

ALLEGION - SCHLAGE LOCK COMPANY, LLC.

DOUBLE OUTSWING COMMERCIAL STEEL DOOR SYSTEMS WITH LOUVERS

(HVHZ)(IMPACT)

GENERAL NOTES:

1. THESE PRODUCTS HAVE BEEN TESTED TO HVHZ PROTOCOLS TAS 201, 202, 203-94, ASTM PROTOCOLS E330-14 AND COMPLY WITH THE CURRENT FLORIDA BUILDING CODE.
2. THE DOORS ARE LARGE AND SMALL MISSILE IMPACT RATED.

NOTES:

1. ALL DIMENSIONS SHOWN MAX. AND TYP. FOR ALL DOOR/FRAME MODELS, UNLESS OTHER INDICATED.
2. ANCHOR REQUIREMENTS: SEE SHEETS 8-13 & 26-31 FOR APPROVED ANCHORS AND INSTALLATION.
3. HINGE REQUIREMENTS: 4.5" STD WT. MIN. (MIN. 3 HINGES) BUTTS OR CONTINUOUS HINGE FOR DOOR OPENING UP TO 7'0" HIGH - MIN (3) HINGES
LOCATIONS: 7.125" MIN - 9.75" MAX. FROM RABBET IN HEAD TO CL OF TOP HINGE
9" MIN. -12.25" MAX. FROM FLOOR TO CL OF BOTTOM HINGE, EQUALLY SPACED IN BETWEEN.
NOT TO EXCEED 35.5" FOR THREE HINGES
4. APPROVED CONTINUOUS HINGE MODELS: SEE SHEET 16
5. SEE SHEETS 2, 3, 6, 7, 23 AND 25 FOR AVAILABLE STANDARD OPENING SIZES AND SPECIFICATIONS.
6. HARDWARE INSTALLATION AS PER MANUFACTURER'S INSTRUCTIONS.
7. HEAD SECTION CAN HAVE 4" FACE DIMENSIONS WHEN IT'S GROUTED WITH CONCRETE.
8. APPLY CAULK AS NEEDED
9. WHEN WATER INFILTRATION RATING IS NOT REQUIRED, INSTALL GASKETING PER SHEET 14 & 15.
10. MASONRY WIRE, T ANCHORS AND EXISTING MASONRY ANCHORS WITHOUT BOLT MAY BE USED IN MIN. 2700PSI POURED CONCRETE TILT UP WALLS.
11. WOOD OR STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY THE APPROPRIATE LOAD DESIGN
12. ELECTRIFIED AND FIRE RATED OPTIONS OF APPROVED HARDWARE ARE ACCEPTABLE. INSTALLATION AND APPLICATION IS UNDER SEPARATE APPROVAL AND IS REVIEWED BY THE CORRESPONDING AUTHORITY. FIRE RATING NOT PART OF THIS APPROVAL, CONSULT MANUFACTURER FOR APPROVED CONFIGURATIONS.
13. OPTIONAL POWER TRANSFERS, MONITORING SWITCHES, SUPPLEMENTAL MAGNETIC LOCKS MAY BE USED AS ALLOWED BY CODE AND DOES NOT EFFECT THE MECHANICAL PROPERTIES OF HARDWARE AND OR INHIBIT EGRESS. TO BE REVIEWED BY THE BUILDING OFFICIAL.
14. INSTALL REINFORCEMENT CHANNELS (ITEM #23) AROUND EACH LOUVER-CUTOUT

DESIGN PRESSURE RATING		IMPACT RATING
WHERE WATER AND AIR INFILTRATION REQUIREMENTS ARE NEEDED	WHERE WATER AND AIR INFILTRATION REQUIREMENTS ARE <u>NOT</u> NEEDED	LARGE AND SMALL MISSILE IMPACT LARGE MISSILE IMPACT 50 F/S
NOT APPROVED	+ 60 PSF / -60 PSF	

CONSTRUCTION NOTES:

1. DOOR CONSTRUCTION

1.1. NOMINAL DOOR THICKNESS - 1 3/4"

1.2. LOUVER OPENING SIZE TESTED (SEE SHEET 15) IS MAX AVAILABLE FOR 8'0" X 8'0" OPENING. ALL SMALLER SIZES ARE ACCEPTABLE.

1.3. MAXIMUM LOUVER OPENING SIZES WILL CHANGE IN PROPORTION WITH DOOR SIZE, KEEPING THE SAME STILE AND RAIL MINIMUM DIMENSIONS SPECIFIED IN ELEVATION. (SEE SHEET 3 & 23)
2. FRAME CONSTRUCTION

2.1. MINIMUM JAMB DEPTH - 5 3/4", STOP HEIGHT - 5/8"

2.2. STEELCRAFT FRAMES AVAILABLE AS FLUSH (F-SERIES) AND MULTI-USE (MU-SERIES) (SEE TABLE 4, SHT. 7). REPUBLIC FRAME OPTIONS AVAILABLE AS ME-SERIES AND SE-SERIES (SEE TABLE 9, SHT. 25).
3. FOR STEELCRAFT DOOR/FRAME MATERIAL SPECIFICATIONS REFERENCE SEE TABLE 5, SHT. 7. FOR REPUBLIC DOORS DOOR/FRAME MATERIAL SPECIFICATIONS REFERENCE SEE TABLE 10, SHT. 25.
4. FRAME CORNER WELD: CONTINUOUS BACK WELD WITH FULL PENETRATION TO FACE SEAM. GRIND, SMOOTH, PRIME, & PAINT. WELD CLASSIFICATION - E70XX. SEE SHEET 7 & 25 FOR DETAIL.

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	GENERAL NOTES AND DESIGN PRESSURE TABLE
2	TABLE 1: DOOR CONFIG. & LOCKING HARDWARE
3	STEELCRAFT: OPENING DIMENSIONS & BOM
4	DOOR & FRAME VERTICAL SECTION VIEWS
5	DOOR & FRAME HORIZONTAL SECTION VIEWS
6	DOOR PANEL & CORE DETAILS
7	STEELCRAFT: FRAME DETAILS & CORNER CONSTRUCTION
8	STEELCRAFT: ANCHORS - WIRE OR T MASONRY ANCHOR & WOOD STUD
9	STEELCRAFT: ANCHORS - STEEL STUD & EMA INTO CONCRETE OR CMU
10	STEELCRAFT: ANCHORS - EMA W/ LAG BOLT IN WOOD STUD WALL & POURED CONCRETE TILT UP WALL
11	STEELCRAFT: ANCHORS - FRAMES BOLTED TO BUILDING STRUCTURE
12	STEELCRAFT: ANCHORS - FRAMES WELDED TO STEEL STRUCTURE BUILDING
13	STEELCRAFT: FRAME HEAD & SILL ANCHOR DETAILS
14	GASKETING DETAILS - ZERO INT'L THRESHOLDS
15	GASKETING DETAILS - NGP THRESHOLDS
16	HINGES, THRESHOLDS, CHANNELS, & STRIKE REINFORCEMENTS
17	LOUVER OPTIONS
18	LOUVER PANEL OPTIONS
19	LOCKING HARDWARE
20	LOCKING HARDWARE - CONT.
21	LOCKING HARDWARE - CONT.
22	LOCKING HARDWARE - CONT.
23	REPUBLIC DOORS: OPENING DIMENSIONS & BOM
24	REPUBLIC DOORS: SILL & REINFORCEMENT DETAILS
25	REPUBLIC DOORS: CORNER CONSTRUCTION, FRAME & DOOR DETAILS
26	REPUBLIC DOORS: ANCHORS - WIRE OR T MASONRY ANCHOR & WOOD STUD: REPUBLIC OPTIONS
27	REPUBLIC DOORS: ANCHORS - STEEL STUD & EMA INTO CONCRETE OR CMU
28	REPUBLIC DOORS: ANCHORS - EMA W/ LAG BOLT IN WOOD STUD WALL & POURED CONCRETE TILT UP WALL
29	REPUBLIC DOORS: ANCHORS - FRAMES BOLTED TO BUILDING STRUCTURE
30	REPUBLIC DOORS: ANCHORS - FRAMES WELDED TO STEEL STRUCTURE BUILDING
31	REPUBLIC DOORS: FRAME HEAD & SILL DETAILS



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CARMEL, IN 46032
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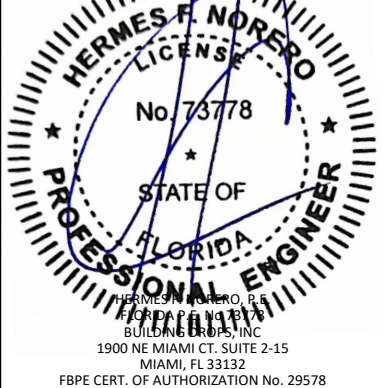
GENERAL NOTES &
DESIGN PRESSURE TABLE

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
HINGE UPDATE	SM	02.26.24
MPP/ANCHOR UPDATE	SH	06.14.24
LOCK UPDATE	JA	09.09.24
MISC UPDATE	DI	12.08.25
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Reason: I am approving this document
Date: 2025.12.11 13:41:16 -0500'



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

FL12400

DATE: 04.11.22

DWG. BY: CPA CHK. BY: HFN

SCALE: NTS

DWG. #: F882W-2D

SHEET: 1 OF 31

TABLE 1: DOOR CONFIGURATIONS AND LOCKING HARDWARE

DOOR CONFIGURATION	MAXIMUM DESIGN PRESSURE, PSF		MAXIMUM DOOR OPENING SIZE, IN		LOCKING HARDWARE DESCRIPTION						COMMENTS
	POSITIVE	NEGATIVE	WIDTH	HEIGHT	HARDWARE ACTIVE LEAF	MODEL/SERIES	STRIKE MODELS	BRAND	HARDWARE INACTIVE LEAF	BRAND	
1	60	60	96	96	MORTISE LOCK WITH DEADBOLT	L/LV9400, AD-MD, CO-MD, PM400	10-072	SCHLAGE	360 SURFACE BOLT	IVES	FUNCTIONS WITH DEADBOLT 3/4" MIN. THROW LATCH & 1" MIN. THROW DEADBOLT
						LE-MD, LEB-MD	10-072	SCHLAGE			
						XE360-M-D	10-072	SCHLAGE			
						MA	ANSI	FALCON			
2	60	60	96	96	MORTISE LOCK WITHOUT DEADBOLT	L/LV9000, AD-MS, CO-MS, PM	10-072	SCHLAGE	360 SURFACE BOLT	IVES	FUNCTIONS WITHOUT DEADBOLT, 3/4" MIN. THROW LATCH
						LE-MS, LEB-MS, LE-MB, LEB-MEB	10-072	SCHLAGE			
						XE360-M-B & XE360-M-I	10-072	SCHLAGE			
						MA	ANSI	FALCON			
3	60	60	96	96	CYLINDRICAL LOCK	ALX, PC	10-025	SCHLAGE	360 SURFACE BOLT	IVES	3/4" MIN. THROW LATCH (14-042)
						D, ND, NDE, NDEB, AD-CY, CO-CY	10-025	SCHLAGE			3/4" MIN. THROW LATCH (14-042)
						T, TM	ANSI	FALCON			3/4" THROW LATCH (23981152)
4	60	60	96	96	RIM EXIT DEVICE	88-F	468	VON DUPRIN	RIM EXIT DEVICE OR 360 SURFACE BOLT	VON DUPRIN	USE VON DUPRIN HARDWARE MULLION
						98/99 & 98/99-F	499F			-	
						HH78, HH78-F	499F			-	
						XP98/99 & XP98/99-F	909/954			IVES	
5	60	60	96	96	SURFACE VERTICAL ROD EXIT DEVICE	98/9927 & 98/9927-F	299F-499F TOP, 304L BOTTOM	VON DUPRIN	SVR EXIT DEVICE OR 360 SURFACE BOLT	VON DUPRIN FALCON IVES	-
						HH7827, HH7827-F	299F-499F TOP, 304L BOTTOM	VON DUPRIN			-
						F-25-V & 25-V	3788 TOP, 2130 BOTTOM	FALCON			-
6	60	60	96	96	CONCEALED VERTICAL ROD EXIT DEVICE	98/9947-F & HH98/9947	338 TOP, 2130 BOTTOM	VON DUPRIN	CVR EXIT DEVICE OR 360 SURFACE BOLT	VON DUPRIN FALCON IVES	HH98/9947 DEVICE HAS A 2-3/4" BACKSET
						HH7847, HH7847-F	338 TOP, 2130 BOTTOM	VON DUPRIN			HH7847 DEVICE HAS A 2-3/4" BACKSET
						33/3547A-F & HH33/3547A	338 TOP, 2130 BOTTOM	VON DUPRIN			HH33/3547A DEVICE HAS A 2-3/4" BACKSET
						HH7547, HH7547-F	338 TOP, 2130 BOTTOM	VON DUPRIN			HH7547 DEVICE HAS A 2-3/4" BACKSET
						F-25-C	4188 TOP, 2130 BOTTOM	FALCON			-
7	60	60	96	96	THREE-POINT LATCHING DEVICE	98/9957 & 98/9957-F	299F/499F TOP, 499F MIDDLE, 304L BOTTOM	VON DUPRIN	3 PONT EXIT DEVICE OR 360 SURFACE BOLT	VON DUPRIN	USE VON DUPRIN HARDWARE MULLION



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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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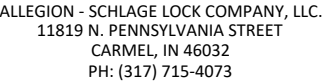
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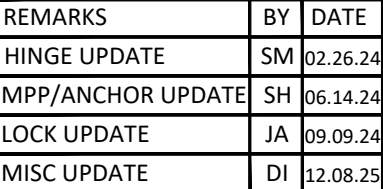
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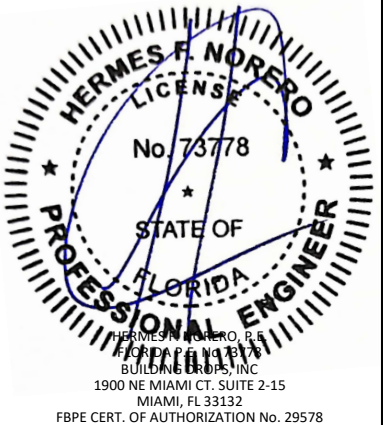


STEELCRAFT: OPENING DIMENSIONS & BOM

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ALL DIMENSIONS TYPICAL, UNLESS SPECIFIED OTHERWISE

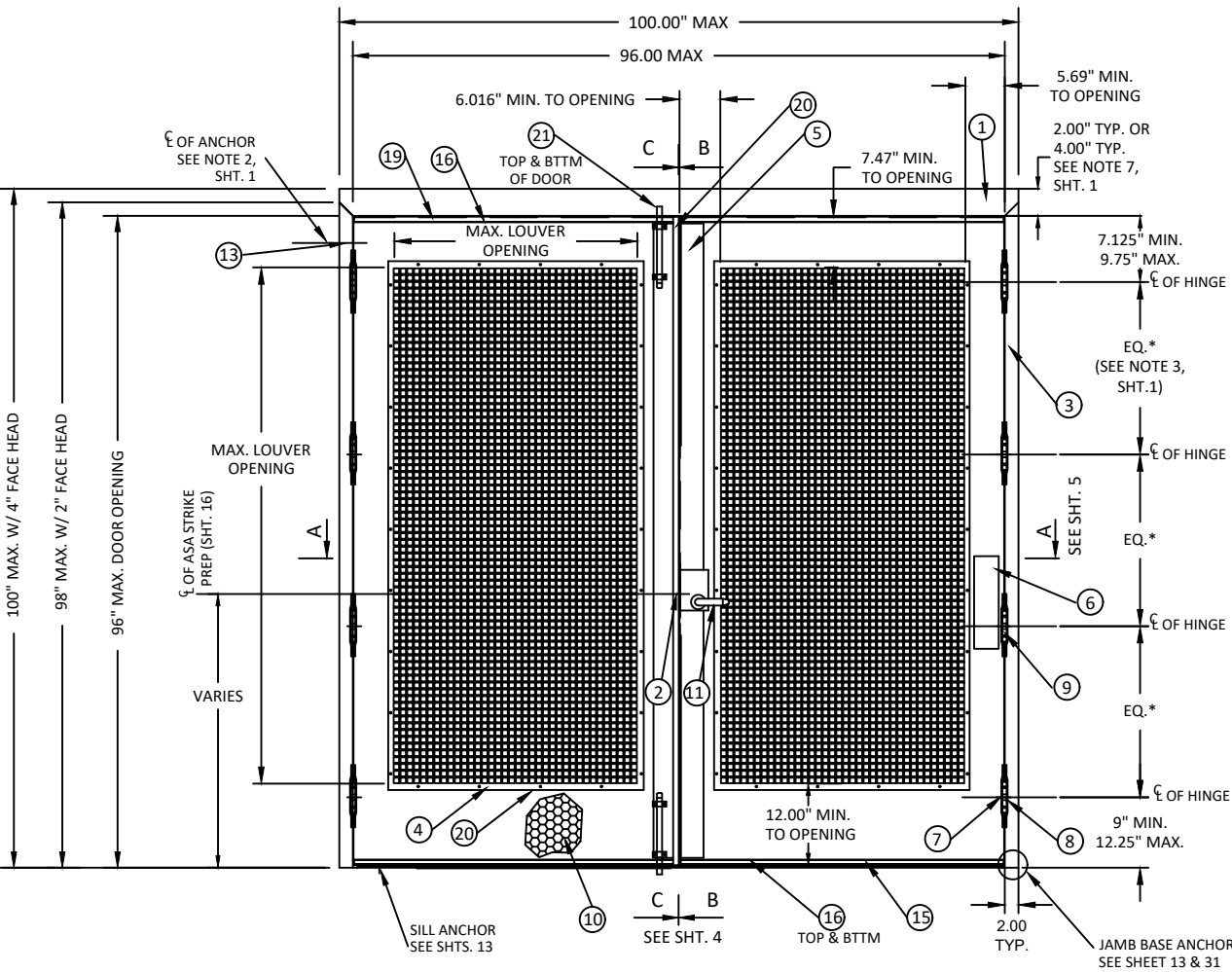


TABLE 2: (FOR OPTION 2 CONFIGURATION SEE TABLE 7 SHT. 23)

ITEM	QUANTITY	DESCRIPTION	MATERIAL	SIZE	
1	1	HEAD	.053" MIN. STL	MAX. 100"	SEE ELEVATION ON SHT. 3
2	1	2A) VON DUPRIN HH9954 HARDWARE MULLION	.312" A500 STL	MAX. 96" HEIGHT	
		2B) VON DUPRIN 9964 OR KR9964 HARDWARE MULLION	.118" A500 STL		
3	2	HINGE JAMB	.053" MIN. STL	MAX. 100" HEIGHT	
4	2	FIXED DOOR LOUVER:	-	-	
		NGP/ANEMOSTAT PLSL	SEE SHT. 17	SEE SHT. 17	
		AIR LOUVERS, INC. - 1500-A			
		NATIONAL GUARD PRODUCTS - L-VRSQ-2			
NGP/ANEMOSTAT FDL-SG1 OR FDL-SG2					
5	2	LOCK SIDE REINFORCEMENT CHANNEL	.093" MIN. STL	3.5" X 93.44" MAX.	
6	AS NEEDED	HINGE SIDE PANIC REINFORCEMENT	.067" MIN. STL	MAX. 20"	
7	NOTE 3, SHT. 1	HINGE REINFORCEMENT DOOR	.167" MIN. STL	1.23" X 9.19" MIN.	
8	NOTE 3, SHT. 1	HINGE REINFORCEMENT FRAME	.167" MIN. STL	1.5" X 9.19" MIN.	
9	NOTE 3, SHT. 1	4.5" MIN. BUTT HINGES (SEE SHT. 16)	.134 MIN.	(8) #12-24 MS PER HINGE	
		OPTIONAL CONTINUOUS HINGE (SEE SHEET 16)	.075" MIN. STL / .110 ALUM.	MAX. 95"	
10	2	CORE MATERIAL:			
		D) HONEYCOMB C) STEEL STIFFENED	SEE SHT. 6		
		A&F) POLYSTYRENE B&F) POLYURETHANE/POLYISOCYANURATE			
		E) MINERAL BOARD TEMPERATURE RISE CORE			
11	2	LOCKING HARDWARE	SEE SHEET 2, TABLE 1		
12	1	THRESHOLD SILL W/BUMPER GASKET		5.0" X 0.5" X 96" MAX	
		12A) 566 BY ZERO SEE SHT. 14	.125" ALUM. 6063 T5		
		12B) 950A BY NGP SEE SHT. 15	.078" ALUM. 6063 T5		
		12C) 65 BY ZERO SEE SHT. 14	0.125" ALUM. 6063 T5		
		12D) 568 BY ZERO SEE SHT. 14	0.125" ALUM. 6063 T5	6.0" X 0.5" X 96" MAX.	
13	NOTE 2, SHT. 1	JAMB ANCHOR	SEE SHTS. 8-12 & 26-30	-	
14	SEE SHT. 14 & 15	14A) PS074 DOOR SEAL	TPE	VARIES	
		14B) 188S, 14C) 117S, 14D)8144S, 14E)8150S, DOOR SEAL ZERO	VARIES	-	
15	2	FAS-SEAL DOOR SWEEP. SEE SHT. 14 & 15	TPE	MAX. 48"	
16	4	END CHANNEL (14 GAGE - INVERTED)	.067" MIN. STL	.69" X 1.66" X 48" MAX.	
17	1	17A) 328 SPLIT ASTRAGAL BY ZERO INT'L	SEE SHT. 14	-	
		17B) 137 SPLIT ASTRAGAL BY NGP	SEE SHT. 15		
18	AS NEEDED	CAULK - BUTYL RUBBER OR SILICONE	SEE SHTS. 14 & 15	-	
19	2	19A) TOP CAP. GALV. (OPTIONAL)	.020" MIN. STL	.05" X 1.76" X 48" MAX	
		19B) 18 GA DOOR FLUSH TOP CAP	.047" MIN. STL		
20	1	Z-ASTRAGAL REQUIRED FOR CONFIGS. 1, 2, & 3	.067" MIN. STL	MAX. 95.5"	
21	2	IVES SB360 SURFACE BOLT - TOP & BOTTOM INACTIVE LEAF CONFIG 1,2, & 3	STEEL	12" MIN. - 24" MAX	
22	1	ASA STRIKE	-	-	
23	AS NEEDED	18 GAUGE LOUVER CUTOUT REINFORCEMENT	SEE SHEET 16	-	
24	AS NEEDED	12 GAUGE MID RAIL REINFORCING CHANNEL	SEE SHEET 16	-	
25	2	DOOR SLAB	SEE SHT. 6	-	
26	1	HOLLOW METAL MULLION	-	84" or 96" MAX.	



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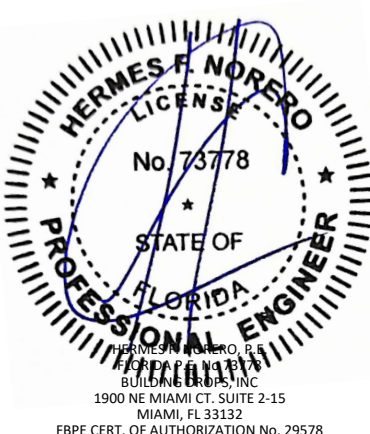
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STEEL DOOR SYSTEMS W/ LOUVERS
(HVHZ)(IMPACT)
DOOR & FRAME VERTICAL
SECTION VIEWS

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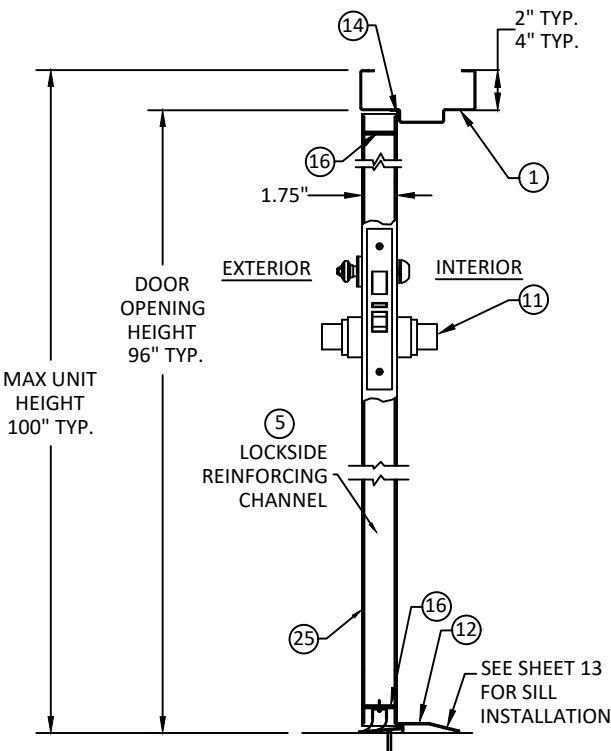
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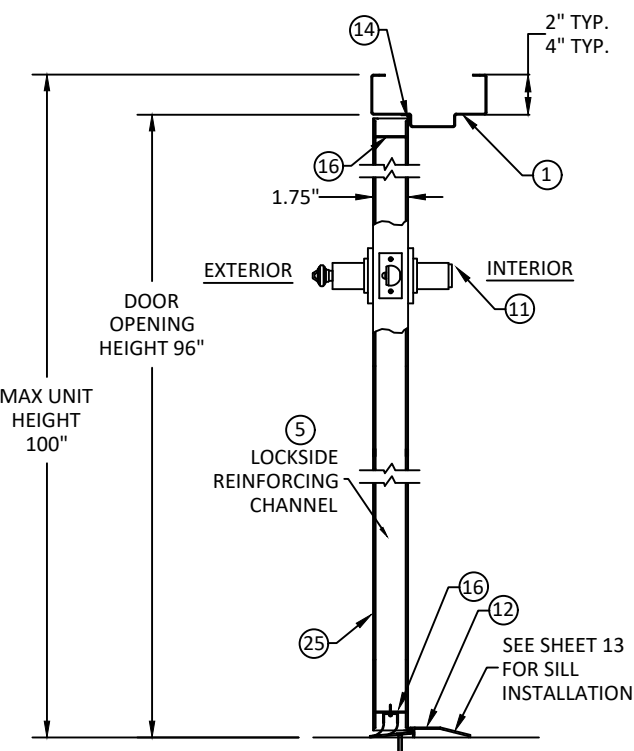
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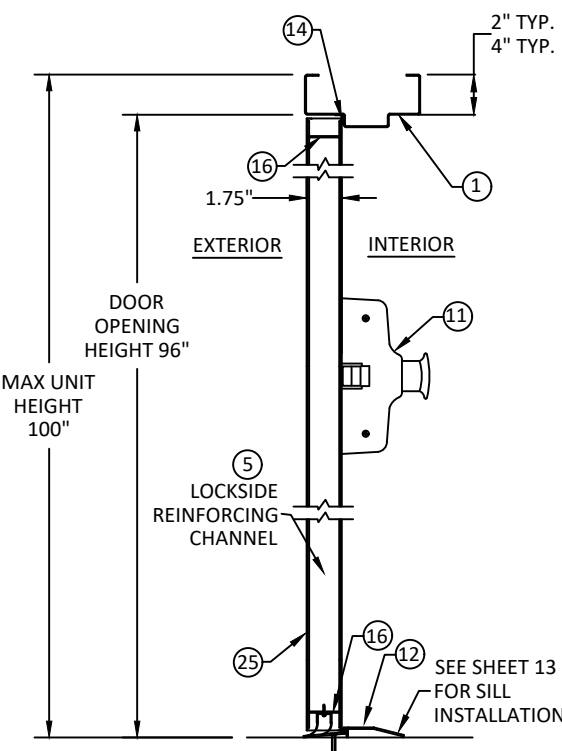
OF 31



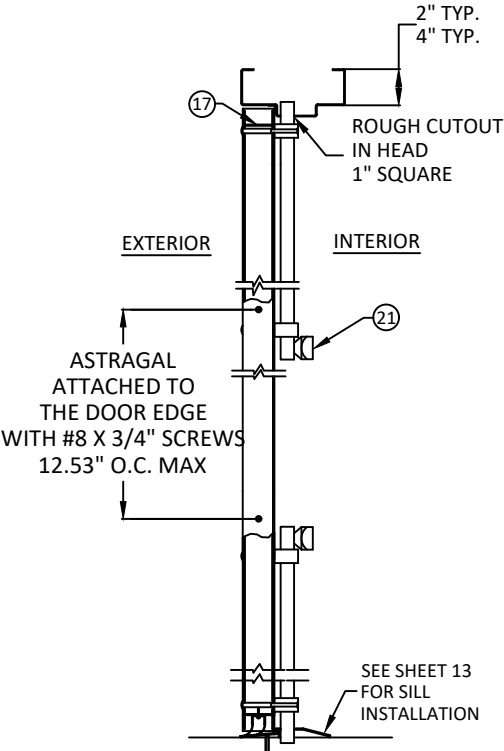
MORTISE LOCK
SECTION B-B
(SEE SHT. 3)



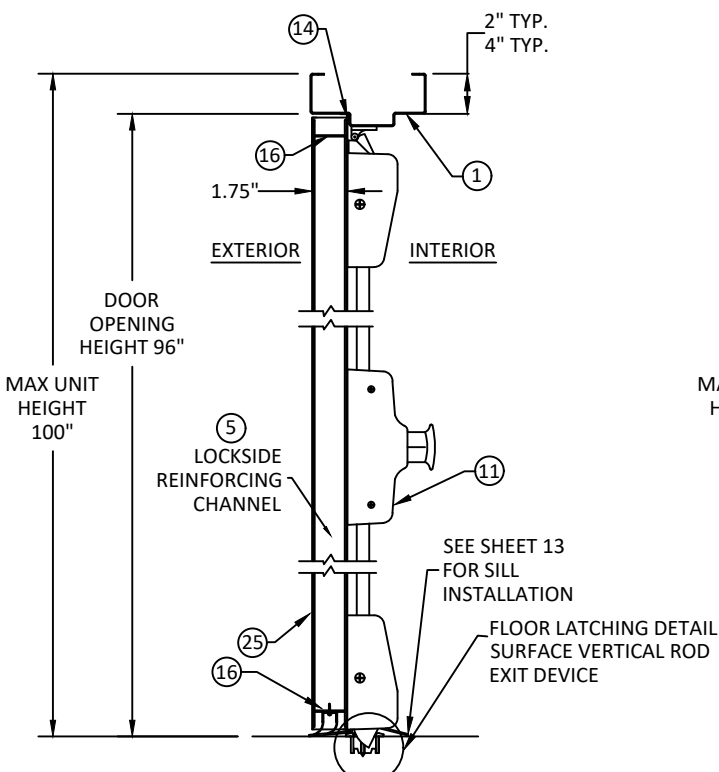
CYLINDRICAL LOCK
SECTIONS B-B (SEE SHT. 3)



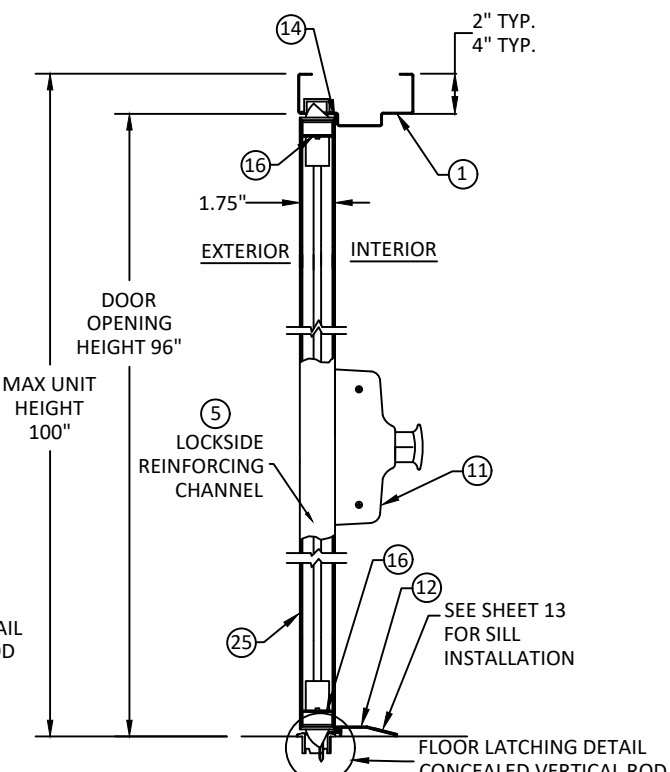
RIM EXIT DEVICE
SECTIONS B-B (SEE SHT. 3)



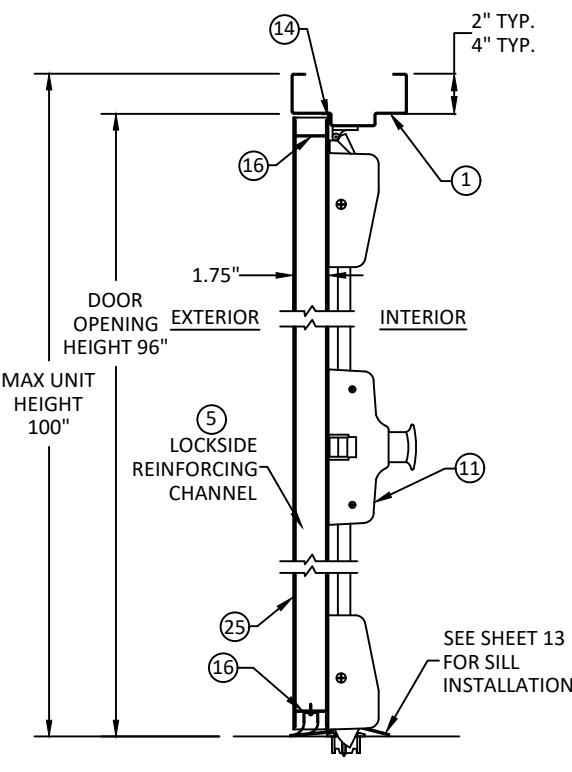
INACTIVE LEAF WITH IVES 360
SURFACE BOLTS
IN TOP AND BOTTOM
SECTIONS C-C (SEE SHT. 3)



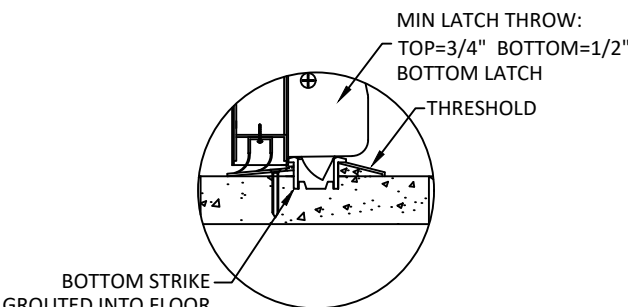
SURFACE VERTICAL ROD EXIT DEVICE
SECTION B-B (SEE SHT. 3)



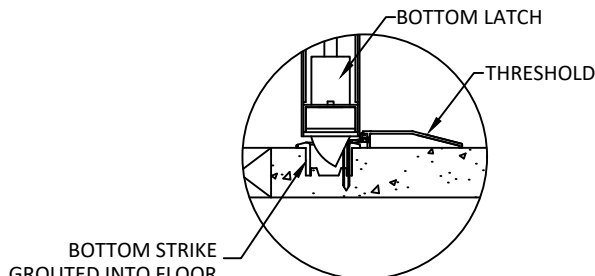
CONCEALED VERTICAL
ROD EXIT DEVICE
SECTION B-B (SEE SHT. 3)



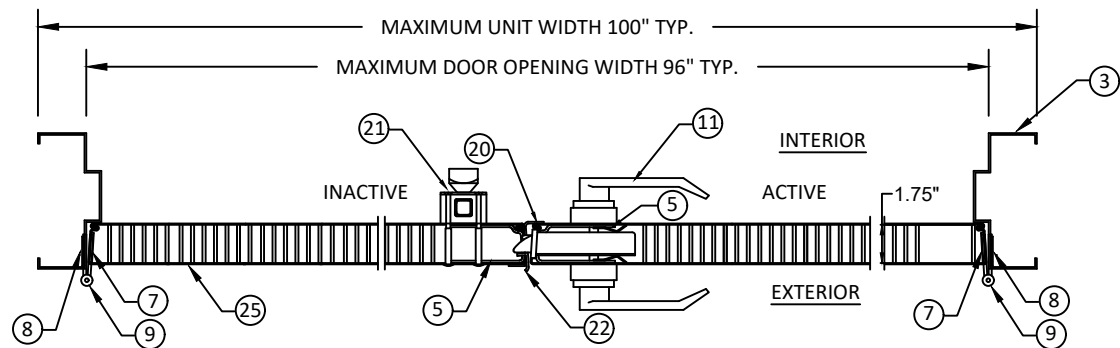
THREE-POINT LATCHING EXIT DEVICE.
SECTIONS B-B (SEE SHT. 3)



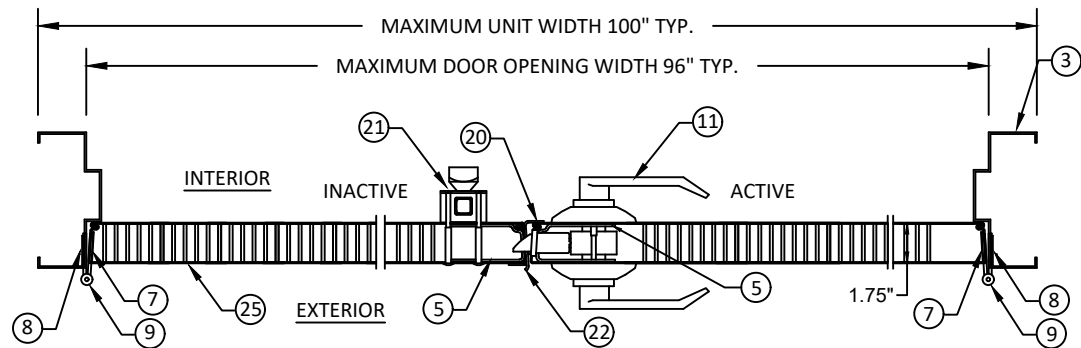
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SURFACE VERTICAL ROD
EXIT DEVICE



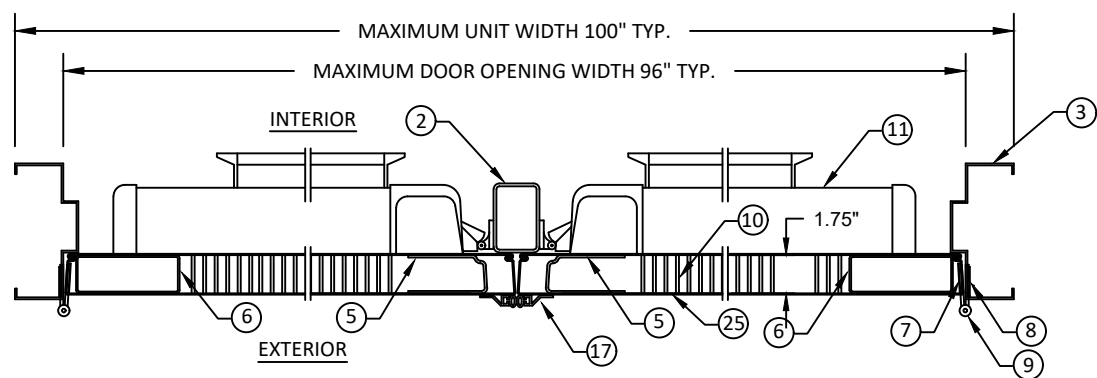
FLOOR LATCHING DETAIL
CONCEALED VERTICAL ROD
EXIT DEVICE



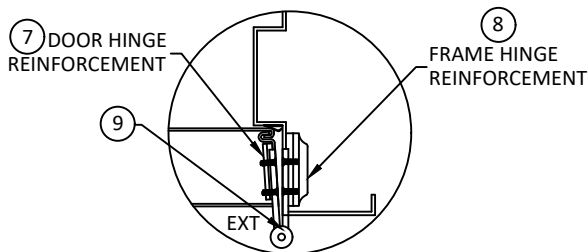
MORTISE LOCKSET
SECTION A-A
(SEE SHT. 3)



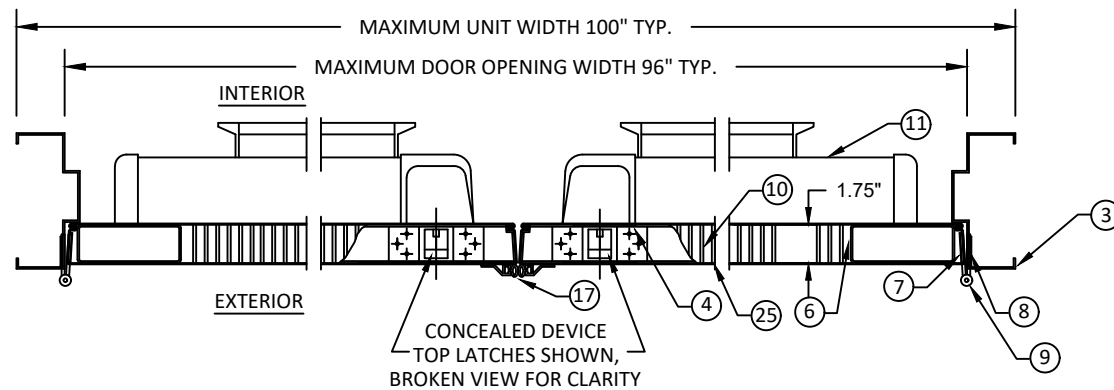
CYLINDRICAL LOCKSET
SECTION A-A
(SEE SHT. 3)



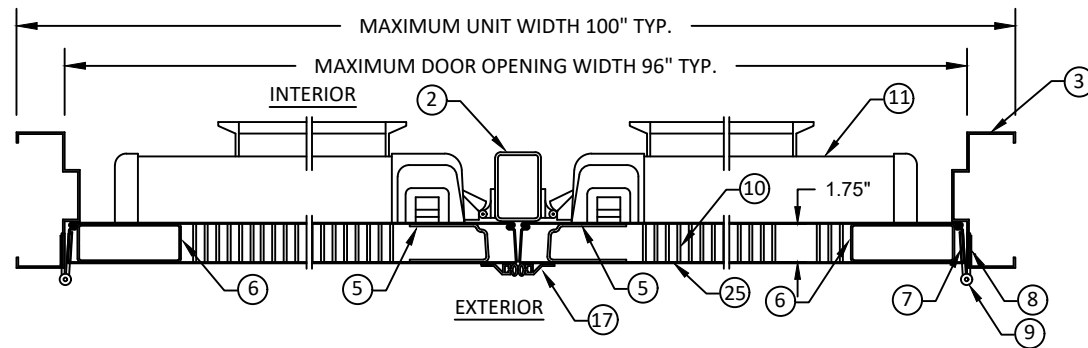
RIM PANIC DEVICE
VON DUPRIN HARDWARE MULLION. SECTION A-A
(SEE SHT. 3)



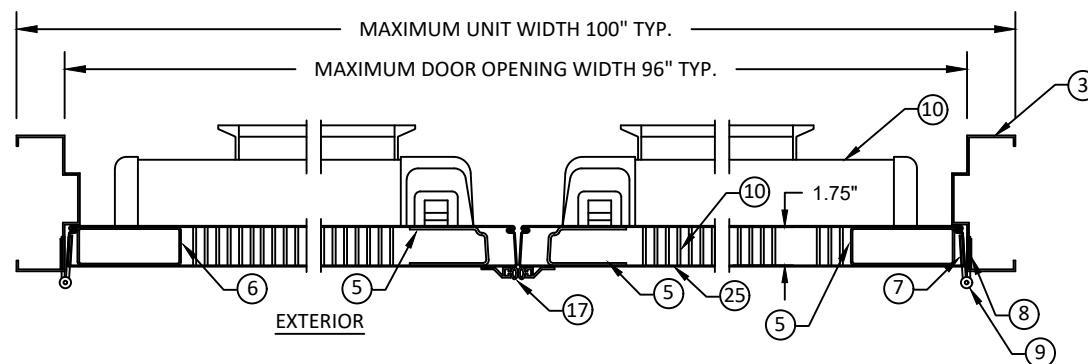
HINGE DETAIL 'L'
SEE HINGE
OPTIONS SHEET 16



CONCEALED VERTICAL ROD DEVICE
SECTION A-A (SEE SHT. 3)



3-POINT LATCHING DEVICE
HARDWARE MULLION. SECTION A-A (SEE SHT. 3)



SURFACE VERTICAL ROD DEVICE
SECTION A-A
(SEE SHT. 3)



ALLEGION - SCHLAGE LOCK COMPANY, LLC.
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032
PH: (317) 715-4073

TITLE: DOUBLE OUTSWING COMMERCIAL
STEEL DOOR SYSTEMS W/ LOUVERS
(HVHZ)(IMPACT)
DOOR & FRAME HORIZONTAL
SECTION VIEWS

PREPARED BY:

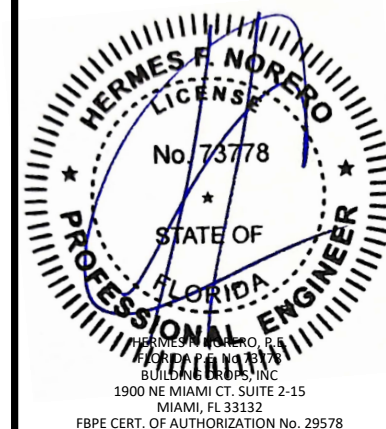
BUILDING DROPS, INC.

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
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MISC UPDATE	DI	12.08.25

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HFN

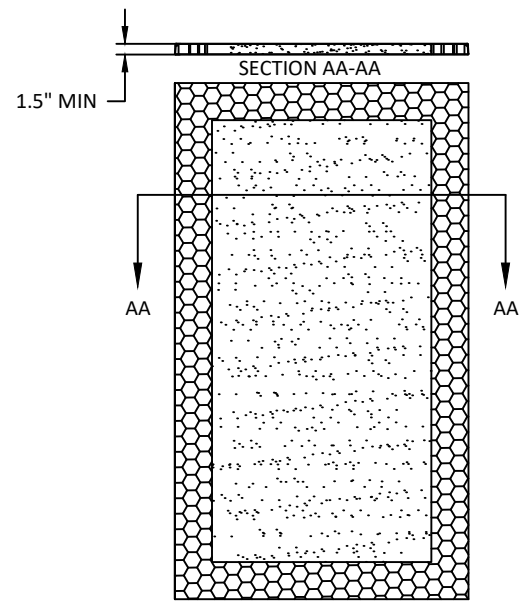
SCALE: NTS

DWG. #: F882W-2D

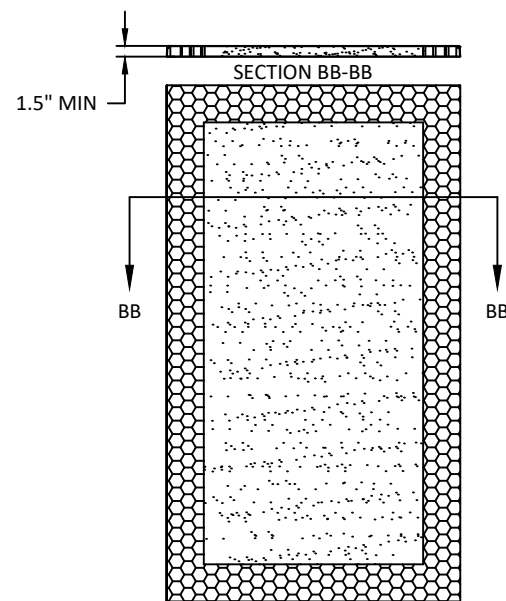
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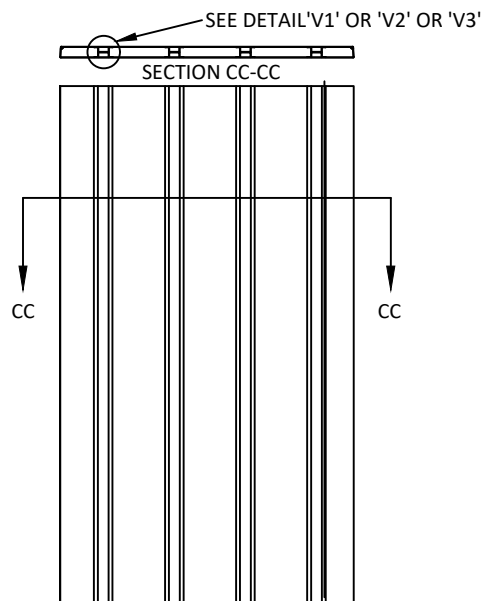
OF 31



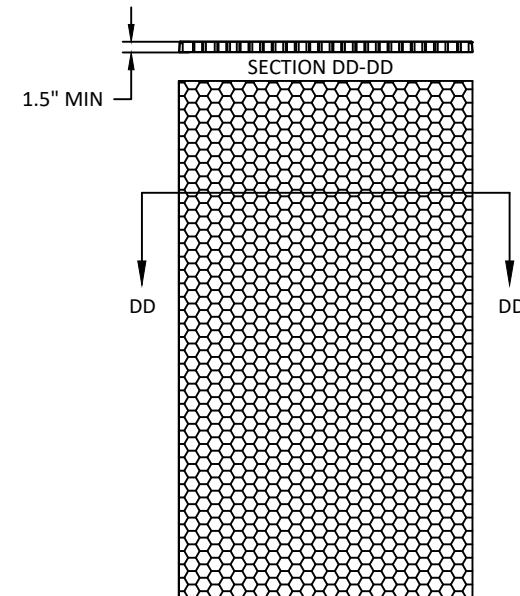
(A) EXPANDED POLYSTYRENE FOAM
DENSITY: 1.0 LBS/FT³



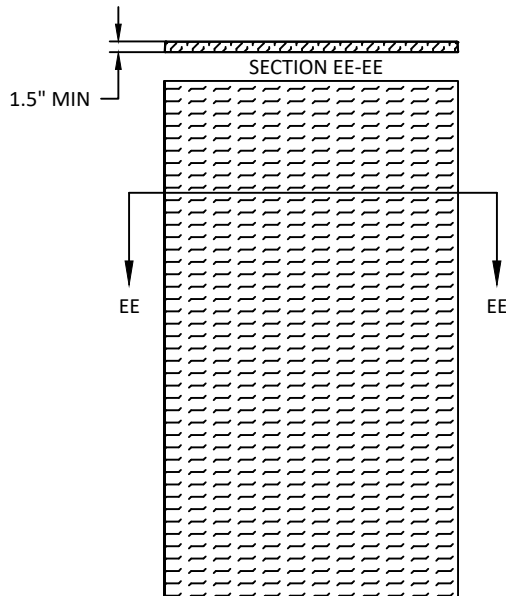
(B) POLYISOCYANURATE
(POLYURETHANE)
DENSITY: 2 LBS/FT³



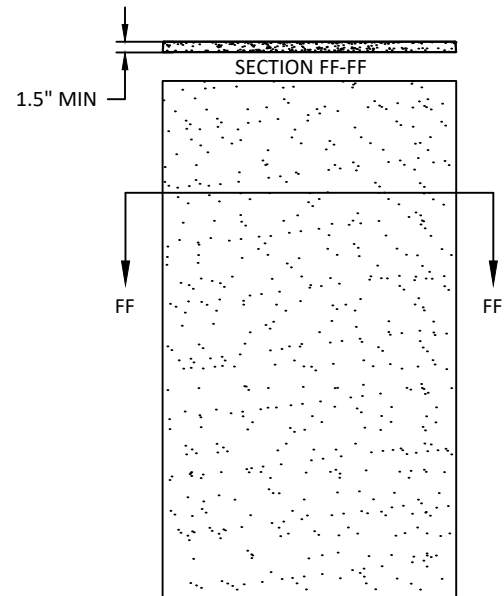
(C) STEEL STIFFENED
HAT SHAPED SECTIONS



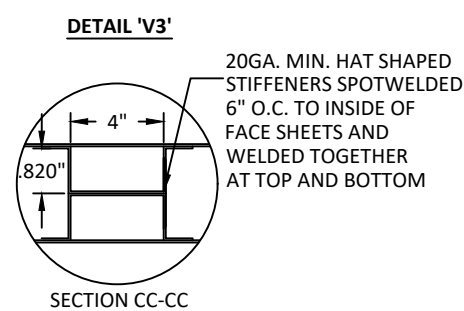
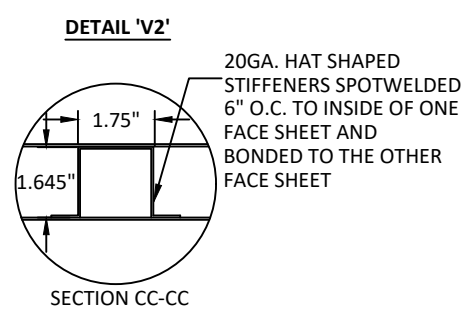
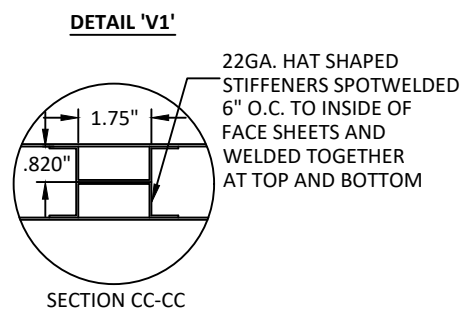
(D) HONEYCOMB
KRAFT PAPER.



(E) TEMPERATURE RISE CORE
MINERAL FIBER BOARD
DENSITY: 17±1.5 LBS/FT³
OR
PSL-P250C-60
OR
CALCIUM SILICATE MINERAL CORE



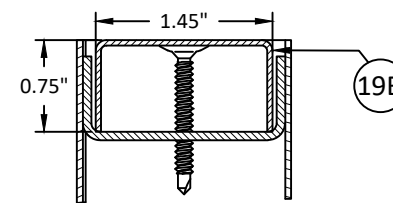
(F) EXPANDED POLYSTYRENE FOAM
DENSITY: 1.0 LB/FT³ OR
POLYISOCYANURATE (POLYURETHANE)
DENSITY: 2 LBS/FT³



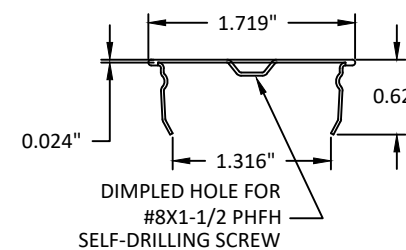
- NOTE:
1. CORE MATERIAL SHOWN WITHOUT HARDWARE REINFORCEMENTS
 2. STIFFENER QUANTITY VARIES PER DOOR WIDTH

TABLE 3: AVAILABLE STEELCRAFT H SERIES DOOR CONFIGURATIONS

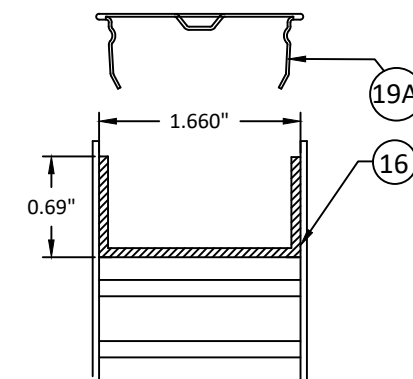
CORE MATERIAL	MAXIMUM OPENING SIZE		SKIN MATERIAL	
	WIDTH	HEIGHT	DESCR.	GA./MIN. THK
HONEYCOMB POLYSTYRENE POLYURETHANE (POLYISOCYANURATE) STEEL STIFFENED	8'0"	8'0"	CRS GALV	16/.053" 14/.067"



19B STEELCRAFT: 18 GA
FLUSH TOP CAP
(OPTIONAL)



19A STEELCRAFT: 24 GA TOP CAP
(OPTIONAL)



16 STEELCRAFT: TOP & BOTTOM CHANNEL
L=FULL DOOR WIDTH
14 GAGE



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TITLE: DOUBLE OUTSWING COMMERCIAL
STEEL DOOR SYSTEMS W/ LOUVERS
(HVHZ)(IMPACT)

DOOR PANEL & CORE DETAILS

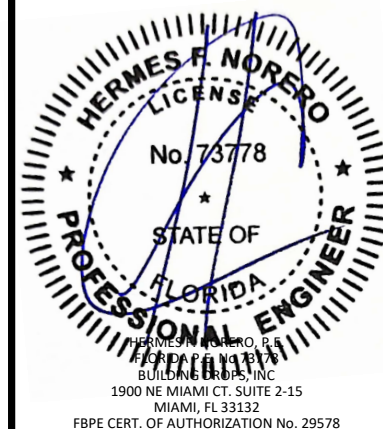
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SCALE: NTS

DWG. #: F882W-2D

SHEET:

6

OF 31

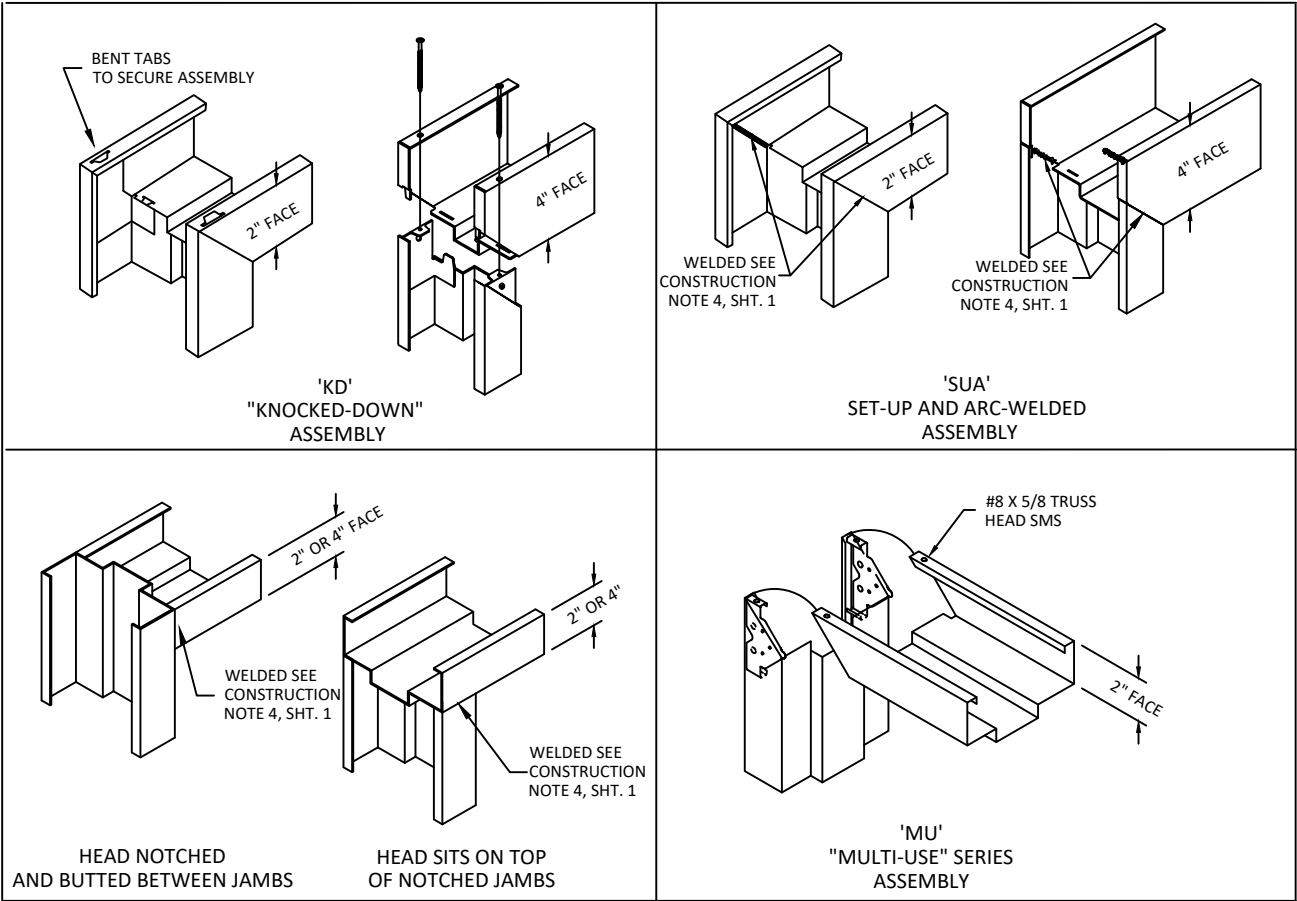
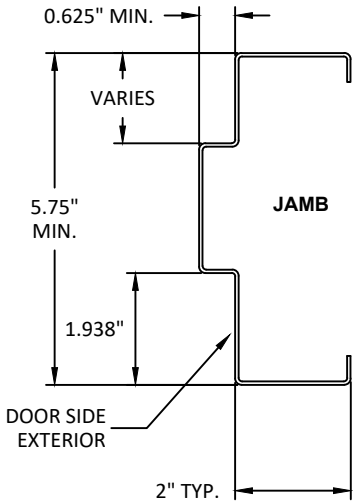
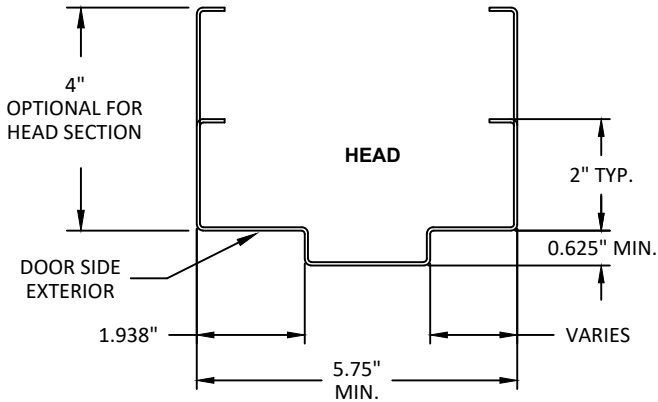


TABLE 4: AVAILABLE STEELCRAFT FRAME CONFIGURATIONS (SEE CONSTRUCTION NOTE 2, SHT. 1)

STEELCRAFT FRAME SERIES	JAMB DEPTH	MAXIMUM OPENING SIZE		MATERIAL	
		WIDTH	HEIGHT	DESCR.	GA./MIN. THK
F	5.75" MIN.	8'0"	8'0"	CRS/HRS GALV	16/.053" 14/.067" 12/.099"
MU	5.75" MIN.	8'0"	8'0"	CRS/HRS GALV	16/.053" 14/.067"

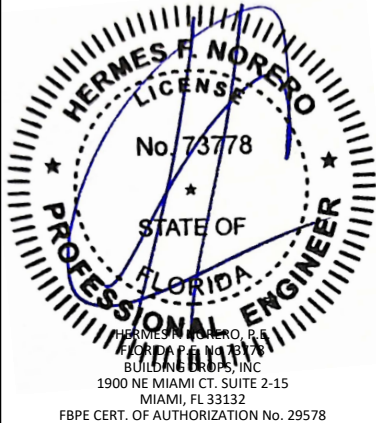
TABLE 5: STEEL MECHANICAL PROPERTIES

MATERIAL	ASTM REF.	YIELD (KSI)	TENSILE (KSI)
CRS	A1008	MIN. 46.0	MIN. 52.0
HRS	A1011		
GALV.	A924/A653		



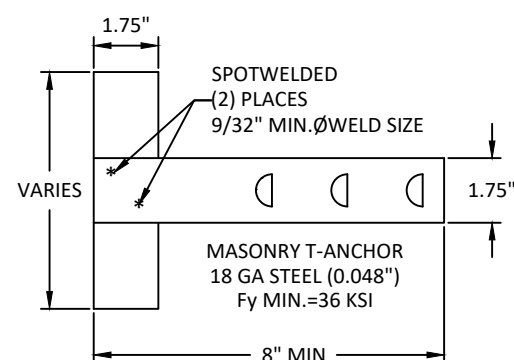
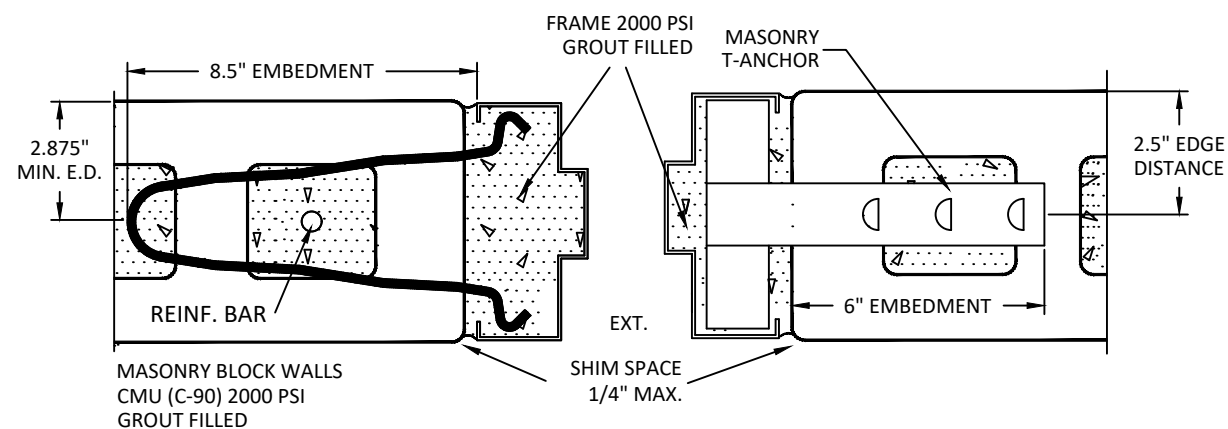
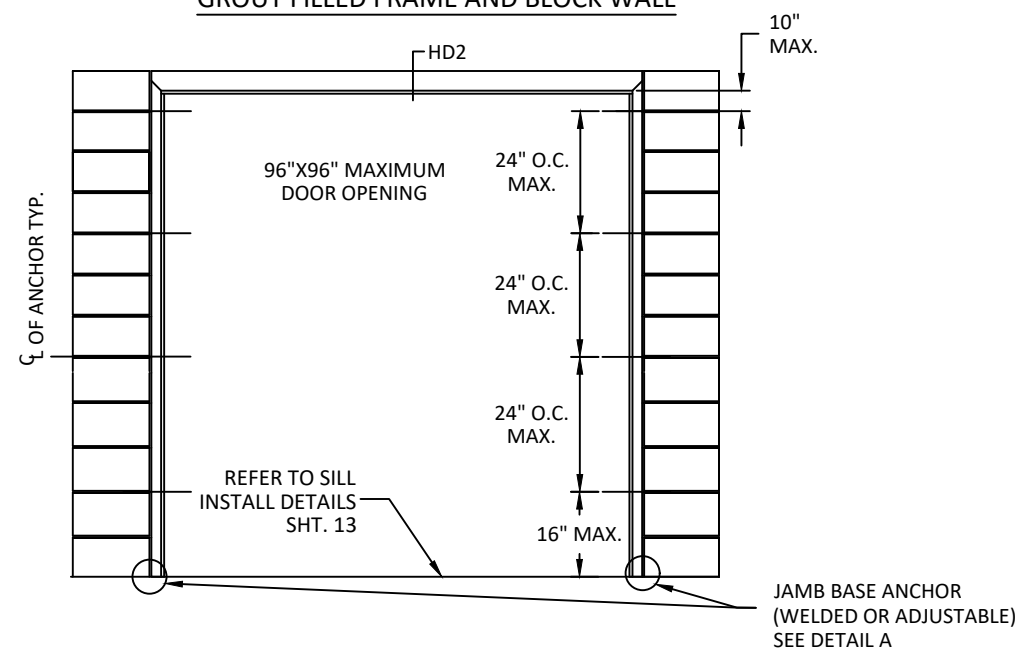
REMARKS	BY	DATE
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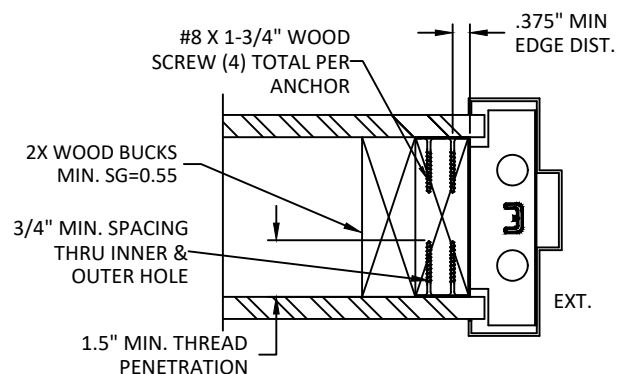
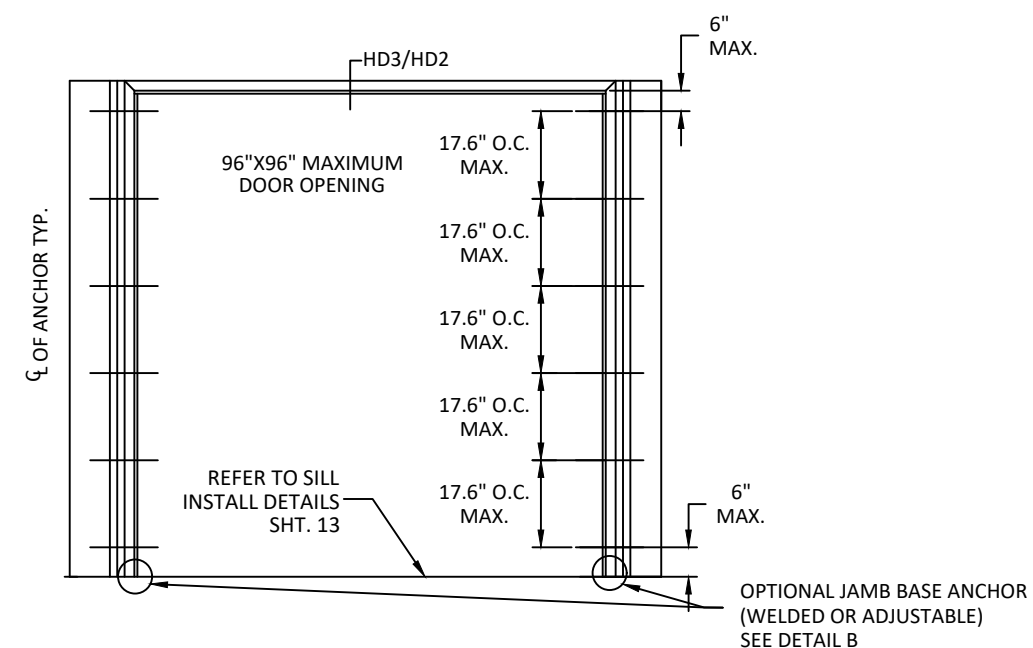
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DATE:	04.11.22
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CHK. BY:	HFN
SCALE:	NTS
DWG. #:	F882W-2D
SHEET:	

WIRE OR T MASONRY ANCHOR INTO
GROUT FILLED FRAME AND BLOCK WALL

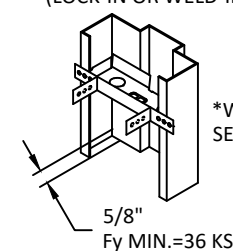


WOOD STUD ANCHOR

SEE SHEET 26 FOR
OPTION 2 ANCHOR DETAILS



WOOD STUD OR UNIVERSAL ANCHOR
(LOCK-IN OR WELD-IN)

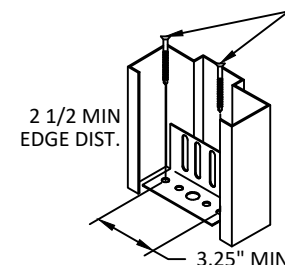


*WOOD STUD WALLS
SEE NOTE 11, SHT. 1

NOTES:

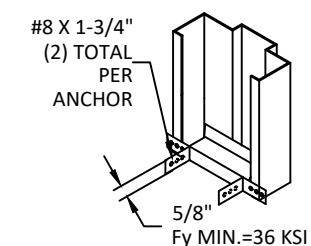
1. (*)WOOD OR (*)STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY AT LEAST 250 #/FT. LOAD FOR ASSEMBLIES. RATED @60 PSF WHICH SHOULD BE VERIFIED BY THE APPROPRIATE OFFICIAL.
2. NUMBER OF ANCHORS FOR VARIOUS OPENING HEIGHTS IS LIMITED BY MAXIMUM DISTANCE BETWEEN ANCHORS, SHOWN ON THIS SHEET.
3. SEAL ALL JOINTS WHERE FRAME MEETS WALL WITH BUTYL RUBBER OR SILICONE CAULK.
4. INSTALL THRESHOLD INTO BEAD OF BUTYL RUBBER OR SILICONE CAULK FULL LENGTH OF SILL.
5. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS. IF INSTALLATION DEVIATES FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE DOCUMENTS FOR REVIEW AND APPROVAL BY THE LOCAL AHJ.

DETAIL A
JAMB BASE ANCHOR
(INTO CONCRETE)



JAMB BASE ANCHOR INTO
CONCRETE (3 KSI MIN.)
Ø0.375" WITH 2"
MIN. EMBEDMENT
DEWALT/POWERS POWER
BOLT, DEWALT/POWERS
LOK BOLT AS.
HILTI HLC-FPH SLEEVE
ANCHOR, SIMPSON
STRONG TIE SLEEVE-ALL OR
3/8" LAG BOLT INTO (2) 2X
WOOD SILL (SG=0.55)

DETAIL B
JAMB BASE ANCHOR
(WELDED OR ADJUSTABLE)



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STEEL DOOR SYSTEMS W/ LOUVERS
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STEELCRAFT: ANCHORS - WIRE OR
- MASONRY ANCHOR & WOOD STUD

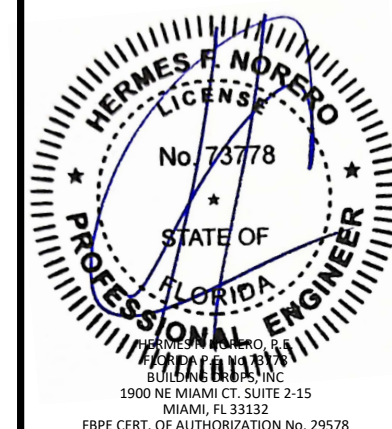
PREPARED BY:

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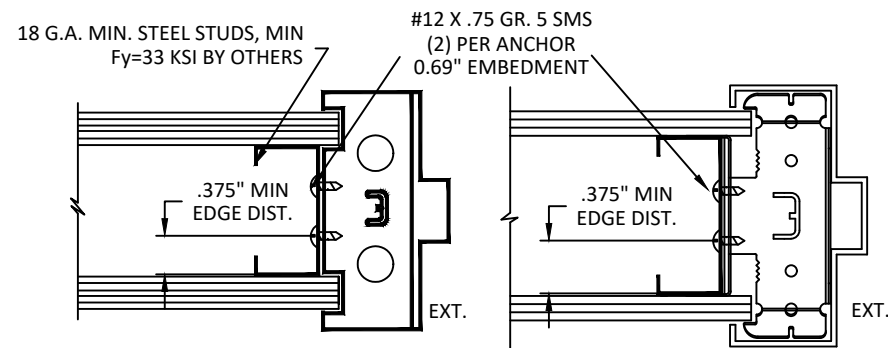
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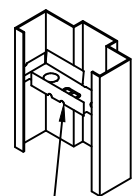
OF 31

Technical drawing of a door frame assembly. The drawing shows a rectangular door frame with a central door opening. Key dimensions and components are labeled:

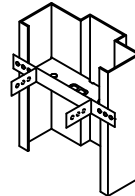
- 96" X 96" MAXIMUM DOOR OPENING**: The central rectangular area.
- HD3/HD2**: Label for the top header track.
- 8" MAX.**: Dimension for the top track height.
- 21" O.C. MAX.**: Four vertical dimensions indicating the maximum spacing between the vertical track rails.
- 6" MAX.**: Dimension for the bottom track height.
- OPTIONAL JAMB BASE ANCHOR (WELDED OR ADJUSTABLE) SEE DETAIL A**: Label for the circular anchors at the bottom corners.
- REFER TO SILL INSTALL DETAILS SHT. 13**: Callout pointing to the bottom rail assembly.
- OF ANCHOR TYP.**: Label for the vertical dimension of the anchor.



UNIVERSAL ANCHOR
WELD-IN OR LOCK-IN

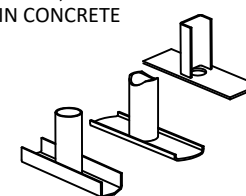
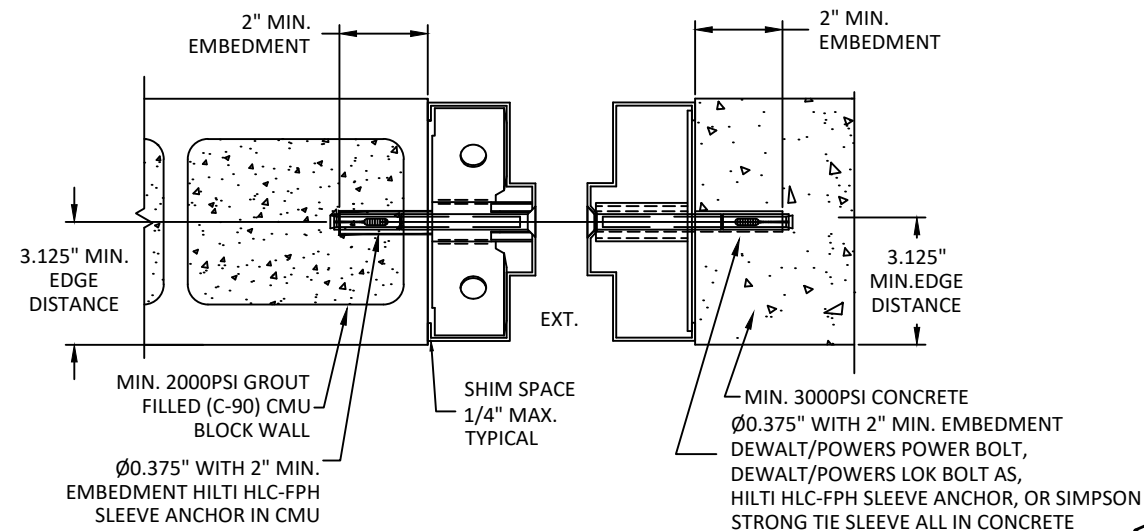
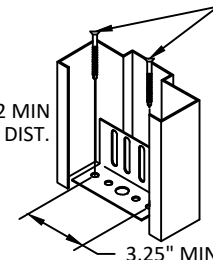


— F_y MIN.=36 KSI



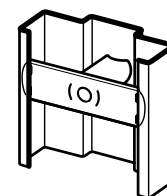
2 1/2 MIN
EDGE DIST.

JAMB BASE ANCHOR INTO
CONCRETE (3 KSI MIN.)
Ø.375" WITH 2"
MIN. EMBEDMENT
DEWALT/POWERS POWER
BOLT, DEWALT/POWERS
LOK BOLT AS.
HILTI HLC-FPH SLEEVE
ANCHOR, SIMPSON
STRONG TIE SLEEVE-ALL OR
3/8" LAG BOLT INTO (2) 2X
WOOD SILL (SG=0.55)

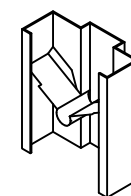
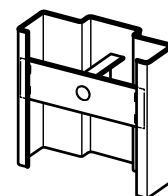


EMA-U ANCHOR

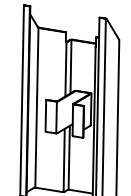
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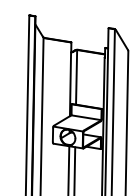
TUBE/CHANNEL &
PLATE BOLT-IN



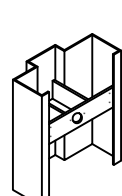
LOCK-IN



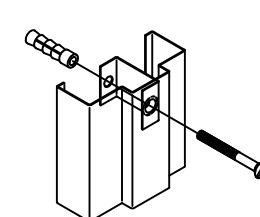
EMA-U ANCHOR



WELD-IN



WELD-IN



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**TITLE: DOUBLE OUTSWING COMMERCIAL
STEEL DOOR SYSTEMS W/ LOUVERS
(HVHZ)(IMPACT)**

STEELCRAFT: ANCHORS - STEEL STUD & EMA INTO CONCRETE OR CMU

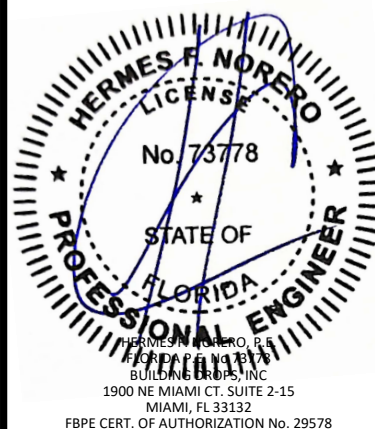
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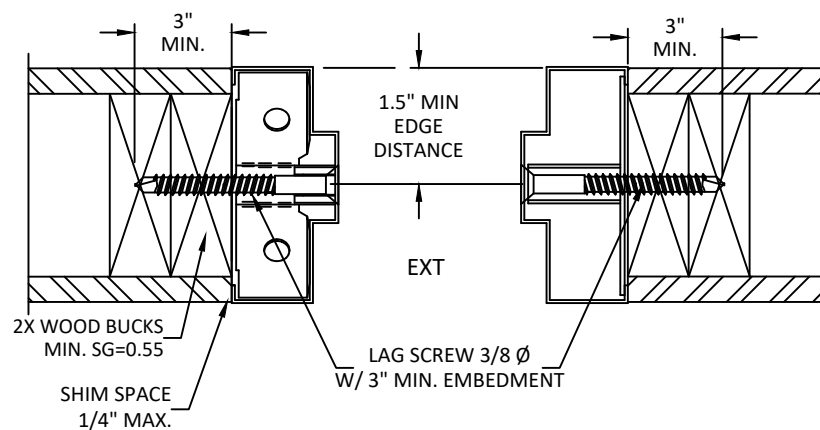
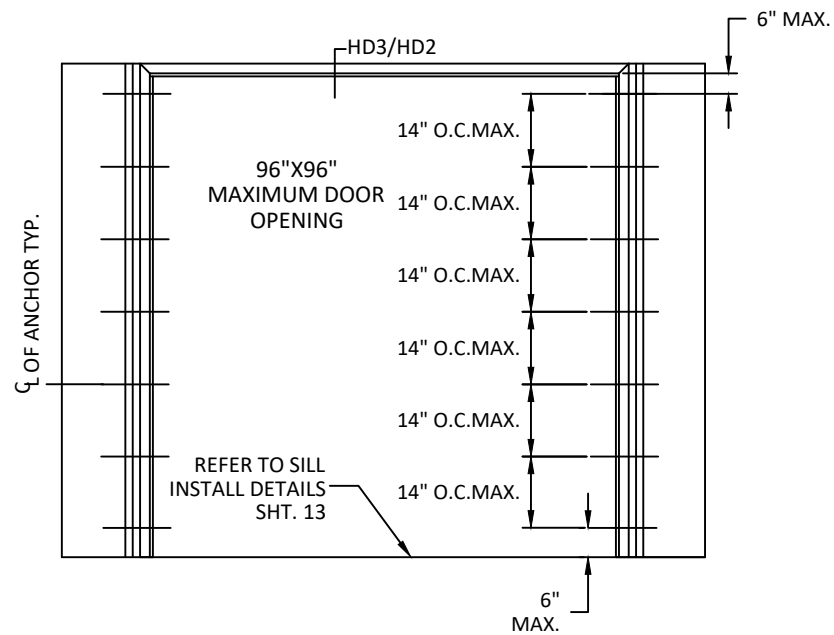
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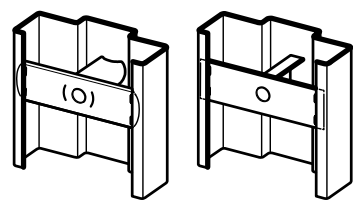
9

OF 31

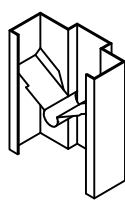
E EXISTING MASONRY ANCHOR (EMA)
WITH LAG BOLT INTO WOOD STUD WALL



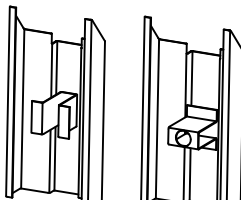
*WOOD STUD WALLS
SEE NOTE 11, SHT. 1



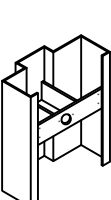
TUBE/CHANNEL &
PLATE BOLT-IN



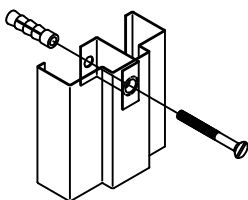
LOCK-IN



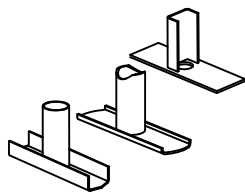
EMA-U ANCHOR



WELD-IN



EMA-U ANCHOR

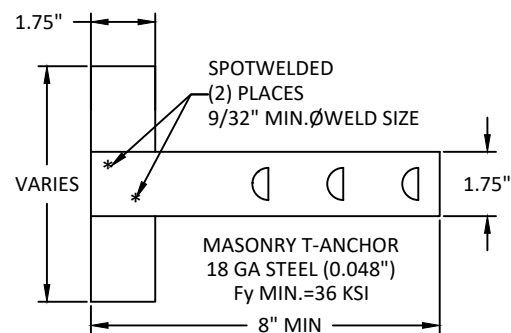
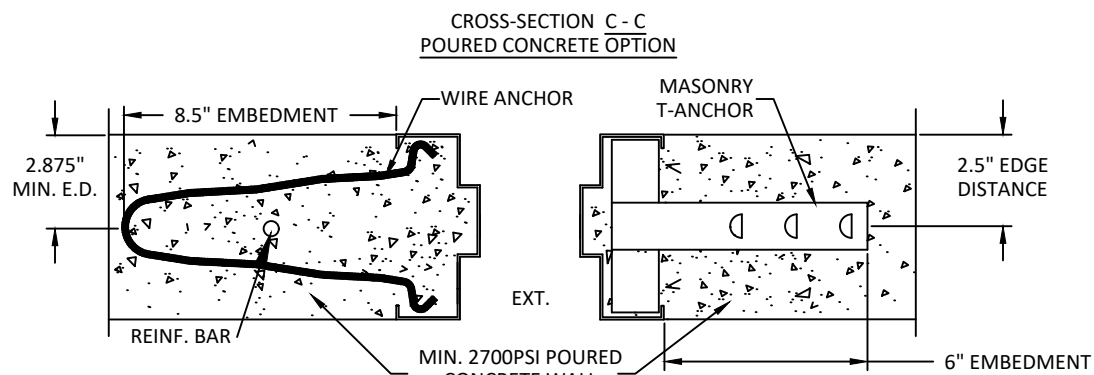
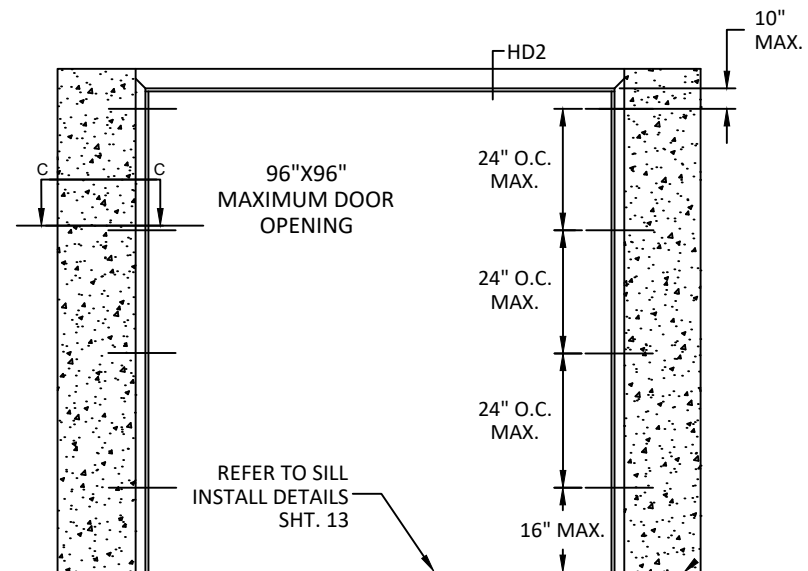


TUBE & PLATE
WELD-IN EMA
ANCHOR

NOTES:
1.(*)WOOD OR (*)STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY AT LEAST 250 #/FT. LOAD FOR ASSEMBLIES RATED @60 PSF WHICH SHOULD BE VERIFIED BY THE APPROPRIATE OFFICIAL.
2.NUMBER OF ANCHORS FOR VARIOUS OPENING HEIGHTS IS LIMITED BY MAXIMUM DISTANCE BETWEEN ANCHORS, SHOWN ON THIS SHEET.
3.SEAL ALL JOINTS WHERE FRAME MEETS WALL WITH BUTYL RUBBER OR SILICONE CAULK.
4.INSTALL THRESHOLD INTO BEAD OF BUTYL RUBBER OR SILICONE CAULK FULL LENGTH OF SILL.
5.THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS. IF INSTALLATION DEVIATES FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE DOCUMENTS FOR REVIEW AND APPROVAL BY THE LOCAL AHJ.

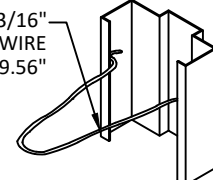
NOTE:
1. 3/8" LAG SCREWS TO BE MIN. SAE GRADE 2 OR EQUIVALENT.

F POURED CONCRETE
TILT UP WALL

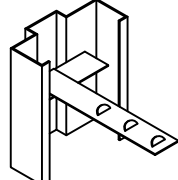


WIRE MASONRY ANCHOR
Fultim MIN.=58 KSI
Fy MIN.=36 KSI

WIRE ANCHOR Ø3/16"
BRIGHT BASIC WIRE
5.19" X 9.56"



MASONRY
T-ANCHOR



SEE SHEET 28 FOR
OPTION 2 ANCHOR DETAILS



ALLEGION - SCHLAGE LOCK COMPANY, LLC.
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032
PH: (317) 715-4073

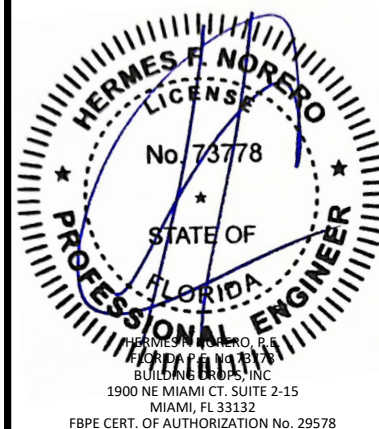
TITLE: DOUBLE OUTSWING COMMERCIAL
STEEL DOOR SYSTEMS W/ LOUVERS
(HVHZ)(IMPACT)
STEELCRAFT: ANCHORS - EMA W/ LAG
BOLT IN WOOD STUD WALL &
POURED CONCRETE TILT UP WALL

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
HINGE UPDATE	SM	02.26.24
MPP/ANCHOR UPDATE	SH	06.14.24
LOCK UPDATE	JA	09.09.24
MISC UPDATE	DI	12.08.25

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.



FL12400

DATE: **04.11.22**

DWG. BY:
CPA

CHK. BY:
HFN

SCALE: **NTS**

DWG. #: **F882W-2D**

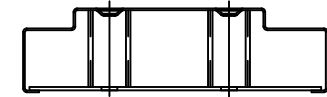
SHEET:

10

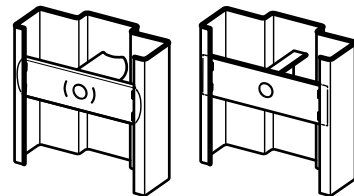
OF 31

SEE SHEET 29 FOR
OPTION 2 ANCHOR DETAILS

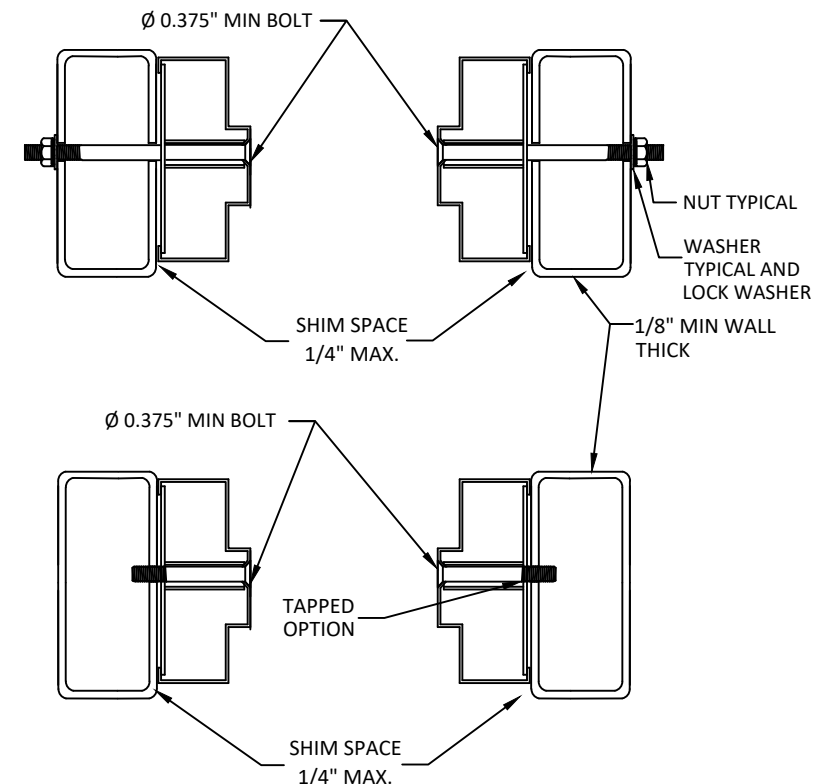
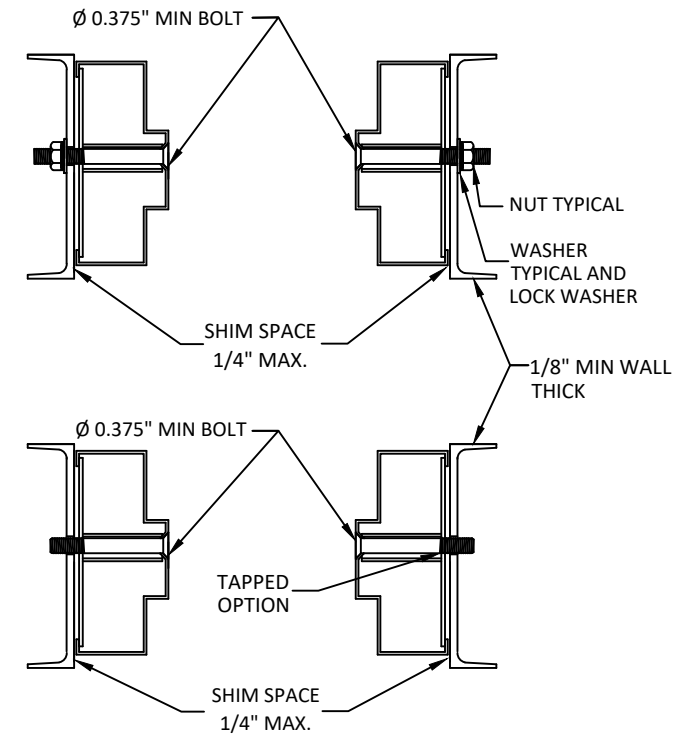
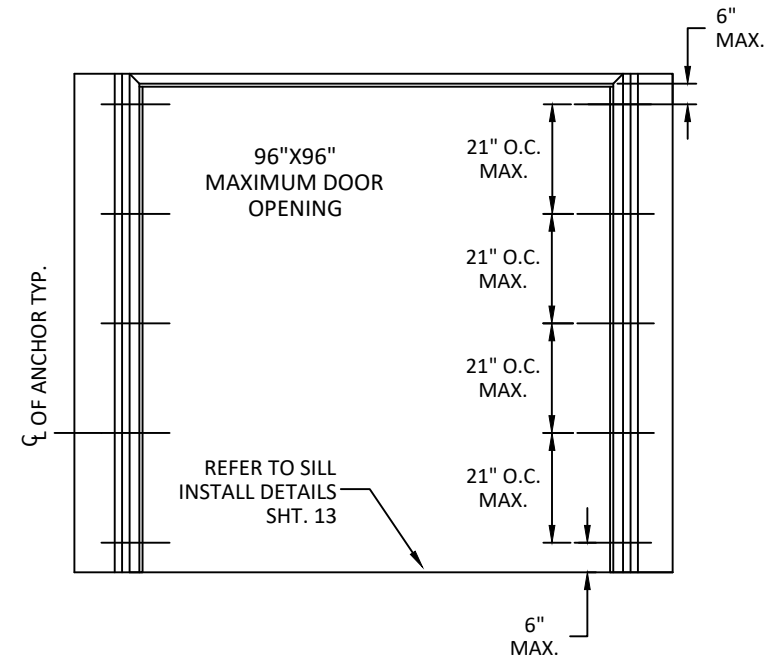
G FRAMES BOLTED TO BUILDING STRUCTURE



9 1/4" JAMB DEPTH AND ABOVE
REQUIRES 2 ANCHOR BOLTS



TUBE/CHANNEL &
PLATE BOLT-IN



NOTE:
1. 3/8" BOLTS AND NUTS TO BE MIN. SAE GRADE 2 OR
EQUIVALENT.

NOTES:

- 1.(*)WOOD OR (*)STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY AT LEAST 250 #/FT. LOAD FOR ASSEMBLIES RATED @60 PSF WHICH SHOULD BE VERIFIED BY THE APPROPRIATE OFFICIAL.
- 2.NUMBER OF ANCHORS FOR VARIOUS OPENING HEIGHTS IS LIMITED BY MAXIMUM DISTANCE BETWEEN ANCHORS, SHOWN ON THIS SHEET.
- 3.SEAL ALL JOINTS WHERE FRAME MEETS WALL WITH BUTYL RUBBER OR SILICONE CAULK.
- 4.INSTALL THRESHOLD INTO BEAD OF BUTYL RUBBER OR SILICONE CAULK FULL LENGTH OF SILL.
- 5.THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS. IF INSTALLATION DEVIATES FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE DOCUMENTS FOR REVIEW AND APPROVAL BY THE LOCAL AHJ.



ALLEGION - SCHLAGE LOCK COMPANY, LLC.
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032
PH: (317) 715-4073

TITLE: DOUBLE OUTSWING COMMERCIAL
STEEL DOOR SYSTEMS W/ LOUVERS
(HVHZ)(IMPACT)

STEELCRAFT: ANCHORS - FRAMES
BOLTED TO BUILDING STRUCTURE

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
HINGE UPDATE	SM	02.26.24
MPP/ANCHOR UPDATE	SH	06.14.24
LOCK UPDATE	JA	09.09.24
MISC UPDATE	DI	12.08.25

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FL12400

DATE: 04.11.22

DWG. BY: CPA
CHK. BY: HFN

SCALE: NTS

DWG. #: F882W-2D

SHEET:

11

OF 31

SEE SHEET 30 FOR
OPTION 2 ANCHOR DETAILS



ALLEGION - SCHLAGE LOCK COMPANY, LLC.
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032
PH: (317) 715-4073

**TITLE: DOUBLE OUTSWING COMMERCIAL
STEEL DOOR SYSTEMS W/ LOUVERS
(HVHZ)(IMPACT)**

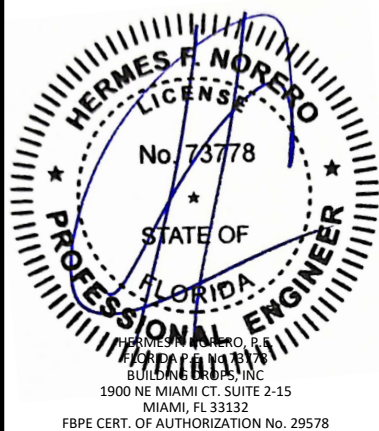
STEELCRAFT: ANCHORS - FRAMES WELDED TO STEEL STRUCTURE BUILDING

PREPARED BY: BUILDING DROPS, INC.



REMARKS	BY	DATE
HINGE UPDATE	SM	02.26.24
MPP/ANCHOR UPDATE	SH	06.14.24
LOCK UPDATE	JA	09.09.24
MISC UPDATE	DI	12.08.25

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.



FL12400

DATE: 04.11.22

DWG. BY: CPA	CHK. BY: HFN
------------------------	------------------------

SCALE: NTS

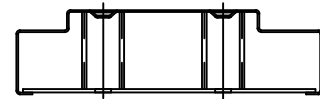
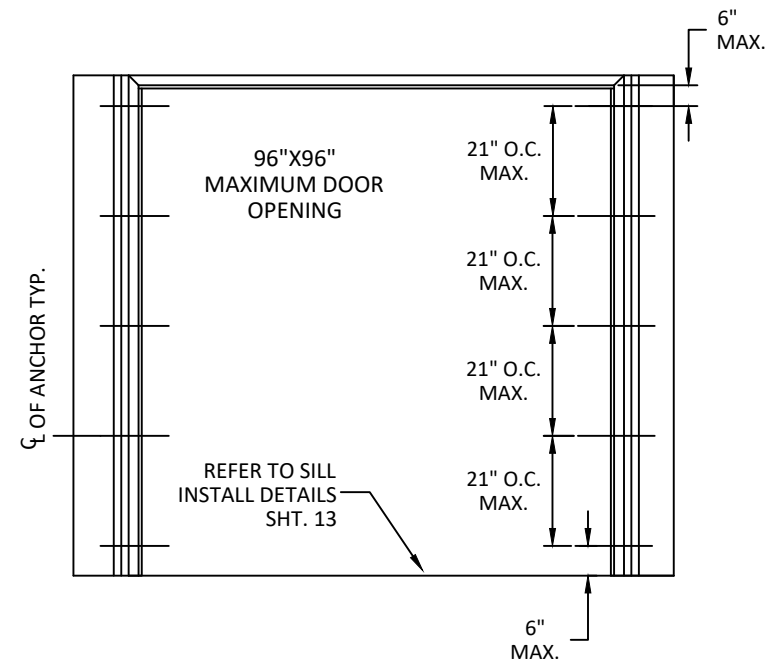
DWG. #: F882W-2D

SHEET:

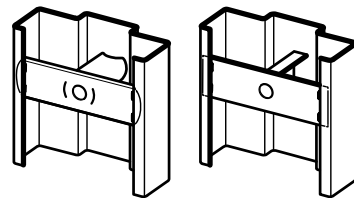
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OF 31

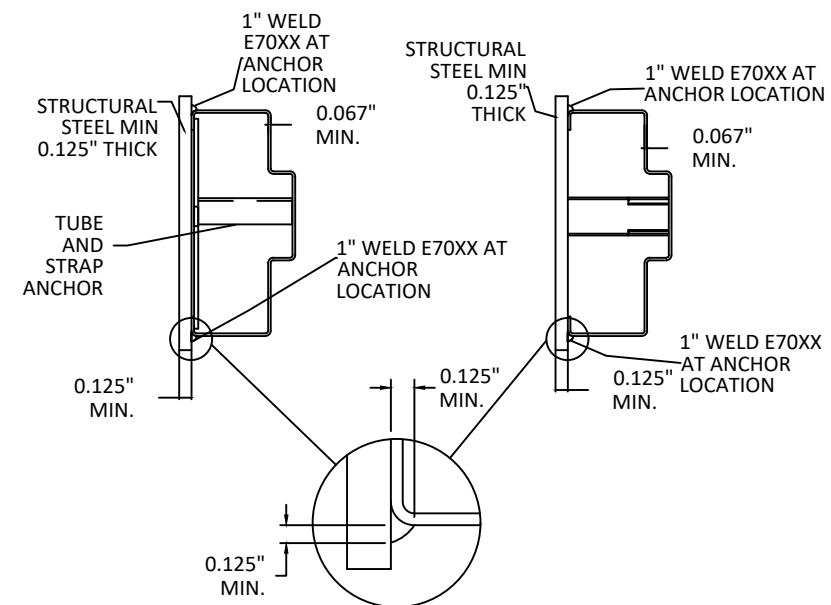
WELDED ANCHOR
SHIM OR STEEL BUILDING
STRUCTURE



9 1/4" JAMB DEPTH AND ABOVE
REQUIRES 2 ANCHOR BOLTS



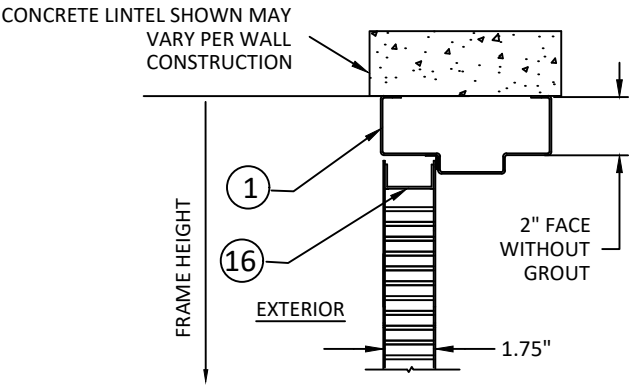
TUBE/CHANNEL &
PLATE BOLT-IN



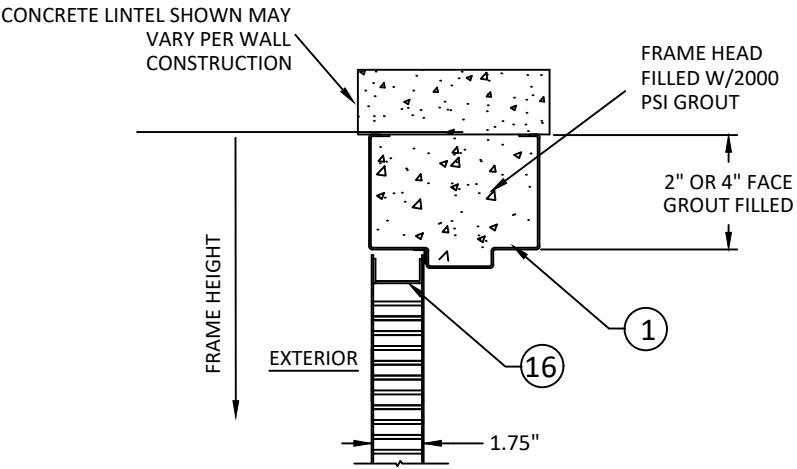
NOTES:

1. (*) WOOD OR (*) STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY AT LEAST 250 #/FT. LOAD FOR ASSEMBLIES RATED @60 PSF WHICH SHOULD BE VERIFIED BY THE APPROPRIATE OFFICIAL.
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4. INSTALL THRESHOLD INTO BEAD OF BUTYL RUBBER OR SILICONE CAULK FULL LENGTH OF SILL.
5. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS. IF INSTALLATION DEVIATES FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE DOCUMENTS FOR REVIEW AND APPROVAL BY THE LOCAL AHJ.

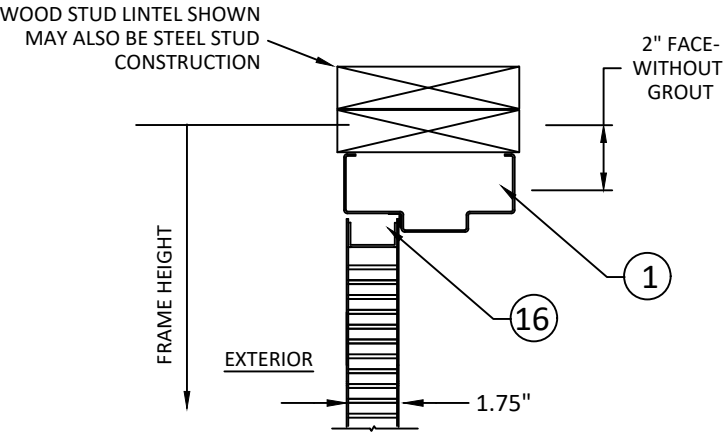
SEE SHEET 31 FOR
OPTION 2 ANCHOR DETAILS



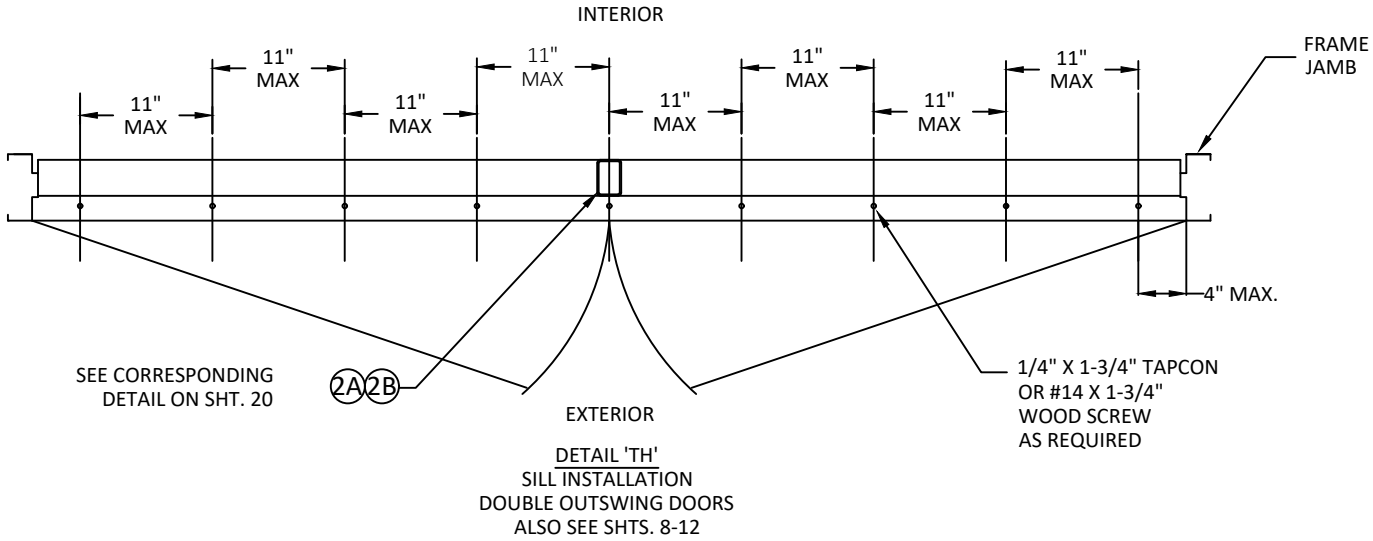
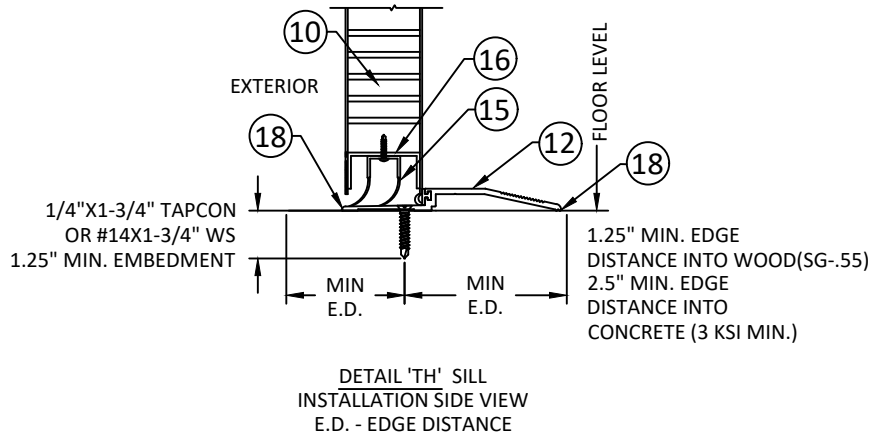
HD1 - FRAME HEAD SECTION



HD2 - FRAME HEAD SECTION



HD3 - FRAME HEAD SECTION



NOTES:
1.(*)WOOD OR (*)STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY AT LEAST 250 #/FT. LOAD FOR ASSEMBLIES RATED @60 PSF WHICH SHOULD BE VERIFIED BY THE APPROPRIATE OFFICIAL.
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ALLEGION - SCHLAGE LOCK COMPANY, LLC.
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032
PH: (317) 715-4073

TITLE: DOUBLE OUTSWING COMMERCIAL
STEEL DOOR SYSTEMS W/ LOUVERS
(HVHZ)(IMPACT)

STEELCRAFT: FRAME HEAD
& SILL ANCHOR DETAILS

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
HINGE UPDATE	SM	02.26.24
MPP/ANCHOR UPDATE	SH	06.14.24
LOCK UPDATE	JA	09.09.24
MISC UPDATE	DI	12.08.25

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FL12400

DATE: 04.11.22

DWG. BY:
CPA

CHK. BY:
HFN

SCALE: NTS

DWG. #: F882W-2D

SHEET:

13

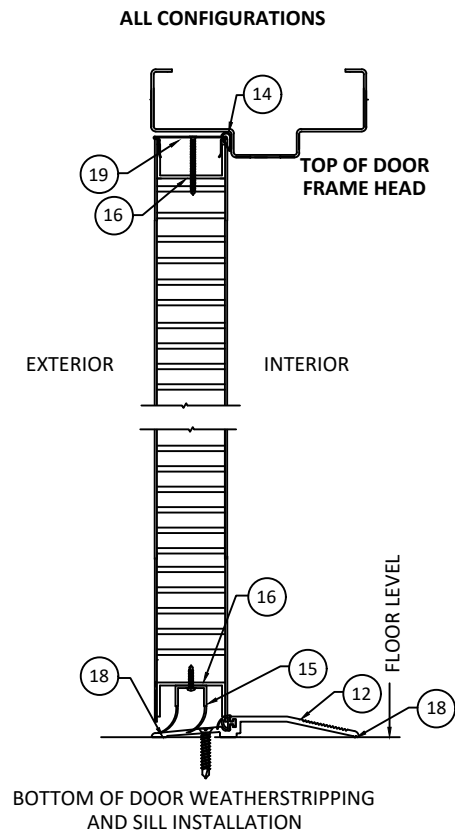
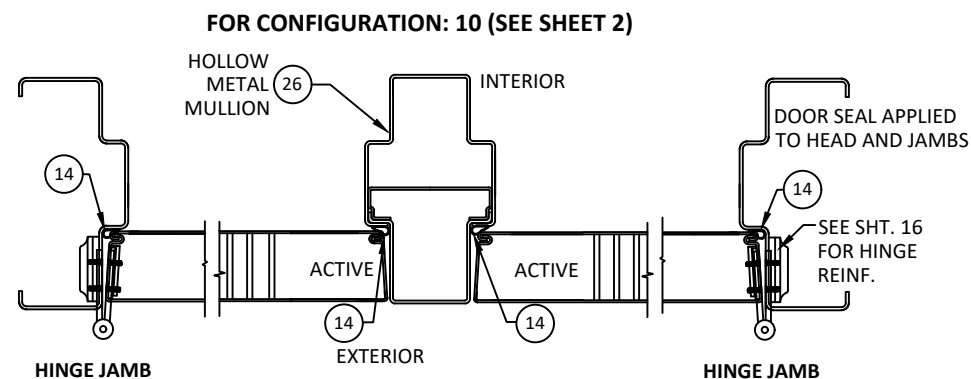
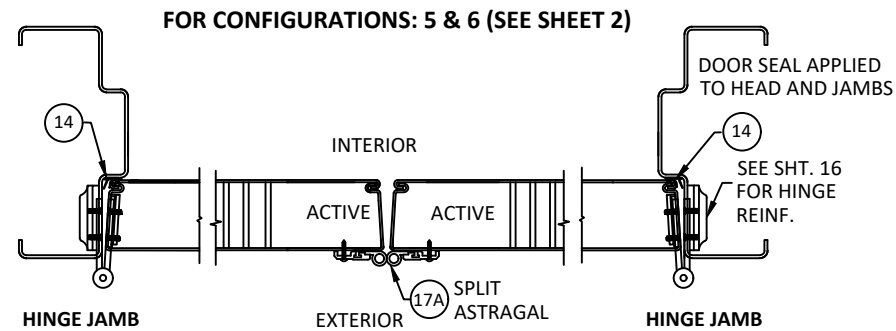
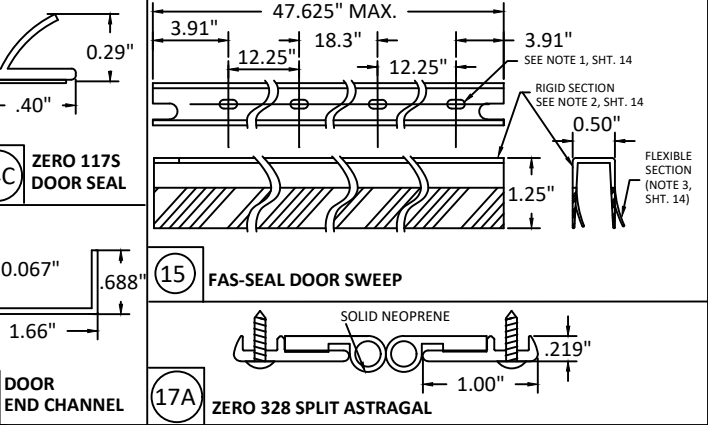
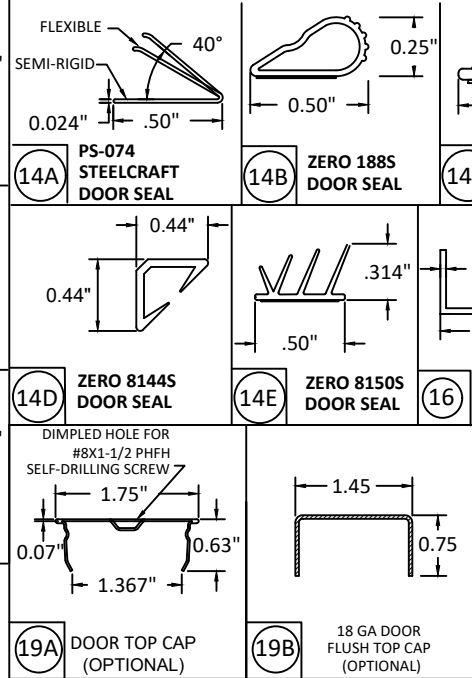
OF 31

ITEM NUMBER	MODEL NO./ DESCRIPTION		MFG.
12	12A	566 THRESHOLD	ZERO INT'L
	12C	65 THRESHOLD	ZERO INT'L
	12D	568 THRESHOLD	ZERO INT'L
14	14A	PS074 DOOR SEAL	STEELCRAFT
	14B	188S DOOR SEAL	ZERO INT'L
	14C	117S DOOR SEAL	ZERO INT'L
	14D	8144S DOOR SEAL	ZERO INT'L
	14E	8150S DOOR SEAL	ZERO INT'L
15	FAS-SEAL SWEEP		STEELCRAFT
16	END CHANNEL		STEELCRAFT
17	328 SPLIT ASTRAGAL		ZERO INT'L
19A	DOOR TOP CAP		STEELCRAFT
19B	FLUSH TOP CAP		STEELCRAFT

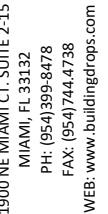
12A ZERO INT'L 566 SERIES THRESHOLD

12C ZERO INT'L 65 SERIES THRESHOLD

12D ZERO INT'L 568 SERIES THRESHOLD



-
- TYPICAL THRESHOLD SET INTO BEAD OF CAULK SEE NOTE 6, SHT. 14**



THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERAL IN NATURE 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.

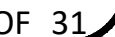
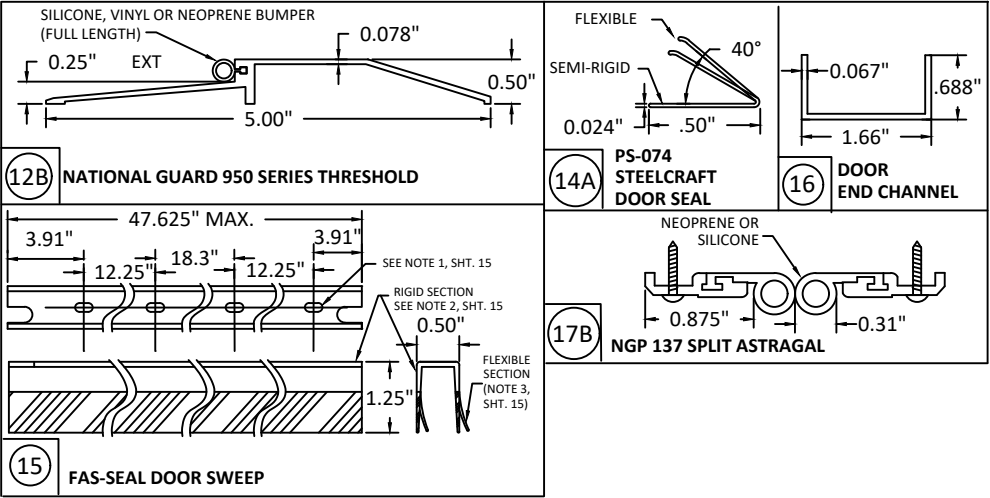


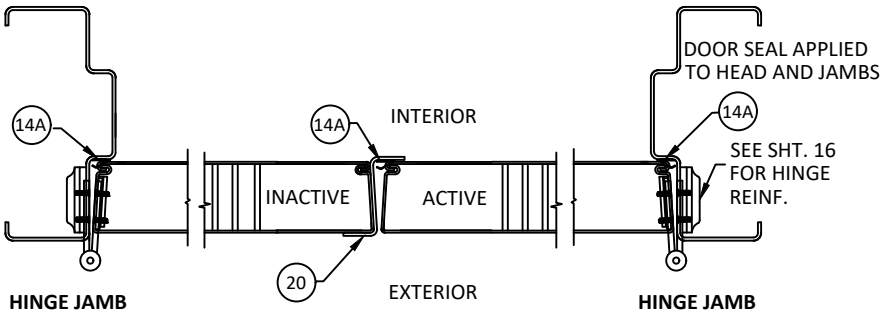
TABLE 6.2 NON WATER RATED PERIMETER SEAL HARDWARE - NGP THRESHOLD

ITEM NUMBER	MODEL NO./ DESCRIPTION	MFG.
12B	950 THRESHOLD	NGP
14A	PS074 DOOR SEAL	STEELCRAFT
15	FAS-SEAL SWEEP	STEELCRAFT
16	END CHANNEL	STEELCRAFT
17B	137 SPLIT ASTRAGAL	NGP

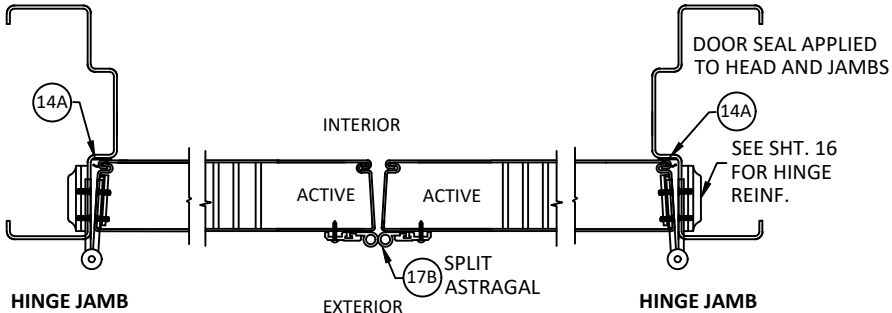
NGP 950 THRESHOLD GASKETING SYSTEM REQUIREMENTS WHEN WATER INFILTRATION IS NOT REQUIRED



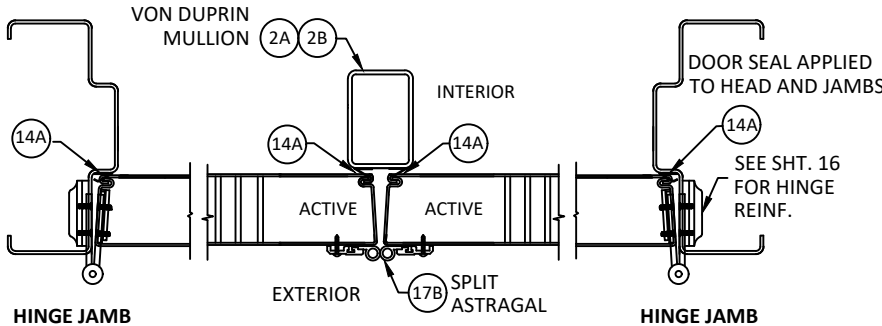
FOR CONFIGURATIONS: 1, 2 & 3 (SEE SHEET 2)



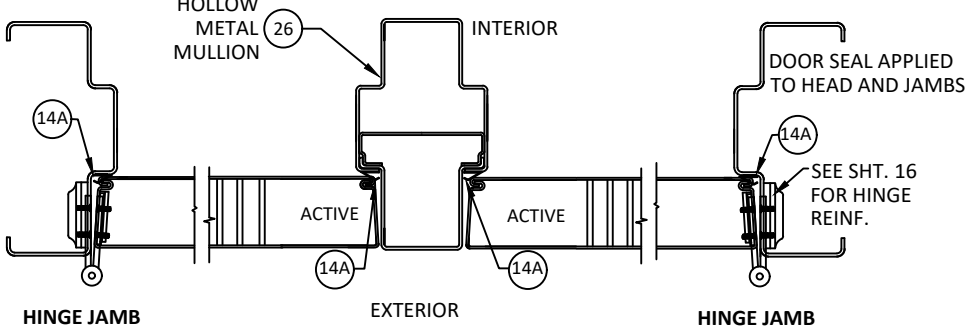
FOR CONFIGURATIONS: 5 & 6 (SEE SHEET 2)



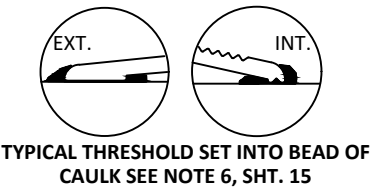
FOR CONFIGURATIONS: 4 & 7 (SEE SHEET 2)



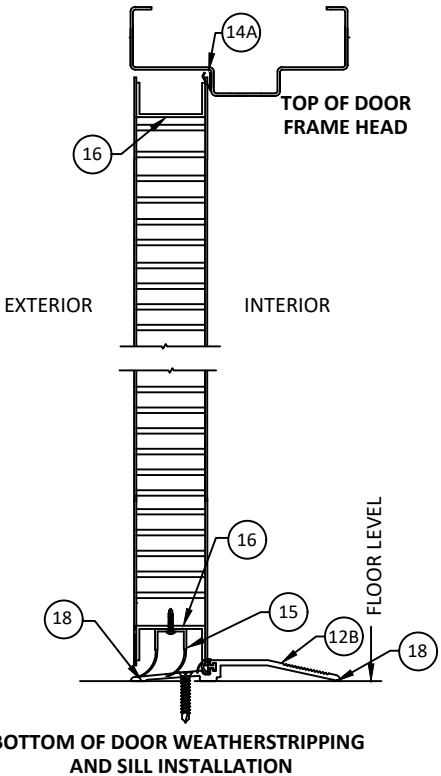
FOR CONFIGURATION: 10 (SEE CONFIGURATIONS SHEET 2)



- NOTES:
1. SLOT LOCATIONS MAY VARY WITH DIFFERENT DOOR WIDTH.
 2. DOOR SWEEP RIGID SECTION IS MADE OF PRO-FAX #PD-199 POLYPROPYLENE HOMOPOLYMER.
 3. DOOR SWEEP FLEXIBLE SECTION IS MADE OF SANTOPRENE #101-73
 4. STEELCRAFT ASSEMBLIES REQUIRE FAS-SEAL DOOR SWEEP (15), DOOR SEAL (14A, 14B, 14C, 14D, 14E) AND THRESHOLD (12A, 12C, 12D) AS APPLICABLE, FOR ALL INSTALLATIONS.
 5. SEAL ALL JOINTS WHERE FRAME MEETS WALL WITH BUTYL RUBBER OR SILICONE CAULK
 6. INSTALL THRESHOLD INTO BEAD OF BUTYL RUBBER OR SILICONE CAULK FULL LENGTH OF SILL
 7. REPUBLIC ASSEMBLIES REQUIRE DOOR SEAL (14) AND THRESHOLD (12) AS APPLICABLE
 8. REPUBLIC DOORS HAVE FLUSH TOP DOOR CHANNEL - TOP CAP NOT APPLICABLE



ALL CONFIGURATIONS



ALLEGION - SCHLAGE LOCK COMPANY, LLC.
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032
PH: (317) 715-4073

TITLE: DOUBLE OUTSWING COMMERCIAL STEEL DOOR SYSTEMS W/ LOUVERS (HVHZ)(IMPACT)

GASKETING DETAILS - NGP THRESHOLDS

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
HINGE UPDATE	SM	02.26.24
MPP/ANCHOR UPDATE	SH	06.14.24
LOCK UPDATE	JA	09.09.24
MISC UPDATE	DI	12.08.25

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

FL12400

DATE: **04.11.22**

DWG. BY: **CPA** CHK. BY: **HFN**

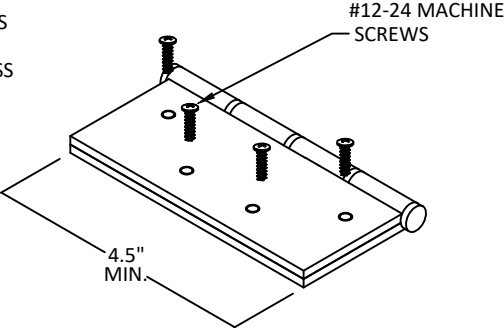
SCALE: **NTS**

DWG. #: **F882W-2D**

SHEET: **15** OF 31

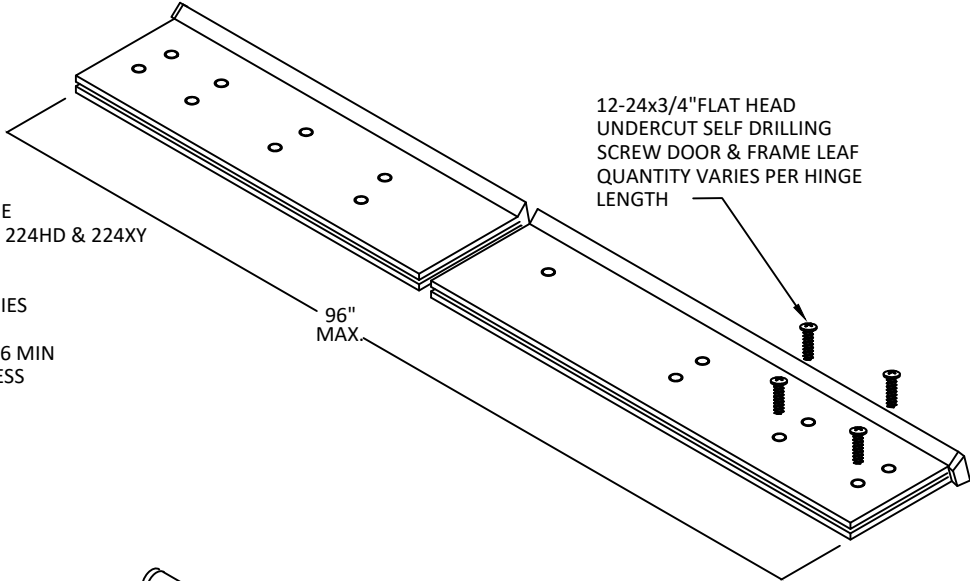
9

BUTT HINGE 4.5" STD. WT. MIN. IVES 5BB1/3CB1 STANLEY FBB179/1900 HAGER BB1279 .134" MIN. THICKNESS STEEL, STAINLESS STEEL OR BRASS



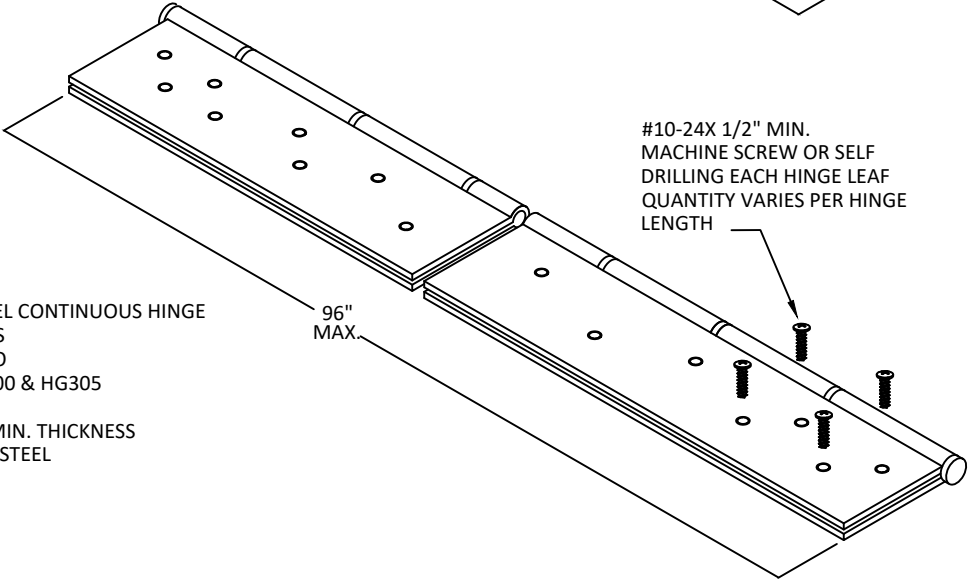
9

CONTINUOUS HINGE IVES 112HD, 112XY, 224HD & 224XY STANLEY 661HD SELECT SL11HD PEMKO FM_HD SERIES HAGER 780-224HD ALUMINUM 6036-T6 MIN .110" MIN. THICKNESS

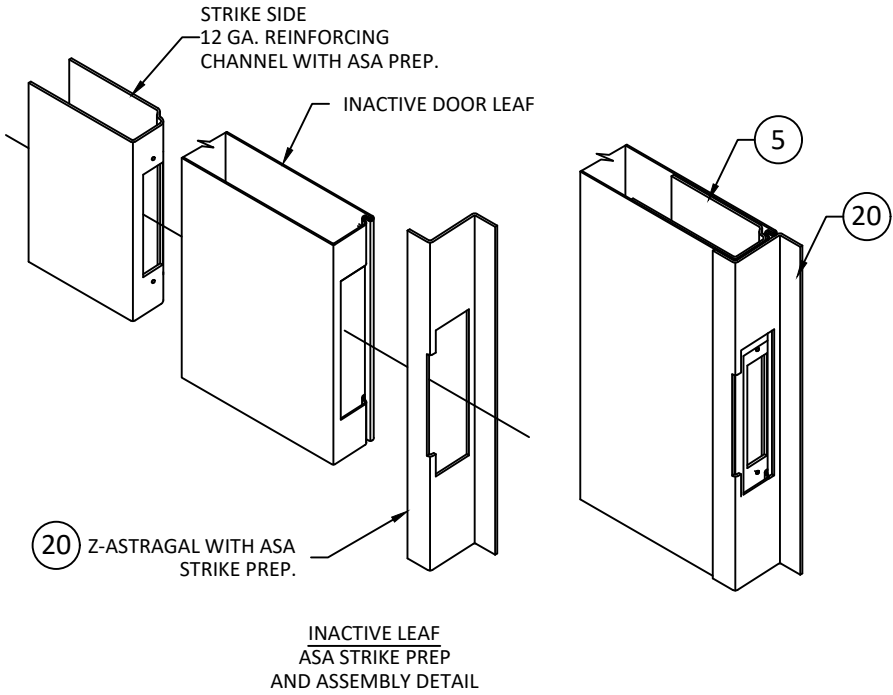


9

STAINLESS STEEL CONTINUOUS HINGE IVES 700, 700CS HAGER 790-900 MARKAR FM-300 & HG305 ABH A-500 .075" (14GA.) MIN. THICKNESS 304 STAINLESS STEEL

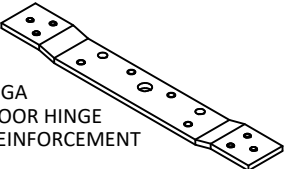


HINGE NOTES:
1. QUANTITY OF SCREWS VARIES PER HINGE LENGTH, MANUFACTURER AND MODEL NUMBER
2. SCREW SPACING VARIES PER HINGE LENGTH, MANUFACTURER AND MODEL NUMBER
3. INSTALL HINGES PER THE MANUFACTURERS INSTALLATION INSTRUCTIONS
4. BUTT AND CONTINUOUS HINGES MAY INCLUDE ELECTRICAL THROUGH-WIRE, POWER TRANSFER AND MONITORING
5. DOORS AND FRAMES DO NOT REQUIRE ADDITIONAL REINFORCEMENT WITH A CONTINUOUS HINGE



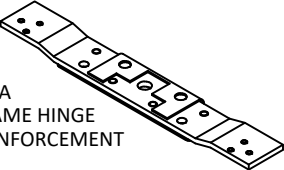
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7 GA DOOR HINGE REINFORCEMENT



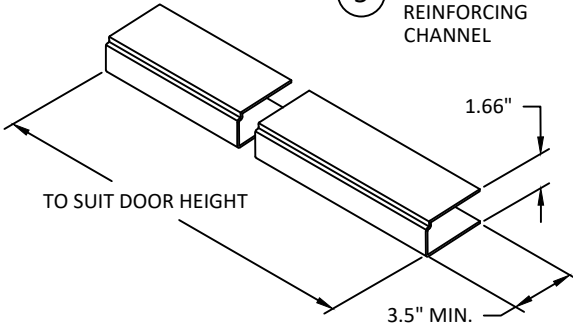
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7 GA FRAME HINGE REINFORCEMENT



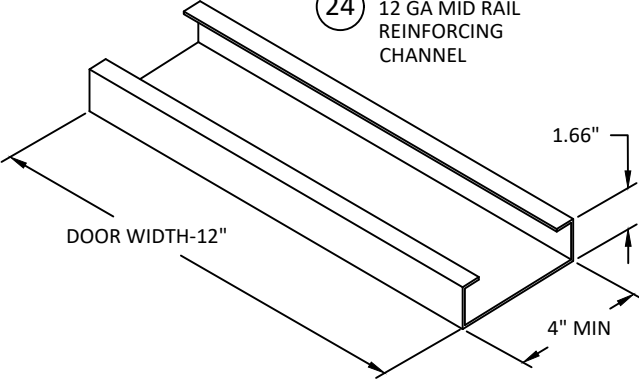
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12 GA LOCKSIDE REINFORCING CHANNEL



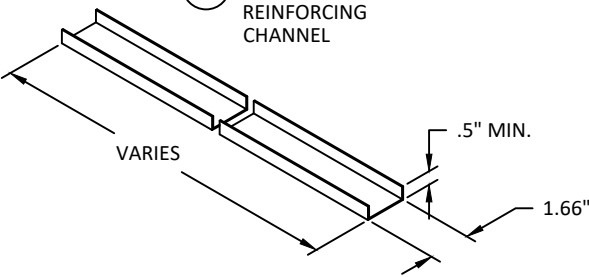
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12 GA MID RAIL REINFORCING CHANNEL



23

18 GA CUTOUT REINFORCING CHANNEL



ALLEGION - SCHLAGE LOCK COMPANY, LLC.
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032
PH: (317) 715-4073

TITLE: DOUBLE OUTSWING COMMERCIAL
STEEL DOOR SYSTEMS W/ LOUVERS
(HVHZ)(IMPACT)
HINGES, THRESHOLDS, CHANNELS,
& STRIKE REINFORCEMENTS

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
HINGE UPDATE	SM	02.26.24
MPP/ANCHOR UPDATE	SH	06.14.24
LOCK UPDATE	JA	09.09.24
MISC UPDATE	DI	12.08.25

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

FL12400

DATE: 04.11.22

DWG. BY: CPA

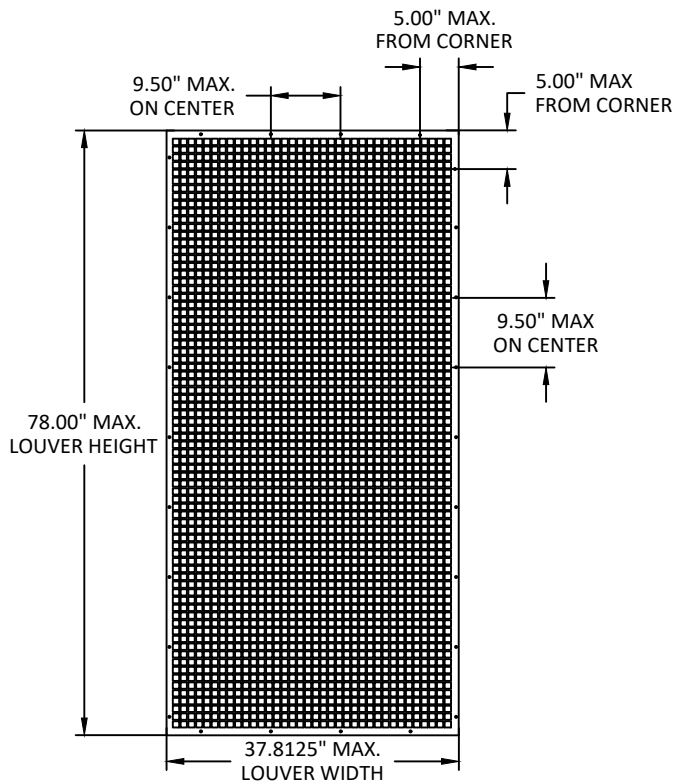
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SCALE: NTS

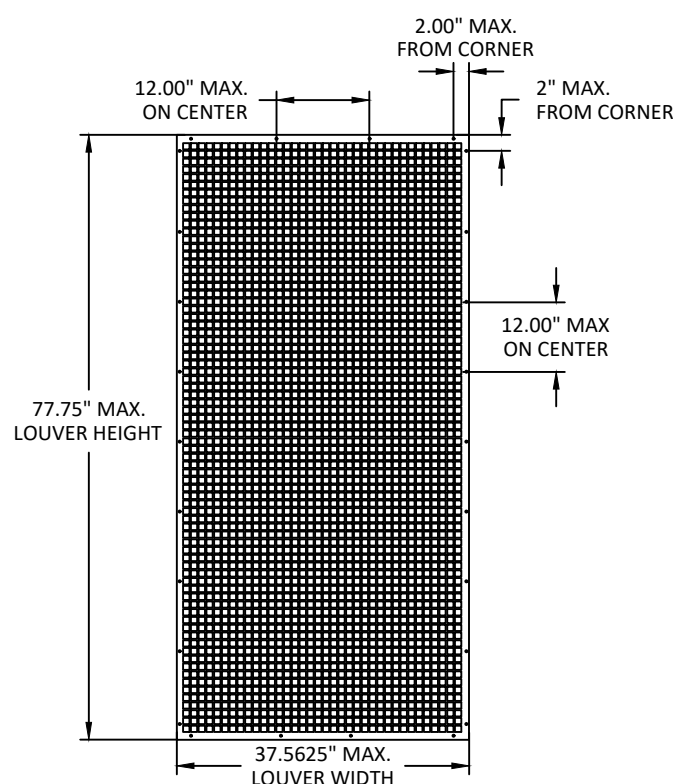
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SHEET: 16

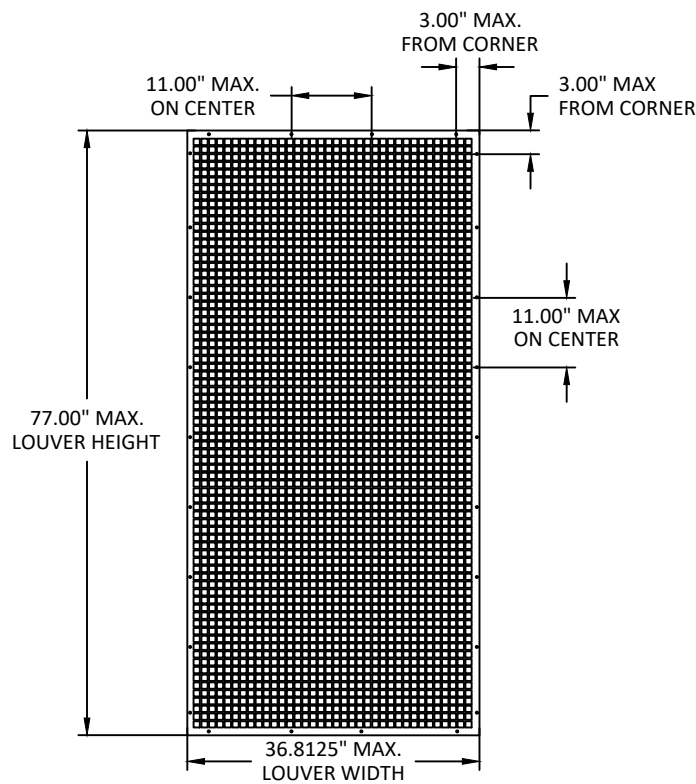
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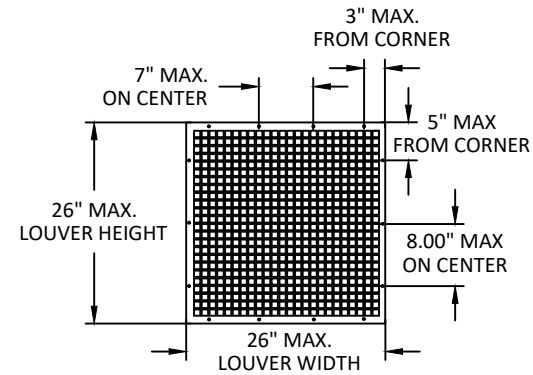
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SECURITY LOUVER
PLSL



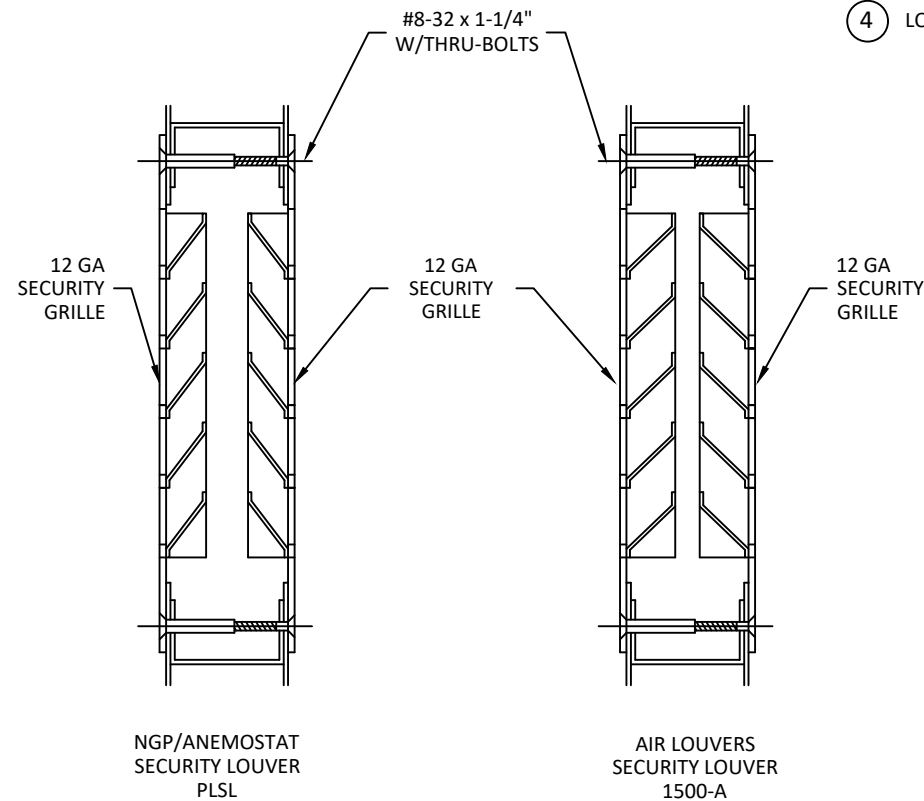
AIR LOUVERS
SECURITY LOUVER
1500-A



NATIONAL GUARD
SECURITY LOUVER
L-VRSG-2

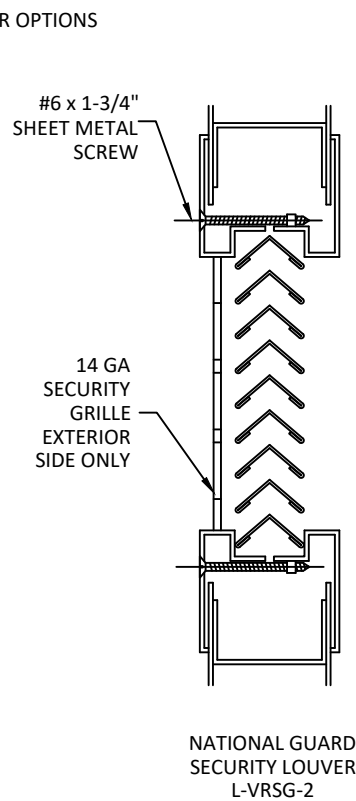


NGP/ANEMOSTAT
FUSIBLE LINK
SECURITY LOUVER
FDL-SG1
OR FDL-SG2

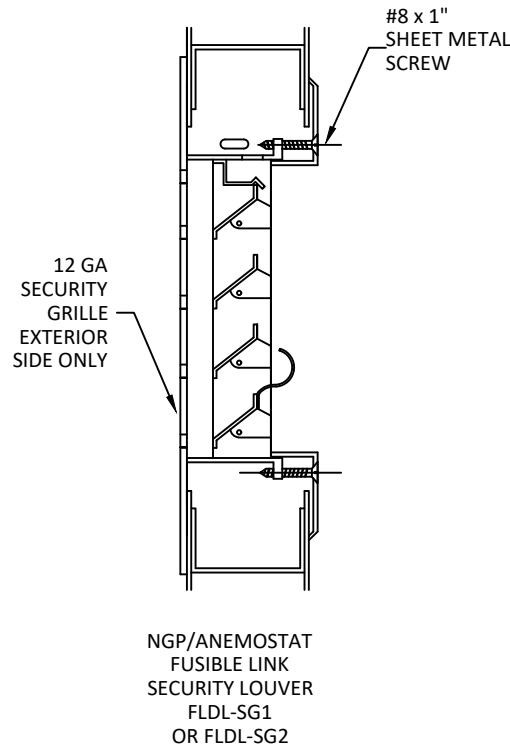


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PLSL

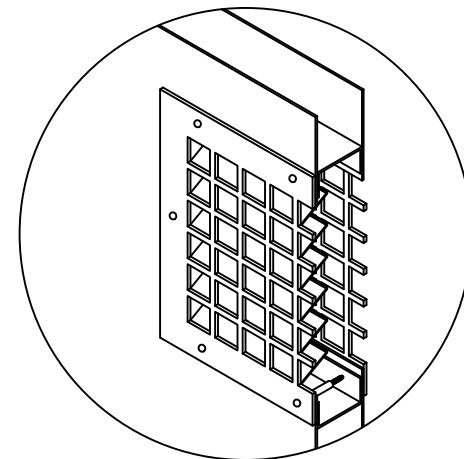
AIR LOUVERS
SECURITY LOUVER
1500-A



NATIONAL GUARD
SECURITY LOUVER
L-VRSG-2



NGP/ANEMOSTAT
FUSIBLE LINK
SECURITY LOUVER
FDL-SG1
OR FDL-SG2



SECURITY LOUVER DETAIL
LOUVERS: NATIONAL GUARD L-VRSG-2
AIR LOUVERS 1500-A
NGP/ANEMOSTAT PLSL
NGP/ANEMOSTAT FDL-SG1 OR FDL-SG2

- NOTES:
1. SCREW SPACING MAY VARY WITH LOUVER HEIGHT AND WIDTH.
 2. MAXIMUM LOUVER SIZE VARIES BASED ON DOOR SIZE AND MANUFACTURER'S LIMITATIONS.
 3. CUT OUT REINFORCEMENT CHANNEL MAY BE INSTALLED INVERTED OR FLUSH.



ALLEGION - SCHLAGE LOCK COMPANY, LLC.
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032
PH: (317) 715-4073

TITLE: DOUBLE OUTSWING COMMERCIAL
STEEL DOOR SYSTEMS W/ LOUVERS
(HVHZ)(IMPACT)

LOUVER OPTIONS

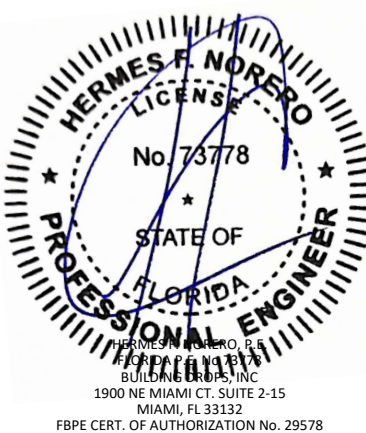
PREPARED BY: BUILDING DROPS, INC.

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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FL12400

DATE: 04.11.22

DWG. BY: CPA
CHK. BY: HFN

SCALE: NTS

DWG. #: F882W-2D

SHEET:

17

OF 31



ALLEGION - SCHLAGE LOCK COMPANY, LLC.
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032
PH: (317) 715-4073

TITLE: DOUBLE OUTSWING COMMERCIAL
STEEL DOOR SYSTEMS W/ LOUVERS
(HVHZ)(IMPACT)

LOUVER PANEL OPTIONS

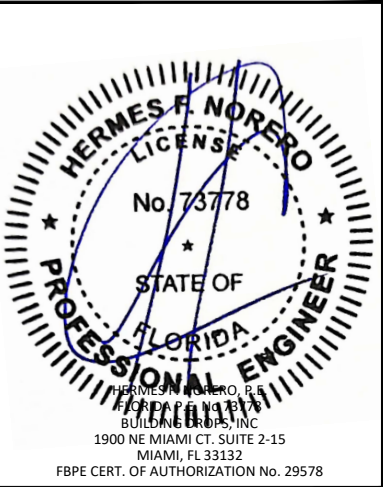
PREPARED BY: BUILDING DROPS, INC.

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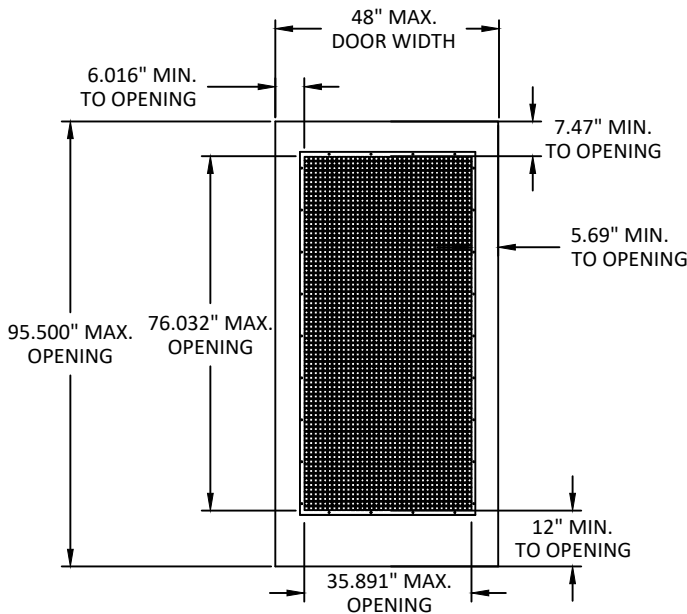


FL12400

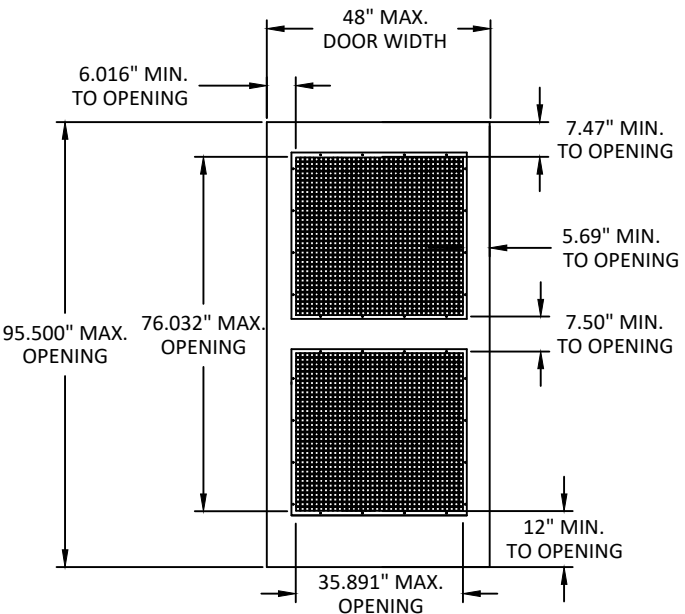
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SCALE:	NTS
DWG. #:	F882W-2D
SHEET:	

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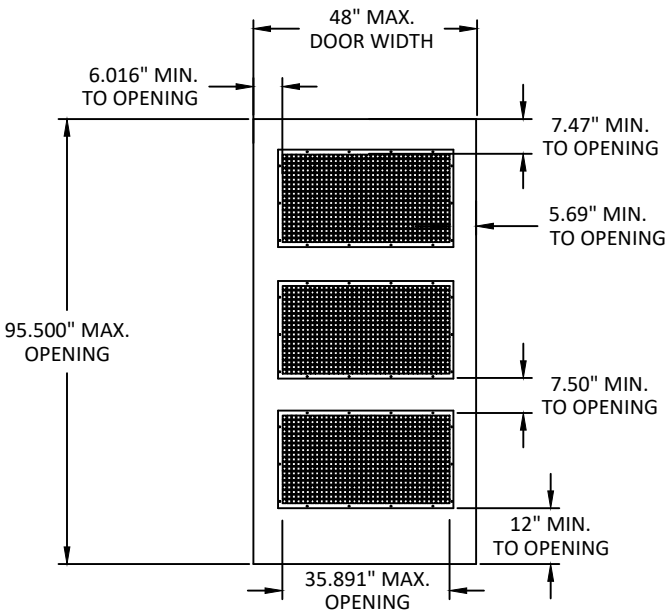
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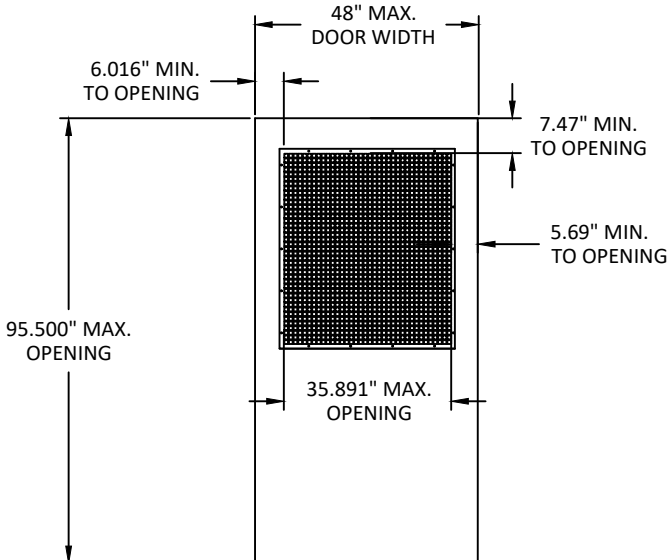
FL - FULL LOUVER



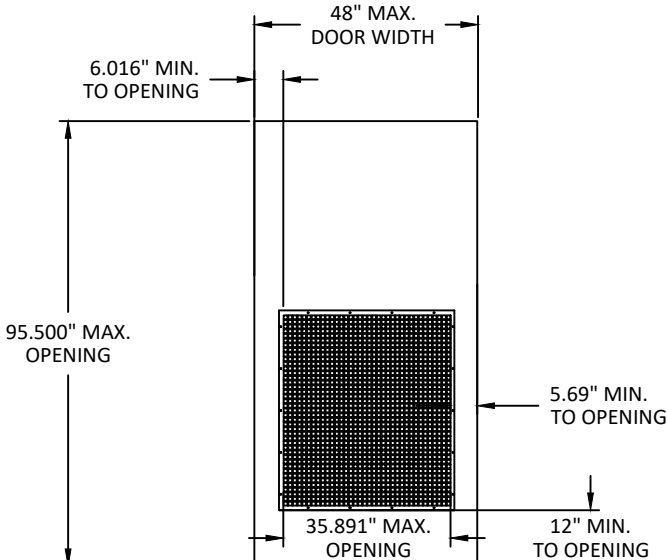
LL - TWO LOUVER



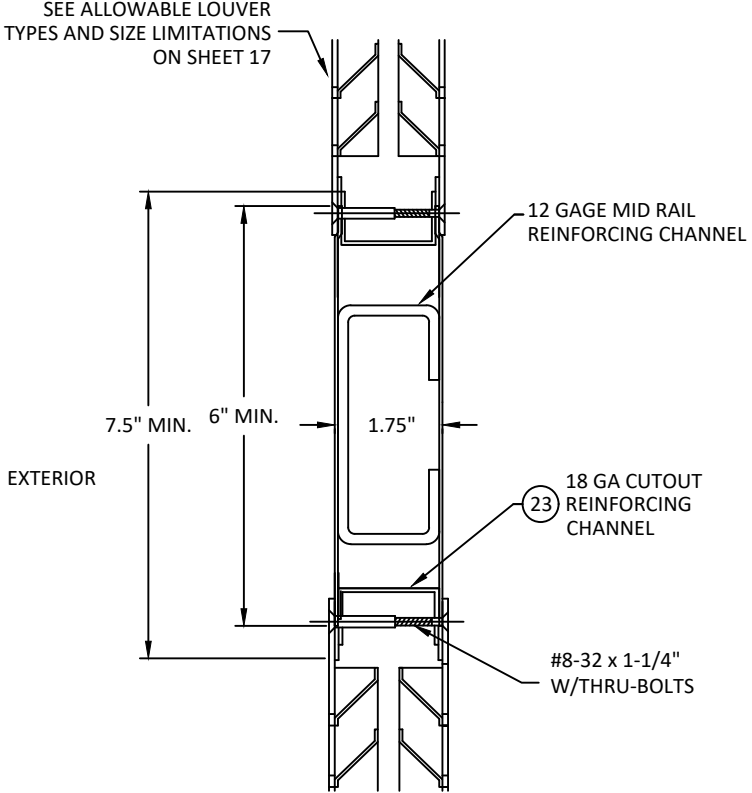
LLL - THREE LOUVER



TL - FULL LOUVER

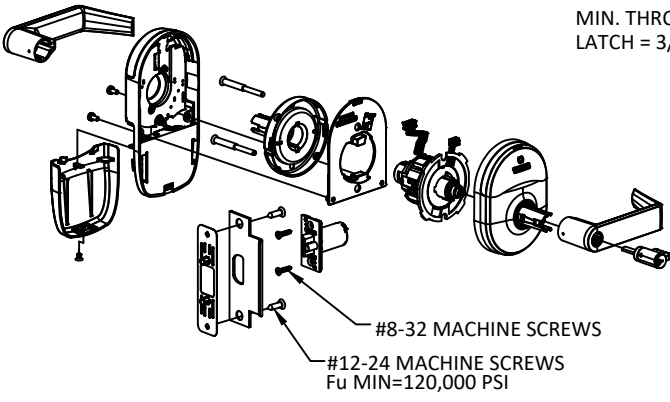
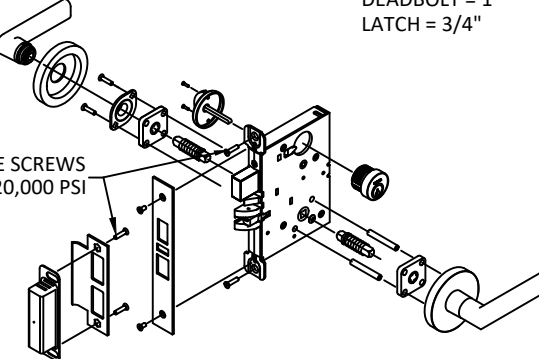
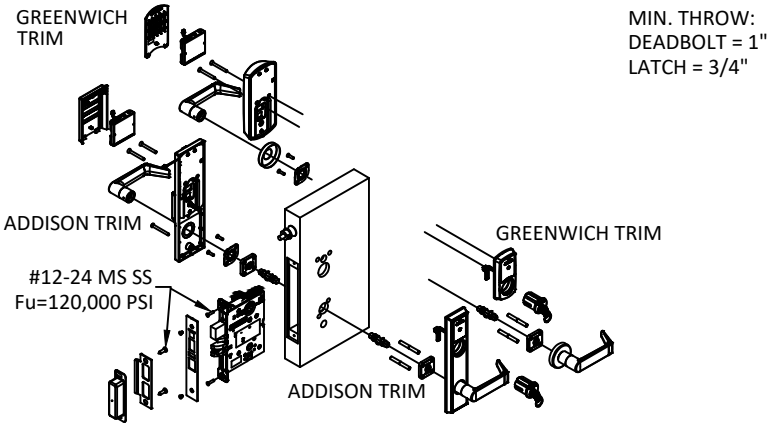
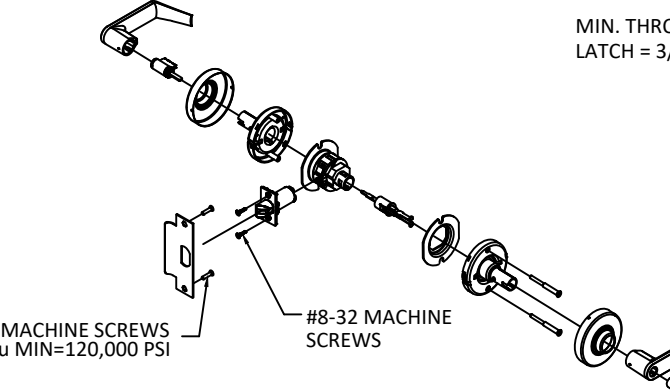
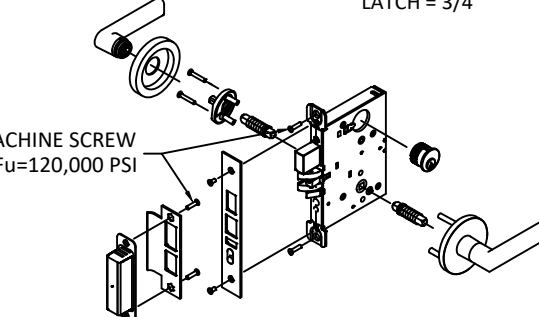
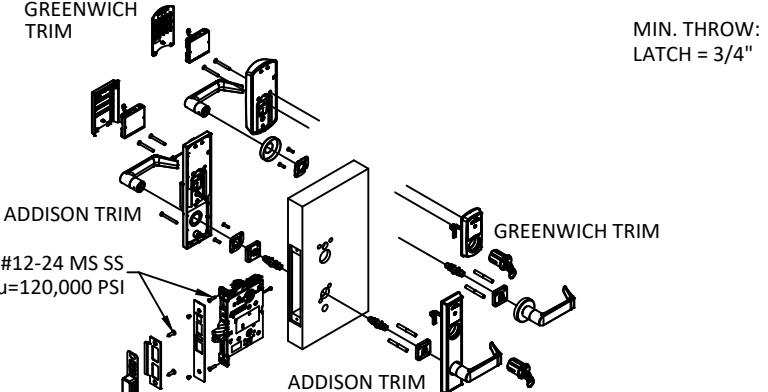
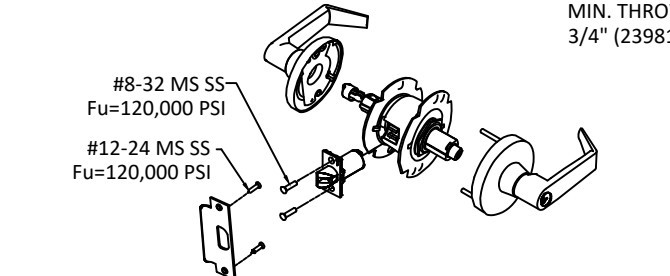
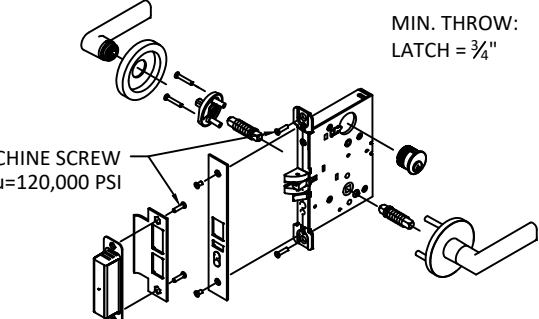
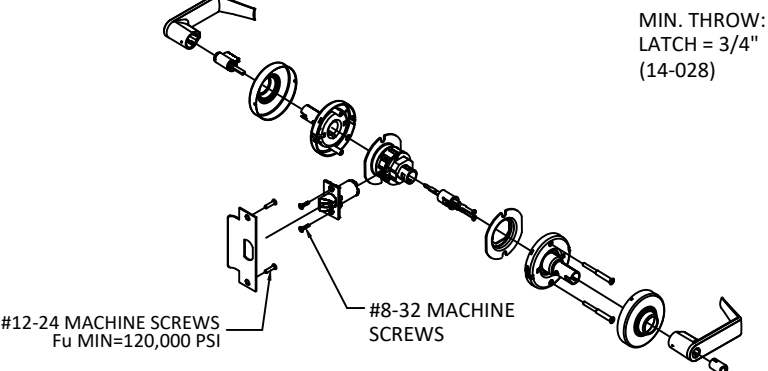
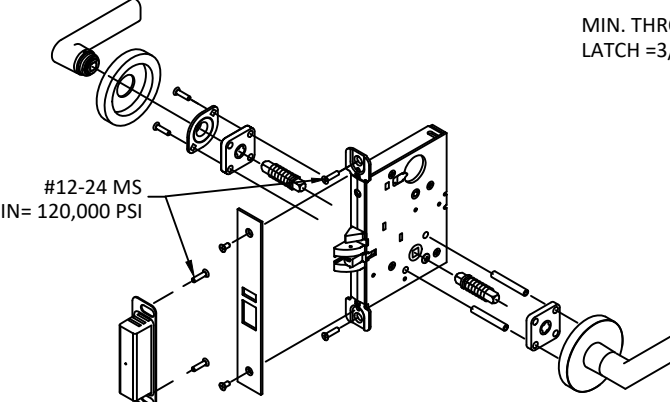
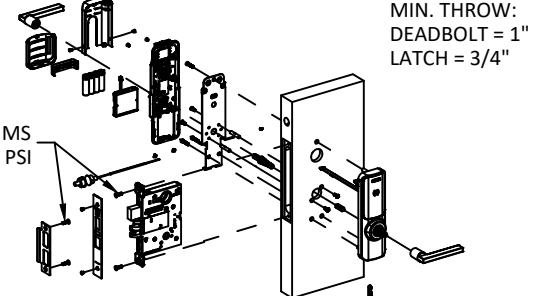
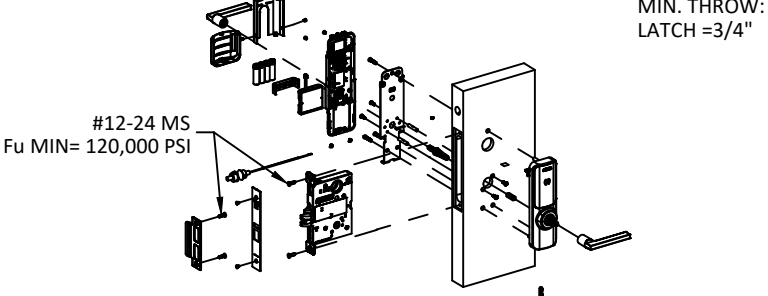


BL - BOTTOM LOUVER



HORIZONTAL
MID-RAIL SECTION

- NOTES:
1. MAXIMUM LOUVER SIZE VARIES BASED ON DOOR SIZE AND MANUFACTURER'S LIMITATIONS
 2. MINIMUM LOCK STILE 6.016 FROM EDGE OF DOOR TO OPENING FOR STEELCRAFT AND REPUBLIC
 3. MINIMUM HINGE STILE 6.016 FROM EDGE OF DOOR TO OPENING FOR STEELCRAFT DOOR WITH BUTT HINGES
 4. MINIMUM HINGE STILE 5.69 FROM EDGE OF DOOR TO OPENING FOR STEELCRAFT DOOR WITH CONTINUOUS HINGE
 5. MINIMUM HINGE STILE 5.875 FROM EDGE OF DOOR TO OPENING FOR REPUBLIC DOOR WITH BUTT OR CONTINUOUS HINGE
 6. CUT OUT REINFORCEMENT CHANNEL MAY BE INSTALLED INVERTED OR FLUSH

 MIN. THROW: LATCH = 3/4" #8-32 MACHINE SCREWS #12-24 MACHINE SCREWS Fu MIN=120,000 PSI	 MIN. THROW: DEADBOLT = 1" LATCH = 3/4" #12-24 MACHINE SCREWS Fu MIN=120,000 PSI	 MIN. THROW: DEADBOLT = 1" LATCH = 3/4" GREENWICH TRIM ADDISON TRIM #12-24 MS SS Fu=120,000 PSI GREENWICH TRIM ADDISON TRIM
SCHLAGE NDE & NDEB SERIES CYLINDRICAL LOCKSET USED IN CONFIGURATION: 3	SCHLAGE L/LV 9400 & PM400 SERIES MORTISE LOCKSET W/ DEADBOLT USED IN CONFIGURATION: 1	SCHLAGE LE-MD & LEB-MD SERIES MORTISE LOCKSET W/ DEADBOLT USED IN CONFIGURATION: 1
 MIN. THROW: LATCH = 3/4" #12-24 MACHINE SCREWS Fu MIN=120,000 PSI #8-32 MACHINE SCREWS	 MIN. THROW: DEADBOLT = 1" LATCH = 3/4" #12-24 MACHINE SCREW SS Fu=120,000 PSI	 MIN. THROW: LATCH = 3/4" GREENWICH TRIM ADDISON TRIM #12-24 MS SS Fu=120,000 PSI GREENWICH TRIM ADDISON TRIM
SCHLAGE D/ND-SERIES CYLINDRICAL LOCKSET USED IN CONFIGURATION: 3	FALCON MA-SERIES MORTISE LOCKSET W/ DEADBOLT USED IN CONFIGURATION: 1	SCHLAGE LE-MS, LEB-MS, LE-MB, LEB-MB SERIES MORTISE LOCKSET W/O DEADBOLT USED IN CONFIGURATION: 2
 MIN. THROW LATCH: 3/4" (23981152) #8-32 MS SS Fu=120,000 PSI #12-24 MS SS Fu=120,000 PSI	 MIN. THROW: LATCH = 3/4" #12-24 MACHINE SCREW SS Fu=120,000 PSI	 MIN. THROW: LATCH = 3/4" (14-028) #12-24 MACHINE SCREWS Fu MIN=120,000 PSI #8-32 MACHINE SCREWS
FALCON, T AND TM -SERIES CYLINDRICAL LEVER LOCKSET USED IN CONFIGURATION: 3	FALCON MA-SERIES MORTISE LOCKSET W/O DEADBOLT USED IN CONFIGURATION: 2	SCHLAGE ALX AND PC SERIES CYLINDRICAL LOCKSET. USED IN CONFIGURATION: 3
 MIN. THROW: LATCH =3/4" #12-24 MS Fu MIN= 120,000 PSI	 MIN. THROW: DEADBOLT = 1" LATCH = 3/4" #12-24 MS Fu MIN= 120,000 PSI	 MIN. THROW: LATCH =3/4" #12-24 MS Fu MIN= 120,000 PSI
SCHLAGE L/LV 9000 & PM SERIES MORTISE LOCK WITHOUT DEADBOLT USED IN CONFIGURATION: 2	SCHLAGE XE360-M-D SERIES MORTISE LOCKSET WITH DEADBOLT USED IN CONFIGURATION: 1	SCHLAGE XE360-M-B & XE360-M-I SERIES MORTISE LOCKSET W/O DEADBOLT USED IN CONFIGURATION: 2



ALLEGION - SCHLAGE LOCK COMPANY, LLC.
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032
PH: (317) 715-4073

TITLE: DOUBLE OUTSWING COMMERCIAL
STEEL DOOR SYSTEMS W/ LOUVERS
(HVHZ)(IMPACT)

LOCKING HARDWARE

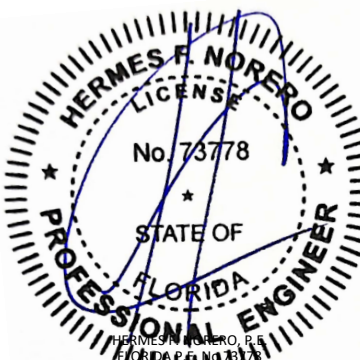
PREPARED BY:

BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954) 399-8478
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REMARKS	BY	DATE
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BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL12400

DATE: **04.11.22**

DWG. BY: CPA	CHK. BY: HFN
------------------------	------------------------

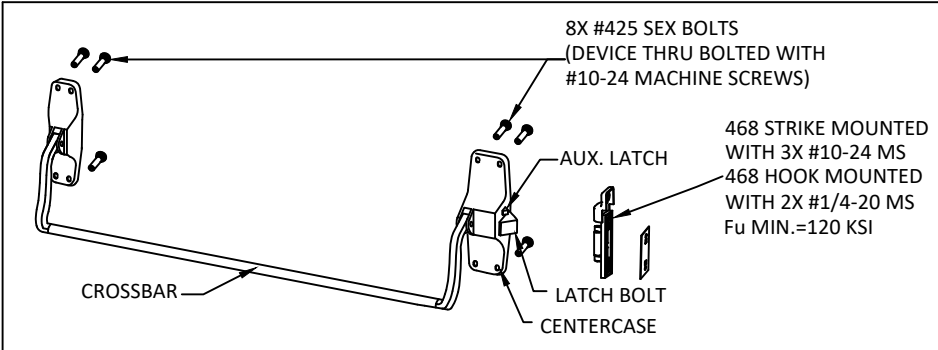
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DWG. #: **F882W-2D**

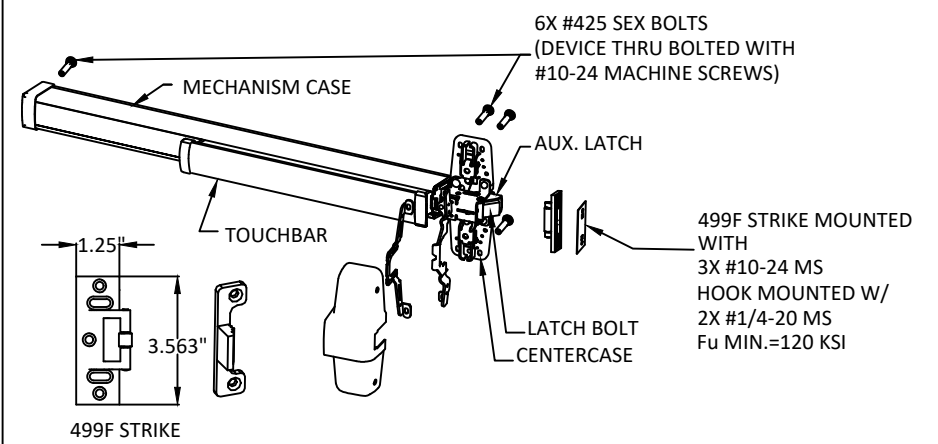
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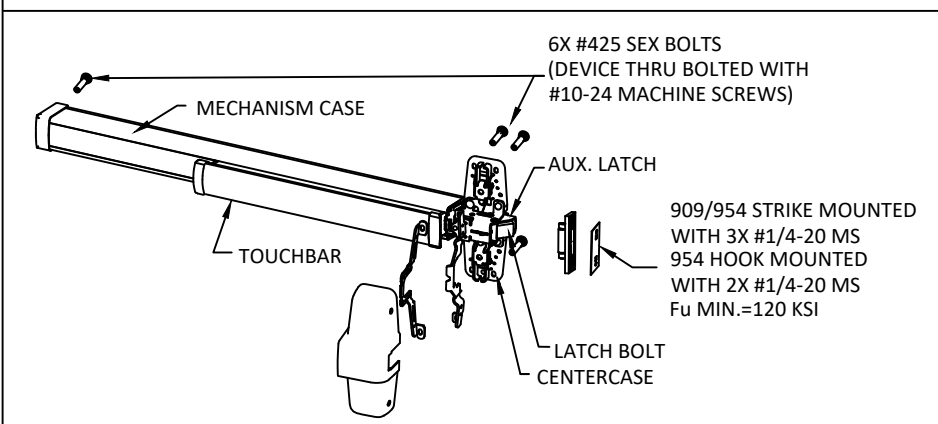
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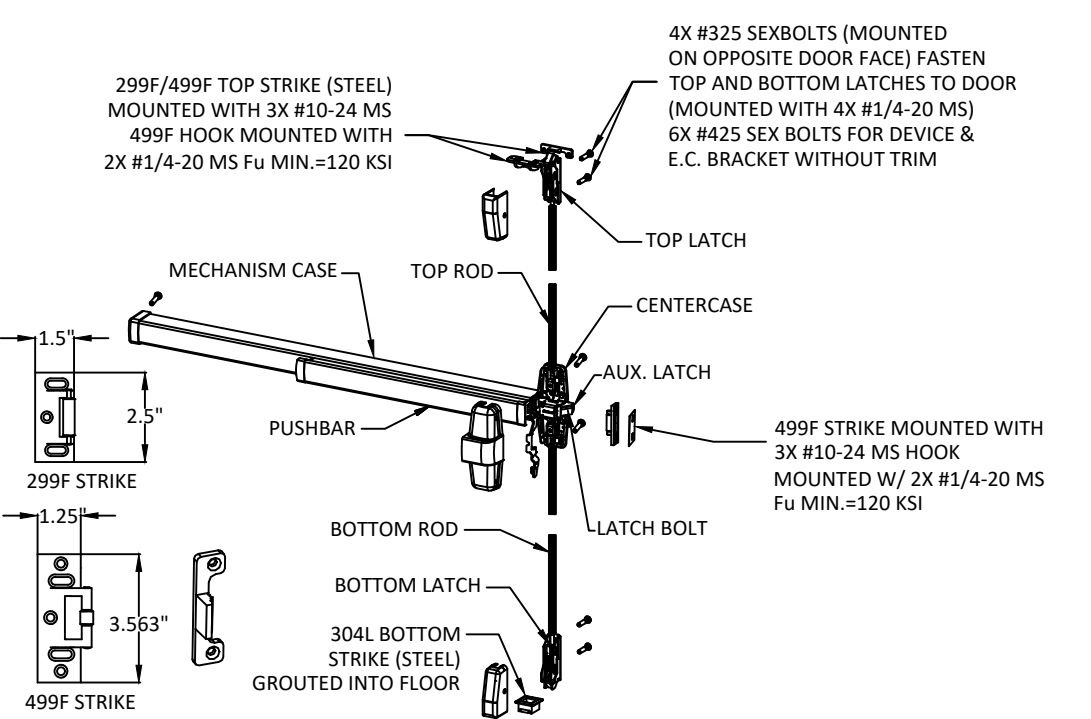
VON DUPRIN 88-F RIM DEVICE
USED IN CONFIGURATION: 4



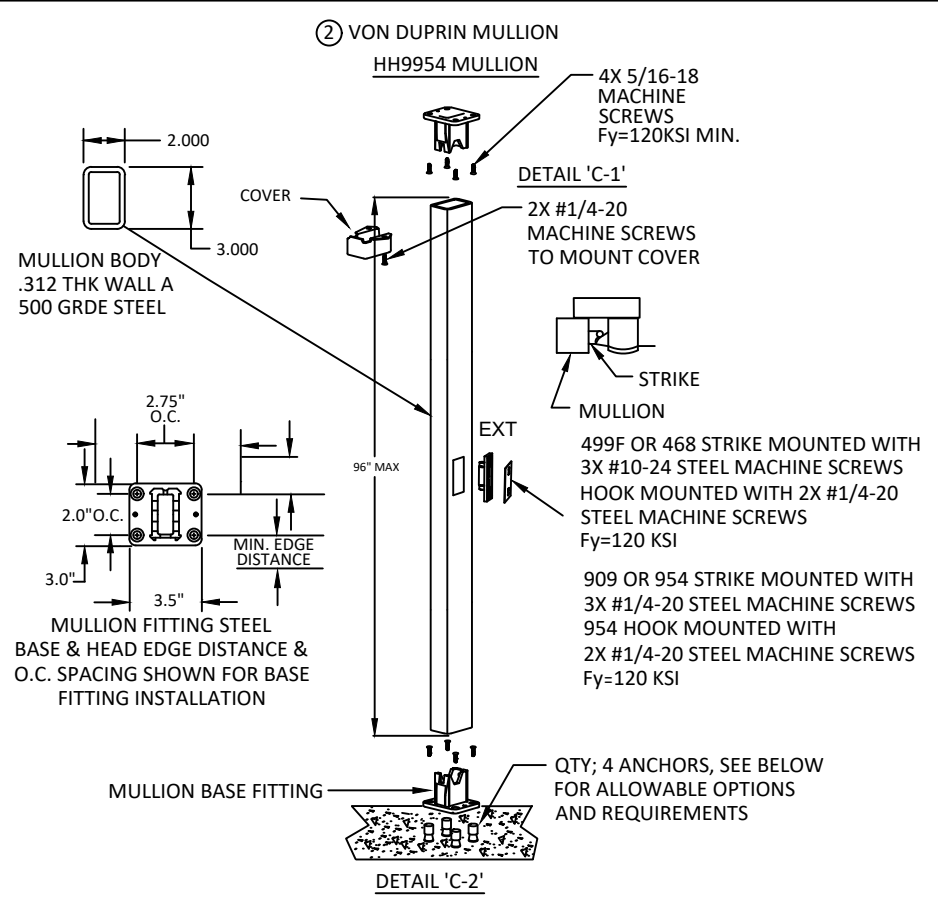
VON DUPRIN 98, 99, 98-F, 99-F, HH78 & HH78-F RIM EXIT DEVICE
USED IN CONFIGURATION: 4



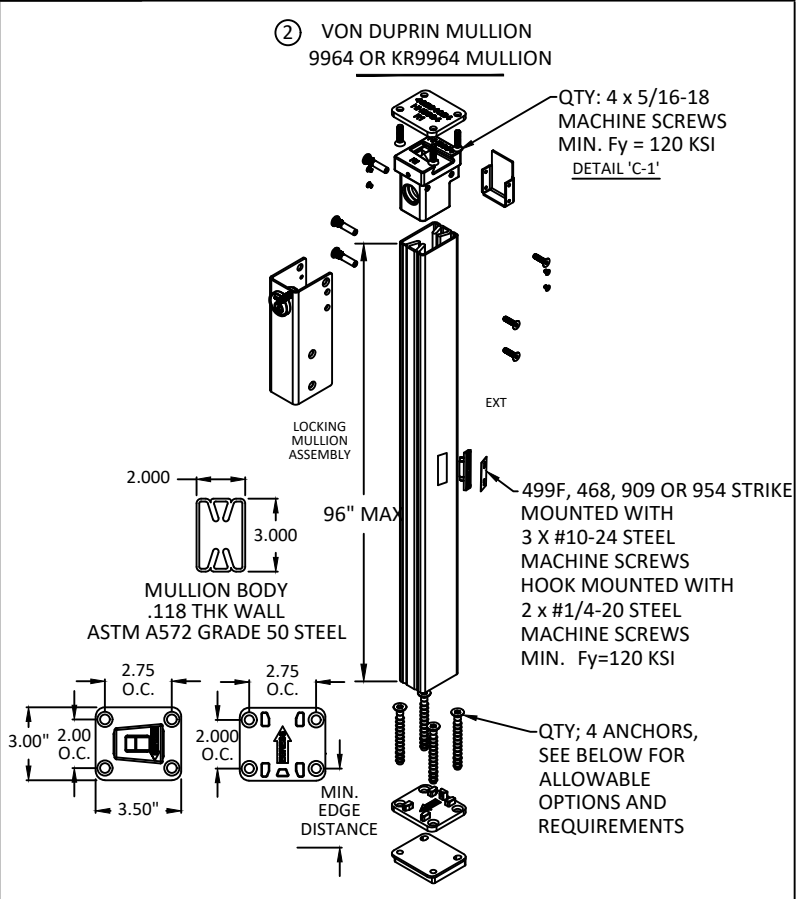
VON DUPRIN XP98, XP99, XP98-F & XP99-F RIM DEVICE
USED IN CONFIGURATION: 4



VON DUPRIN 9857, 9957, 9857-F & 9957-F THREE POINT EXIT DEVICE
USED IN CONFIGURATION: 7



MULLION ANCHOR NOTES: ALLOWABLE ANCHOR TYPES ARE (SEE ABOVE FOR SPACING REQUIREMENTS): 1/4" DEWALT/POWERS SMART DI + EXPANSION ANCHORS WITH 1" MIN EMBEDMENT AND MIN 2.8" EDGE DISTANCE IN 3000 PSI CONCRETE OR 1/4" HILTI KB-TZ2 (CS OR SS) WITH 1-1/2" EMBEDMENT WITH MIN. 3.25" EDGE DISTANCE IN 4000 PSI CONCRETE OR 1/4" CS SIMPSON TITEN HD (316 S.S.) HEAVY-DUTY WITH MINIMUM 2.8" MIN. EDGE DISTANCE IN 3000 PSI CONCRETE



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NOTE:
1. ELECTRIFIED AND FIRE RATED OPTIONS OF APPROVED HARDWARE ARE ACCEPTABLE. INSTALLATION AND APPLICATION IS UNDER SEPARATE APPROVAL AND IS REVIEWED BY THE CORRESPONDING AUTHORITY. FIRE RATING NOT PART OF THIS APPROVAL, CONSULT MANUFACTURER FOR APPROVED CONFIGURATIONS.

EXIT HARDWARE OPTIONS:
1. FOR 98/99, HH78 & XP98/99 SERIES - OPTIONS E, RX, LX, SS, EL, QEL, CX, F, ALK, CD, PN TRIM: ALL APPLICABLE TRIMS AVAILABLE.
2. FOR 88-F SERIES - OPTION E; TRIM: ALL APPLICABLE TRIMS AVAILABLE. PN MODEL OFFERED. TRIM: ALL APPLICABLE TRIMS AVAILABLE.



ALLEGION - SCHLAGE LOCK COMPANY, LLC.
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TITLE: DOUBLE OUTSWING COMMERCIAL
STEEL DOOR SYSTEMS W/ LOUVERS
(HVHZ)(IMPACT)

LOCKING HARDWARE - CONT.

PREPARED BY:

BUILDING DROPS, INC.

1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132

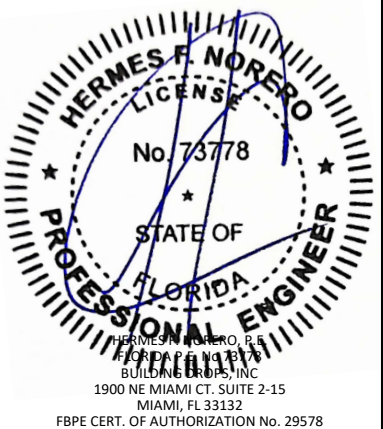
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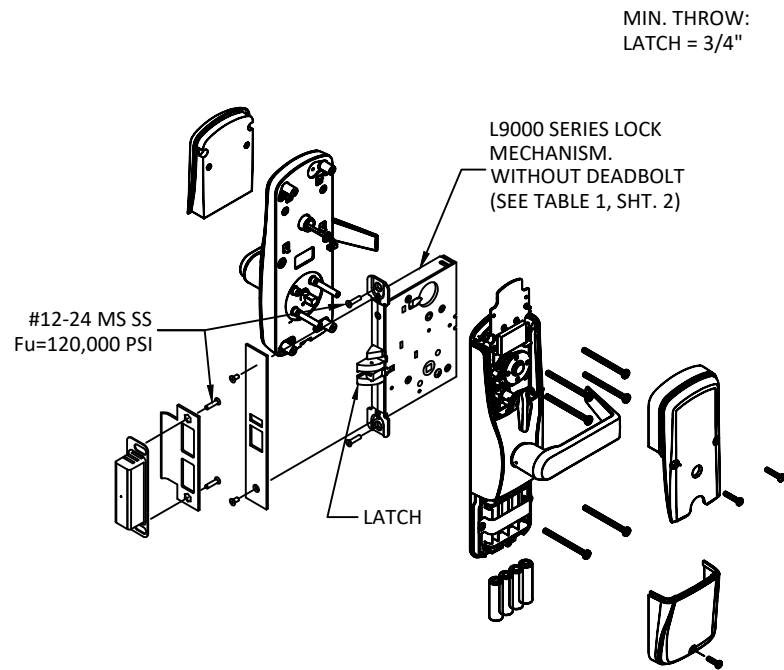
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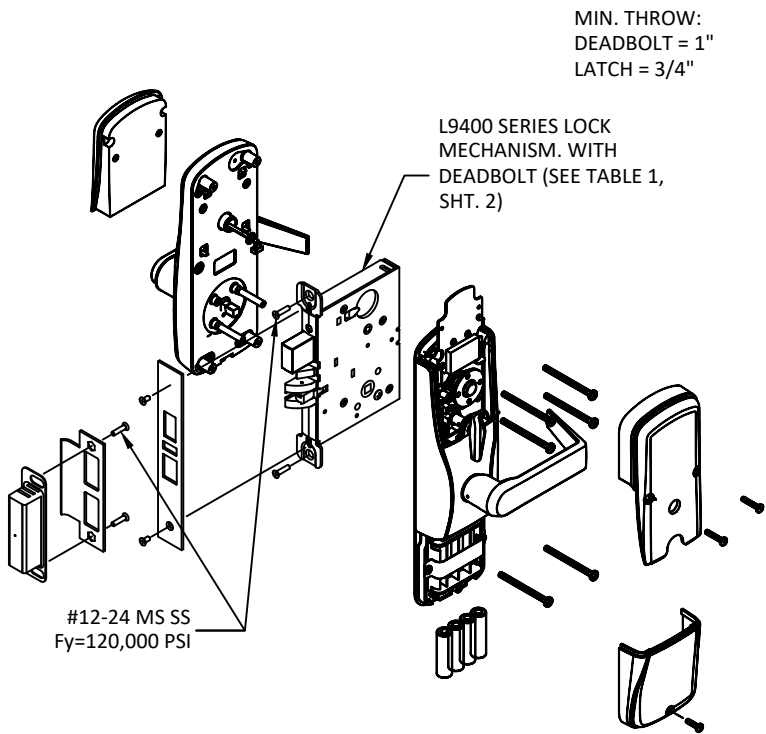
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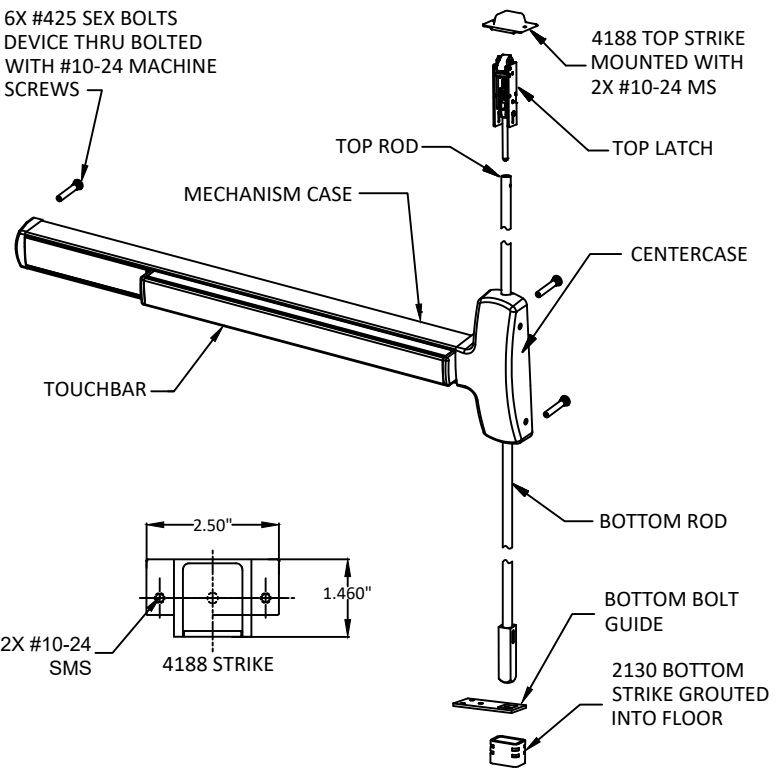
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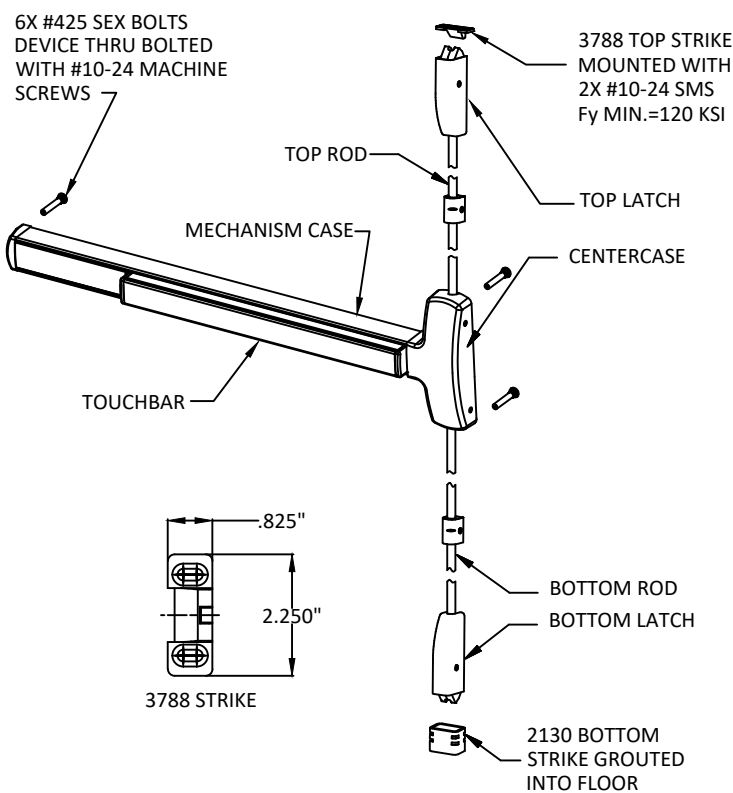
SCHLAGE AD-MS & CO-MS SERIES MORTISE LOCKSET
USED IN CONFIGURATION: 2



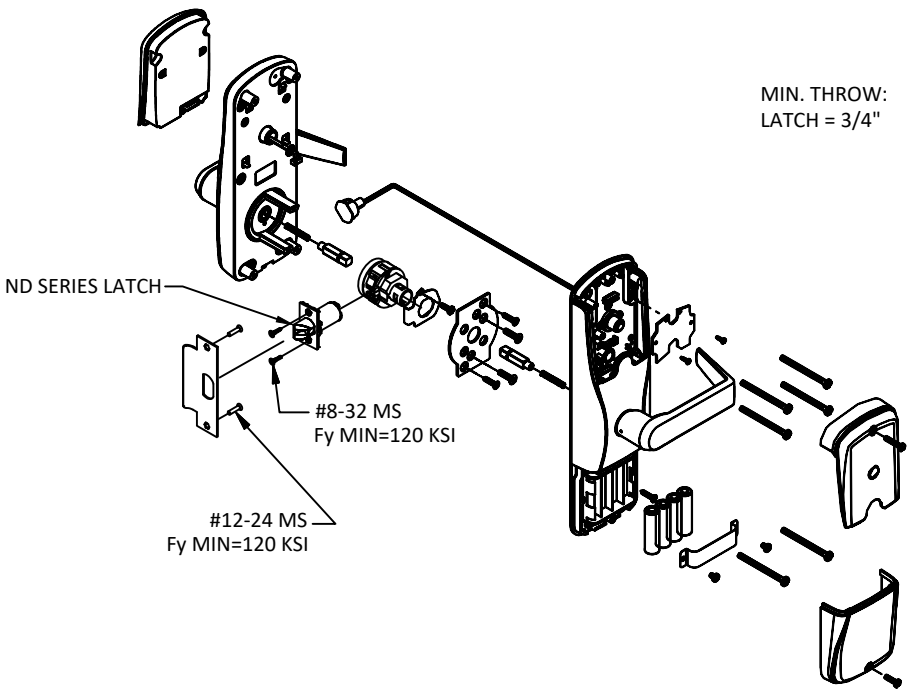
SCHLAGE AD-MD & CO-MD SERIES MORTISE LOCKSET
USED IN CONFIGURATION: 1



FALCON F-25-C CONCEALED VERTICAL ROD EXIT DEVICE
USED IN DOOR CONFIGURATION 6



FALCON 25-V, F-25-V, HH7827 & HH7827-F SURFACE VERTICAL ROD EXIT DEVICE
USED IN DOOR CONFIGURATION 5



SCHLAGE AD-CY & CO-CY SERIES CYLINDRICAL LOCKSET
USED IN CONFIGURATION: 3

NOTE:
1. ELECTRIFIED AND FIRE RATED OPTIONS OF APPROVED HARDWARE ARE ACCEPTABLE. INSTALLATION AND APPLICATION IS UNDER SEPARATE APPROVAL AND IS REVIEWED BY THE CORRESPONDING AUTHORITY. FIRE RATING NOT PART OF THIS APPROVAL, CONSULT MANUFACTURER FOR APPROVED CONFIGURATIONS.

EXIT HARDWARE OPTIONS:
1. F-25-C & (F)25-V SERIES - OPTIONS AE, DM, LM, KOR, MEL, EA, FSA, FSE, CD, RX, LD TRIMS: ALL APPLICABLE TRIMS AVAILABLE.



ALLEGION - SCHLAGE LOCK COMPANY, LLC.
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032
PH: (317) 715-4073

TITLE: DOUBLE OUTSWING COMMERCIAL
STEEL DOOR SYSTEMS W/ LOUVERS
(HVHZ)(IMPACT)

LOCKING HARDWARE - CONT.

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
HINGE UPDATE	SM	02.26.24
MPP/ANCHOR UPDATE	SH	06.14.24
LOCK UPDATE	JA	09.09.24
MISC UPDATE	DI	12.08.25

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CHK. BY:
HFN

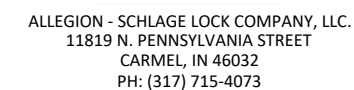
SCALE: NTS

DWG. #: F882W-2D

SHEET:

21

OF 31



**TITLE: DOUBLE OUTSWING COMMERCIAL
STEEL DOOR SYSTEMS W/ LOUVERS
(HVHZ)(IMPACT)**

LOCKING HARDWARE - CONT.

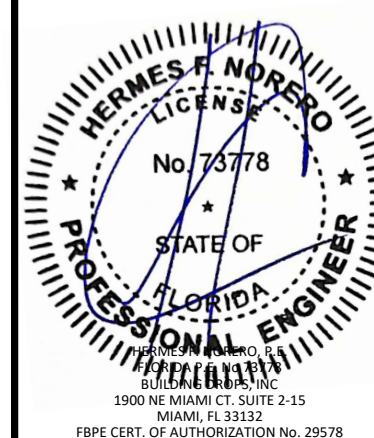
PREPARED BY:

BUILDING DROPS, INC.
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MIAMI, FL 33132
PH: (954) 399-8478
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REMARKS	BY	DATE
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DATE: 04.11.22

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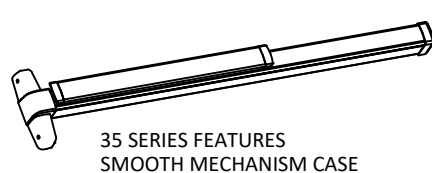
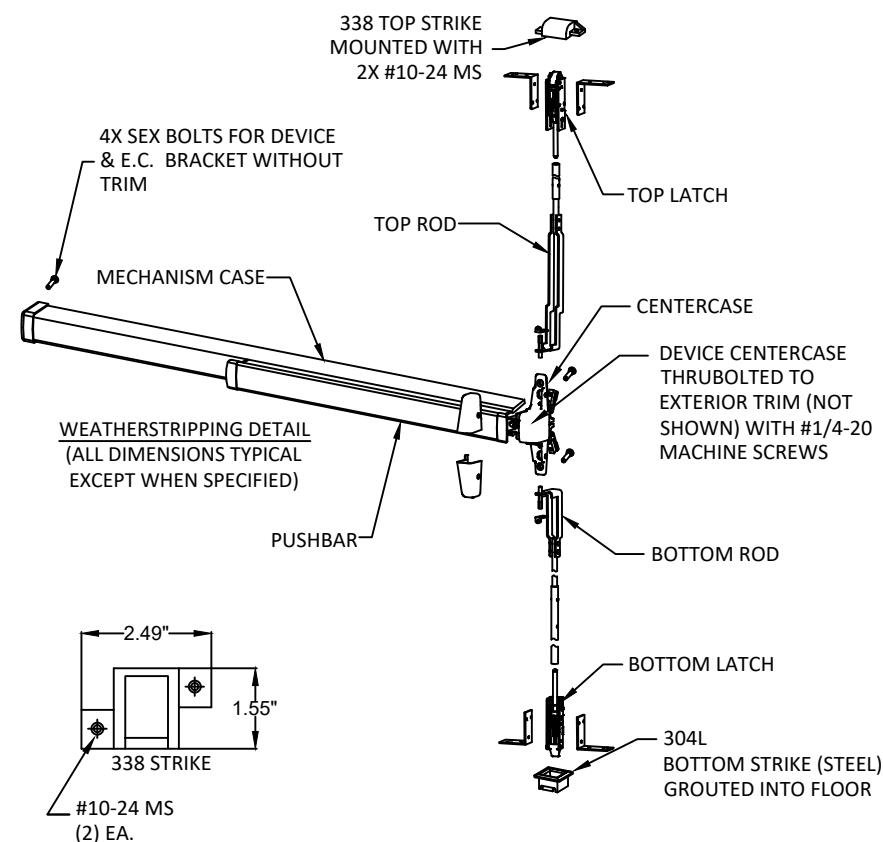
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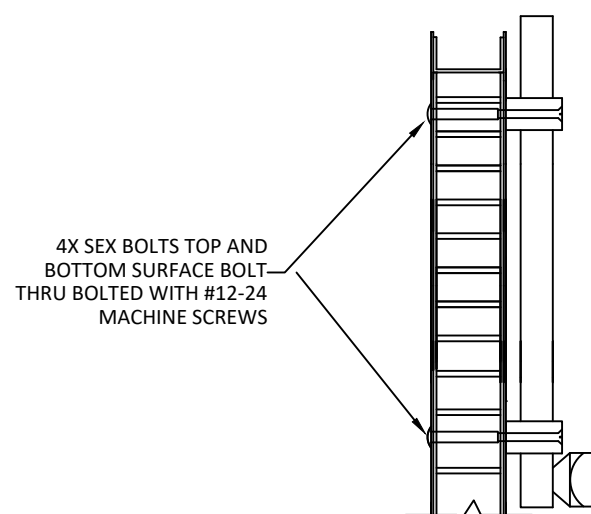
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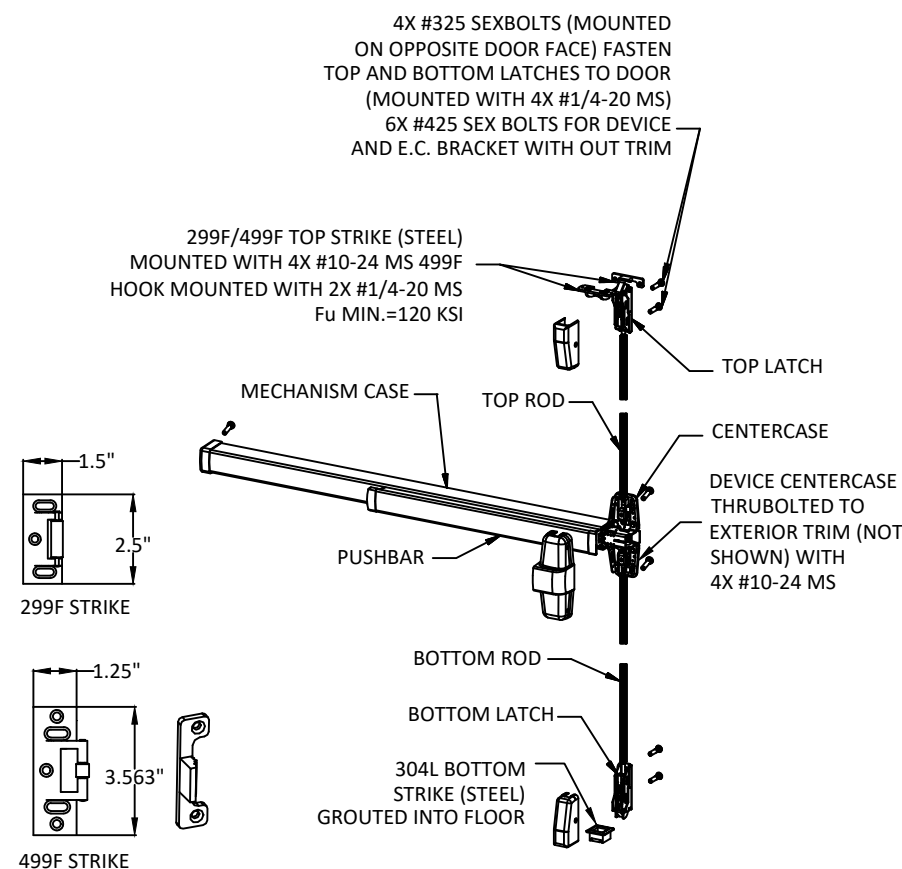
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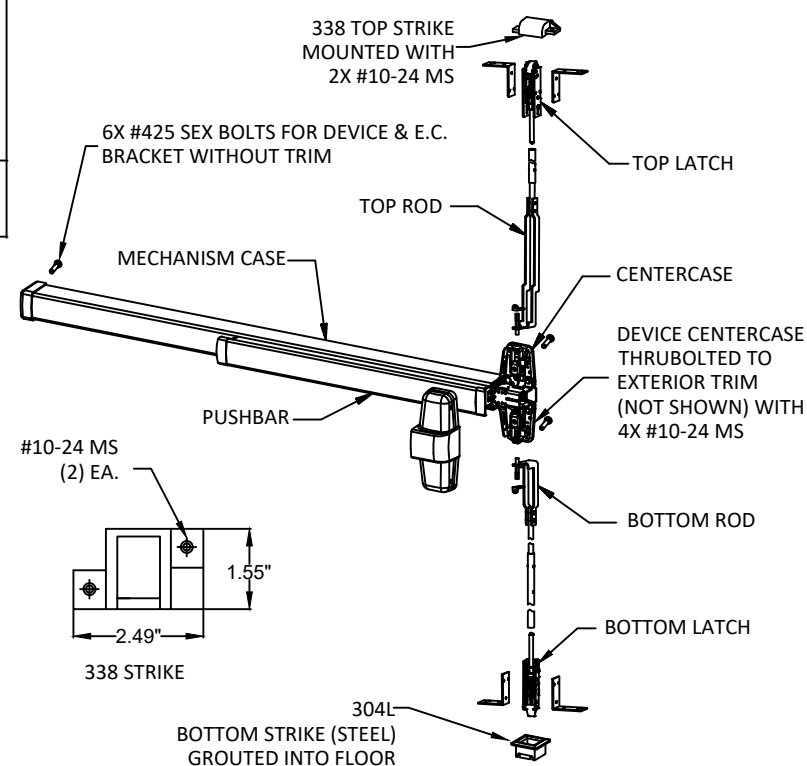
VON DUPRIN 3347-F, 3547A-F, HH3347, HH3547A, HH7547 & HH7547-F
WITH 2-3/4" BACKSET CONCEALED VERTICAL ROD DEVICE
USED IN CONFIGURATION: 6



IVES SURFACE BOLT SB360
USED ON INACTIVE DOOR



VON DUPRIN 9827, 9927, 9827-F, 9927-F, HH7827 & HH7827-F
SURFACE VERTICAL ROD DEVICE
USED IN CONFIGURATION: 5



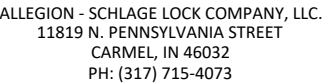
VON DUPRIN 9847-F, 9947-F, HH9847, HH9947, HH7847 & HH7847-F
WITH 2-3/4" BACKSET CONCEALED VERTICAL ROD DEVICE
USED IN CONFIGURATION: 6

NOTE:

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EXIT HARDWARE OPTIONS:

2. FOR 98/99 & HH78 SERIES - OPTIONS E, RX, LX, SS, EL, QEL, CX, F, ALK, CD, PN
TRIM: ALL APPLICABLE TRIMS AVAILABLE.

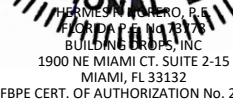


REPUBLIC DOORS: OPENING DIMENSIONS & BOM

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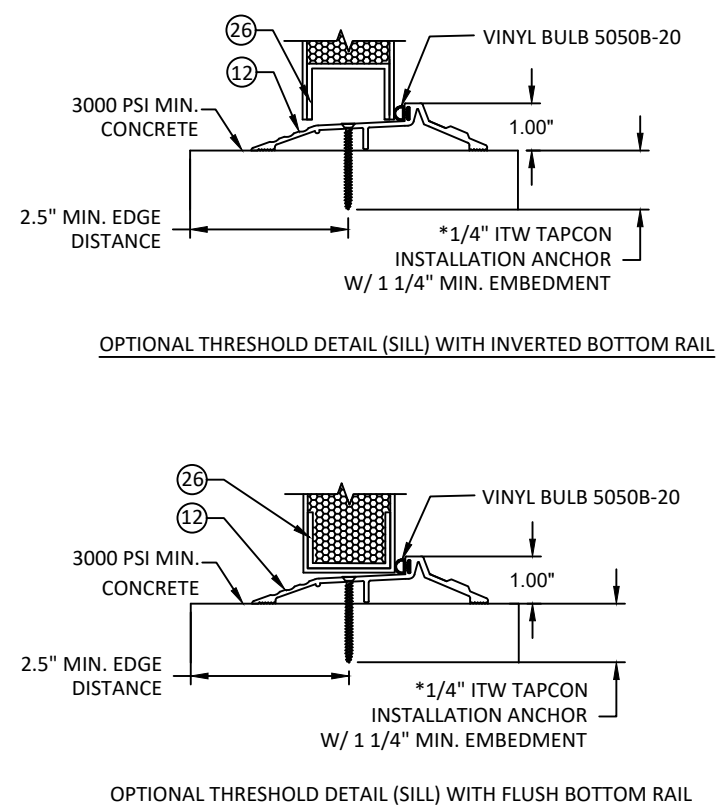
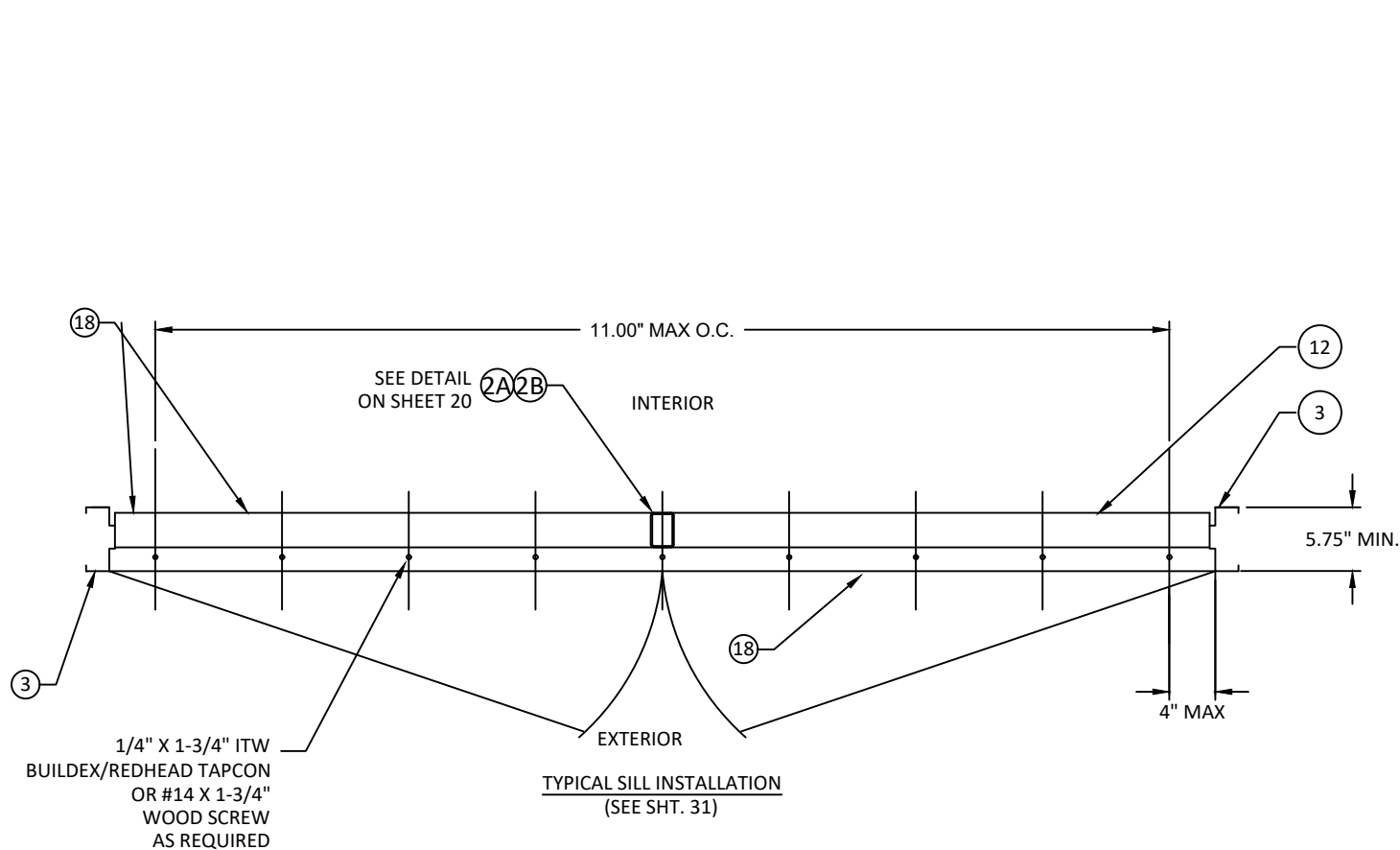
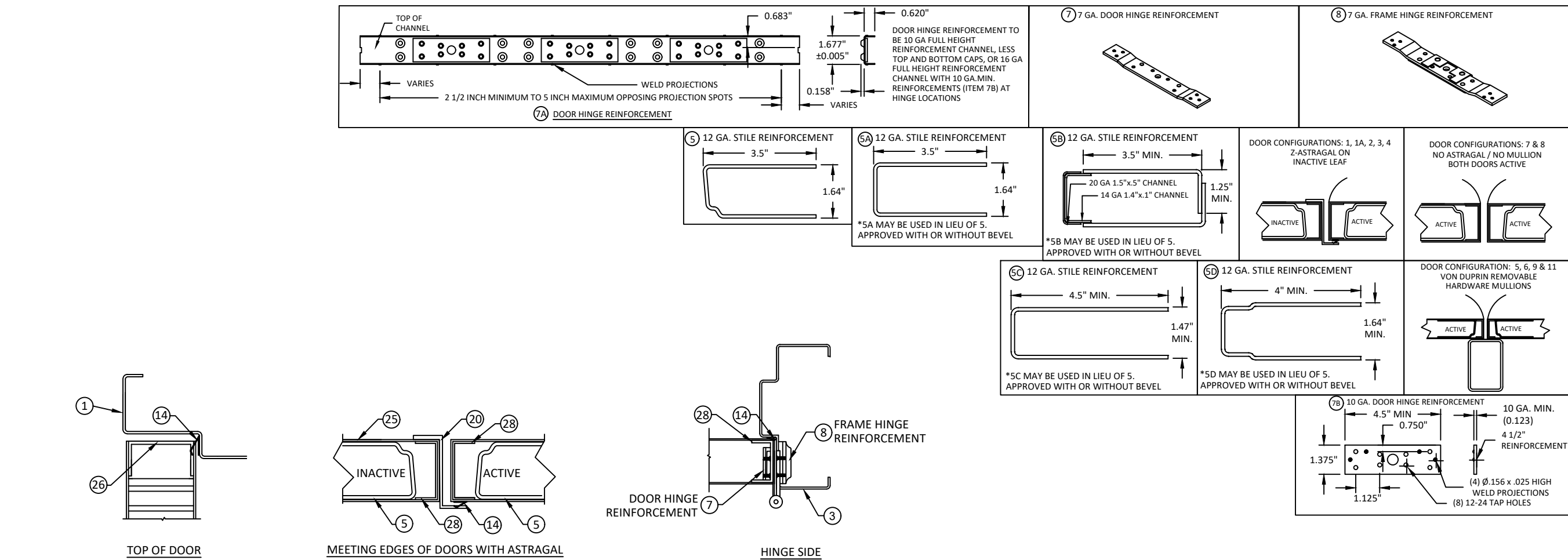
CHK. BY:
HFN

DWG. #: **F882W-2D**

23

OF 31

ITEM	QUANTITY	DESCRIPTION	MATERIAL	SIZE	
1	1	HEAD, SEE SHT. 25	.053" MIN. STL	MAX. 100"	SEE ELEVATION ON SHT. 23
2	1	2A) VON DUPRIN HH9954 HARDWARE MULLION	.312" A500 STL	MAX. 96" HEIGHT	
		2B) VON DUPRIN 9964 OR KR 9964 HARDWARE MULLION	.118" A500 STL		
3	2	HINGE JAMB, SEE SHT. 25	.053" MIN. STL	MAX. 100"	
4	2	FIXED DOOR LOUVER:	-	-	
		NGP/ANEMOSTAT PLSL	SEE SHT. 17	SEE SHT. 17	
		AIR LOUVERS, INC. - 1500-A			
		NATIONAL GUARD PRODUCTS - L-VRS5G-2			
		NGP/ANEMOSTAT FLDL-SG1 OR FLDL-SG2			
5A-D	2	LOCK SIDE REINFORCEMENT CHANNEL	.093" MIN. STL	3.5" X 93.44" MAX.	
6	AS NEEDED	HINGE SIDE PANIC REINFORCEMENT	.067" MIN. STL	MAX. 20"	
7	NOTE 3, SHT. 1	HINGE REINFORCEMENT DOOR	.167" MIN. STL	1.23" X 9.19" MIN.	
7A	NOTE 3, SHT.1	HINGE REINFORCEMENT DOOR	.053" MIN. STL.	1.67" X FULL HEIGHT - END CHANNELS	
7B	NOTE 3, SHT. 1	HINGE REINFORCEMENT DOOR	.123" MIN. STL	1.375" X 9.19" MIN.	
8	NOTE 3, SHT. 1	HINGE REINFORCEMENT FRAME	.167" MIN. STL	1.5" X 9.19" MIN.	
9	NOTE 3, SHT. 1	4.5" MIN. BUTT HINGES (SEE SHT. 16)	.134 MIN.	(8) #12-24 MS PER HINGE	
		OPTIONAL CONTINUOUS HINGE (SEE SHT. 16)	.075" MIN. STL / .110 ALUM.	MAX. 95"	
10	2	CORE MATERIAL:	SEE SHEET 6		
		D) HONEYCOMB C) STEEL STIFFENED			
		A&F) POLYSTYRENE B&F) POLYURETHANE/POLYISOCYANURATE			
		E) MINERAL BOARD TEMPERATURE RISE CORE			
11	2	LOCKING HARDWARE	SEE SHEET 2, TABLE 1		
12	1	THRESHOLD SILL W/BUMPER GASKET		5.0" X 0.5" X 96" MAX	
		12A) 566 BY ZERO SEE SHT. 14	.125" ALUM. 6063 T5		
		12B) 950A BY NGP SEE SHT. 15	.078" ALUM. 6063 T5		
		12C) 65 BY ZERO SEE SHT. 14	0.125" ALUM. 6063 T5		
		12D) 568 BY ZERO SEE SHT. 14	0.125" ALUM. 6063 T5	6.0" X 0.5" X 96" MAX.	
13	NOTE 2, SHT. 1	JAMB ANCHOR	SEE SHTS. 8-12 & 26-30	-	
14	SEE SHT. 14 & 15	14A) PS074 DOOR SEAL	TPE	VARIES	
		14B) 188S, 14C) 117S, 14D)8144S, 14E)8150S, DOOR SEAL ZERO	SILICONE		
15	-	-	-	-	
16	-	-	-	-	
17	1	17A) 328 SPLIT ASTRAGAL BY ZERO INT'L	SEE SHTS. 14 & 15	-	
		17B) 137 SPLIT ASTRAGAL BY NGP			
18	AS NEEDED	CAULK - BUTYL RUBBER OR SILICONE	SEE SHTS. 14 & 15	-	
19	-	-	-	-	
20	1	Z-ASTRAGAL REQUIRED FOR CONFIGS. 1, 2, & 3	.067" MIN. STL	MAX. 95.5"	
21	2	IVES SB360 SURFACE BOLT - TOP & BOTTOM INACTIVE LEAF CONFIG 1, 2, & 3	STEEL	12" MIN. - 24" MAX. LENGTH	
22	1	ASA STRIKE	-	-	
23	AS NEEDED	18 GAUGE LOUVE CUTOUT REINFORCEMENT	SEE SHEET 16	-	
24	AS NEEDED	12 GAUGE MID RAIL REINFORCING CHANNEL	SEE SHEET 16	-	
25	2	DOOR SLAB	SEE SHT. 25	-	
26	4	END CHANNEL (16 GAUGE - INVERTED OR FLUSH)	0.53" MIN. STL.	.62" X 1.66" X 47.66" MAX.	
27	2	STILE REINFORCEMENT (12 GAUGE)	0.093" MIN. STL.	-	
28	4	EDGE CHANNEL REINFORCEMENT	.053" MIN. STL	-	



*NOTE: 803V THRESHOLD MAY BE INSTALLED WITH #12 WOOD SCREW TYPE INSTALLATION ANCHORS WHEN INTO 2X WOOD BUCK SUBSTRATES (MIN. SG= 0.55) WITH MINIMUM 1-1/2" EMBEDMENT AND MINIMUM 3/4" EDGE DISTANCE.



ALLEGION - SCHLAGE LOCK COMPANY, LLC.
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032
PH: (317) 715-4073

TITLE: DOUBLE OUTSWING COMMERCIAL
STEEL DOOR SYSTEMS W/ LOUVERS
(HVHZ)(IMPACT)

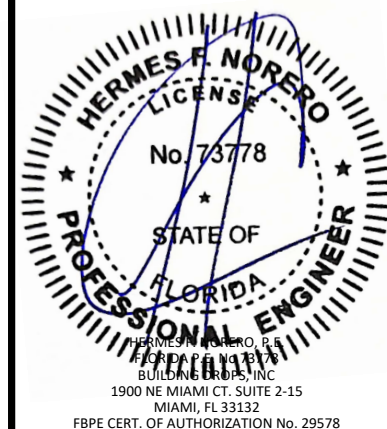
REPUBLIC DOORS: SILL &
REINFORCEMENT DETAILS

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



REMARKS	BY	DATE
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24

OF 31

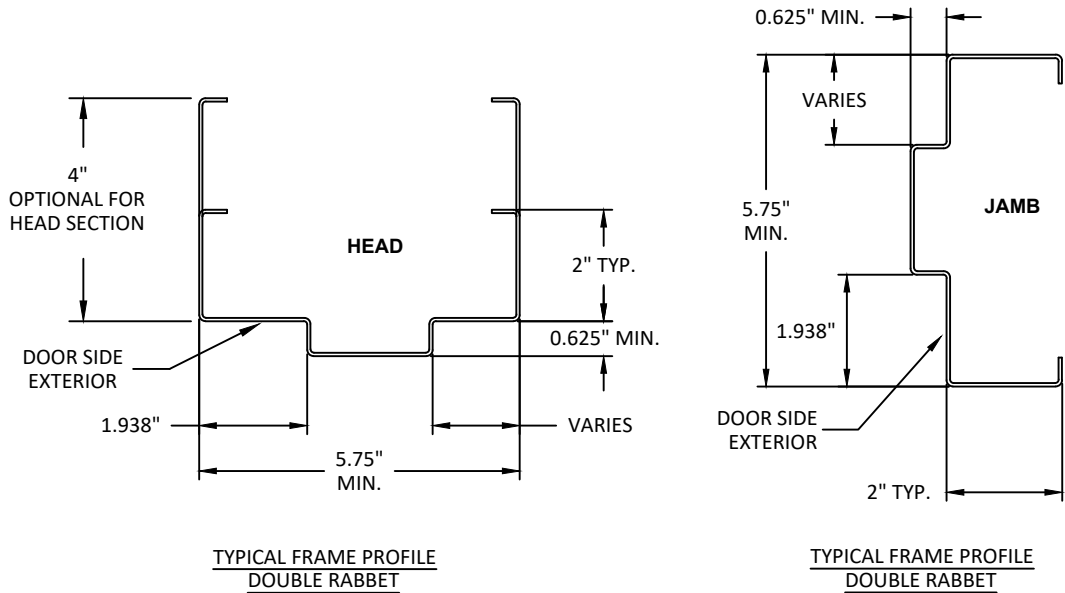
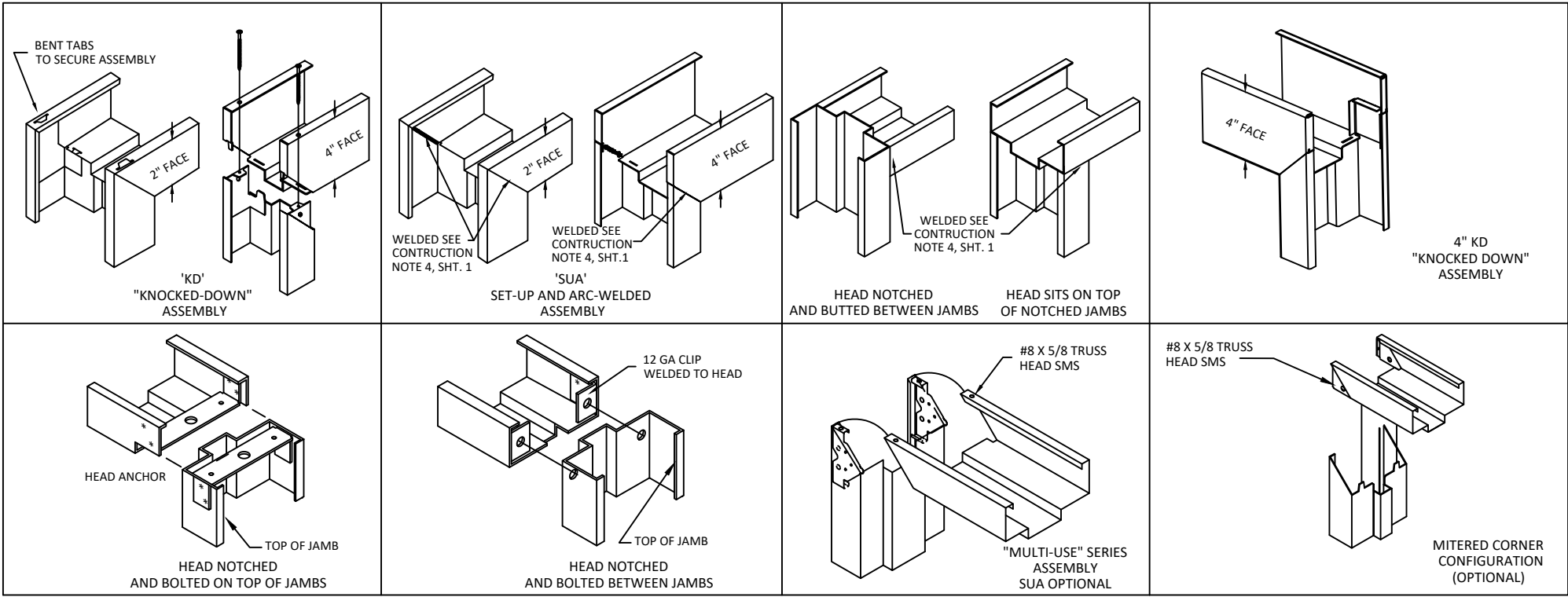


TABLE 8: AVAILABLE REPUBLIC DOOR CONFIGURATIONS

REPUBLIC DOOR SERIES	DOOR CORE MATERIAL PER SHT. 6	MAXIMUM OPENING SIZE		SKIN MATERIAL	
		WIDTH	HEIGHT	DESCR.	GA./MIN. THK
DL	HONEYCOMB POLYSTYRENE POLYURETHANE (POLYISOCYANURATE) TEMPERATURE RISE STEEL STIFFENED	8'-0"	8'-0"	CRS. GALV.	16/.053"
DE		8'-0"	8'-0"	CRS. GALV.	16/.053" 14/.067"

TABLE 9: AVAILABLE REPUBLIC FRAME CONFIGURATIONS

REPUBLIC FRAME SERIES	JAMB DEPTH	MAXIMUM OPENING SIZE		MATERIAL	
		WIDTH	HEIGHT	DESCR.	GA./MIN. THK
ME/SE	5.75" MIN.	8'-0"	8'-0"	CRS/HRS GALV	16/.053" 14/.067"
SE	5.75" MIN.	8'-0"	8'-0"	CRS/HRS GALV	12/.093"

TABLE 10: STEEL MECHANICAL PROPERTIES

MATERIAL	ASTM REF.	YIELD (KSI)	TENSILE (KSI)
CRS	A1008	MIN. 46.0	MIN. 52.0
HRS	A1011		
GALV.	A924/A653		



ALLEGION - SCHLAGE LOCK COMPANY, LLC.
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032
PH: (317) 715-4073

TITLE: DOUBLE OUTSWING COMMERCIAL
STEEL DOOR SYSTEMS W/ LOUVERS
(HVHZ)(IMPACT)

REPUBLIC DOORS: CORNER CONSTRUCTION,
DOOR & FRAME DETAILS

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
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FAX: (954) 744-4738
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BUILDING DROPS

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

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DATE: 04.11.22

DWG. BY: CPA CHK. BY: HFN

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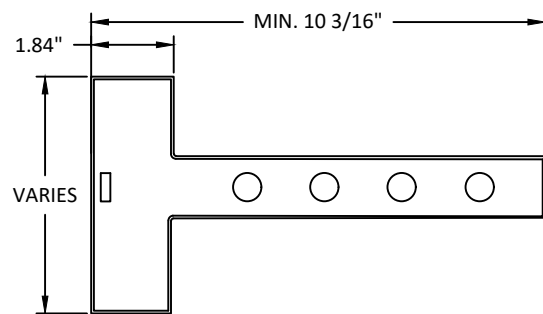
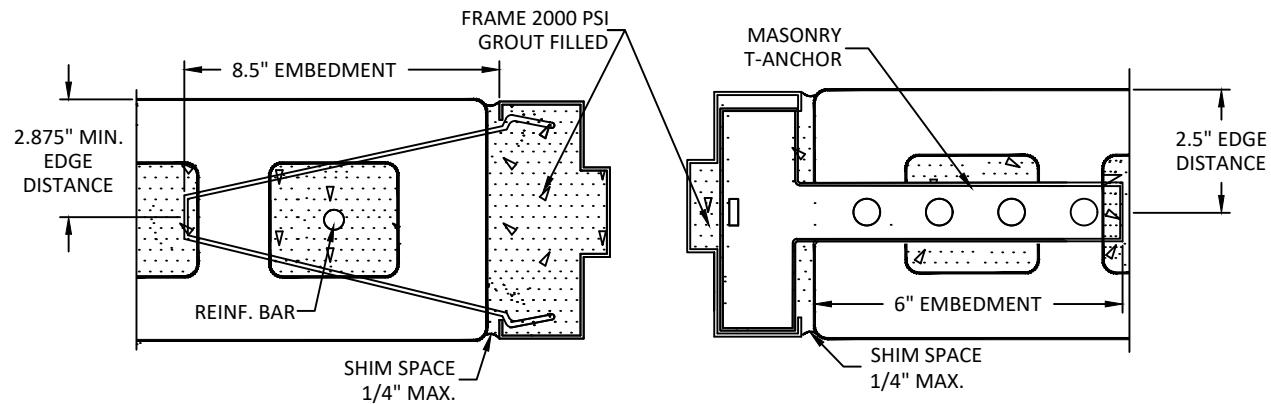
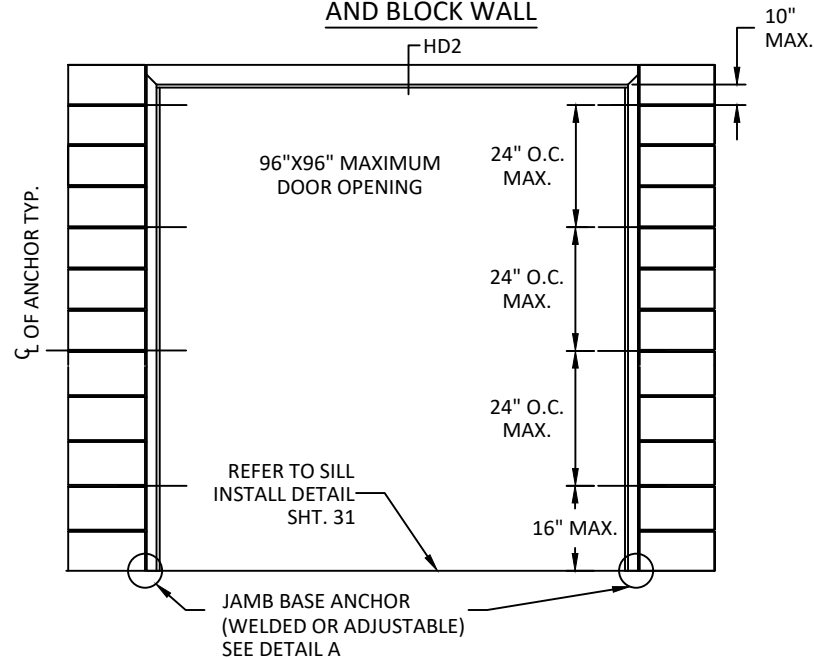
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25
OF 31

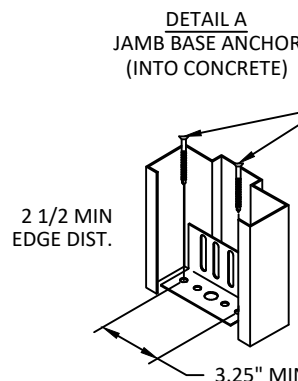
1A

WIRE OR T MASONRY ANCHOR
INTO GROUT FILLED
FRAME AND BLOCK WALL



NOTES:

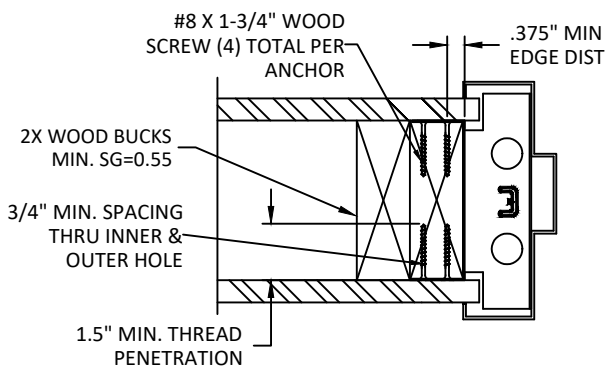
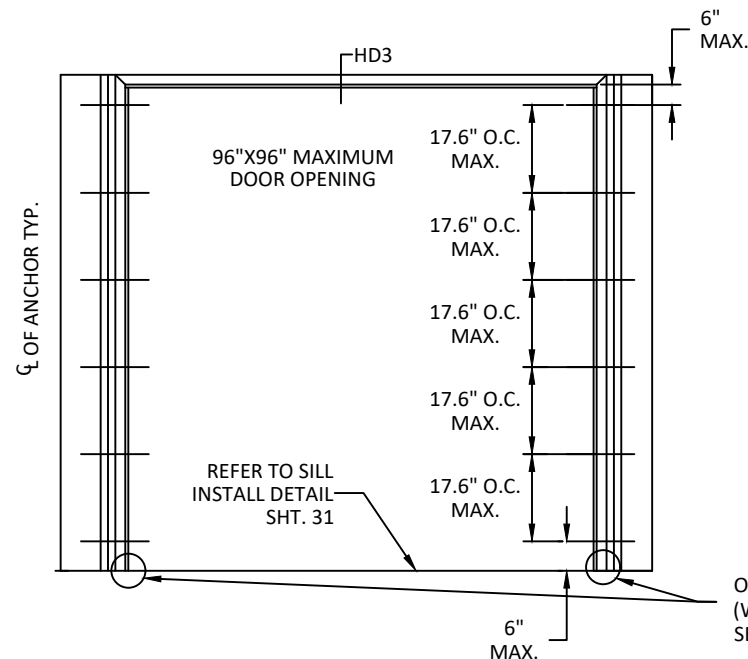
- 1.(*)WOOD OR (*)STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY AT LEAST 250 #/FT. LOAD FOR ASSEMBLIES RATED @60 PSF WHICH SHOULD BE VERIFIED BY THE APPROPRIATE OFFICIAL.
- 2.NUMBER OF ANCHORS FOR VARIOUS OPENING HEIGHTS IS LIMITED BY MAXIMUM DISTANCE BETWEEN ANCHORS, SHOWN ON THIS SHEET.
- 3.SEAL ALL JOINTS WHERE FRAME MEETS WALL WITH BUTYL RUBBER OR SILICONE CAULK.
- 4.INSTALL THRESHOLD INTO BEAD OF BUTYL RUBBER OR SILICONE CAULK FULL LENGTH OF SILL.
- 5.THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS. IF INSTALLATION DEVIATES FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE DOCUMENTS FOR REVIEW AND APPROVAL BY THE LOCAL AHJ.



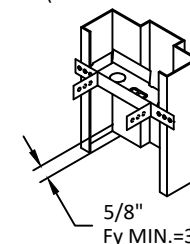
(3 KSI MIN.)
Ø0.375" WITH 2"
MIN. EMBEDMENT
DEWALT/POWERS
POWER BOLT,
DEWALT/POWERS LOK
BOLT AS.
HILTI HLC-FPH SLEEVE
ANCHOR, SIMPSON
STRONG TIE
SLEEVE-ALL OR 3/8"
LAG BOLT INTO (2) 2X
WOOD SILL (SG=0.55)

2A

WOOD STUD ANCHOR

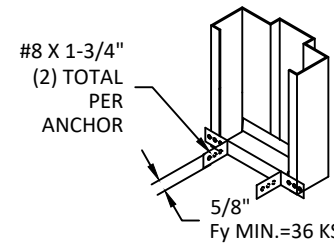


WOOD STUD OR UNIVERSAL ANCHOR
(LOCK-IN OR WELD-IN)



*WOOD STUD WALLS
SEE NOTE 11, SHT. 1

DETAIL B
JAMB BASE ANCHOR
(WELDED OR ADJUSTABLE)



SEE PAGE 8 FOR
OPTION 1 ANCHOR DETAILS

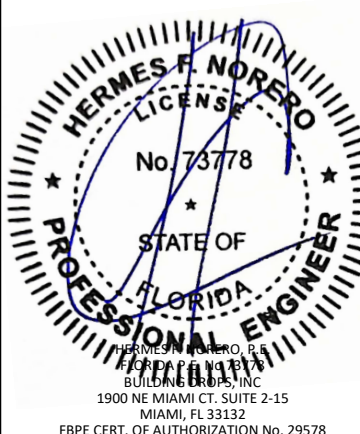


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CARMEL, IN 46032
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TITLE: DOUBLE OUTSWING COMMERCIAL
STEEL DOOR SYSTEMS W/ LOUVERS
(HVHZ)(IMPACT)
REPUBLIC DOORS:
ANCHORS - WIRE OR T MASONRY ANCHOR
& WOOD STUD: REPUBLIC OPTIONS
PREPARED BY:
BUILDING DROPS, INC.
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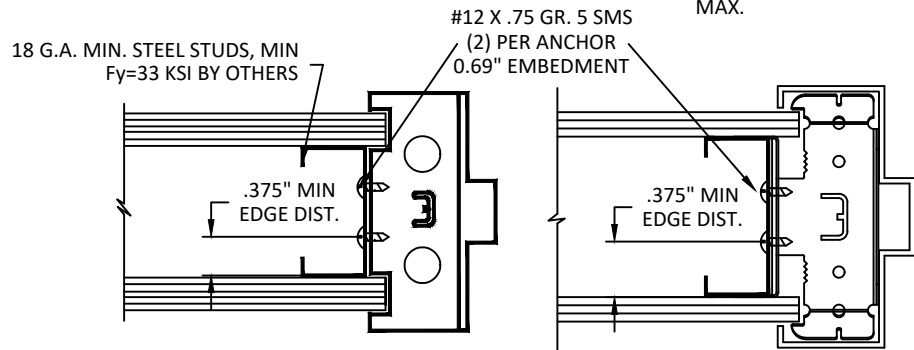
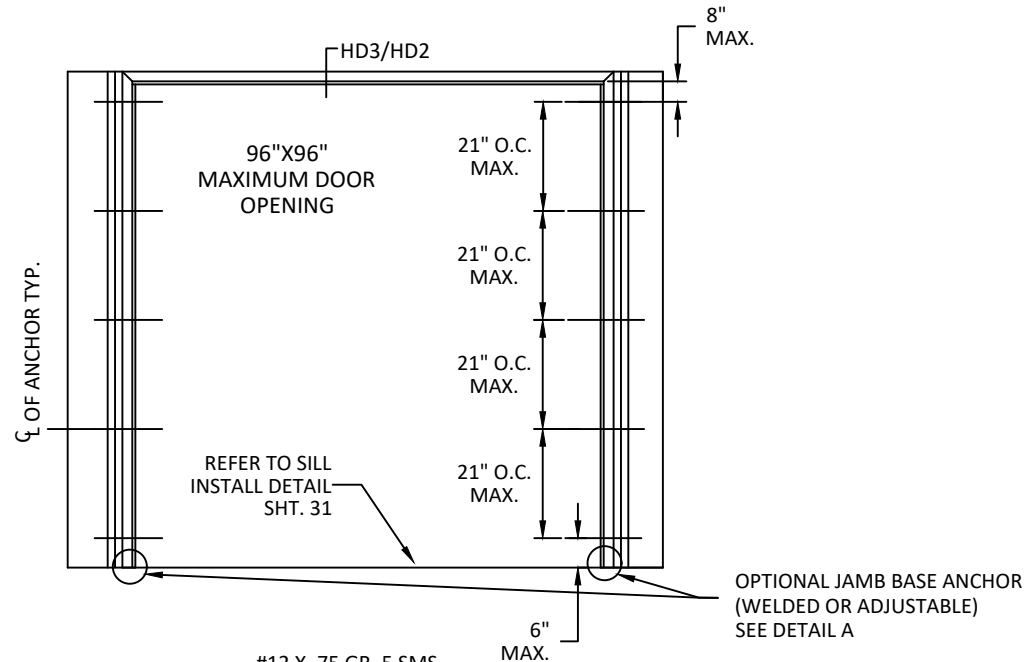
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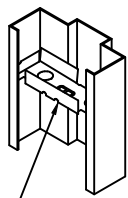
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CHK. BY:	HFN
SCALE:	NTS
DWG. #:	F882W-2D
SHEET:	26

3A STEEL STUD ANCHOR

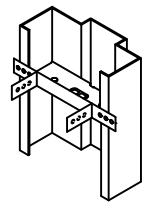


STEEL STUD ANCHOR
WELD-IN OR LOCK-IN



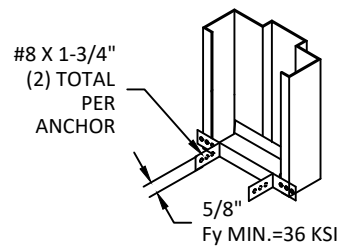
F_y MIN.=36 KSI

UNIVERSAL ANCHOR
WELD-IN OR LOCK-IN

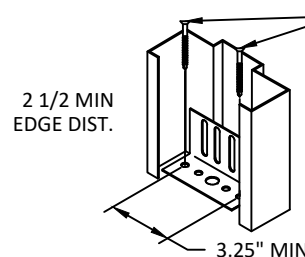


*STEEL STUD WALLS
SEE NOTE 11, SHT. 1

DETAIL BA2
JAMB BASE ANCHOR
(WELDED OR ADJUSTABLE)

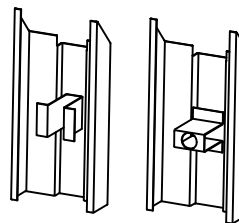
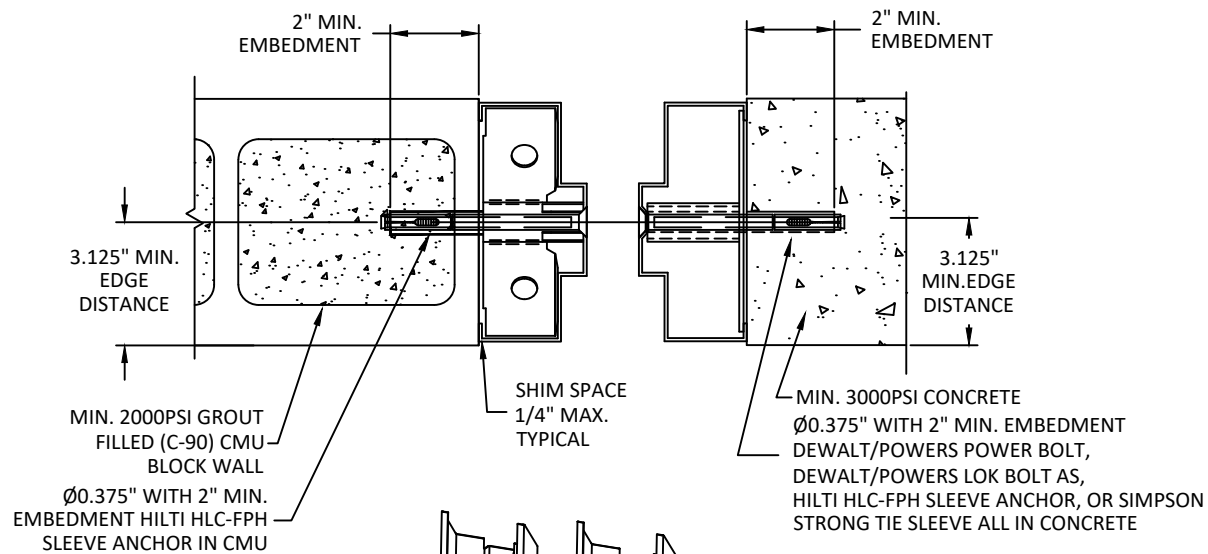
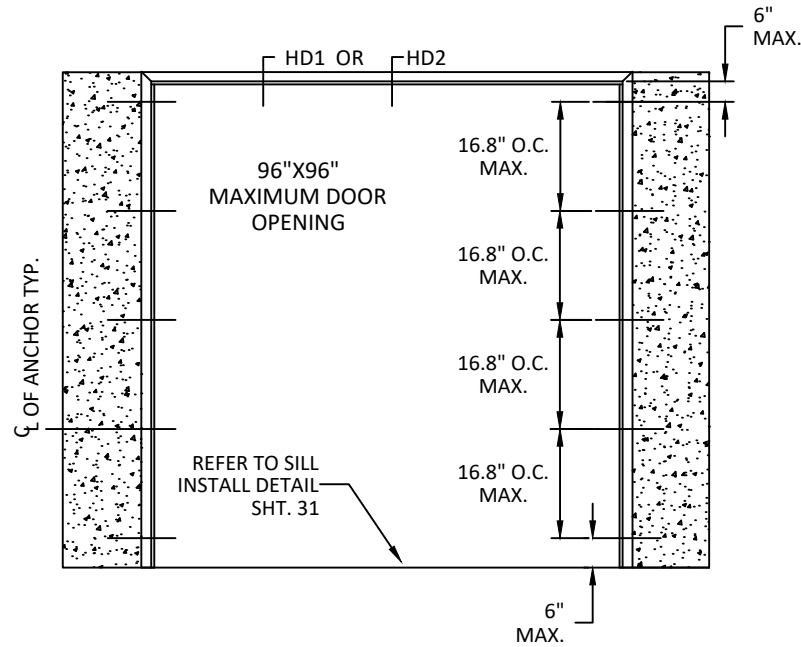


DETAIL A
JAMB BASE ANCHOR
(INTO CONCRETE)

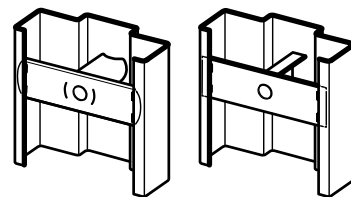


(3 KSI MIN.)
Ø0.375\"/>

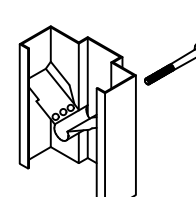
4A PREPARED OPENING ANCHOR (POA) INTO CONCRETE WALL OR CMU



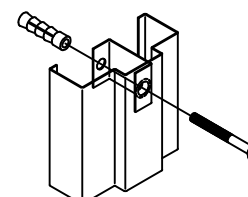
POA ANCHOR



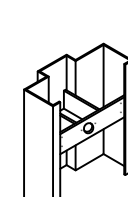
TUBE/CHANNEL &
PLATE BOLT-IN



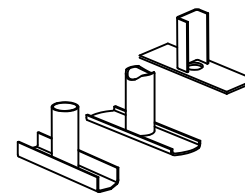
LOCK-IN



POA ANCHOR



TUBE AND STRAP



TUBE & PLATE
WELD-IN EMA
ANCHOR

NOTES:
1.(*)WOOD OR (*)STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY AT LEAST 250 #/FT. LOAD FOR ASSEMBLIES RATED @60 PSF WHICH SHOULD BE VERIFIED BY THE APPROPRIATE OFFICIAL.
2.NUMBER OF ANCHORS FOR VARIOUS OPENING HEIGHTS IS LIMITED BY MAXIMUM DISTANCE BETWEEN ANCHORS, SHOWN ON THIS SHEET.
3.SEAL ALL JOINTS WHERE FRAME MEETS WALL WITH BUTYL RUBBER OR SILICONE CAULK.
4.INSTALL THRESHOLD INTO BEAD OF BUTYL RUBBER OR SILICONE CAULK FULL LENGTH OF SILL.
5.THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS. IF INSTALLATION DEVIATES FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE DOCUMENTS FOR REVIEW AND APPROVAL BY THE LOCAL AHJ.

SEE PAGES 9 FOR
OPTION 1 ANCHOR DETAILS



ALLEGION - SCHLAGE LOCK COMPANY, LLC.
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032
PH: (317) 715-4073

TITLE: DOUBLE OUTSWING COMMERCIAL
STEEL DOOR SYSTEMS W/ LOUVERS
(HVHZ)(IMPACT)

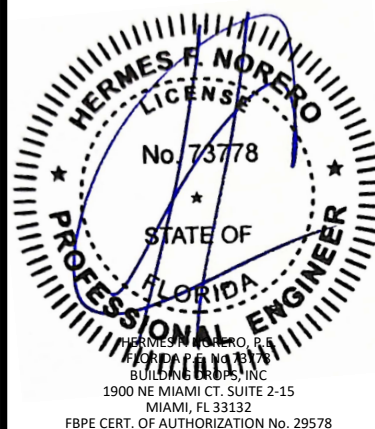
REPUBLIC DOORS: ANCHORS - STEEL STUD
& EMA INTO CONCRETE OR CMU

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



REMARKS	BY	DATE
HINGE UPDATE	SM	02.26.24
MPP/ANCHOR UPDATE	SH	06.14.24
LOCK UPDATE	JA	09.09.24
MISC UPDATE	DI	12.08.25

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DWG. BY:
CPA

CHK. BY:
HFN

SCALE: NTS

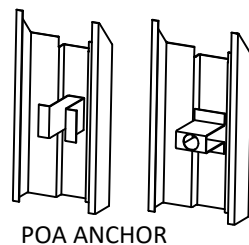
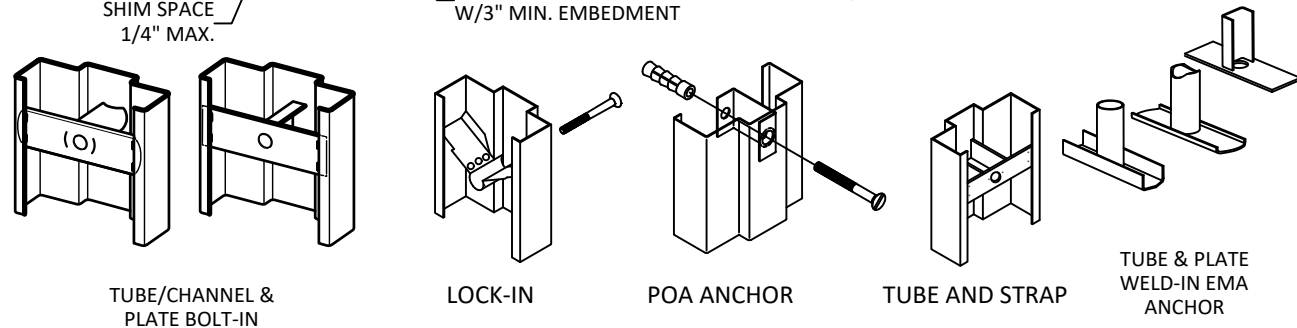
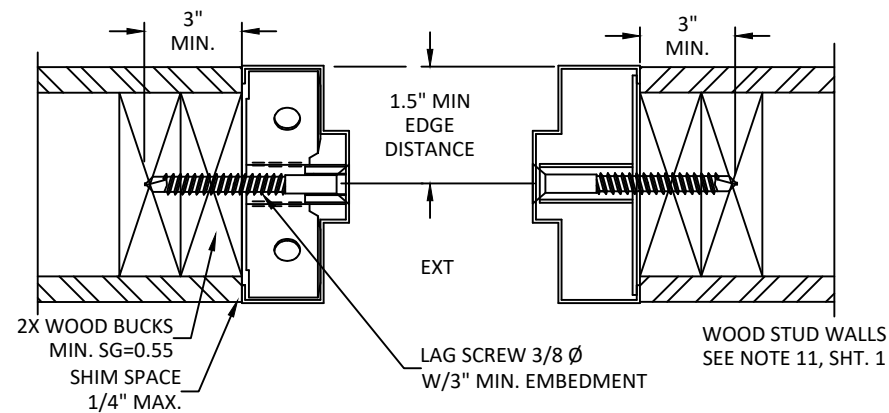
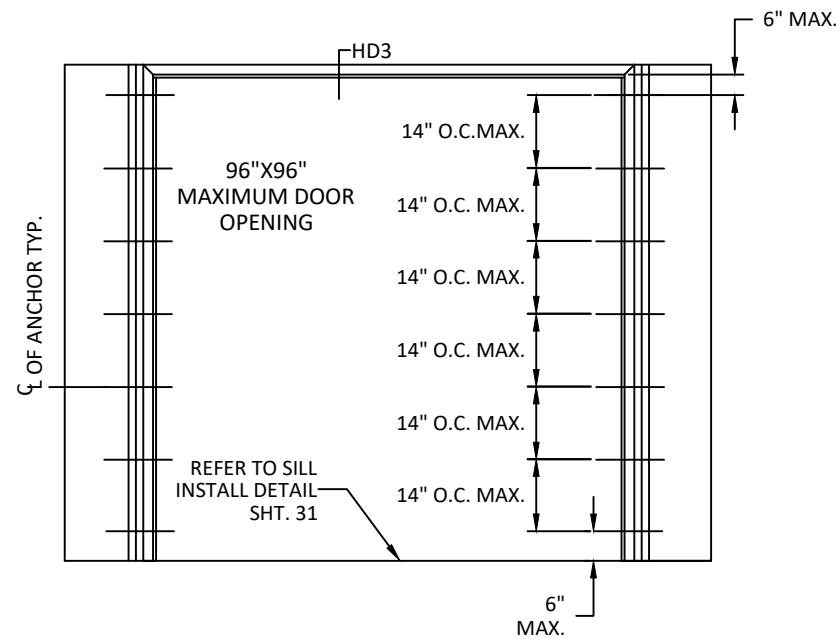
DWG. #: F882W-2D

SHEET:

27

OF 31

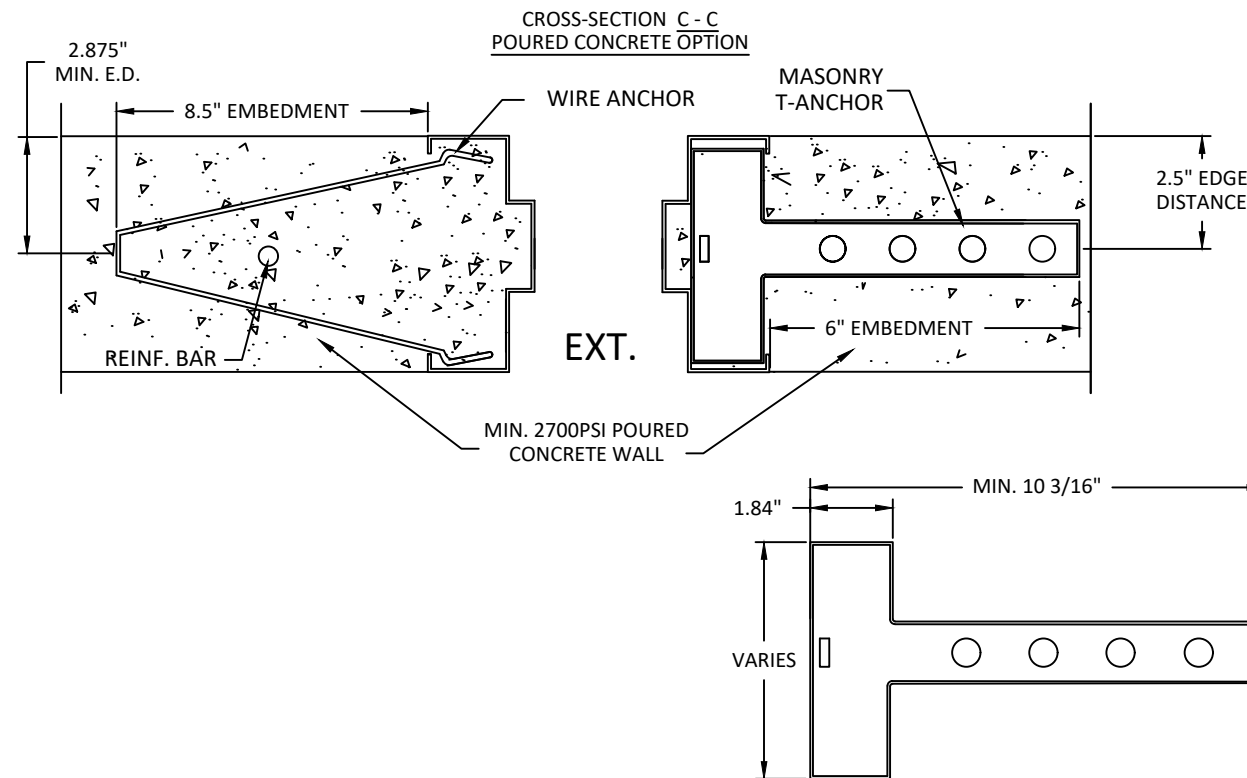
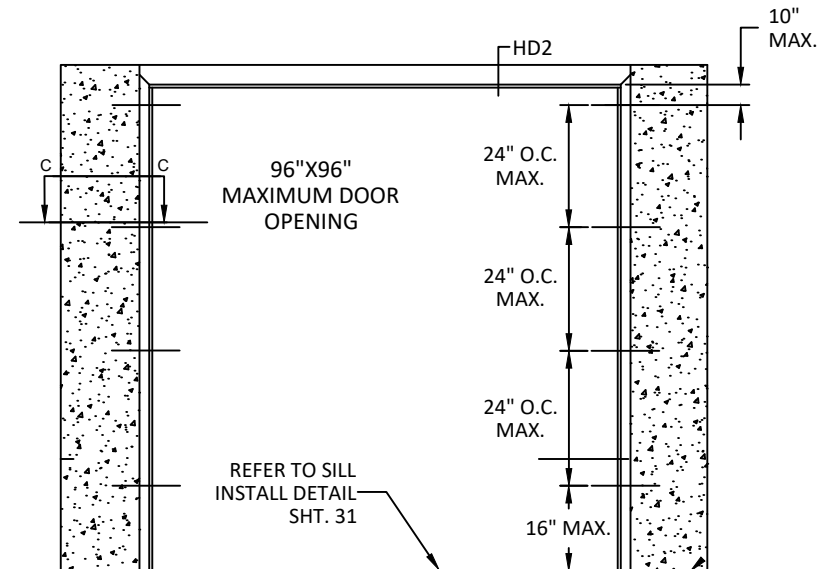
5A PREPARED OPENING ANCHOR (POA) WITH LAG BOLT INTO WOOD STUD WALL



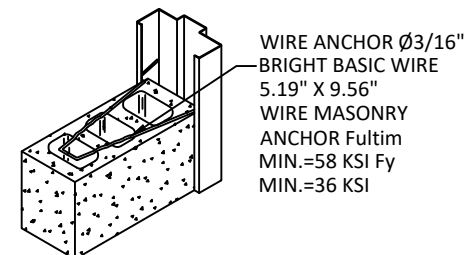
NOTE:
1. 3/8" LAG SCREWS TO BE MIN. SAE GRADE 2 OR EQUIVALENT.

6A POURED CONCRETE TILT UP WALL

SEE PAGES 10 FOR OPTION 1 ANCHOR DETAILS



MASONRY BLOCK WALLS
CMU (C-90) 2000 PSI
GROUT FILLED



MASONRY
T-ANCHOR

NOTES:
1.(*)WOOD OR (*)STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY AT LEAST 250 #/FT. LOAD FOR ASSEMBLIES RATED @60 PSF WHICH SHOULD BE VERIFIED BY THE APPROPRIATE OFFICIAL.
2.NUMBER OF ANCHORS FOR VARIOUS OPENING HEIGHTS IS LIMITED BY MAXIMUM DISTANCE BETWEEN ANCHORS, SHOWN ON THIS SHEET.
3.SEALED ALL JOINTS WHERE FRAME MEETS WALL WITH BUTYL RUBBER OR SILICONE CAULK.
4.INSTALL THRESHOLD INTO BEAD OF BUTYL RUBBER OR SILICONE CAULK FULL LENGTH OF SILL.
5.THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS. IF INSTALLATION DEVIATES FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE DOCUMENTS FOR REVIEW AND APPROVAL BY THE LOCAL AHJ.

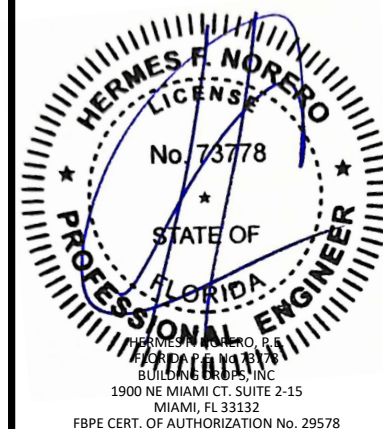


ALLEGION - SCHLAGE LOCK COMPANY, LLC.
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032
PH: (317) 715-4073

TITLE: DOUBLE OUTSWING COMMERCIAL
STEEL DOOR SYSTEMS W/ LOUVERS
(HVHZ)(IMPACT)
REPUBLIC DOORS: ANCHORS -
EMA W/ LAG BOLT IN WOOD STUD WALL
& POURED CONCRETE TILT UP WALL
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
HINGE UPDATE	SM	02.26.24
MPP/ANCHOR UPDATE	SH	06.14.24
LOCK UPDATE	JA	09.09.24
MISC UPDATE	DI	12.08.25

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DATE: 04.11.22

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CHK. BY: HFN

SCALE: NTS

DWG. #: F882W-2D

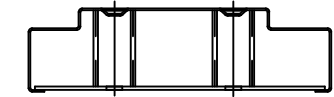
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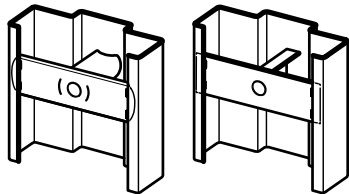
OF 31

SEE PAGES 11 FOR
OPTION 1 ANCHOR DETAILS

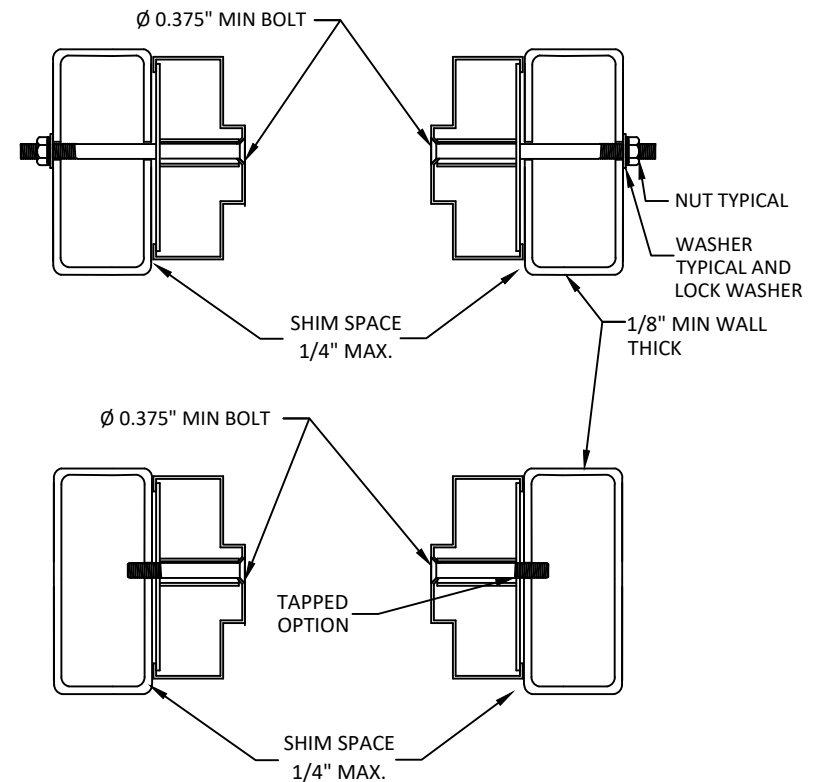
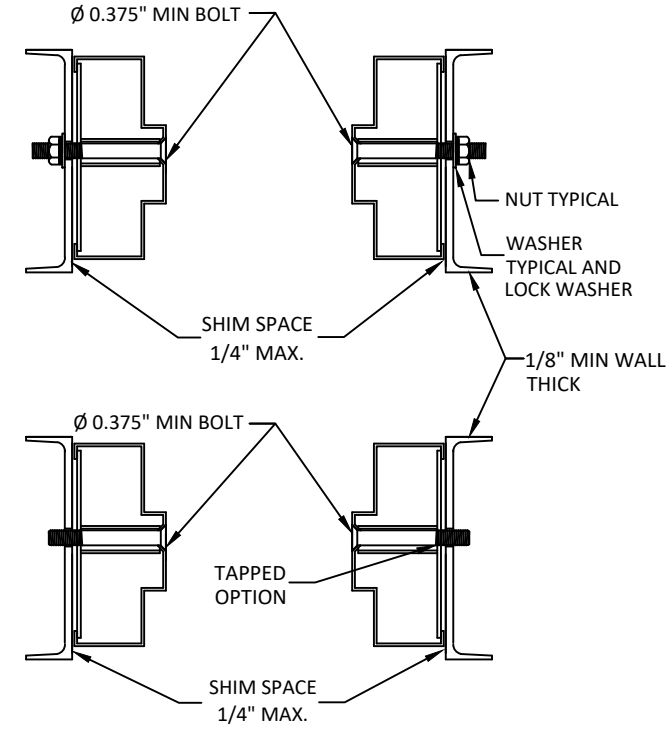
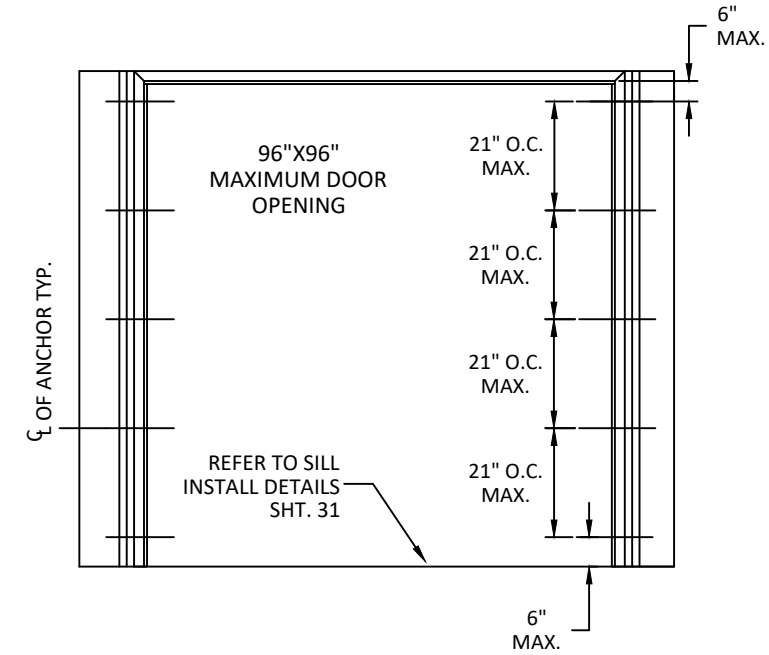
7 FRAMES BOLTED TO BUILDING STRUCTURE



9 1/4" JAMB DEPTH AND ABOVE
REQUIRES 2 ANCHOR BOLTS



TUBE/CHANNEL &
PLATE BOLT-IN



NOTE:
1. 3/8" BOLTS AND NUTS TO BE MIN. SAE GRADE 2 OR
EQUIVALENT.

NOTES:
1. (*)WOOD OR (*)STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD
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11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032
PH: (317) 715-4073

TITLE: DOUBLE OUTSWING COMMERCIAL
STEEL DOOR SYSTEMS W/ LOUVERS
(HVHZ)(IMPACT)

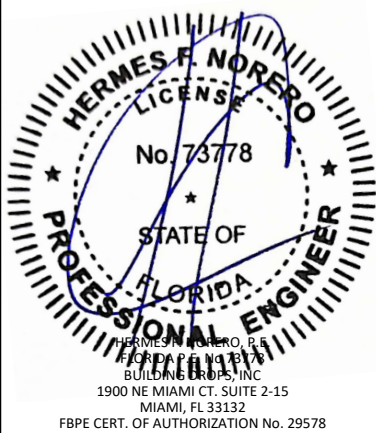
REPUBLIC DOORS: ANCHORS - FRAMES
BOLTED TO BUILDING STRUCTURE

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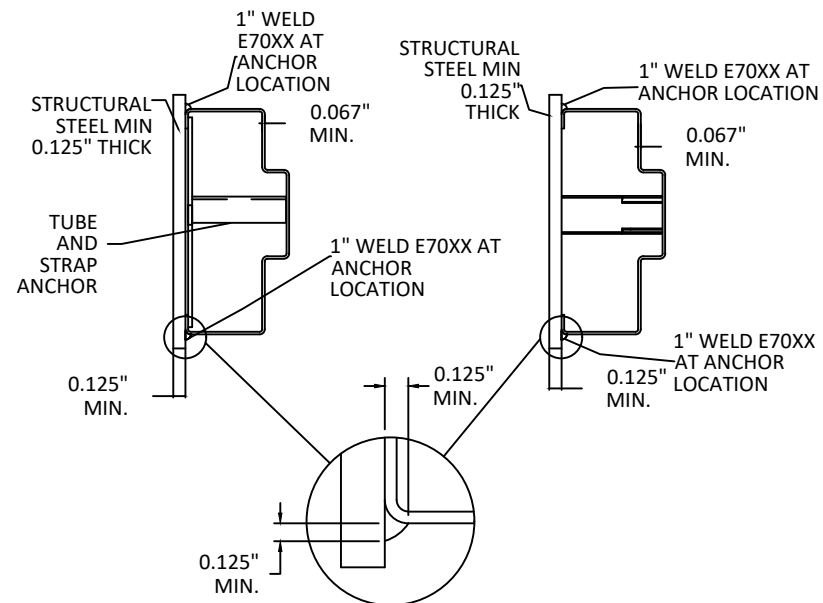
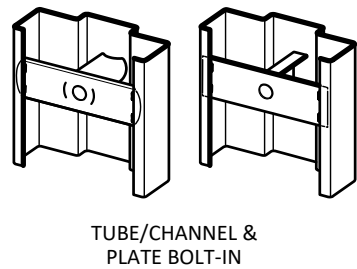
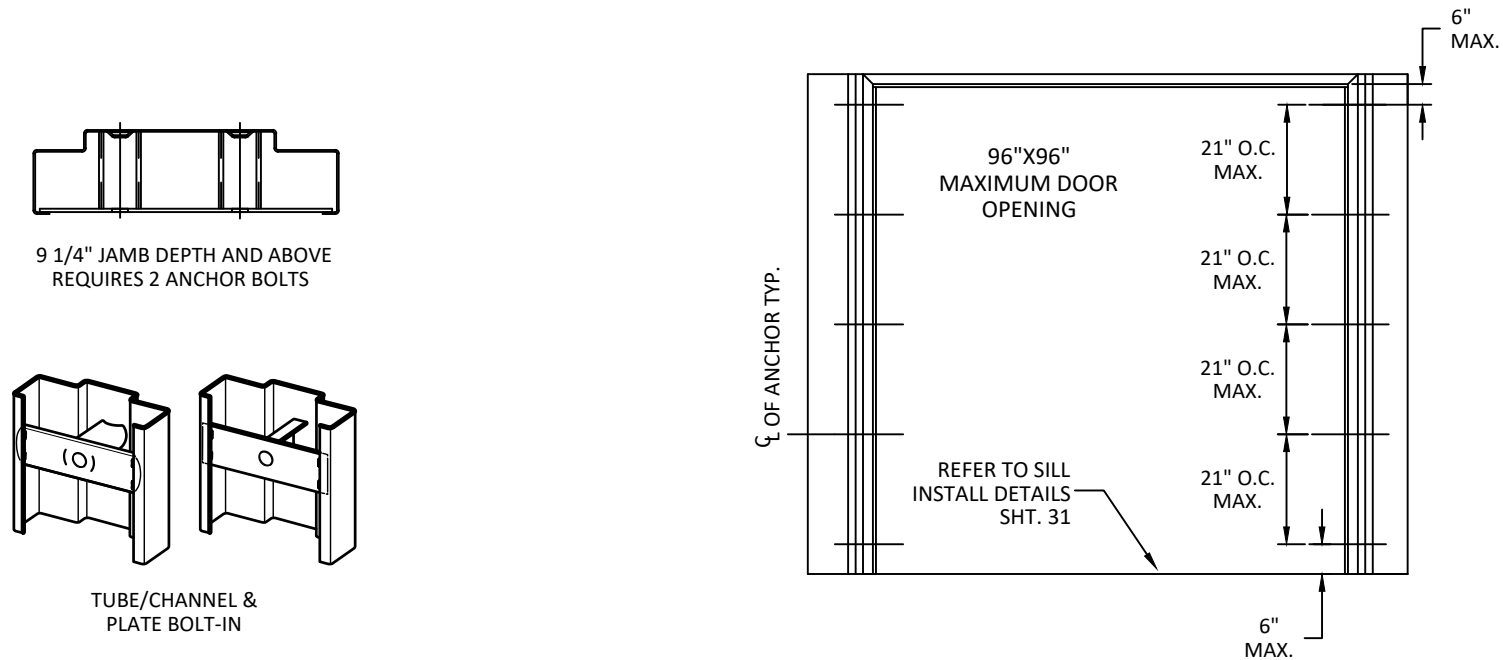
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DATE: 04.11.22	
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SCALE: NTS	
DWG. #: F882W-2D	
SHEET:	

29

SEE PAGES 12 FOR
OPTION 1 ANCHOR DETAILS

8

WELDED ANCHOR
SHIM OR STEEL BUILDING
STRUCTURE



NOTES:
1.(*)WOOD OR (*)STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD
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ALLEGION - SCHLAGE LOCK COMPANY, LLC.
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032
PH: (317) 715-4073

TITLE: DOUBLE OUTSWING COMMERCIAL
STEEL DOOR SYSTEMS W/ LOUVERS
(HVHZ)(IMPACT)

REPUBLIC DOORS: ANCHORS - FRAMES
WELDED TO STEEL STRUCTURE BUILDING

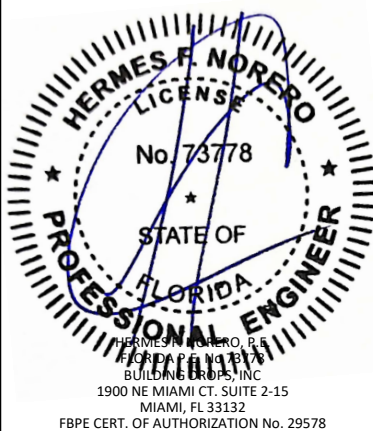
PREPARED BY:
BUILDING DROPS, INC.

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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DATE: 04.11.22

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CHK. BY: HFN

SCALE: NTS

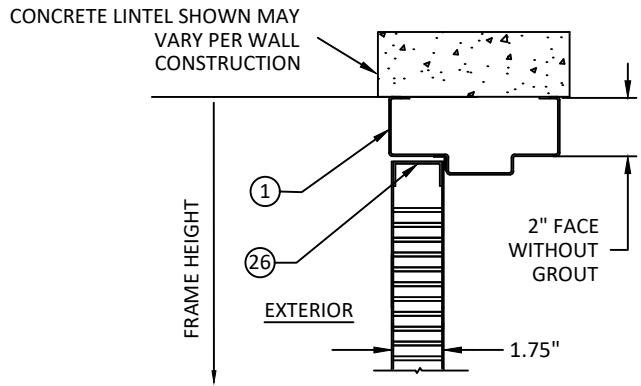
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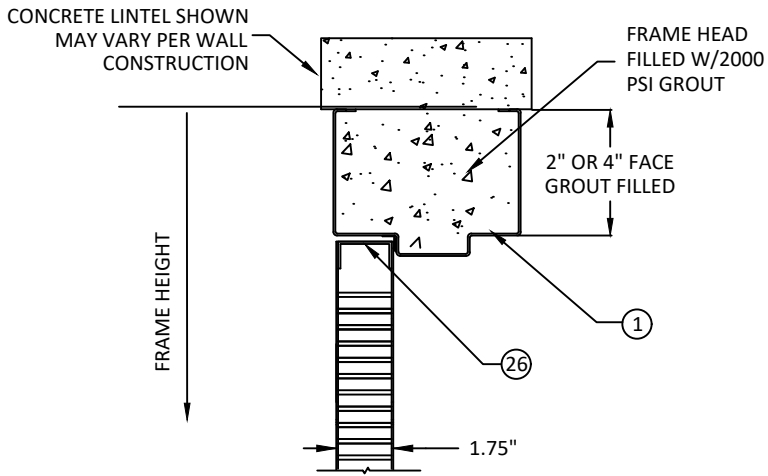
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OF 31

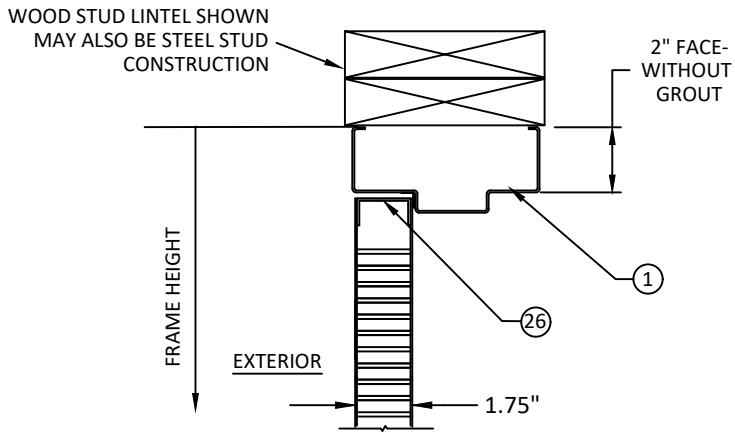
SEE PAGE 13 FOR
OPTION 1 ANCHOR DETAILS



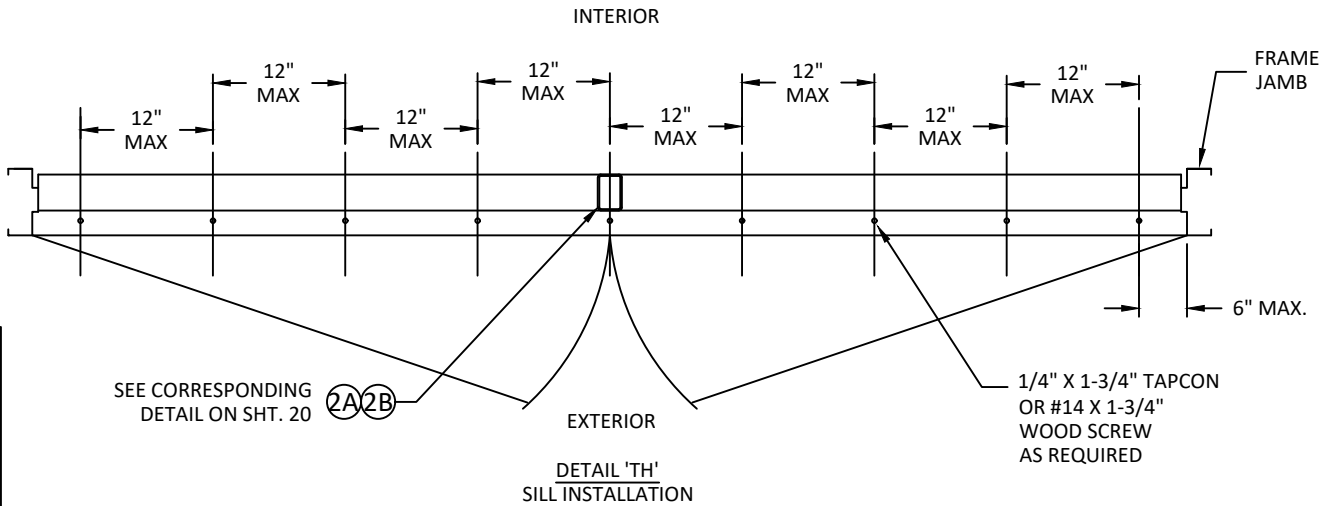
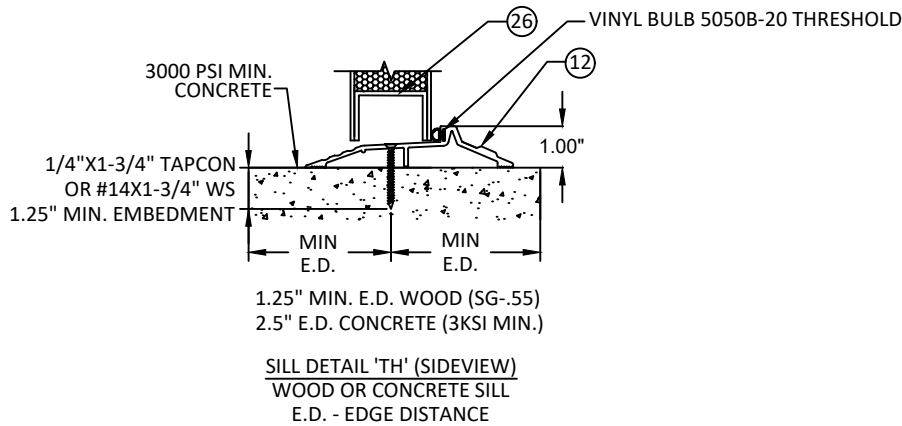
HD1 - FRAME HEAD SECTION



HD2 - FRAME HEAD SECTION



HD3 - FRAME HEAD SECTION



NOTES:

1. (*)WOOD OR (*)STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY AT LEAST 250 #/FT. LOAD FOR ASSEMBLIES RATED @60 PSF WHICH SHOULD BE VERIFIED BY THE APPROPRIATE OFFICIAL.
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TITLE: DOUBLE OUTSWING COMMERCIAL
STEEL DOOR SYSTEMS W/ LOUVERS
(HVHZ)(IMPACT)

REPUBLIC DOORS: FRAME HEAD
& SILL DETAILS

PREPARED BY: BUILDING DROPS, INC.

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31

OF 31