



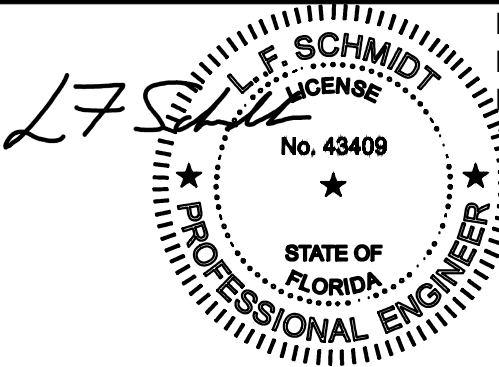
CLINE ALUMINUM DOORS, INC.
112 32nd AVENUE WEST, BRADENTON, FL 34205-8096
Telephone (800) 648-6736

**SERIES 100BE
ALUMINUM DOOR
OUTSWING
"IMPACT"**

GENERAL NOTES

- 1. 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).
- 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 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.
- 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.

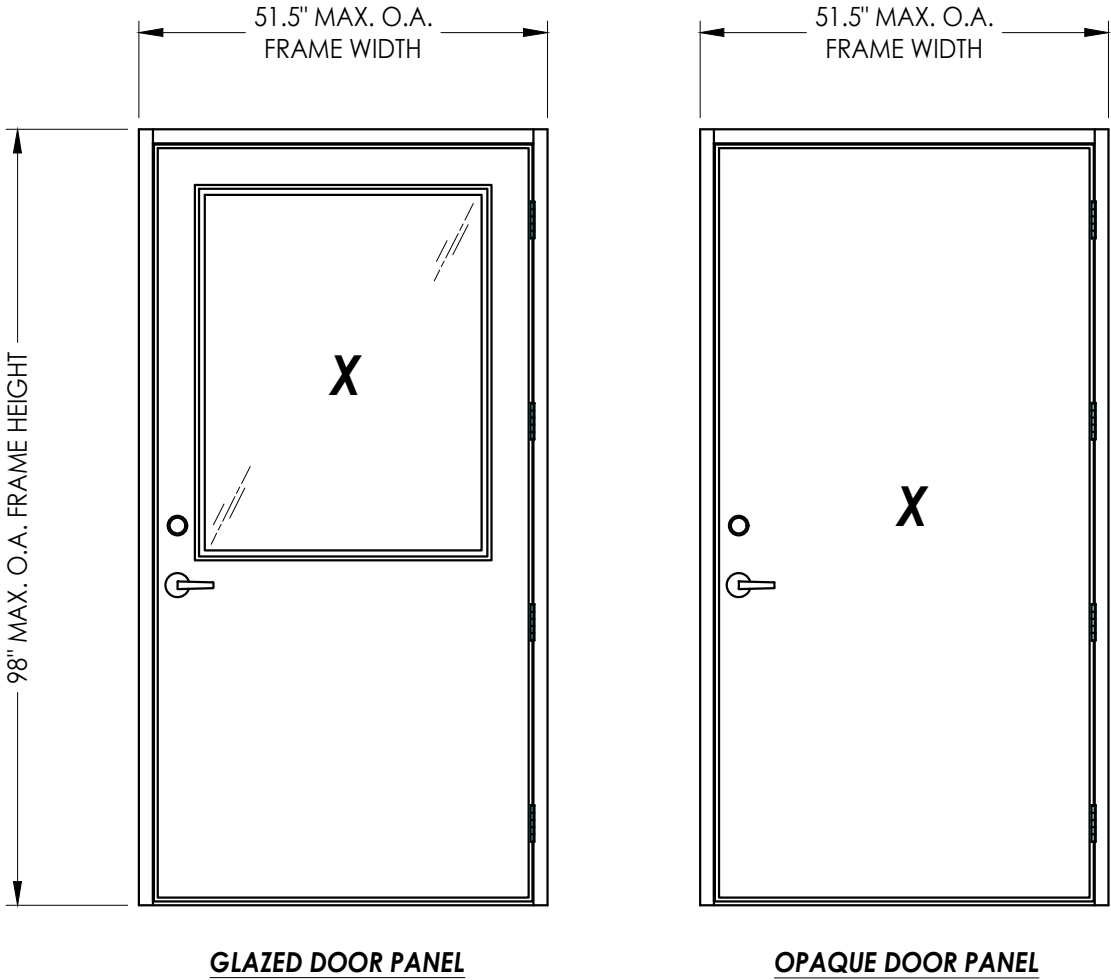
TABLE OF CONTENTS	
SHEET#	DESCRIPTION
1	Typical elevations, design pressures & general notes
2	Door panel details and glazing detail
3	Horizontal cross sections
4	Vertical cross sections
5	Buck and frame anchoring (4' X 8')
6	Buck and frame anchoring (3' X 7')
7	Bill of materials and components



Digitally signed by
Lyndon F Schmidt
Date: 2025.07.24
10:12:38 -04'00'

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



LOCK HARDWARE	MAX. FRAME DIMENSION	MAX. DOOR D.L.O. DIMENSION	DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
LATCH & DEADBOLT or MORTISE LOCK	51.5" x 98.0"	34.88" X 44.88"	+55.0	-55.0
	40.0" x 88.0"	22.75" X 32.75"	+90.0	-90.0

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

CLINE DOORS

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

			LFS	
		7/23/25	ADD MORTISE LOCK	
	7	7/05/23	UPDATE TO 8TH ED. (2023)	FBC
	6	8/11/20	UPDATE TO 7TH ED. (2020)	FBC
	5	7/7/17	UPDATE TO 6TH ED. (2017)	FBC
	4			
	3			
	2			
	1			

REVISIONS

DATE: 6/8/11

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

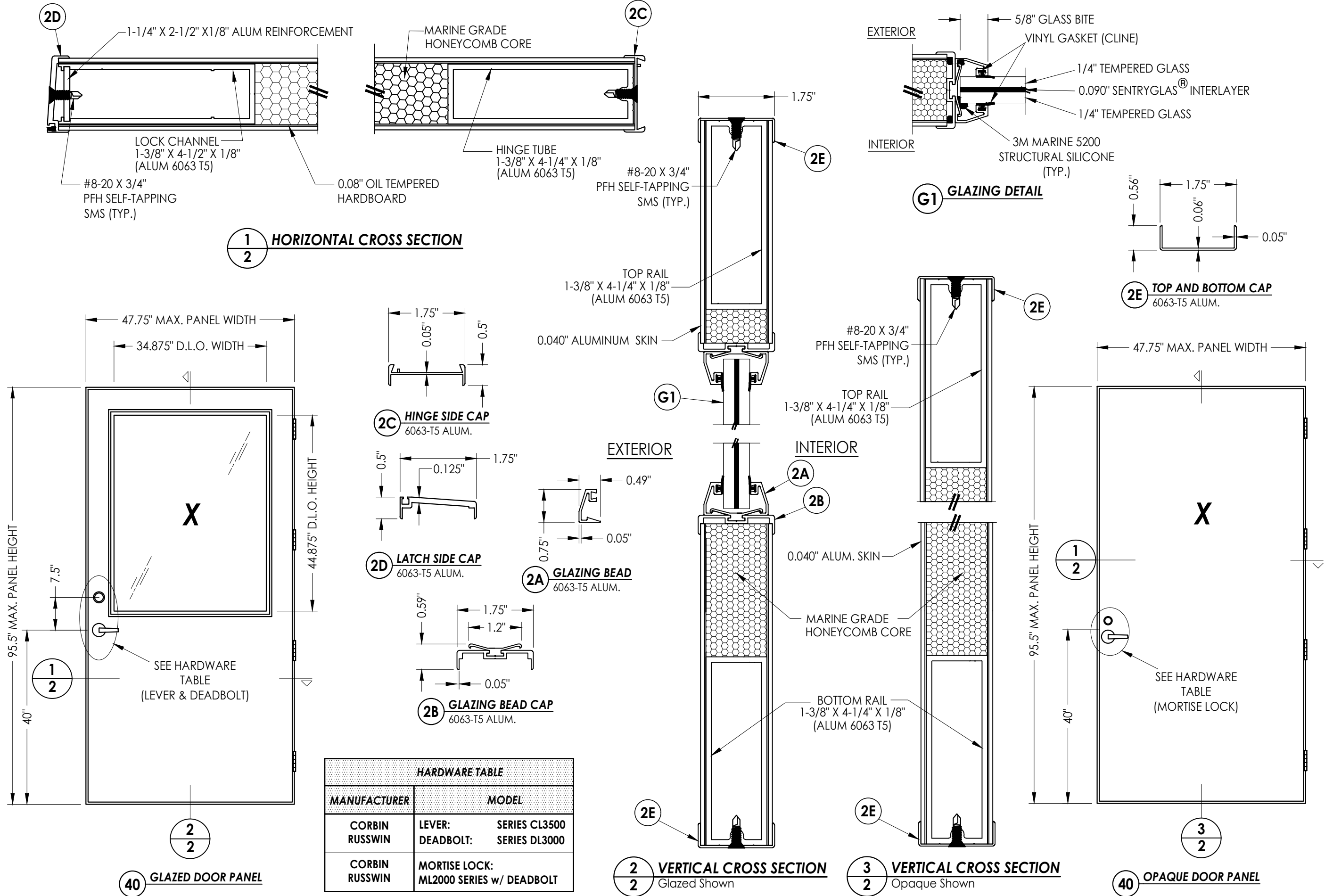
DRAWING NO.: FL-6336.2

SHEET 1 OF 7

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

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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: CLINE DOORS

PART OR ASSEMBLY:
DOOR PANEL DETAILS
AND GLAZING DETAIL

NO.	DATE	REVISIONS
7	7/23/25	ADD MORTISE LOCK
6	7/05/23	UPDATE TO 8TH ED. (2023) FBC
5	8/11/20	UPDATE TO 7TH ED.(2020) FBC
4	7/7/17	UPDATE TO 6TH ED.(2017) FBC
NO.	DATE	

DATE: 6/8/11

SCALE: N.T.S.

DWG. BY: JK

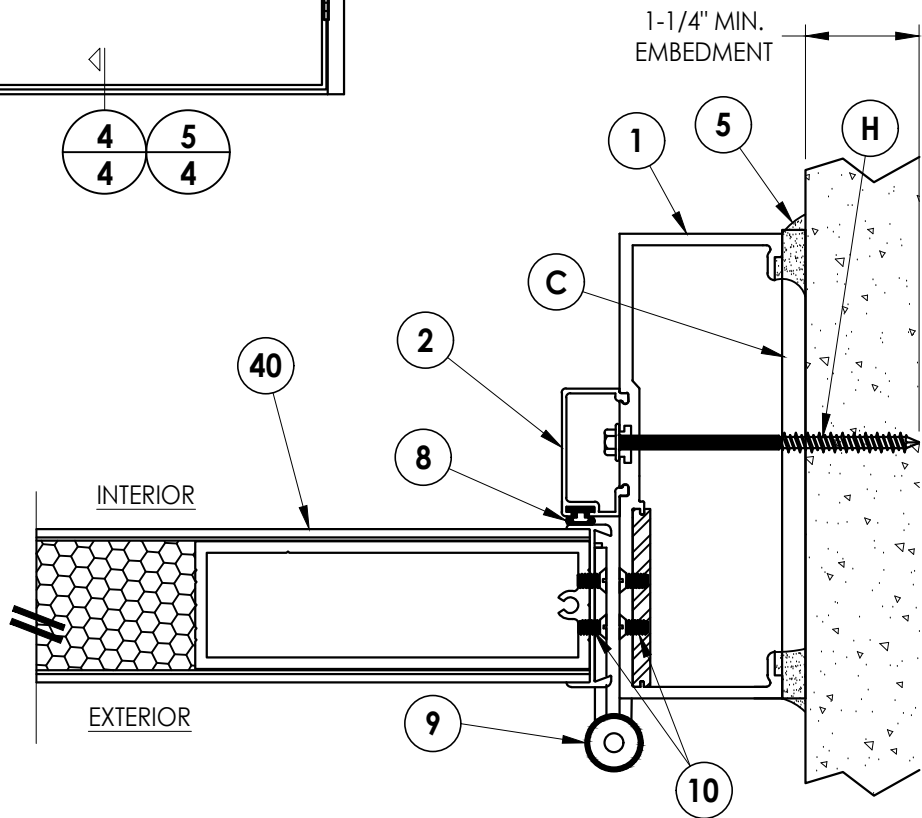
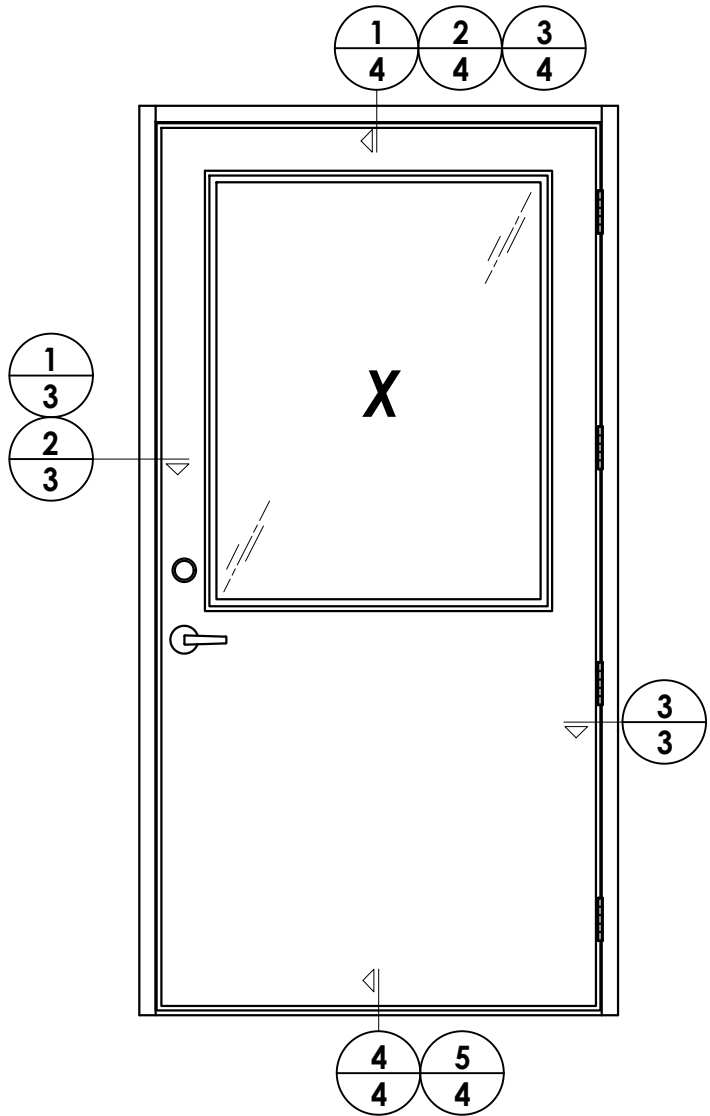
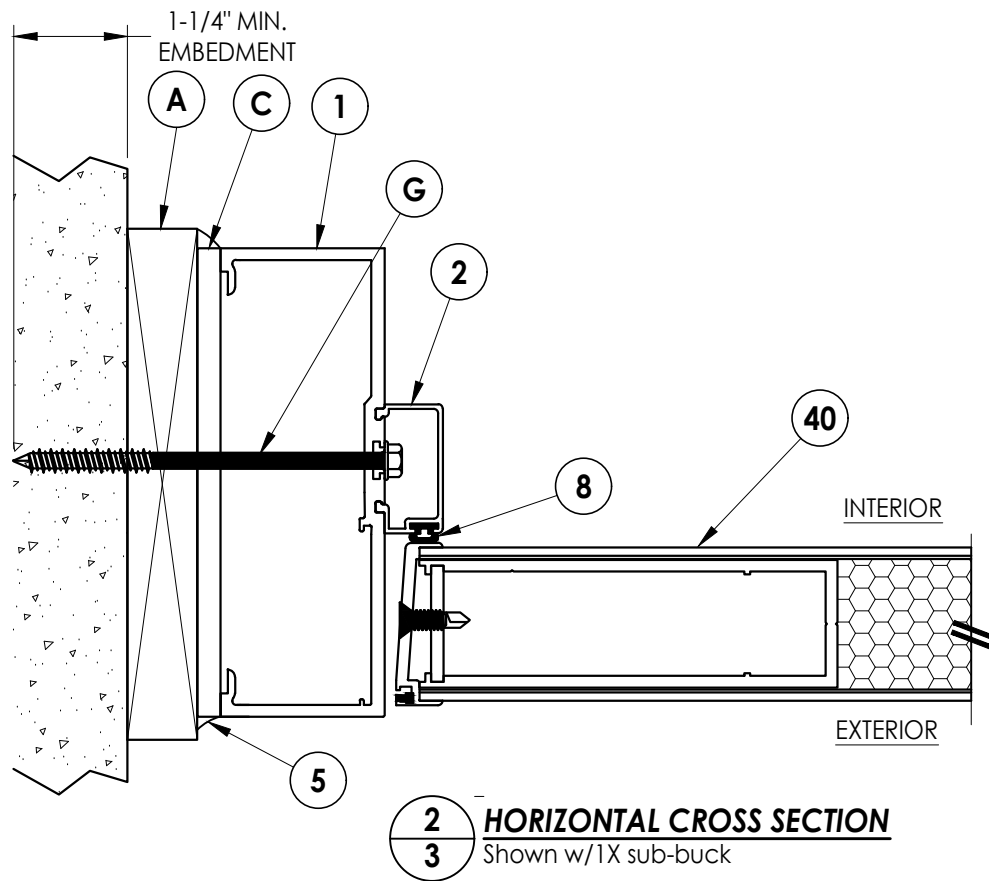
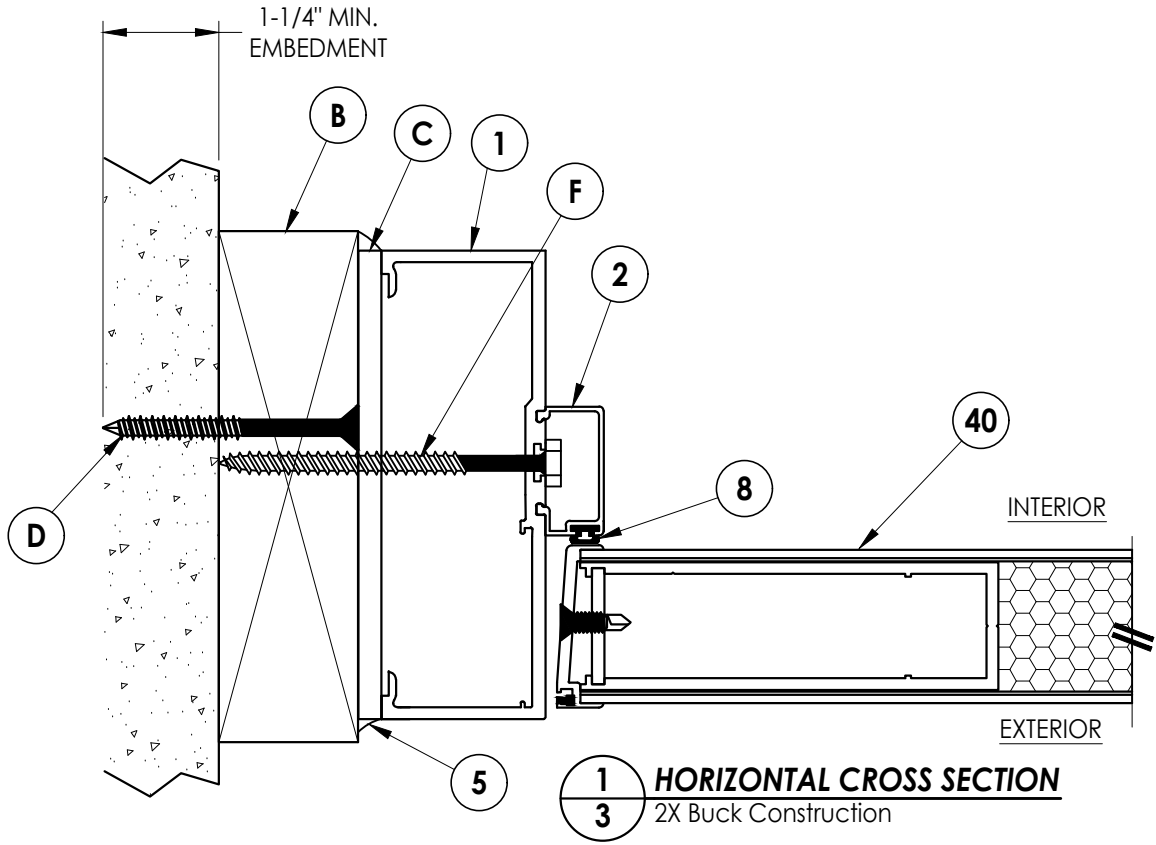
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DRAWING NO.:

FL-6336.2

SHEET 2 OF 7

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Lyndon F. Schmidt
P.E. No. 43409

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

PRODUCT: CLINE DOORS

PART OR ASSEMBLY:
HORIZONTAL CROSS SECTIONS

NO.	DATE	REVISIONS
7	7/23/25	ADD MORTISE LOCK
6	7/05/23	UPDATE TO 8TH ED. (2023)
5	8/11/20	UPDATE TO 7TH ED. (2020)
4	7/7/17	UPDATE TO 6TH ED. (2017)
3		
2		
1		

DATE: 6/8/11

SCALE: N.T.S.

DWG. BY: JK

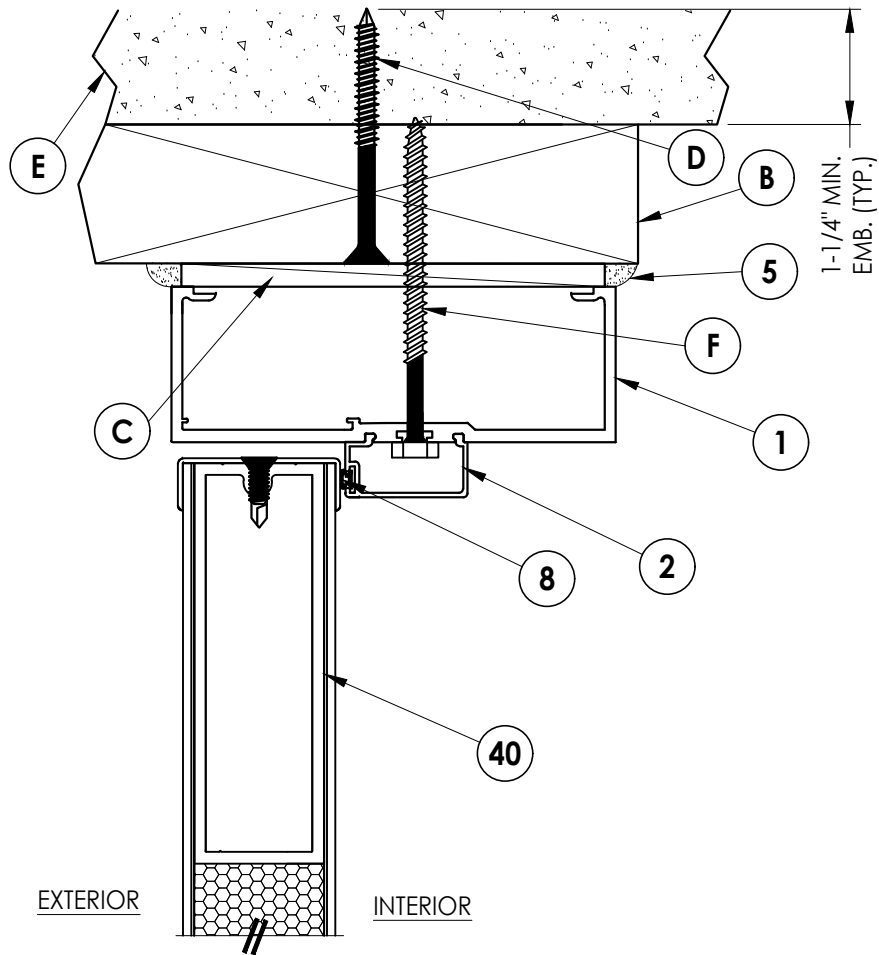
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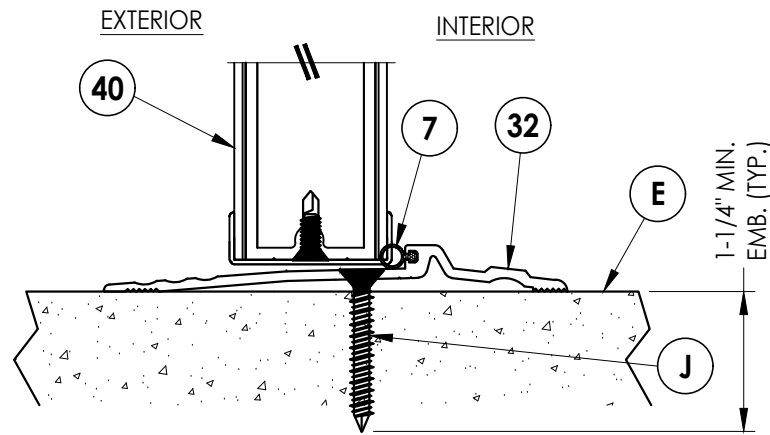
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SHEET 3 OF 7

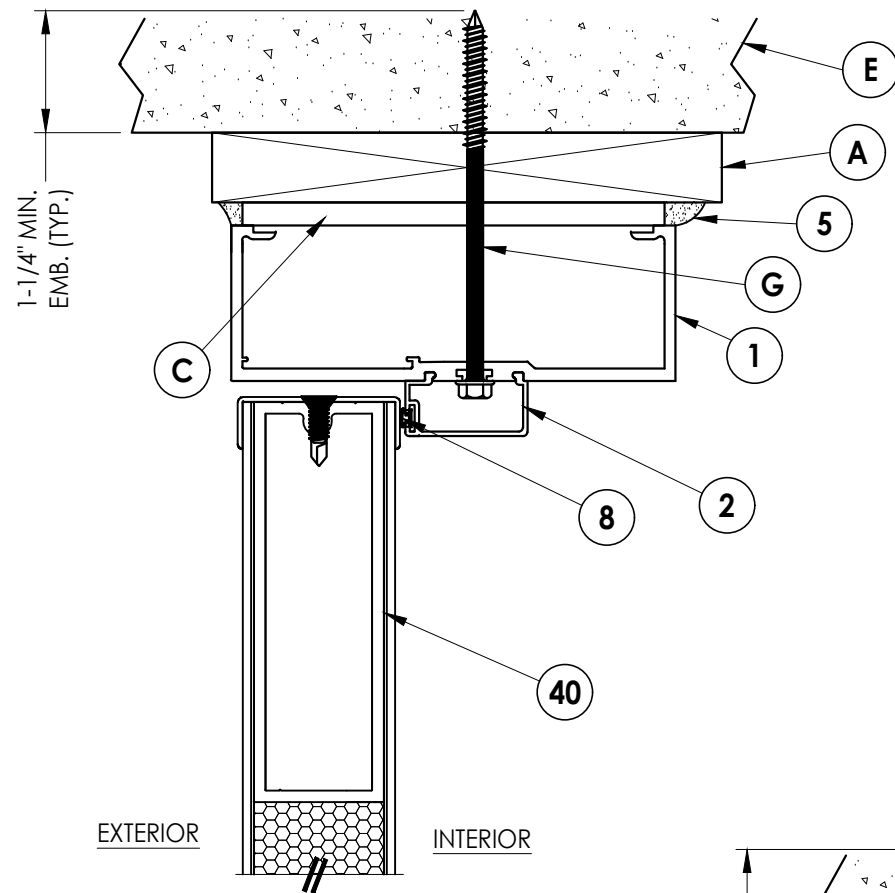
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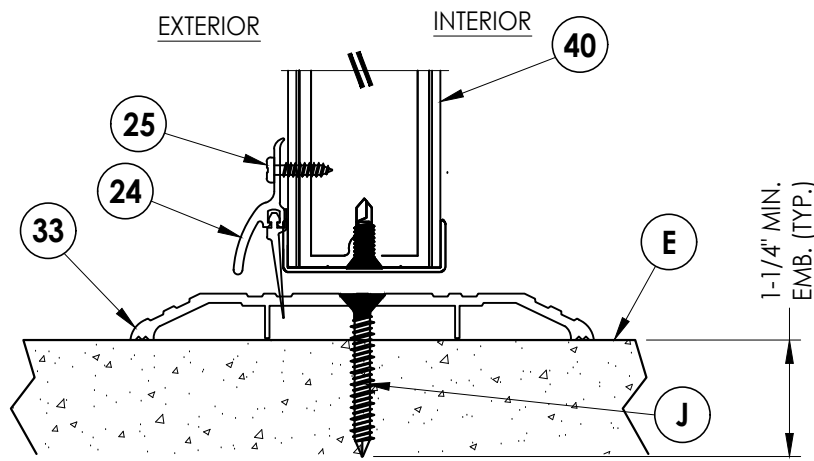
1
4 **VERTICAL CROSS SECTION**
2X Buck Construction



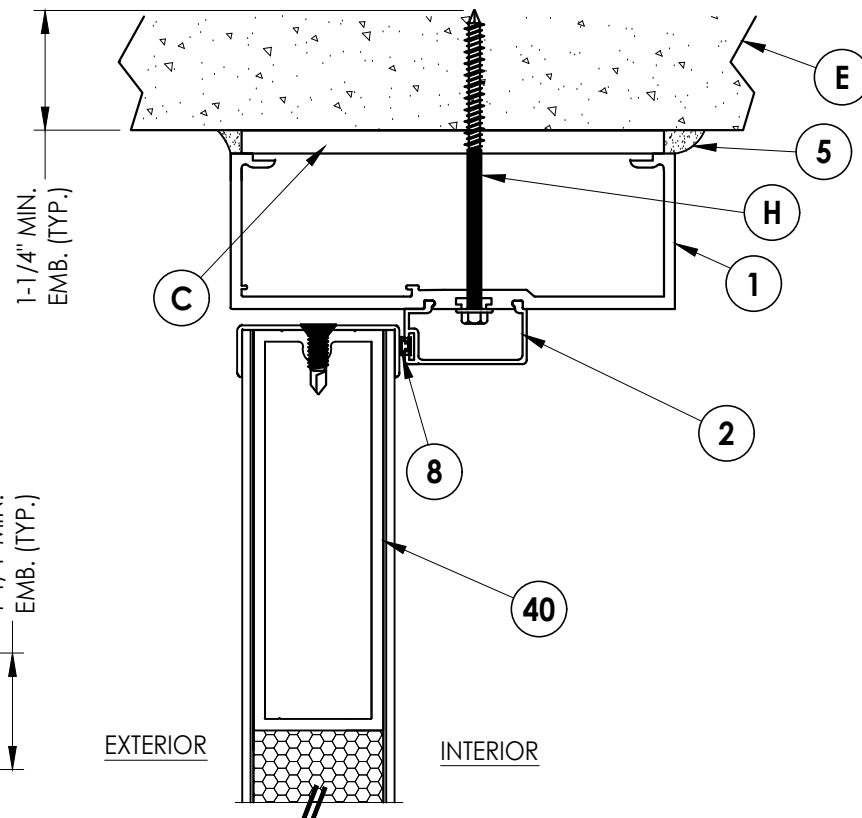
4
4 **VERTICAL CROSS SECTION**



2
4 **VERTICAL CROSS SECTION**
Shown w/1X sub-buck



5
4 **VERTICAL CROSS SECTION**



3
4 **VERTICAL CROSS SECTION**
Direct to Masonry

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FBPE Registry No. 9813

PRODUCT: CLINE DOORS

PART OR ASSEMBLY:
VERTICAL CROSS SECTIONS

NO.	DATE	REVISIONS				
		BY	CHK	DATE	DESCRIPTION	DATE
7	7/23/25	LFS			ADD MORTISE LOCK	
6	7/05/23	FBC			UPDATE TO 8TH ED. (2023)	
5	8/11/20	FBC			UPDATE TO 7TH ED. (2020)	
4	7/7/17	FBC			UPDATE TO 6TH ED. (2017)	

DATE: 6/8/11

SCALE: N.T.S.

DWG. BY: JK

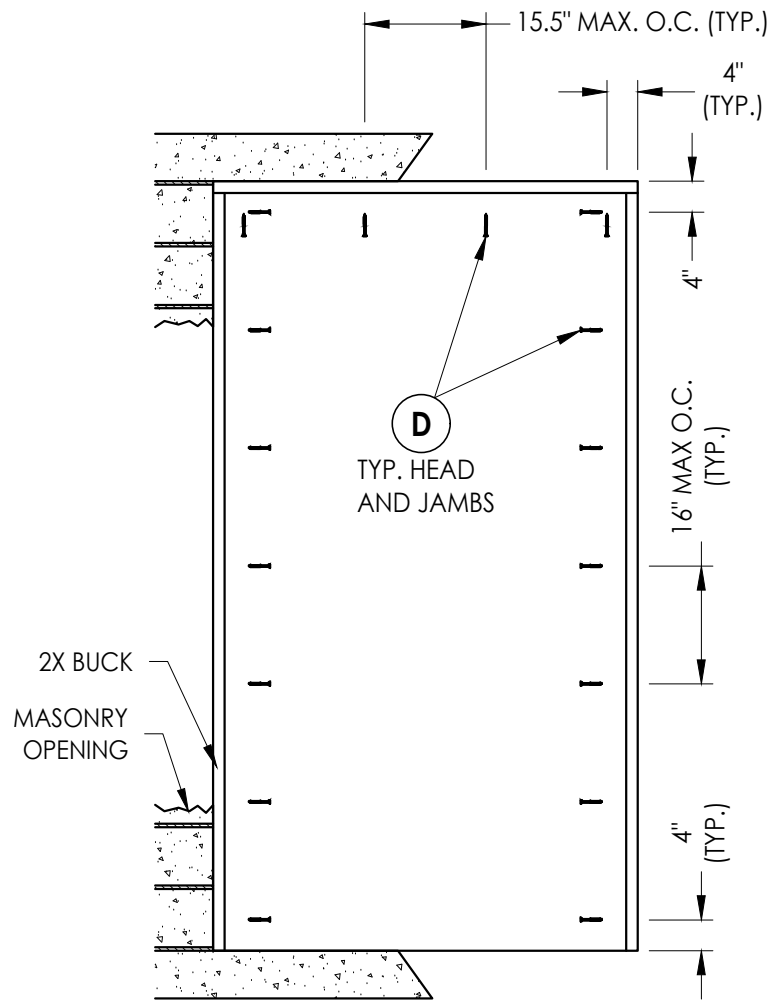
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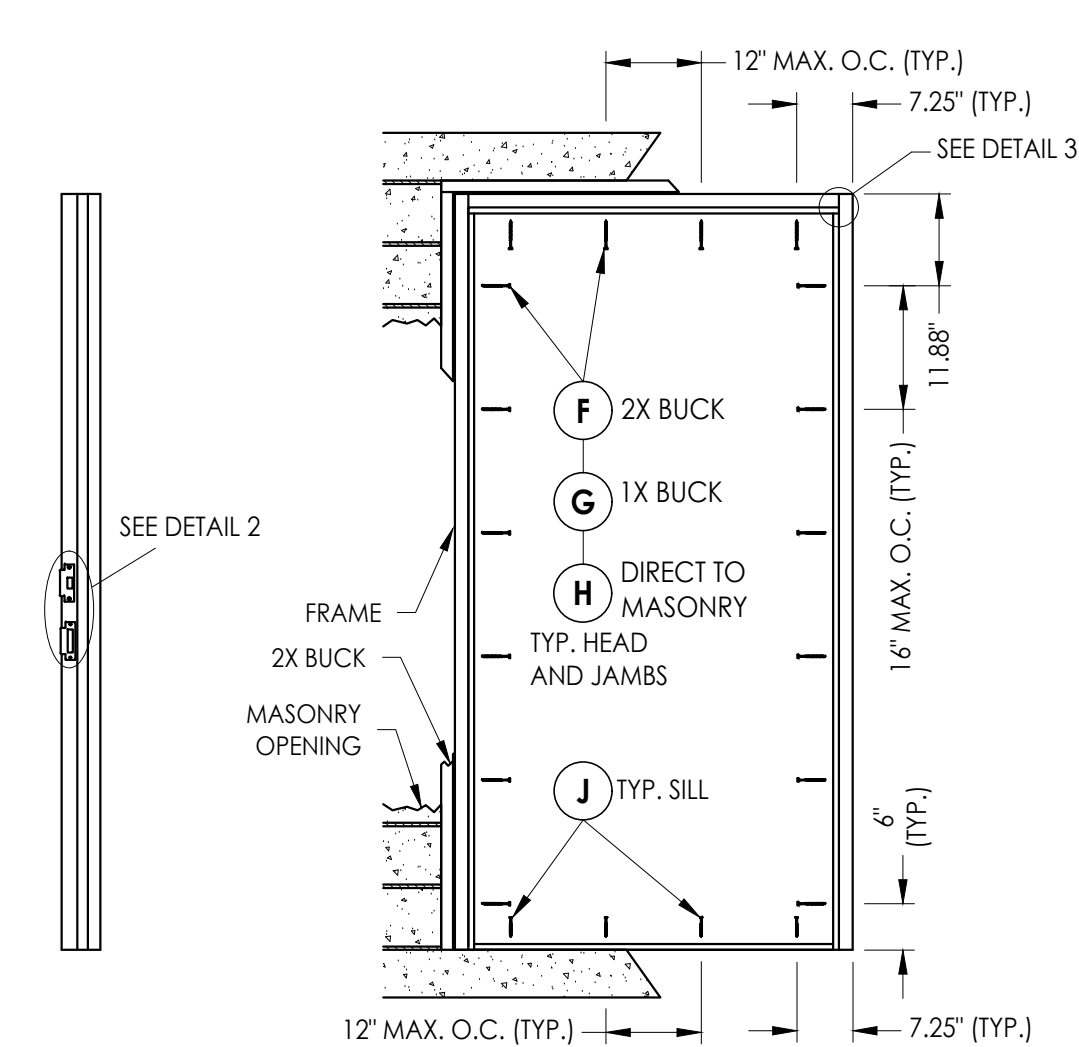
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SHEET 4 OF 7

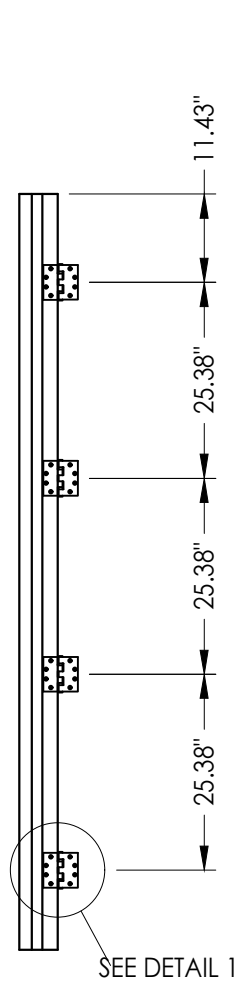
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BUCK ANCHORING



FRAME ANCHORING



HINGE JAMB

STRIKE JAMB

MAX. FRAME DIMENSION 51.5" X 98.0"

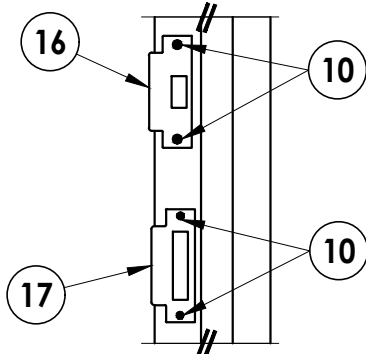
CONCRETE ANCHOR NOTES:

- 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:

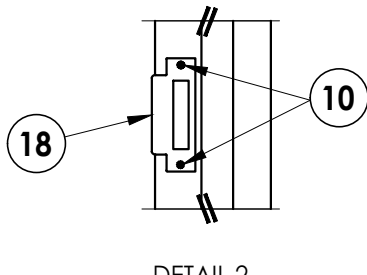
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW BUILDEX TAPCON®	1/4"	1-1/4"	2"	4"
DeWALT ULTRACON+®	1/4"	1-1/4"	1"	4"

WOOD SCREW INSTALLATION NOTES:

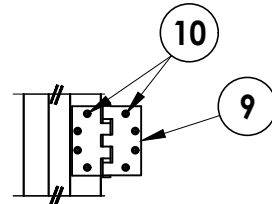
- Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.



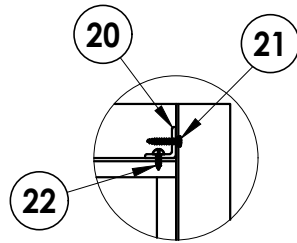
DETAIL 2
LOCK & DEADBOLT



DETAIL 2
MORTISE LOCK



DETAIL 1



DETAIL 3

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:
CLINE DOORS

PART OR ASSEMBLY:
BUCK AND FRAME ANCHORING
(4' X 8')

NO.	DATE	REVISIONS
7	7/23/25	ADD MORTISE LOCK
6	7/05/23	UPDATE TO 8TH ED. (2023) FBC LFS
5	8/11/20	UPDATE TO 7TH ED. (2020) FBC DAC
4	7/7/17	UPDATE TO 6TH ED. (2017) FBC JK

DATE: 6/8/11

SCALE: N.T.S.

DWG. BY: JK

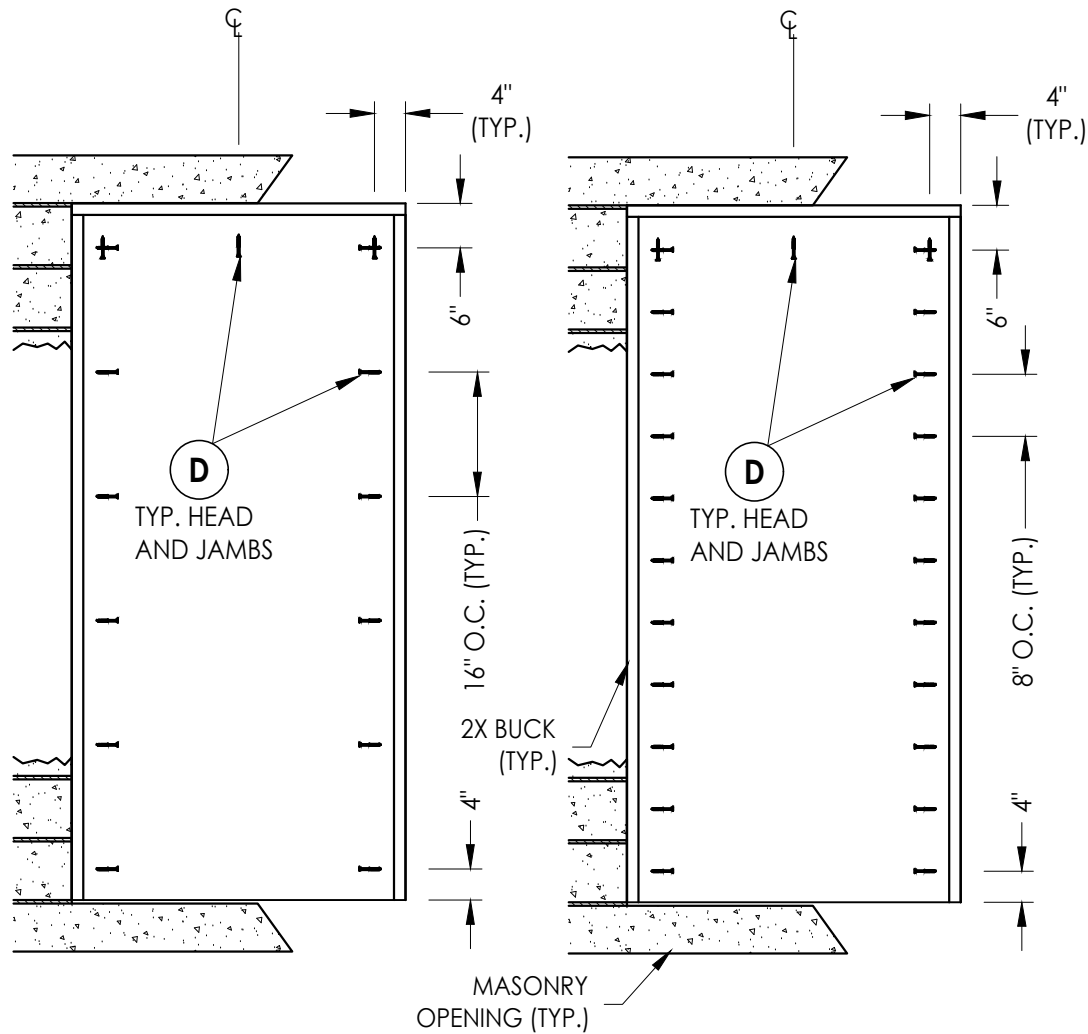
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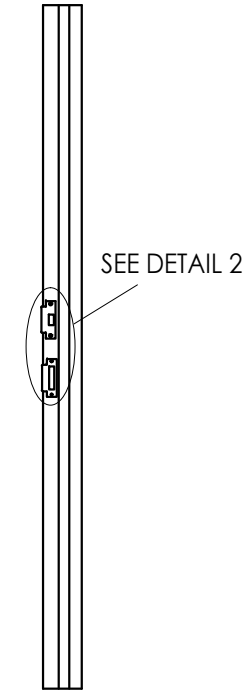
SHEET 5 OF 7

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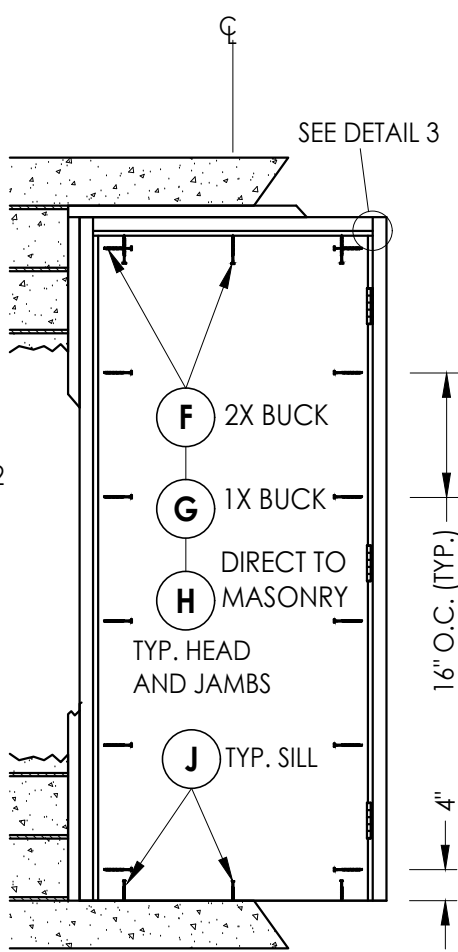


BUCK ANCHORING
Max. D.P. <= 70 PSF

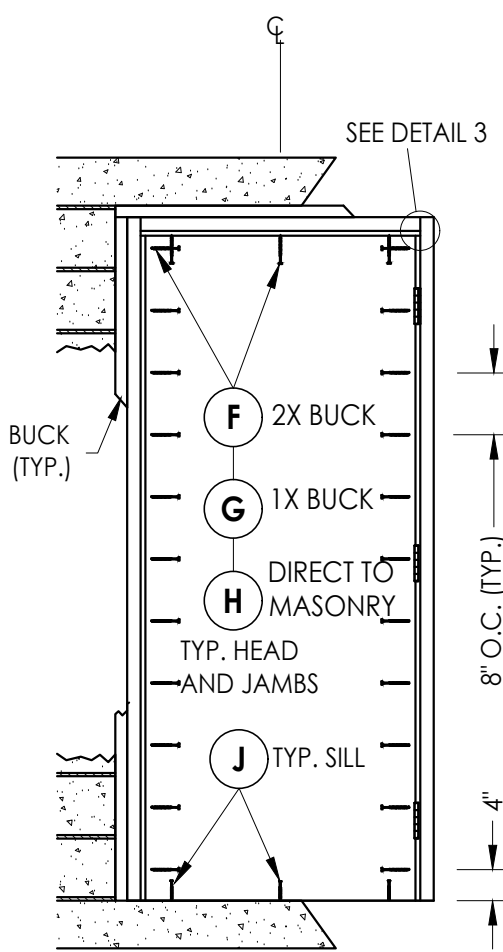
BUCK ANCHORING
Max. D.P. <= 90 PSF



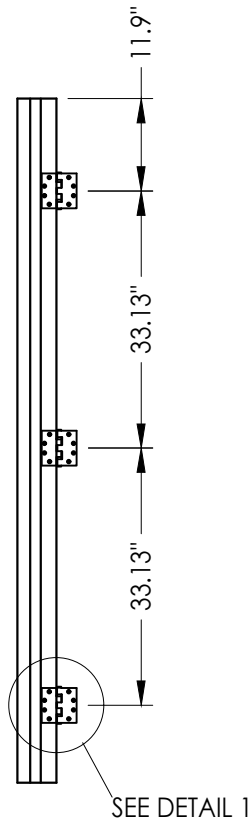
STRIKE JAMB



FRAME ANCHORING
Max. D.P. <= 70 PSF



FRAME ANCHORING
Max. D.P. <= 90 PSF



HINGE JAMB

MAX. FRAME DIMENSION 40" X 88"

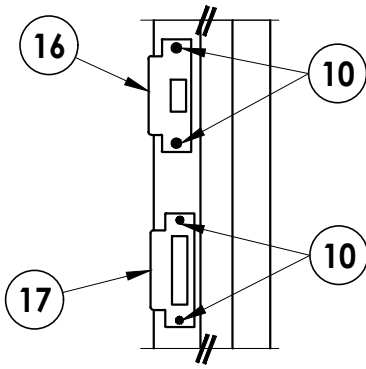
CONCRETE ANCHOR NOTES:

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- 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:

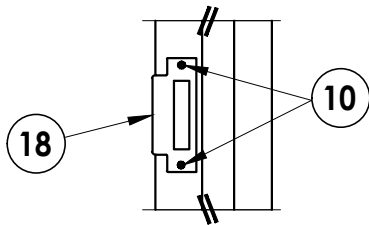
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW BUILDEX TAPCON®	1/4"	1-1/4"	2"	4"
DeWALT ULTRACON®	1/4"	1-1/4"	1"	4"

WOOD SCREW INSTALLATION NOTES:

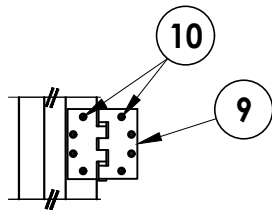
- Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.



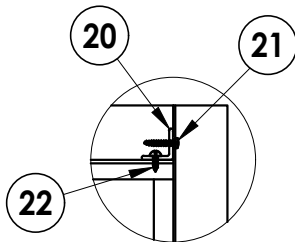
DETAIL 2
LOCK & DEADBOLT



DETAIL 2
MORTISE LOCK



DETAIL 1



DETAIL 3

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

PRODUCT: CLINE DOORS

PART OR ASSEMBLY:
BUCK AND FRAME ANCHORING
(3' X 7')

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

DATE: 6/8/11

SCALE: N.T.S.

DWG. BY: JK

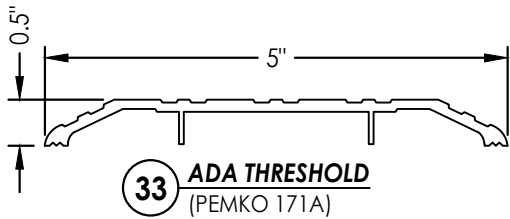
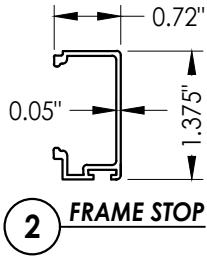
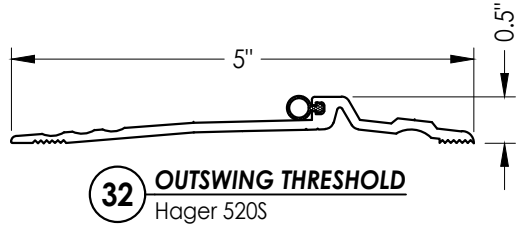
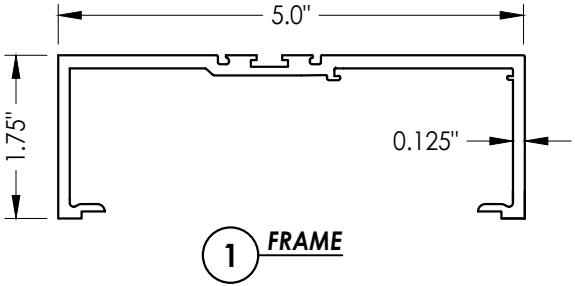
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DRAWING NO.: FL-6336.2

SHEET 6 OF 7

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BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (G >= 0.55)	WOOD
B	2X BUCK (G >= 0.55)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" DeWALT OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	1/4" X 3-1/2" HEX LAG SCREW (1-1/2" MIN. EMBEDMENT)	STEEL
G	1/4" X 4" HH DeWALT OR ITW CONCRETE SCREW	STEEL
H	1/4" x 3-1/4" HH DeWALT OR ITW CONCRETE SCREW	STEEL
J	1/4" x 1-3/4" HH DeWALT OR ITW CONCRETE SCREW	STEEL
1	FRAME	ALUM 6063 T5
2	FRAME STOP	ALUM 6063 T5
5	SILICONE SEALANT	SILICONE
7	WEATHERSTRIP	PVC
8	WOOL PILE WEATHERSTRIP	-
9	4-1/2" X 4-1/2" HINGE	STEEL
10	#12 X 11/16" PPH SELF-DRILLING SMS	STEEL
16	ANSI DEADBOLT STRIKE PLATE	STEEL
17	ANSI LATCH STRIKE PLATE	STEEL
18	MORTISE LOCK STRIKE PLATE	STEEL
20	CORNER REINFORCEMENT	STEEL
21	#10 X 1" PPH SMS	STEEL
22	#10 X 1/2" PPH SMS	STEEL
23	EXIT DEVICE STRIKE	-
24	DOOR SWEEP (PEMKO 345AV)	-
25	#6 X 5/8" PPH SMS	STEEL
32	OUTSWING THRESHOLD	ALUM
33	ADA THRESHOLD (PEMKO 171A)	ALUM
40	DOOR PANEL (SEE DOOR PANEL DETAILS)	-



Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT: CLINE DOORS		PART OR ASSEMBLY: BILL OF MATERIALS & COMPONENTS	
7	7/23/25	ADD MORTISE LOCK	LFS
6	7/05/23	UPDATE TO 8TH ED. (2023)	FBC LFS
5	8/11/20	UPDATE TO 7TH ED. (2020)	FBC DAC
4	7/7/17	UPDATE TO 6TH ED. (2017)	FBC JK
NO.	DATE		BY
REVISIONS			
DATE: 6/8/11			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-6336.2			
SHEET 7 OF 7			