

Vision Hollow Metal Limited

400 Zenway Blvd. Unit #1
Woodbridge, ON L4H OS7

LS1875 STEEL DOOR
IN SWING
"IMPACT"

GENERAL NOTES

1.

This product has been evaluated and is in compliance with the 9th Edition (2026) 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.

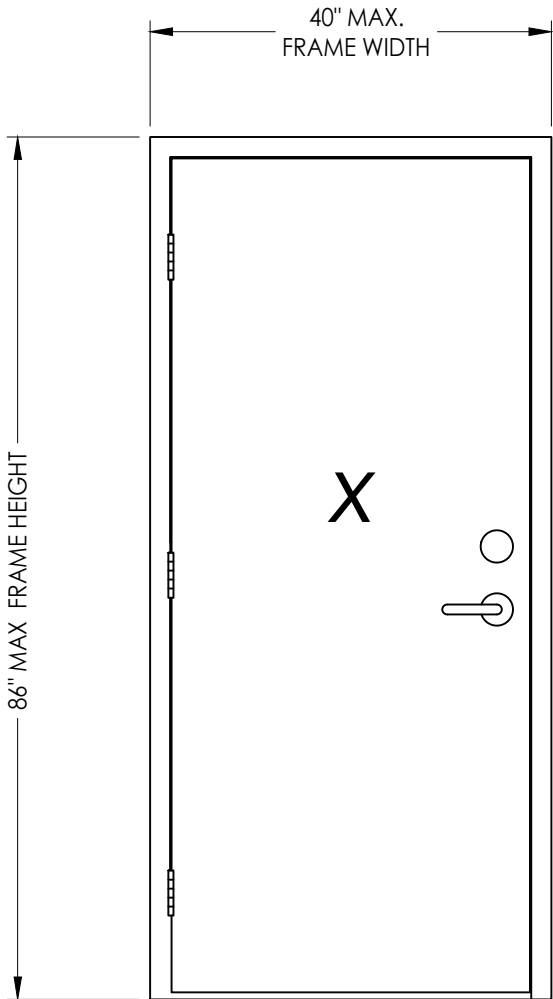
When used in areas outside of the "HVHZ" requiring wind borne debris protection, this product complies with FBC Sections 1609.1.2 & R301.2.1.2 and does not require an impact resistant covering. This product meets missile level "D" and includes Wind Zone 4 as defined in ASTM E 1996.
5.

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.

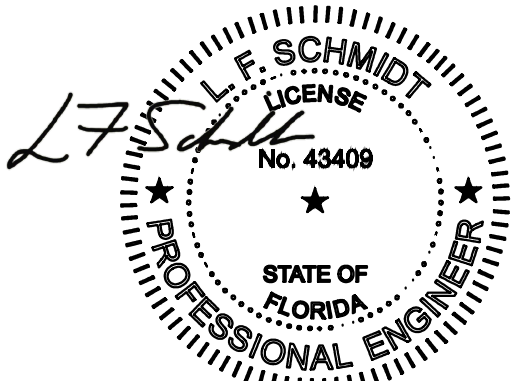
When used in the "HVHZ", steel must be protected as specified in FBC Section 2222.6

TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical elevations, design pressures, & general notes
2	Door panel details
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7	Frame anchoring
8	Bill of materials & components



CYLINDRICAL LOCK & DEADBOLT

MAX. OVERALL DIMENSION	DESIGN PRESSURE (PSF) "NON-HVHZ"		DESIGN PRESSURE (PSF) "HVHZ"	
	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
40.0" X 86.0"	+75.0	-75.0	+55.0	-75.0



Digitally signed by Lyndon F Schmidt
Date: 2026.08.17 15:20:37 -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

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

PRODUCT:
VISION HOLLOW METAL

4

7/02/26

UPDATE TO 9TH ED. (2026) FBC

LFS

3

7/05/23

UPDATE TO 8TH ED. (2023) FBC

LFS

2

9/08/20

UPDATE TO 7TH ED. (2020) FBC

LFS

1

11/5/19

ADJUST ANCHOR SPACING

LFS

NO.

DATE

BY

REVISIONS

Part or Assembly:
TYPICAL ELEVATIONS, DESIGN PRESSURES & GENERAL NOTES

R.W.

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

DATE: 7/08/18

SCALE: N.T.S.

DWG. BY: JK

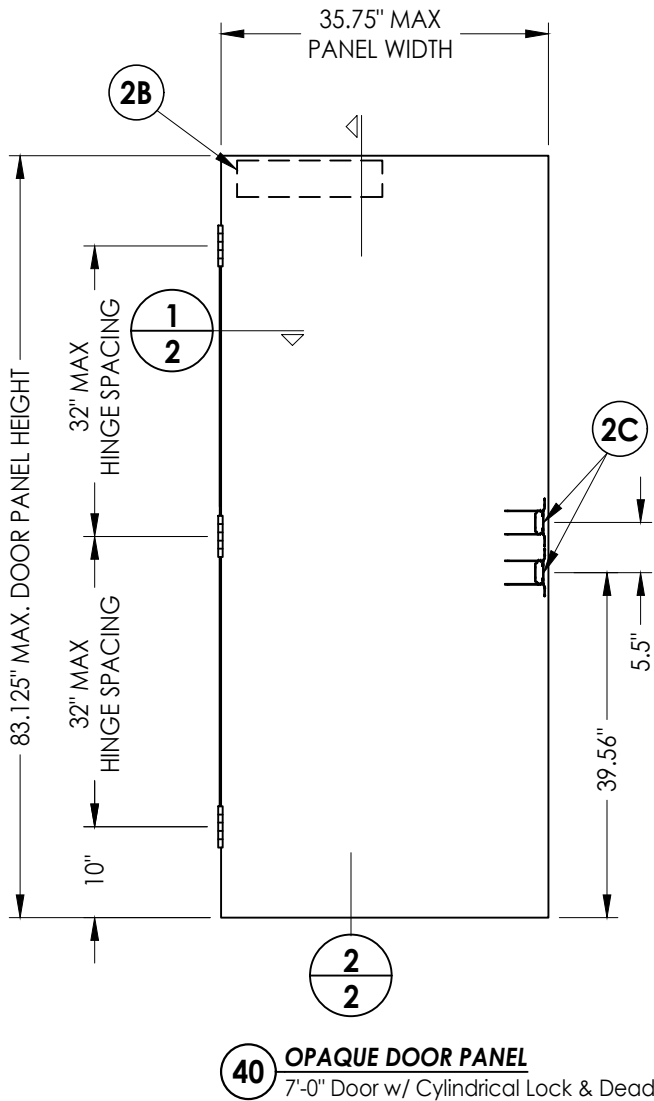
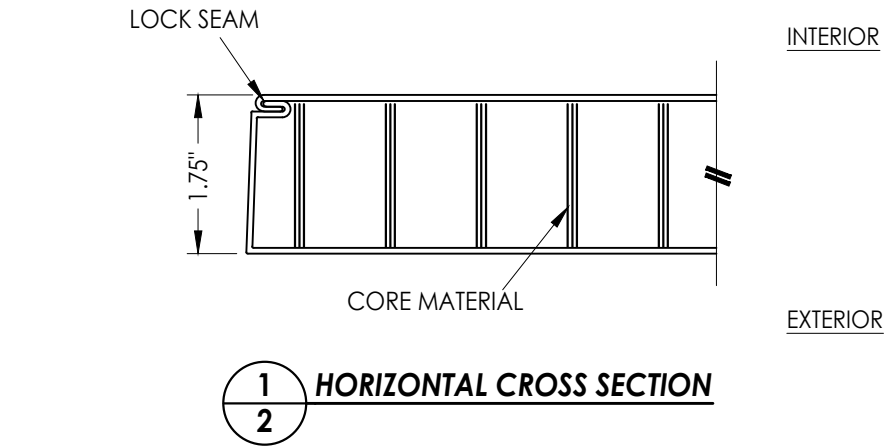
CHK. BY: LFS

DRAWING NO.: FL-19036.6

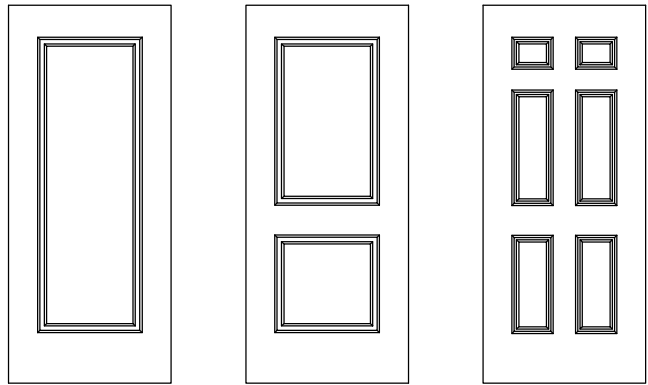
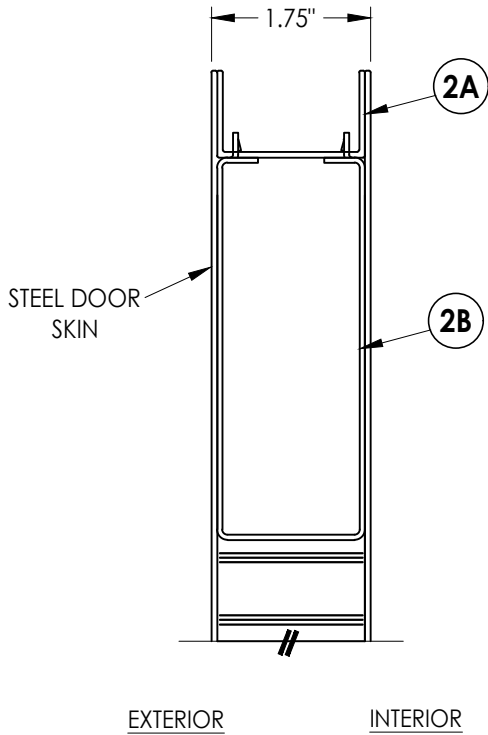
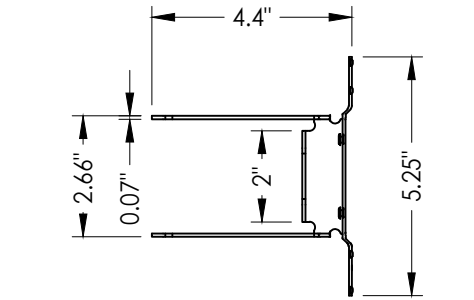
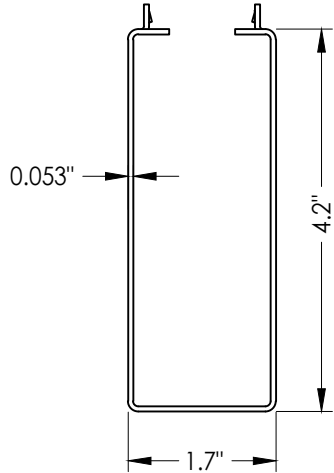
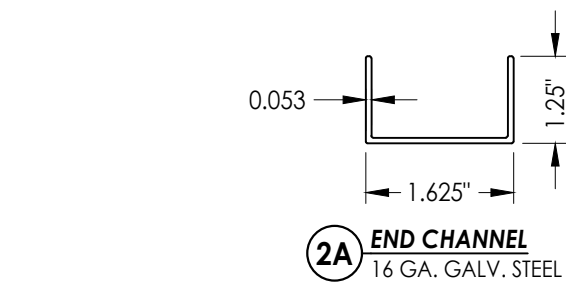
SHEET 1 OF 8

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STEEL DOOR SKIN: 18 GA. (MIN. 0.041" THK.) GALV. STEEL (Fy = 45,100 PSI MIN.)
CORE MATERIAL: HONEYCOMB CORE



OPTIONAL EMBOSSED PANELS

Documents Prepared By:
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FBPE Registry No. 9813

PRODUCT:
VISION HOLLOW METAL

PART OR ASSEMBLY:
DOOR
PANEL DETAILS

NO.	DATE	REVISIONS
4	7/02/26	UPDATE TO 9TH ED. (2026) FBC LFS
3	7/05/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	9/08/20	UPDATE TO 7TH ED. (2020) FBC LFS
1	11/5/19	ADJUST ANCHOR SPACING LFS

DATE: 7/08/18

SCALE: N.T.S.

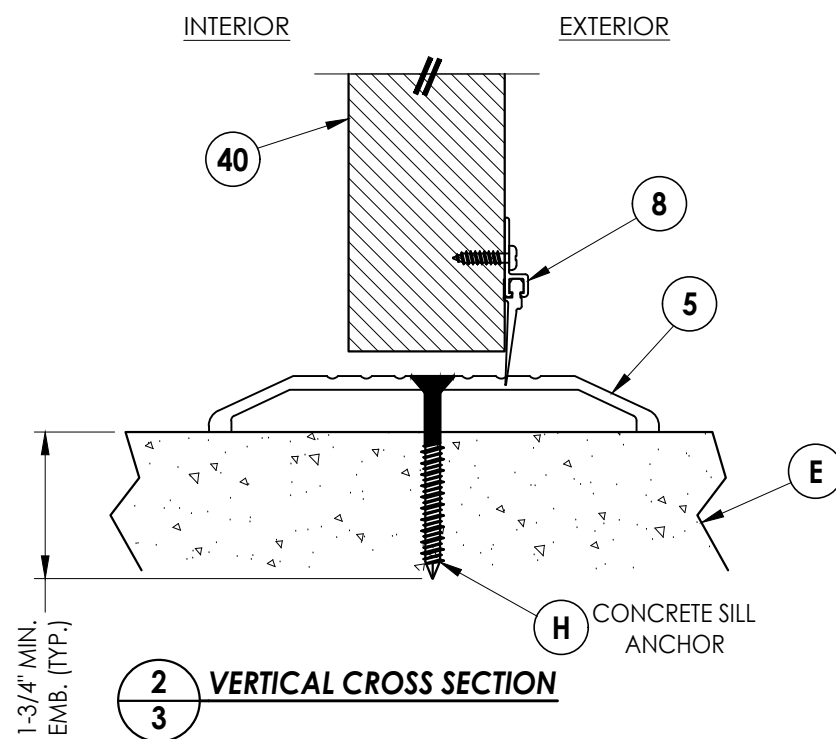
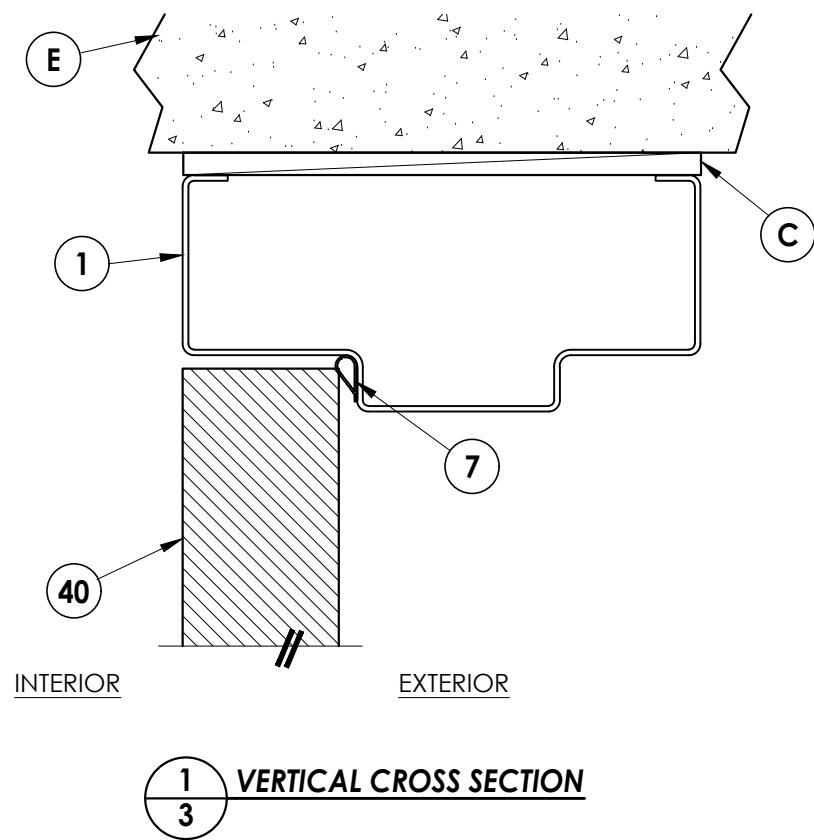
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CHK. BY: LFS

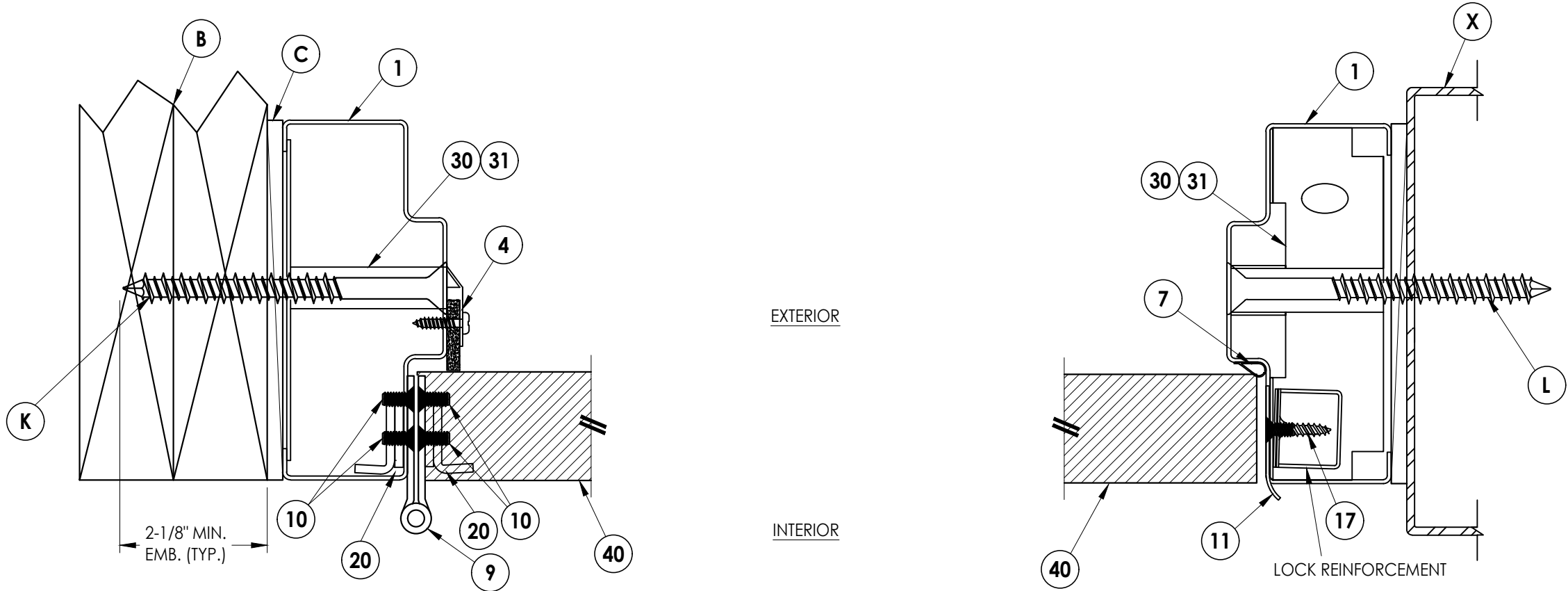
DRAWING NO.:
FL-19036.6

SHEET 2 OF 8

LOCK HARDWARE
<u>LEVER:</u> HAGER 2500 SERIES (GRADE 2) <u>DEADBOLT:</u> SCHLAGE B60N (GRADE 1)

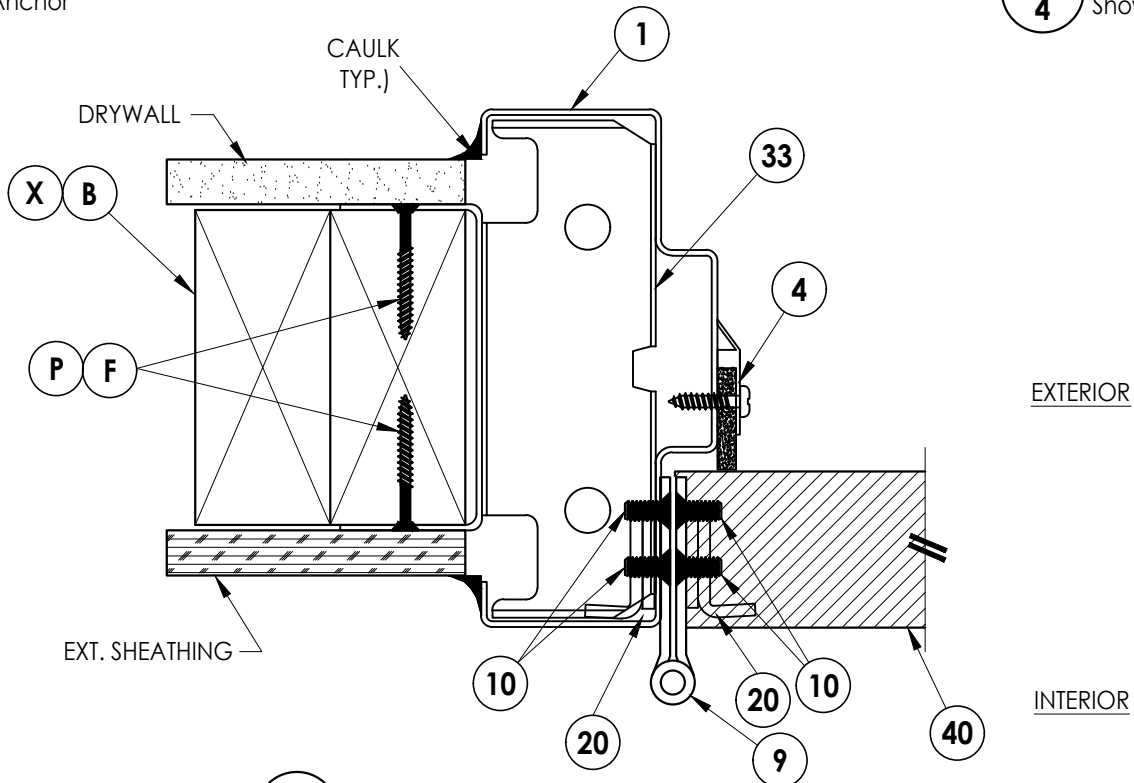
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1 HORIZONTAL CROSS SECTION
4 Shown w/ Wood Stud Anchor

2 HORIZONTAL CROSS SECTION
4 Shown w/ Steel Stud Anchor



3 HORIZONTAL CROSS SECTION
4 Shown w/ Wood/Steel Stud Strap Anchor

NOTE: SEE THE WOOD/STEEL STUD STRAP ANCHOR
DESIGN PRESSURE LIMITATIONS ON SHEET 6.

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FBPE Registry No. 9813

PRODUCT:
VISION HOLLOW METAL

PART OR ASSEMBLY:
HORIZONTAL
CROSS SECTIONS

NO.	DATE	REVISIONS
4	7/02/26	UPDATE TO 9TH ED. (2026) FBC LFS
3	7/05/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	9/08/20	UPDATE TO 7TH ED. (2020) FBC LFS
1	11/5/19	ADJUST ANCHOR SPACING LFS
NO.	DATE	BY

DATE: 7/08/18

SCALE: N.T.S.

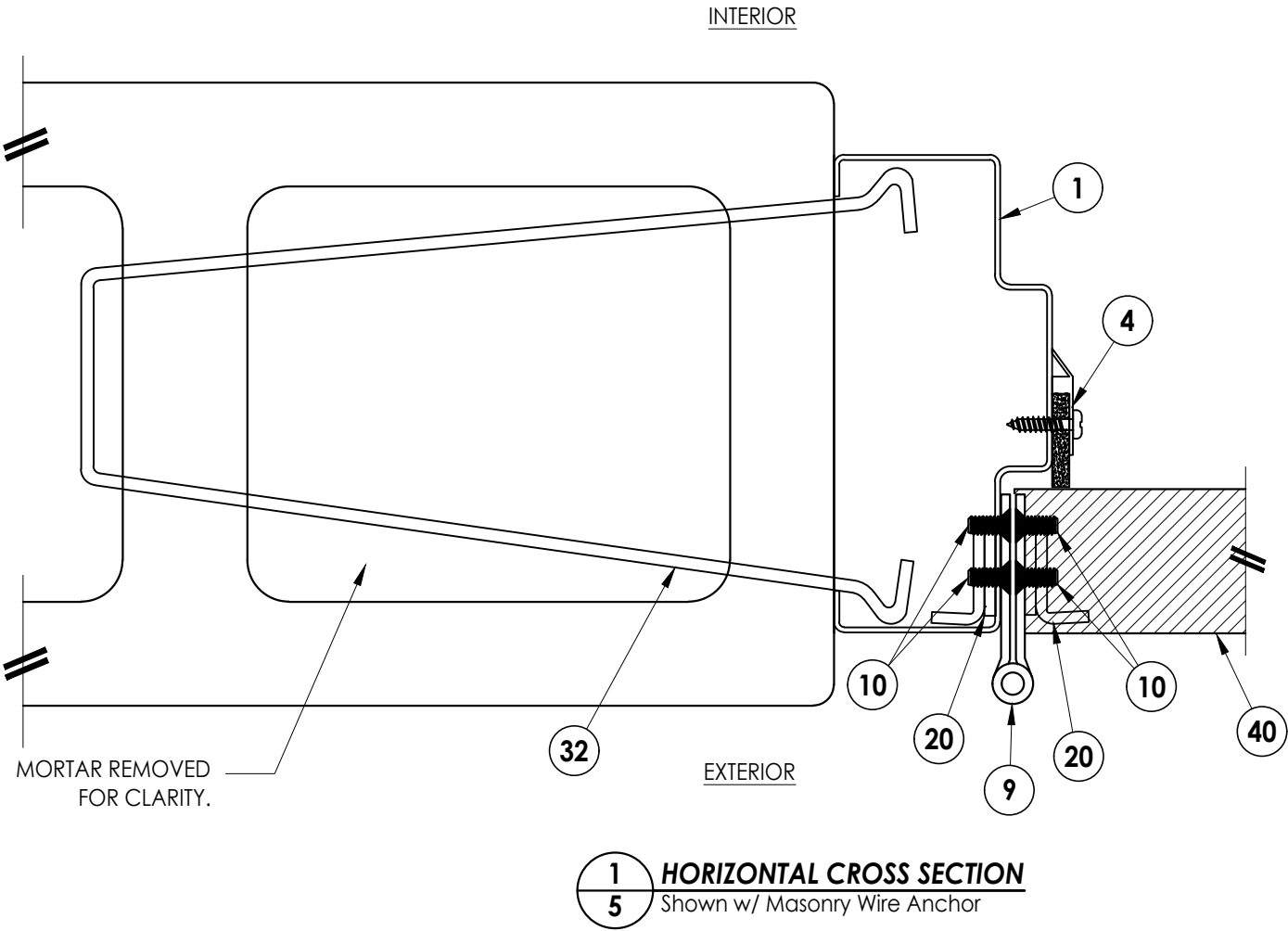
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CHK. BY: LFS

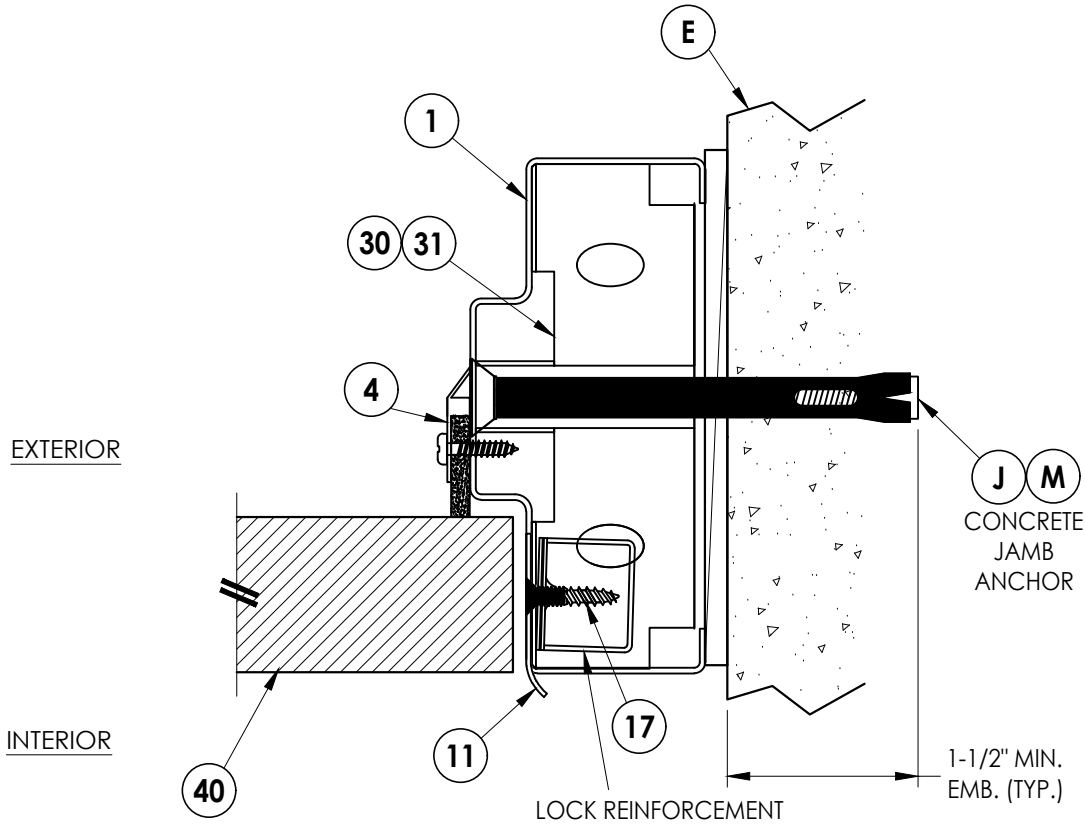
DRAWING NO.:

FL-19036.6

SHEET 4 OF 8



1
5 **HORIZONTAL CROSS SECTION**
Shown w/ Masonry Wire Anchor



2
5 **HORIZONTAL CROSS SECTION**
Shown w/ Concrete Jamb Anchor

DATE:	7/08/18
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-19036.6
SHEET	5 OF 8

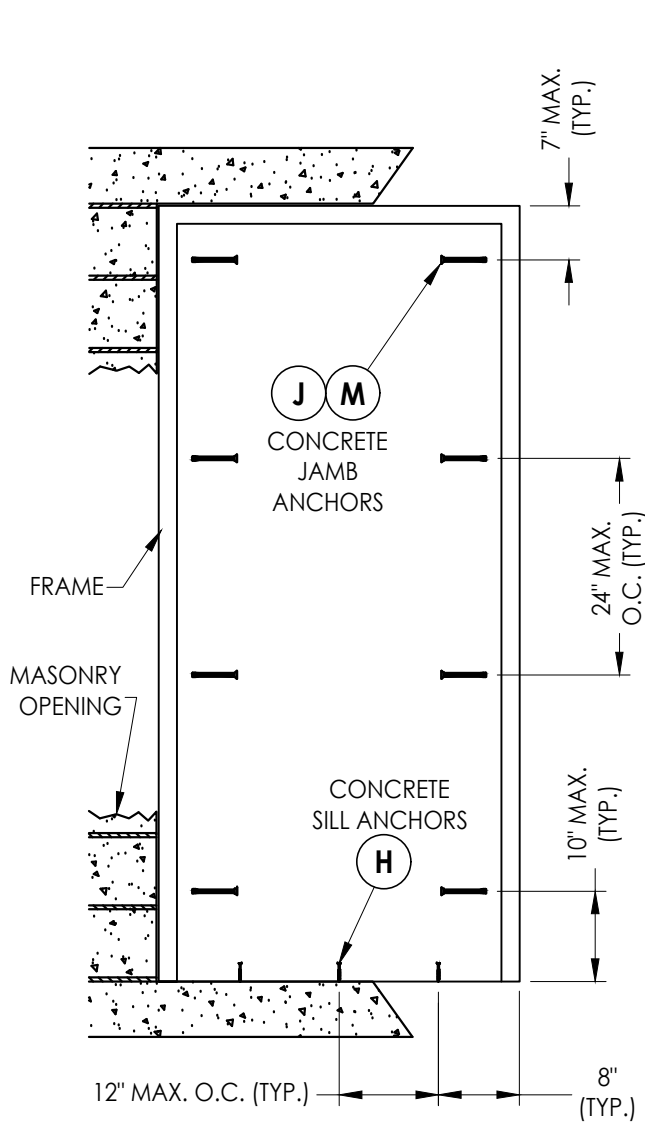
PRODUCT:	VISION HOLLOW METAL
PART OR ASSEMBLY:	HORIZONTAL CROSS SECTIONS

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

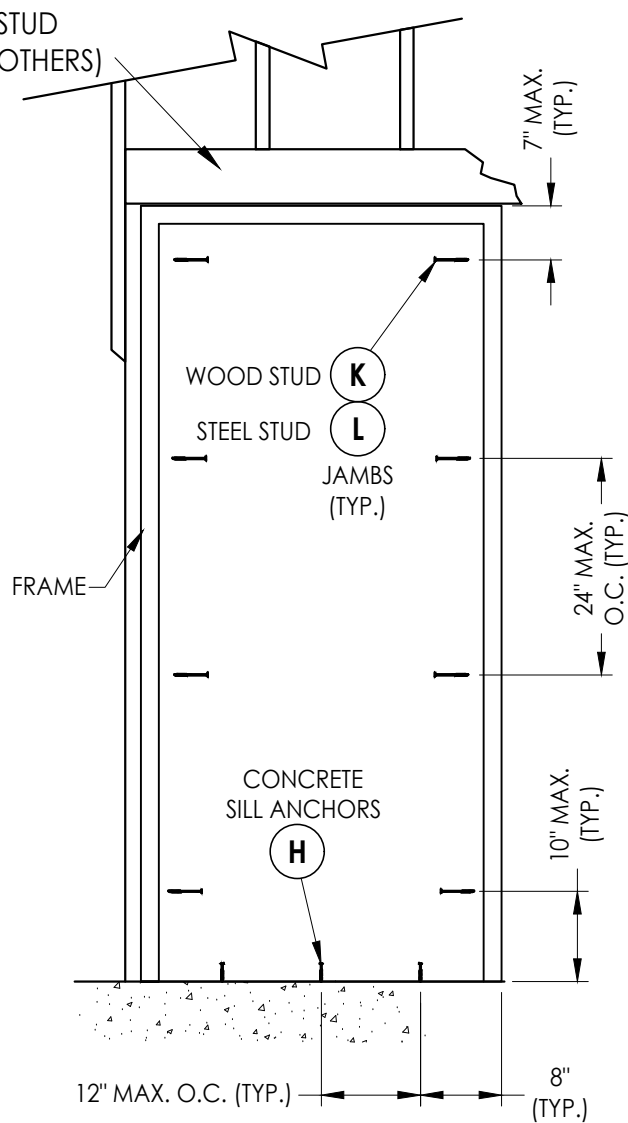
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

NO.	DATE	REVISIONS
4	7/02/26	UPDATE TO 9TH ED. (2026) FBC
3	7/05/23	UPDATE TO 8TH ED. (2023) FBC
2	9/08/20	UPDATE TO 7TH ED. (2020) FBC
1	11/5/19	ADJUST ANCHOR SPACING
		BY

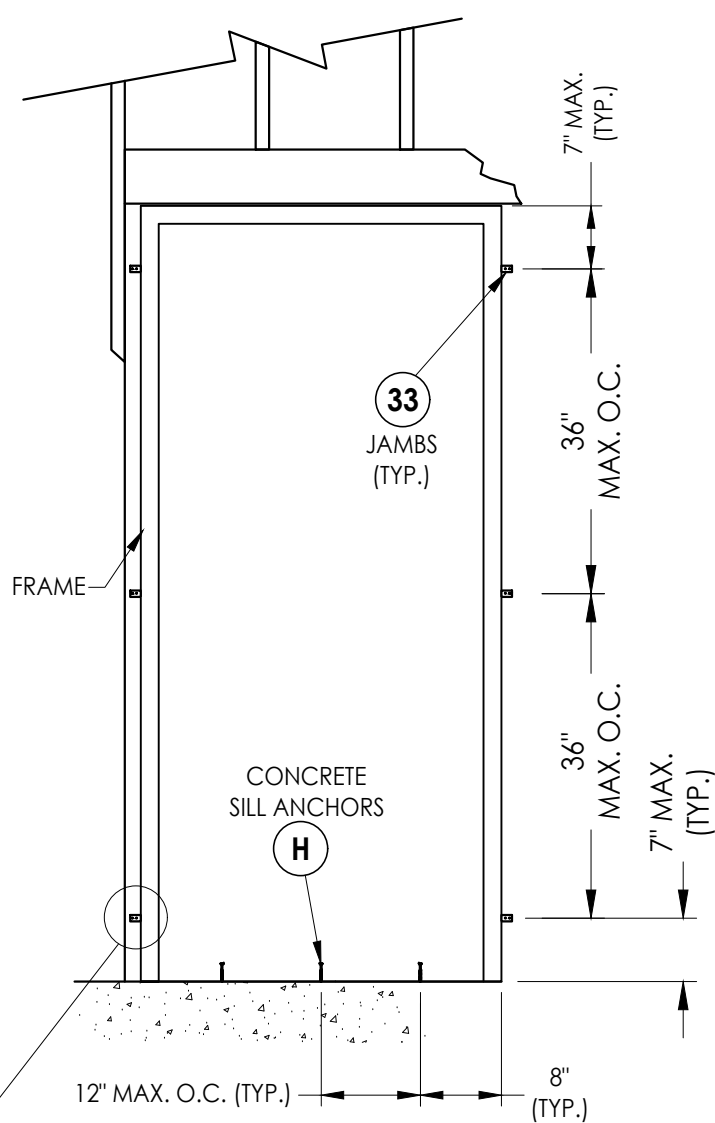
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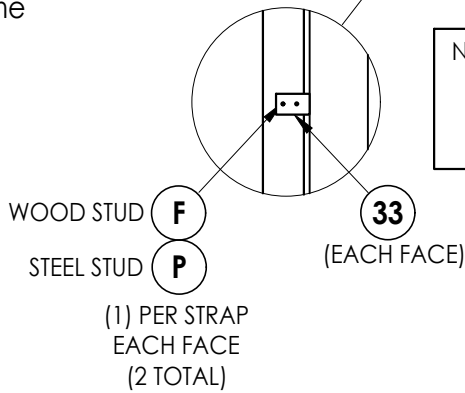
FRAME ANCHORING
Masonry Construction
Concrete Anchors



FRAME ANCHORING
Wood/Steel Stud
Through the Frame



FRAME ANCHORING
Wood/Steel Stud
Strap Anchors



NOTE: WOOD/STEEL STUD STRAP ANCHOR INSTALLATION IS LIMITED TO THE FOLLOWING MAX. DESIGN PRESSURES:
"NON-HVHZ" = +65/-75 PSF
"HVHZ" = +50/-75 PSF

CORROSION RESISTANCE - SALTWATER ENVIRONMENTS
Fasteners & connectors in areas within 3000 ft (914 m) of a saltwater coastline shall comply with FBC Sections 1711.1 or R332.1.

CONCRETE ANCHOR NOTES:

- Concrete screw locations at the corners may be adjusted to maintain a minimum 1" edge distance to mortar joints. If concrete screw locations noted as "MAX. O.C." must be adjusted to maintain the minimum edge distance to mortar joints, additional concrete screws may be required to ensure the maximum on center dimension is not exceeded.
- Concrete anchor table:

ANCHOR TYPE	ANCHOR LOCATION	ANCHOR SIZE	MANUFACTURER	MIN. EDGE DISTANCE	MIN. EMBEDMENT
CONCRETE ANCHOR SCREW	JAMBS	3/8"	LDT TAPCON® (ITW BUILDEX)	3"	1-1/2"
	SILL	1/4"	TAPCON® (ITW BUILDEX) ULTRACON+® (DeWALT) TAPPER+® (POWERS)	2-1/2"	1-3/4"
CONCRETE SLEEVE ANCHOR	JAMBS	3/8"	DYNABOLT SLEEVE ANCHOR® (ITW REDHEAD)	2-1/4"	1-1/2"

Documents Prepared By:
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VISION HOLLOW METAL

PART OR ASSEMBLY:
FRAME ANCHORING

DATE: 7/08/18

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-19036.6

SHEET 6 OF 8

REVISIONS

NO.	DATE	BY
4	7/02/26	UPDATE TO 9TH ED. (2026) FBC
3	7/05/23	UPDATE TO 8TH ED. (2023) FBC
2	9/08/20	UPDATE TO 7TH ED. (2020) FBC
1	11/5/19	ADJUST ANCHOR SPACING

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Phone No.: 813.659.9197

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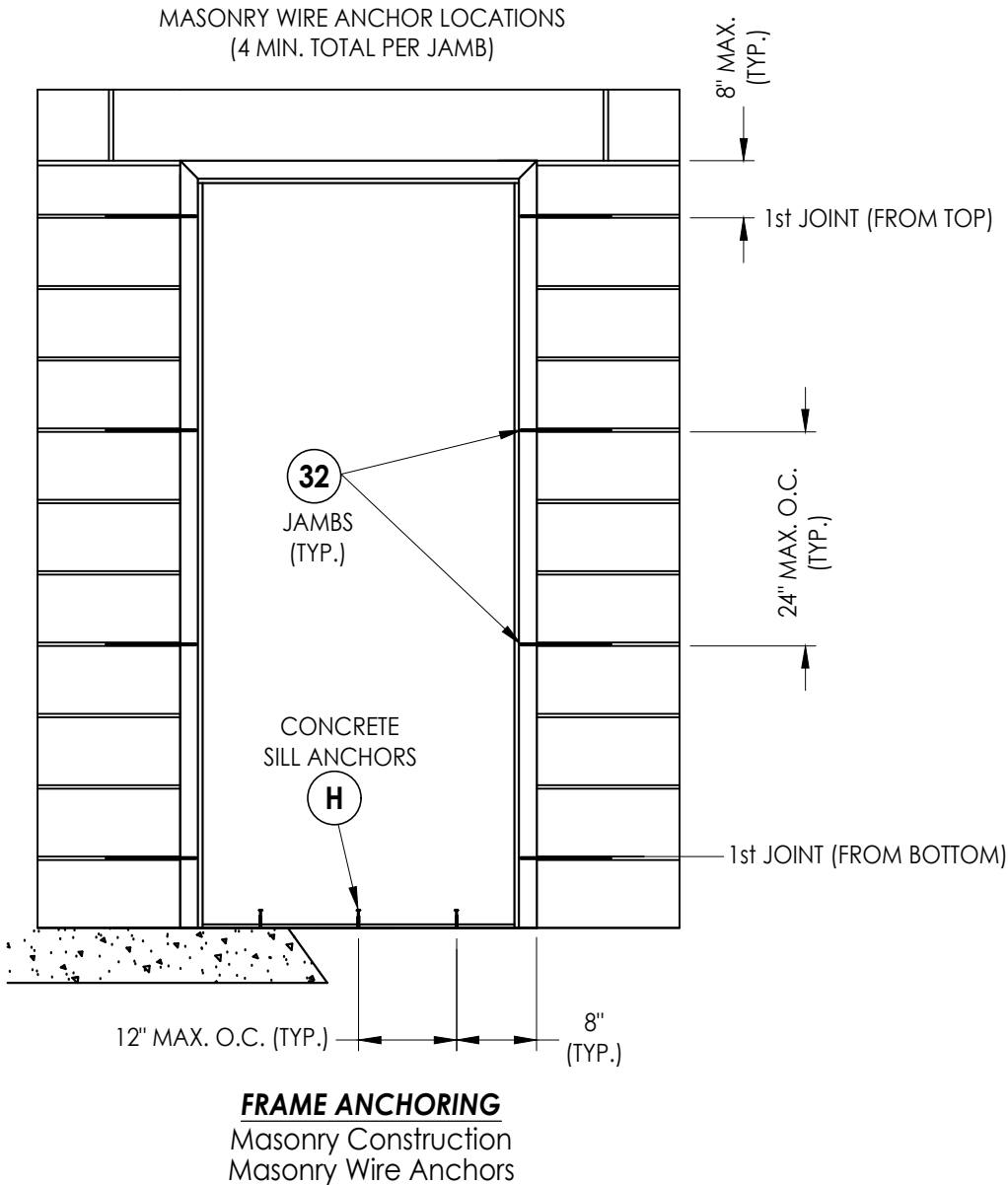
FL-19036.6

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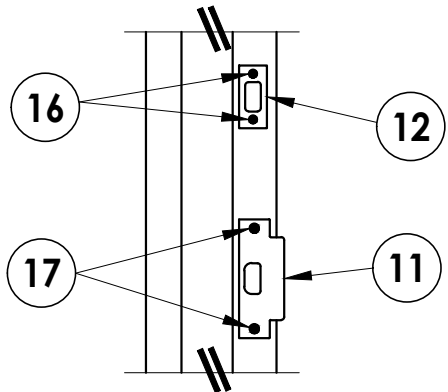
CONCRETE ANCHOR NOTES:

1. Concrete screw locations at the corners may be adjusted to maintain a minimum 1" edge distance to mortar joints. If concrete screw locations noted as "MAX. O.C." must be adjusted to maintain the minimum edge distance to mortar joints, additional concrete screws may be required to ensure the maximum on center dimension is not exceeded.
2. Concrete anchor table:

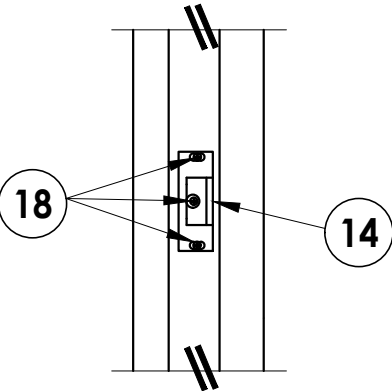
ANCHOR TYPE	ANCHOR LOCATION	ANCHOR SIZE	MANUFACTURER	MIN. EDGE DISTANCE	MIN. EMBEDMENT
CONCRETE ANCHOR SCREW	SILL	1/4"	TAPCON® (ITW BUILDEX) ULTRA-CON+® (DeWALT) TAPPER+® (POWERS)	2-1/2"	1-3/4"



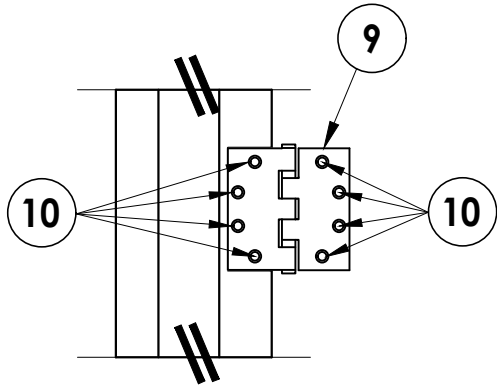
CORROSION RESISTANCE - SALTWATER ENVIRONMENTS
Fasteners & connectors in areas within 3000 ft (914 m) of a saltwater coastline shall comply with FBC Sections 1711.1 or R332.1.



STRIKE DETAIL
Latch & Deadbolt



STRIKE DETAIL
Rim Exit Device



HINGE DETAIL

Documents Prepared By:
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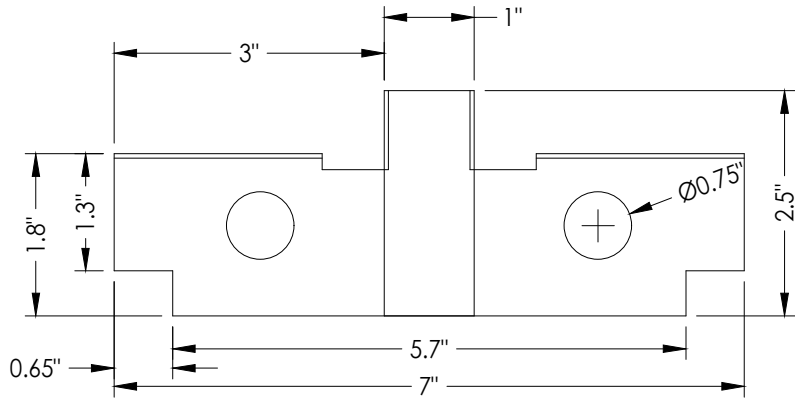
PRODUCT:	VISION HOLLOW METAL	
	PART OR ASSEMBLY:	FRAME ANCHORING

						REVISIONS	
						NO.	DATE
4	7/02/26	UPDATE TO 9TH ED. (2026)	FBC	LFS			
3	7/05/23	UPDATE TO 8TH ED. (2023)	FBC	LFS			
2	9/08/20	UPDATE TO 7TH ED. (2020)	FBC	LFS			
1	11/5/19	ADJUST ANCHOR SPACING		LFS			

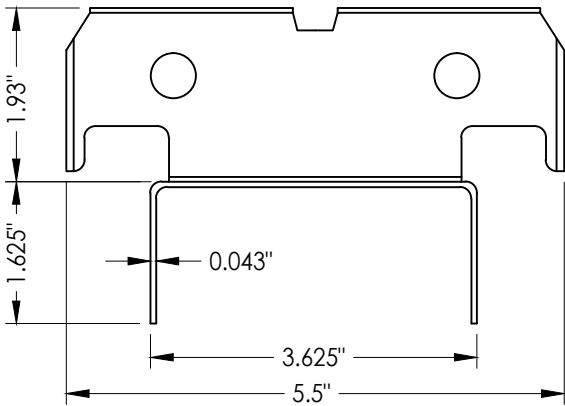
DATE:	7/08/18
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-19036.6
SHEET	7 OF 8

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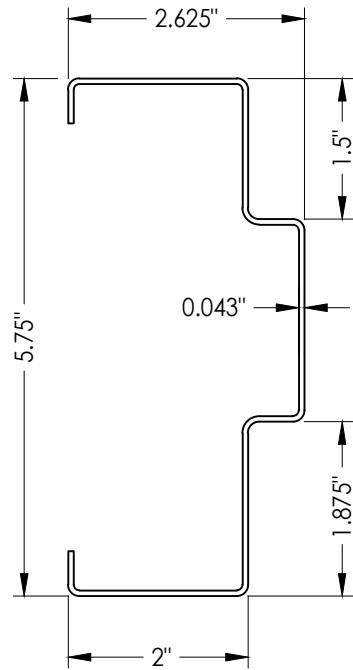
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
B	2X STUD FRAMING (G>= 0.55)	WOOD
C	1/4" MAX. SHIM SPACE	-
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK (GROUT FILLED) CONFORMING TO ASTM C90	CONCRETE
F	#8 X 1-1/2" PFH WOOD SCREW (1-3/8" MIN. EMBEDMENT)	STEEL
H	1/4" X 1-3/4" PFH CONCRETE SCREW (SEE CONCRETE ANCHOR TABLE)	STEEL
J	3/8" X 5" PFH DYNABOLT SLEEVE ANCHOR (SEE CONCRETE ANCHOR TABLE)	STEEL
K	3/8" X 5" FH LAG SCREW (2-1/8" MIN. EMBEDMENT)	STEEL
L	3/8" Ø SMS (MUST PENETRATE MIN. 3 THREADS THROUGH STEEL STUD)	STEEL
M	3/8" X 5" LDT TAPCON CONCRETE SCREW (SEE CONCRETE ANCHOR TABLE)	STEEL
P	#10 X 1-1/2" FH SELF-DRILLING SMS (MUST PENETRATE MIN. 3 THREADS THROUGH STEEL STUD)	STEEL
X	STEEL STUD (0.125" MIN. THK, Fu = 50 ksi, Fy = 33 ksi)	STEEL
1	HOLLOW METAL FRAME	STEEL
4	FRAME WEATHERSTRIP (HAGER 875S)	-
5	ADA THRESHOLD	ALUM
7	WEATHERSTRIP (HAGER 736 PRESS-ON)	-
8	DOOR BOTTOM WEATHERSTRIP	-
9	HINGE 4.5" X 4.5"	STEEL
10	#12-24 x 1/2" FH MACHINE SCREW	STEEL
11	LATCH STRIKE PLATE	STEEL
12	DEADBOLT STRIKE PLATE	STEEL
16	#8 x 3/4" FH SCREWS	STEEL
17	#12 x 1" FH SCREWS	STEEL
18	#12 x 1-1/8" PH SMS	STEEL
20	HINGE REINFORCEMENT (10 GA.)	STEEL
30	EMA PIPE ANCHOR (18 GA)	STEEL
31	EMA BUTTERFLY ANCHOR (18 GA)	STEEL
32	MASONRY WIRE ANCHOR	STEEL
33	STUD STRAP ANCHOR	STEEL
40	STEEL DOOR PANEL (7'-0" DOOR)	STEEL



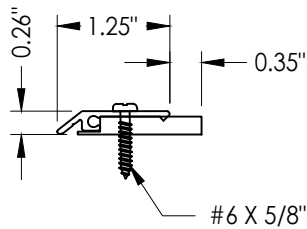
31 EMA BUTTERFLY FRAME ANCHOR



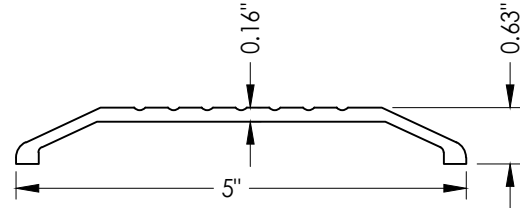
33 STUD STRAP ANCHOR



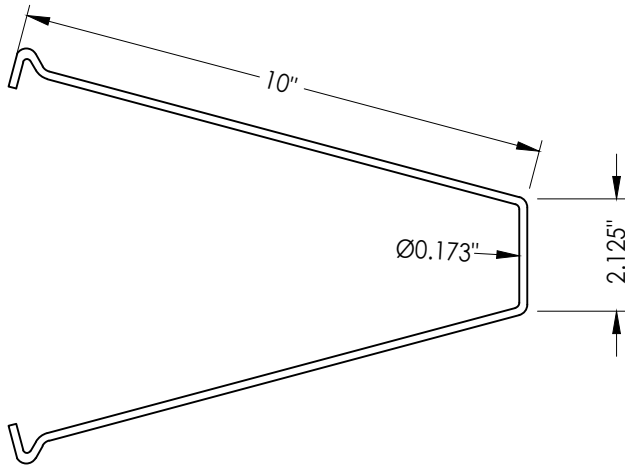
1 HOLLOW METAL FRAME



4 FRAME WEATHERSTRIP



5 ADA THRESHOLD



32 MASONRY WIRE ANCHOR
60 KSI MIN.

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:		VISION HOLLOW METAL	
PART OR ASSEMBLY:		BILL OF MATERIALS & COMPONENTS	
		LFS	FBC
4	7/02/26	UPDATE TO 9TH ED. (2026)	FBC
3	7/05/23	UPDATE TO 8TH ED. (2023)	FBC
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1	11/5/19	ADJUST ANCHOR SPACING	
NO.	DATE		BY
REVISIONS			
DATE: 7/08/18			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-19036.6			
SHEET 8 OF 8			