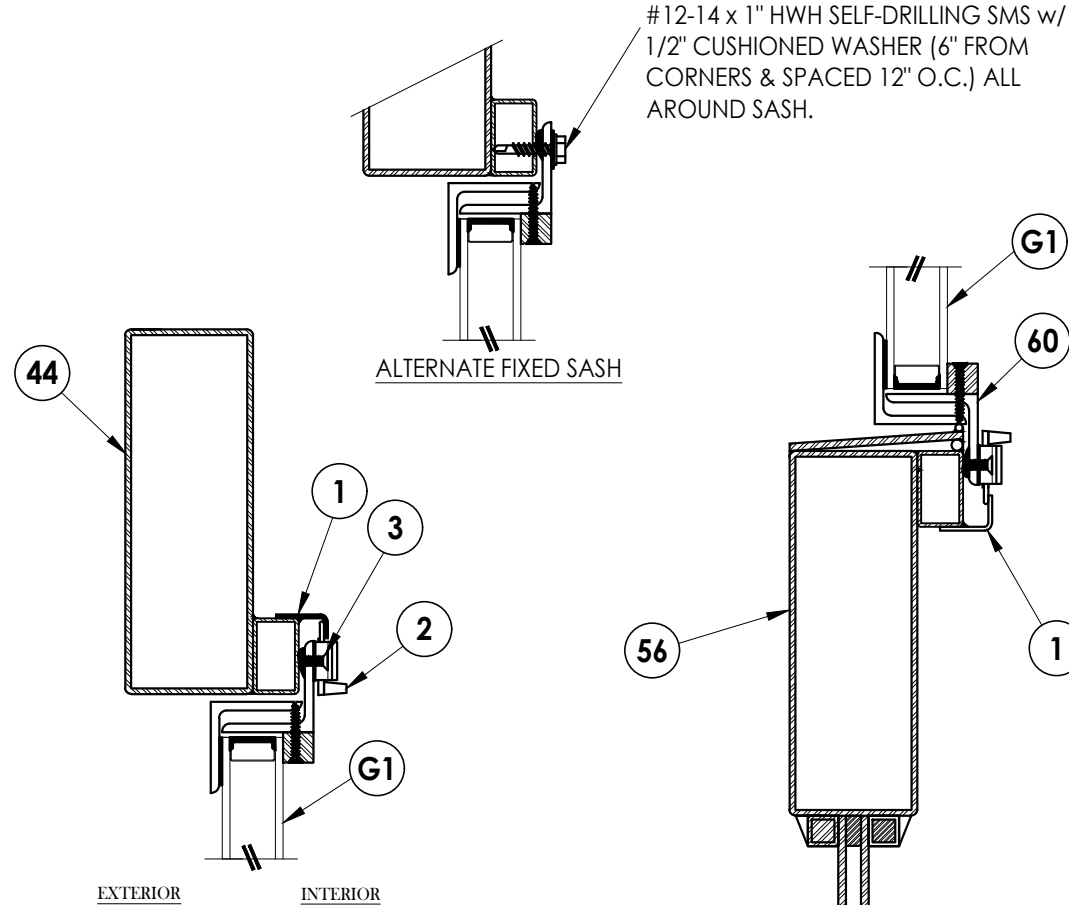
50 SIDELITE PANEL
w/ Operable Sash



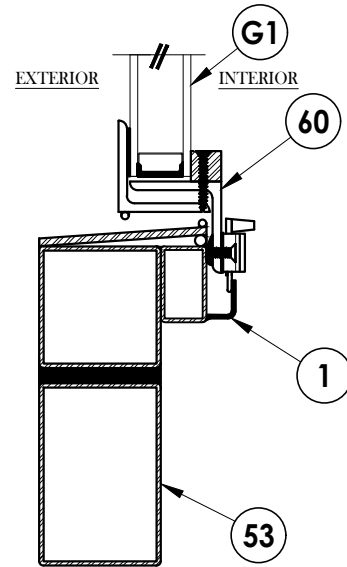
55 3/4 SIDELITE PANEL
w/ Operable Sash & Fixed Panel



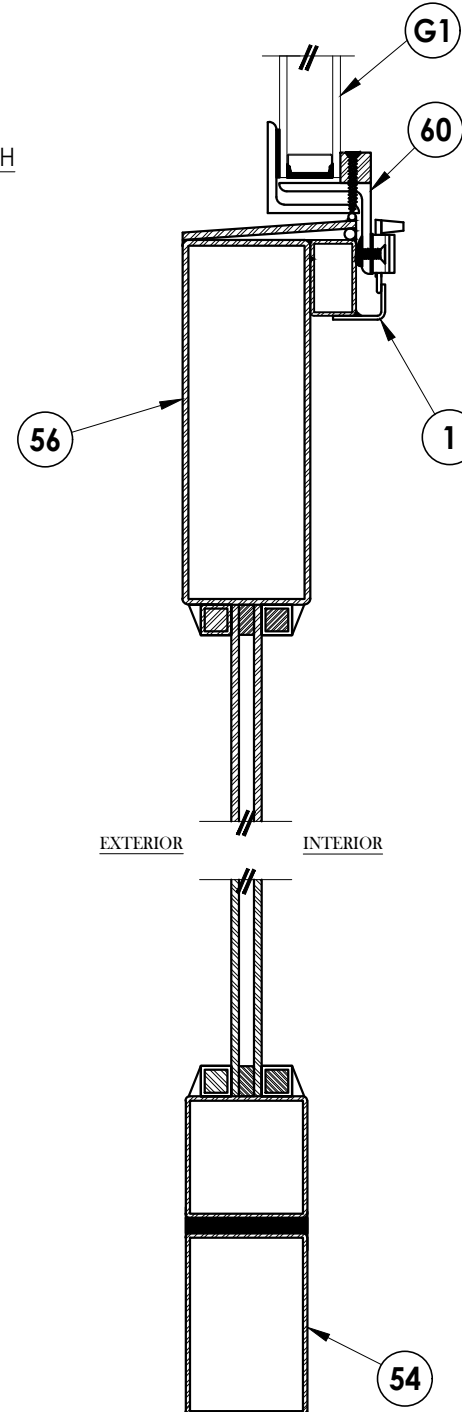
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2 VERTICAL CROSS SECTION



3 VERTICAL CROSS SECTION



4 VERTICAL CROSS SECTION

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PRODUCT:
CLARK HALL IRON DOORS

PART OR ASSEMBLY:
SIDELITE PANEL DETAILS

NO.	DATE	REVISIONS
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3	9/09/20	UPDATE TO 7TH ED. (2020) FBC LFS
2	8/30/17	UPDATE TO 6TH ED. (2017) FBC LFS
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DATE: 11/8/13

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DWG. BY: JK

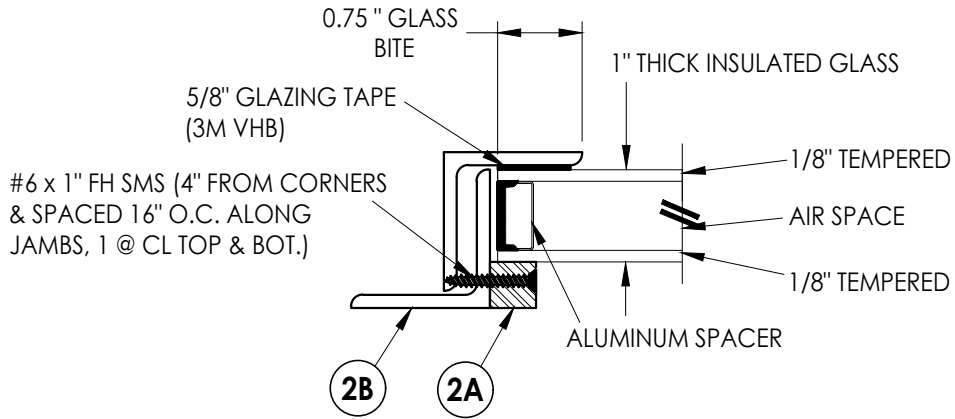
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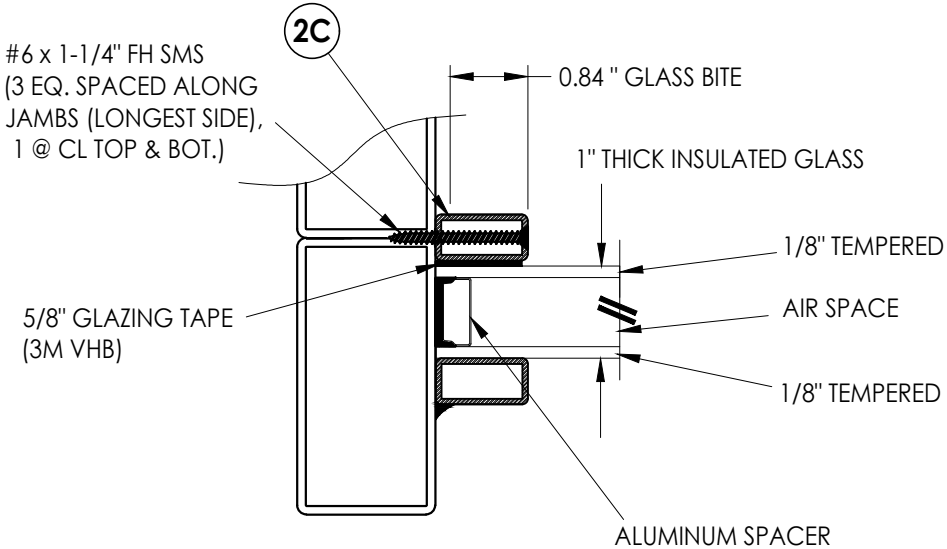
FL-16663.3

SHEET 3 OF 12

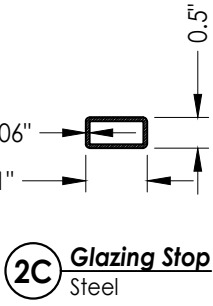
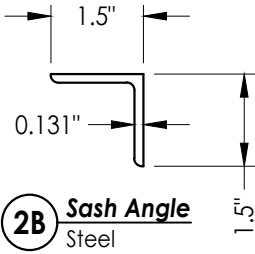
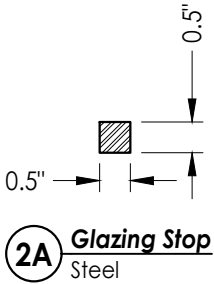
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G1 GLAZING DETAIL
Operable Door/Sidelite



G1 GLAZING DETAIL
Fixed Sidelite/Transom

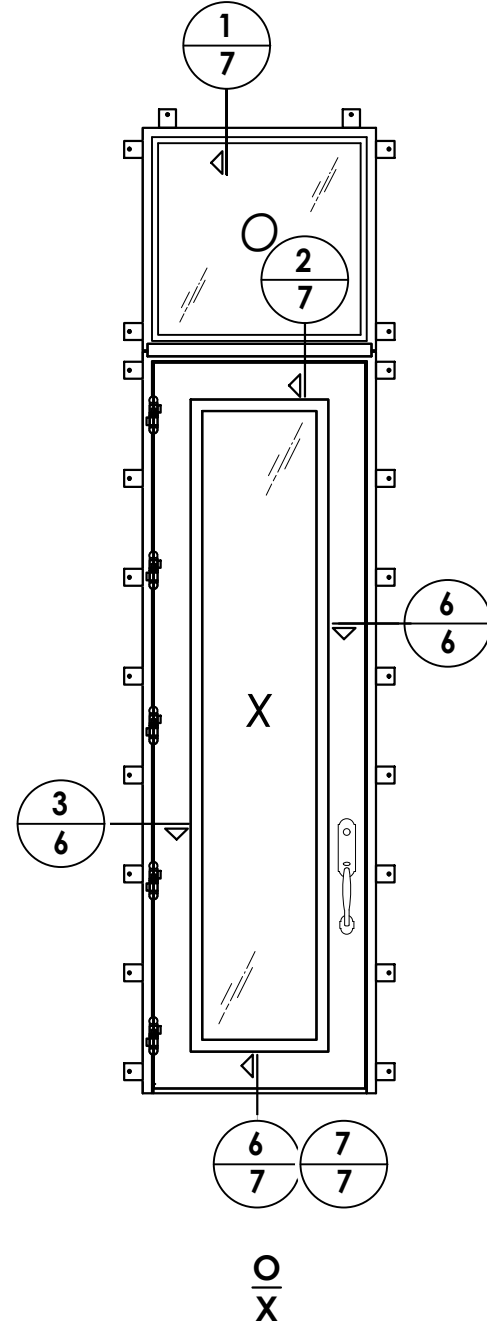
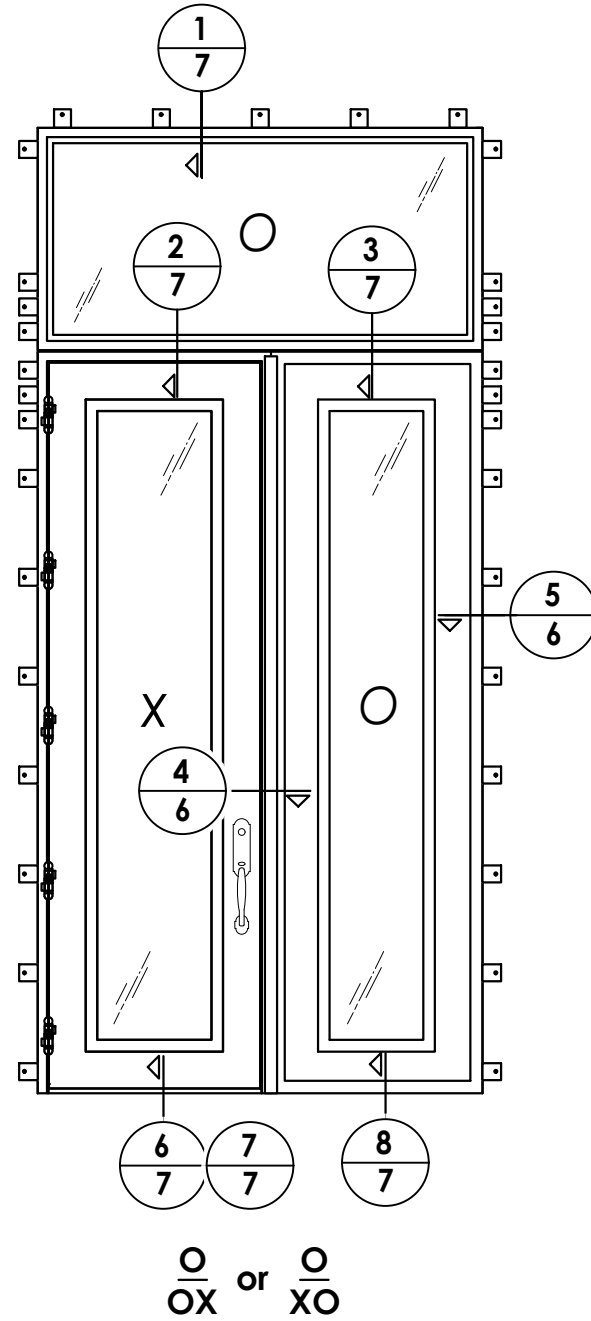
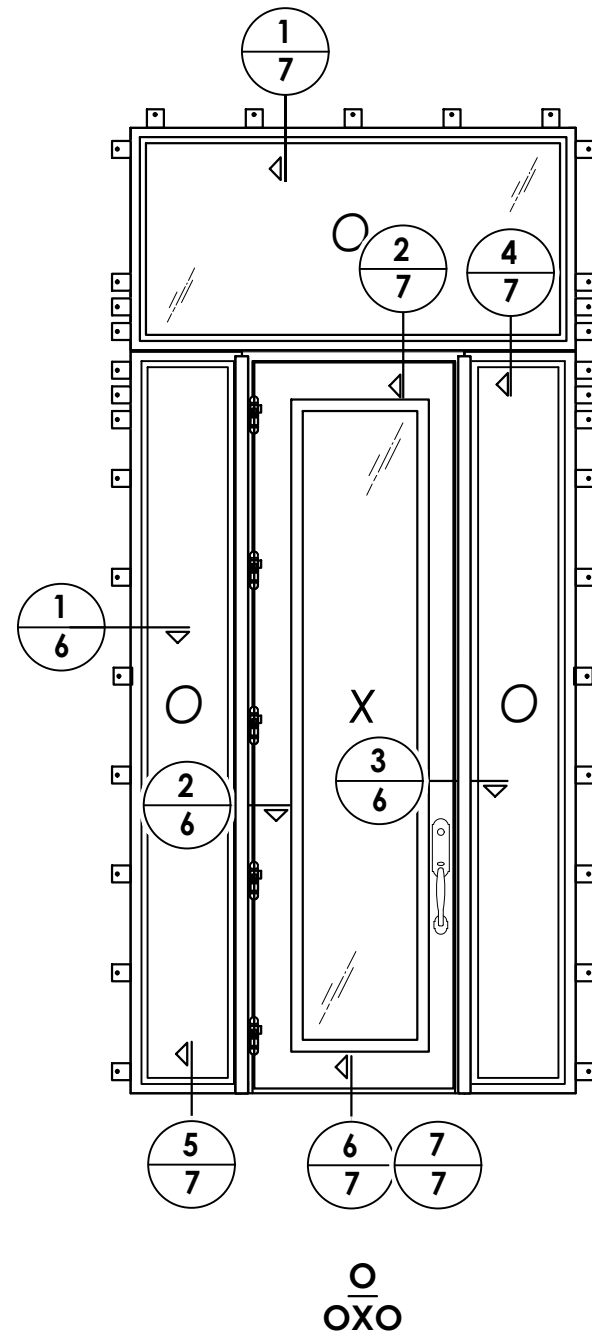


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		BY

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SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-16663.3
SHEET	4 OF 12

PRODUCT:	CLARK HALL IRON DOORS
PART OR ASSEMBLY:	GLAZING DETAILS

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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

[illegible]

PRODUCT: CLARK HALL IRON DOORS

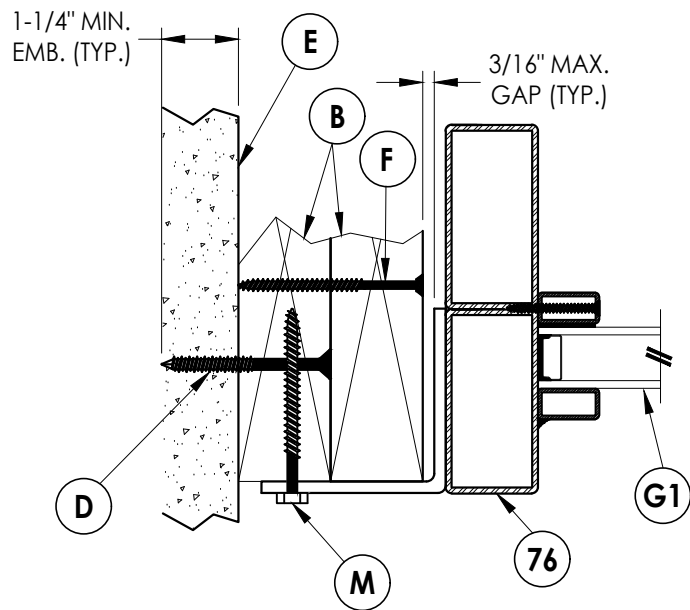
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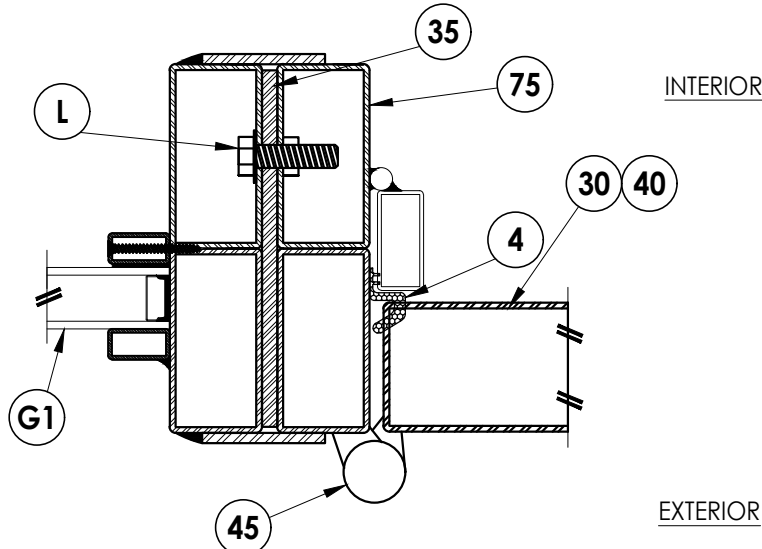
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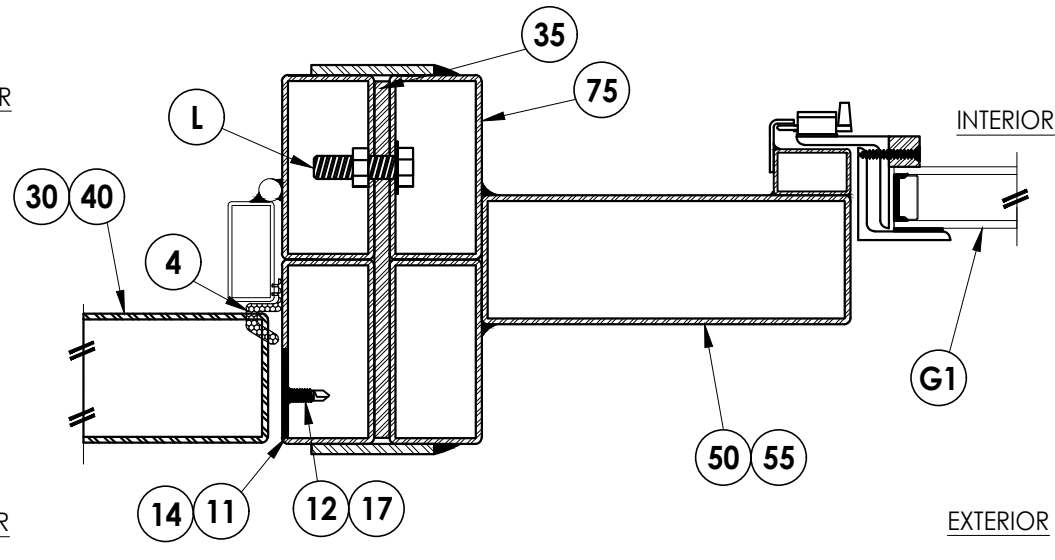
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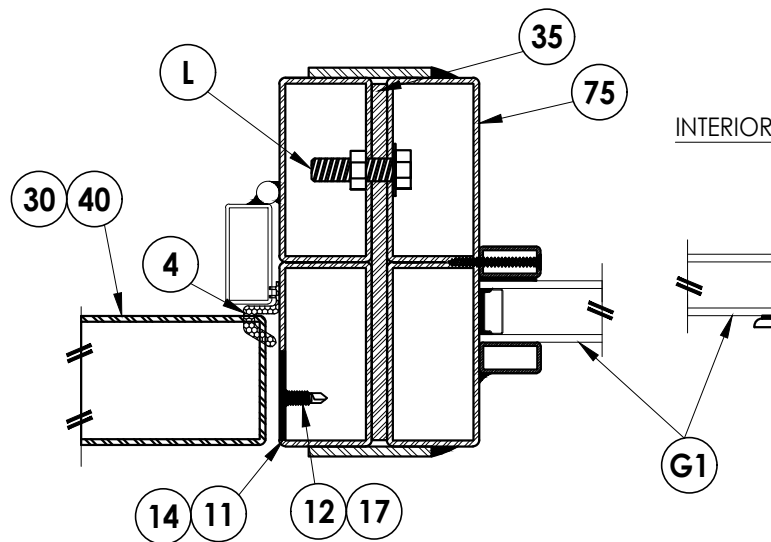
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6 **HORIZONTAL CROSS SECTION**
Outswing Shown (Inswing Similar)



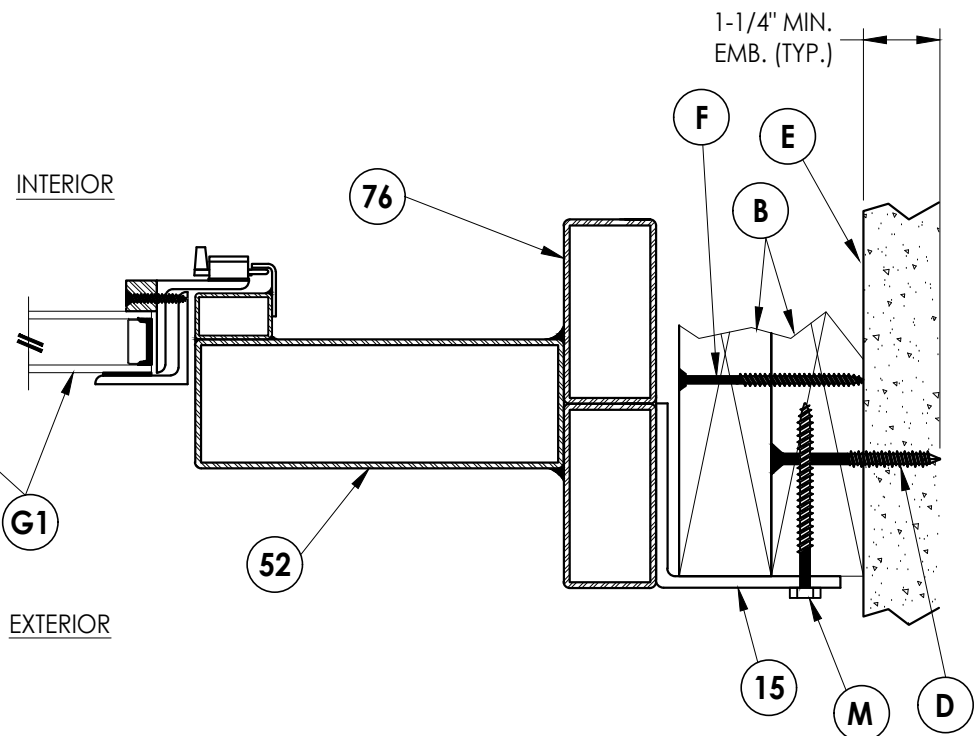
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Outswing Shown (Inswing Similar)



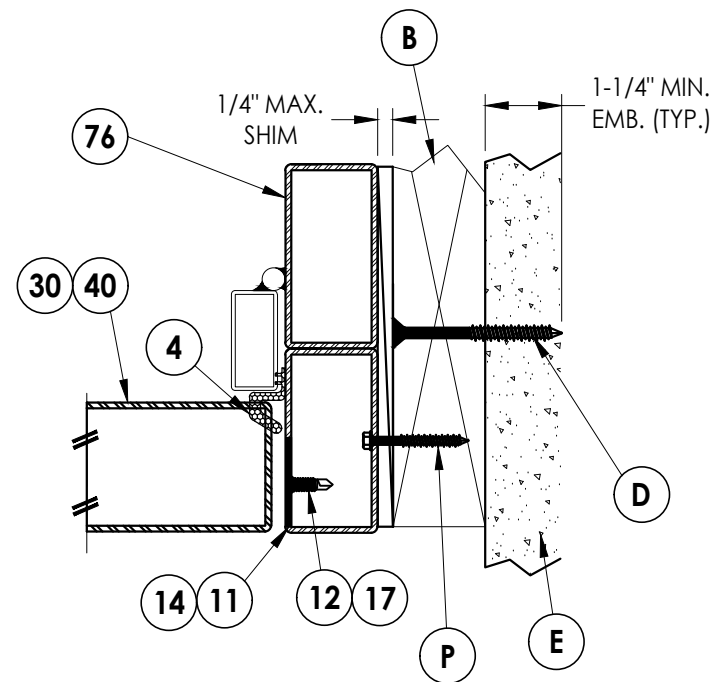
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6 **HORIZONTAL CROSS SECTION**
Outswing Shown (Inswing Similar)



3
6 **HORIZONTAL CROSS SECTION**
Outswing Shown (Inswing Similar)



5
6 **HORIZONTAL CROSS SECTION**
Outswing Shown (Inswing Similar)



6
6 **HORIZONTAL CROSS SECTION**
Shown w/ Optional Through the Frame Anchoring

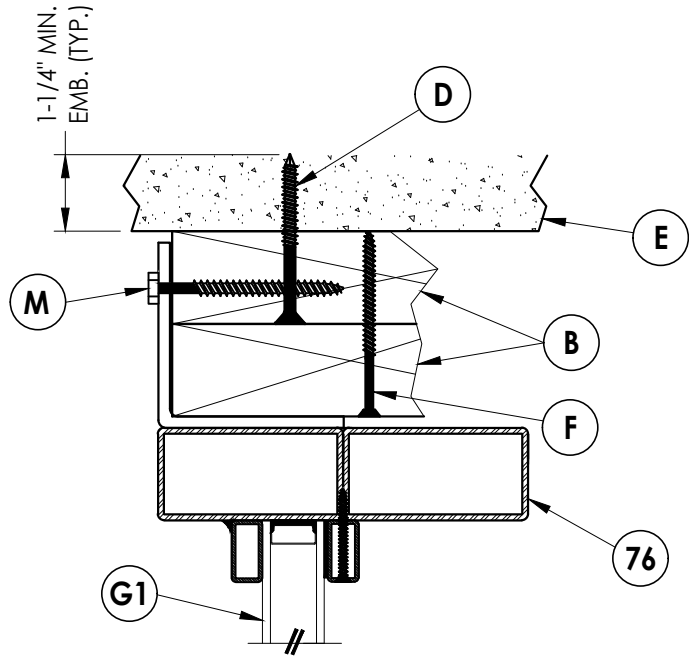
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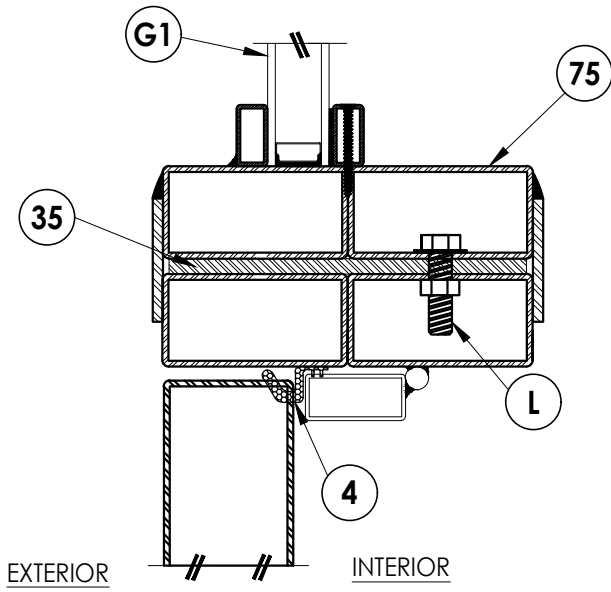
PRODUCT:
CLARK HALL IRON DOORS

PART OR ASSEMBLY:
HORIZONTAL
CROSS SECTIONS

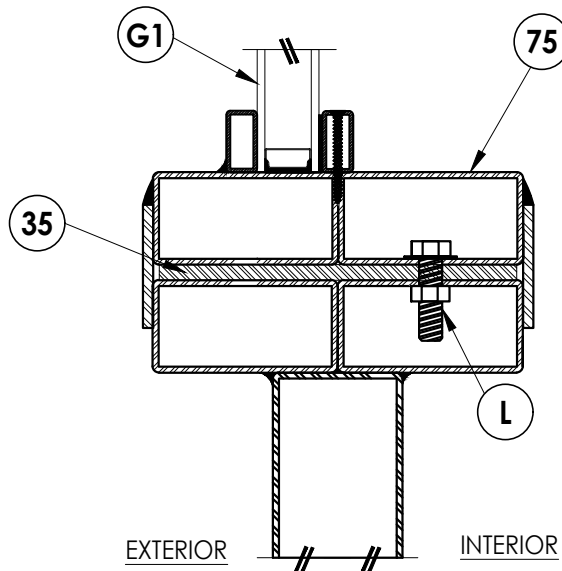
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2	8/30/17		UPDATE TO 6TH ED.	(2017)	FBC	LFS
1	8/17/15		UPDATE TO 5TH ED.	(2014)	FBC	LFS
DATE: 11/8/13						
SCALE: N.T.S.						
DWG. BY: JK						
CHK. BY: LFS						
DRAWING NO.: FL-16663.3						
SHEET 6 OF 12						



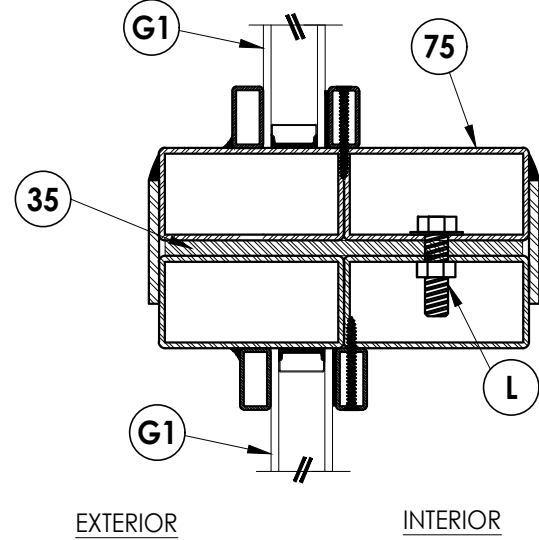
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7 **VERTICAL CROSS SECTION**
Outswing Shown (Inswing Similar)



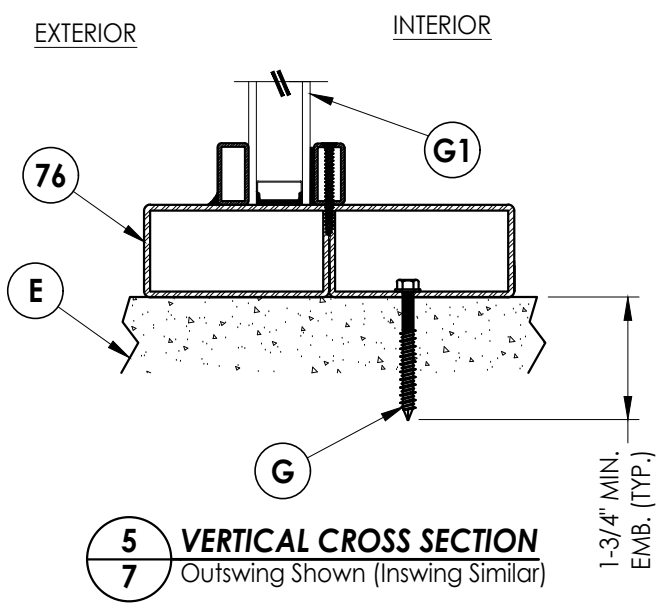
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Outswing Shown (Inswing Similar)



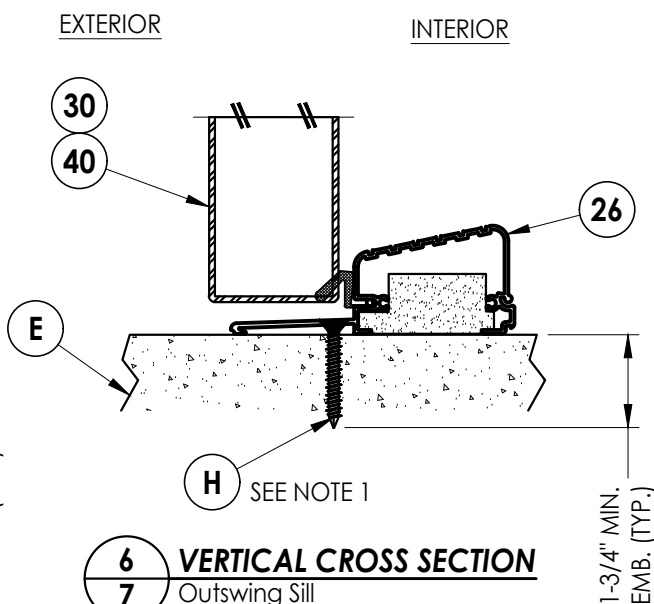
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Outswing Shown (Inswing Similar)



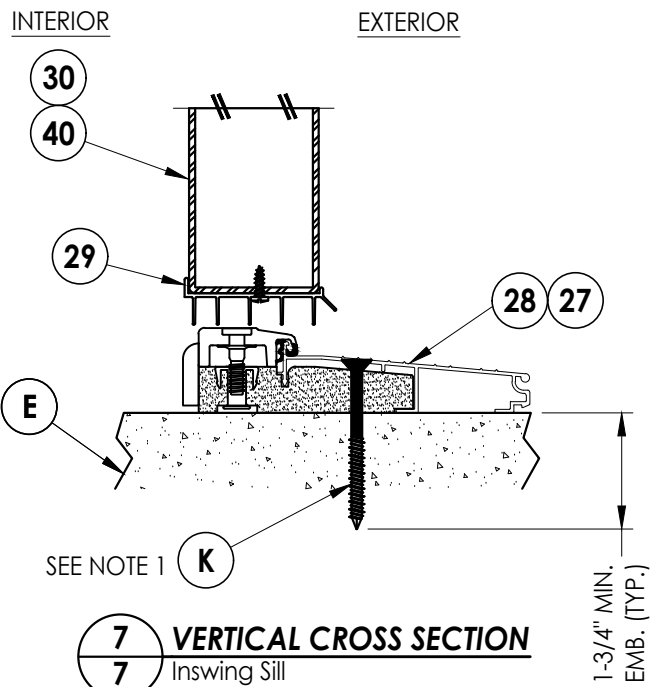
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7 **VERTICAL CROSS SECTION**
Outswing Shown (Inswing Similar)



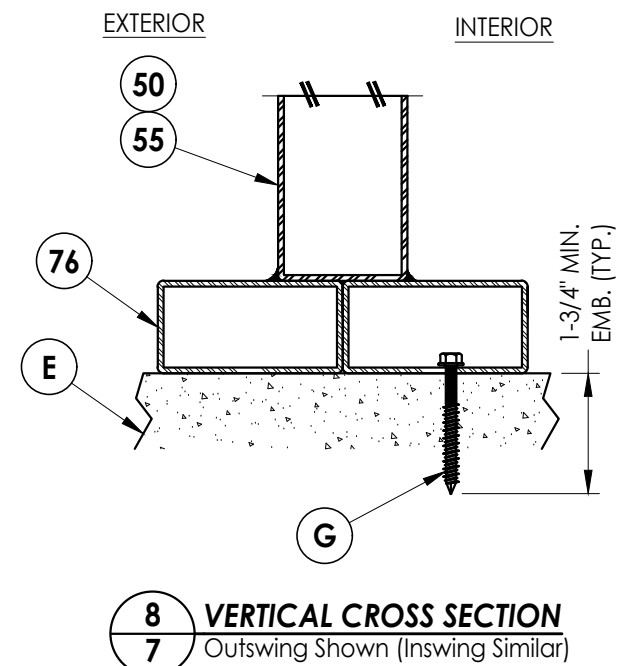
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7 **VERTICAL CROSS SECTION**
Outswing Shown (Inswing Similar)



6
7 **VERTICAL CROSS SECTION**
Outswing Sill



7
7 **VERTICAL CROSS SECTION**
Inswing Sill



8
7 **VERTICAL CROSS SECTION**
Outswing Shown (Inswing Similar)

NOTE:
1. Sill anchor is not required for Single Door w/ Transom (O/X).

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Lyndon F. Schmidt
P.E. No. 43409

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PRODUCT:
CLARK HALL IRON DOORS

PART OR ASSEMBLY:
VERTICAL
CROSS SECTIONS

NO.	DATE	REVISIONS
4	7/05/23	UPDATE TO 8TH ED. (2023) FBC
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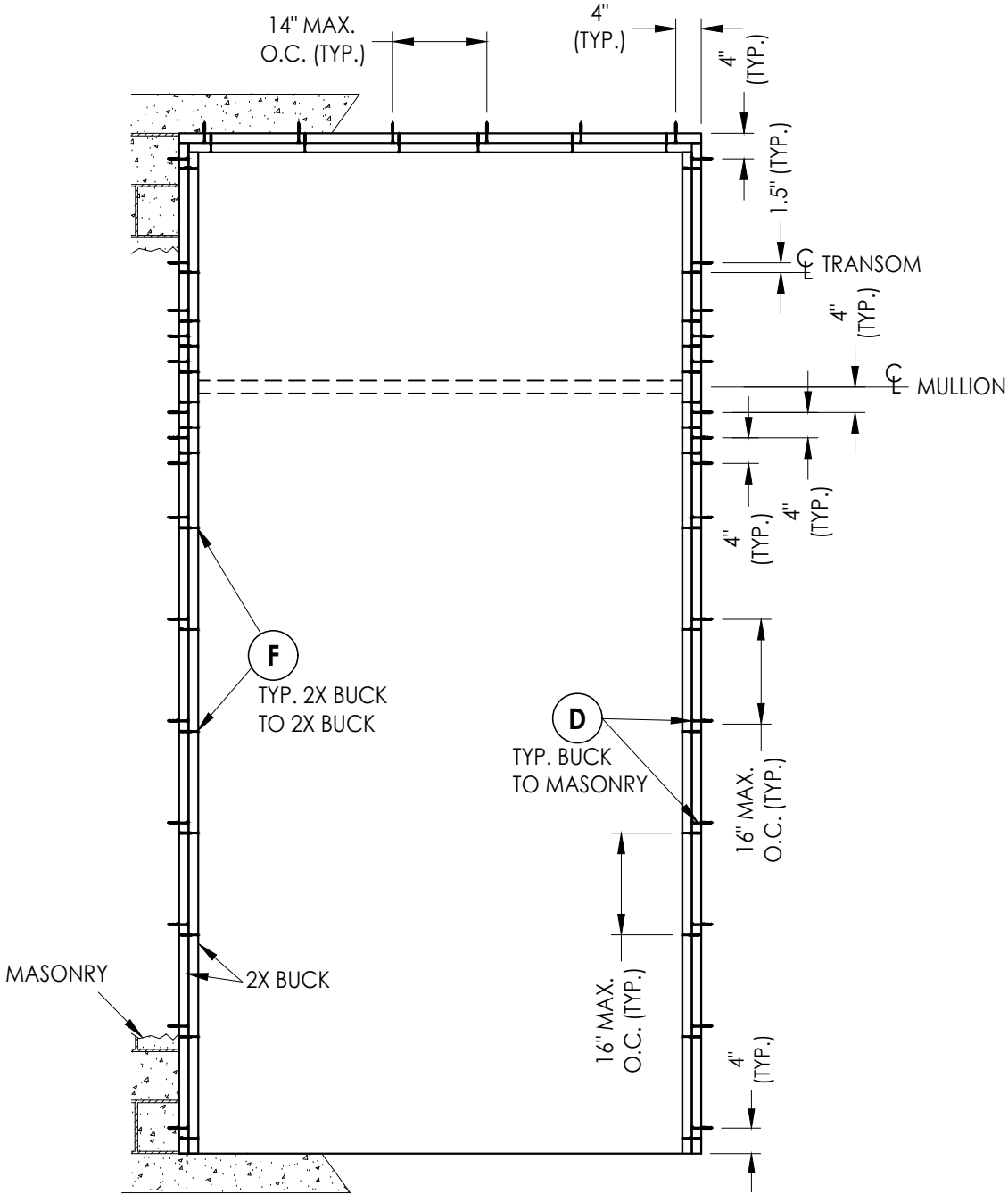
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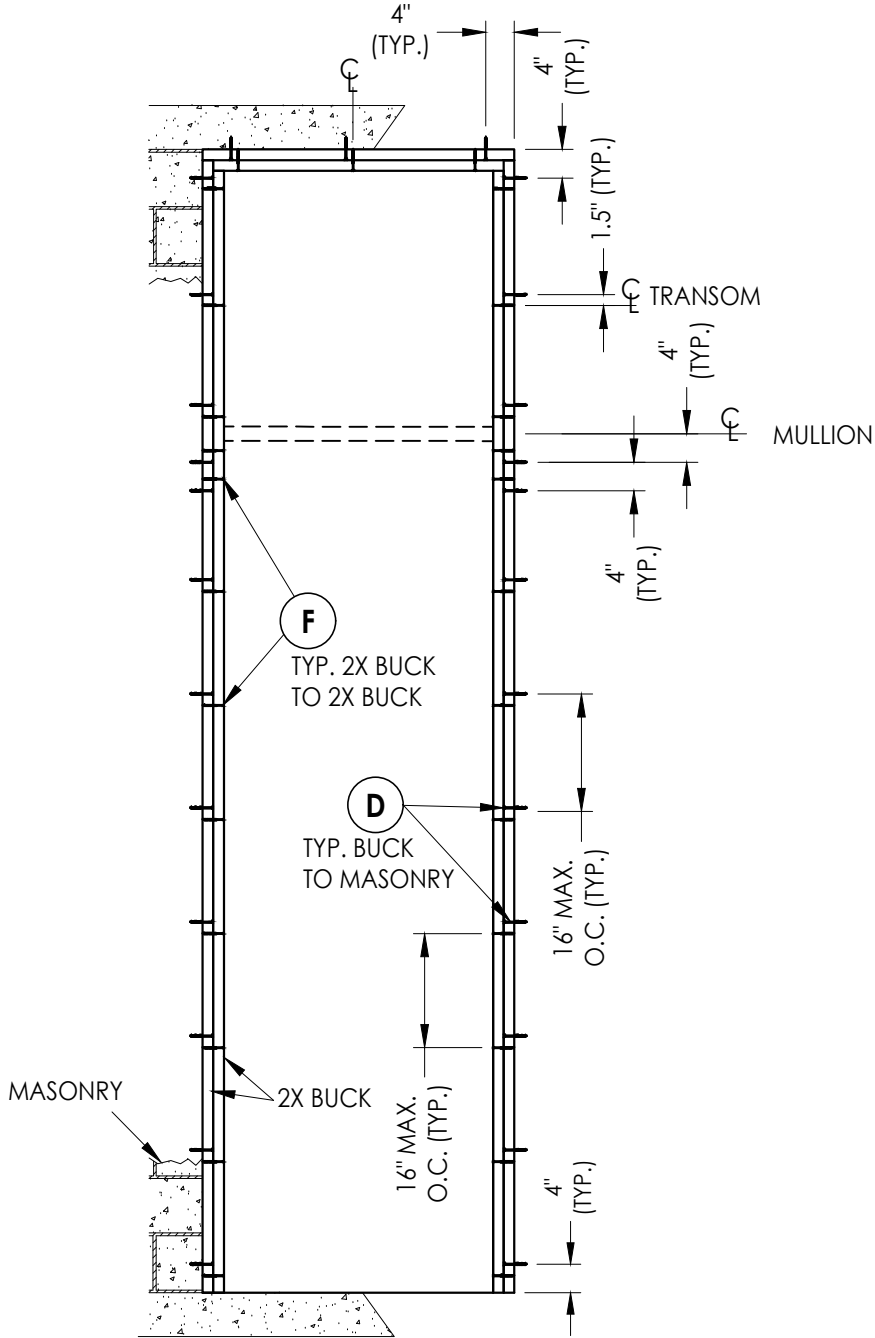
SHEET 7 OF 12

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BUCK ANCHORING

$\frac{O}{OXO}$, $\frac{O}{OX}$, $\frac{O}{XO}$



BUCK ANCHORING

$\frac{O}{X}$

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"
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.

Documents Prepared By:
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P.E. No. 43409

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FBPE Registry No. 9813

PRODUCT: CLARK HALL IRON DOORS

PART OR ASSEMBLY:
BUCK ANCHORING

NO.	DATE	REVISIONS			
		DATE	BY	REVISIONS	
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3	9/09/20	UPDATE TO 7TH ED. (2020)	FBC	LFS	
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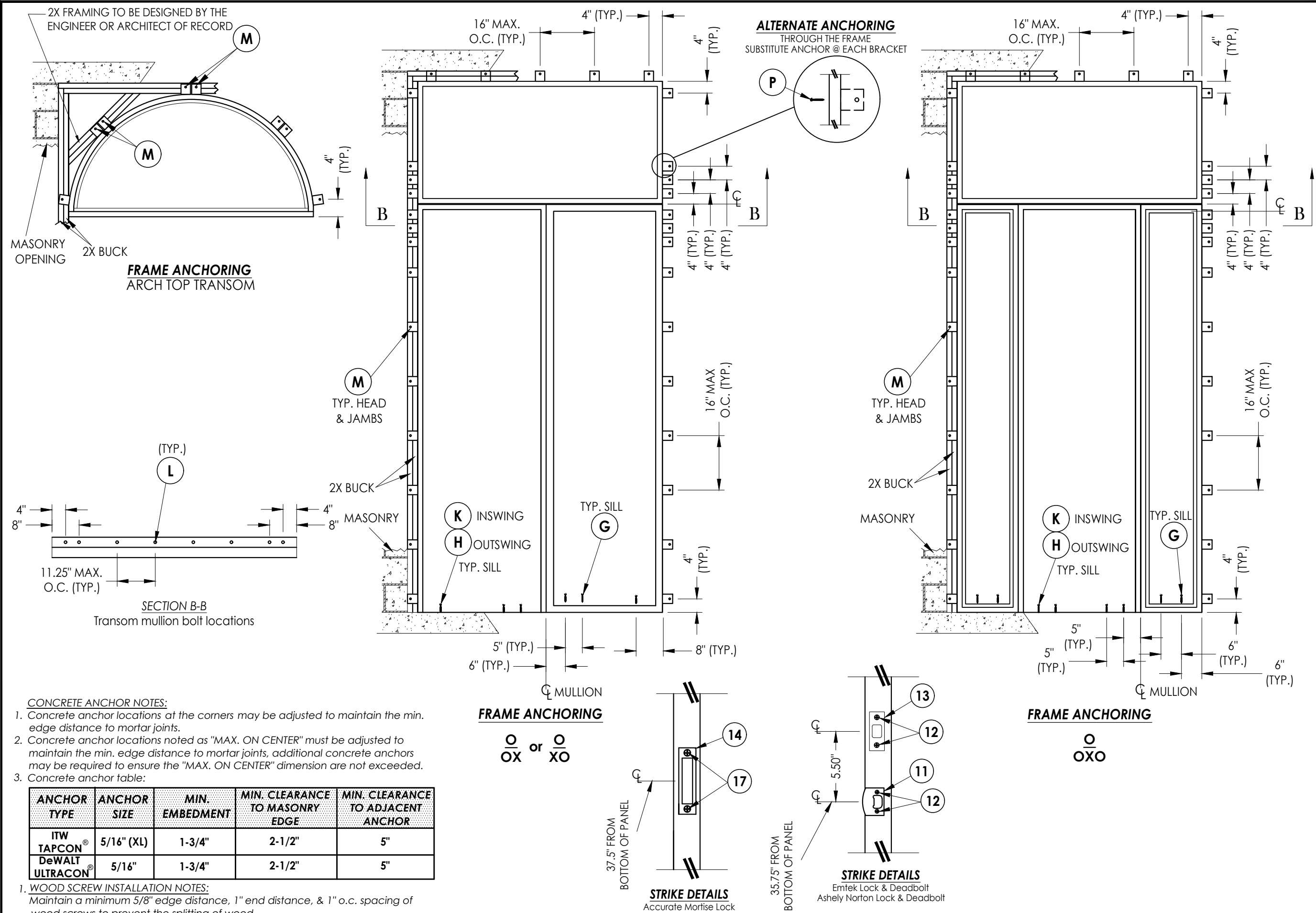
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CHK. BY: LFS

DRAWING NO.:

FL-16663.3

SHEET 8 OF 12



ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	5/16" (XL)	1-3/4"	2-1/2"	5"
DeWALT ULTRA CON®	5/16"	1-3/4"	2-1/2"	5"

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3	9/09/20	UPDATE TO 7TH ED. (2020)	FBC	LFS		
2	8/30/17	UPDATE TO 6TH ED. (2017)	FBC	LFS		
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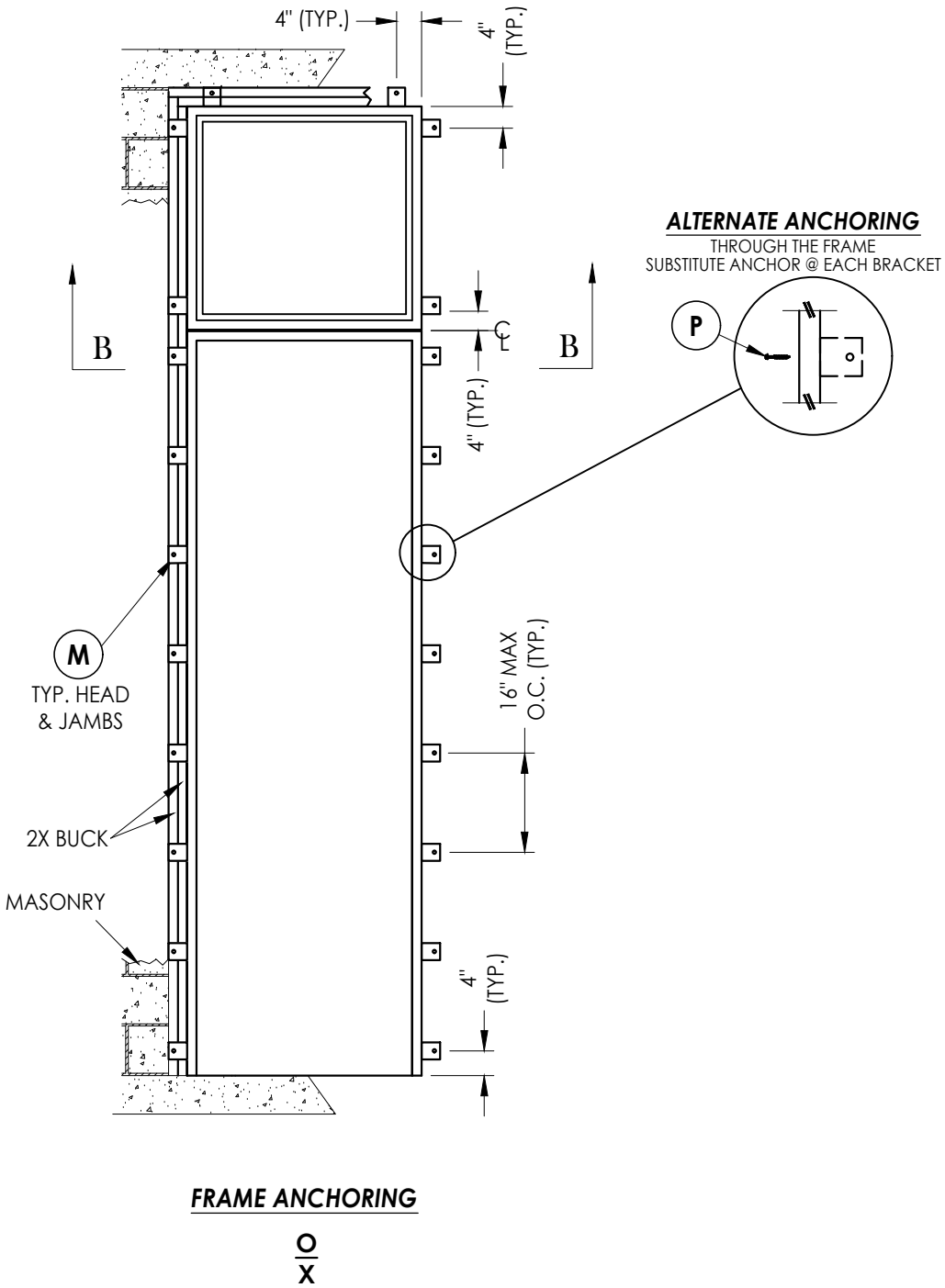
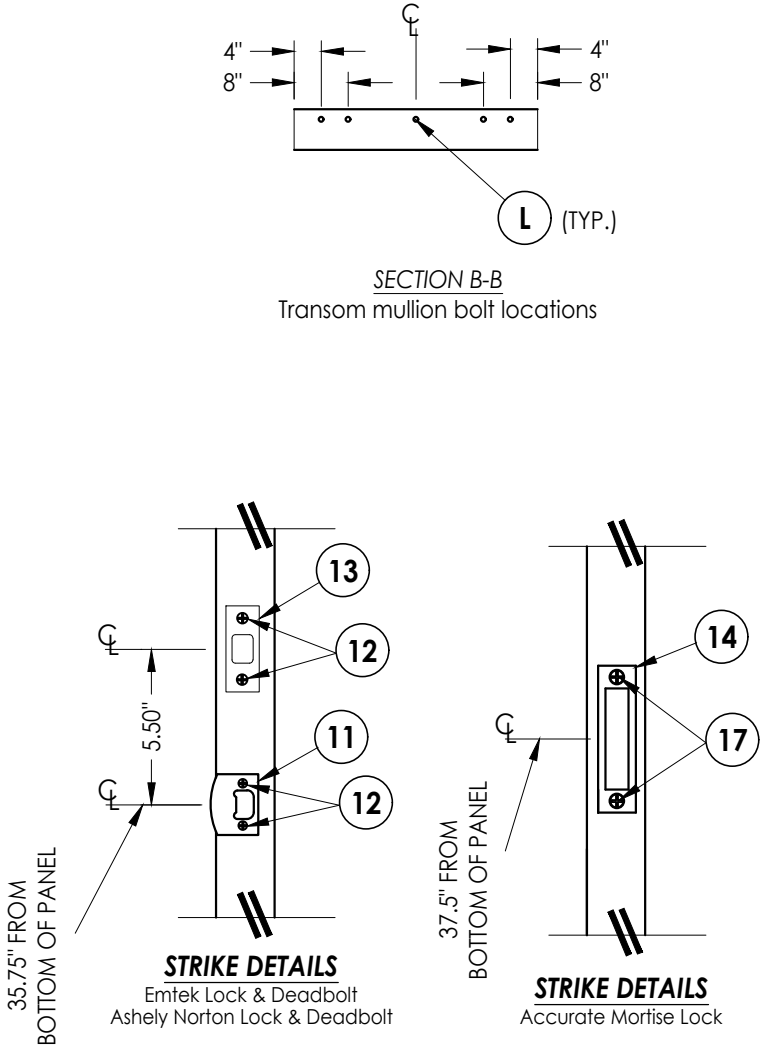
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SHEET 9 OF 12

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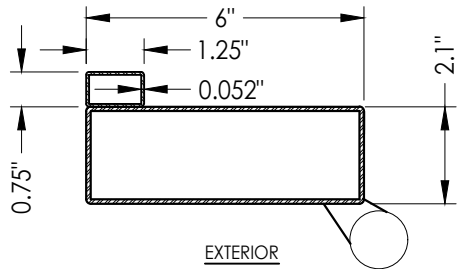
Documents Prepared By:
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FBPE Registry No. 9813

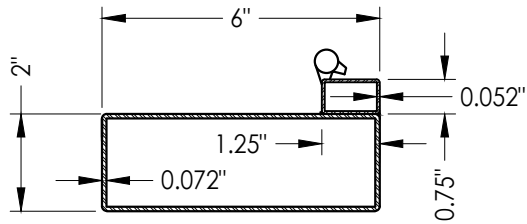


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DWG. BY: JK							
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DRAWING NO.: FL-16663.3							
SHEET 10 OF 12				PRODUCT: CLARK HALL IRON DOORS			

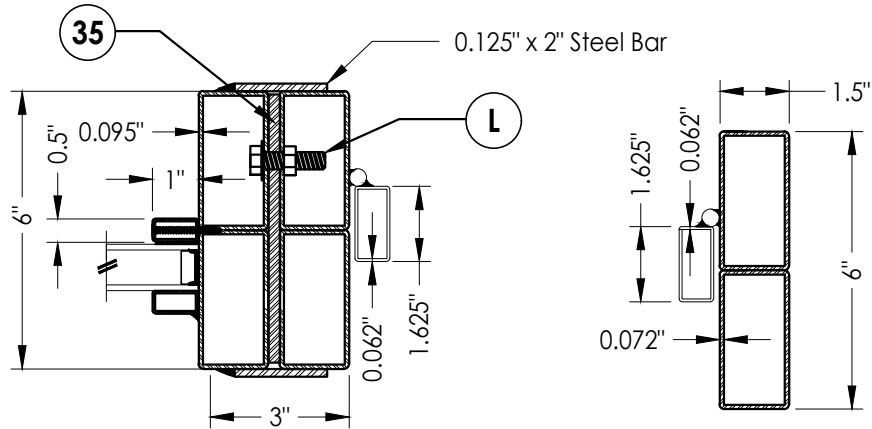
Z:\2023 FBC Drawings\Claek Hall Doors & Windows\FL-16663 R5\FL-16663.1-3.dwg



31 Full Lite Door Panel
Active Hinge Stile

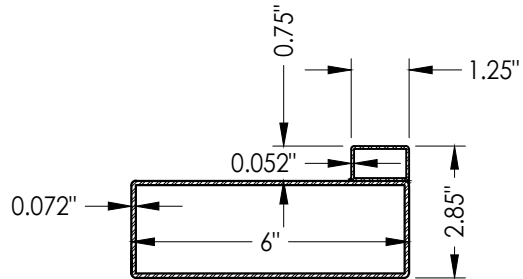


51 Sidelite Panel
Operable Sash Hinge Stile

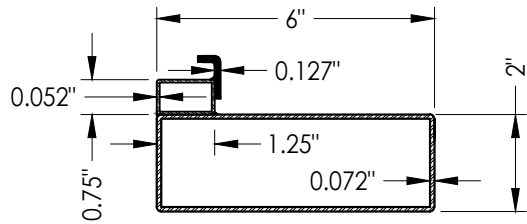


75 MULLION
Vertical with Direct Set Sidelite shown
(Horizontal Mullion Similar)

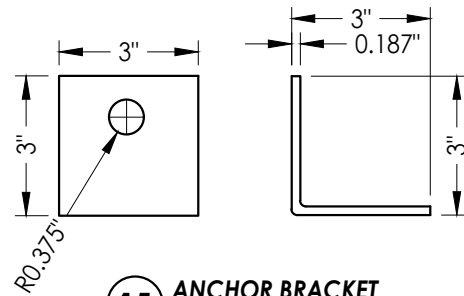
76 Jamb



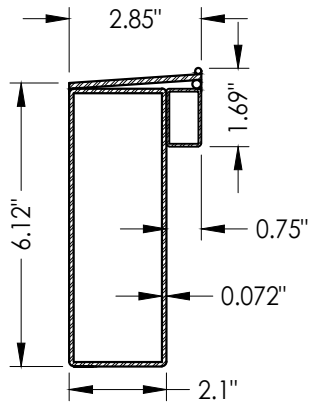
32 Full Lite Door Panel
Active Latch Stile



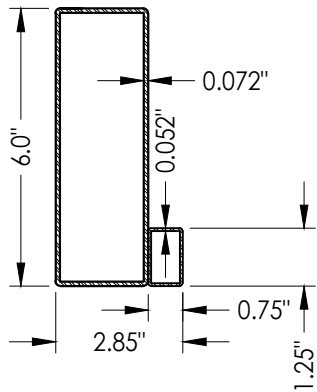
52 Sidelite Panel
Operable Sash Latch Stile



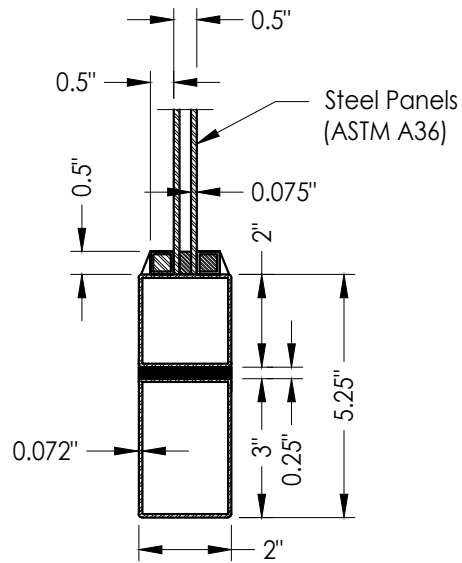
15 ANCHOR BRACKET



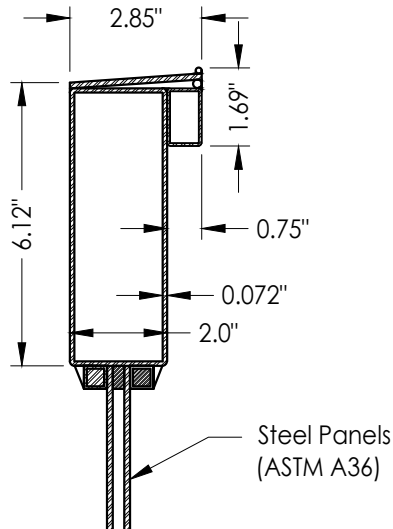
43 Full Lite Door Panel
Bottom Rail



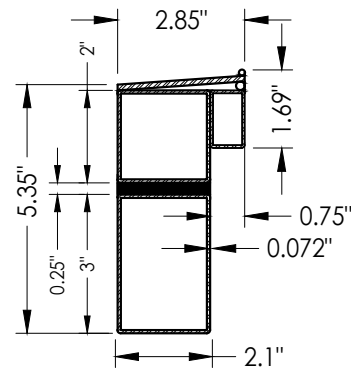
44 Full Lite Door Panel
Top Rail



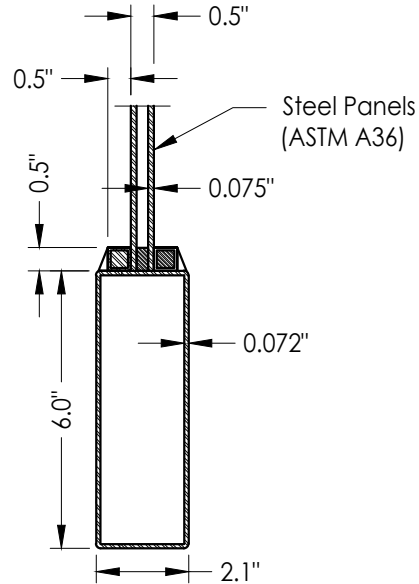
54 Bottom Rail
3/4 Lite Sidelite Panel



56 Mid Rail
3/4 Lite Sidelite Panel



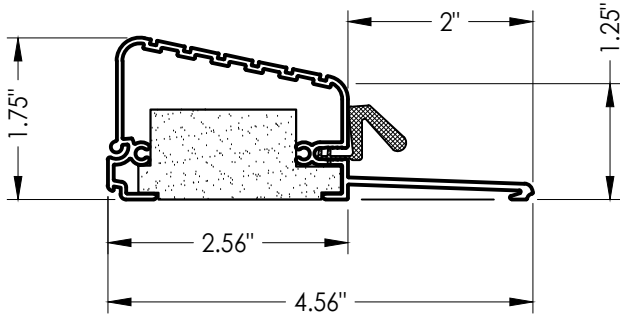
53 Bottom Rail
Sidelite Panel



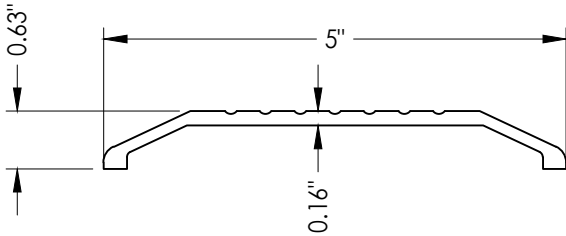
57 Bottom Rail
3/4 Lite Door Panel

PRODUCT:		CLARK HALL IRON DOORS		PART OR ASSEMBLY:		COMPONENTS	
DOCUMENTS PREPARED BY:		CLARK HALL IRON DOORS		PART OR ASSEMBLY:		COMPONENTS	
Lyndon F. Schmidt		CLARK HALL IRON DOORS		PART OR ASSEMBLY:		COMPONENTS	
P.E. No. 43409		CLARK HALL IRON DOORS		PART OR ASSEMBLY:		COMPONENTS	
BUILDING CONSULTANTS, INC.		CLARK HALL IRON DOORS		PART OR ASSEMBLY:		COMPONENTS	
P.O. Box 230, Vairico, FL 33595		CLARK HALL IRON DOORS		PART OR ASSEMBLY:		COMPONENTS	
Phone No.: 813.659.9197		CLARK HALL IRON DOORS		PART OR ASSEMBLY:		COMPONENTS	
FBPE Registry No. 9813		CLARK HALL IRON DOORS		PART OR ASSEMBLY:		COMPONENTS	
DATE: 11/8/13		CLARK HALL IRON DOORS		PART OR ASSEMBLY:		COMPONENTS	
SCALE: N.T.S.		CLARK HALL IRON DOORS		PART OR ASSEMBLY:		COMPONENTS	
DWG. BY: JK		CLARK HALL IRON DOORS		PART OR ASSEMBLY:		COMPONENTS	
CHK. BY: LFS		CLARK HALL IRON DOORS		PART OR ASSEMBLY:		COMPONENTS	
DRAWING NO.: FL-16663.3		CLARK HALL IRON DOORS		PART OR ASSEMBLY:		COMPONENTS	
SHEET 11 OF 12		CLARK HALL IRON DOORS		PART OR ASSEMBLY:		COMPONENTS	

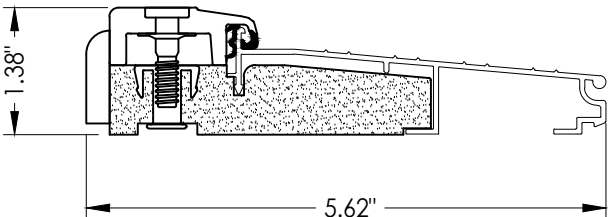
ITEM #	DESCRIPTION	MATERIAL
B	2X BUCK SG >= 0.55	WOOD
D	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	#10 X 3" PFH WOOD SCREW	STEEL
G	5/16" X 2-1/4" HH DeWALT OR ITW CONCRETE SCREW	STEEL
H	5/16" X 2-1/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
K	5/16" X 2-3/4" PFH DeWALT OR 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 (2-3/4" MIN. EMBEDMENT)	STEEL
P	#12 X 1-1/2" HWH SMS (1-3/16" MIN. EMBEDMENT)	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 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
35	MULLION REINFORCEMENT (1/4" X 6" STEEL BAR)	ASTM A36 STEEL
40	DOOR PANEL (3/4 LITE)	-
43	BOTTOM RAIL (FULL LITE)	ASTM A36 STEEL
44	TOP RAIL (FULL LITE)	ASTM A36 STEEL
45	DOOR PANEL HINGE	STEEL
50	SIDELITE PANEL W/ OPERABLE SASH	-
51	SIDELITE HINGE STILE	ASTM A36 STEEL
52	SIDELITE LATCH STILE	ASTM A36 STEEL
53	BOTTOM RAIL (SIDELITE PANEL)	ASTM A36 STEEL
54	BOTTOM RAIL (3/4 LITE SIDELITE PANEL)	ASTM A36 STEEL
55	3/4 SIDELITE PANEL W/ OPERABLE SASH	-
56	MID RAIL (3/4 LITE SIDELITE PANEL)	ASTM A36 STEEL
57	BOTTOM RAIL (3/4 LITE SIDELITE PANEL)	ASTM A36 STEEL
60	SASH LITE FRAME	STEEL
61	SASH HINGE	STEEL
75	VERTICAL MULL	ASTM A36 STEEL
76	JAMB	ASTM A36 STEEL



26 OUTSWING THRESHOLD



27 ADA THRESHOLD



28 INSWING THRESHOLD

[illegible]