

IMPERIAL USA

IMPERIAL DOORS & FRAMES

(HVHZ) (IMPACT)

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE (FBC) **INCLUDING** HVHZ. ALL PRODUCTS UNDER THE SCOPE OF THIS DOCUMENT HAVE BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - ASTM E283-19
 - ASTM E331-00(23)
 - ASTM E1886-19
 - ASTM E1996-23
 - TAS 201-94
 - TAS 202-94
 - TAS 203-94
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X AND METAL STUD FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
- FRAME AND DOOR SKIN MATERIAL: STEEL.
- ALL STRUCTURAL MATERIALS & DISSIMILAR METALS SHALL BE PROTECTED, TREATED, PAINTED, COATED, AND/OR ISOLATED AS REQUIRED IN THE APPLICABLE SECTIONS OF THE CURRENT FLORIDA BUILDING CODE AND REFERENCED DESIGN SPECIFICATIONS.

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FRAME SIZE	DESIGN PRESSURE	IMPACT MISSILE RATING
SEE SHEET 2		LARGE & SMALL MISSILE IMPACT



1535 ELIZABETH AVE, SUITE 201
CHARLOTTE, NC 28204
PH: (704) 596-2444 FX: (800) 376-6536

TITLE:
IMPERIAL DOORS AND FRAMES
(HVHZ) (IMPACT)

GENERAL NOTES & TABLE OF CONTENTS

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI CT., SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
2026 CODE CHANGE	HJ	7/26

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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2026.08.01 14:42:41 -0400'

HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
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1900 NE MIAMI CT. SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL48055

DATE: 02.24.2026

DWG. BY:
LS

CHK. BY:
HFN

SCALE: NTS

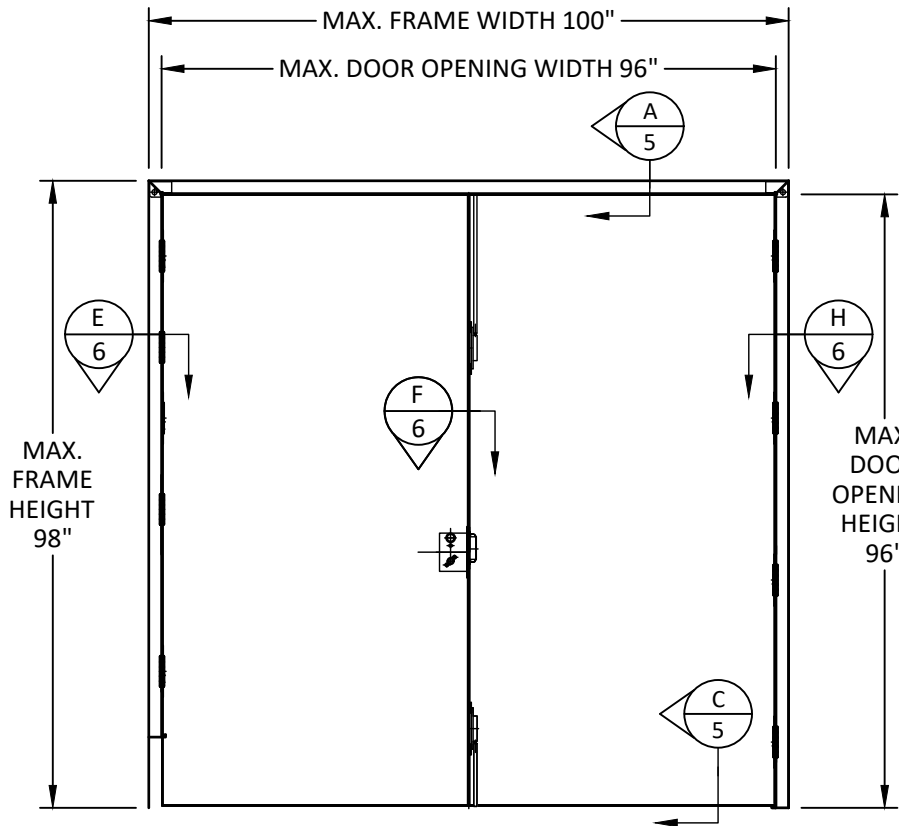
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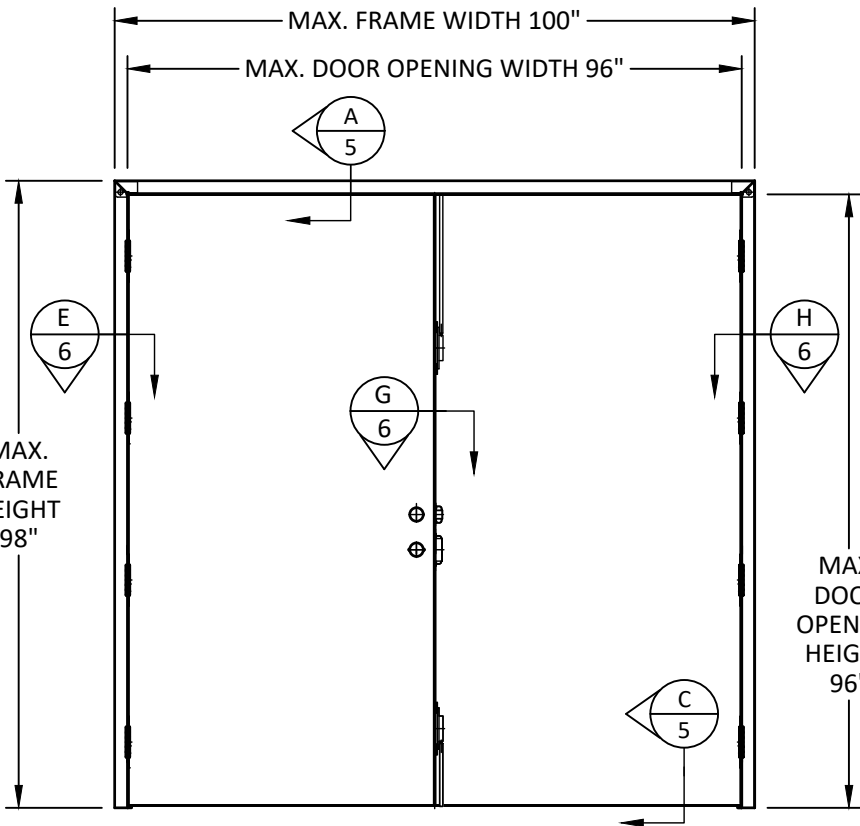
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OF 13

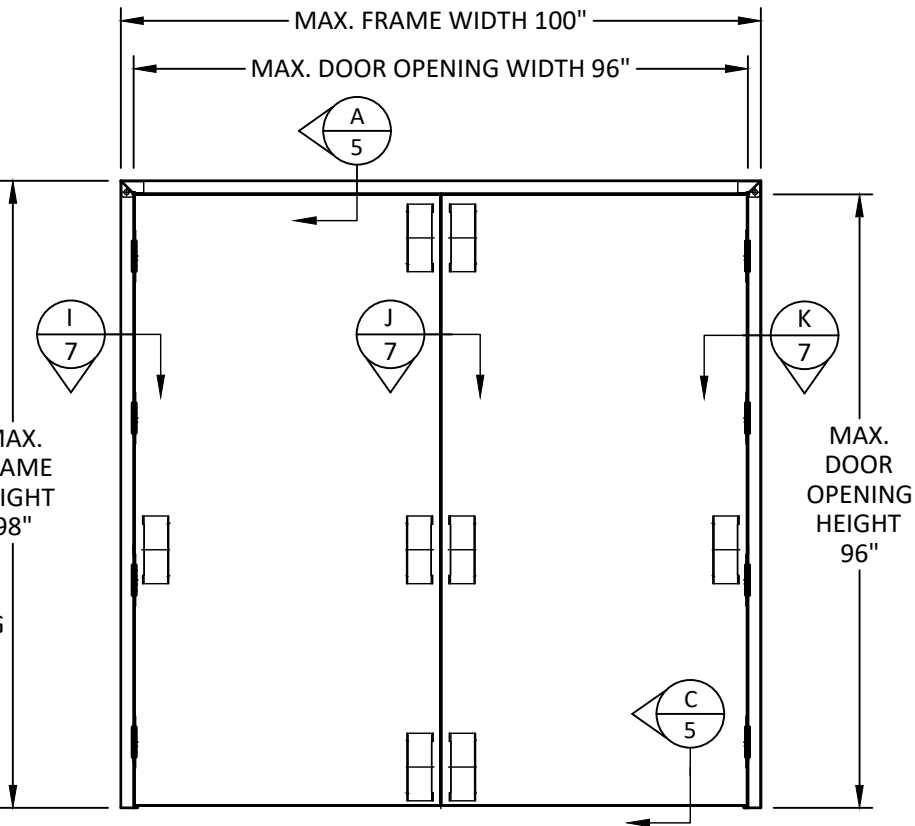
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ELEVATION #1
OUTSWING DOUBLE DOOR



ELEVATION #2
OUTSWING DOUBLE DOOR



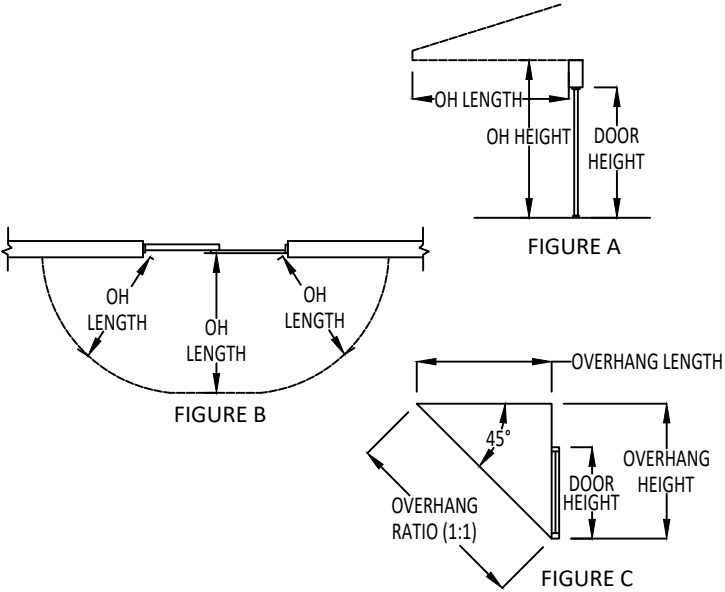
ELEVATION #3
OUTSWING DOUBLE DOOR

DOOR SCHEDULE						
ELEVATION NO.	CONFIGURATION	MAX. FRAME DIMENTIONS	MAX. LEAF DIMENSIONS	WATER INFILTRATION RESISTANCE*	HARDWARE	DESIGN PRESSURE
1	OUTSWING DOUBLE DOOR	100" X 98"	47-3/4" X 95-1/2"	YES	IMPERIAL MORTISE LOCK SET (DL-DXML) WITH IMPERIAL FLUSH BOLT 450	+/- 70 PSF
2				YES	IMPERIAL SERIES DL-LHV GRADE 1 CYLINDRICAL LOCKSET WITH IMPERIAL SERIES GH-ULSB197 FLUSH BOLT	
3				YES	IMPERIAL PANIC DEVICE SURFACE VERTICAL (ED-VR931)	
4	INSWING SINGLE DOOR	50" X 98"		YES	IMPERIAL MORTISE LOCK SET (DL-DXML)	+/- 80 PSF
5	OUTSWING SINGLE DOOR			YES*	IMPERIAL PANIC DEVICE SURFACE BAR (ED-901)	+/- 80 PSF (NO WATER) +70/-80 (WATER RATED)
6	INSWING SINGLE DOOR			YES	IMPERIAL SERIES DL-LHV GRADE 1 CYLINDRICAL LOCKSET WITH IMPERIAL DEAD BOLT DB700	+/- 80 PSF

*ELEVATION #5 IS RATED FOR WATER INFILTRATION FOR A DESIGN PRESSURE UP TO POSITIVE 70 PSF. WHEN THE REQUIRED DP IS HIGHER THAN +70 PSF, SEE NOTE AT RIGHT.

NOTE: PRODUCT MAX. POSITIVE DESIGN PRESSURE MAY BE TAKEN TO BE 70 PSF. WHEN THE REQUIRED DP IS HIGHER THAN +70 PSF, INSTALL UNIT AT A LOCATION PROTECTED BY AN OVERHANG SUCH THAT:

- OVERHANG (OH) RATIO = OH LENGTH ÷ OH HEIGHT IS ≥ 1.0 , PRODUCT REQUIRES LIMITED WATER (LW) TESTING.



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ELEVATIONS AND DOOR SCHEDULE

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HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC
1900 NE MIAMI CT. SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL48055

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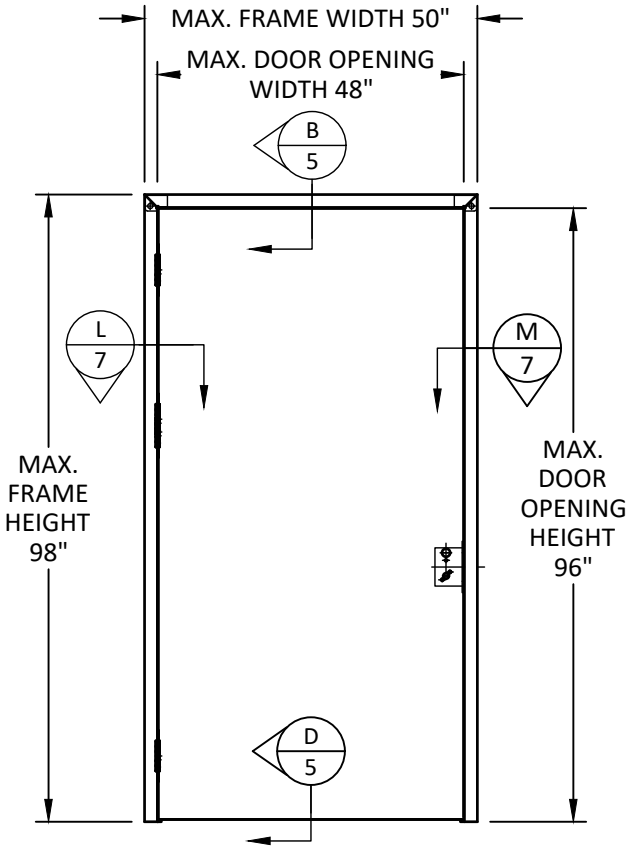
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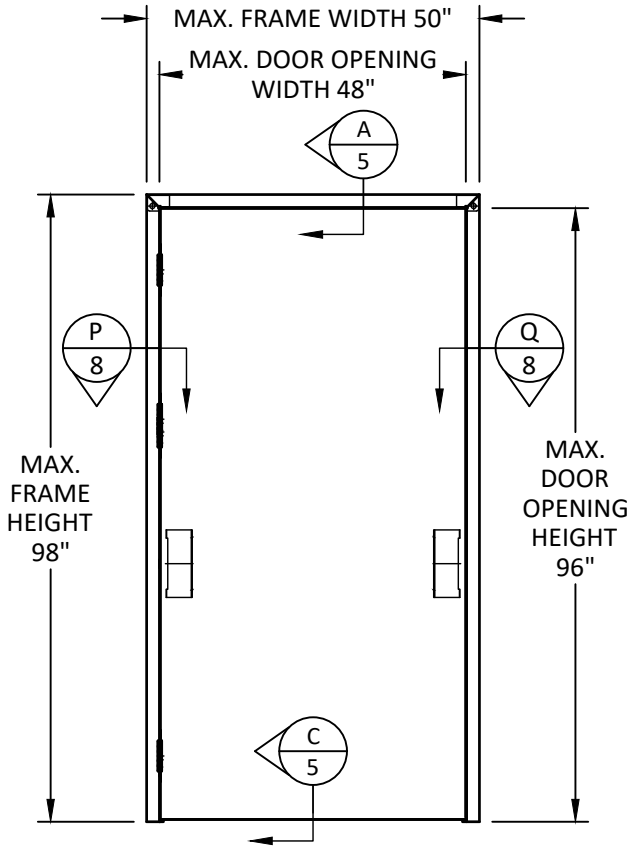
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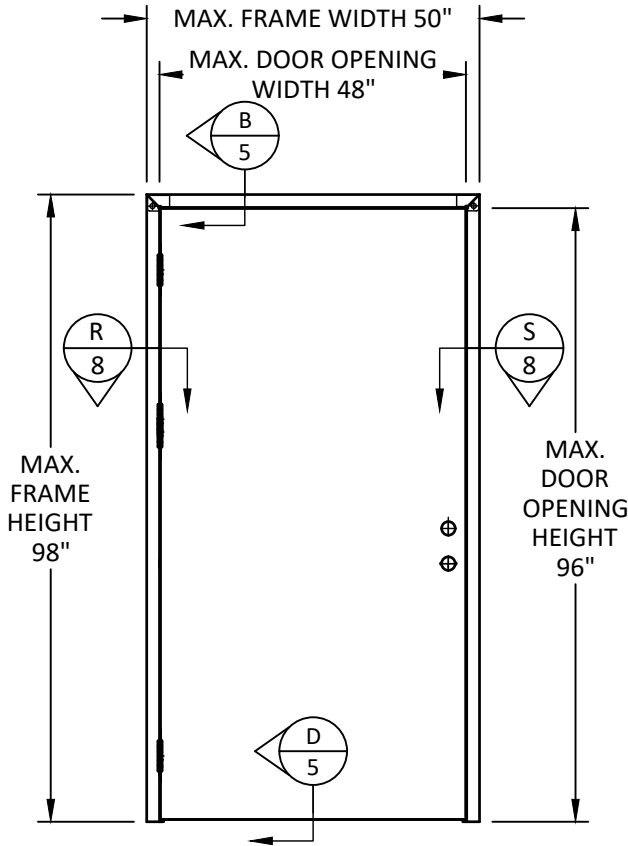
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ELEVATION #4
INSWING SINGLE DOOR

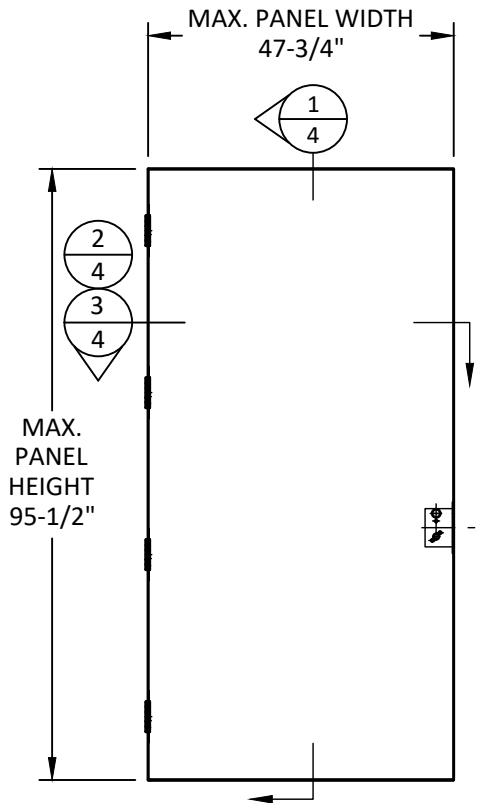


ELEVATION #5
OUTSWING SINGLE DOOR



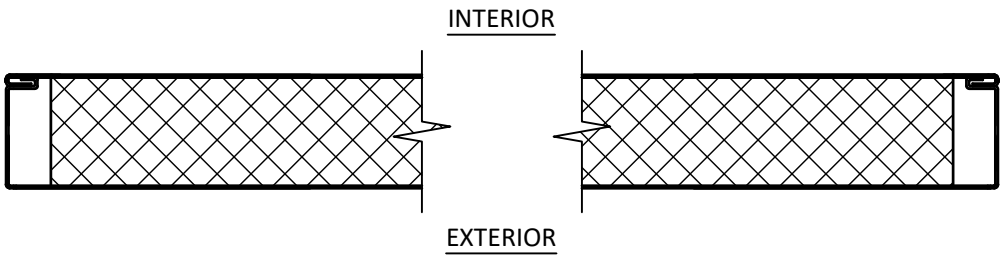
ELEVATION #6
INSWING SINGLE DOOR

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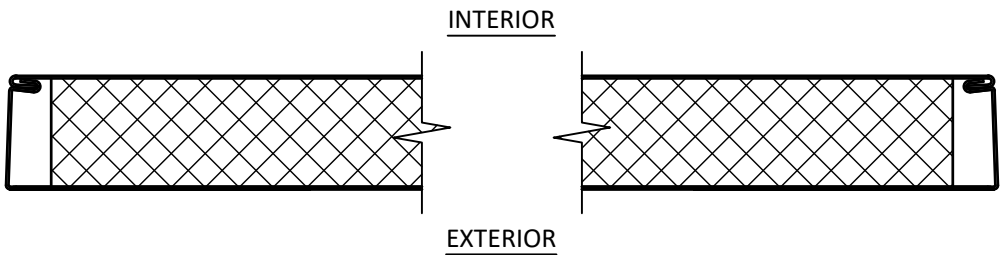
TYP. PANEL

STEEL DOOR SKIN: 18 GA. GALV. (MIN. 0.042" THICK, MIN. Fy = 33 KSI)
CORE MATERIAL: EPS FOAM (POLYSTYRENE - 1.0 PCF MIN. DENSITY)



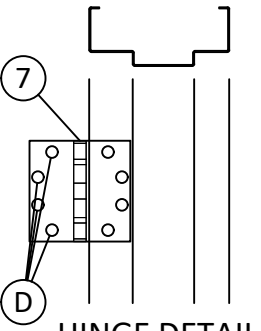
HORIZONTAL SECTION

SQUARED EDGE

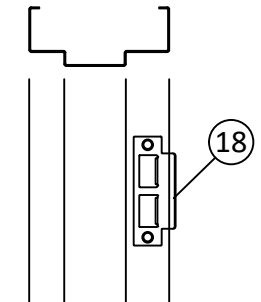


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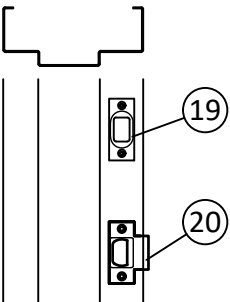
BEVELED EDGE



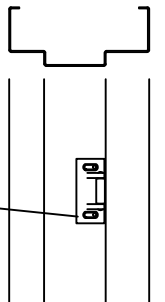
HINGE DETAIL



STRIKE DETAIL
MORTISE LOCK

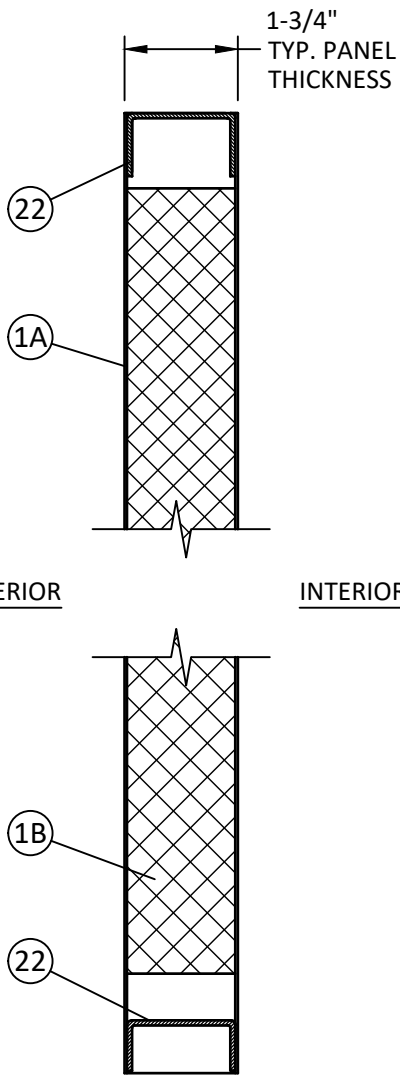


STRIKE DETAIL
CYLINDRICAL LOCK



STRIKE DETAIL
PANIC DEVICE

VERTICAL SECTION



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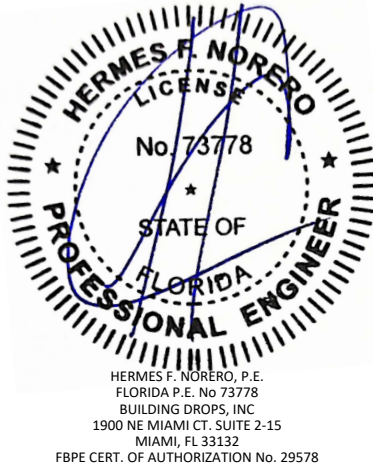
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DOOR PANEL DETAILS

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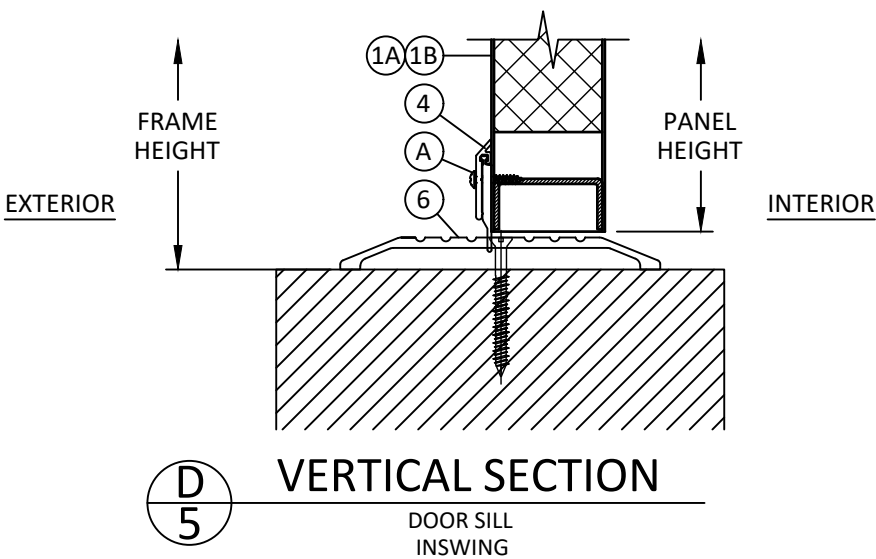
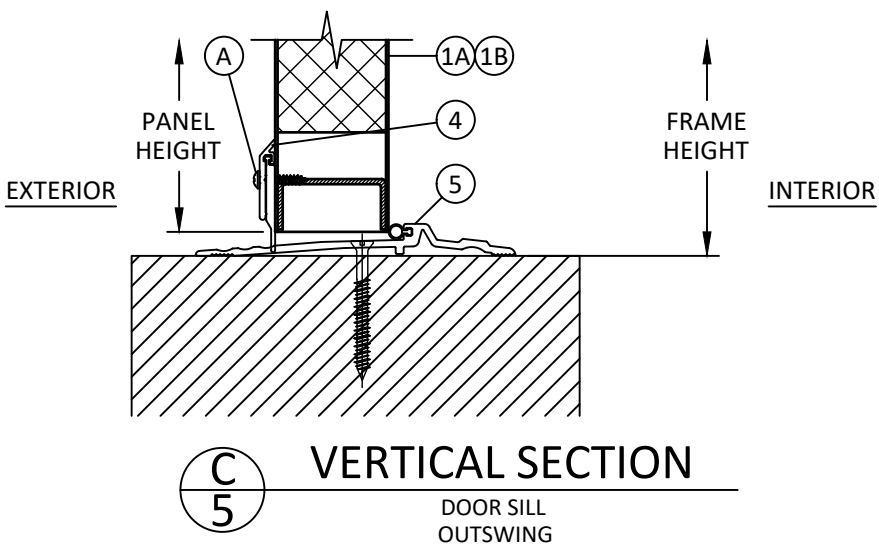
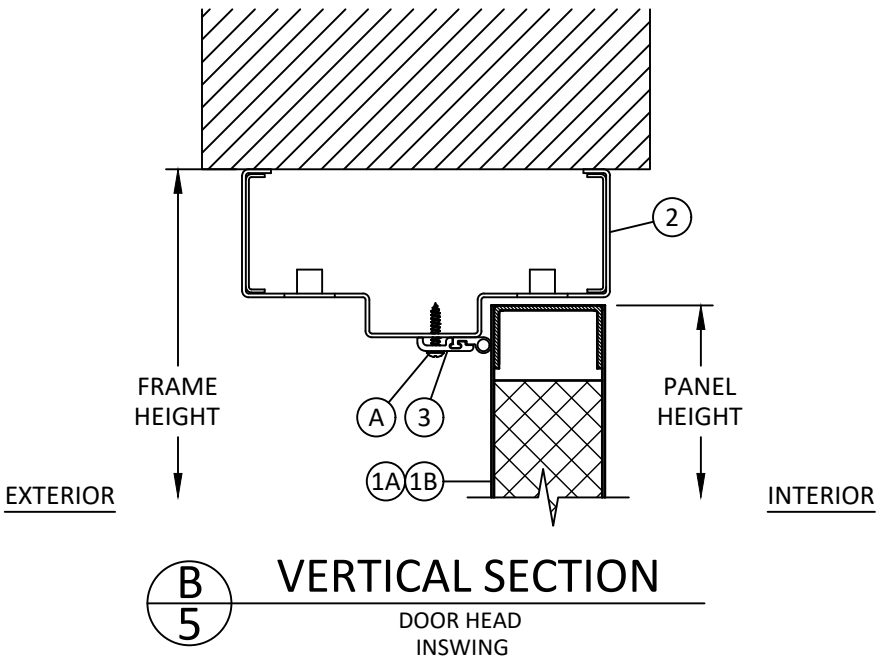
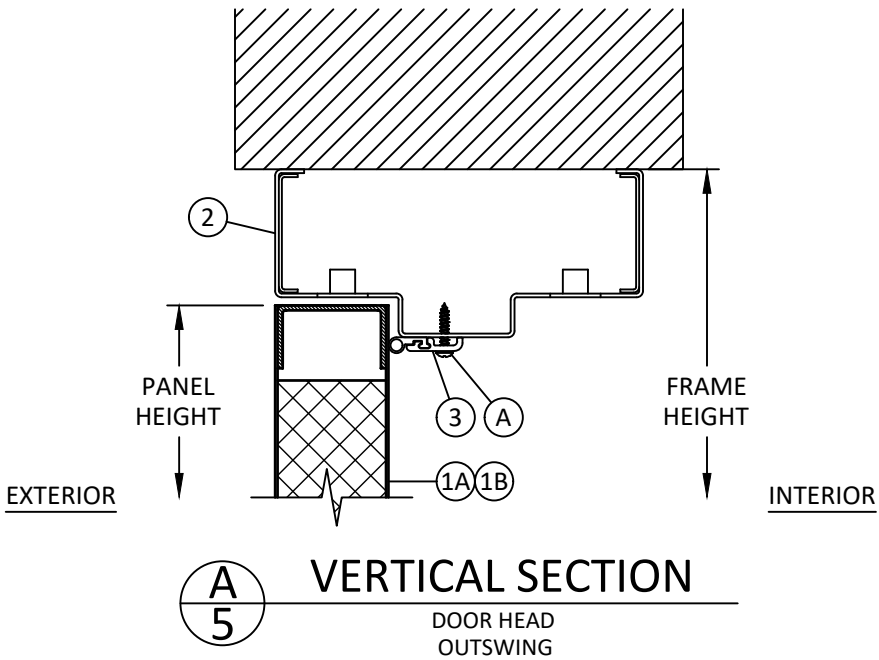
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TITLE: IMPERIAL DOORS AND FRAMES (HVHZ) (IMPACT) VERTICAL SECTIONS	PREPARED BY: BUILDING DROPS, INC. 1900 NE MIAMI CT., SUITE 2-15 MIAMI, FL 33132 PH: (954) 399-8478 FAX: (954) 744-4738 WEB: www.buildingdrops.com	

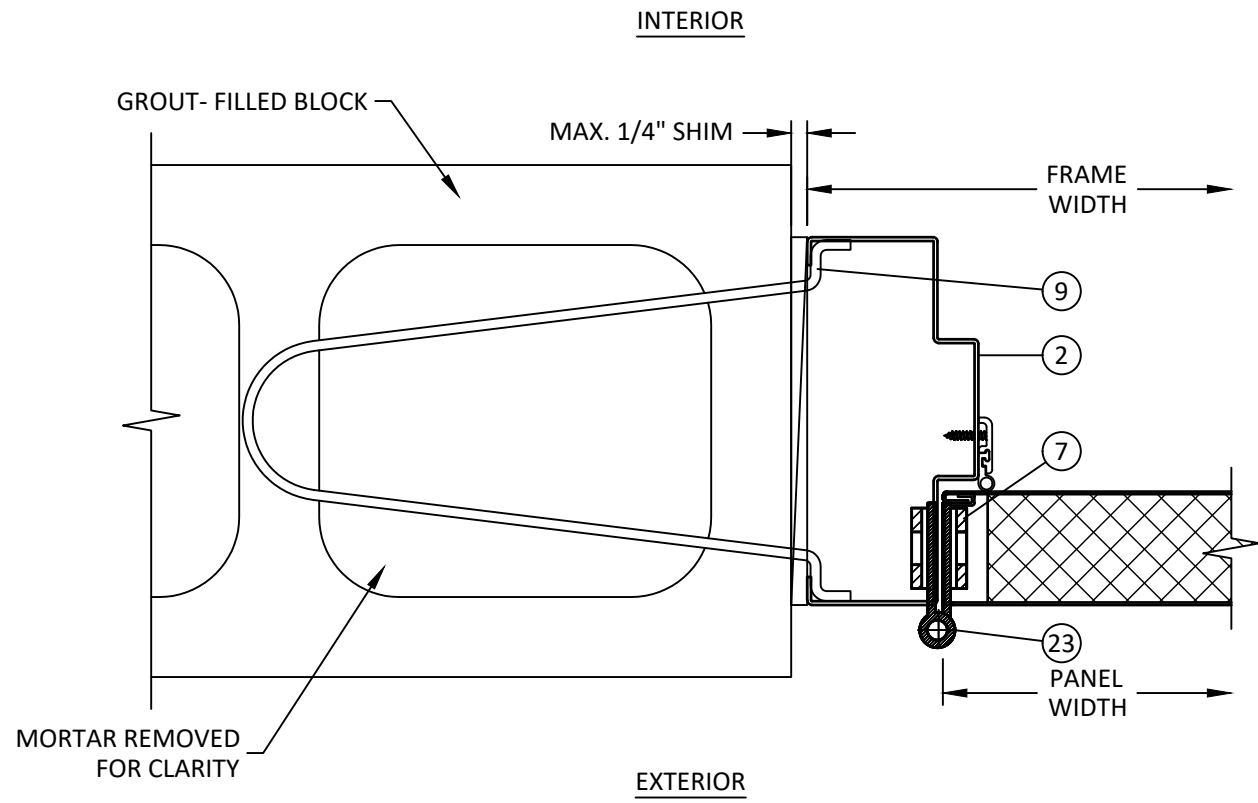
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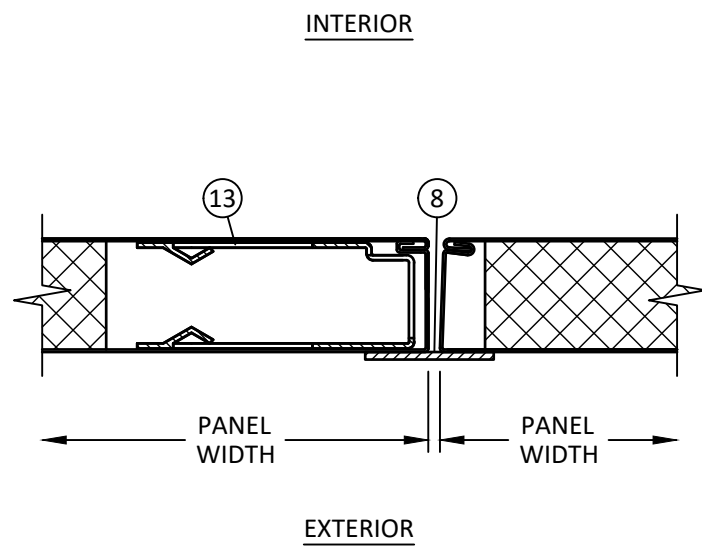
HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
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1900 NE MIAMI CT. SUITE 2-15
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FBPE CERT. OF AUTHORIZATION No. 29578

FL48055	
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DWG. BY: LS	CHK. BY: HFN
SCALE: NTS	
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OF 13	

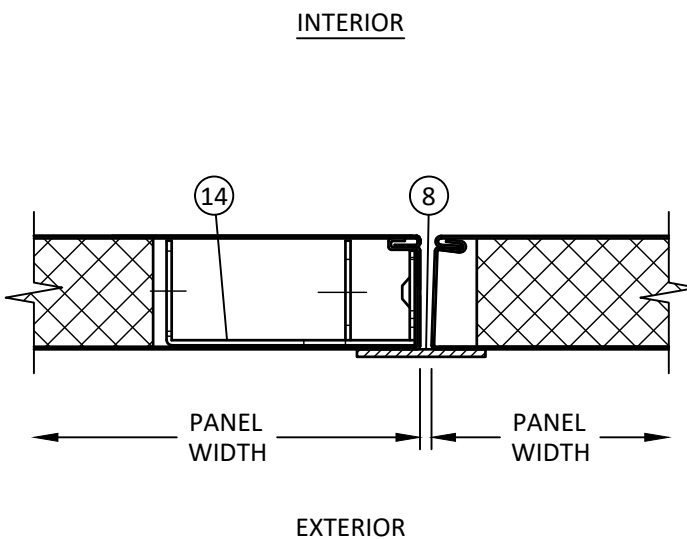
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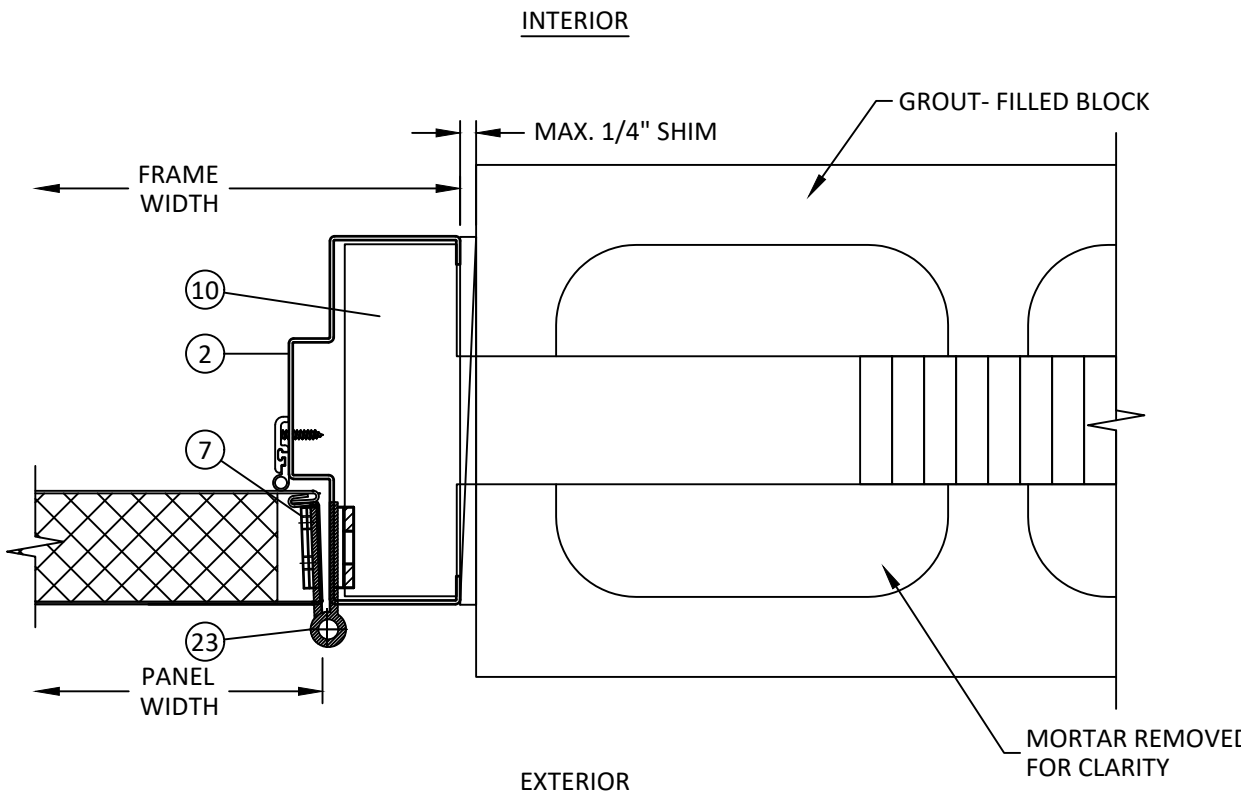
E
6 HORIZONTAL SECTION
DOOR HINGE JAMB
WIRE ANCHOR
OUTSWING



F
6 HORIZONTAL SECTION
ASTRAGAL
MORTISE LOCK



G
6 HORIZONTAL SECTION
ASTRAGAL
CYLINDRICAL LOCK



H
6 HORIZONTAL SECTION
DOOR HINGE JAMB
"T" ANCHOR
OUTSWING

NOTE: OUTSWING DOOR
DETAILS SHOWN, INSWING SIMILAR



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TITLE: IMPERIAL DOORS AND FRAMES (HVHZ) (IMPACT) HORIZONTAL SECTIONS	PREPARED BY: B.D. BUILDING DROPS	
	BUILDING DROPS, INC. 1900 NE MIAMI CT., SUITE 2-15 MIAMI, FL 33132 PH: (954)399-8478 FAX: (954)744-4738 WEB: www.buildingdrops.com	

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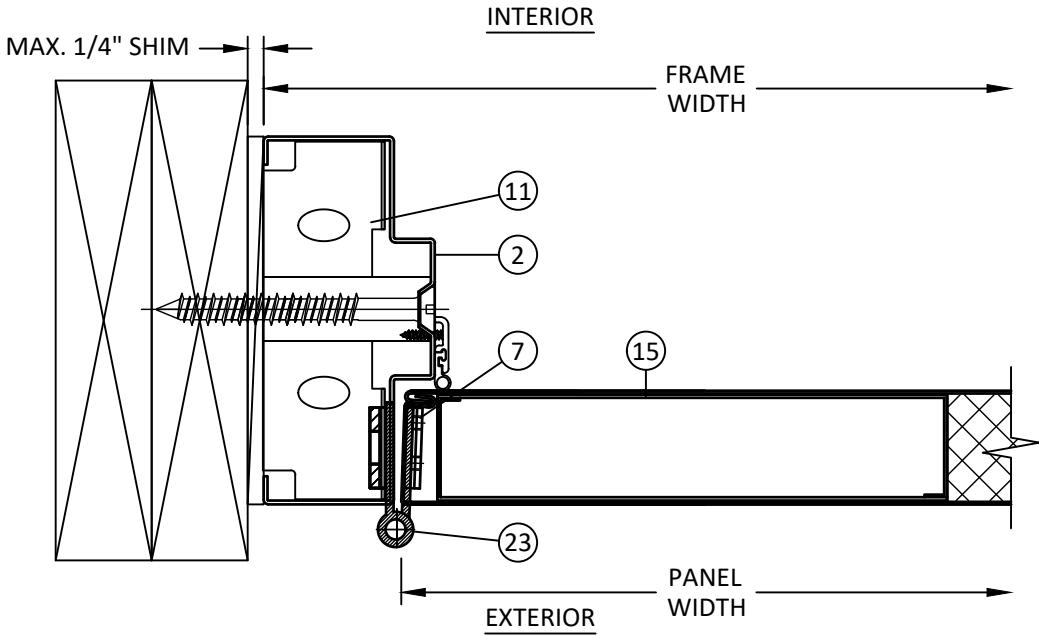
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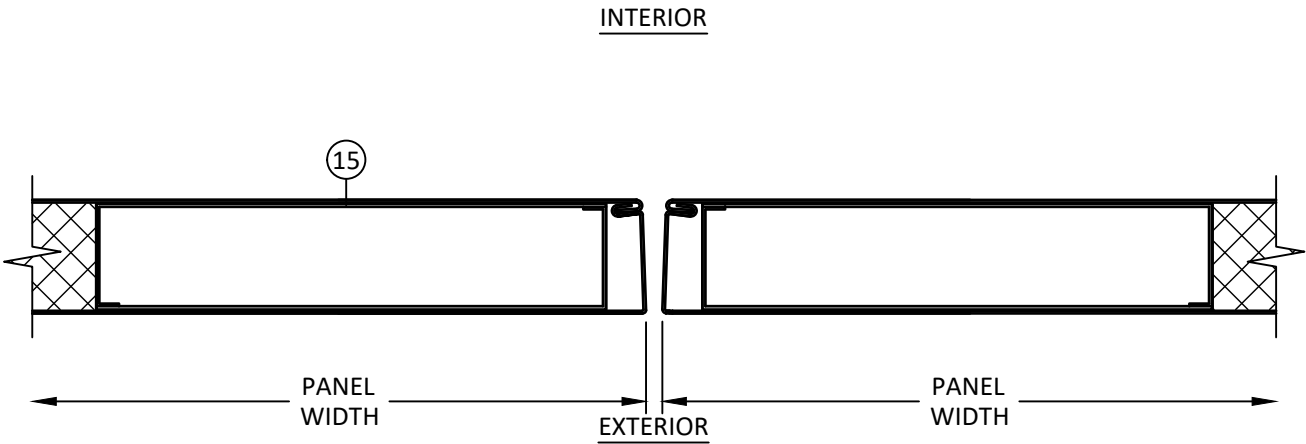
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DATE: 02.24.2026	
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OF 13	

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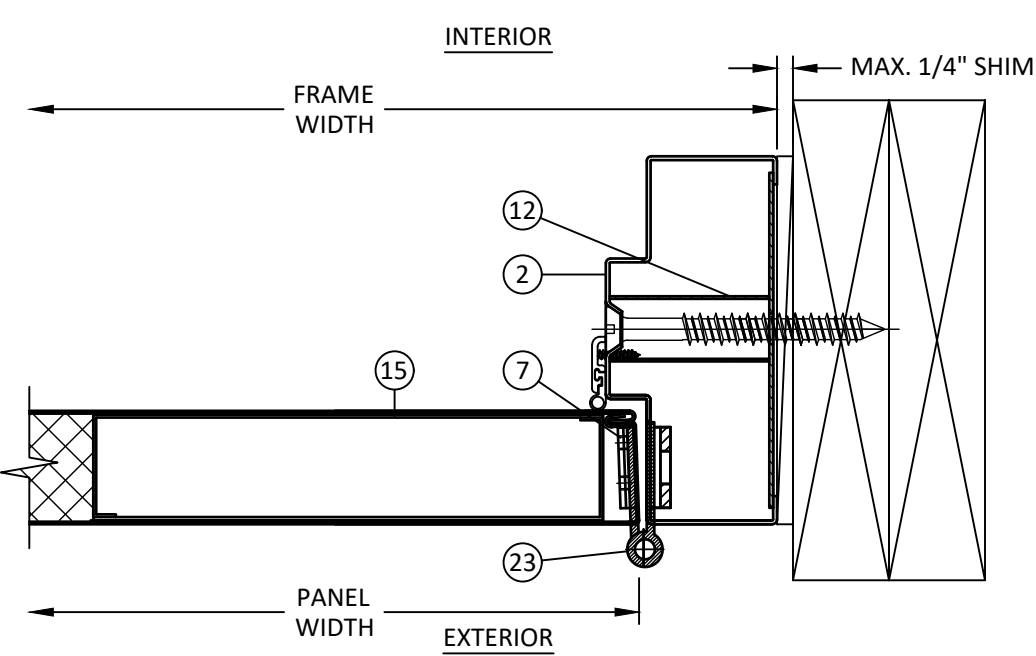
NOTE: OUTSWING/INSWING
DOOR DETAILS SHOWN,
INSWING/OUTSWING SIMILAR



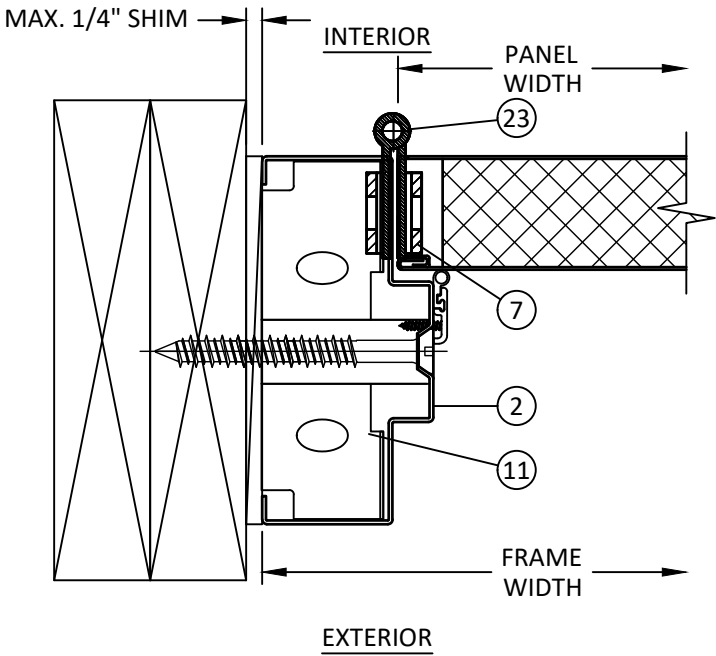
I
7 HORIZONTAL SECTION
DOOR HINGE JAMB
BUTTERFLY ANCHOR
OUTSWING



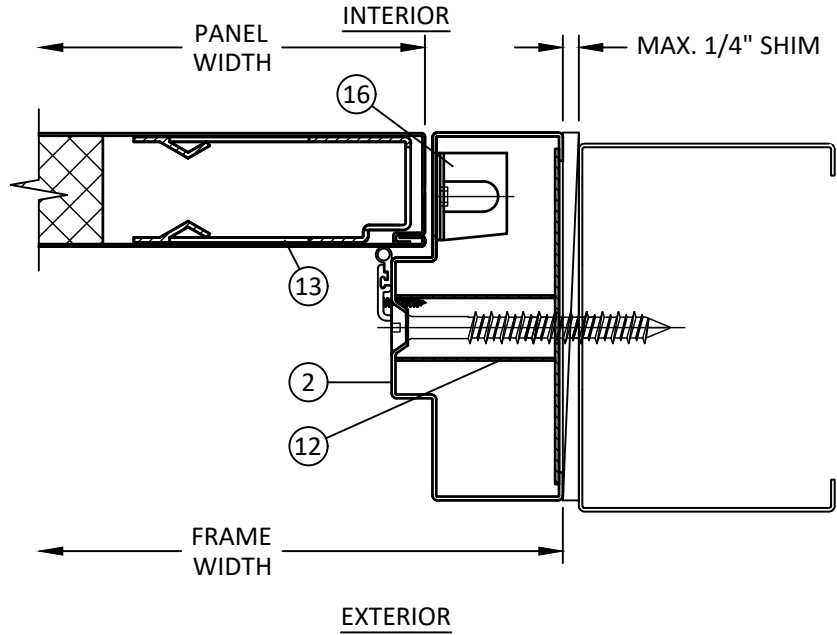
J
7 HORIZONTAL SECTION
PANIC DEVICE



K
7 HORIZONTAL SECTION
DOOR HINGE JAMB
TUBE + STRAP ANCHOR
OUTSWING



L
7 HORIZONTAL SECTION
DOOR HINGE JAMB
BUTTERFLY ANCHOR
INSWING



M
7 HORIZONTAL SECTION
DOOR JAMB - MORTISE LOCK
TUBE + STRAP ANCHOR
INSWING

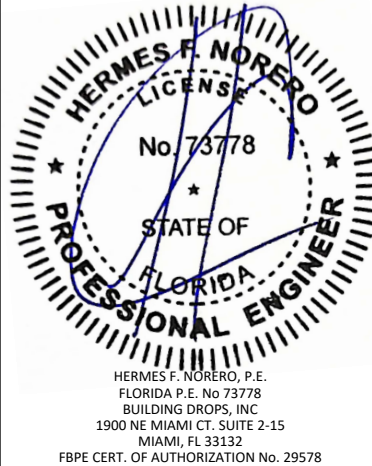


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HERMES F. NORERO
LICENSE
No. 73778
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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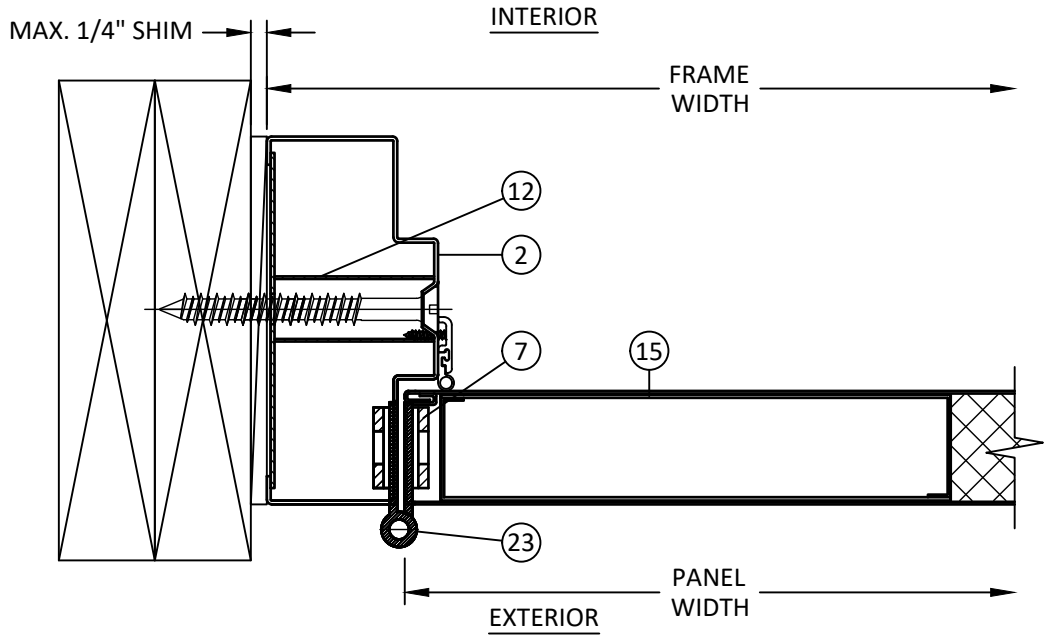
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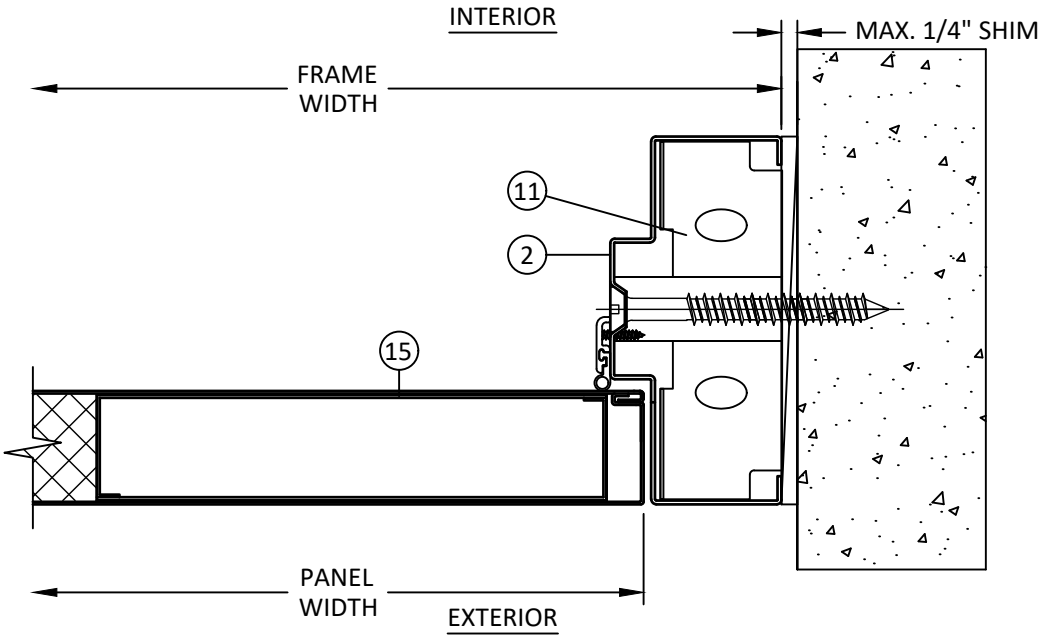
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REV. A

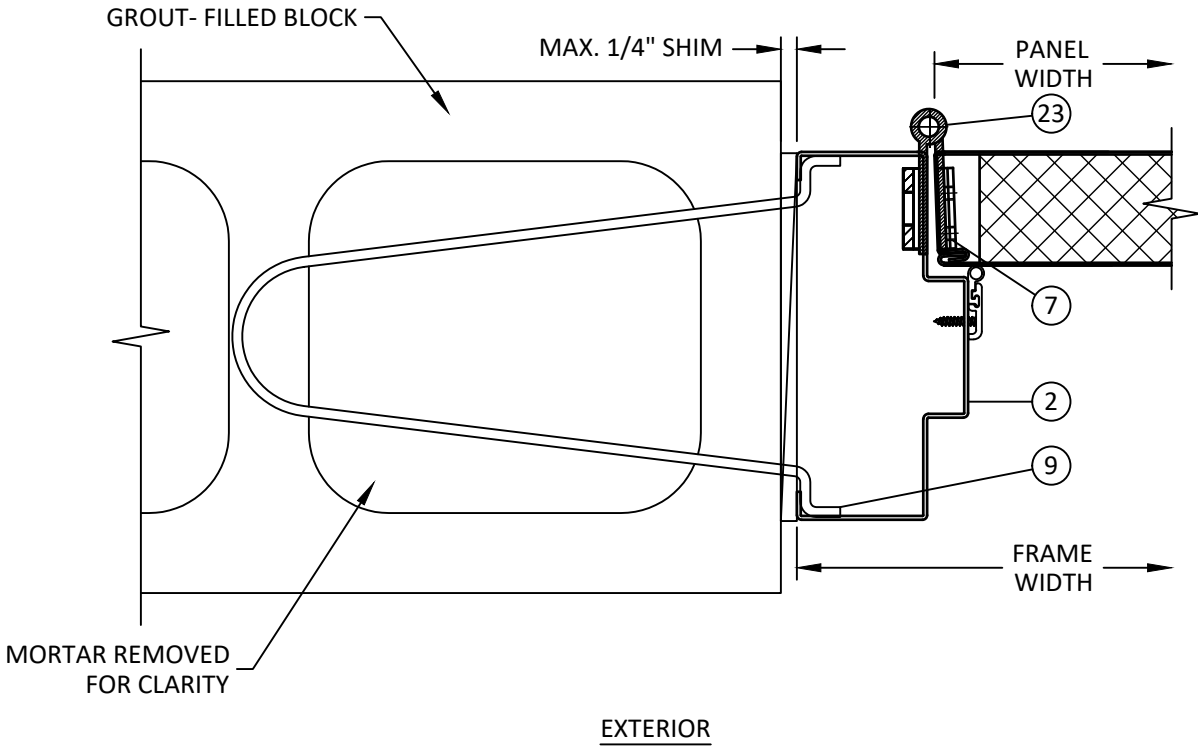
NOTE: OUTSWING/INSWING
DOOR DETAILS SHOWN,
INSWING/OUTSWING SIMILAR



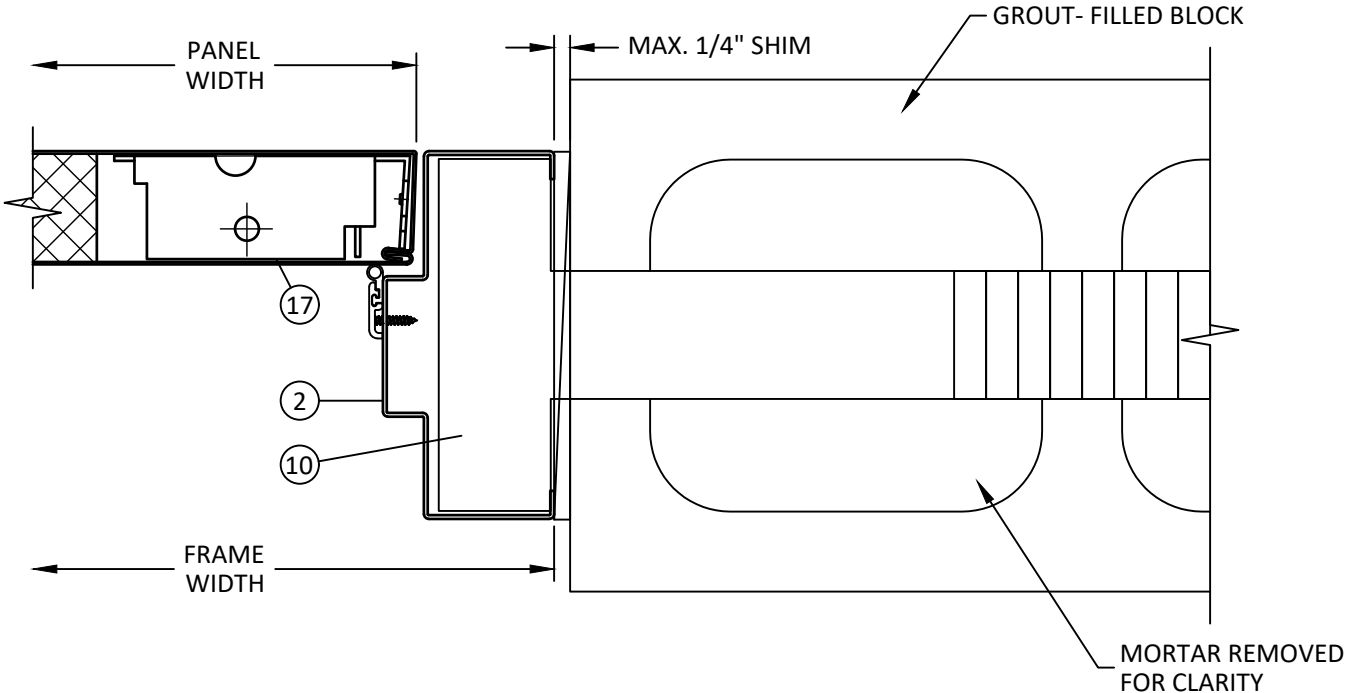
P
8 HORIZONTAL SECTION
DOOR HINGE JAMB
TUBE + STRAP ANCHOR
OUTSWING
INTERIOR



Q
8 HORIZONTAL SECTION
DOOR JAMB - PANIC DEVICE
BUTTERFLY ANCHOR
OUTSWING
INTERIOR

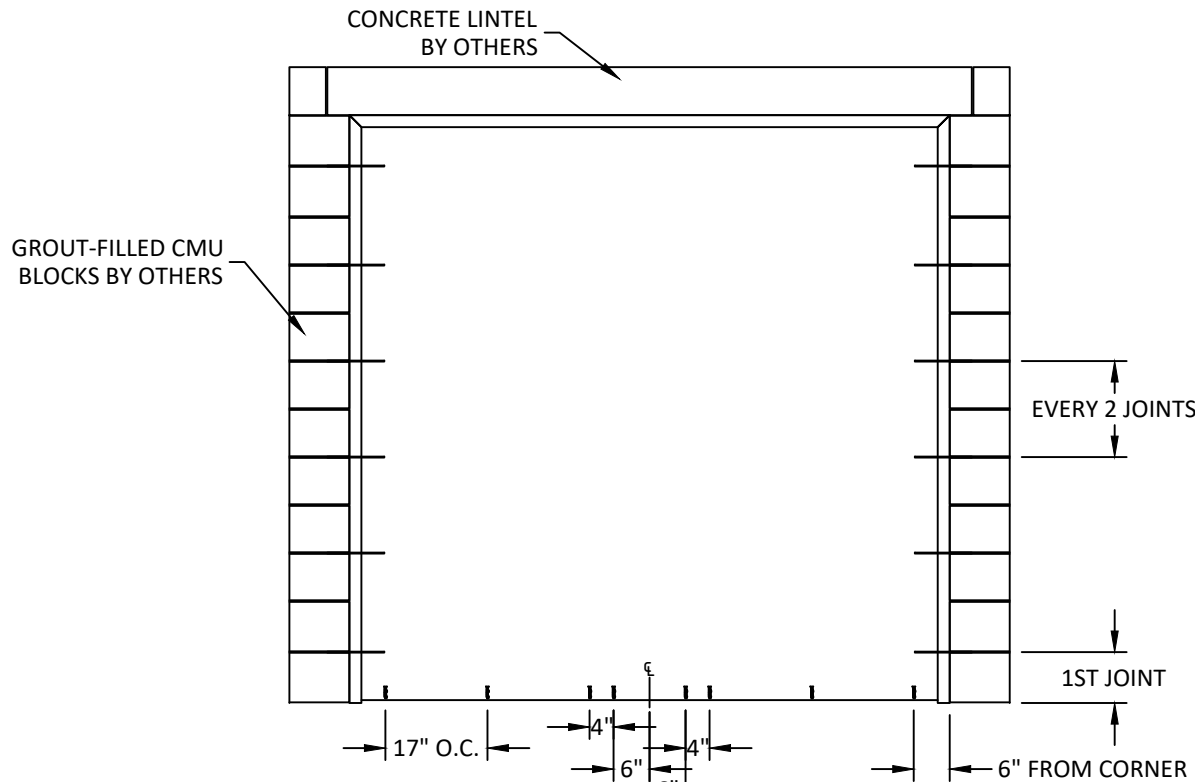


R
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DOOR HINGE JAMB
WIRE ANCHOR
INSWING
EXTERIOR

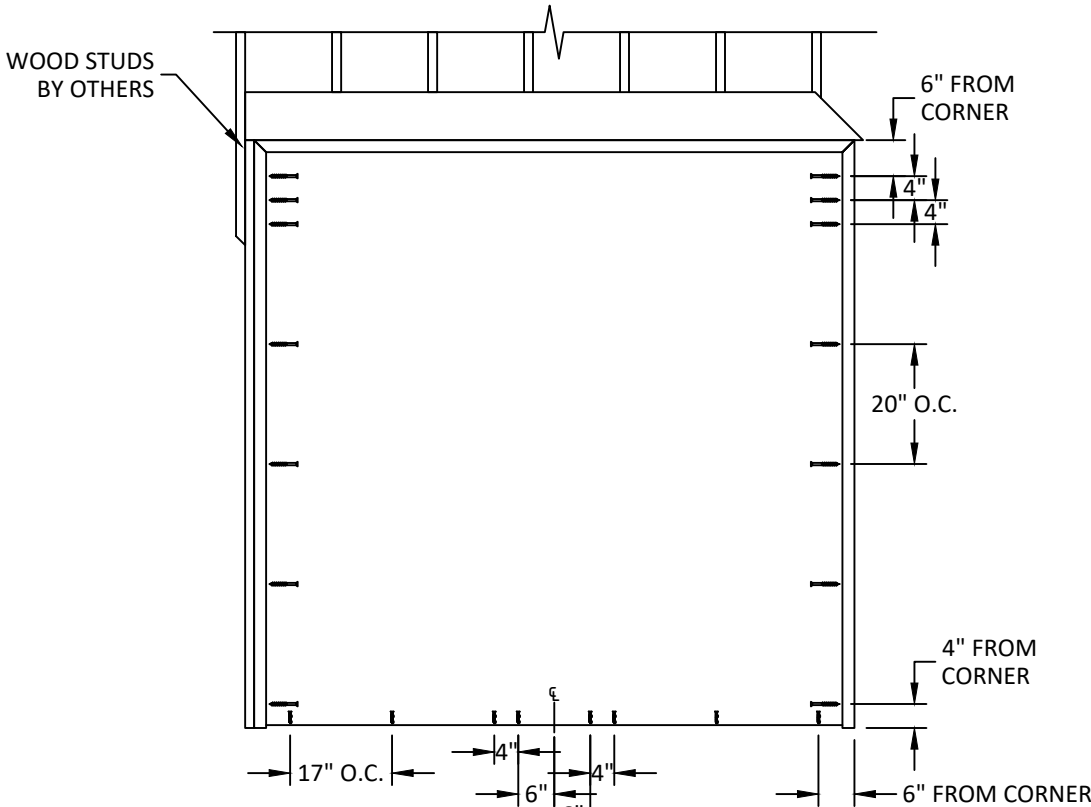


S
8 HORIZONTAL SECTION
DOOR JAMB - CYLINDRICAL LOCK
"T" ANCHOR
INSWING
EXTERIOR

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ANCHOR LAYOUT
MASONRY SUBSTRATE
WIRE ANCHOR OR T ANCHOR
ELEVATION #1,2,3



ANCHOR LAYOUT
WOOD STUD OUTSWING DOOR/METAL STUD
TUBE ANCHOR, STRAP ANCHOR, OR BUTTERFLY ANCHOR
ELEVATION #1,2,3



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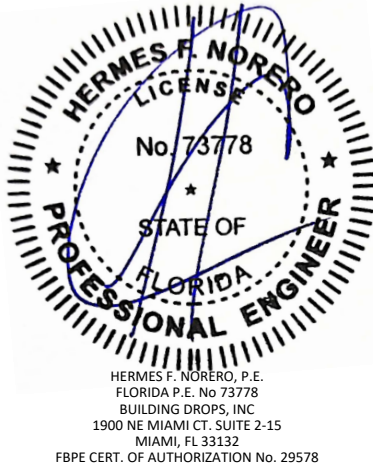
TITLE:
IMPERIAL DOORS AND FRAMES
(HVHZ) (IMPACT)
ANCHOR LAYOUTS

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI CT., SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
2026 CODE CHANGE	HJ	7/26

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ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC
DOCUMENTS FOR USE WITH THIS DOCUMENT.



FL48055

DATE: **02.24.2026**

DWG. BY:
LS

CHK. BY:
HFN

SCALE: **NTS**

DWG. #: **IMU003**

SHEET:

9

REV.

A

ANCHOR SCHEDULE				
LOCATION	SUBSTRATE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DISTANCE
JAMB	WOOD: MIN. S.G. = 0.55	#14 WOOD SCREW	1-1/2"	1"
	STEEL: MIN. 16 GA. MIN. Fy = 33 ksi	1/4" GRADE 5 SELF-DRILLING/ SELF-TAPPING SCREW	3 THREADS MIN PENETRATION BEYOND METAL	1/2"
	ALUMINUM: MIN. 1/8" THICK MIN. 6063-T5			
	CONCRETE: MIN. f'c = 3000 psi	1/4" ITW TAPCON	1-3/4"	1-1/2"
	MASONRY: CMU per ASTM C90 MIN. 2000 PSI	WIRE ANCHOR, OR T-ANCHOR	-	-
SILL	WOOD: MIN. S.G. = 0.55	#14 WOOD SCREW	1-1/2"	1"
	STEEL: MIN. 16 GA. MIN. Fy = 33 ksi	1/4" GRADE 5 SELF-DRILLING/ SELF-TAPPING SCREW	3 THREADS MIN PENETRATION BEYOND METAL	1/2"
	ALUMINUM: MIN. 1/8" THICK MIN. 6063-T5			
	CONCRETE: MIN. f'c = 3000 psi	1/4" ITW TAPCON	1-1/2"	1-5/8"

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION OF THE MAXIMUM SIZE LISTED.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH THE DEPICTED LOCATION & SPACING IN THE ANCHOR LAYOUT DETAILS (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
- FOR MASONRY OR CONCRETE OPENINGS, A 1X WOOD BUCK MAY BE USED (OPTIONAL) AS LONG AS THE MINIMUM EMBEDMENT AND EDGE DISTANCE REQUIREMENTS ARE STILL MET WITHIN THE CORRESPONDING HOST SUBSTRATE. SEE GENERAL NOTE #3 ON SHEET 1 FOR MORE INFORMATION.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
 - FASTENERS USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE AND INSTALLED IN ENCLOSED SPACES SHALL BE GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.1 (E.G., ASTM A153 CLASS D, ASTM A641 CLASS 3S, OR EQUIVALENT CORROSION RESISTANCE).
 - CONNECTORS AND METAL PLATES USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE SHALL BE STANDARD GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.2 (E.G., ASTM A653 G90, ASTM A123, OR PROTECTIVE COATING PER TPI 1).
- FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
- INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.



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TITLE:
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(HVHZ) (IMPACT)

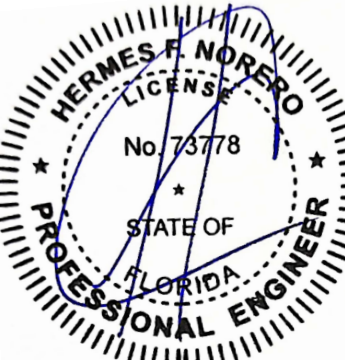
INSTALLATION NOTES

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REMARKS	BY	DATE
2026 CODE CHANGE	HJ	7/26

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FLORIDA P.E. No. 73778
BUILDING DROPS, INC
1900 NE MIAMI CT. SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL48055

DATE: 02.24.2026

DWG. BY:
LS

CHK. BY:
HFN

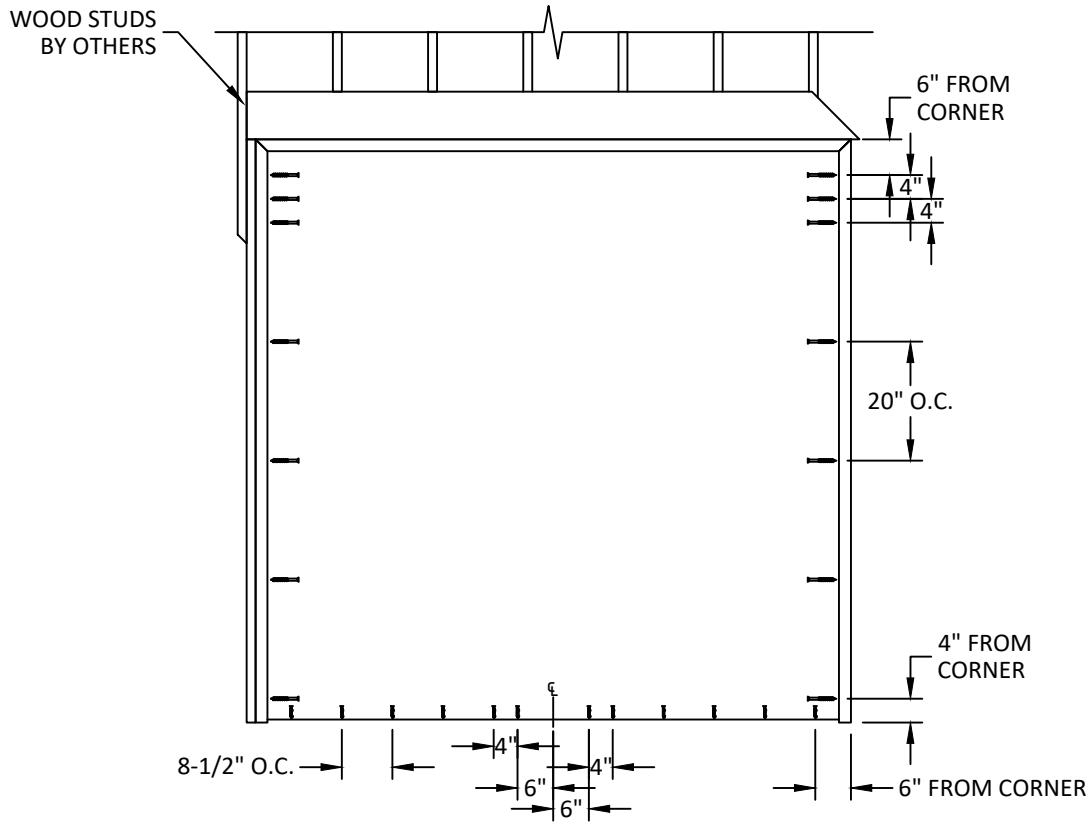
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DWG. #: IMU003

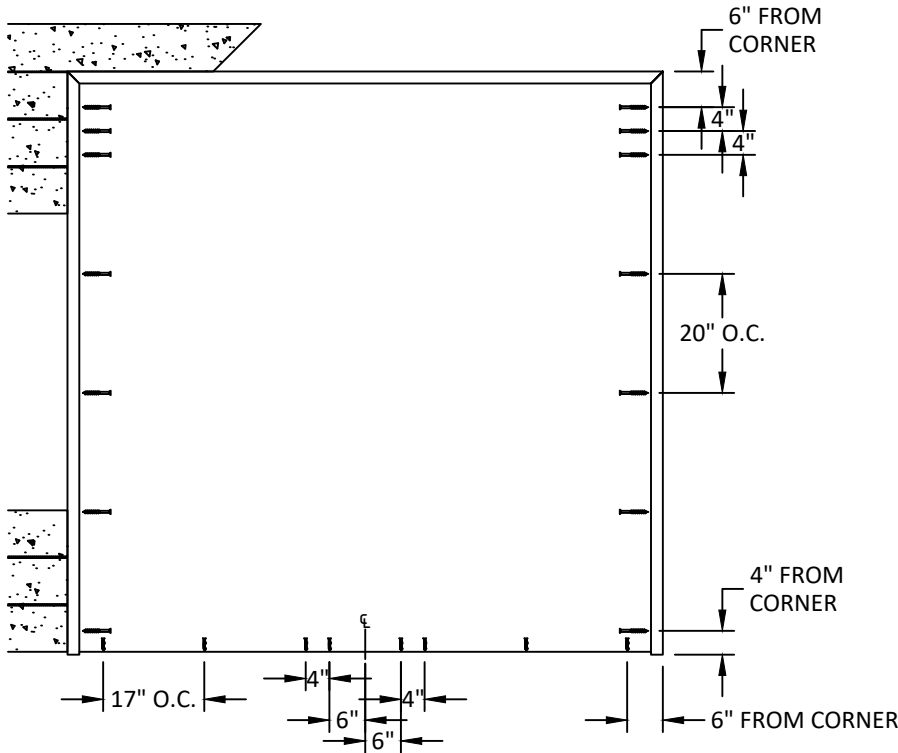
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REV. A

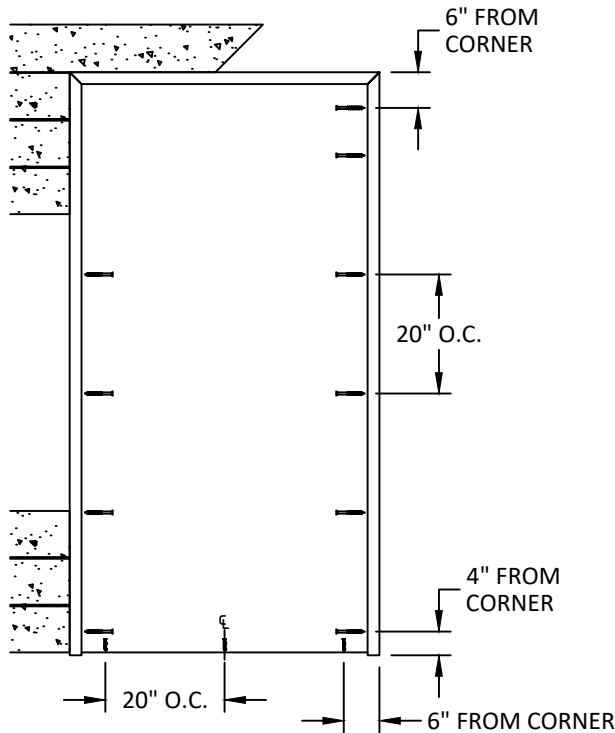
OF 13



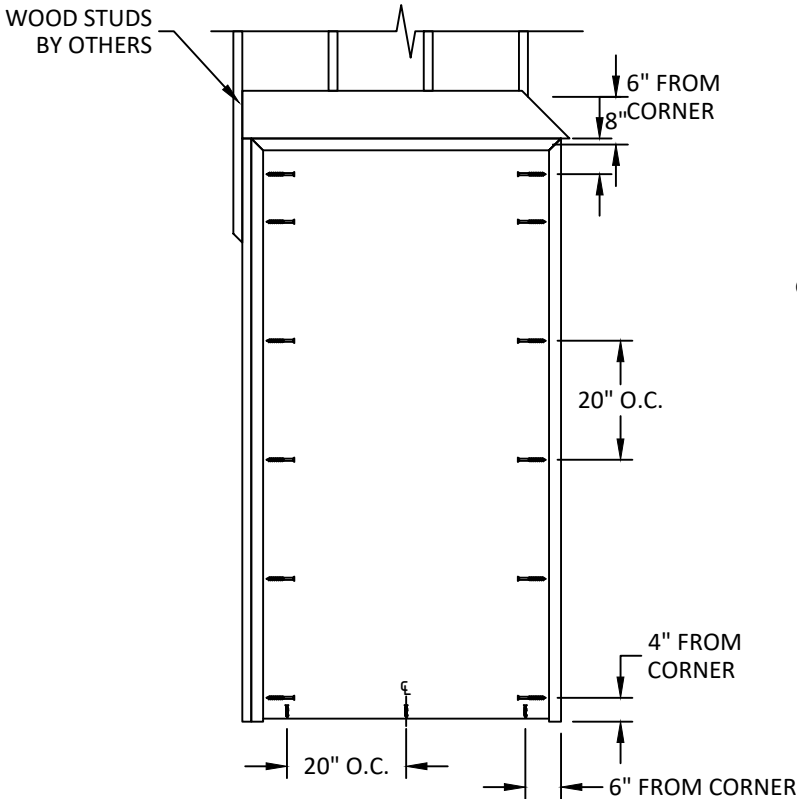
ANCHOR LAYOUT
WOOD STUD INSWING DOOR
TUBE ANCHOR, STRAP ANCHOR, OR BUTTERFLY ANCHOR
ELEVATION #1,2,3



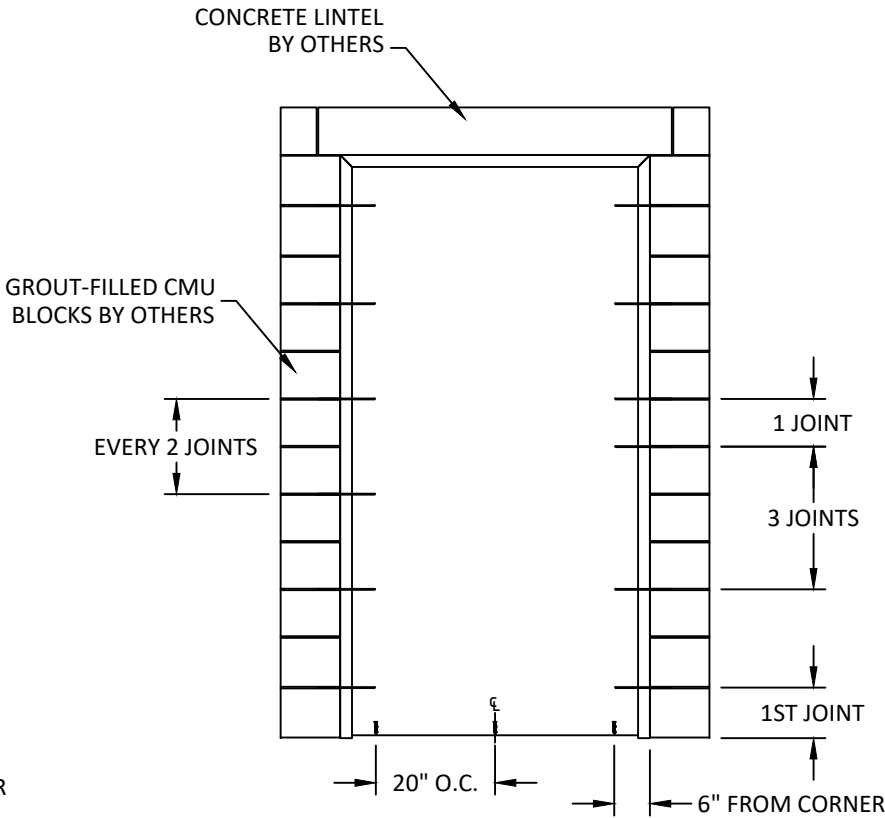
ANCHOR LAYOUT
CONCRETE SUBSTRATE
TUBE/BUTTERFLY ANCHOR
ELEVATION #1,2,3



ANCHOR LAYOUT
CONCRETE SUBSTRATE
TUBE/BUTTERFLY ANCHOR
ELEVATION #4,5,6



ANCHOR LAYOUT
WOOD/METAL STUDS
TUBE ANCHOR, STRAP ANCHOR, OR BUTTERFLY ANCHOR
ELEVATION #4,5,6



ANCHOR LAYOUT
MASONRY SUBSTRATE
WIRE ANCHOR OR T ANCHOR
ELEVATION #4,5,6



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TITLE:
IMPERIAL DOORS AND FRAMES
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ANCHOR LAYOUTS

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FL48055

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DWG. BY: LS CHK. BY: HFN

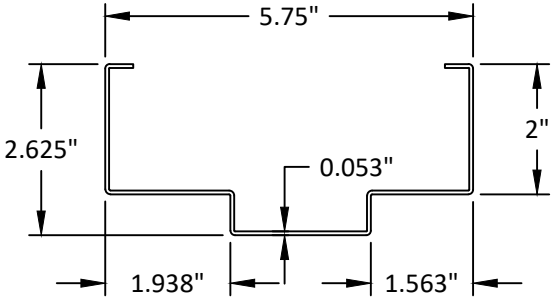
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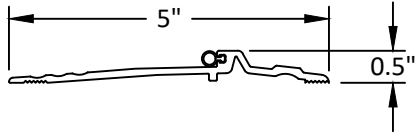
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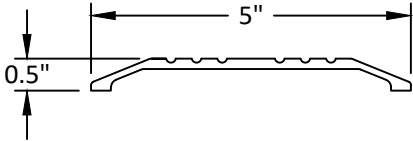
BILL OF MATERIALS		
ITEM#	DESCRIPTION	MATERIAL
1A	DOOR SKIN (18 GA.)	STEEL
1B	DOOR INFILL	POLYSTYRENE
2	HOLLOW METAL FRAME (16 GA.)	STEEL
3	GASKET (NGP 137 NA)	-
4	DOOR SWEEP (NGP 200 NA)	-
5	THRESHOLD (NGP 896)	ALUMINUM
6	THRESHOLD (NGP 425)	ALUMINUM
7	HINGE REINFORCEMENT	STEEL
8	ASTRAGAL	STEEL
9	WIRE ANCHOR	STEEL
10	"T" ANCHOR	STEEL
11	BUTTERFLY ANCHOR	STEEL
12	TUBE ANCHOR	STEEL
13	MORTISE LOCK REINFORCEMENT	STEEL
14	CYLINDRICAL LOCK REINFORCEMENT (DOUBLE DOOR)	STEEL
15	RIM PANIC BOX	STEEL
16	LOCK REINFORCEMENT	STEEL
17	CYLINDRICAL LOCK REINFORCEMENT (SINGLE DOOR)	STEEL
18	MORTISE LOCK STRIKE PLATE	STEEL
19	DEADBOLT STRIKE PLATE	STEEL
20	CYLINDRICAL LOCK STRIKE PLATE	STEEL
21	RIM PANIC DEVICE STRIKE PLATE	STEEL
22	DOOR CHANNEL (TOP & BOTTOM, 16 GA.)	STEEL
23	DOOR HINGE	STEEL
24	STRAP ANCHOR	STEEL
A	#6 x 3/4" SS SHEET METAL SCREW	STAINLESS STEEL



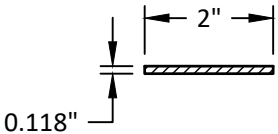
2 HOLLOW METAL FRAME



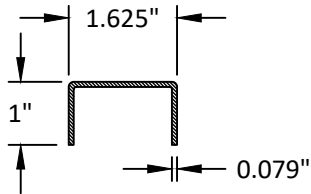
5 THRESHOLD
NGP 896



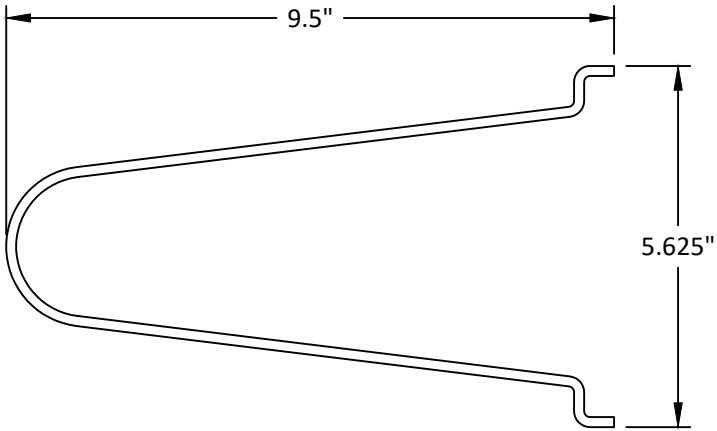
6 THRESHOLD
NGP 425



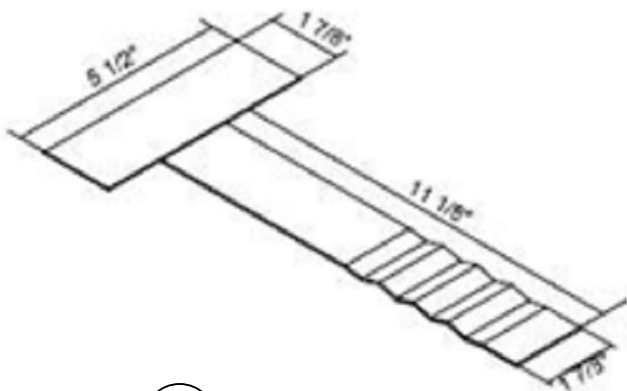
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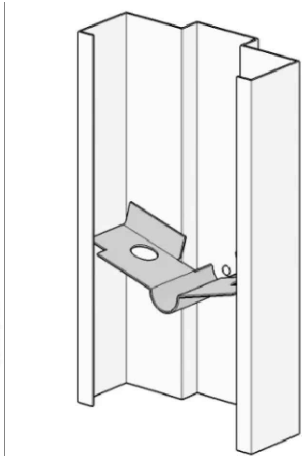
22 DOOR CHANNEL
TOP & BOTTOM



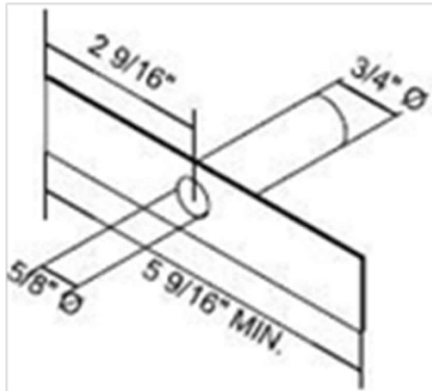
9 WIRE ANCHOR



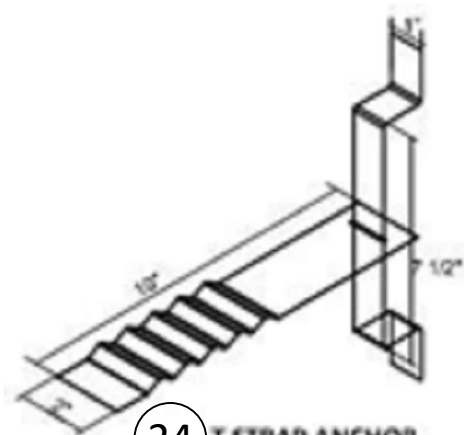
10 T ANCHOR



11 BUTTERFLY ANCHOR



12 TUBE ANCHOR



24 T STRAP ANCHOR



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BILL OF MATERIALS
& COMPONENTS

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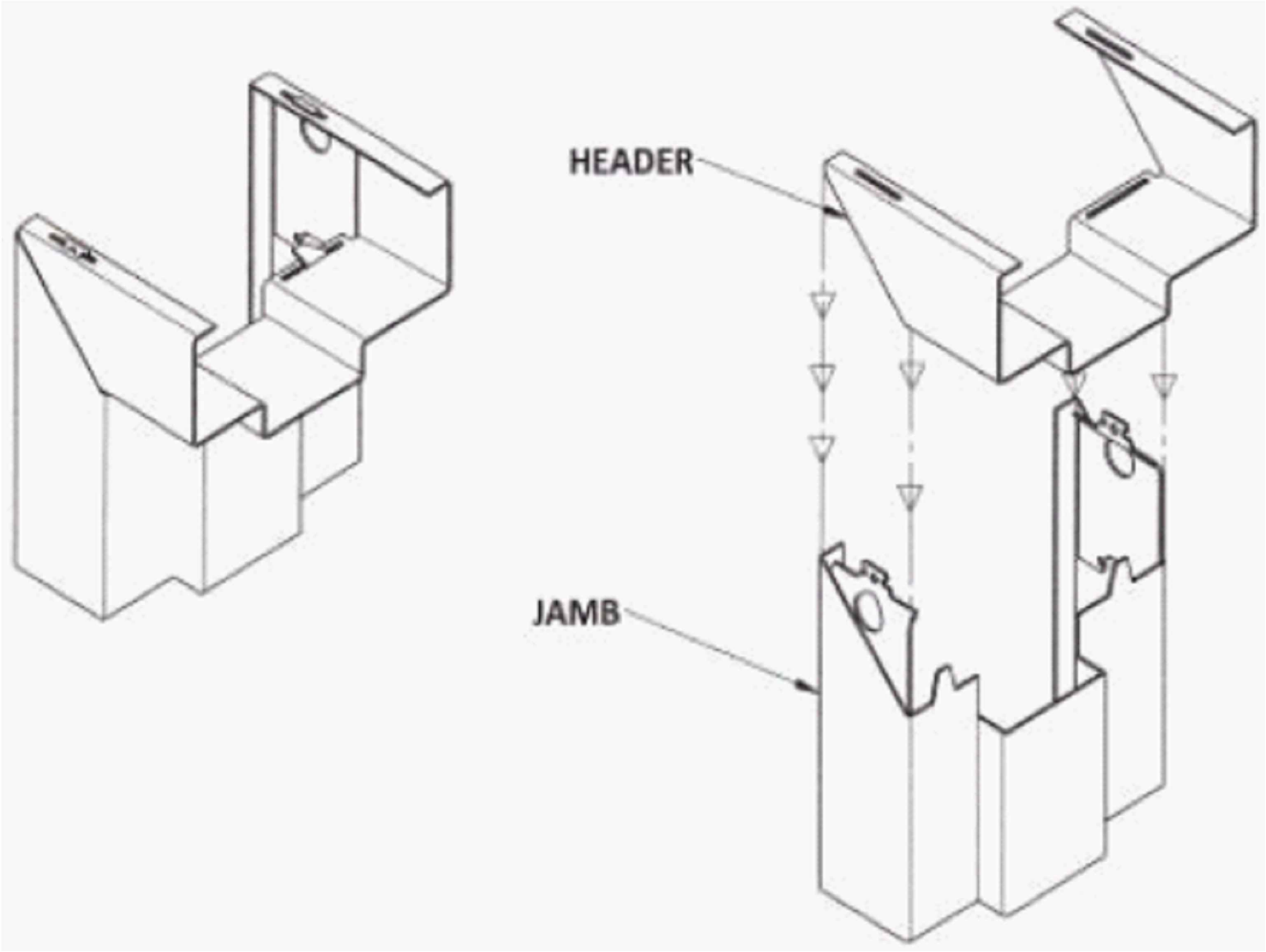
DWG. BY: LS CHK. BY: HFN

SCALE: NTS

DWG. #: IMU003

SHEET: 12 REV. A

OF 13



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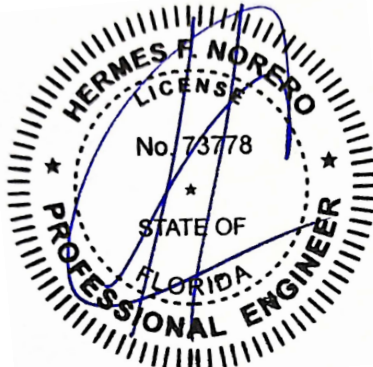
CORNER COMPONENT DETAILS

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