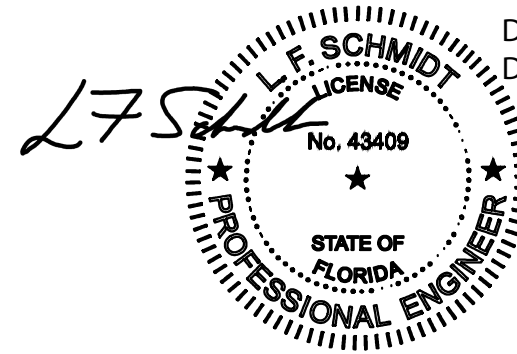


INSWING/OUTSWING
"IMPACT"



THIS PRODUCT APPROVAL IS VALID
ONLY FOR THE STATE OF FLORIDA

RW
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

1. This product has been evaluated and is in compliance with the 8th Edition (2023) 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 2222.6 of the FBC.

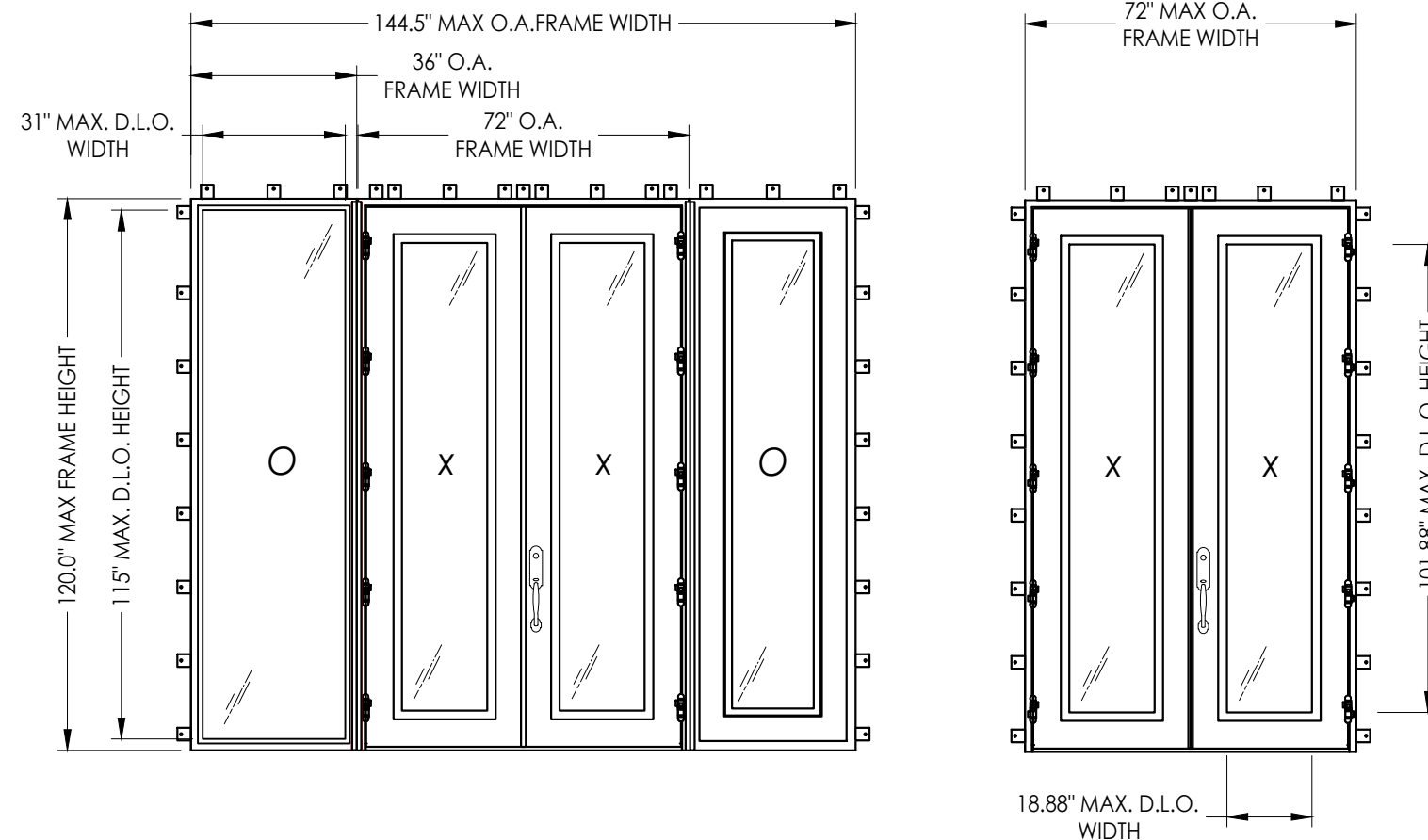
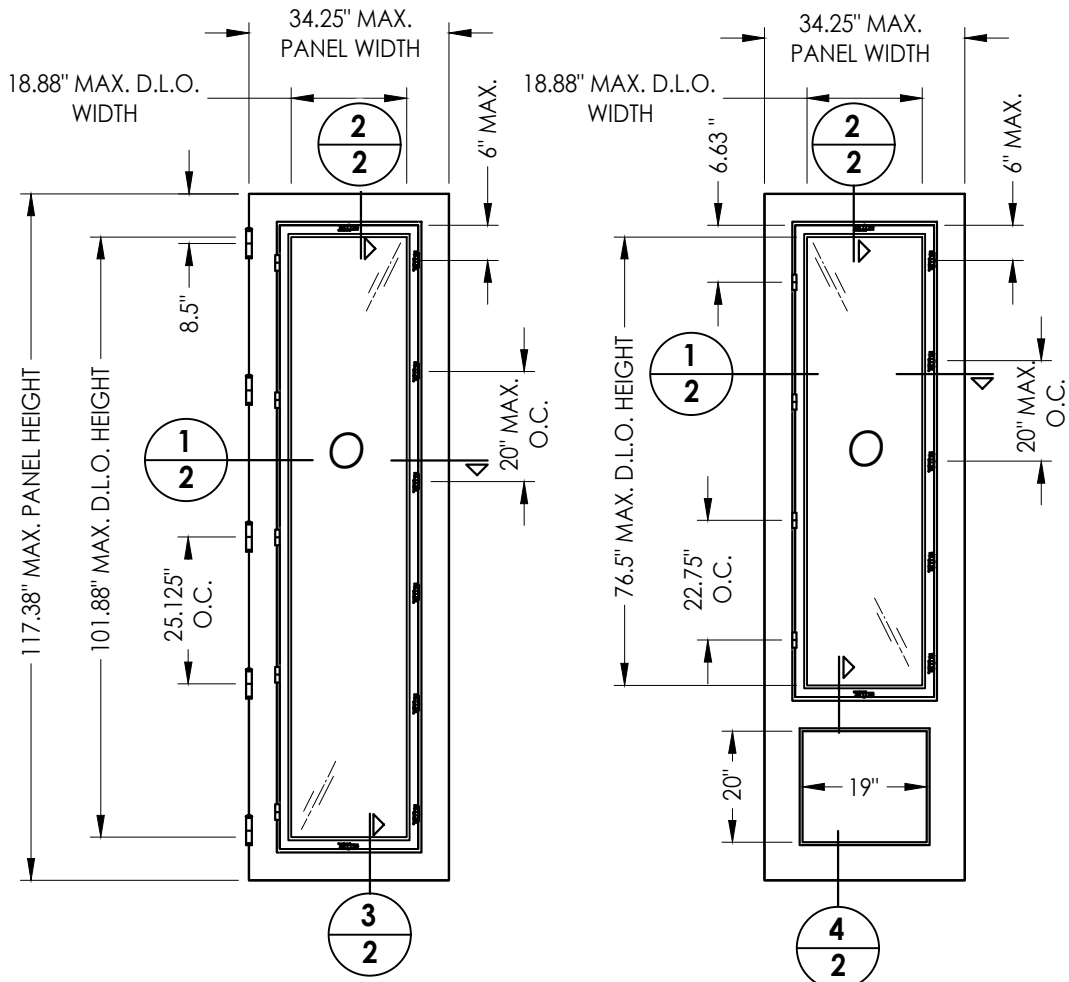


TABLE OF CONTENTS	
SHEET#	DESCRIPTION
1	Typical elevations, design pressures, & general notes
2	Door panel details
3	Sidelite panel details
4	Glazing details
5	Elevations
6	Horizontal cross sections
7	Vertical cross sections
8	Buck anchoring
9	Frame anchoring
10	Frame anchoring
11	Components
12	Bill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

CONFIGURATION	OVERALL FRAME DIMENSION	DESIGN PRESSURE (PSF)			
		INSWING		OUTSWING	
		POS.	NEG.	POS.	NEG.
XX	72.0" x 120.0"	+65.0	-65.0	+75.0	-75.0
OXXO	144.5" x 120.0"	+65.0	-65.0	+75.0	-75.0

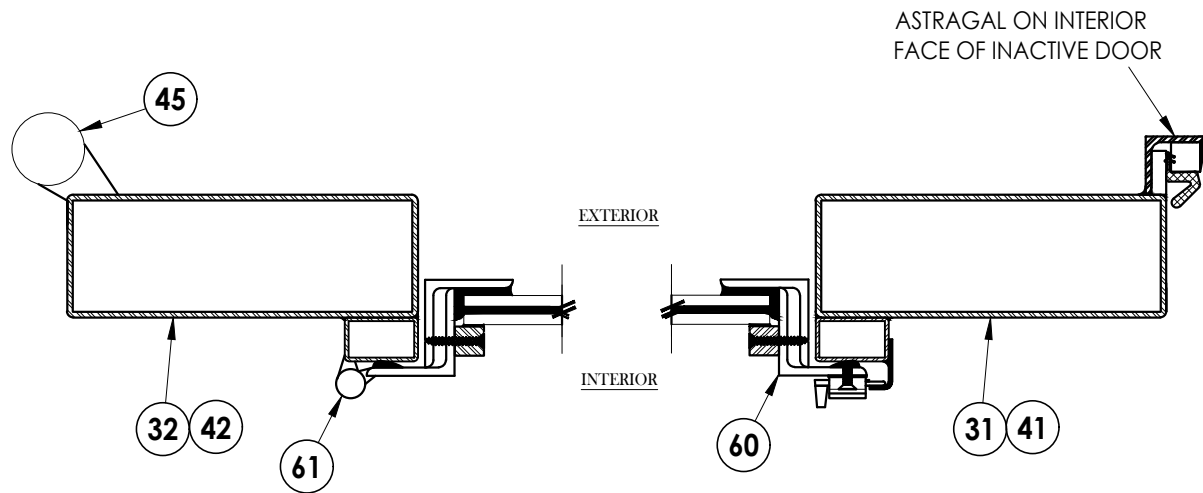
DATE: 10/30/13										PRODUCT:		CLARK HALL IRON DOORS			
SCALE: N.T.S.															
DWG. BY: JK															
CHK. BY: LFS															
DRAWING NO.: FL-16663.17															
SHEET 1 OF 12															
		NO.		DATE											
		1		8/17/15		UPDATE TO 5TH ED. (2014)		FBC		LFS					
		2		8/30/17		UPDATE TO 6TH ED. (2017)		FBC		LFS					
		3		9/09/20		UPDATE TO 7TH ED. (2020)		FBC		LFS					
		4		7/05/23		UPDATE TO 8TH ED. (2023)		FBC		LFS					
												PART OR ASSEMBLY:		TYPICAL ELEVATIONS, DESIGN PRESSURES & GENERAL NOTES	
												REVISIONS			

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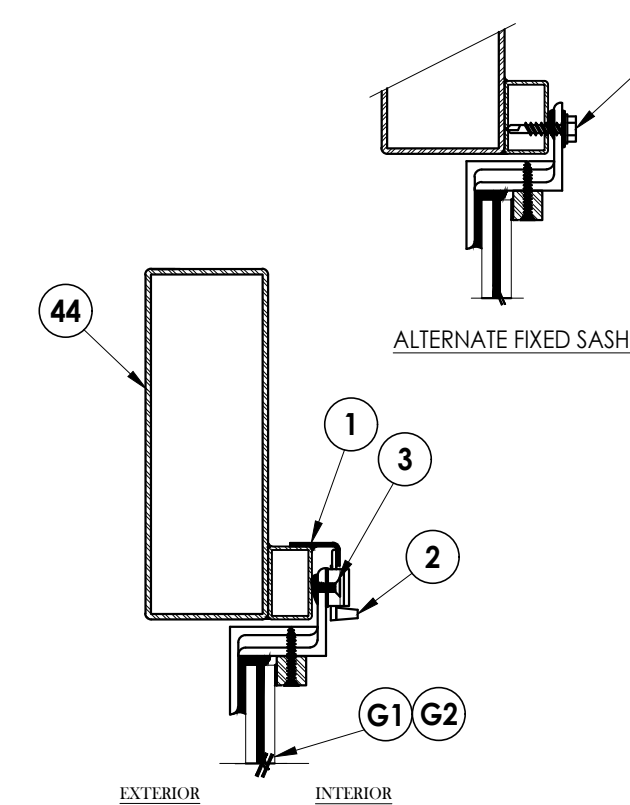


30 DOOR PANEL
w/ Operable Sash

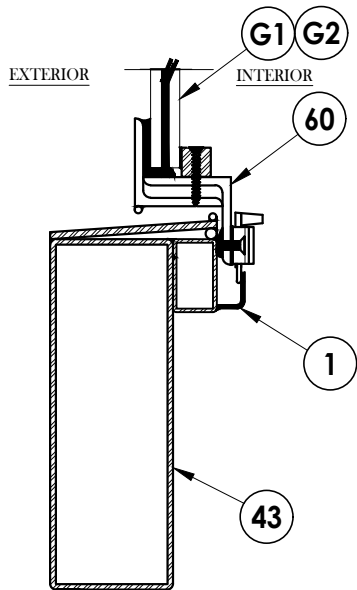
40 3/4 LITE DOOR PANEL
w/ Operable Sash



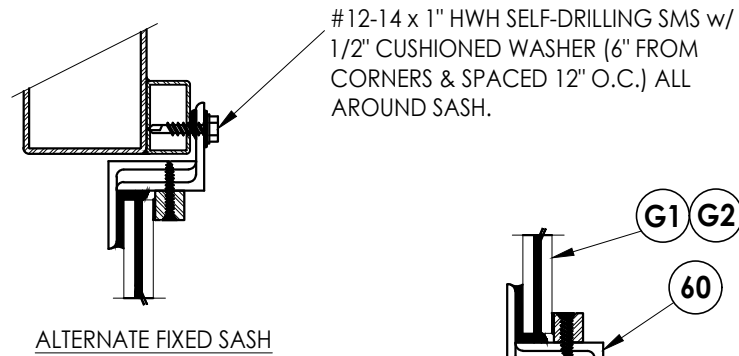
1/2 HORIZONTAL CROSS SECTION
Active Door Panel Shown



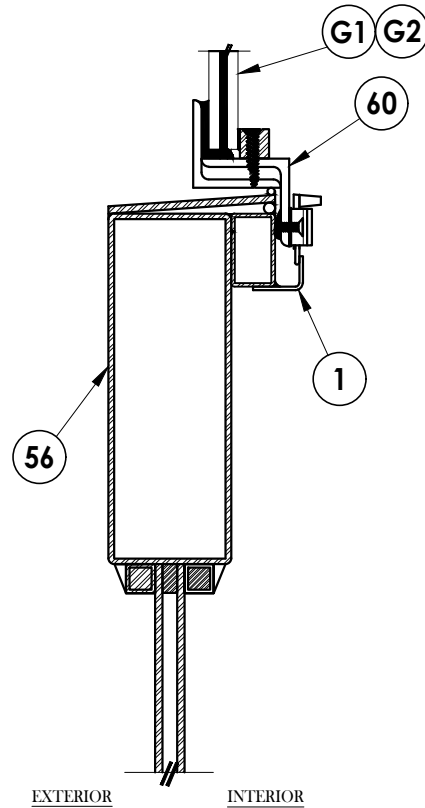
2/2 VERTICAL CROSS SECTION



3/2 VERTICAL CROSS SECTION



ALTERNATE FIXED SASH



4/2 VERTICAL CROSS SECTION

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

PRODUCT:
CLARK HALL IRON DOORS

4	7/05/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
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	
NO.	DATE				BY

DATE: 11/8/13

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

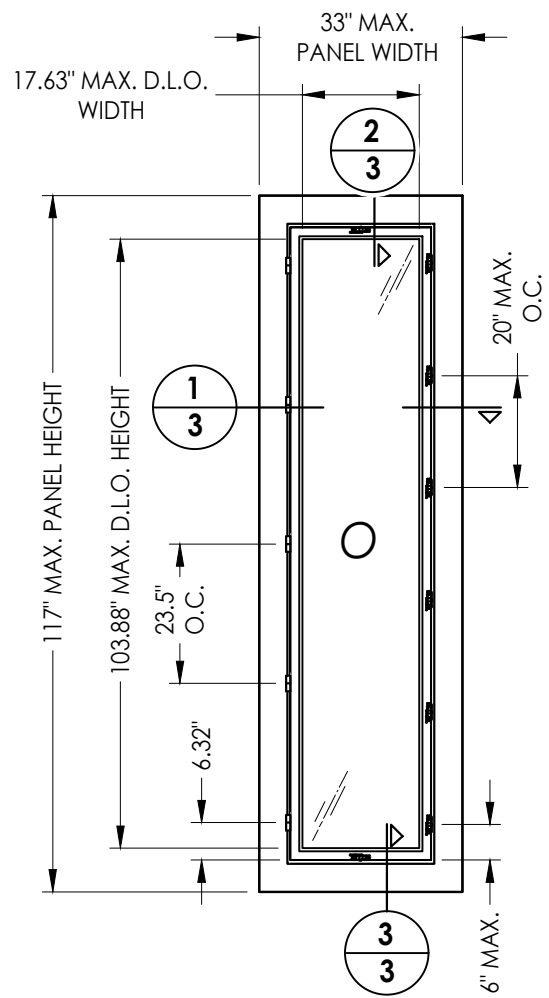
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FL-16663.17

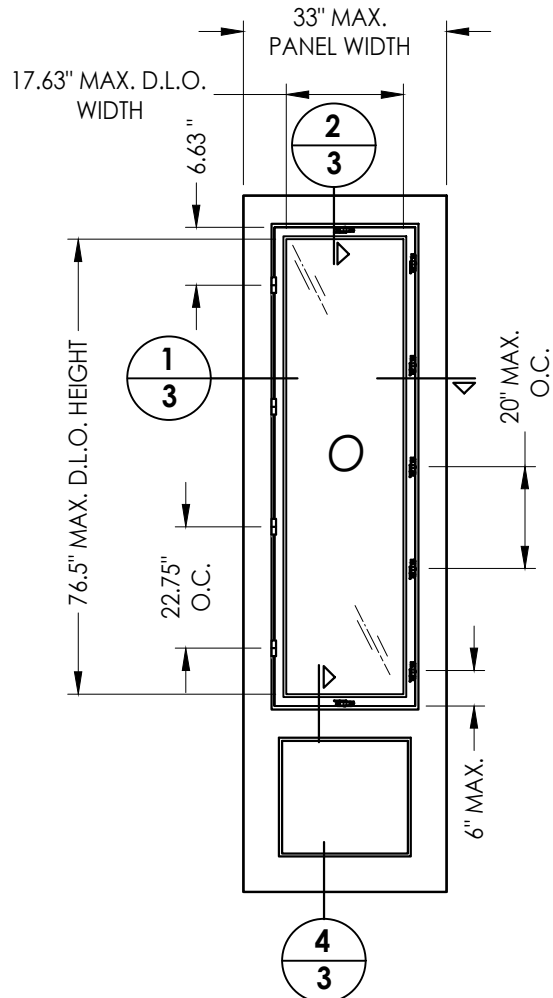
SHEET 2 OF 12

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P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

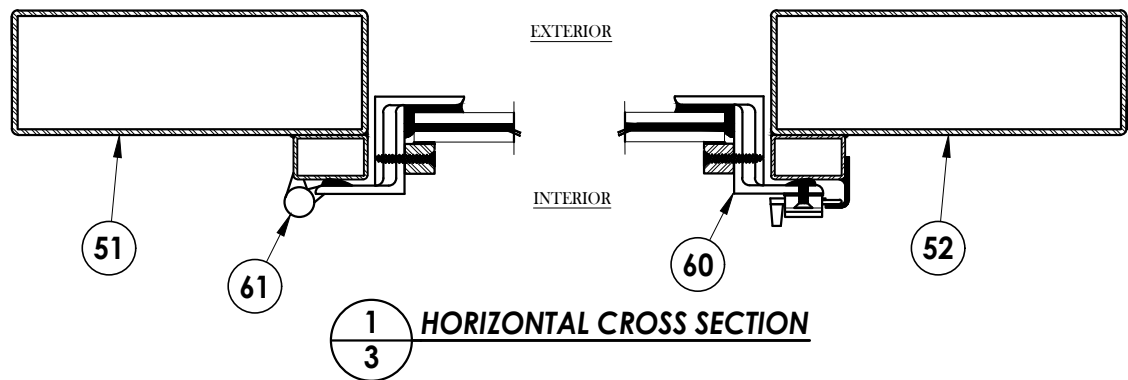
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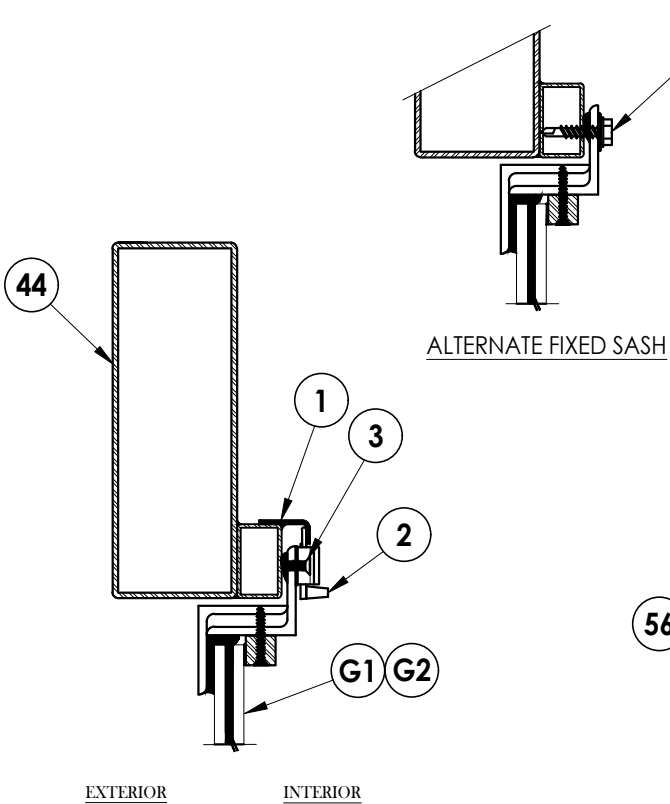
50 **SIDLEITE PANEL**
w/ Operable Sash



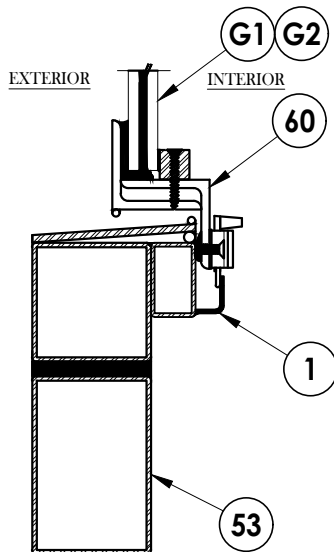
55 **3/4 SIDELITE PANEL**
w/ Operable Sash & Fixed Panel



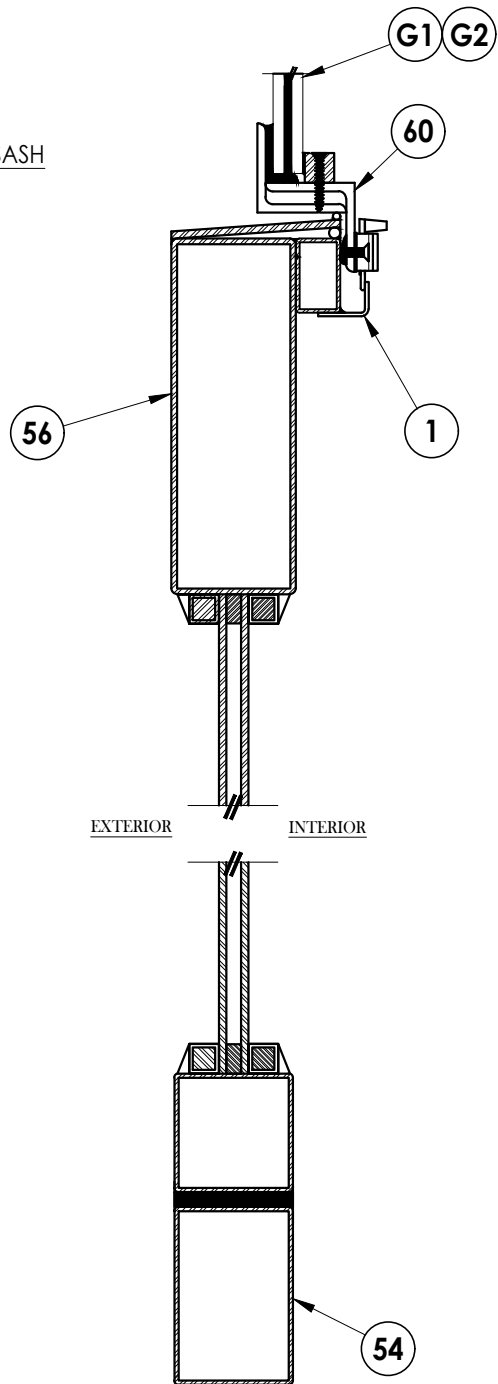
1/3 **HORIZONTAL CROSS SECTION**



2/3 **VERTICAL CROSS SECTION**



3/3 **VERTICAL CROSS SECTION**



4/3 **VERTICAL CROSS SECTION**

PRODUCT: CLARK HALL IRON DOORS

PART OR ASSEMBLY: SIDELITE PANEL DETAILS

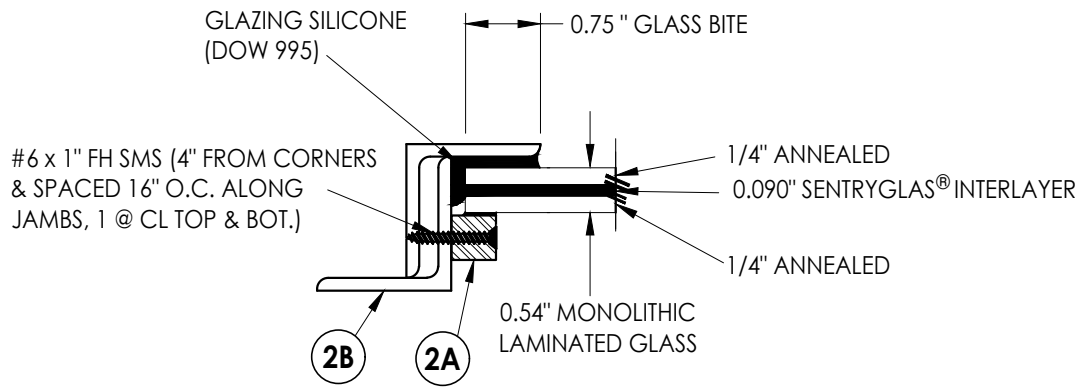
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3	9/09/20	UPDATE TO 7TH ED. (2020) FBC
2	8/30/17	UPDATE TO 6TH ED. (2017) FBC
1	8/17/15	UPDATE TO 5TH ED. (2014) FBC

DATE:	11/8/13
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-16663.17
SHEET	3 OF 12

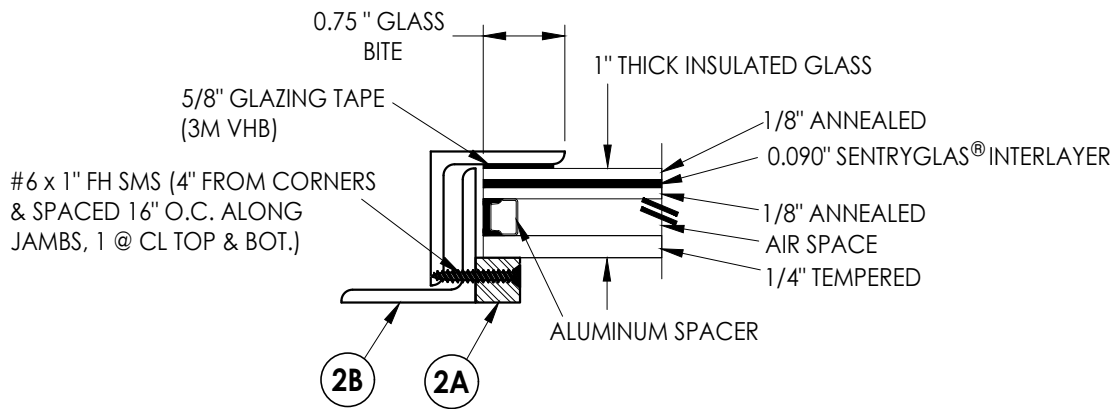
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

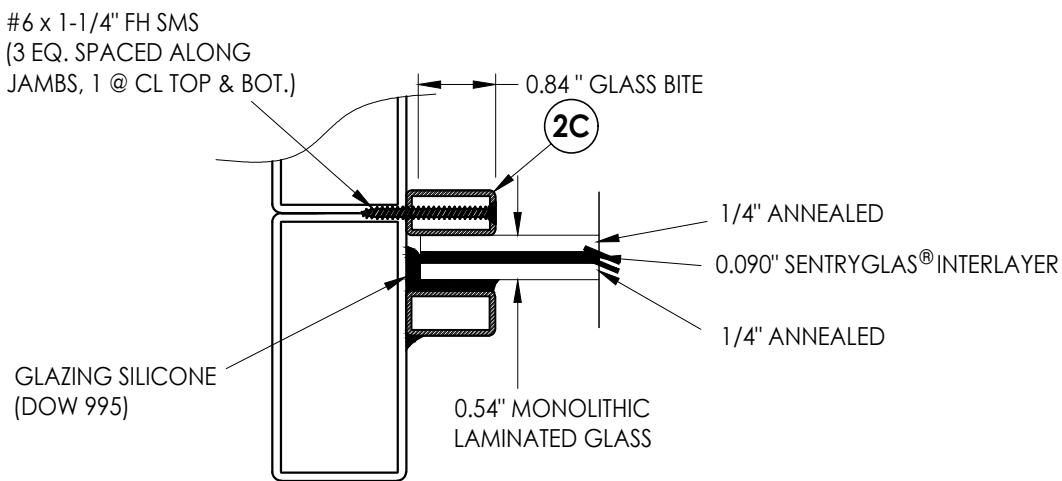
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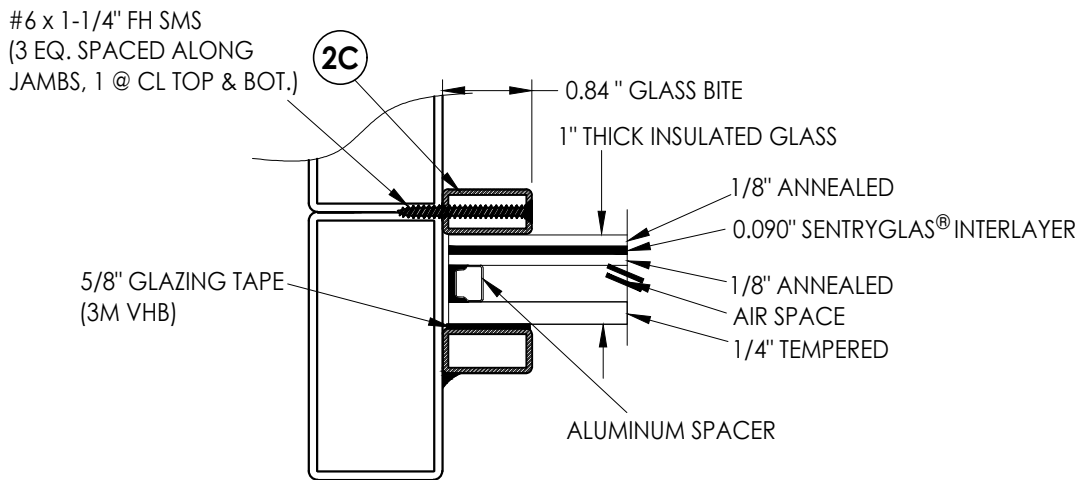
G1 GLAZING DETAIL
Operable Door/Sidelite



G2 GLAZING DETAIL
Operable Door/Sidelite



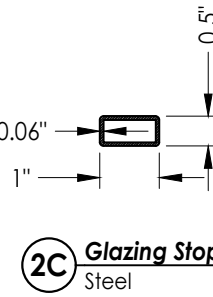
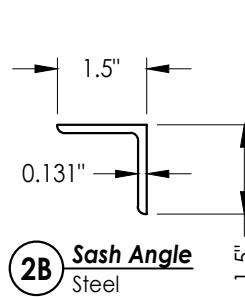
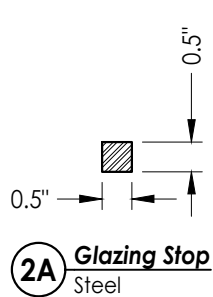
G1 GLAZING DETAIL
Fixed Sidelite/Transom



G2 GLAZING DETAIL
Fixed Sidelite/Transom

GLAZING DESIGN PRESSURE LIMITATIONS

GLAZING	MAX. DESIGN PRESSURE (PSF)	
	POS.	NEG.
G1	+75.0	-75.0
G2	+65.0	-65.0



Documents Prepared By:
Lyndon F. Schmidt
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BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

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

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

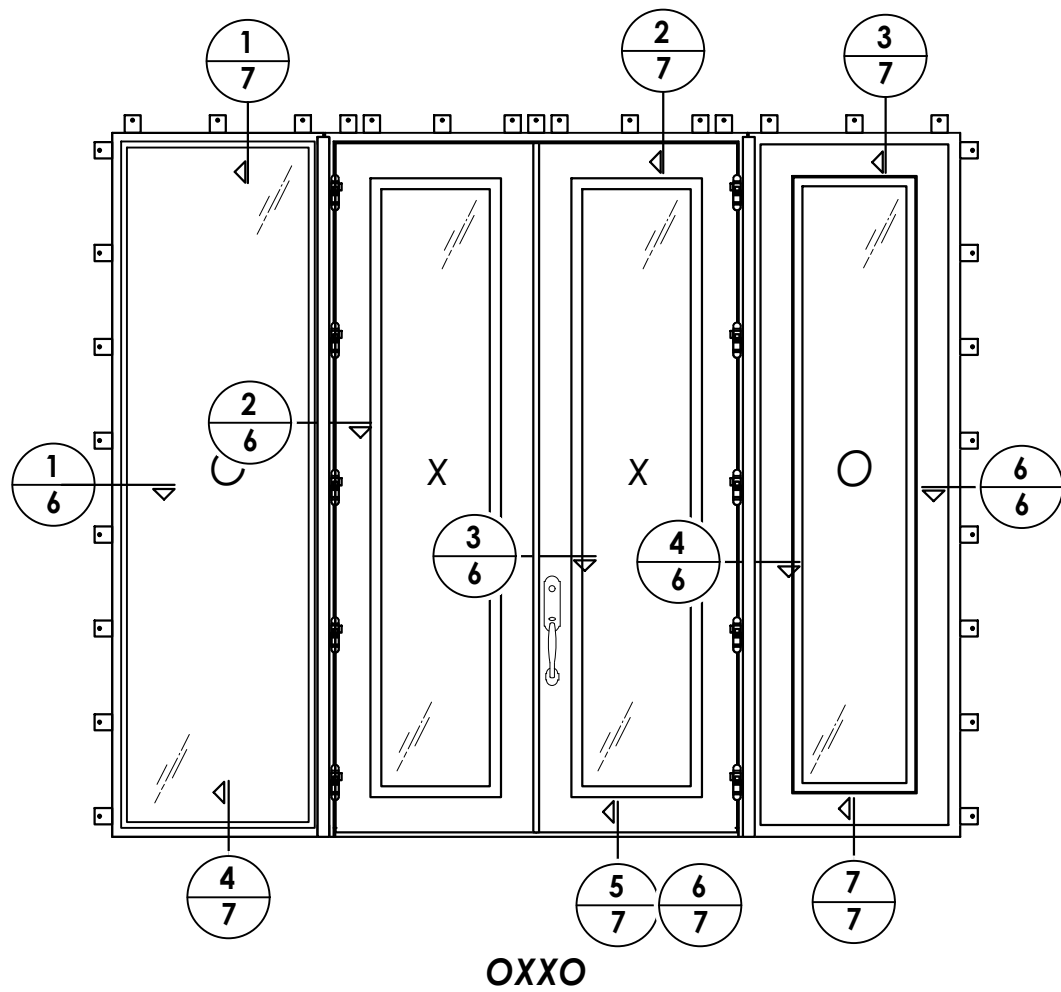
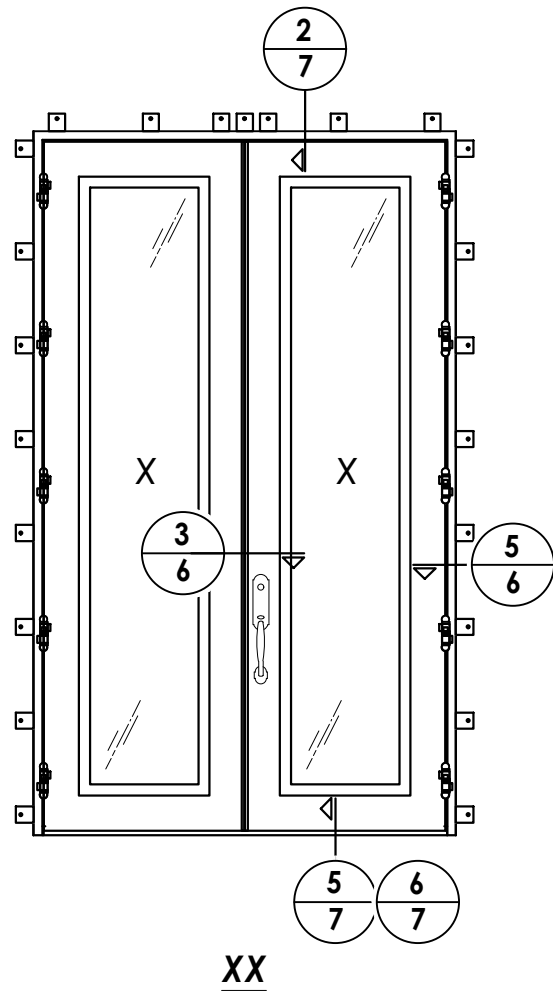
SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-16663.17

SHEET 4 OF 12



LOCK HARDWARE DESIGN PRESSURE LIMITATIONS

MANUFACTURER	MODEL	MAX. DESIGN PRESSURE (PSF)	
		POS.	NEG.
EMTEK	TUBULAR ENTRY SET (SHERIDAN - 451812)	+75.0	-75.0
SUN VALLEY BRONZE ACCURATE LOCK & HARDWARE	LEVER/KNOB ENTRY SET (RIDGE: CS-421PLD) MORTISE LOCK	+65.0	-65.0
ASHLEY NORTON	TUBULAR ENTRY SET (SQTUB w/ 900 SERIES KNOB)	+65.0	-65.0
ASHLEY NORTON ACCURATE LOCK & HARDWARE	MORTISE LOCK (SQMOR w/ 900 SERIES KNOB) MORTISE LOCK	+65.0	-65.0

			4	7/05/23	UPDATE TO 8TH ED. (2023)	FBC
			3	9/09/20	UPDATE TO 7TH ED. (2020)	FBC
			2	8/30/17	UPDATE TO 6TH ED. (2017)	FBC
			1	8/17/15	UPDATE TO 5TH ED. (2014)	FBC
			NO.	DATE		BY
REVISIONS						
DATE: 10/30/13						
SCALE: N.T.S.						
DWG. BY: JK						
CHK. BY: LFS						
DRAWING NO.: FL-16663.17						
SHEET 5 OF 12						

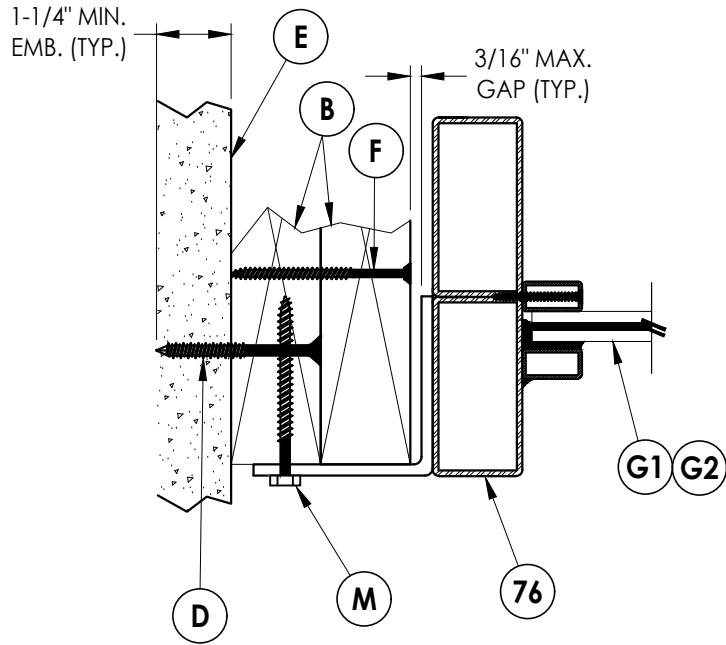
PRODUCT: CLARK HALL IRON DOORS	PART OR ASSEMBLY: ELEVATIONS
-----------------------------------	---------------------------------

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

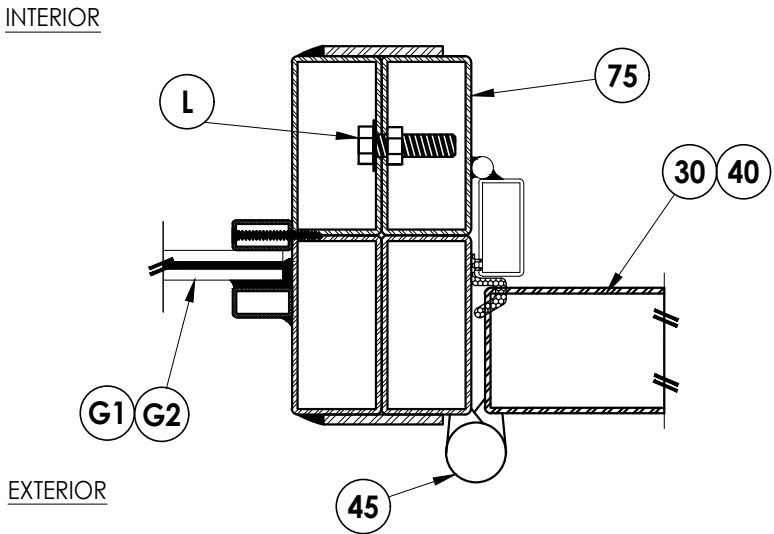
RW BUILDING CORP.
P.O. Box 2300
Phone No.:
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Phone No.: 813.659.9197
FBPE Registry No. 9813

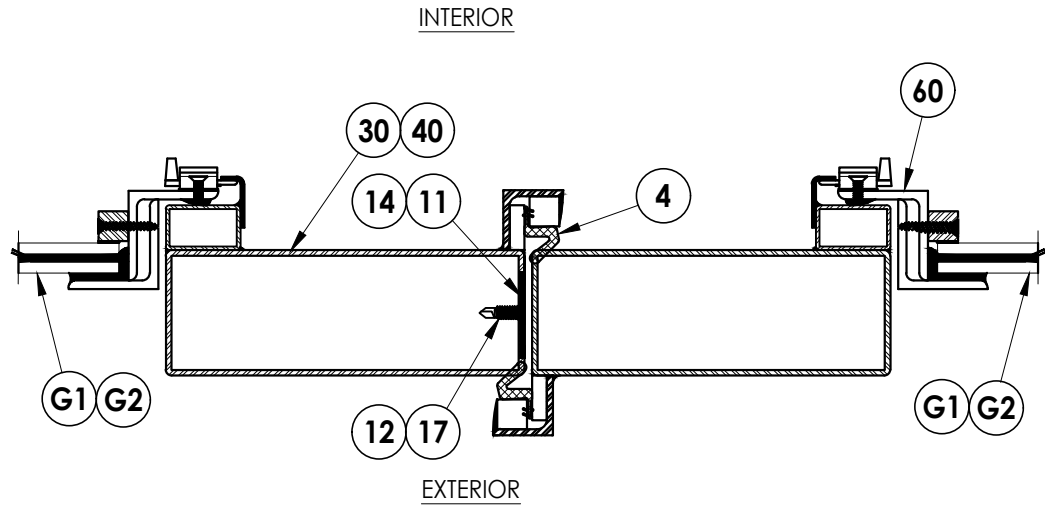
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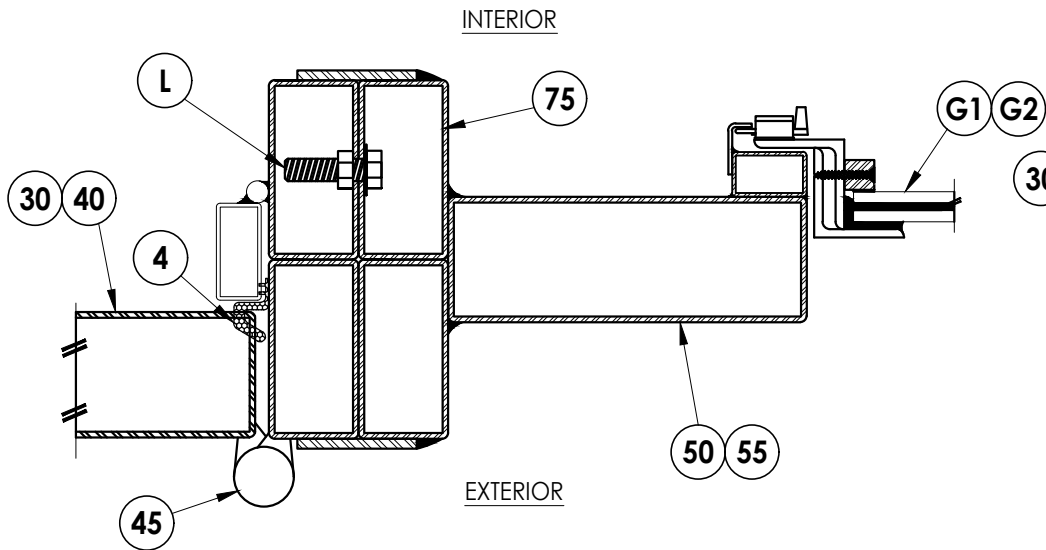
1
6 HORIZONTAL CROSS SECTION



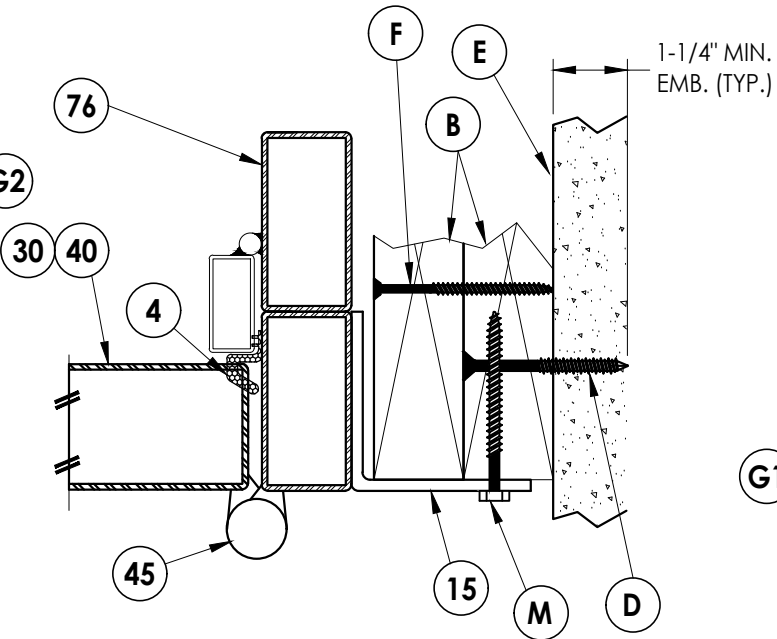
2
6 HORIZONTAL CROSS SECTION
Outswing Shown (Inswing Similar)



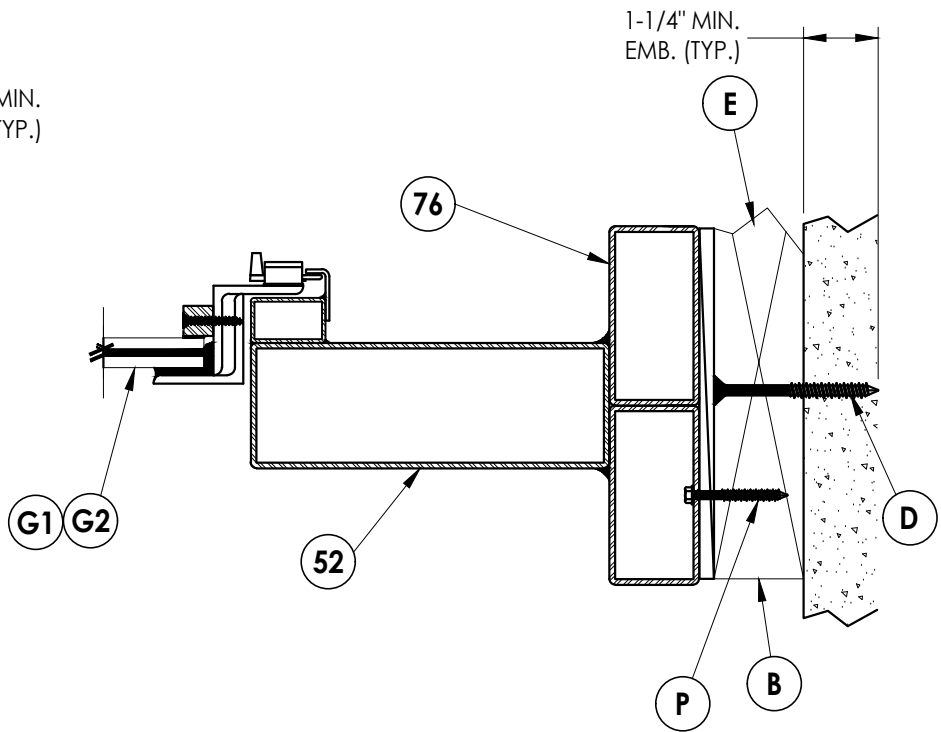
3
6 HORIZONTAL CROSS SECTION
Outswing Shown (Inswing Similar)



4
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

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

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: CLARK HALL IRON DOORS

PART OR ASSEMBLY:
HORIZONTAL
CROSS SECTIONS

NO.	DATE	REVISIONS
4	7/05/23	UPDATE TO 8TH ED. (2023) FBC
3	9/09/20	UPDATE TO 7TH ED. (2020) FBC
2	8/30/17	UPDATE TO 6TH ED. (2017) FBC
1	8/17/15	UPDATE TO 5TH ED. (2014) FBC

DATE: 10/30/13

SCALE: N.T.S.

DWG. BY: JK

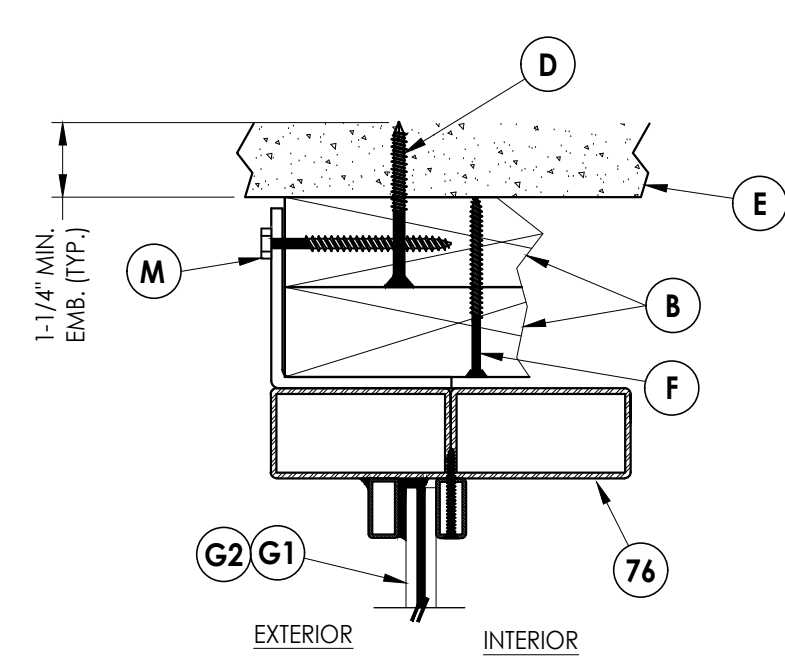
CHK. BY: LFS

DRAWING NO.:

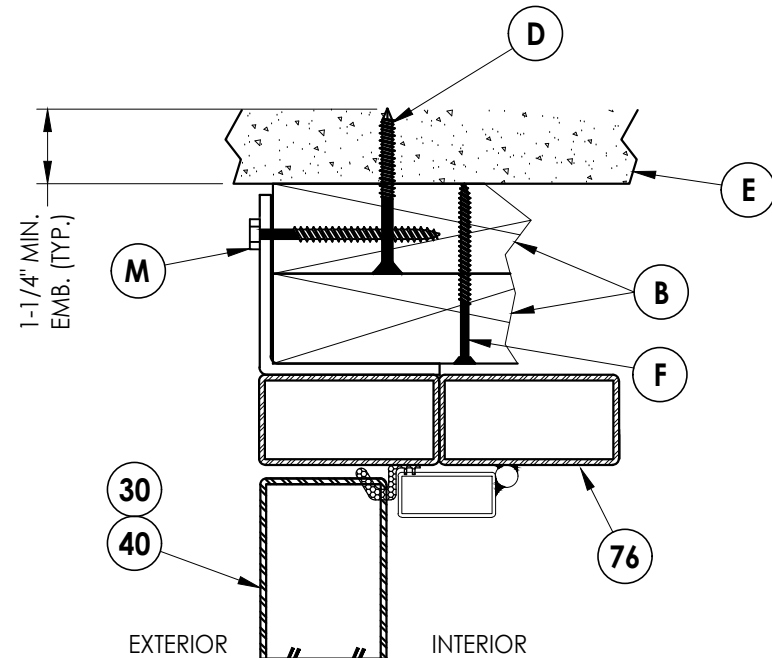
FL-16663.17

SHEET 6 OF 12

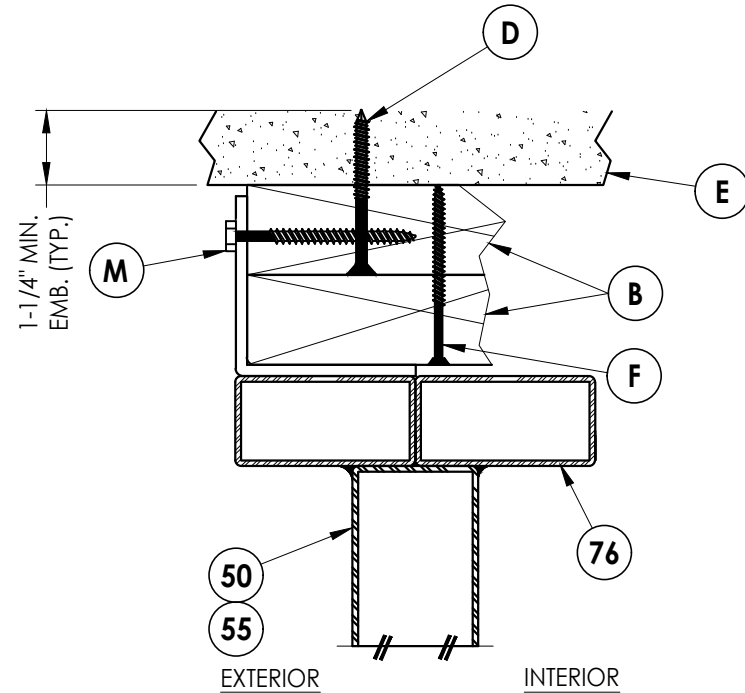
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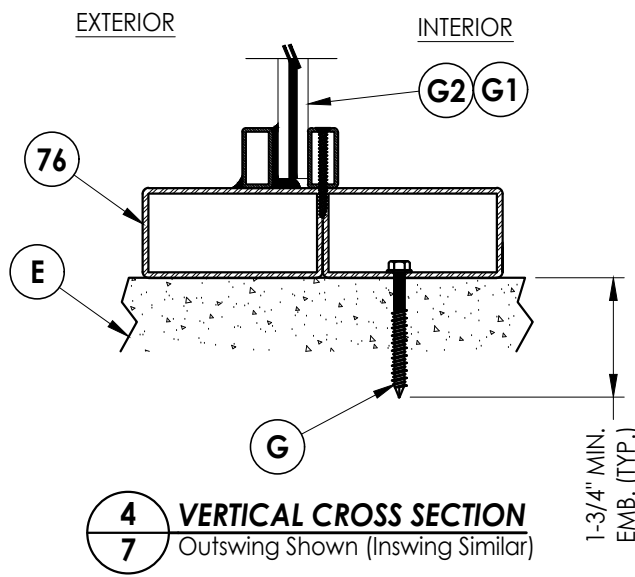
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7 **VERTICAL CROSS SECTION**
Outswing Shown (Inswing Similar)



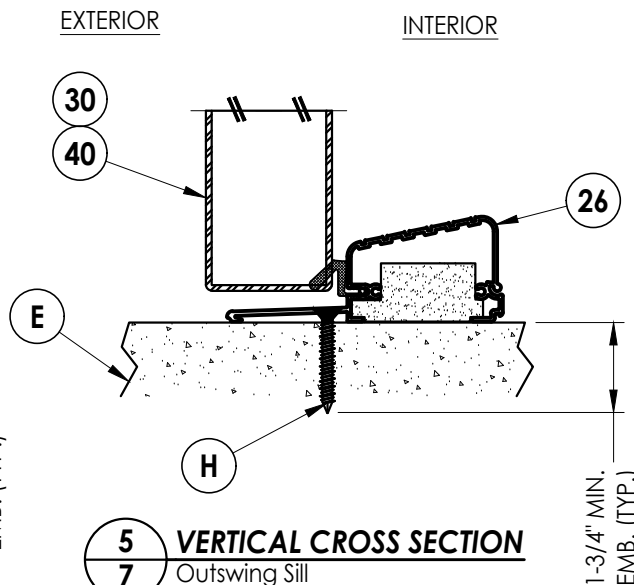
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7 **VERTICAL CROSS SECTION**
Outswing Shown (Inswing Similar)



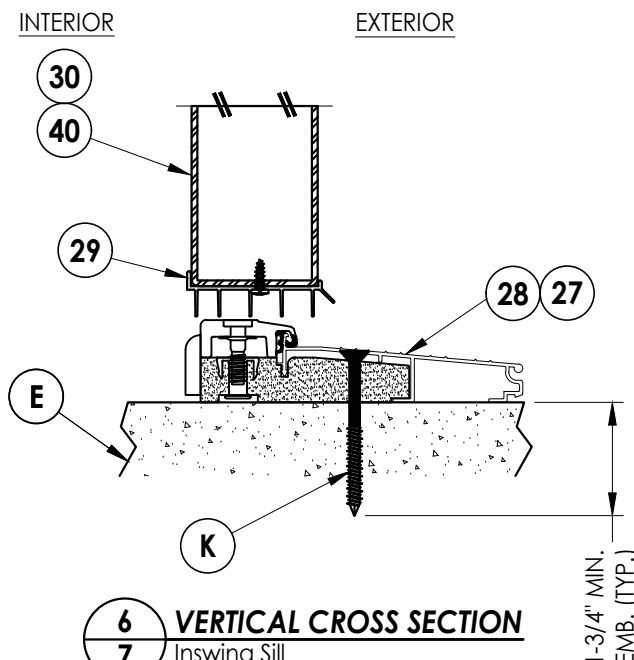
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7 **VERTICAL CROSS SECTION**
Outswing Shown (Inswing Similar)



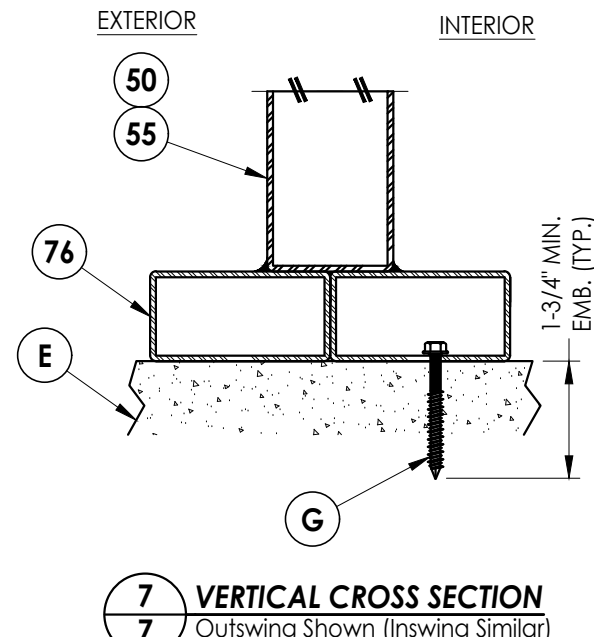
4
7 **VERTICAL CROSS SECTION**
Outswing Shown (Inswing Similar)



5
7 **VERTICAL CROSS SECTION**
Outswing Sill



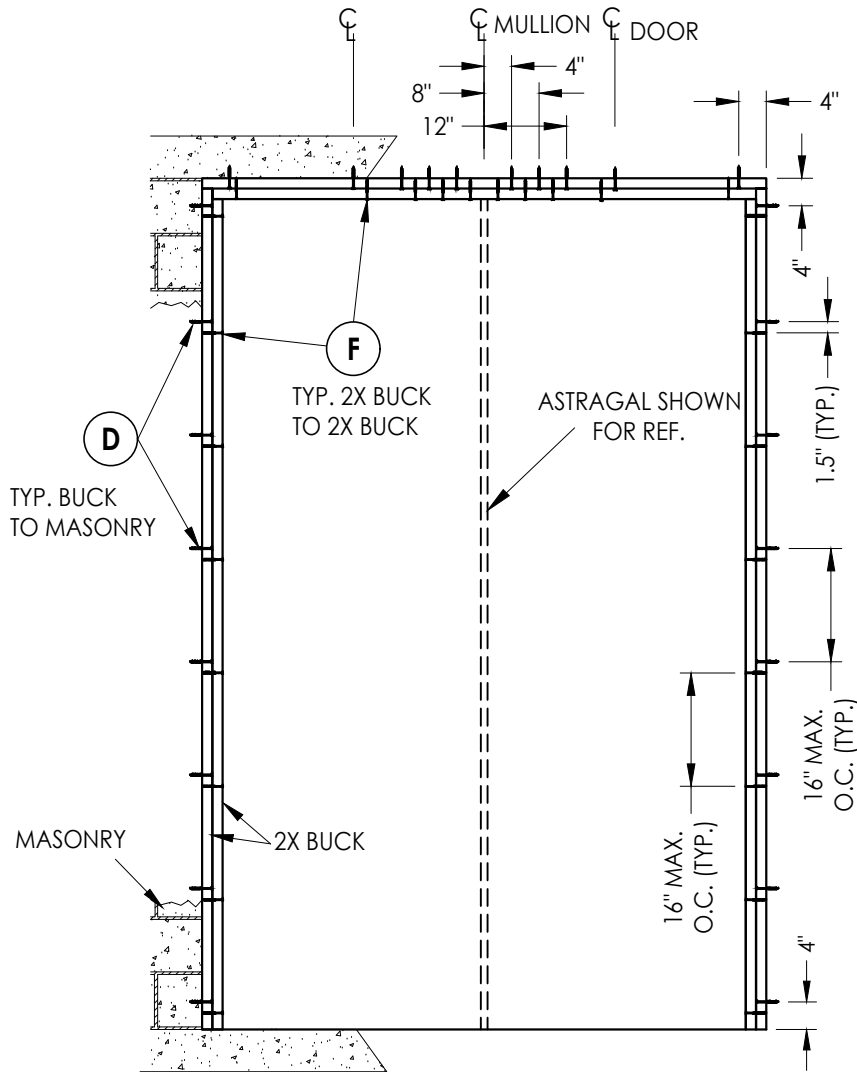
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7 **VERTICAL CROSS SECTION**
Inswing Sill



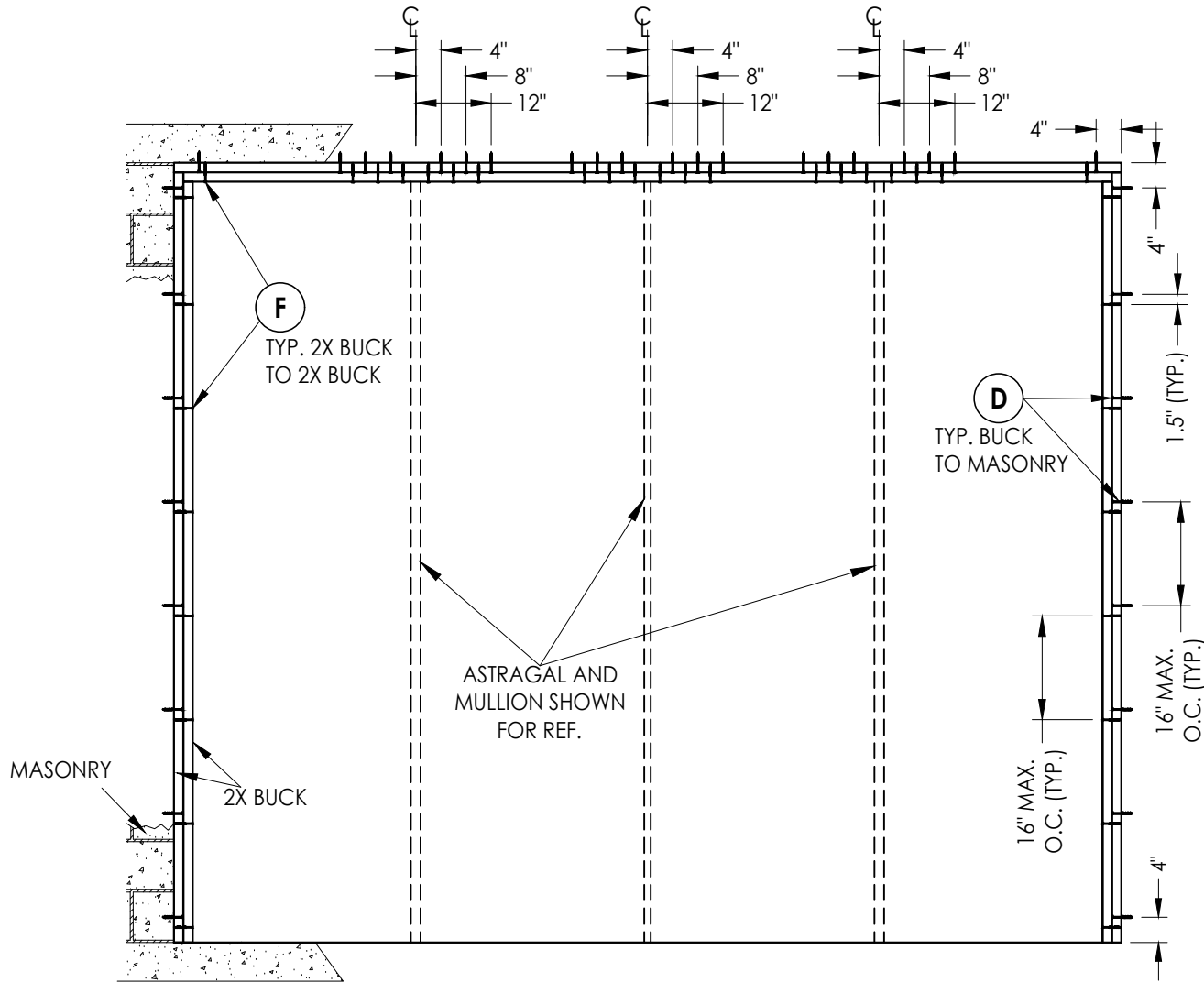
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7 **VERTICAL CROSS SECTION**
Outswing Shown (Inswing Similar)

DATE: 10/30/13		PRODUCT:		Documents Prepared By:	
SCALE: N.T.S.		CLARK HALL IRON DOORS		Lyndon F. Schmidt	
DWG. BY: JK				P.E. No. 43409	
CHK. BY: LFS					
DRAWING NO.: FL-16663.17					
SHEET 7 OF 12					
		PART OR ASSEMBLY:		BUILDING CONSULTANTS, INC.	
				P.O. Box 230, Valrico, FL 33595	
				Phone No.: 813.659.9197	
				FBPE Registry No. 9813	
		VERTICAL CROSS SECTIONS			

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BUCK ANCHORING
XX



BUCK ANCHORING
OXXO

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"	3"	4"
DeWALT ULTRACON®	1/4"	1-1/4"	3"	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:
Lyndon F. Schmidt
P.E. No. 43409

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:
CLARK HALL IRON DOORS

PART OR ASSEMBLY:
BUCK ANCHORING

NO.	DATE	REVISIONS
4	7/05/23	UPDATE TO 8TH ED. (2023) FBC LFS
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1	8/17/15	UPDATE TO 5TH ED. (2014) FBC LFS

DATE: 10/30/13

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-16663.17

SHEET 8 OF 12

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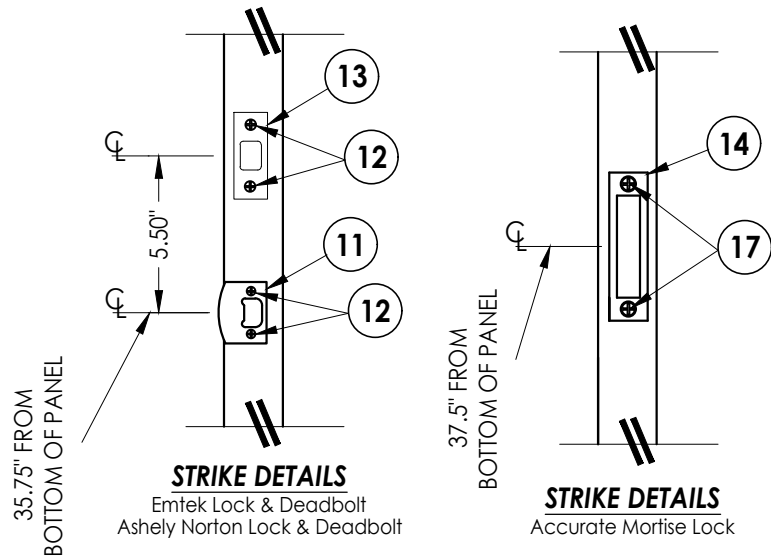
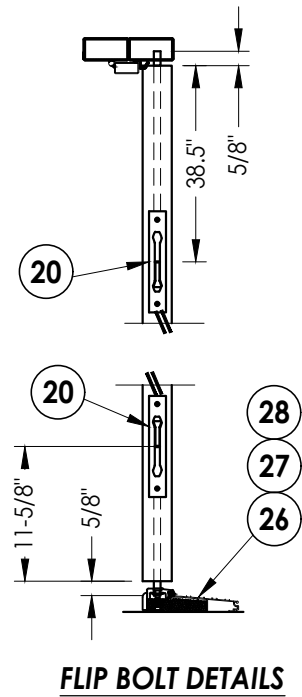
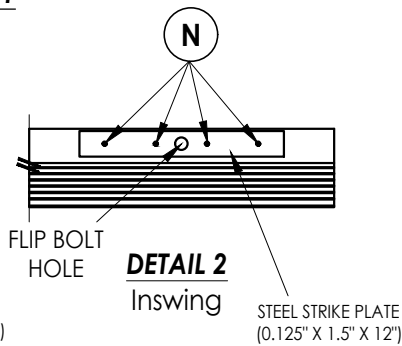
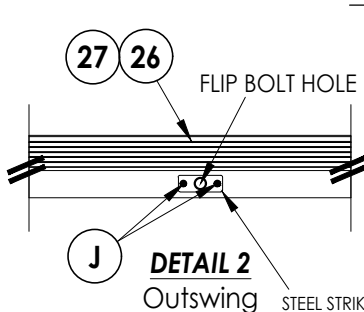
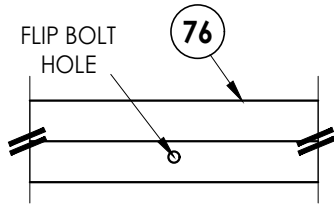
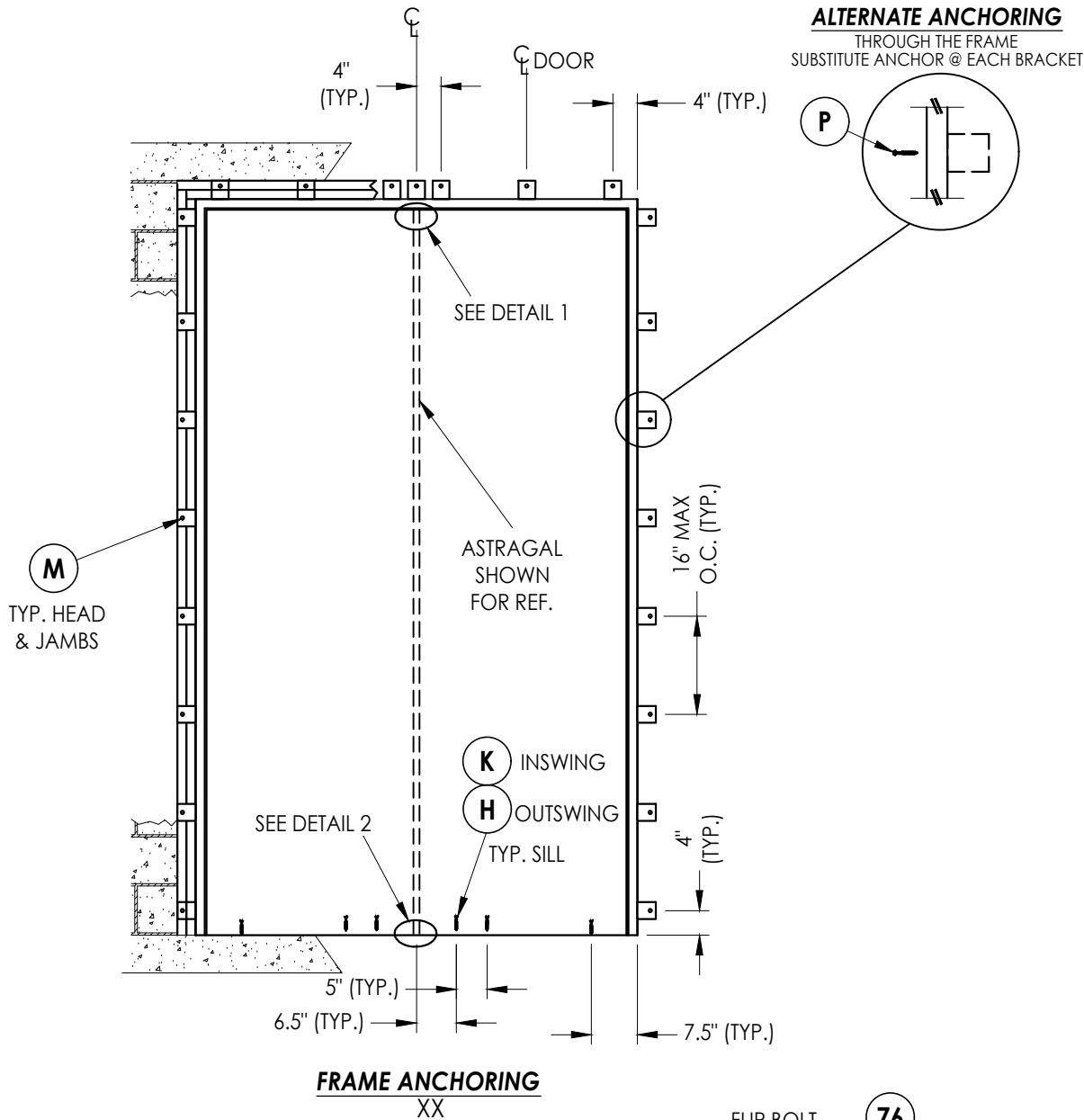
CONCRETE ANCHOR NOTES:

- 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®	3/16"	1-1/4"	3"	2-1/2"
	5/16" (XL)	1-3/4"	2-1/2"	5"
DeWALT ULTRACON®	5/16"	1-3/4"	2-1/2"	5"

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:

Lyndon F. Schmidt
P.E. No. 43409

PRODUCT:
CLARK HALL IRON DOORS

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PART OR ASSEMBLY:

FRAME ANCHORING

DATE: 10/30/13

SCALE: N.T.S.

DWG. BY: JK

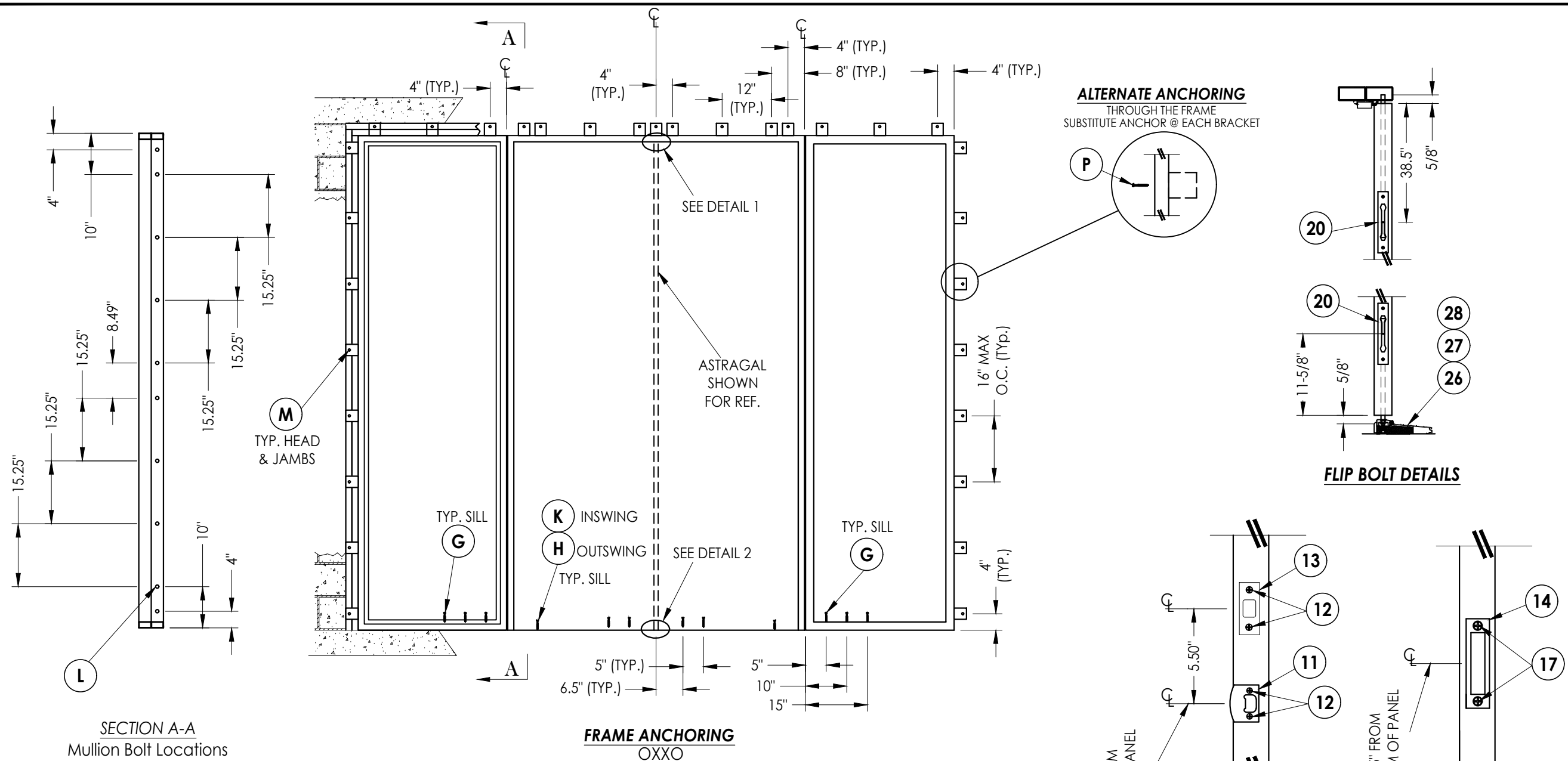
CHK. BY: LFS

DRAWING NO.:

FL-16663.17

SHEET 9 OF 12

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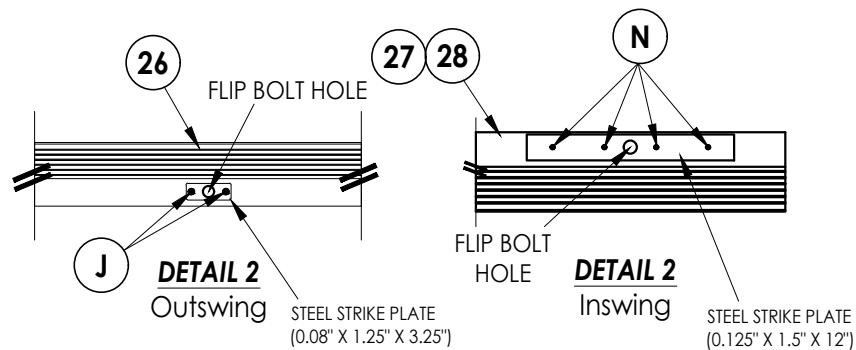
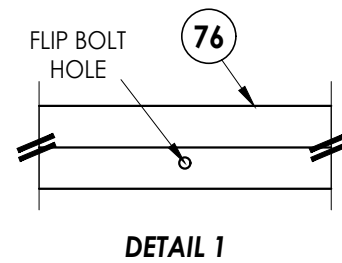
CONCRETE ANCHOR NOTES:

1. Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
2. 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.
3. Concrete anchor table:

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

WOOD SCREW INSTALLATION NOTES:

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

[illegible]

DATE: 10/30/13

SCALE: *N.T.S.*

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-16663.17

SHEET 10 OF 12

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

CLARK HALL IRON DOORS

PART OR ASSEMBLY:

FRAME ANCHORING

Building Consultants, Inc.

P.O. Box 230, Valrico, FL 33595
Phone No: 813 650 9107

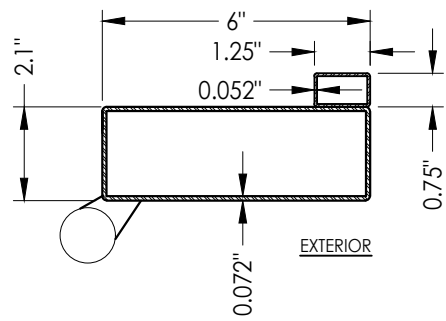
F.O. BOX 230, VAILCO, FL
Phone No.: 813.659.9197

Phone No.: 813.659.9197

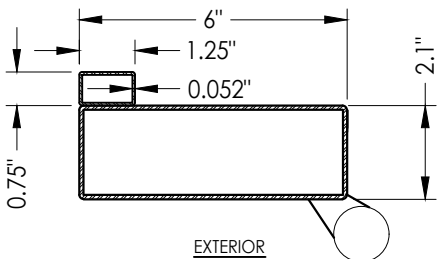
FBPE Registry No. 9813

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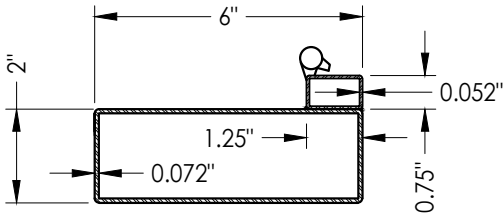
Z:\2023 FBC Drawings\Claek Hall Doors & Windows\FL-16663 R5\FL-16663.16-.18.dwg



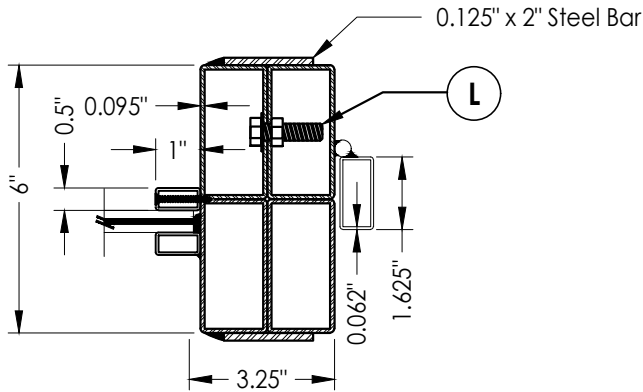
41 Full Lite Door Panel
Inactive Hinge Stile



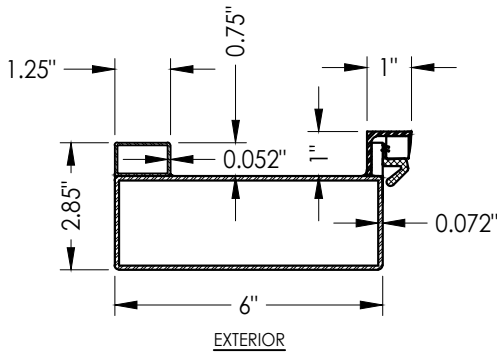
31 Full Lite Door Panel
Active Hinge Stile



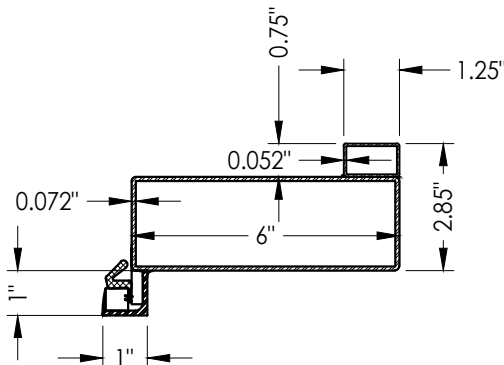
51 Sidelite Panel
Operable Sash Hinge Stile



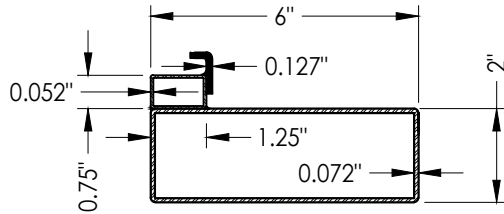
75 Vertical Mull
with Direct Set Sidelite



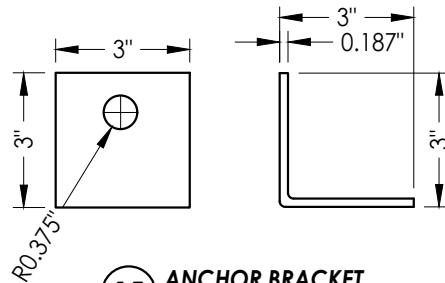
42 Full Lite Door Panel
Inactive Latch Stile



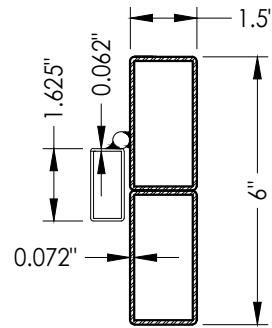
32 Full Lite Door Panel
Active Latch Stile



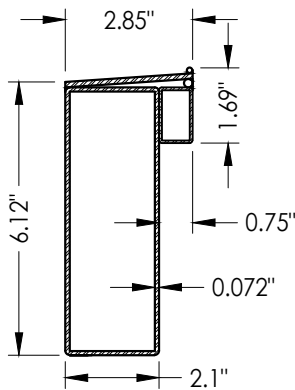
52 Sidelite Panel
Operable Sash Latch Stile



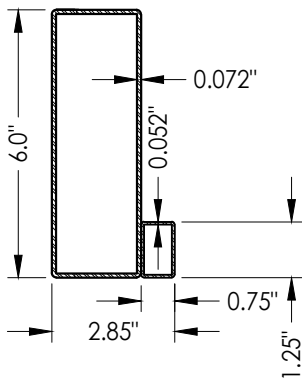
15 ANCHOR BRACKET



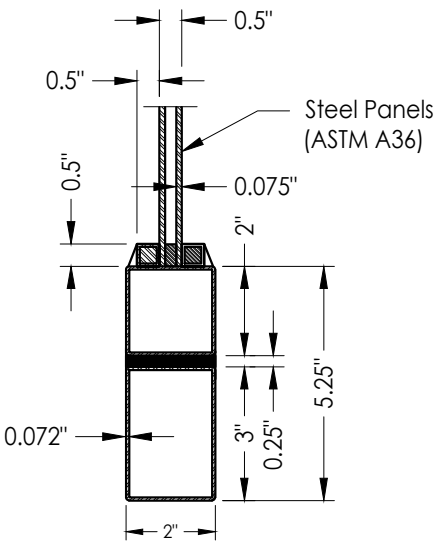
76 Jamb



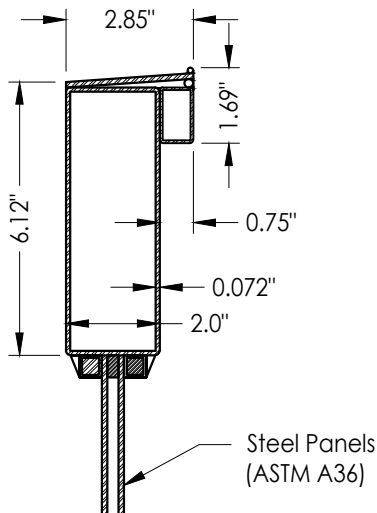
43 Full Lite Door Panel
Bottom Rail



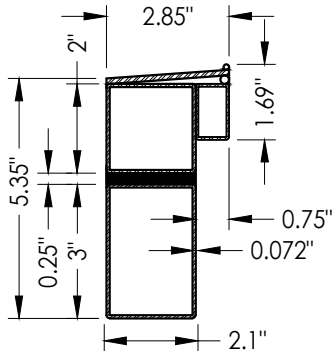
44 Full Lite Door Panel
Top Rail



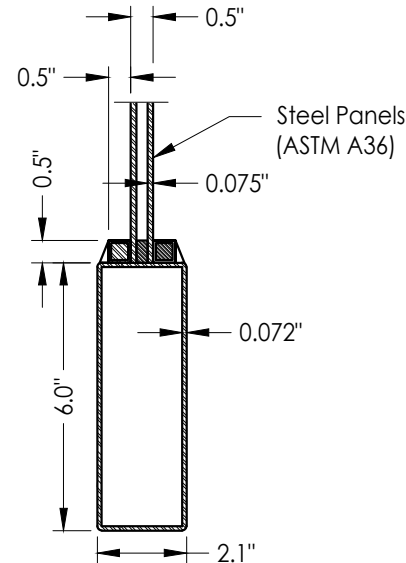
54 Bottom Rail
3/4 Lite Sidelite Panel



56 Mid Rail
3/4 Lite Sidelite Panel



53 Bottom Rail
Sidelite Panel



57 Bottom Rail
3/4 Lite Door Panel

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

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: CLARK HALL IRON DOORS

PART OR ASSEMBLY:

COMPONENTS

NO.	DATE	REVISIONS
4	7/05/23	UPDATE TO 8TH ED. (2023) FBC LFS
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: 10/30/13

SCALE: N.T.S.

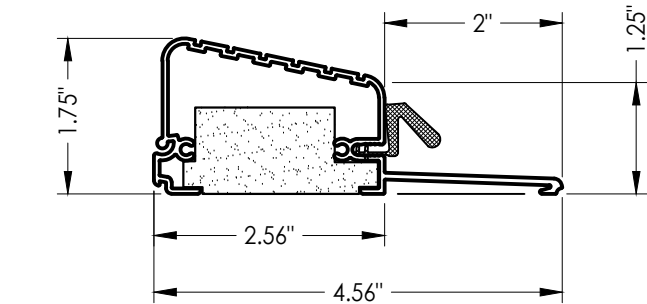
DWG. BY: JK

CHK. BY: LFS

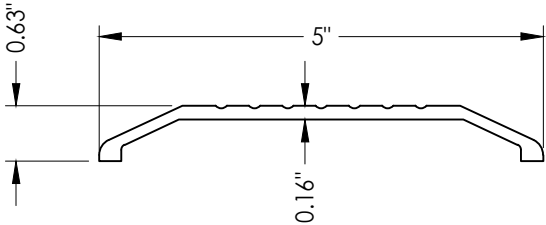
DRAWING NO.: FL-16663.17

SHEET 11 OF 12

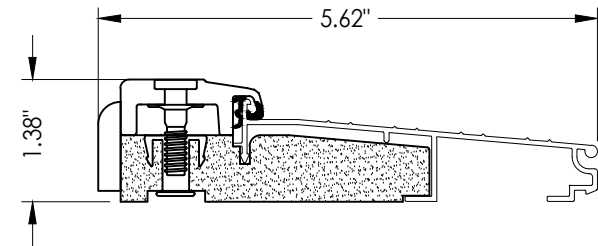
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
B	2X BUCK SG >= 0.55	WOOD
D	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	#10 X 3" PFH WOOD SCREW	STEEL
G	5/16" X 2-1/4" HH DeWALT OR ITW CONCRETE SCREW	STEEL
H	5/16" X 2-1/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
J	3/16" X 2-1/4" PFH 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
N	3/16" X 2-3/4" PFH ITW CONCRETE SCREW	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
40	DOOR PANEL (3/4 LITE)	-
41	HINGE STILE (INACTIVE DOOR)	ASTM A36 STEEL
42	LATCH STILE (INACTIVE 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
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

DATE: 10/30/13		PRODUCT:		Documents Prepared By:	
SCALE: N.T.S.		CLARK HALL IRON DOORS		Lyndon F. Schmidt	
DWG. BY: JK				P.E. No. 43409	
CHK. BY: LFS				 BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
DRAWING NO.: FL-16663.17		PART OR ASSEMBLY:			
		BILL OF MATERIALS & COMPONENTS			
SHEET 12 OF 12		REVISONS			
		NO.	DATE		
		1	8/17/15	UPDATE TO 5TH ED. (2014)	LFS
		2	8/30/17	UPDATE TO 6TH ED. (2017)	LFS
		3	9/09/20	UPDATE TO 7TH ED. (2020)	LFS
		4	7/05/23	UPDATE TO 8TH ED. (2023)	LFS