

ALLEGION-SCHLAGE LOCK COMPANY, LLC

SINGLE FLUSH INSWING COMMERCIAL STEEL DOOR W/ MORTISE LOCKS

GENERAL NOTES:

- THESE PRODUCTS HAVE BEEN TESTED TO HVHZ PROTOCOLS TAS201, 202, & 203-94 AND COMPLY WITH THE CURRENT FLORIDA BUILDING CODE.
- THE DOORS ARE LARGE MISSILE IMPACT RATED.
- DISSIMILAR MATERIAL IN CONTACT SHALL MEET FBC REQUIREMENTS.

NOTES:

- ONE ROW OF WEATHERSTRIPPING PER JAMB AND HEAD. INSTALL PER SHEET 5, 10 & 15.
- ANCHORING REQUIREMENTS: SEE SHEETS 6, 7, 8, 9, 17, 18, 19 AND 20 FOR APPROVED ANCHOR AND INSTALLATION REQUIREMENTS.
- HINGE REQUIREMENTS: MINIMUM (3) HINGES LOCATIONS: 9.75" FROM RABBET IN HEAD TO CL OF TOP HINGE 10.38" FROM FLOOR TO CL OF BOTTOM HINGE, EQUALLY SPACED IN BETWEEN OR (1) CONTINUOUS HINGE.
- SEE SHEET 4, 5 & 16 FOR AVAILABLE STANDARD DOOR / FRAME CONFIGURATIONS.
- 4" FACE HEAD IS AVAILABLE WHEN FRAME IS GROUTED WITH CONCRETE, TO MAX FRAME HEIGHT SHOWN.
- APPLY CAULK AS NEEDED.
- PRODUCT IS NOT APPROVED WHERE WATER INFILTRATION REQUIREMENT IS NEEDED.
- SEE SHT. 2 & 14 FOR ELEVATION AND SIZE.
- SEE SHT. 5, 15 & 16 FOR AVAILABLE OPENING SIZES, JAMB DEPTHS AND SPECIFICATIONS.
- APPROVED HARDWARE SHOWN, INSTALLATION IS PER MANUFACTURER'S INSTRUCTIONS.
- STUD WALL CONSTRUCTION STRUCTURAL MEMBERS MUST BE DESIGNED TO COMPLY WITH APPROVED DESIGN PRESSURE RATING WITH 283#/FT BASIS.
- NUMBER OF ANCHORS FOR VARIOUS OPENING HEIGHTS IS LIMITED BY MAXIMUM DISTANCE BETWEEN ANCHORS, SHOWN ON SHEETS 6, 7, 8, 9, 17, 18, 19 AND 20.
- HEAD SECTION CAN HAVE 4" FACE DIMENSION WHEN IT'S GROUTED FULL. 2" FACE HEAD WITHOUT GROUT REQUIRES (3) EXPANSION OR LAG BOLTS IN HEAD 6" FROM EACH JAMB AND EQUALLY SPACED.
- ELEVATIONS SHOWN FROM INTERIOR FOR INSWING APPLICATIONS.
- 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.

- 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.

CONSTRUCTION NOTES:

- DOOR CONSTRUCTION
 - MINIMUM DOOR THICKNESS - 1 3/4"
 - DOORS AVAILABLE IN FLAT AND EMBOSSED SURFACE MODELS (SEE TABLE 2 & 9)
 - ALL DOORS ARE FLUSH - NO LITES OR LOUVERS APPROVED
 - DOOR VIEWERS ARE PERMITTED TO BE USED IN A DOOR WITH A DESIGN RATING OF +/-75 PSF OR LESS
- FRAME CONSTRUCTION
 - MINIMUM JAMB DEPTH - 5 3/4", STOP HEIGHT - 5/8"
 - STEELCRAFT FRAME OPTIONS AVAILABLE AS FLUSH (F-SERIES) AND MULTI-USE (MU-SERIES) (SEE TABLE 5, SHEET 5). REPUBLIC DOOR FRAME OPTIONS AVAILABLE AS FLUSH (ME-SERIES) AND MULTI-USE (SE-SERIES) (SEE TABLE 10, SHEET 16).
- FOR DOOR/FRAME MATERIAL SPECIFICATIONS REFERENCE SEE TABLE 3, 4, 5, 8, 9 AND 10.
- FRAME CORNER WELD: CONTINUOUS BACK WELD WITH FULL PENETRATION TO FACE SEAM. GRIND, SMOOTH, PRIME, & PAINT. WELD CLASSIFICATION - E70XX. SEE SHEET 5 & 16 FOR DETAIL.

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20	REPUBLIC DOORS: FRAME HEAD & SILL ANCHOR DETAILS

DESIGN PRESSURE RATING (INSWING DOOR)			IMPACT RATING
LOCK/STRIKE PLATE OPTION	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS <u>NOT</u> NEEDED*	LARGE AND SMALL MISSILE IMPACT (LMI - 50 FPS)
STANDARD	NOT APPROVED	+120 PSF / -120 PSF	
STAINLESS STEEL SS 304 OR 306 FY MIN= 31.2 KSI	NOT APPROVED	+170 PSF / -170 PSF	

* WATER INFILTRATION RESISTANCE IS NOT REQUIRED WHEN DOOR ASSEMBLIES INSTALLED IN NON-HABITABLE AREAS WHERE THE DOOR ASSEMBLY AND AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION, OR IF PROTECTED BY OVERHANG WITH RATIO LENGTH/HEIGHT EQUAL OR GREATER THAN 1.

* DOOR ASSEMBLIES MEET THE CURRENT FBC AIR INFILTRATION REQUIREMENTS.



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INSWING COMMERCIAL STEEL
DOOR W/ MORTISE LOCKS*

GENERAL NOTES & DESIGN
PRESSURE TABLE

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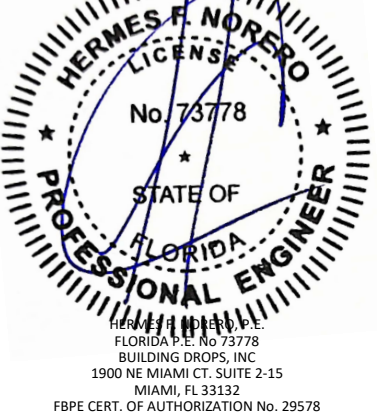
BUILDING DROPS, INC.

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REMARKS	BY	DATE
2020 FBC UPDATE	SM	07.05.20
FORMAT UPDATE	DI	03.31.23
LOCK ADDITION	MG	10.05.23
LOCK UPDATE	JA	12.05.24

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Reason: I am approving this document
Date: 2024.12.19 16:59:05 -0500



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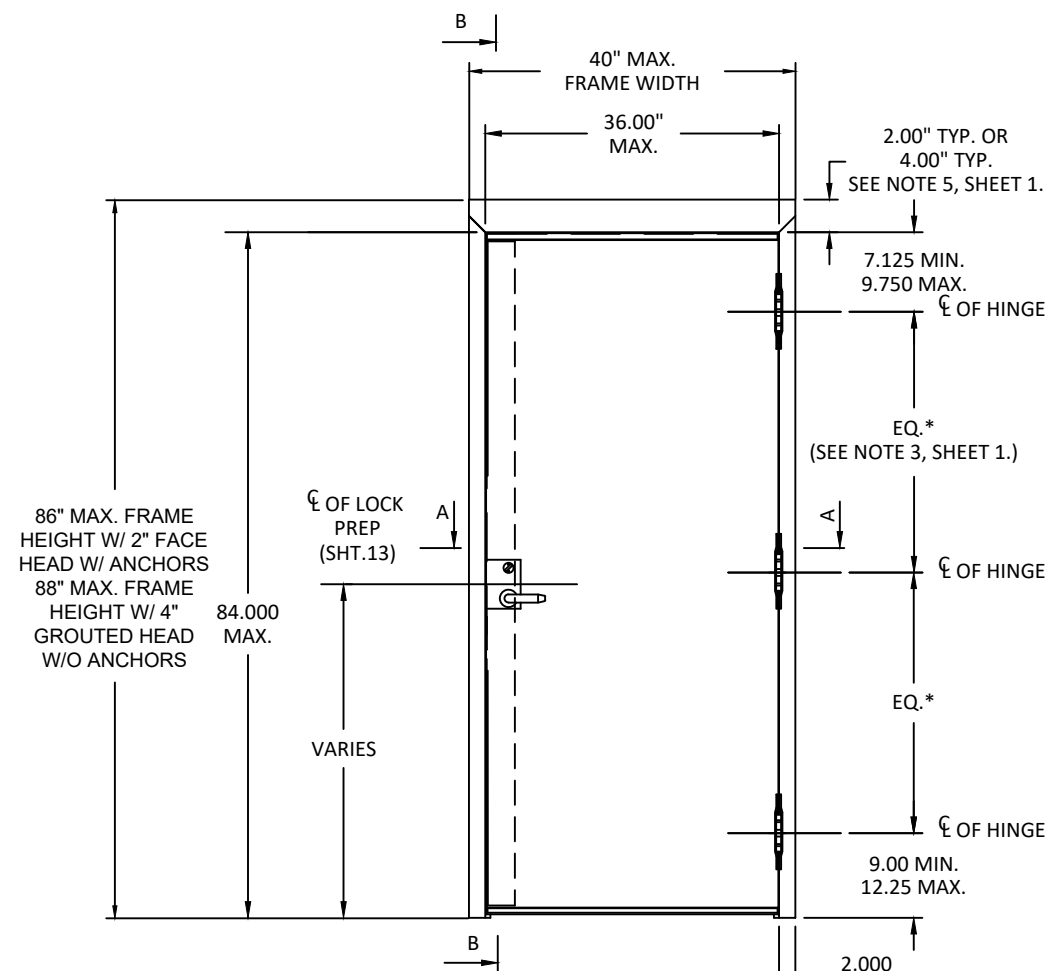
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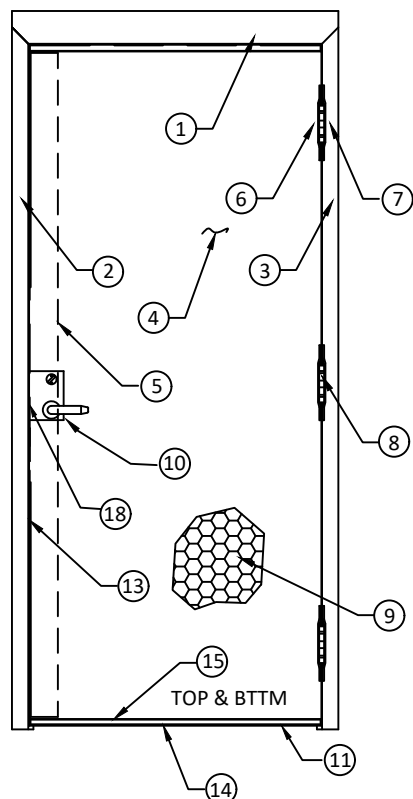
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OF 20



INTERIOR ELEVATION - INSWING DOOR



COMPONENTS - INSWING DOOR

TABLE 1. (FOR OPTION 2 SEE TABLE 7, SHEET 14)

ITEM	QUANTITY	DESCRIPTION	MATERIAL	SIZE
1	1	HEAD SEE SHT 3 & 5.	.053" MIN. STL	MAX. 40"
2	1	STRIKE JAMB. SEE SHT 5.	.053" MIN. STL	MAX. 86"-88"
3	1	HINGE JAMB SEE SHT 5.	.053" MIN. STL	MAX. 86"-88"
4	1	DOOR SLAB	SEE SHT 4	3'0"(36") X 7'0"(84") MAX.
5	1	LOCK SIDE REINFORCEMENT CHANNEL SHT 12	.093" MIN. STL	3.5" X 81.44" MAX.
6	NOTE 3, SHT1.	HINGE REINFORCEMENT DOOR SHT 11	.167" MIN. STL.	1.23" X 9.19"
7	NOTE 3, SHT1.	HINGE REINFORCEMENT FRAME SHT 11	.167" MIN. STL.	1.5" X 9.19"
8	NOTE 3, SHT1.	4.5" MIN. BUTT HINGES (SEE SHT. 12)	.134 MIN.	(4) #12-24 MS PER HINGE
		OPTIONAL CONTINUOUS HINGE (SEE SHT. 12)	.075" MIN.STL / .11 ALUM.	MAX. 84"
9	1	CORE MATERIAL: D) HONEYCOMB C) STEEL STIFFENED A&F) POLYSTYRENE B&F) POLYURETHANE E) MINERAL BOARD TEMPERATURE RISE CORE	SEE SHEET 4	35.66" X 81.5" MAX.
10	1	LOCKING HARDWARE - LOCKSET 1) SCHLAGE L/LV9400 SERIES MORTISE LOCK W/DEADBOLT 2) FALCON MA-SERIES MORTISE LOCK W/ DEADBOLT 3) SCHLAGE AD-MD & CO-MD SERIES MORTISE LOCK W/ DEADBOLT 4) SCHLAGE LE & LEB SERIES MORTISE LOCK W/ DEADBOLT 5) SCHLAGE XE360-M-D SERIES MORTISE LOCK W/ DEADBOLT 6) SCHLAGE PM400 SERIES MORTISE LOCK WITH DEADBOLT	SEE SHEET 13	
11	1	THRESHOLD SILL W/BUMPER GASKET. SHT. 10 & 11 1) ZERO 566A 2) ZERO 568 3) ZERO 65 4) NAT'L GUARD 950	.125" ALUM. 6063 T5 .078" ALUM. 6063 T5	5.5" X 0.5" X 36" MAX
12	NOTE 2, SHT1.	FRAME ANCHOR (LOCK-IN OR WELD-IN) MIN 18 GA	SEE SHTS. 6, 7 & 8	
13	3	A) PSO74 WEATHER STRIPPING. SHEET 5 & 10 B) ZERO 188S C) ZERO 117S D) ZERO 8144S E) ZERO 8150S	TPE SILICONE	MAX. 21'
14	1	FAS-SEAL DOOR SWEEP	TPE	MAX. 35.66"
15	2	END CHANNEL (14 GAGE) SHT 4	.067" MIN. STL	.69" X 1.66" X VARIES
16	AS NEEDED	BUTYL RUBBER OR SILICONE		
17	1	17A) TOP CAP GALV. A60 (24 GAGE) SHT 4	.020" MIN. STL .047" MIN. STL	36" MAX.
18	1	STRIKE REINFORCEMENT FRAME SHT 3	.053" MIN. STL	1.31" X 8.38"
19		IVES 698/U698 VIEWER SHT 10	BRASS	
20	NOTE 3, SHT1.	.045" (19 GA.) WIRE DOOR HINGE SPACER SHT 10	.045" MIN. STL	



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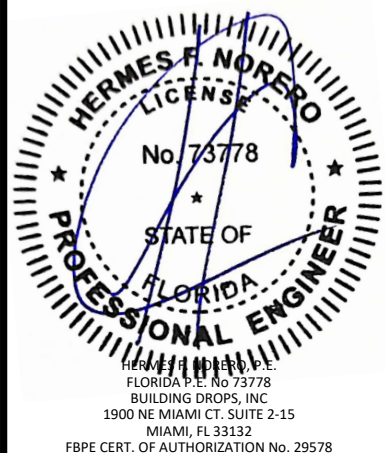
STEELCRAFT: OPENING
DIMENSIONS & BOM

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DOOR & FRAME SECTION VIEWS

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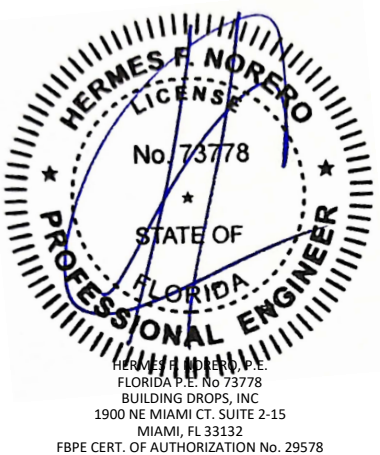
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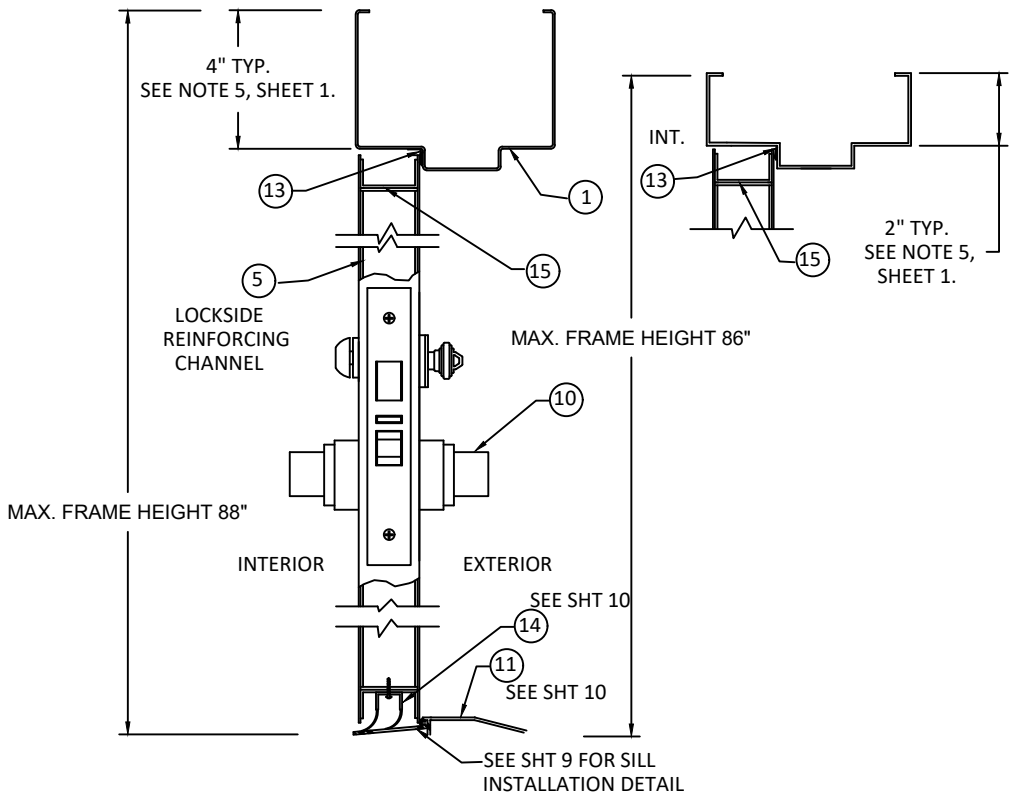
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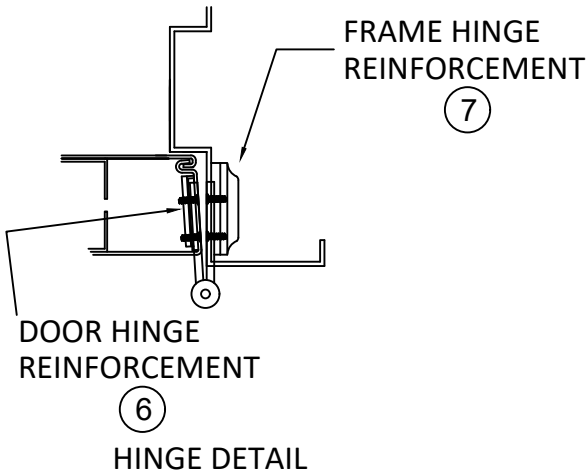
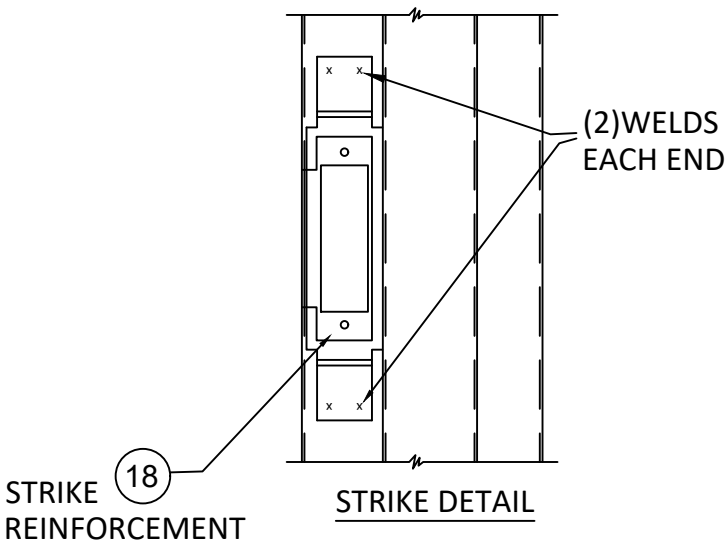
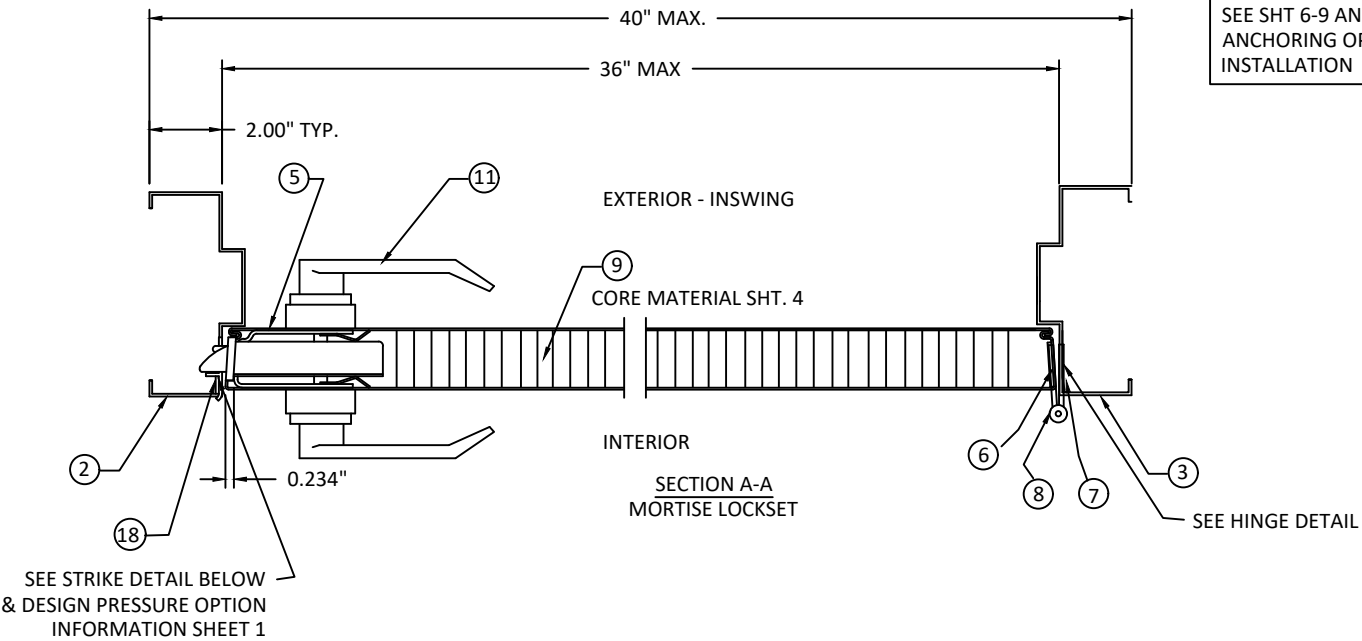
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**SECTION B-B
MORTISE LOCKSET**



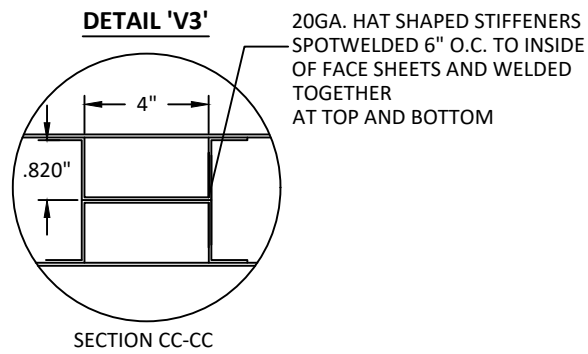
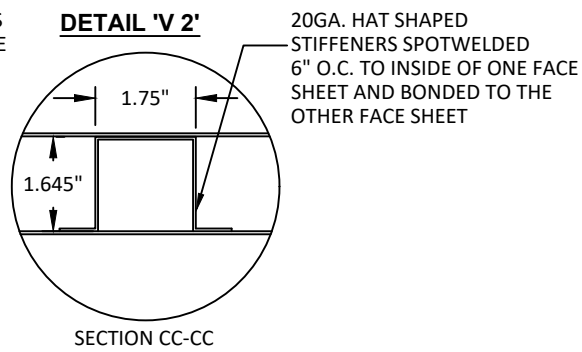
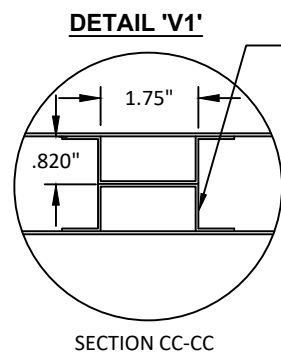
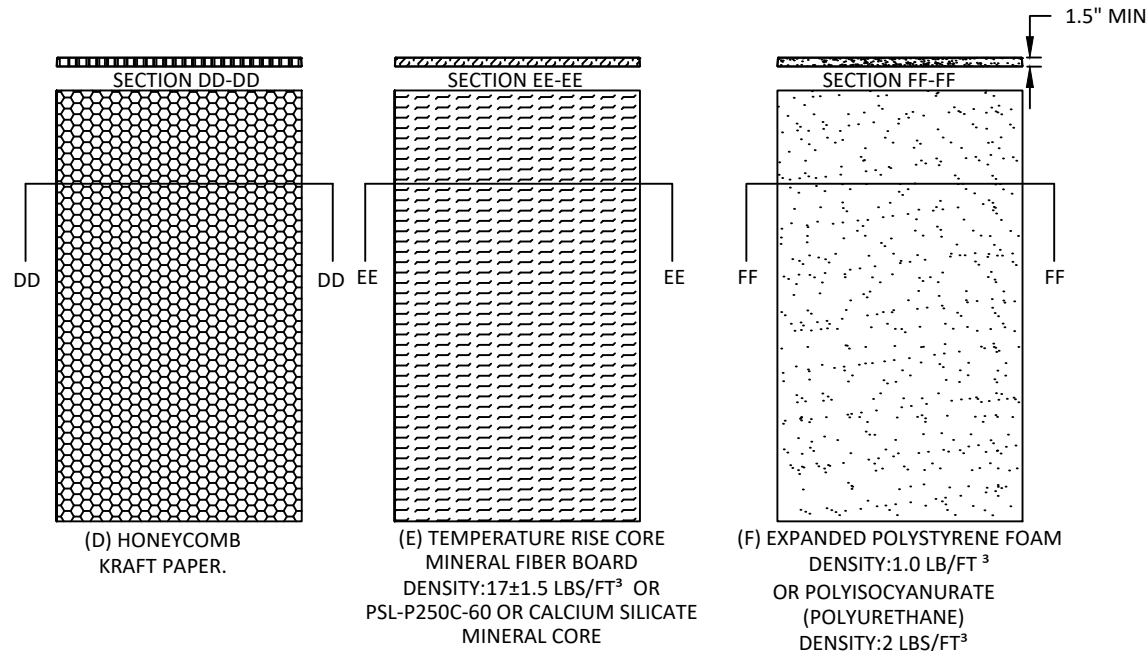
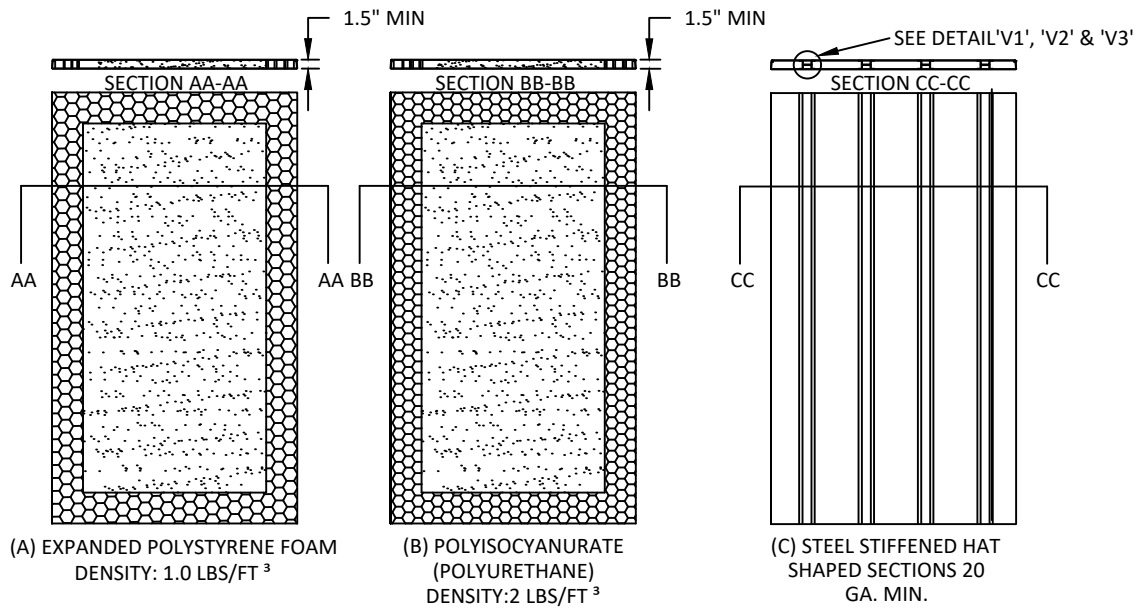
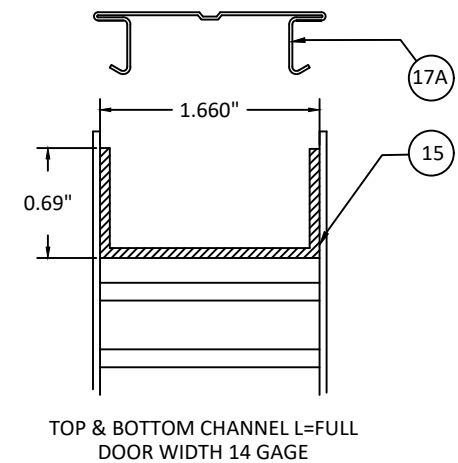
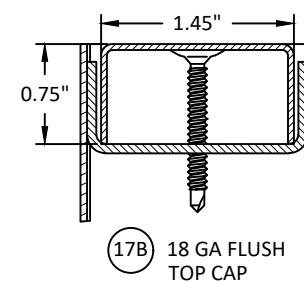
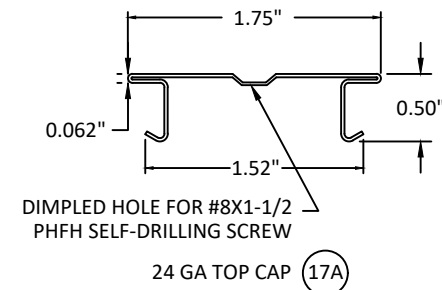


TABLE 2. AVAILABLE STEELCRAFT DOOR CONFIGURATIONS (SEE CONSTRUCTION NOTE 1, SHEET 1.)

STEELCRAFT H SERIES DOOR TYPE	CORE MATERIAL PER THIS SHEET	MAXIMUM OPENING SIZE		SKIN MATERIAL	
		WIDTH	HEIGHT	DESCR.	GA./MIN. THK
FLUSH	HONEYCOMB POLYSTYRENE POLYURETHANE	3'0"	7'0"	CRS GALV	16/.053" 14/.067"
STEEL STIFFENED	STEEL STIFFENED	3'0"	7'0"	CRS GALV	16/.053" 14/.067"
TEMPERATURE RISE CORE	MINERAL FIBER	3'0"	7'0"	CRS GALV	16/.053" 14/.067"
EMBOSSED PANELS	POLYSTYRENE	3'0"	7'0"	GALV	16/.053"

TABLE 3. STEEL DOOR MECHANICAL PROPERTIES.

MATERIAL	ASTM REF.	DOOR	
		YIELD (KSI)	TENSILE (KSI)
CRS	ASTM A366	44.7 MIN.	50.2 MIN.
HRS	ASTM A1011	44.7 MIN.	50.2 MIN.
GALV: A60	ASTM A924	44.7 MIN.	50.2 MIN.



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



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DOOR PANEL & CORE DETAILS

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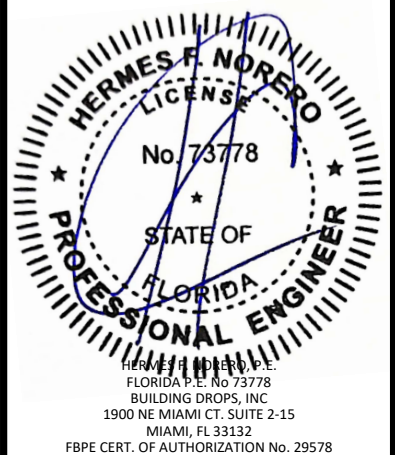
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SHEET:

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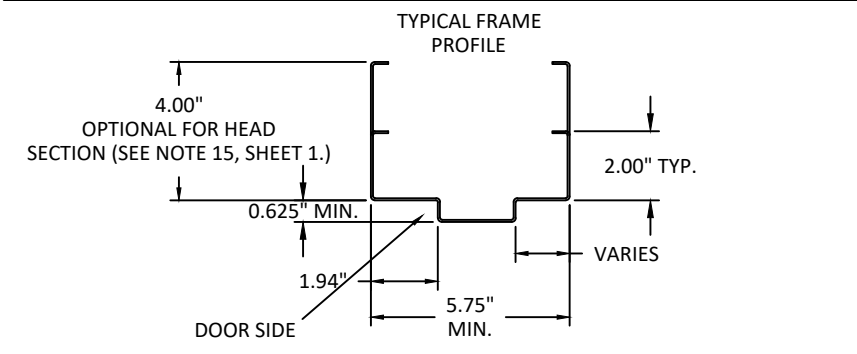
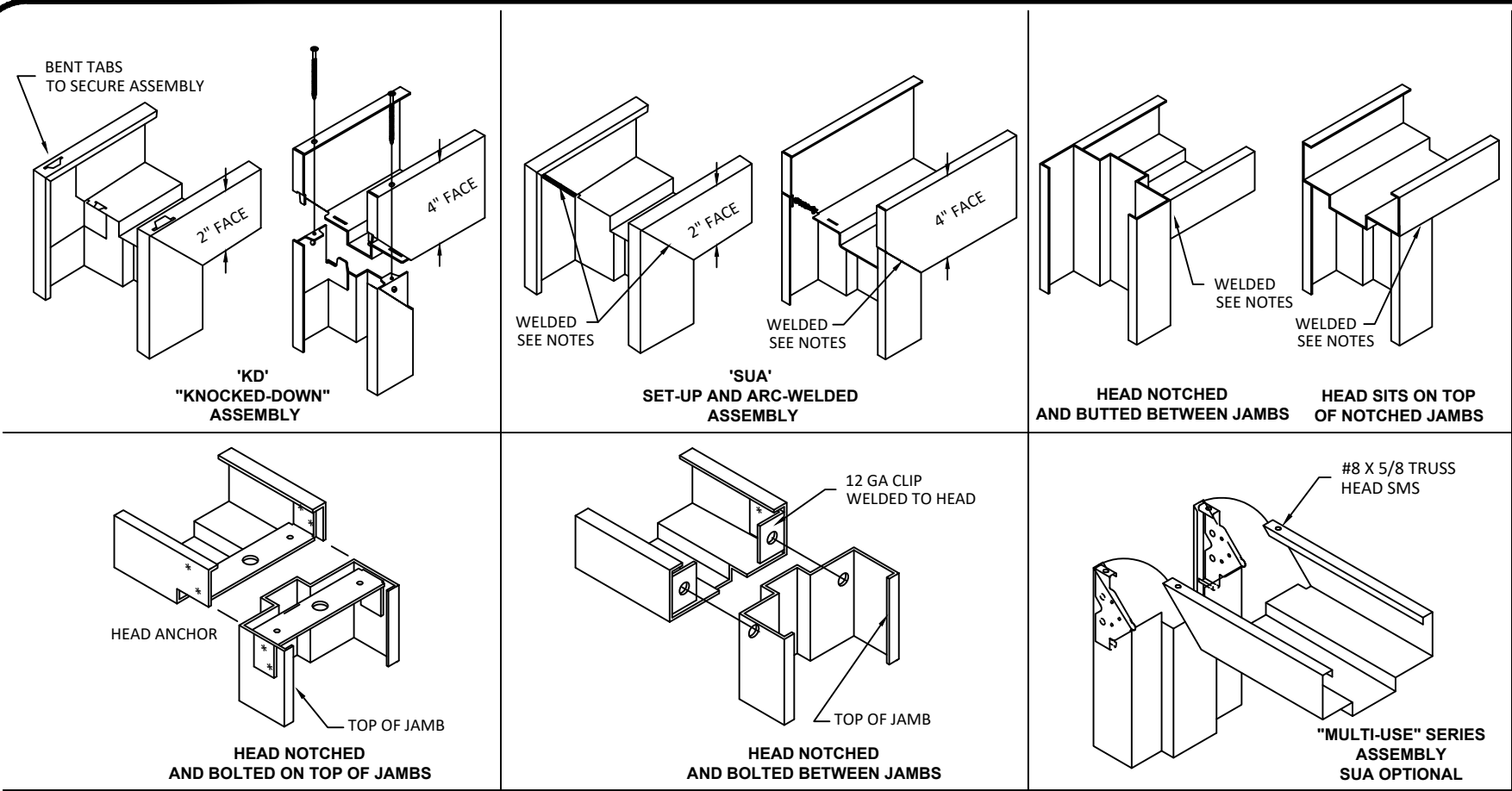
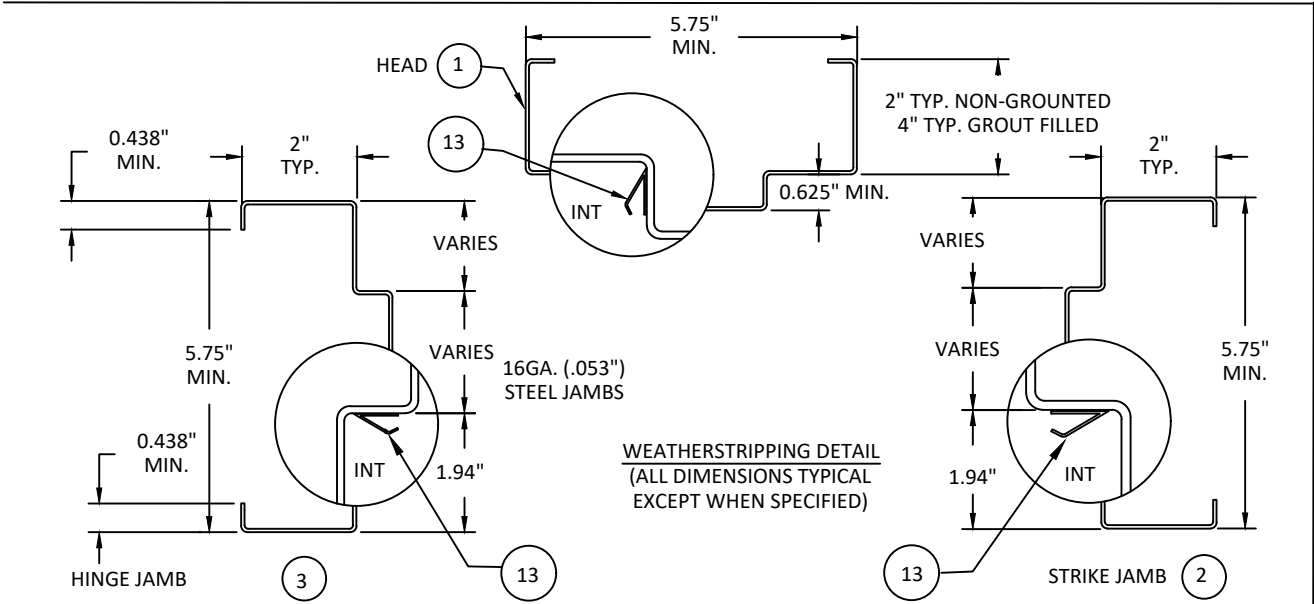


TABLE 4. STEEL MECHANICAL PROPERTIES.

MATERIAL	ASTM REF.	FRAME	
		YIELD (KSI)	TENSILE (KSI)
CRS	ASTM A366	31.1 MIN.	41.5 MIN.
HRS	ASTM A1011	31.1 MIN.	41.5 MIN.
GALV: A60	ASTM A924	31.1 MIN.	41.5 MIN.



WEATHERSTRIPPING DETAIL
(ALL DIMENSIONS TYPICAL
EXCEPT WHEN SPECIFIED)

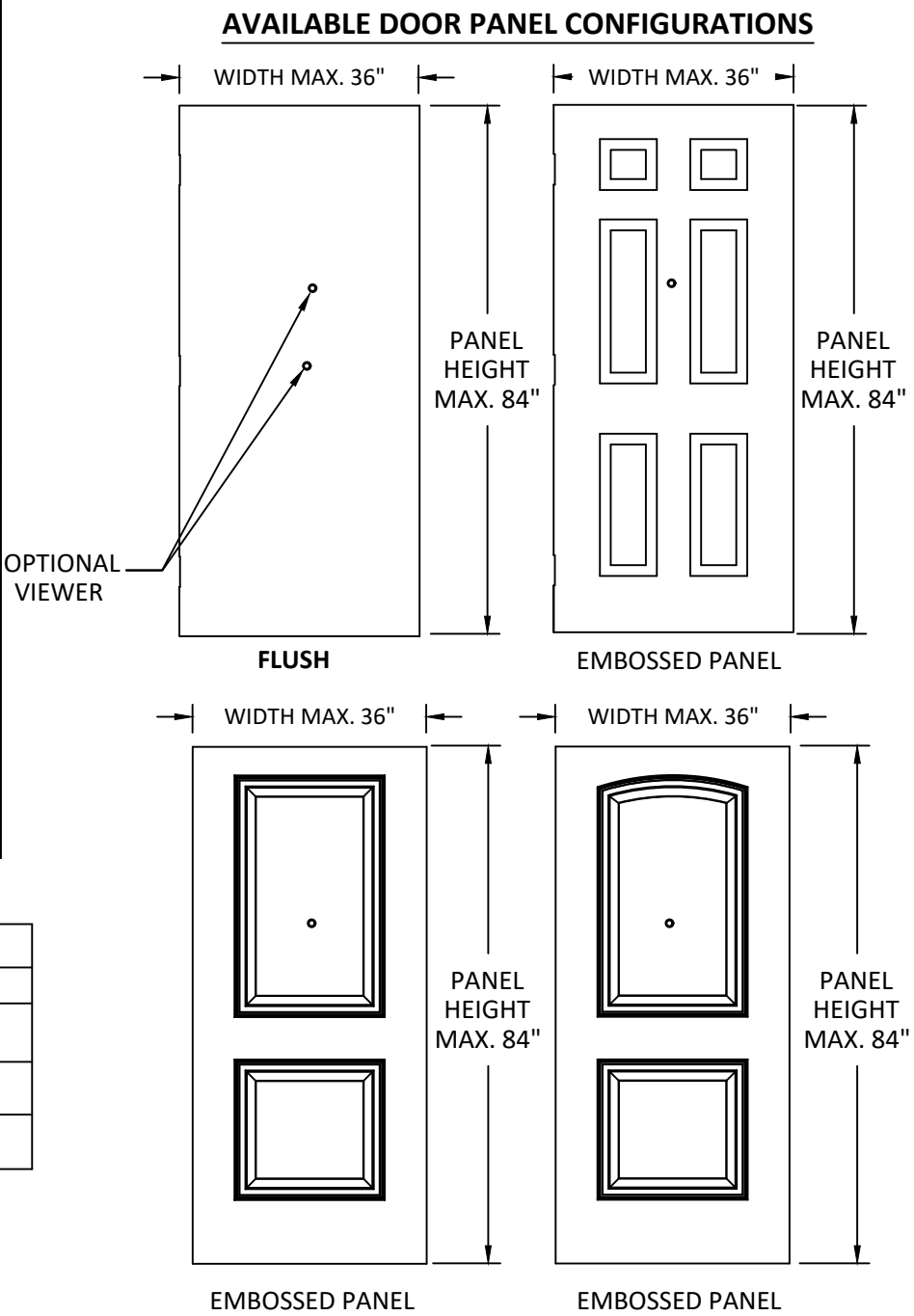


TABLE 5. AVAILABLE STEELCRAFT FRAME CONFIGURATIONS (SEE CONSTRUCTION NOTE 2, SHEET 1.)

STEELCRAFT FRAME SERIES	JAMB DEPTH	MAXIMUM OPENING SIZE		MATERIAL	
		WIDTH	HEIGHT	DESCR.	GA./MIN. THK
F	5.75" MIN.	3'0"	7'0"	CRS/HRS GALV	16/.053" 14/.067" 12/.093"
MU	5.75" MIN.	3'0"	7'0"	CRS/HRS GALV	16/.053" 14/.067"



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STEELCRAFT: FRAME DETAILS &
CORNER CONSTRUCTION

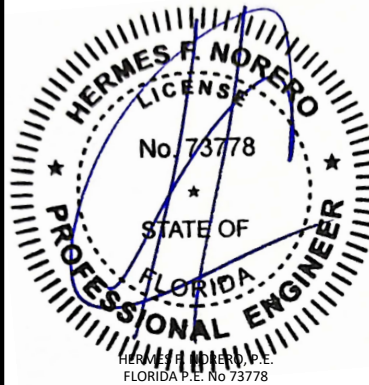
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FBPE CERT. OF AUTHORIZATION No. 29578

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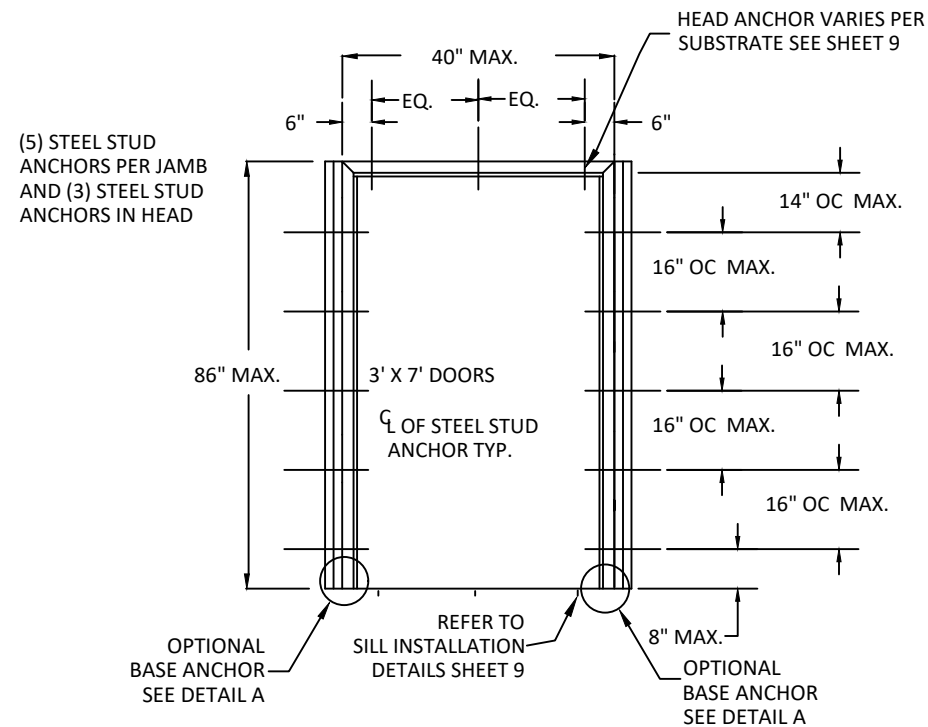
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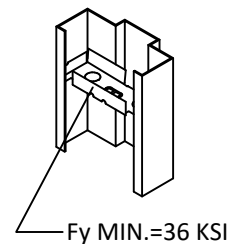
OF 20

C STEEL STUD ANCHOR



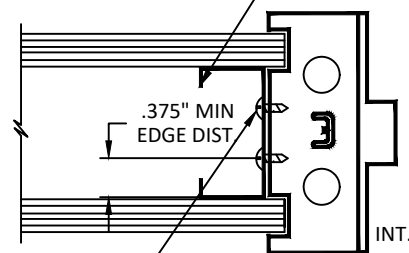
STEEL STUD ANCHOR
WELD-IN OR LOCK-IN

UNIVERSAL ANCHOR
WELD-IN OR LOCK-IN



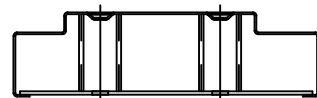
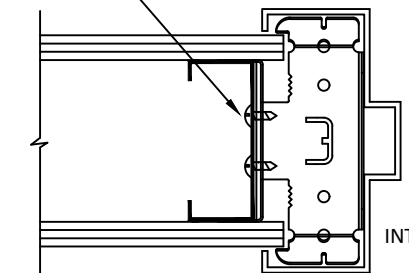
F_y MIN.=36 KSI

18 G.A. MIN. STEEL STUDS, MIN
F_y=33 KSI BY OTHERS

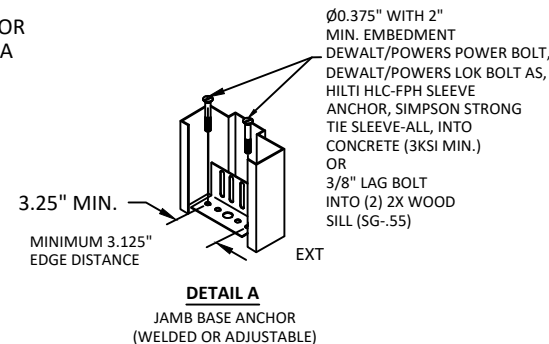


STEEL STUD WALLS
SEE NOTE 13, SHEET 1.

#12 X .75 GR. 5 SMS
(2) PER ANCHOR
0.69\"/>

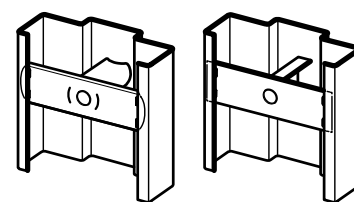


9 1/4\"/>

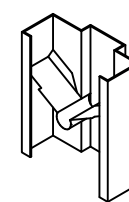


DETAIL A

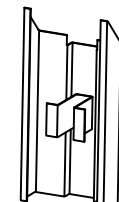
JAMB BASE ANCHOR
(WELDED OR ADJUSTABLE)



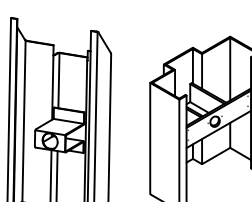
TUBE/CHANNEL &
PLATE BOLT-IN



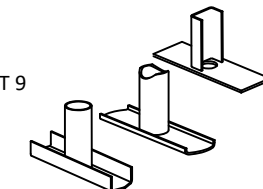
LOCK-IN



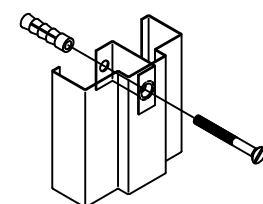
EMA-U ANCHOR



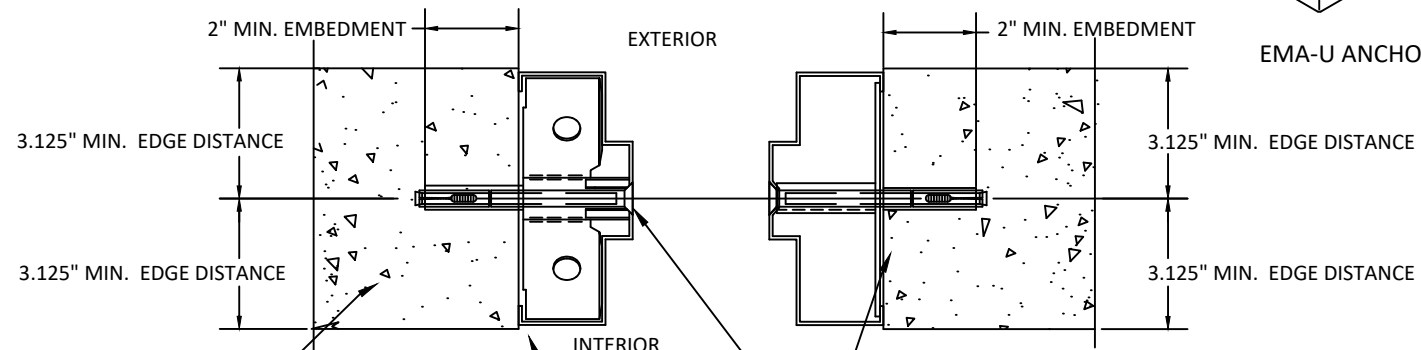
WELD-IN



TUBE & PLATE
WELD-IN EMA
ANCHOR



EMA-U ANCHOR



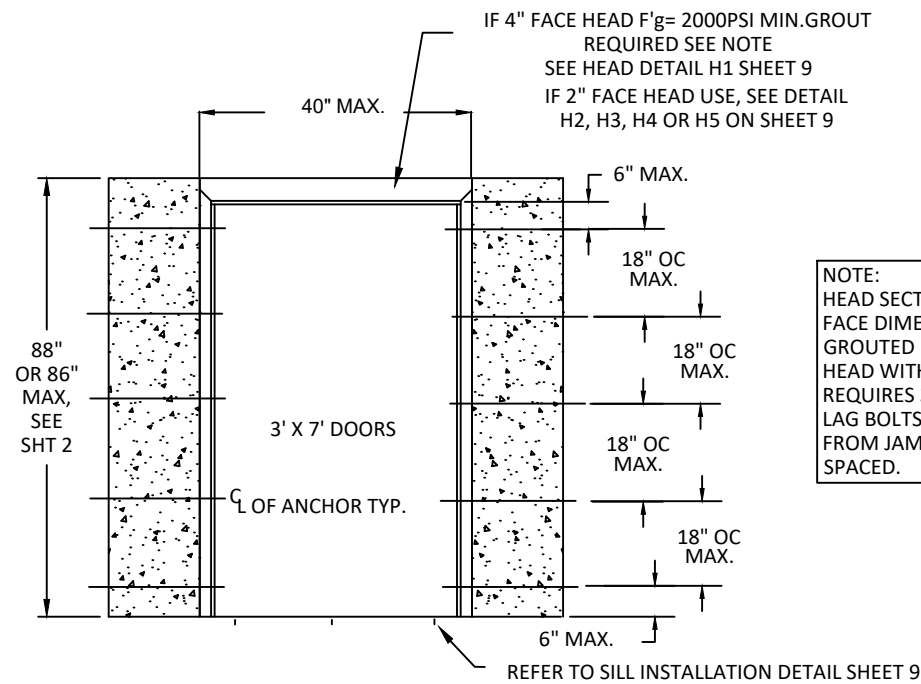
MIN. 3000PSI CONCRETE OR (C-90) CMU
BLOCK WALL 2000PSI GROUT FILLED

SHIM SPACE
1/4\"/>

Ø0.375\"/>

D EXISTING MASONRY ANCHOR (EMA)
INTO CONCRETE WALL OR CMU

SEE PAGE 18 FOR
OPTION 2 ANCHOR
DETAILS



NOTE:
HEAD SECTION CAN HAVE 4\"/>

REFER TO SILL INSTALLATION DETAIL SHEET 9



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

TITLE: **SINGLE FLUSH
INSWING COMMERCIAL STEEL
DOOR W/ MORTISE LOCKS**

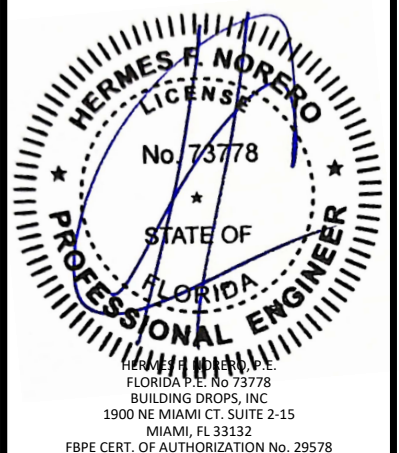
STEELCRAFT: ANCHORS - STEEL STUD
& EMA IN CONCRETE OR CMU

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MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744.4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
2020 FBC UPDATE	SM	07.05.20
FORMAT UPDATE	DI	03.31.23
LOCK ADDITION	MG	10.05.23
LOCK UPDATE	JA	12.05.24

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CHK. BY:
HFN

SCALE: **NTS**

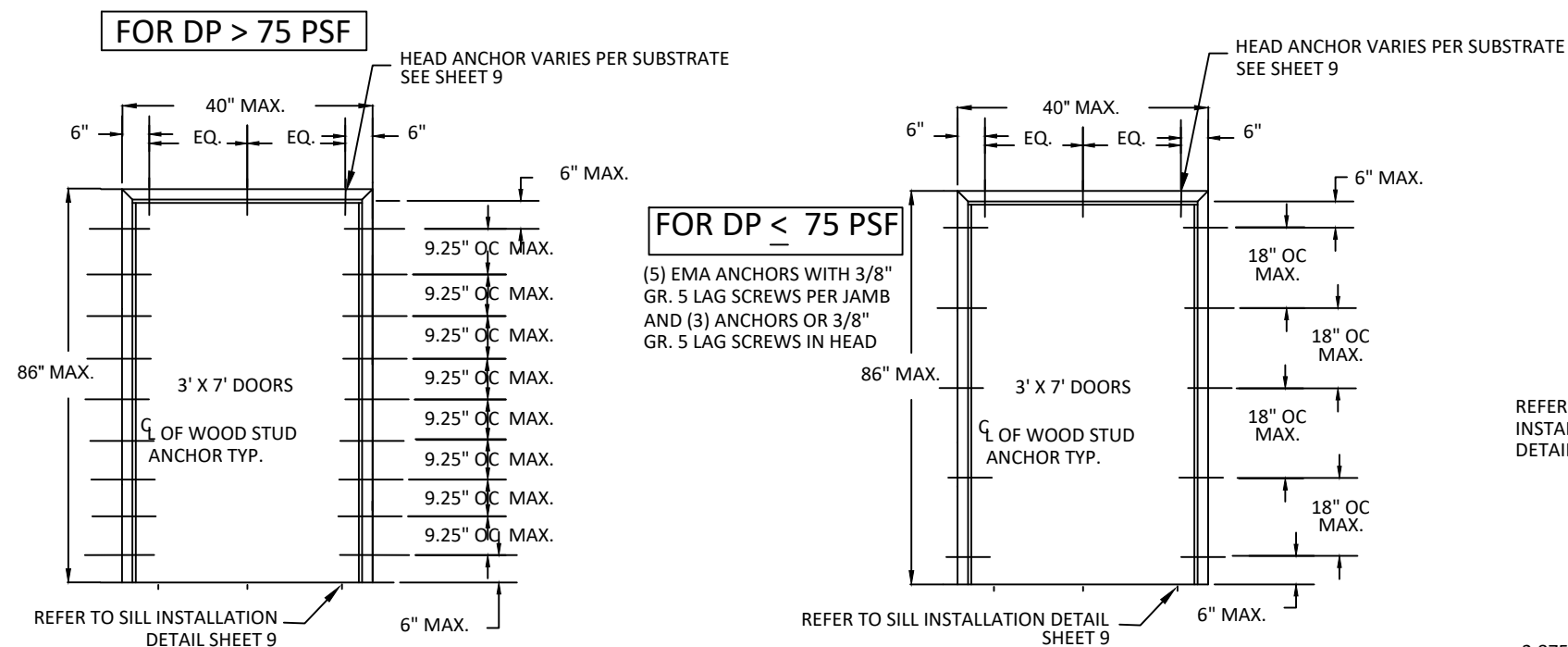
DWG. #: **776W-3** | **REV O**

SHEET:

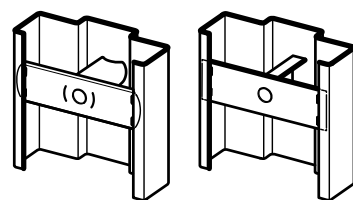
7

OF 20

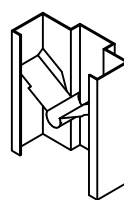
**E EXISTING MASONRY ANCHOR (EMA)
WITH LAG BOLT INTO WOOD STUD WALL**



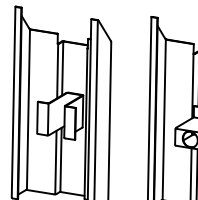
(9) EMA ANCHORS WITH 3/8" GR. 5 LAG SCREWS PER JAMB AND (3) ANCHORS OR 3/8" GR. 5 LAG SCREWS IN HEAD



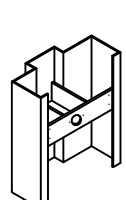
TUBE/CHANNEL & PLATE BOLT-IN



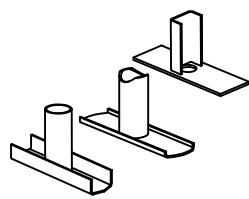
LOCK-IN



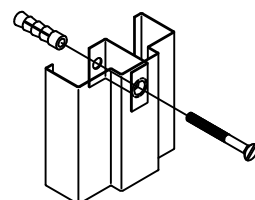
EMA-U ANCHOR



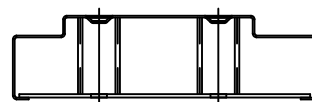
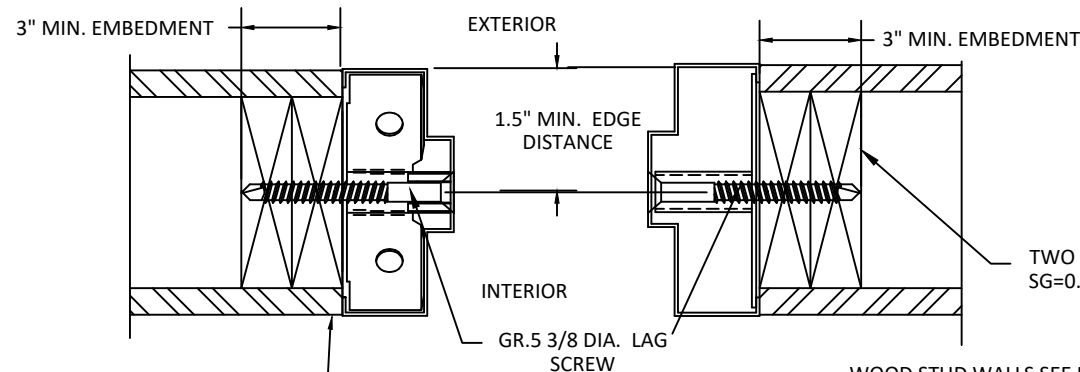
WELD-IN



TUBE & PLATE WELD-IN EMA ANCHOR



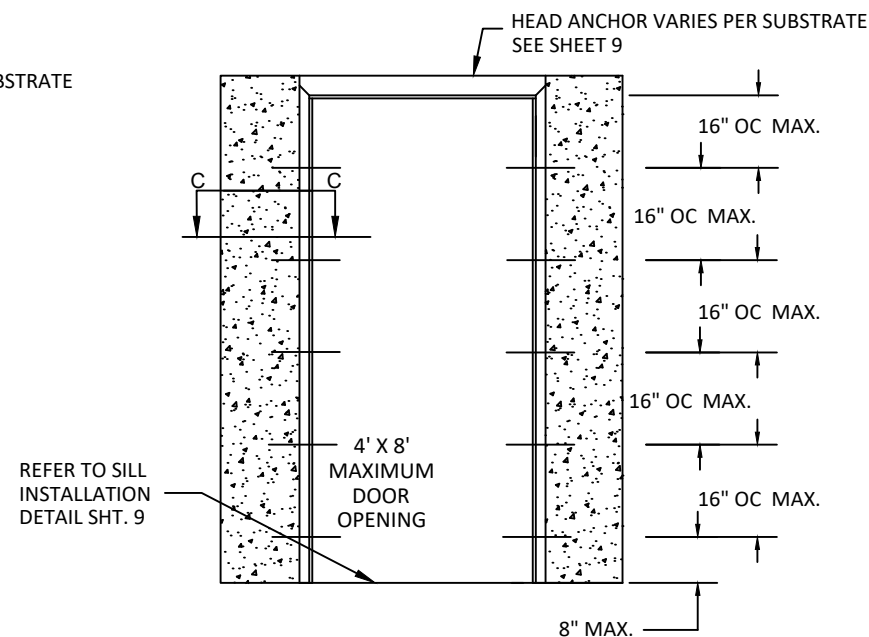
EMA-U ANCHOR



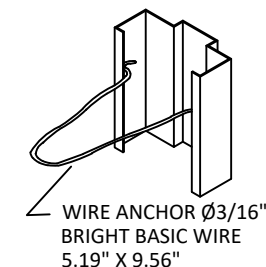
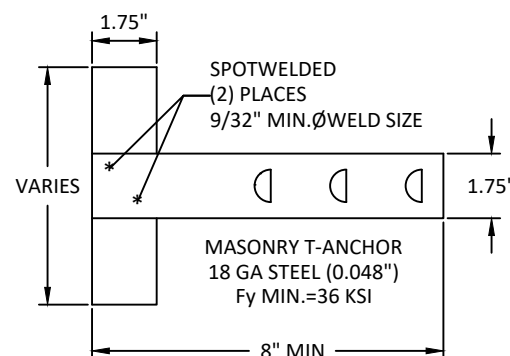
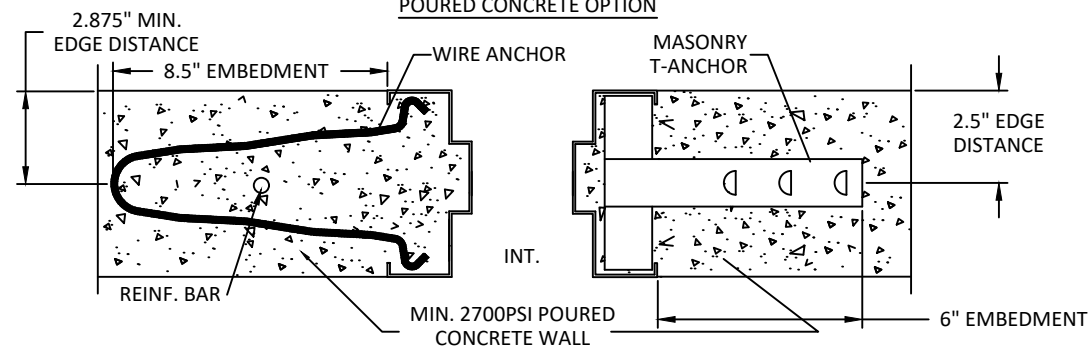
9 1/4" JAMB DEPTH AND ABOVE
REQUIRES 2 ANCHOR BOLTS

**F POURED CONCRETE
TILT UP WALL**

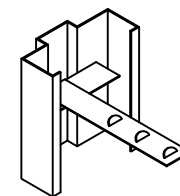
SEE PAGE 19 FOR
OPTION 2 ANCHOR
DETAILS



**CROSS-SECTION C-C
POURED CONCRETE OPTION**



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



MASONRY T-ANCHOR

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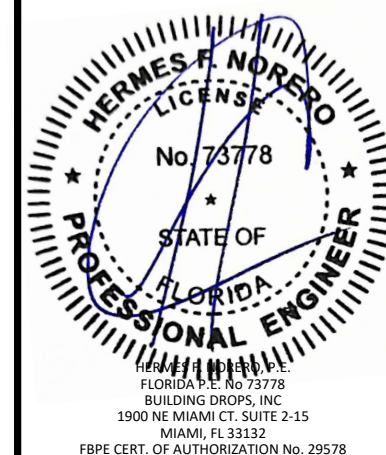
**TITLE: SINGLE FLUSH
INSWING COMMERCIAL STEEL
DOOR W/ MORTISE LOCKS**

**STEELCRAFT: ANCHORS - EMA IN
WOOD STUD & POURED CONCRETE
TILT UP WALL**

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MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744.4738
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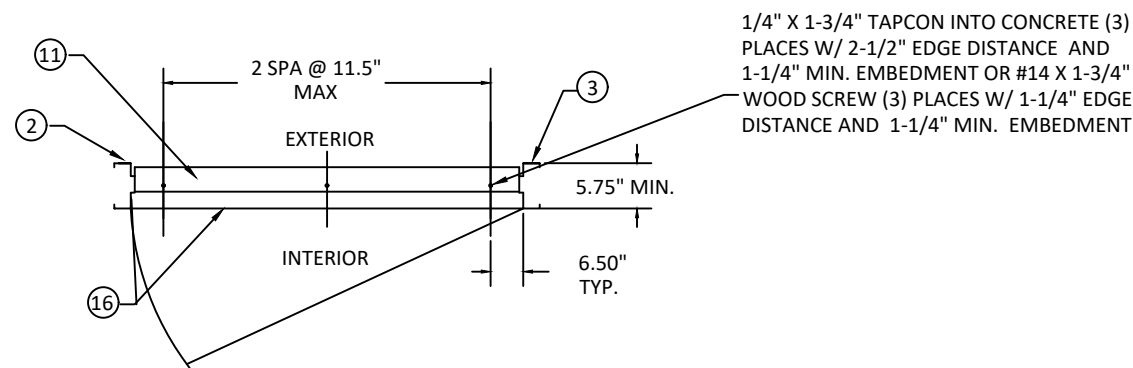
FL3905

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CHK. BY:	HFN
SCALE:	NTS
DWG. #:	776W-3
REV	O

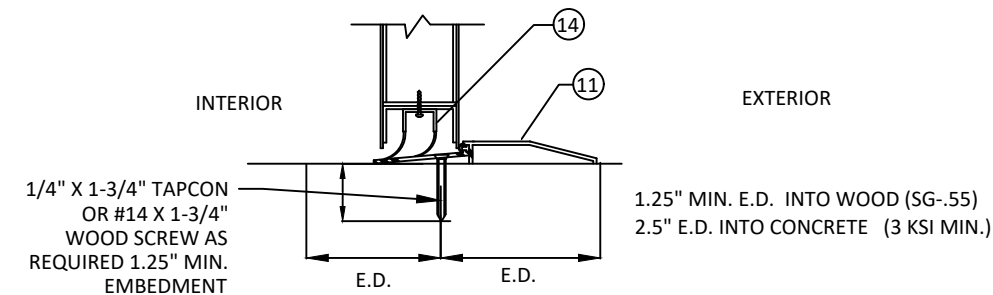
SHEET:

8

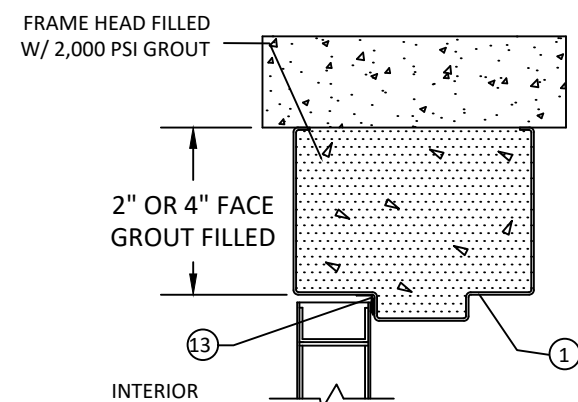
OF 20



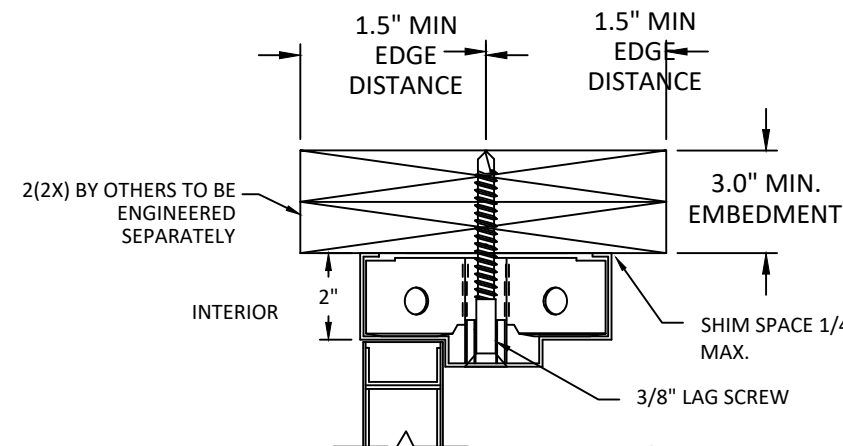
SILL INSTALLATION (TYPICAL)
INSWING DOOR



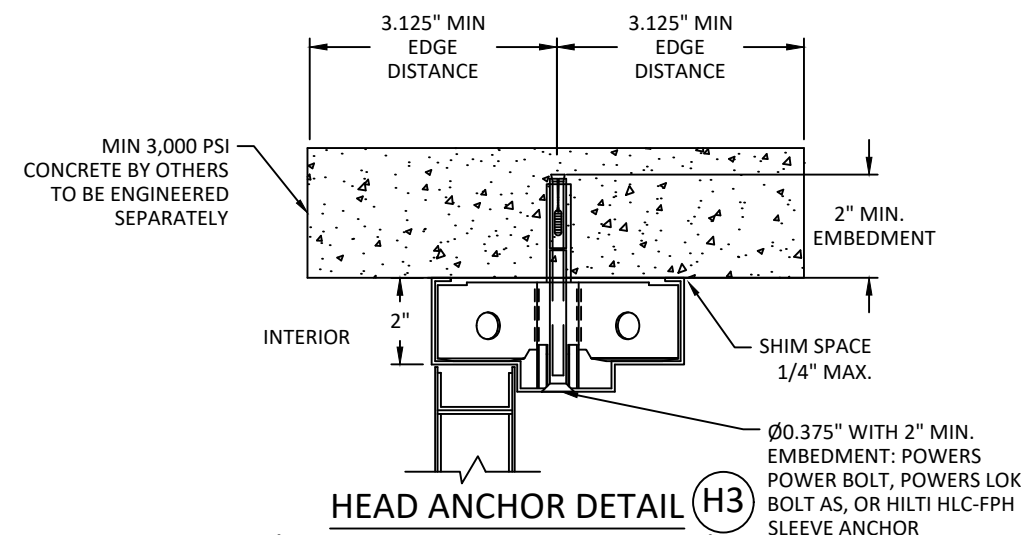
SILL DETAIL (SIDEVIEW)
WOOD OR CONCRETE
SILL E.D.=EDGE
DISTANCE



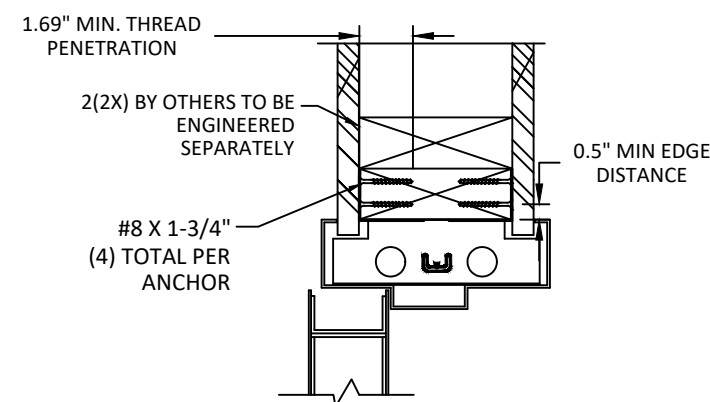
HEAD WITHOUT ANCHOR DETAIL (H1)
(SEE OPENINGS, SHEETS 6-8)



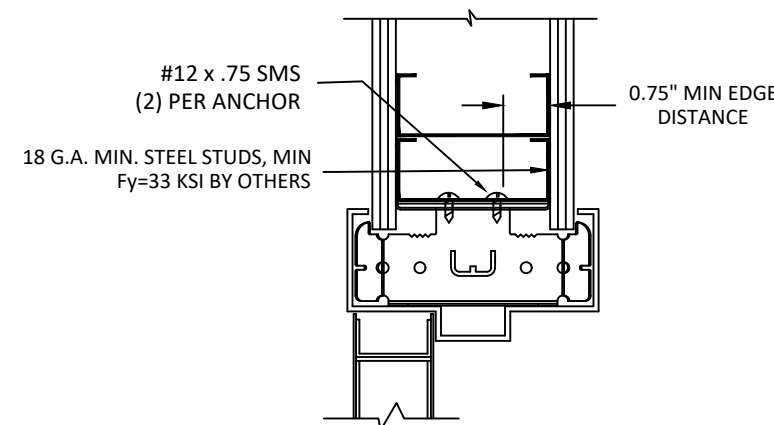
HEAD ANCHOR DETAIL (H2)
(SEE OPENINGS, SHEETS 6-8)



HEAD ANCHOR DETAIL (H3)
(SEE OPENINGS, SHEETS 6-8)



HEAD ANCHOR DETAIL (H4)
(SEE OPENINGS, SHEETS 6-8)



HEAD ANCHOR DETAIL (H5)
(SEE OPENINGS, SHEETS 6-8)



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DOOR W/ MORTISE LOCKS**

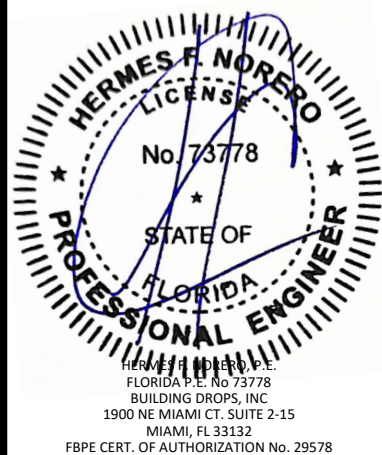
STEELCRAFT: FRAME HEAD & SILL
ANCHOR DETAILS

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SCALE: **NTS**

DWG. #: **776W-3** REV **O**

SHEET:

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OF 20

TABLE 6.1 NON WATER RATED PERIMETER SEAL HARDWARE - ZERO INT'L THRESHOLDS

ITEM NUMBER	MODEL No./ DESCRIPTION	MFG.
11	11A 566 THRESHOLD	ZERO INT'L
	11C 65 THRESHOLD	ZERO INT'L
	11D 568 THRESHOLD	ZERO INT'L
13	13A PS074 DOOR SEAL	STEELCRAFT
	13B 188S DOOR SEAL	ZERO INT'L
	13C 117S DOOR SEAL	ZERO INT'L
	13D 8144S DOOR SEAL	ZERO INT'L
	13E 8150S DOOR SEAL	ZERO INT'L
14	FAS-SEAL SWEEP	STEELCRAFT
15	END CHANNEL	STEELCRAFT
17	17A DOOR TOP CAP	STEELCRAFT
	17B FLUSH TOP CAP	STEELCRAFT

ZERO INT'L 65, 566 AND 568 THRESHOLD
GASKETING SYSTEM REQUIREMENTS WHEN WATER
INFILTRATION IS NOT REQUIRED
MAXIMUM DESIGN PRESSURE RATING 170 PSF -
(SEE ELEVATIONS SHEET 2 & 14)

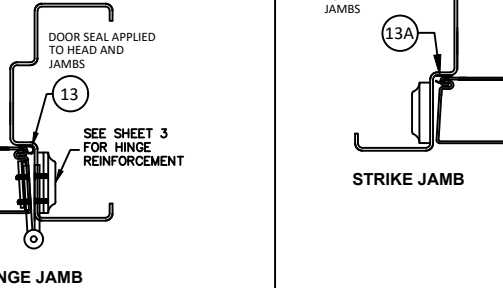
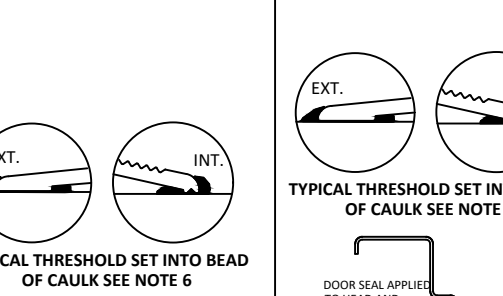
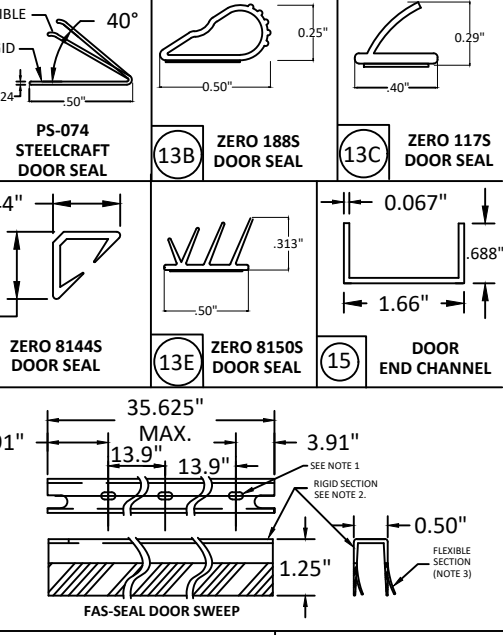
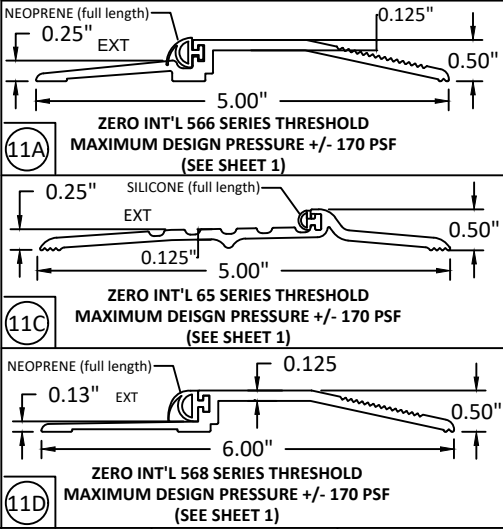
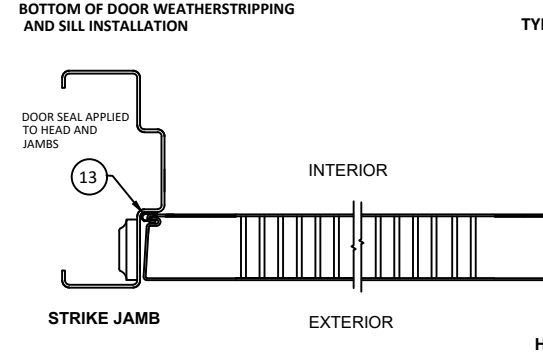
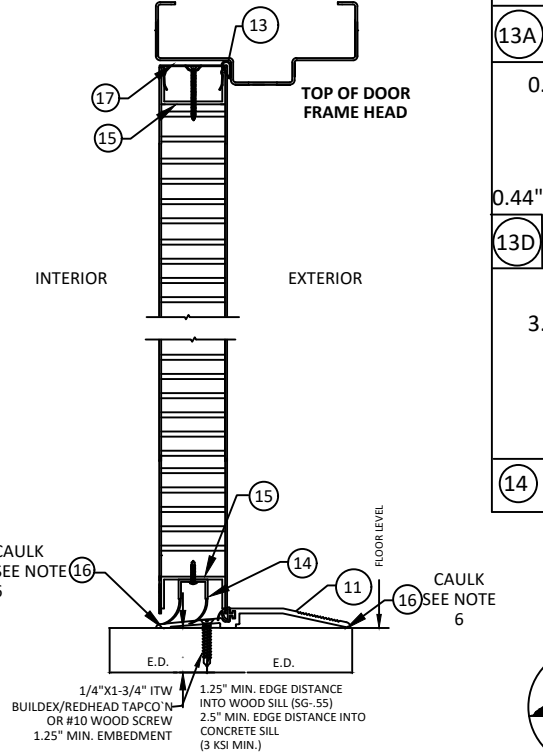
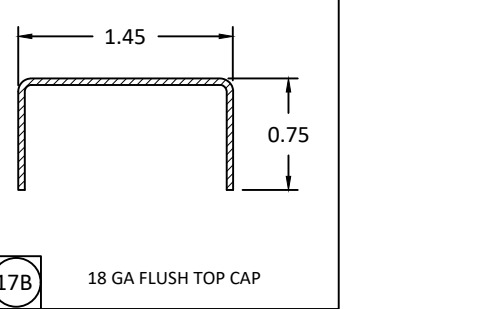
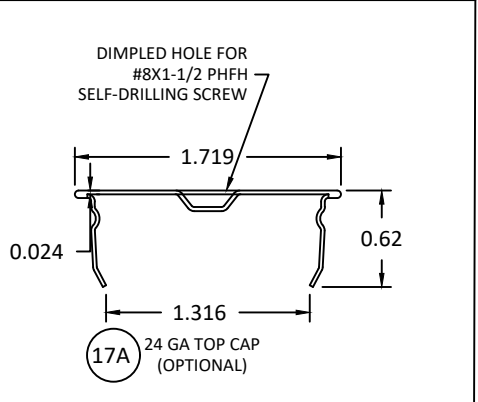
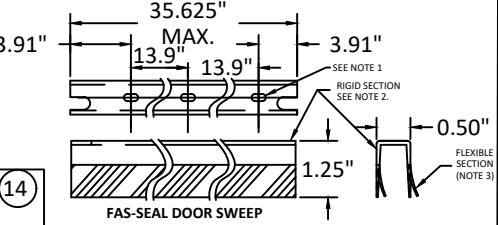
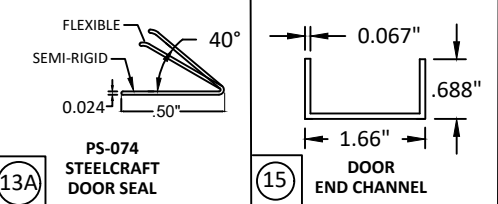
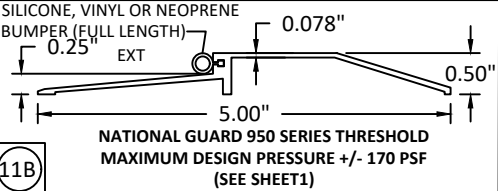
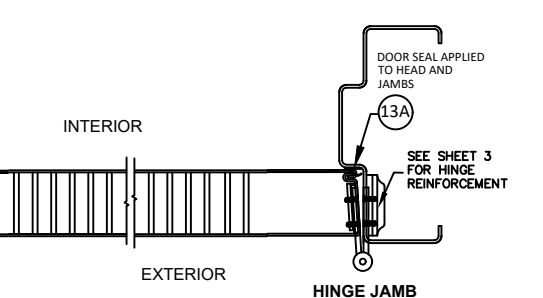
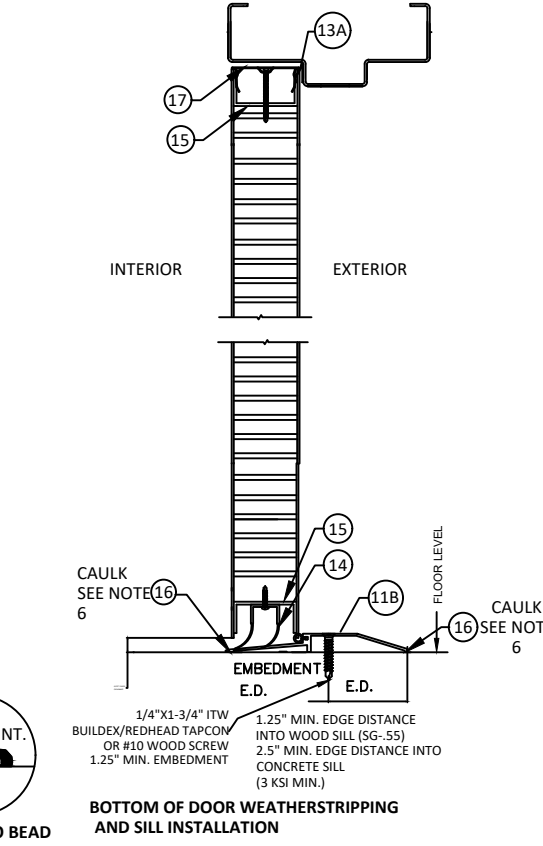


TABLE 6.2 NON WATER RATED PERIMETER SEAL HARDWARE - NGP THRESHOLD 950

ITEM NUMBER	MODEL No./ DESCRIPTION	MFG.
11B	950 THRESHOLD	NGP
13A	PS074 DOOR SEAL	STEELCRAFT
14	FAS-SEAL SWEEP	STEELCRAFT
15	END CHANNEL	STEELCRAFT
17A	DOOR TOP CAP	STEELCRAFT
17B	FLUSH TOP CAP	STEELCRAFT

NGP 950 THRESHOLD GASKETING SYSTEM
REQUIREMENTS WHEN WATER INFILTRATION IS NOT
REQUIRED -
MAXIMUM DESIGN PRESSURE 170 PSF FOR MAXIMUM
DOOR SIZE OF 3'-0" X 7'-0"
(SEE ELEVATIONS SHEET 2 & 14)



- 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 INSTALLATIONS REQUIRE FAS-SEAL DOOR SWEEP (14), DOOR SEAL (13) AND THRESHOLD (11) AS APPLICABLE, ARE REQUIRED FOR ALL INSTALLATIONS.
 5. SEAL ALL JOINTS WHERE FRAME MEETS WALL WITH CAULK
 6. INSTALL THRESHOLD INTO BEAD OF BUTYL RUBBER OR SILICONE CAULK FULL LENGTH OF SILL
 7. REPUBLIC DOORS HAVE FLUSH TOP DOOR CHANNEL - TOP CAP NOT APPLICABLE



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TITLE: *SINGLE FLUSH
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DOOR W/ MORTISE LOCKS*

GASKETING DETAILS FOR NO WATER
INFILTRATION

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MIAMI, FL 33132
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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

FL3905

DATE: **03.31.23**

DWG. BY: **DI** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **776W-3** | REV **O**

SHEET:

10

OF 20



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CARMEL, IN 46032
PH: (317) 715-4073

TITLE: *SINGLE FLUSH
INSWING COMMERCIAL STEEL
DOOR W/ MORTISE LOCKS*

HINGES REINFORCEMENT
AND PEEP VIEWERS

PREPARED BY:

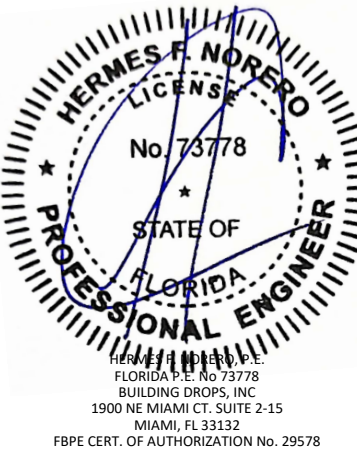
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MIAMI, FL 33132
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DATE: 03.31.23

DWG. BY:
DI

CHK. BY:
HFN

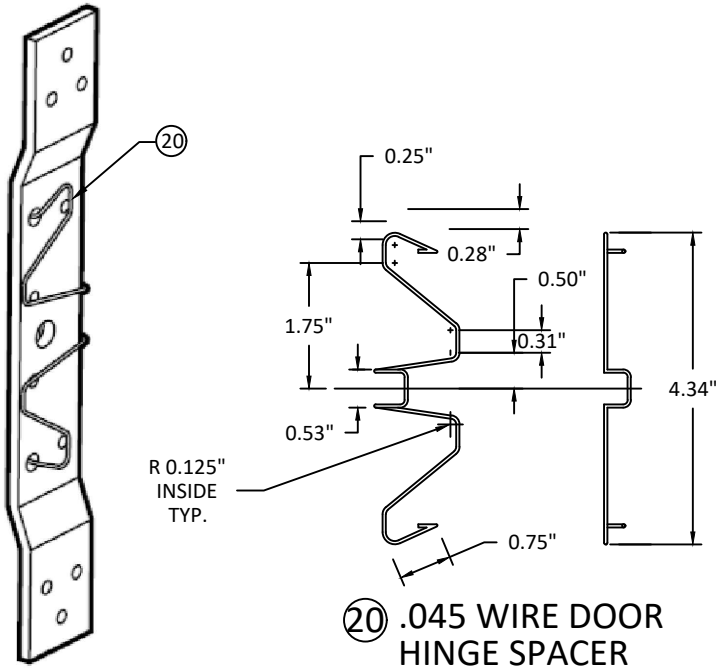
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DWG. #: 776W-3 | REV O

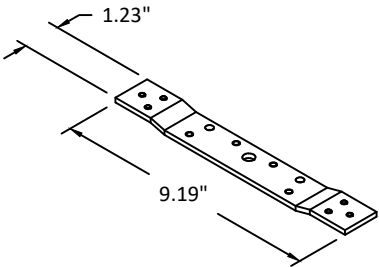
SHEET:

11

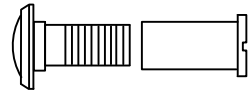
OF 20



(20) .045 WIRE DOOR
HINGE SPACER

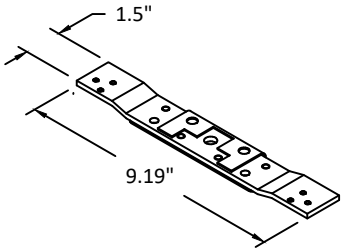


(6) 7 GA. DOOR HINGE
REINFORCEMENT



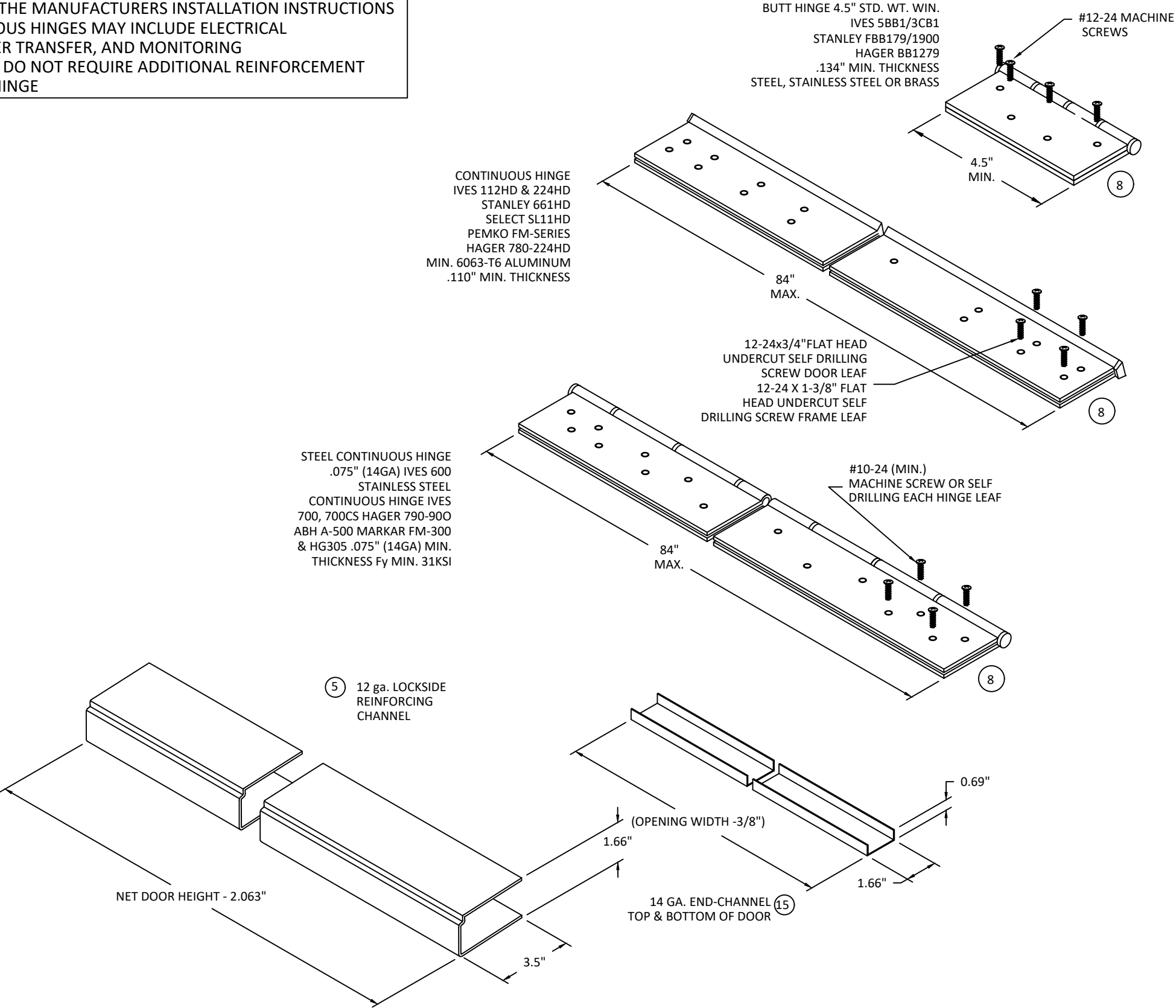
(19) IVES 698/U698 DOOR VIEWER

FOR DP ≤ 75 PSF



(7) 7 GA. FRAME HINGE
REINFORCEMENT

- 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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11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032
PH: (317) 715-4073

TITLE: *SINGLE FLUSH
INSWING COMMERCIAL STEEL
DOOR W/ MORTISE LOCKS*

HINGES AND CHANNEL
REINFORCEMENT

PREPARED BY:

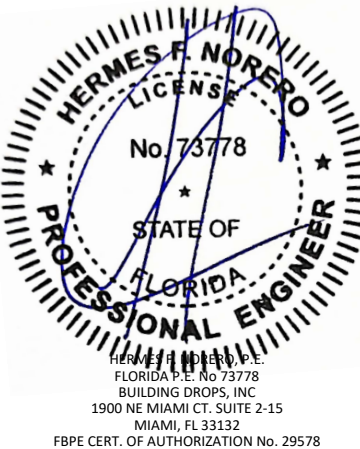
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MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744.4738
WEB: www.buildingdrops.com



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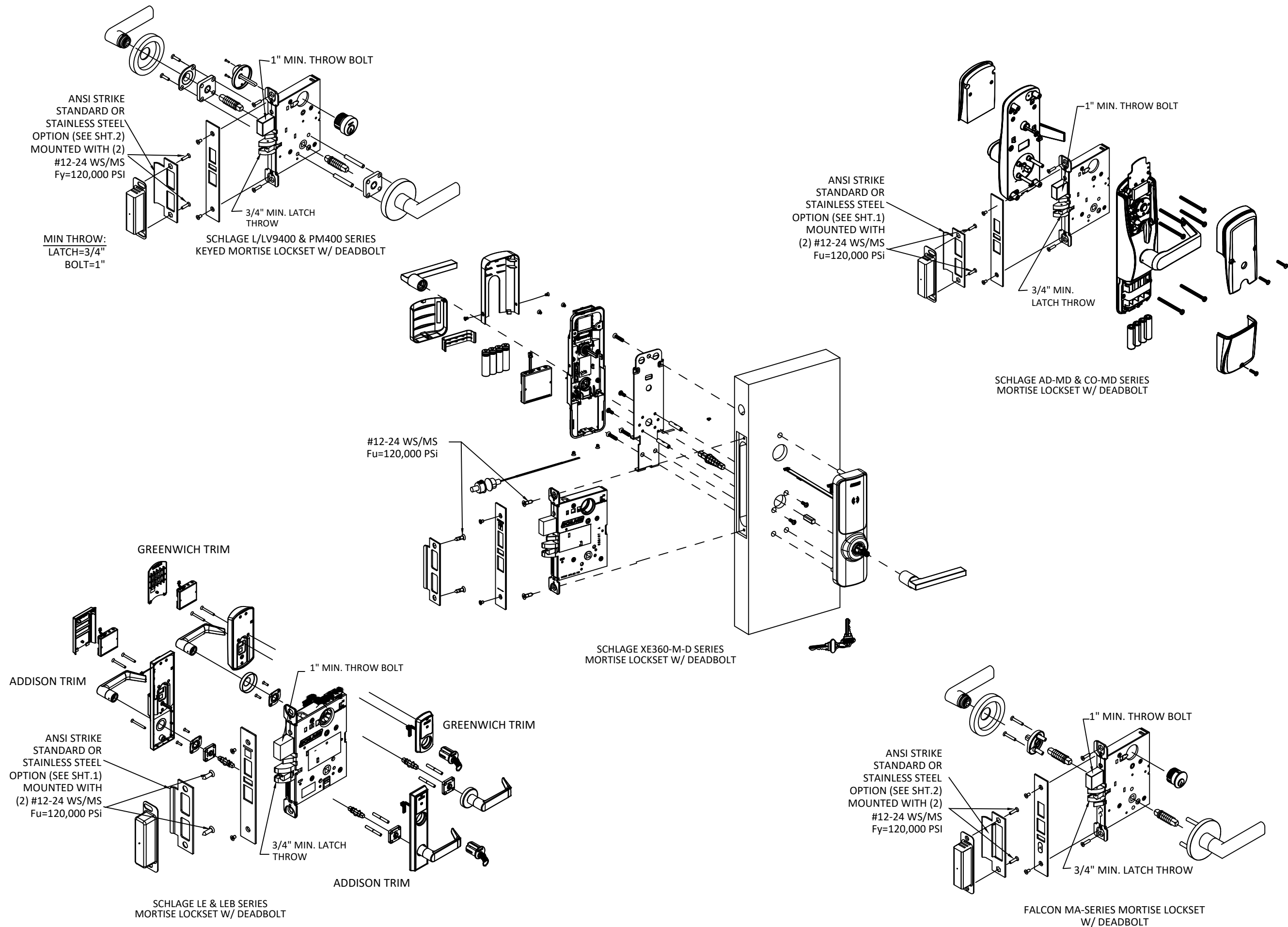
SCALE: NTS

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12

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PH: (317) 715-4073

TITLE: **SINGLE FLUSH
INSWING COMMERCIAL STEEL
DOOR W/ MORTISE LOCKS**

LATCH & STRIKE
HARDWARE DETAILS

PREPARED BY:

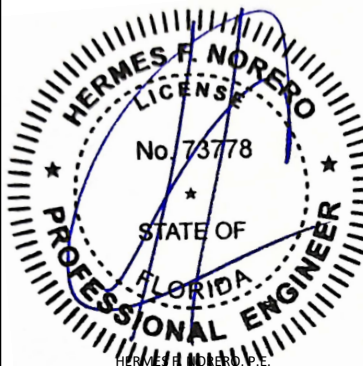
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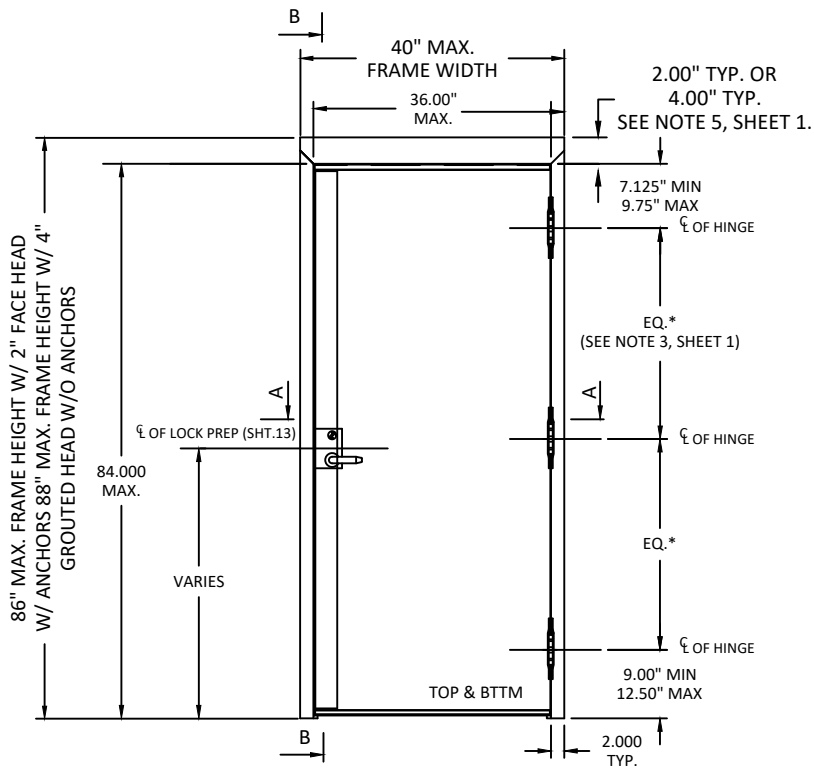
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DWG. #: **776W-3** | REV **O**

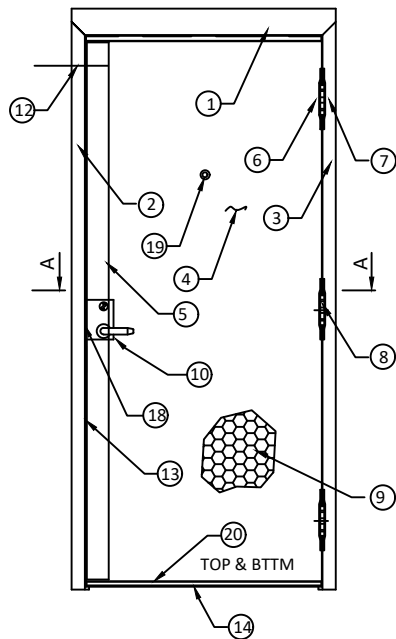
SHEET:

13

OF 20



INTERIOR ELEVATION - INSWING DOOR



INTERIOR ELEVATION - INSWING DOOR

TABLE 7. (FOR OPTION 1 SEE TABLE 1, SHEET 2)

ITEM	QUANTITY	DESCRIPTION	MATERIAL	SIZE
1	1	HEAD SEE SHT 3 & 16.	.053" MIN. STL	MAX. 40"
2	1	STRIKE JAMB SEE SHT 16.	.053" MIN. STL	MAX. 86"-88"
3	1	HINGE JAMB SEE SHT 16.	.053" MIN. STL	MAX. 86"-88"
4	1	DOOR SLAB	SEE SHT 4	3'0"(36") X 7'0"(84") MAX.
5	1	LOCK SIDE REINFORCEMENT CHANNEL SHT 15	.093" MIN. STL	3.5" X 81.44" MAX.
6	NOTE 3, SHT. 1	HINGE REINFORCEMENT DOOR SHT 15	.167" MIN. STL	1.23" X 9.19" MIN.
6A	NOTE 3, SHT. 1	HINGE REINFORCEMENT DOOR SHT 15	.053" MIN. STL.	1.67" - FULL HEIGHT-END CHNLS
6B	NOTE 3, SHT. 1	HINGE REINFORCEMENT DOOR SHT 15	.123" MIN. STL	1.375" X 4.5" MIN.
7	NOTE 3, SHT. 1	HINGE REINFORCEMENT FRAME SHT 11	.167" MIN. STL.	1.5" X 9.19"
8	NOTE 3, SHT. 1	4.5" MIN. BUTT HINGES (SEE SHT. 12)	.134 MIN.	(8) #12-24 MS PER HINGE
		OPTIONAL CONTINUOUS HINGE (SEE SHT. 12)	.075" MIN. STL /.11 ALUM.	MAX. 84"
9	1	CORE MATERIAL:	SEE SHEET 4	35.66" X 81.5" MAX.
		D) HONEYCOMB C) STEEL STIFFENED		
		A&F) POLYSTYRENE B&F) POLYURETHANE		
		E) MINERAL BOARD TEMPERATURE RISE CORE		
10	1	LOCKING HARDWARE - LOCKSET	SEE SHEET 13	
		1) SCHLAGE L/LV9400 SERIES MORTISE LOCK W/DEADBOLT		
		2) FALCON MA-SERIES MORTISE LOCK W/ DEADBOLT		
		3) SCHLAGE AD-MD & CO-MD SERIES MORTISE LOCK W/ DEADBOLT		
		4) SCHLAGE LE & LEB SERIES MORTISE LOCK W/ DEADBOLT		
		5) SCHLAGE XE360-M-D SERIES MORTISE LOCK W/ DEADBOLT		
11	1	THRESHOLD SILL W/BUMPER GASKET. SHT. 10 & 11	.125" ALUM. 6063 T5	5.5" X 0.5" X 36" MAX
		1) ZERO 566A 2) ZERO 568 3) ZERO 65		
		4) NAT'L GUARD 950	.078" ALUM. 6063 T5	
		5) NAT'L GUARD 803V	.105" ALUM. 6063 T5	
12	NOTE 2, SHT. 1	JAMB ANCHOR (LOCK-IN OR WELD-IN) MIN 18 GA	SEE SHTS. 17, 18 & 19	
13	3	A) PSO74 WEATHER STRIPPING. SHEET 5 & 10	TPE	MAX. 21'
		B) ZERO 188S C) ZERO 117S D) ZERO 8144S E) ZERO 8150S	SILICONE	
14	1	FAS-SEAL DOOR SWEEP	TPE	MAX. 35.66"
15	2	END CHANNEL (16 GAGE)	.053" MIN. STL	.62" X 1.67" X VARIES
16	AS NEEDED	BUTYL RUBBER OR SILICONE		
18	1	STRIKE REINFORCEMENT FRAME SHT 3	.053" MIN. STL	1.31" X 8.38"
19		IVES 698/U698 VIEWER SHT 11	BRASS	
20	2	EDGE CHANNEL REINFORCEMENT (16 GA MIN.)	.053" MIN. STL	-



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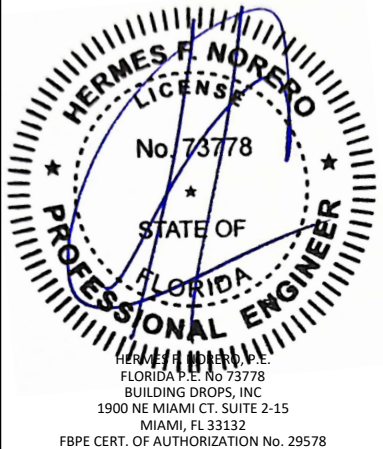
TITLE: **SINGLE FLUSH
INSWING COMMERCIAL STEEL
DOOR W/ MORTISE LOCKS**

REPUBLIC DOORS: OPENING
DIMENSIONS & BOM

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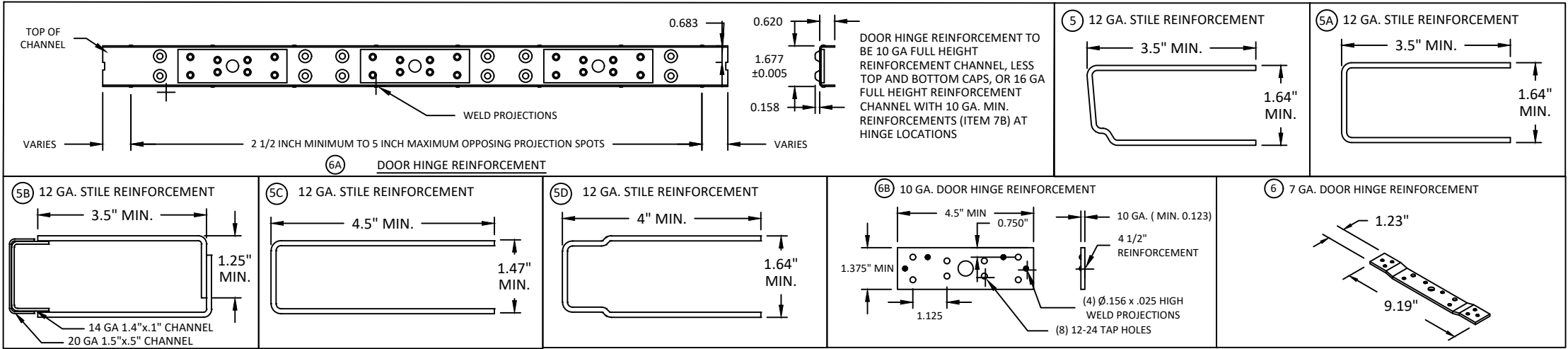


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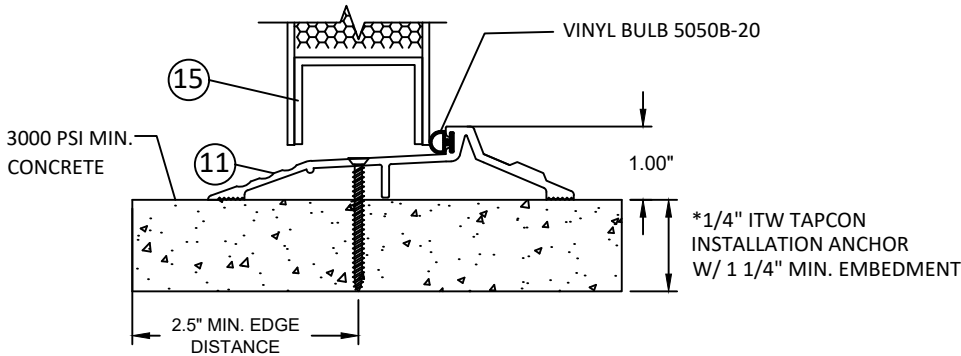
DATE: **03.31.23**
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14

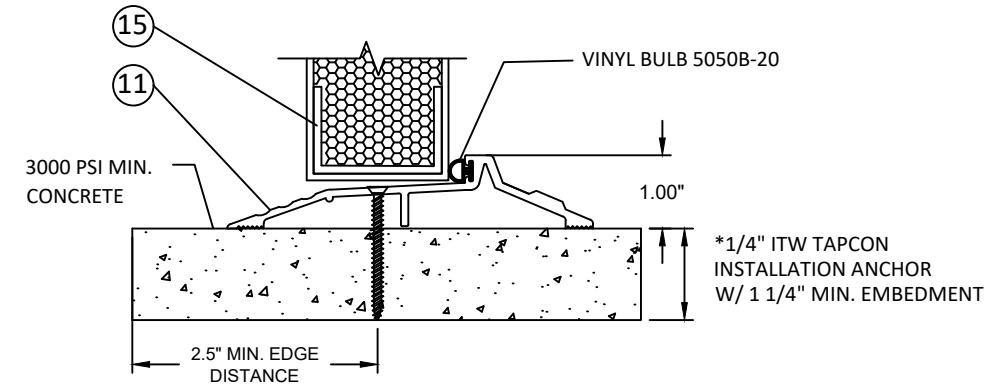
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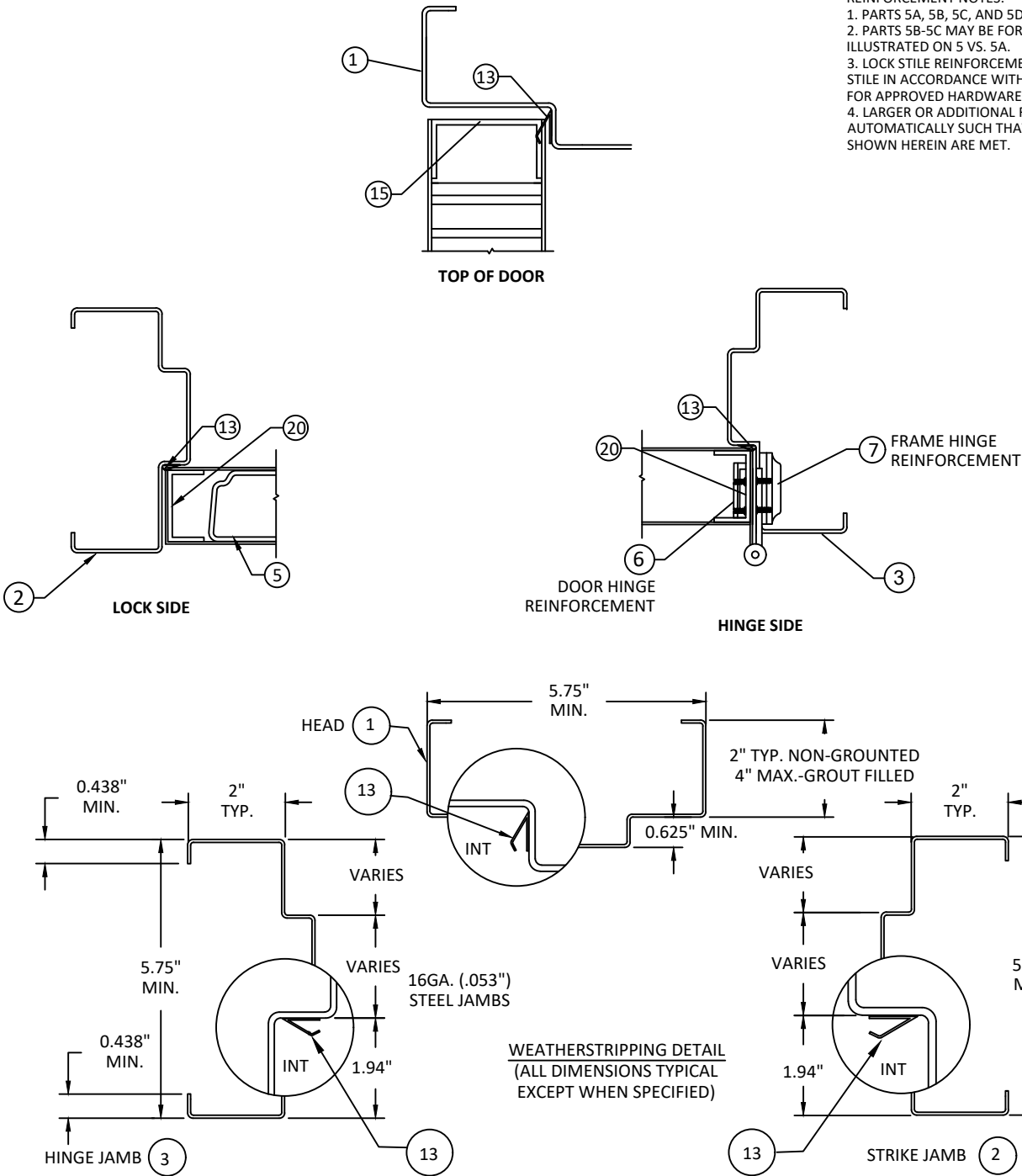
REINFORCEMENT NOTES:
1. PARTS 5A, 5B, 5C, AND 5D MAY BE USED IN LIEU OF PART 5
2. PARTS 5B-5C MAY BE FORMED WITH OR WITHOUT A BEVEL AS ILLUSTRATED ON 5 VS. 5A.
3. LOCK STILE REINFORCEMENT TO BE BACKSET FROM EDGE OF STILE IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS FOR APPROVED HARDWARE OPTIONS.
4. LARGER OR ADDITIONAL REINFORCING QUALIFIED AUTOMATICALLY SUCH THAT THE MINIMUM REQUIREMENTS SHOWN HEREIN ARE MET.



OPTIONAL THRESHOLD DETAIL (SILL) WITH
INVERTED BOTTOM RAIL



OPTIONAL THRESHOLD DETAIL (SILL) WITH
FLUSH BOTTOM RAIL



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TITLE: **SINGLE FLUSH
INSWING COMMERCIAL STEEL
DOOR W/ MORTISE LOCKS**

REPUBLIC DOORS: HINGES,
TRESHOLDS AND CHANNEL
REINFORCEMENT

PREPARED BY:

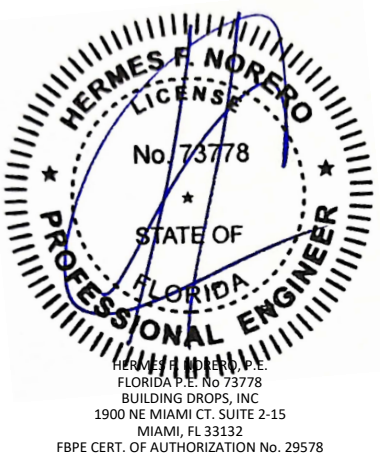
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15

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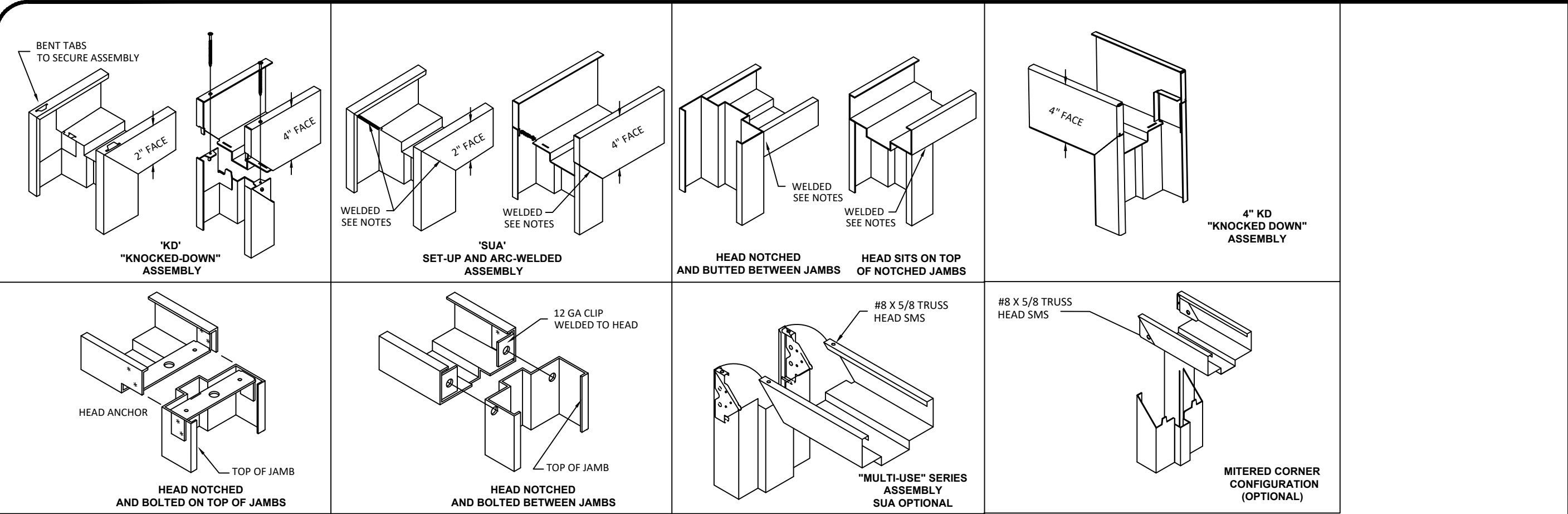


TABLE 8. STEEL MECHANICAL PROPERTIES.

MATERIAL	ASTM REF.	FRAME	
		YIELD (KSI)	TENSILE (KSI)
CRS	ASTM A1008	31.1 MIN.	41.5 MIN.
HRS	ASTM A1011	31.1 MIN.	41.5 MIN.
GALV	ASTM A924/653	31.1 MIN.	41.5 MIN.

TABLE 9. AVAILABLE REPUBLIC DOOR CONFIGURATIONS

REPUBLIC DOOR SERIES	DOOR CORE MATERIAL PER SHT. 4	MAX. OPENING SIZE		SKIN MATERIAL	
		WIDTH	HEIGHT	DESCR.	GA./MIN. THK
DL	HONEYCOMB POLYSTYRENE POLYURETHANE	3'-0"	7'-0"	CRS. GALV.	16/.053"
DE	(POLYISOCYANURATE) TEMPERATURE RISE STEEL STIFFENED	3'-0"	7'-0"	CRS. GALV.	16/.053" 14/.067"

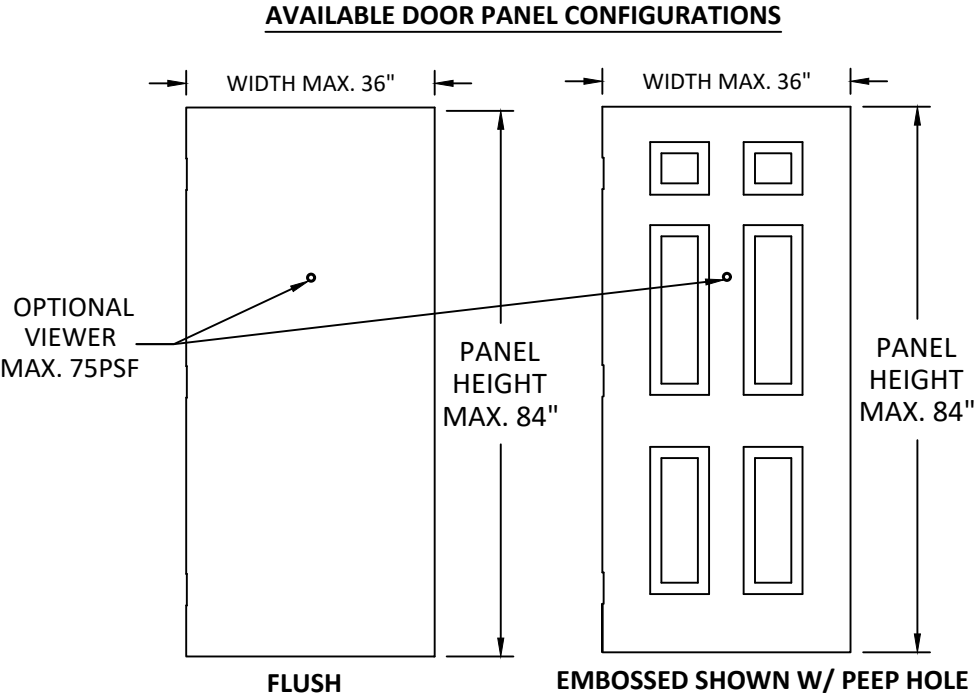
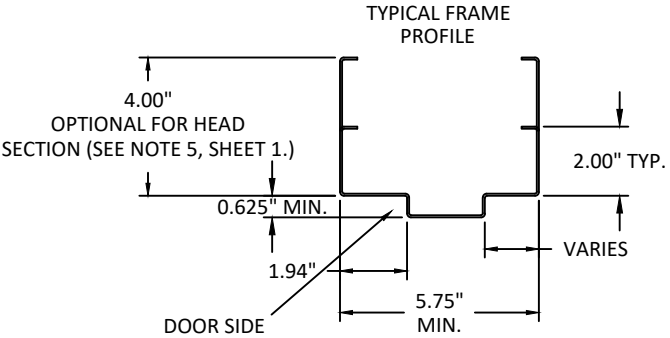


TABLE 10. AVAILABLE REPUBLIC FRAME CONFIGURATIONS (SEE CONSTRUCTION NOTE 2, SHEET 1.)

REPUBLIC FRAME SERIES	JAMB DEPTH	MAXIMUM OPENING SIZE		MATERIAL	
		WIDTH	HEIGHT	DESCR.	GA./MIN. THK
ME / SE	5.75" MIN.	3'0"	7'0"	CRS/HRS GALV	16/.053" 14/.067"
SE	5.75" MIN.	3'0"	7'0"	CRS/HRS GALV	12/.093"

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DOOR W/ MORTISE LOCKS**

REPUBLIC DOORS: FRAME DETAILS &
CORNER CONSTRUCTION

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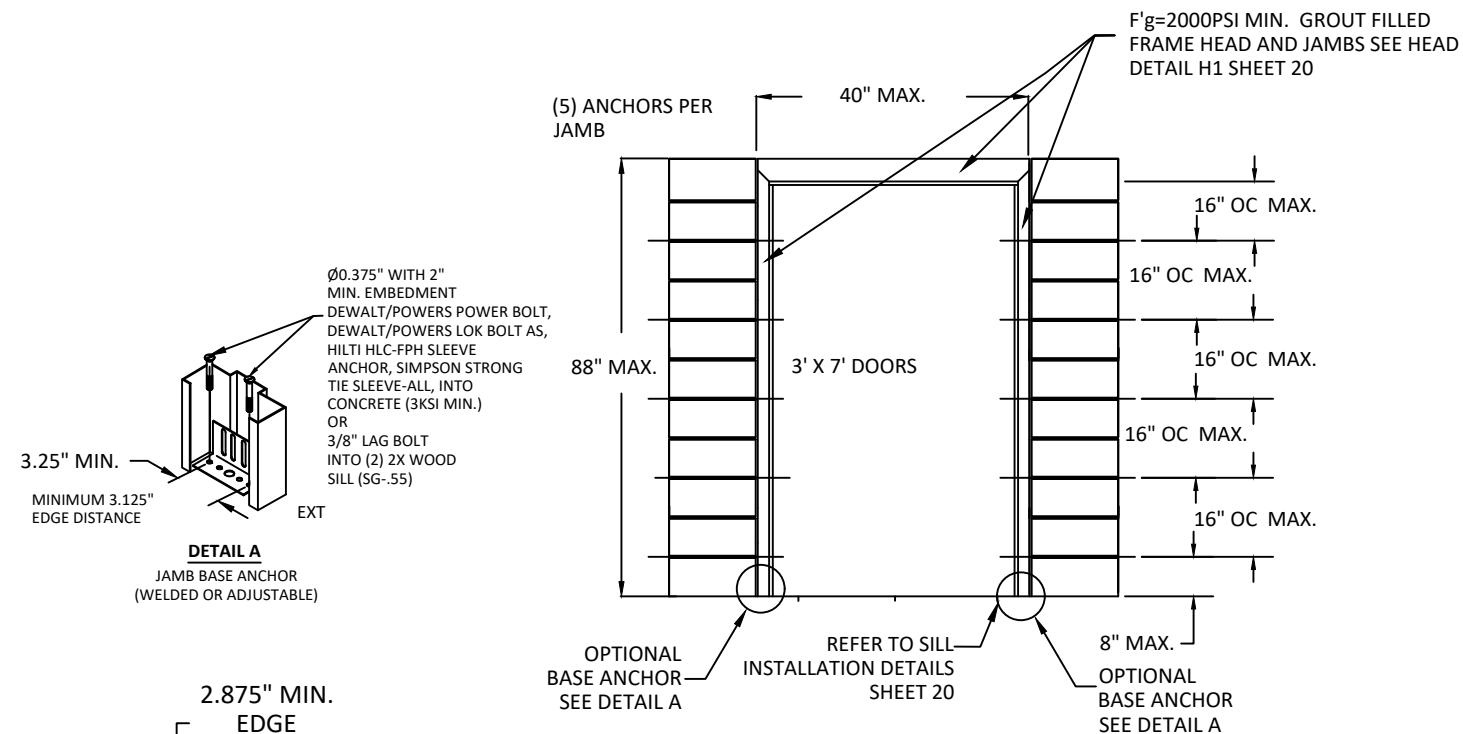
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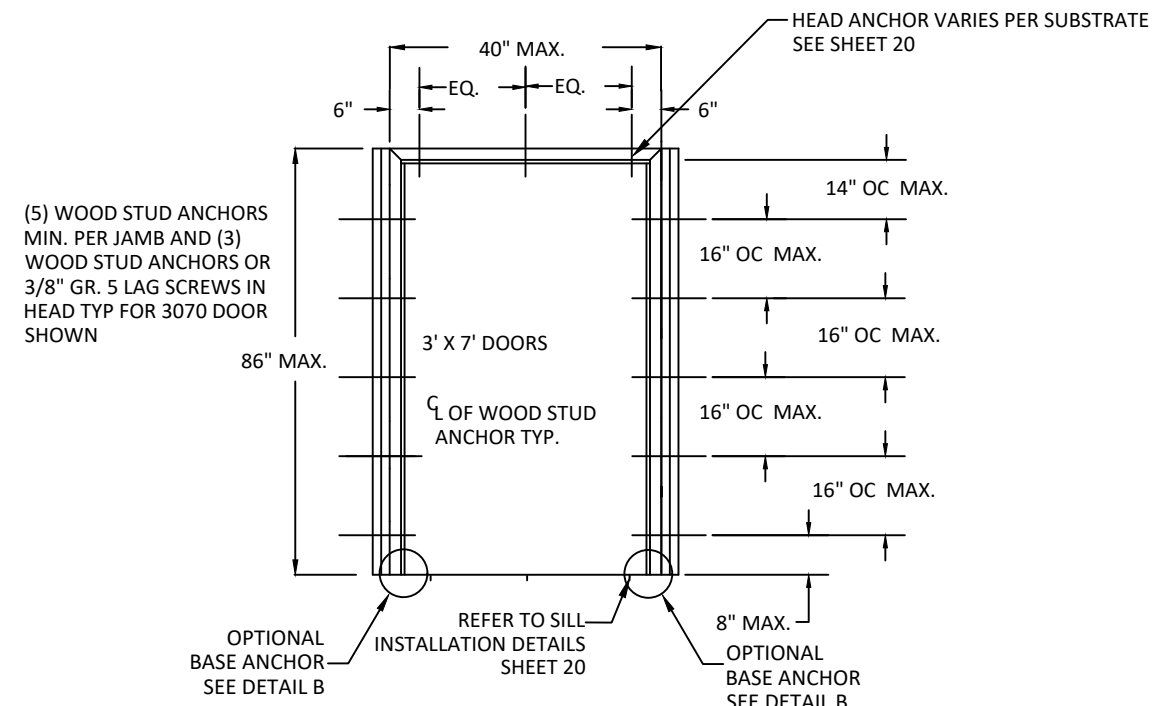
OF 20

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

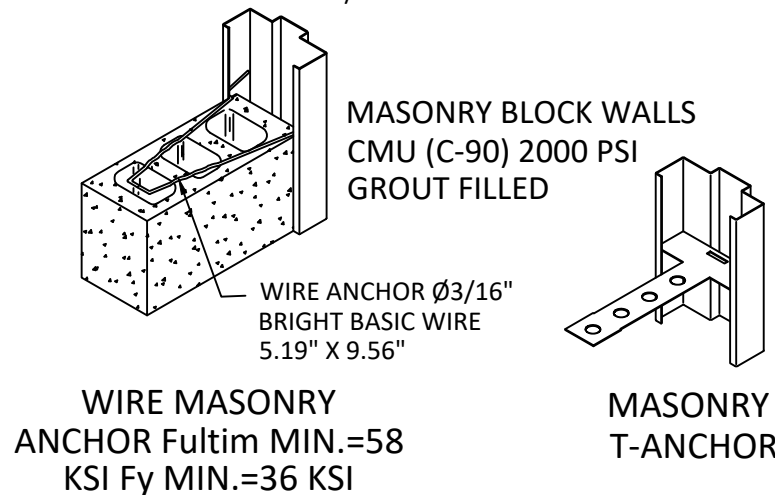
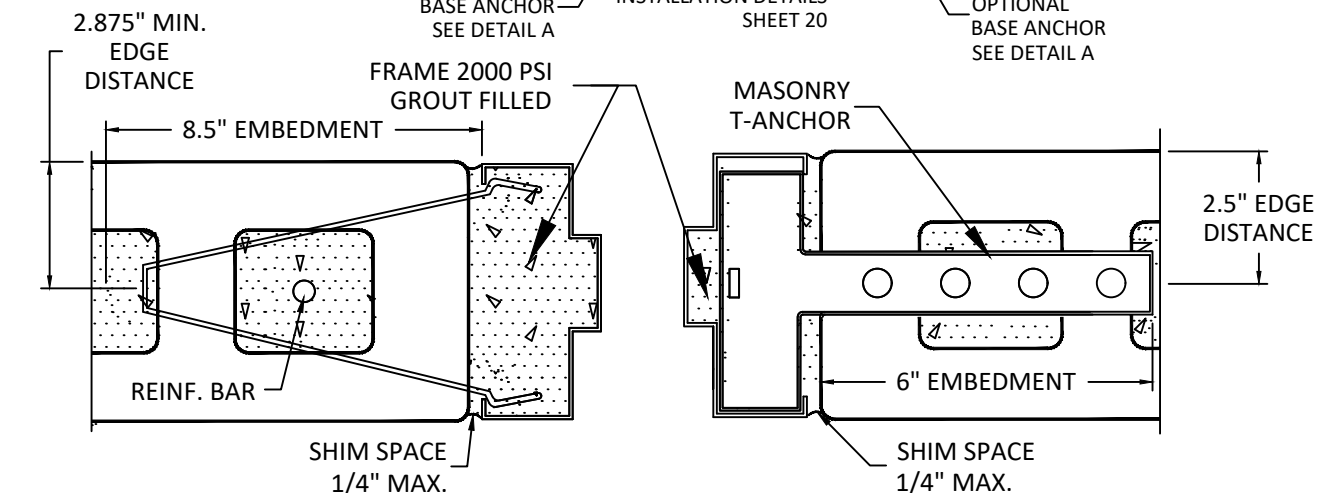
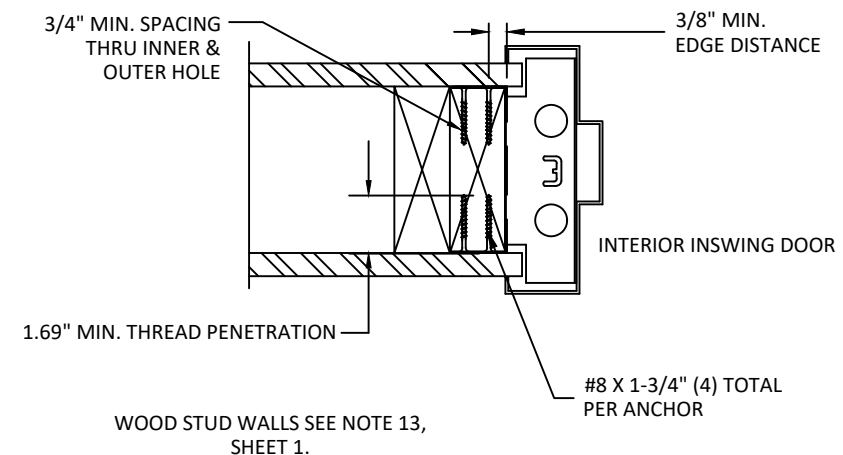
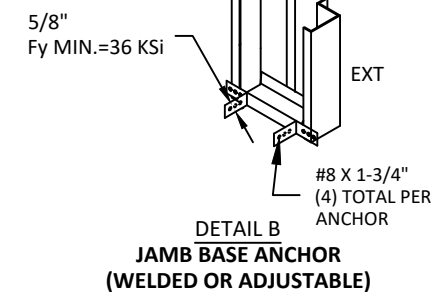
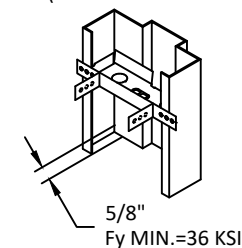


2 WOOD STUD ANCHOR

SEE PAGE 6 FOR
OPTION 1 ANCHOR
DETAILS



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



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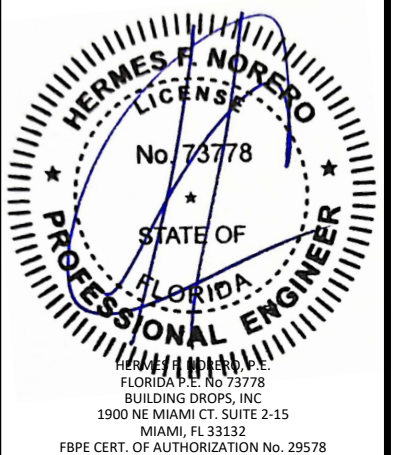
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INSWING COMMERCIAL STEEL
DOOR W/ MORTISE LOCKS**

REPUBLIC DOORS: ANCHORS - WIRE
OR T MASONRY & WOOD STUD

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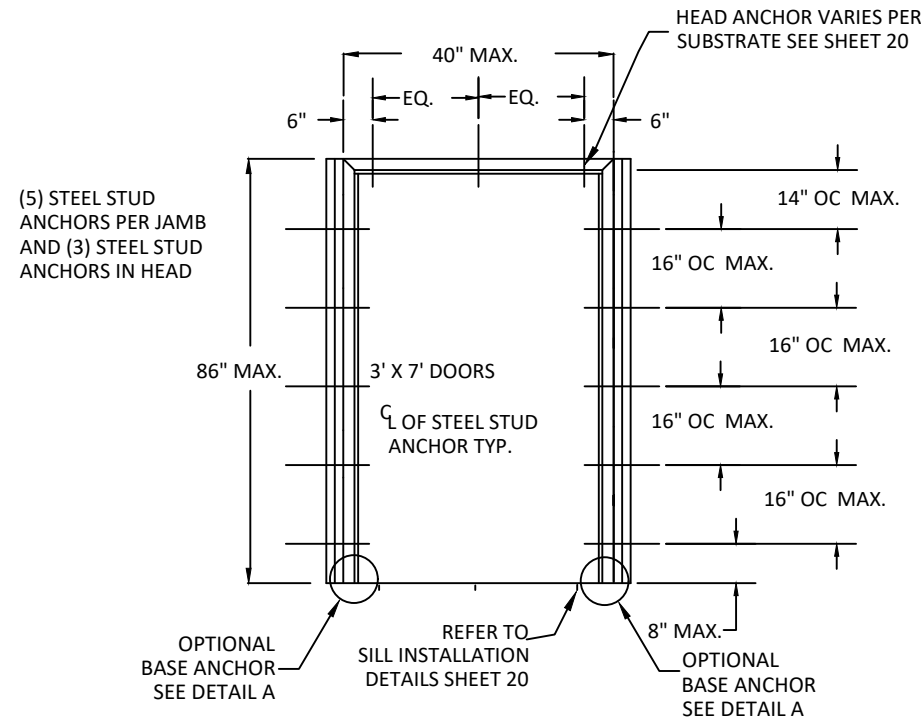
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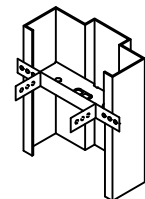
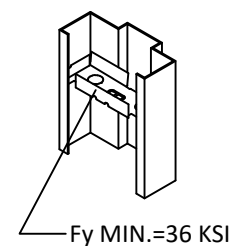
OF 20

3 STEEL STUD ANCHOR



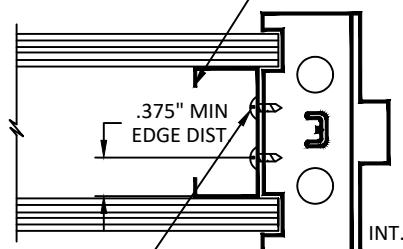
STEEL STUD ANCHOR
WELD-IN OR LOCK-IN

UNIVERSAL ANCHOR
WELD-IN OR LOCK-IN

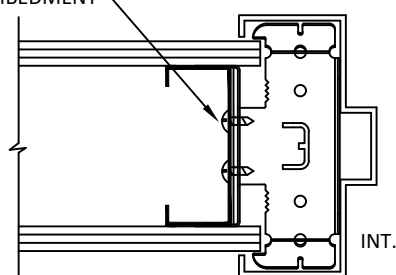


18 G.A. MIN. STEEL STUDS, MIN
F_y=33 KSI BY OTHERS

#12 X .75 GR. 5 SMS
(2) PER ANCHOR
0.69\"



STEEL STUD WALLS
SEE NOTE 13, SHEET 1.



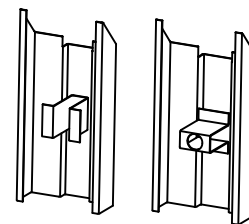
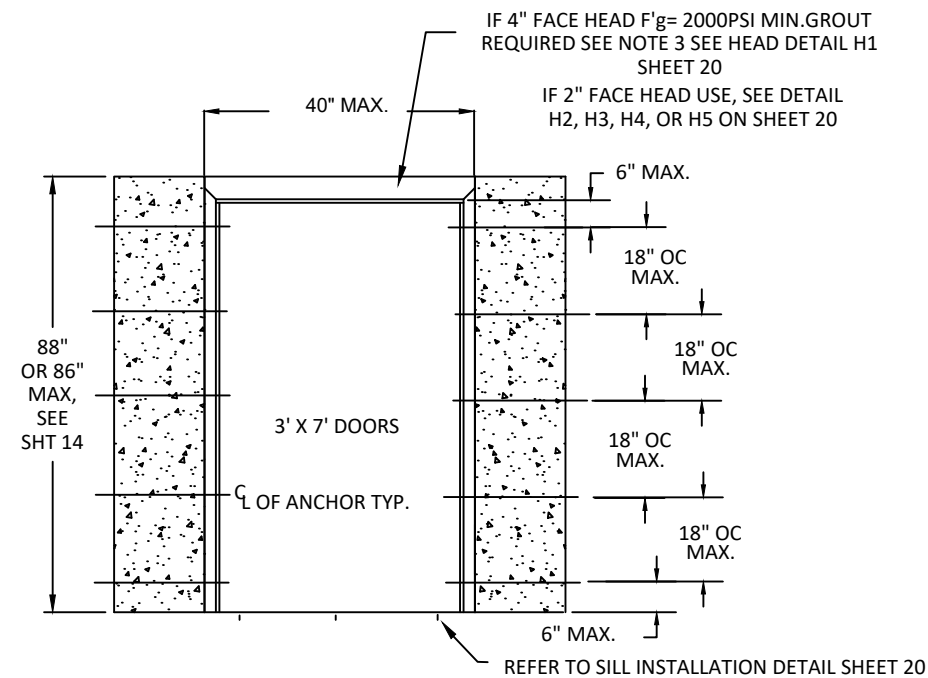
3.25\"

DETAIL A
JAMB BASE ANCHOR
(WELDED OR ADJUSTABLE)

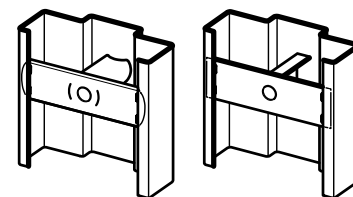
Ø0.375\"

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

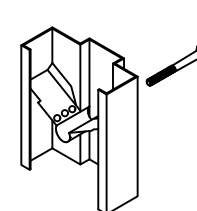
SEE PAGE 7 FOR
OPTION 1 ANCHOR
DETAILS



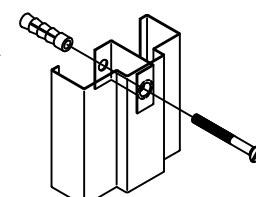
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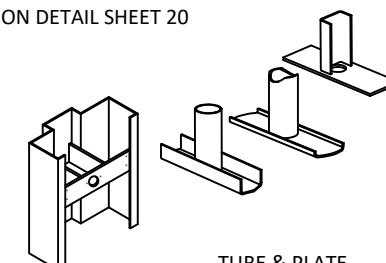
TUBE/CHANNEL &
PLATE BOLT-IN



LOCK-IN

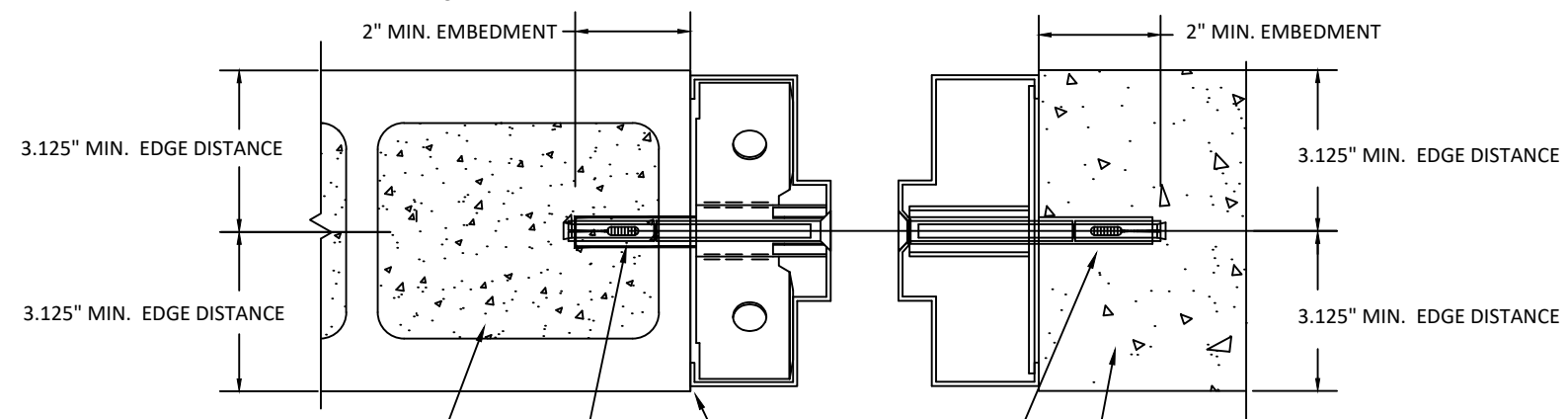


POA ANCHOR



TUBE AND STRAP

TUBE & PLATE
WELD-IN EMA
ANCHOR



MIN. 2000Psi GROUT
FILLED (C-90) CMU
BLOCK WALL

Ø0.375\"

SHIM SPACE
1/4\"

Ø0.375\"



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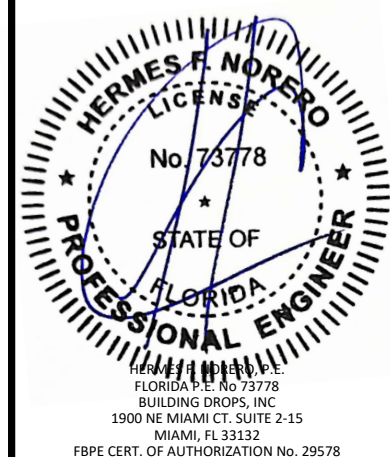
REPUBLIC DOORS: ANCHORS - STEEL
STUD & EMA IN CONCRETE OR CMU

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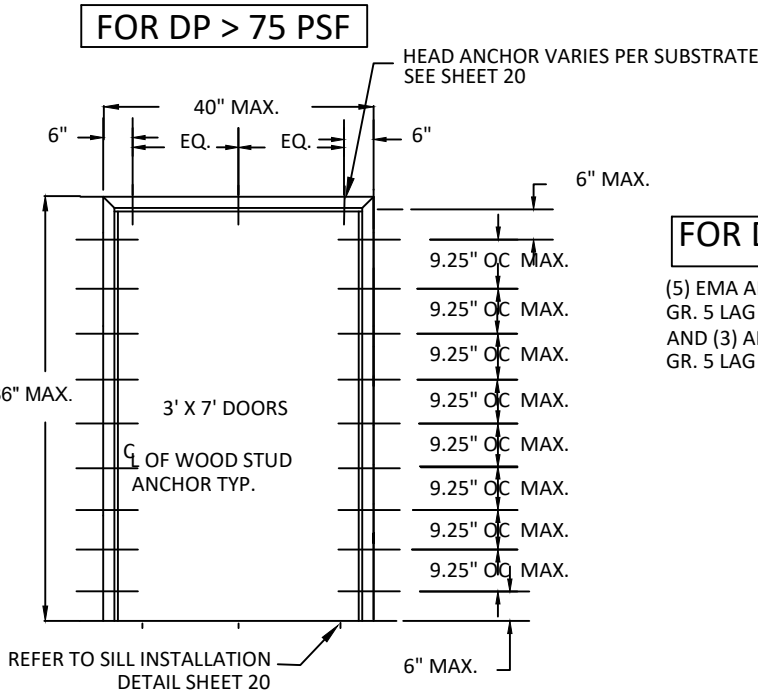
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18

OF 20

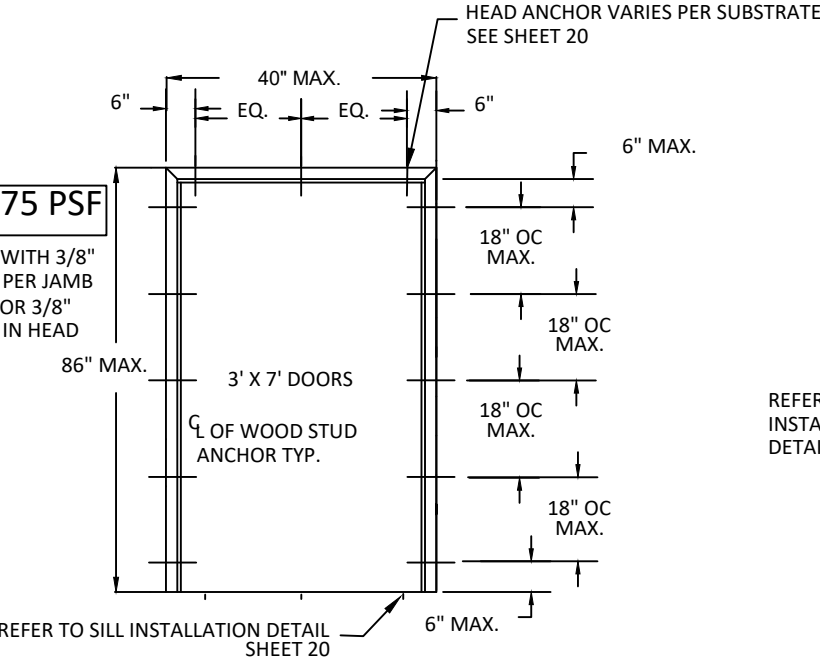
(9) EMA ANCHORS WITH 3/8" GR. 5 LAG SCREWS PER JAMB AND (3) ANCHORS OR 3/8" GR. 5 LAG SCREWS IN HEAD

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



FOR DP ≤ 75 PSF

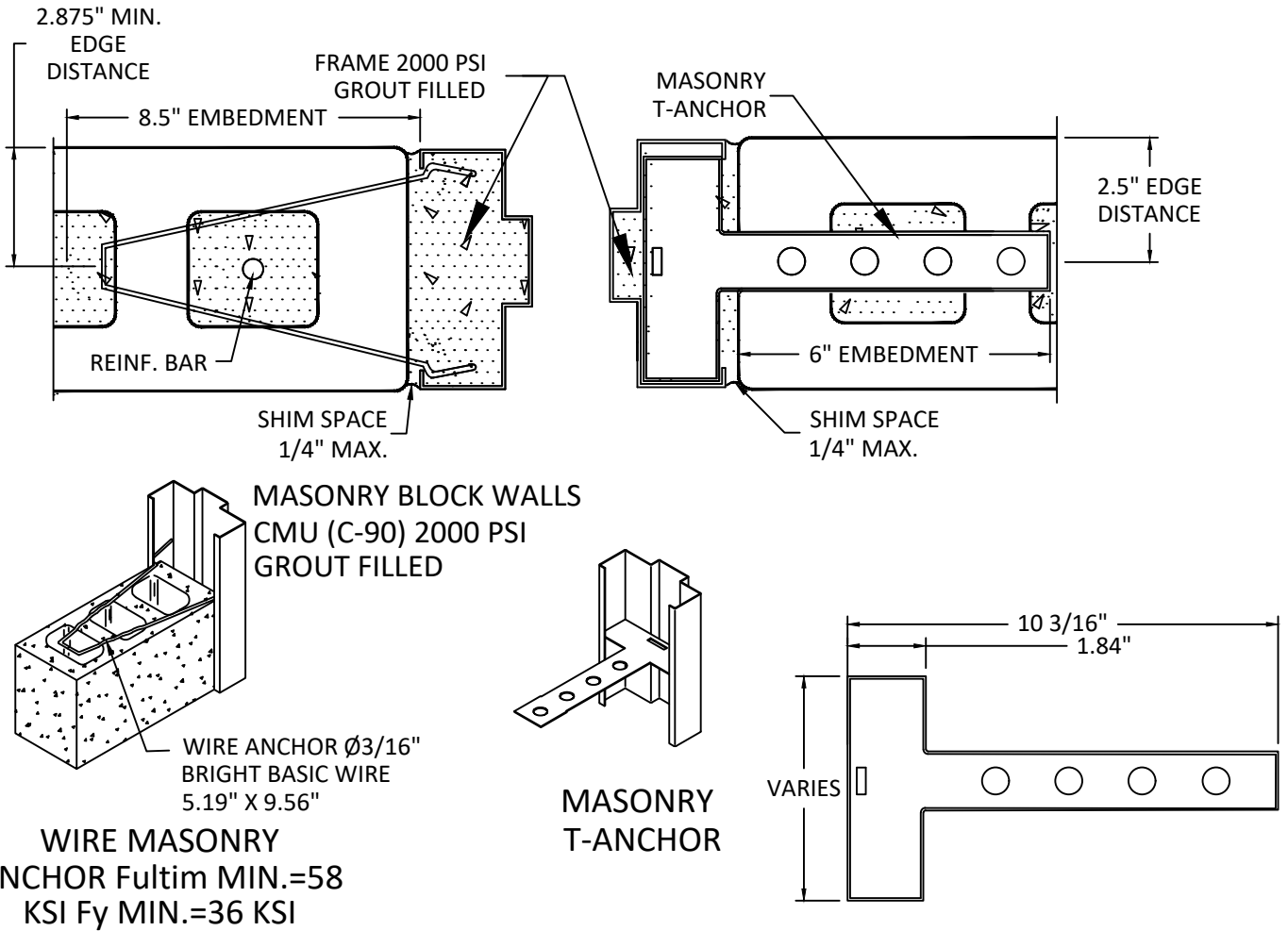
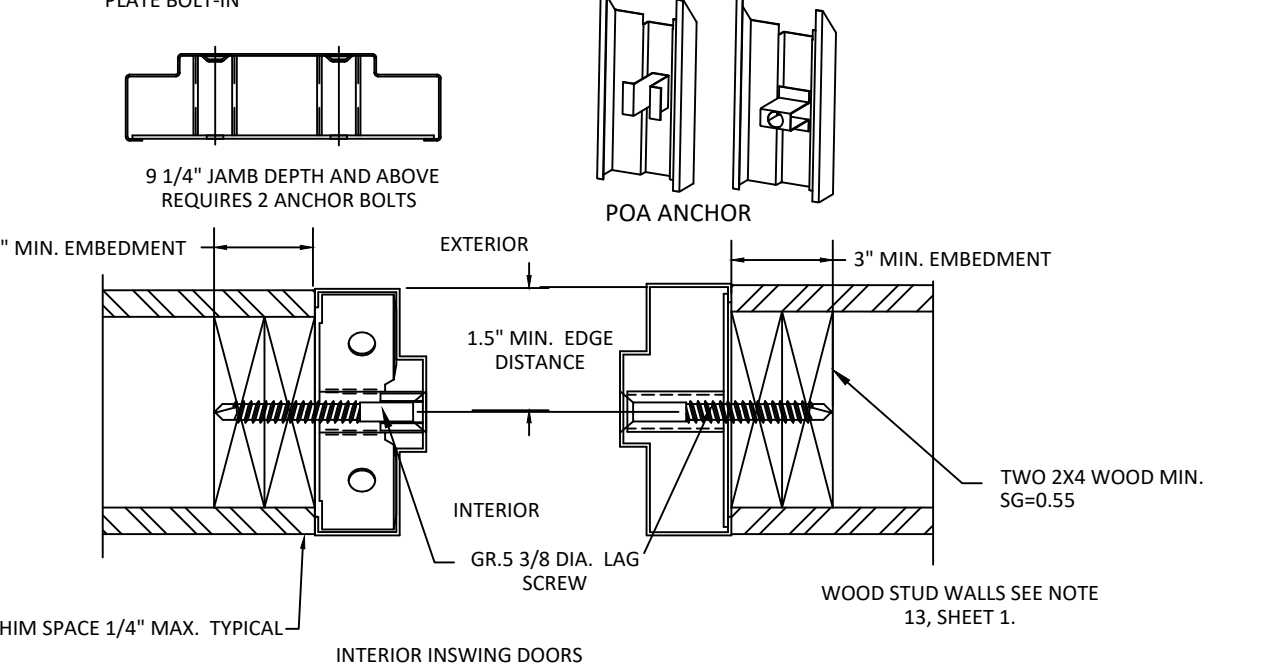
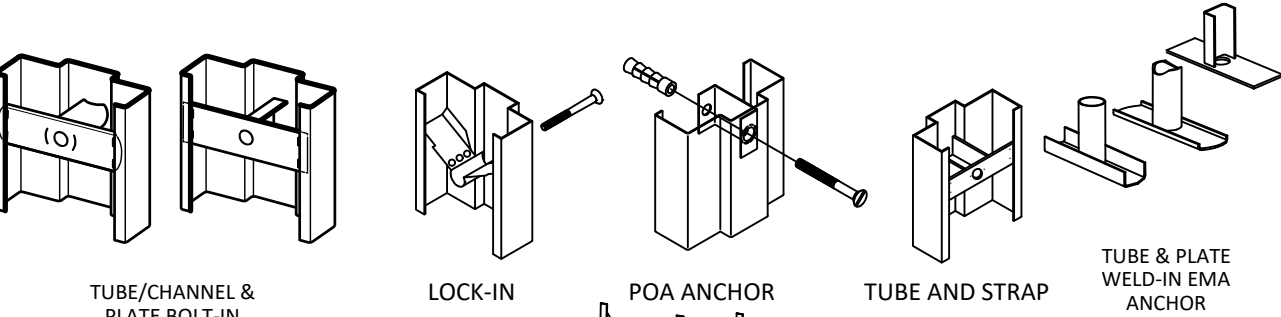
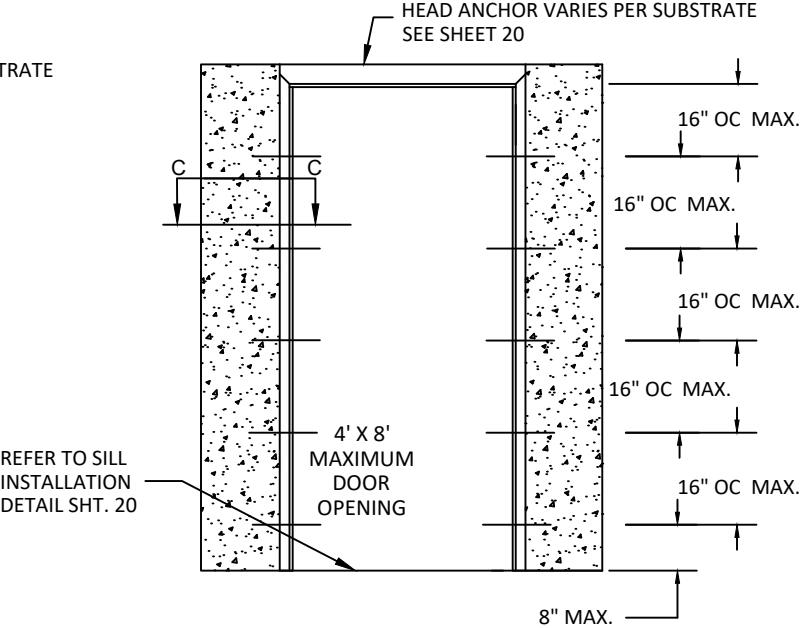
(5) EMA ANCHORS WITH 3/8" GR. 5 LAG SCREWS PER JAMB AND (3) ANCHORS OR 3/8" GR. 5 LAG SCREWS IN HEAD



6

POURED CONCRETE TILT UP WALL

SEE PAGE 8 FOR OPTION 1 ANCHOR DETAILS



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

TITLE: SINGLE FLUSH INSWING COMMERCIAL STEEL DOOR W/ MORTISE LOCKS

REPUBLIC DOORS: ANCHORS - EMA IN WOOD STUD & POURED CONCRETE TILT UP WALL

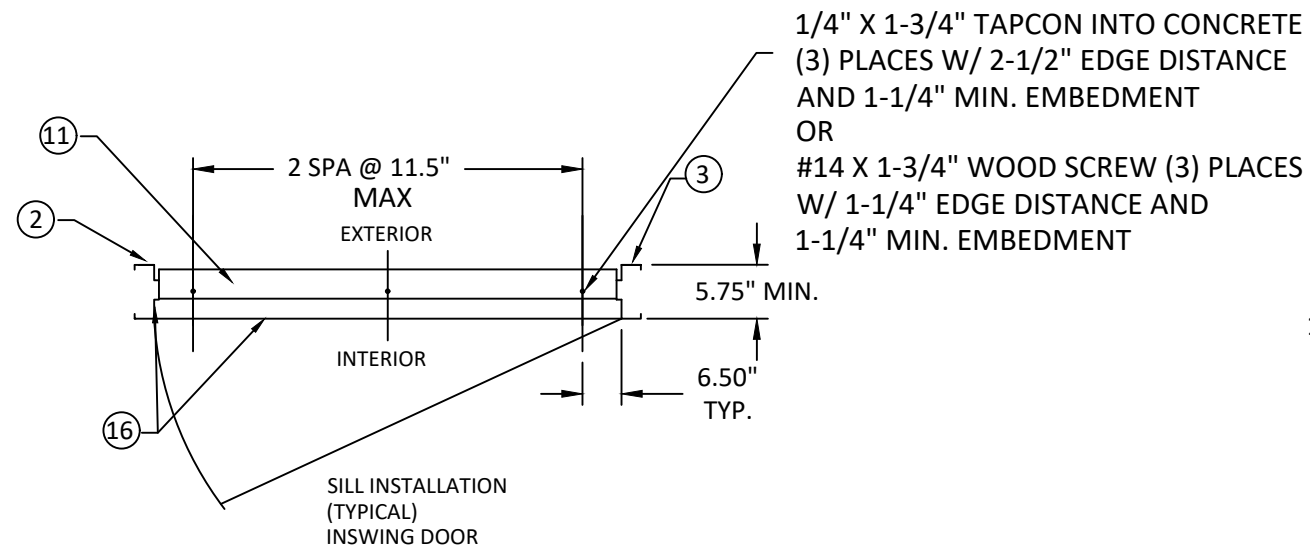
PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI CT. SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744.4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
2020 FBC UPDATE	SM	07.05.20
FORMAT UPDATE	DI	03.31.23
LOCK ADDITION	MG	10.05.23
LOCK UPDATE	JA	12.05.24

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.

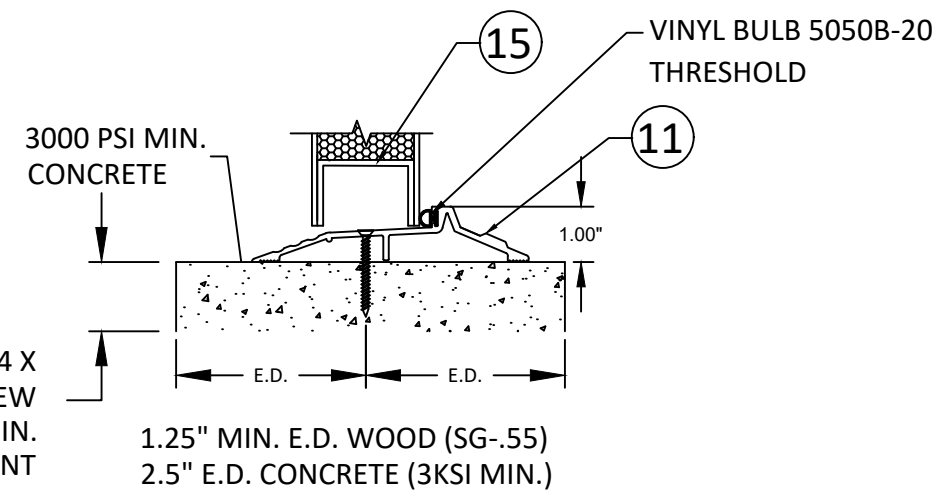
HERMES F. NORERO
LICENSE
No. 73778
STATE OF FLORIDA
PROFESSIONAL ENGINEER
HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC.
1900 NE MIAMI CT. SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL3905
DATE: 03.31.23
DWG. BY: DI
CHK. BY: HFN
SCALE: NTS
DWG. #: 776W-3
REV O
SHEET:

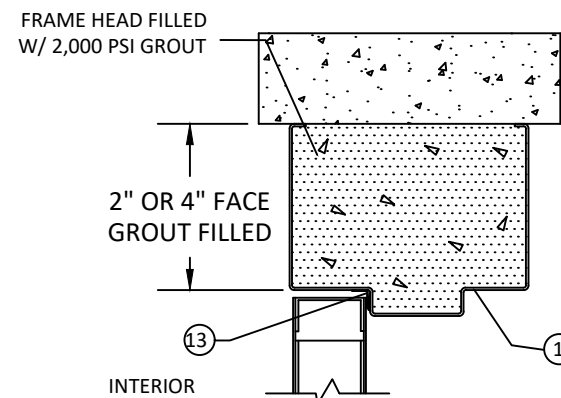


INTERIOR

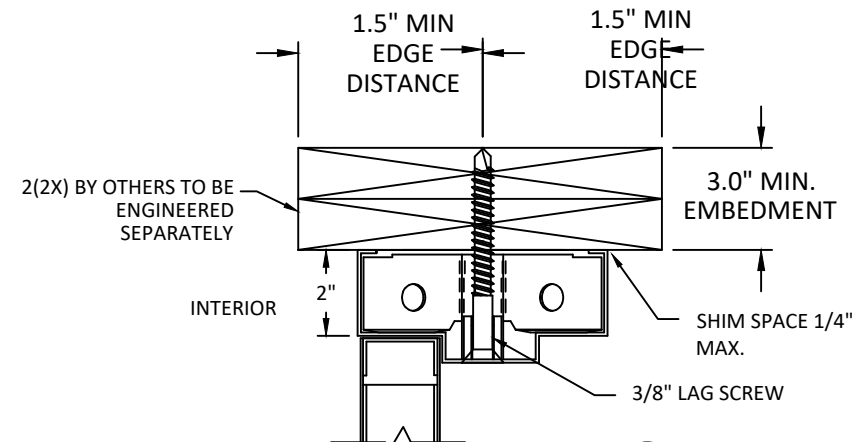
1/4" X 1-3/4" TAPCON OR #14 X 1-3/4" WOOD SCREW 1.25" MIN. EMBEDMENT



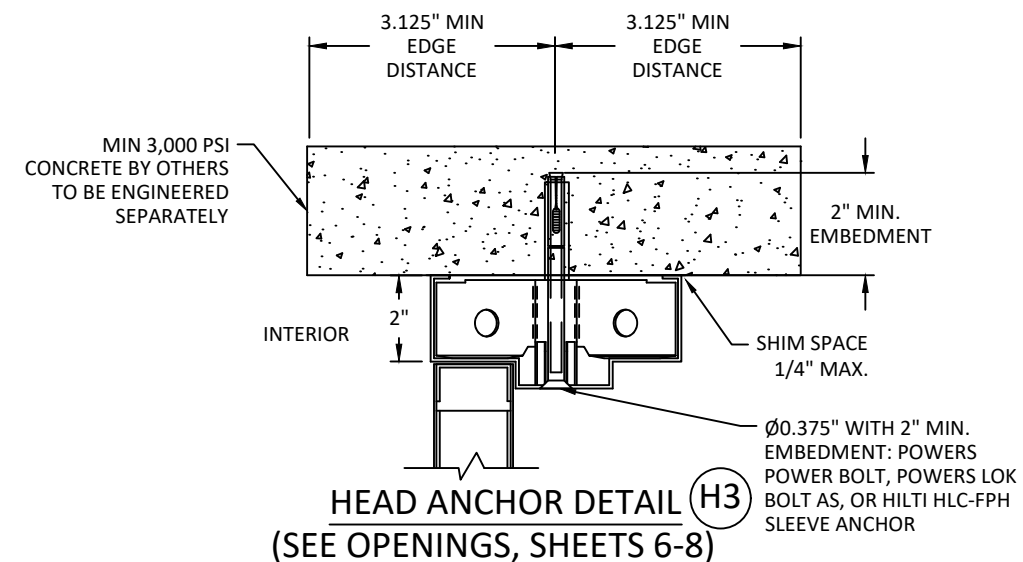
SILL DETAIL 'TH' (SIDEVIEW)
WOOD OR CONCRETE SILL
E.D. - EDGE DISTANCE



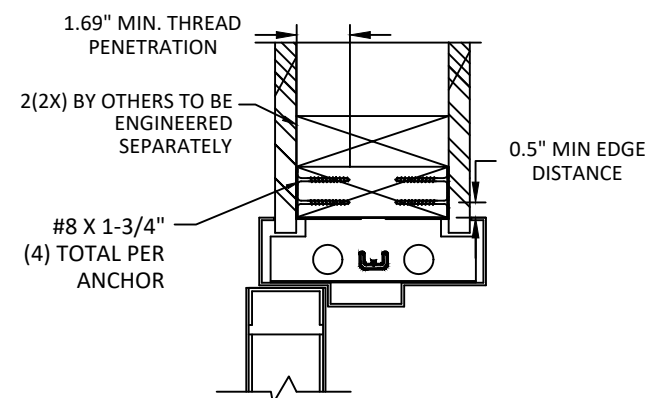
HEAD WITHOUT ANCHOR DETAIL (H1)
(SEE OPENINGS, SHEETS 6-8)



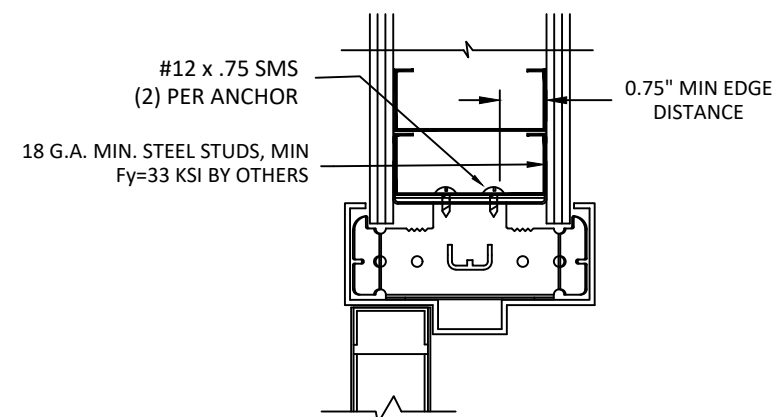
HEAD ANCHOR DETAIL (H2)
(SEE OPENINGS, SHEETS 6-8)



HEAD ANCHOR DETAIL (H3)
(SEE OPENINGS, SHEETS 6-8)



HEAD ANCHOR DETAIL (H4)
(SEE OPENINGS, SHEETS 6-8)



HEAD ANCHOR DETAIL (H5)
(SEE OPENINGS, SHEETS 6-8)



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

TITLE: SINGLE FLUSH
INSWING COMMERCIAL STEEL
DOOR W/ MORTISE LOCKS

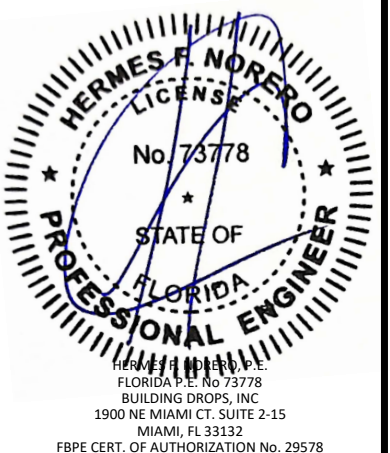
REPUBLIC DOORS: FRAME HEAD &
SILL ANCHOR DETAILS

PREPARED BY:

BUILDING DROPS, INC.
1900 NE MIAMI CT. SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
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FL3905

DATE: 03.31.23

DWG. BY:
DI

CHK. BY:
HFN

SCALE: NTS

DWG. #: 776W-3 | REV O

SHEET:

20

OF 20