

GENERAL NOTES AND SPECIFICATIONS:

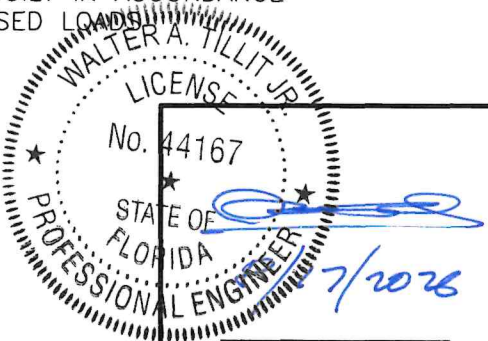
1. SERIES LS20GA FLUSH COMMERCIAL STEEL OUTSWING DOOR SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D) HAS BEEN VERIFIED FOR CODE COMPLIANCE IN ACCORDANCE WITH THE **2026 (9th EDITION)** OF THE FLORIDA BUILDING CODE. DOOR MAY BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES.
- DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTIONS **1620 & 1609** OF THE ABOVE MENTIONED CODE, USING **ASCE 7-22** AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON SHEET 2.
- IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER **ASCE 7-22** SHALL FIRST BE REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE WITH MAX. (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON SHEET 2.
- THIS DOOR'S ADEQUACY FOR WIND AND IMPACT LOAD HAS BEEN VERIFIED IN ACCORDANCE WITH SECTIONS 1626 & 1609.1.2 OF THE ABOVE MENTIONED CODE AS PER PROTOCOLS TAS-201, TAS-202, TAS-203 AS PER FENESTRATION TESTING LABORATORY, INC. REPORT # 8974, AND AS PER SUBMITTED STRUCTURAL CALCULATIONS, PERFORMED AS PER SECTIONS **1616 & 1604** OF THE FLORIDA BUILDING CODE.
2. ALL COMPONENTS SHALL BE AS SPECIFIED ON APPLICABLE DETAIL SHEETS AND AT THE BILL OF MATERIALS (SHEET 5) OF THIS DRAWING.
3. COMPLIANCE OF EGRESS / ESCAPE REQUIREMENTS OF THESE DOORS PER FLORIDA BUILDING CODE SHALL BE DETERMINED BY BUILDING OFFICIALS ON A CASE-BY-CASE BASIS.
4. ALL SCREWS USED FOR ASSEMBLY CONNECTIONS (METAL TO METAL) SHALL BE STAINLESS STEEL 304 OR 316 AISI SERIES OR CORROSION RESISTANT COATED CARBON STEEL AS PER DIN 50018 WITH 50 ksi YIELD POINT AND 90 ksi TENSILE STRENGTH & SHALL COMPLY WITH FLORIDA BUILDING CODE SECTIONS **2411.3.3.4 & 1711**.
5. ALL WELDING SHALL CONFORM WITH AMERICAN WELDING SOCIETY A.W.S. D.1.3 AND D-19.0 REGULATIONS WITH E60XX ELECTRODES, FOR GALVANNEAL MATERIAL, AND WITH AMERICAN WELDING SOCIETY A.W.S. D.1.6 REGULATIONS WITH E-308 ELECTRODES (FU=80k.s.i.) FOR STAINLESS STEEL MATERIAL
6. ALL ANCHORS FOR DOOR FRAME CONNECTIONS TO EXISTING STRUCTURE SHALL BE AS SPECIFIED ON SHEET 13 OF THIS DRAWING.
MAXIMUM ANCHOR SPACINGS SHALL BE AS PER ELEVATIONS ON SHEET 3 OF THIS DRAWING, AND SHALL COMPLY WITH SECTION 1711 OF THE FLORIDA BUILDING CODE.
7. PROVIDE MAX. LOAD BEARING SHIM SPACE AS INDICATED ON SHEET 13.
8. THIS DOOR WILL NOT REQUIRE A HURRICANE PROTECTION DEVICE.
9. THESE DOOR ASSEMBLIES ARE APPROVED FOR WATER AND AIR INFILTRATION AS PER THE TESTING INDICATED ON GENERAL NOTE 1, AND SHALL BE LIMITED TO DESIGN PRESSURE RATINGS INDICATED ON SHEET 2.
10. PROVIDE SPECIFIED SEALANT AT ALL DOOR FRAME & THRESHOLD COMPONENTS INDICATED ON THIS DRAWING.
11. ALL EXISTING WALLS (STRUCTURE) WHERE THE DOOR IS TO BE INSTALLED MUST BE BUILT IN ACCORDANCE WITH THE FLORIDA BUILDING CODE AND SHALL BE DESIGNED TO SUSTAIN THE SUPERIMPOSED LOADS TRANSFERRED BY THE DOOR SYSTEM.

12. THE PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO SUSTAIN THE SUPERIMPOSED LOADS TRANSFERRED BY THESE DOORS.
13. (a) THIS PRODUCT EVALUATION DOCUMENT (P.E.D) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE-SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.
- (b) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT, BASED ON THIS P.E.D., PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT THE SITE IS THE CONTRACTOR'S RESPONSIBILITY.
- (c) THIS PRODUCT EVALUATION DOCUMENT (P.E.D) WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- (d) THE ORIGINAL P.E.D SHALL BEAR THE DATE, SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD WHO PREPARED IT.
14. PRODUCT MANUFACTURER'S LABEL SHALL BE LOCATED AT A READILY VISIBLE LOCATION ON THE PRODUCT IN ACCORDANCE WITH SECTION 1709.5 OF THE FLORIDA BUILDING CODE.
ONE LABEL SHALL BE PLACED FOR EVERY OPENING.
15. EXPANDED POLYSTYRENE CORE SHALL BE RIGID BOARD TYPE 1 PCF CONFORMING TO ASTM C578 BY DYPLAST PRODUCTS LLC, WITH CURRENT MIAMI DADE COUNTY PRODUCT CONTROL EVALUATION (NOA).

SHEETS CONTENT:

SHEET #1	INDEX, COVER SHEET & GENERAL NOTES.
SHEET #2	ASSEMBLY ELEVATIONS.
SHEET #3	ANCHOR ELEVATIONS.
SHEET #4	OPTIONAL EMBOSSED DOOR SLAB.
SHEET #5	BILL OF MATERIALS.
SHEETS #6-#8	COMPONENTS.
SHEET #9	VERTICAL SECTIONS.
SHEETS #10-12	HORIZONTAL SECTIONS AT HARDWARE.
SHEET #13	ANCHOR SECTIONS.
SHEET #14	DOOR SURFACE CLOSER REINFORCEMENT AND END CHANNEL ASSEMBLY DETAIL + CORNER DETAILS.

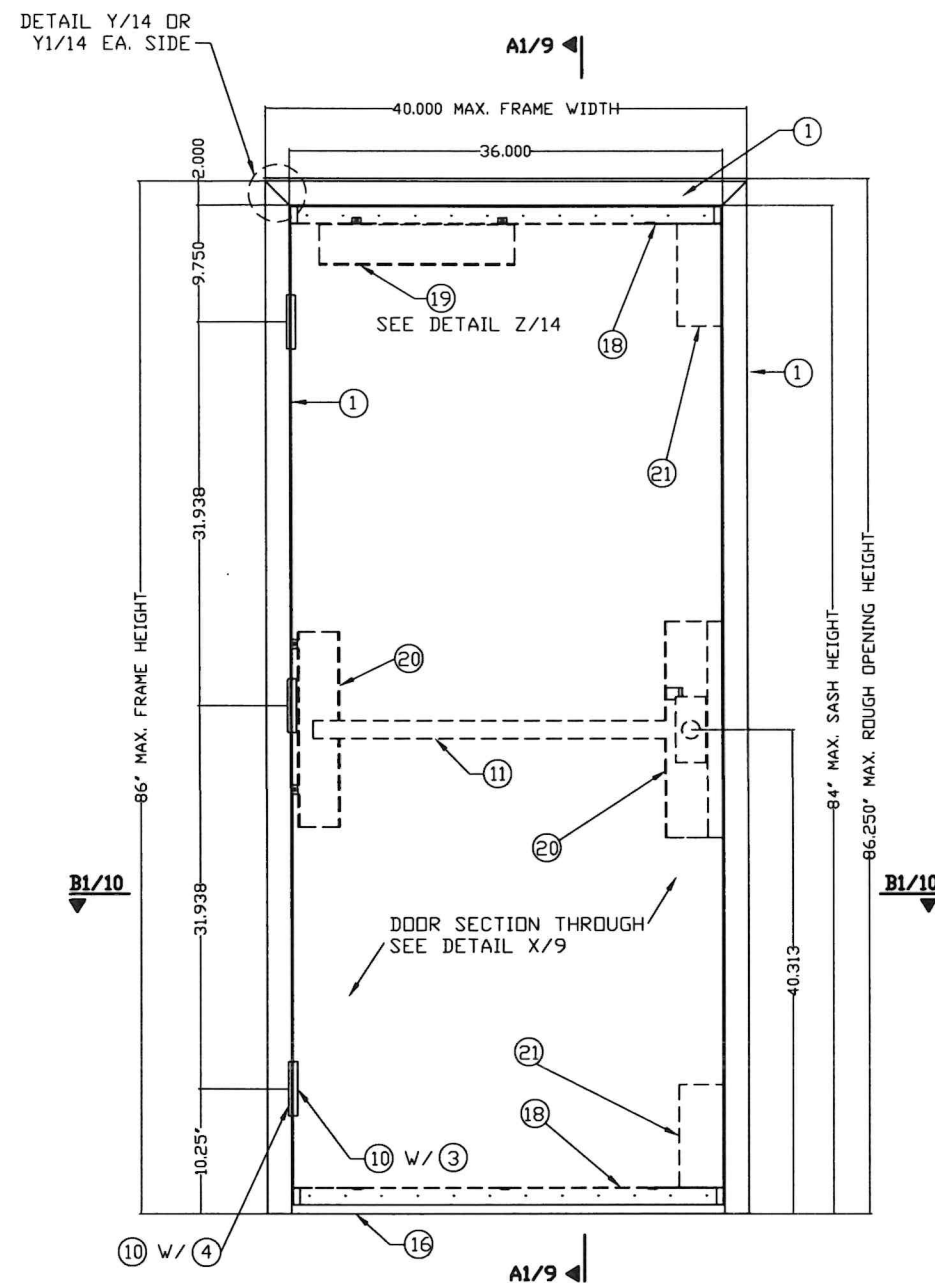
THIS DRAWING SHALL ONLY BE USED TO
OBTAIN PERMITS IN THE STATE OF FLORIDA



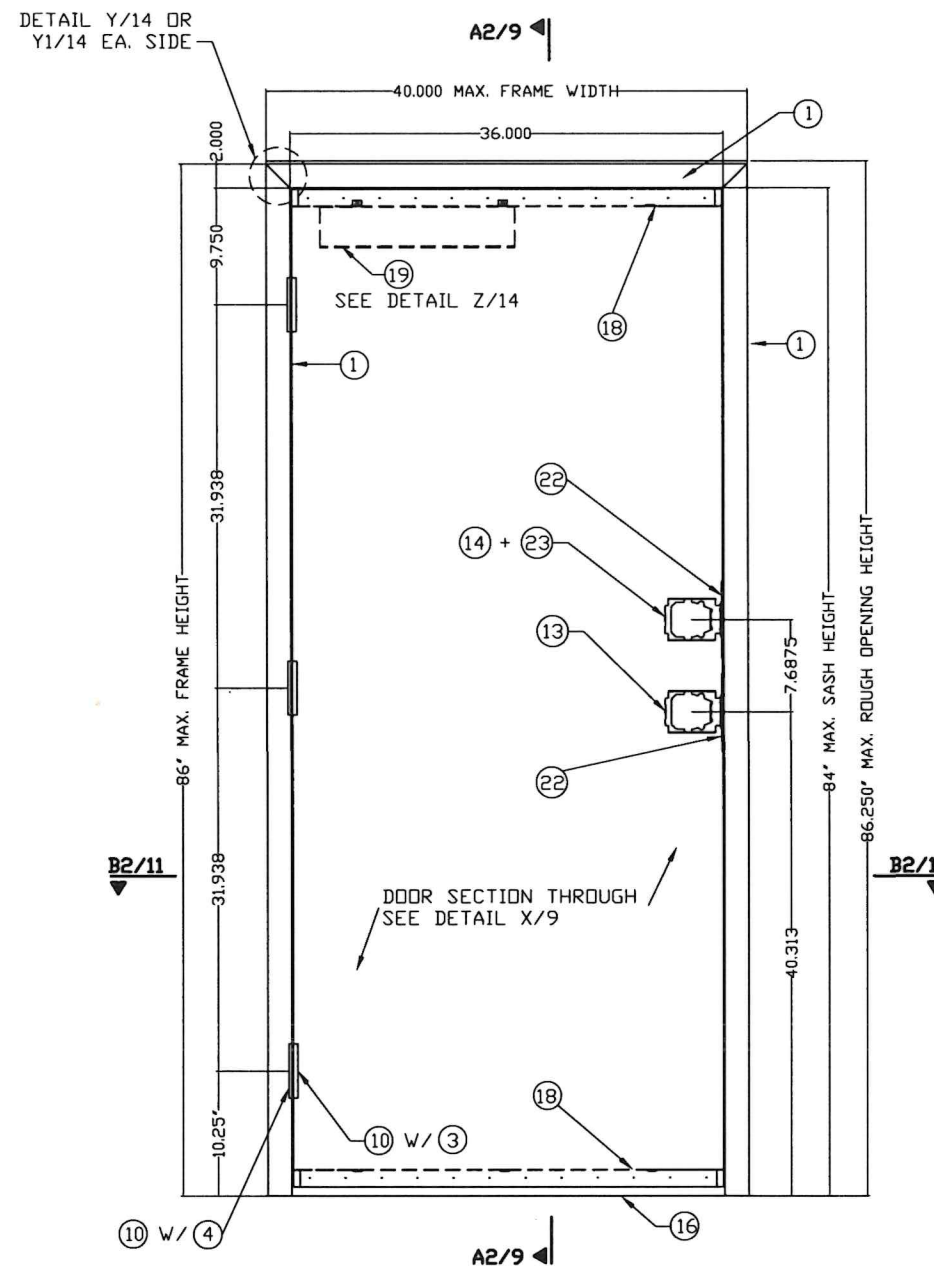
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FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

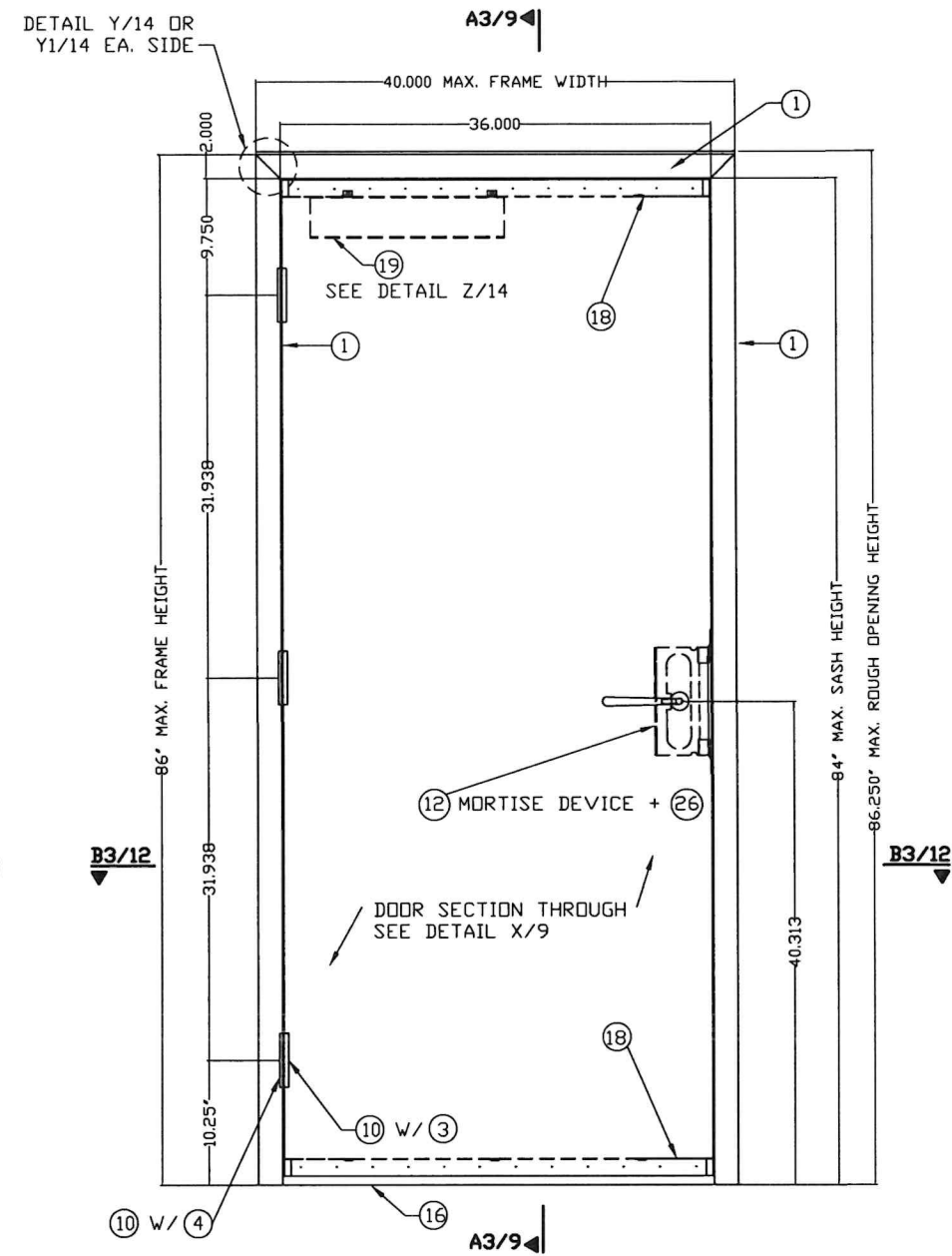
©2026 TILTECO, INC.		SERIES LS20GA FLUSH COMMERCIAL STEEL OUTSWING DOOR W/SERIES "AS" 18GA STEEL FRAME		DRAWN BY: W.H.	
TILTECO INC.		DAYBAR INDUSTRIES LTD		08/03/2026 DATE	
TILLIT TESTING & ENGINEERING COMPANY 6355N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 . Fax : (305)871-1531 e-mail: tilteco@aol.com CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167		50 WEST DRIVE, BRAMPTON, ON CANADA, L6T 2J4 TEL: 905 625-8000 FAX: 905 625-4204		26-241 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-182	08/03/2026	3		
2			4		
					SHEET 1 OF 14



EXTERIOR ELEVATION (OUTSWING) DOOR
VON DUPRIN RIM EXIT



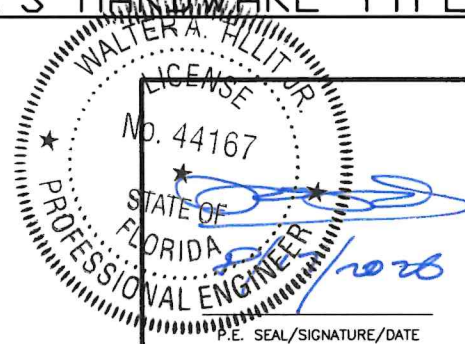
EXTERIOR ELEVATION (OUTSWING) DOOR
CYLINDRICAL LOCK + DEAD BOLT



EXTERIOR ELEVATION (OUTSWING) DOOR
MORTISE DEVICE

DOOR'S HARDWARE TYPES

A.S.D. DESIGN LOAD
+75.0 psf, -75.0 psf



FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

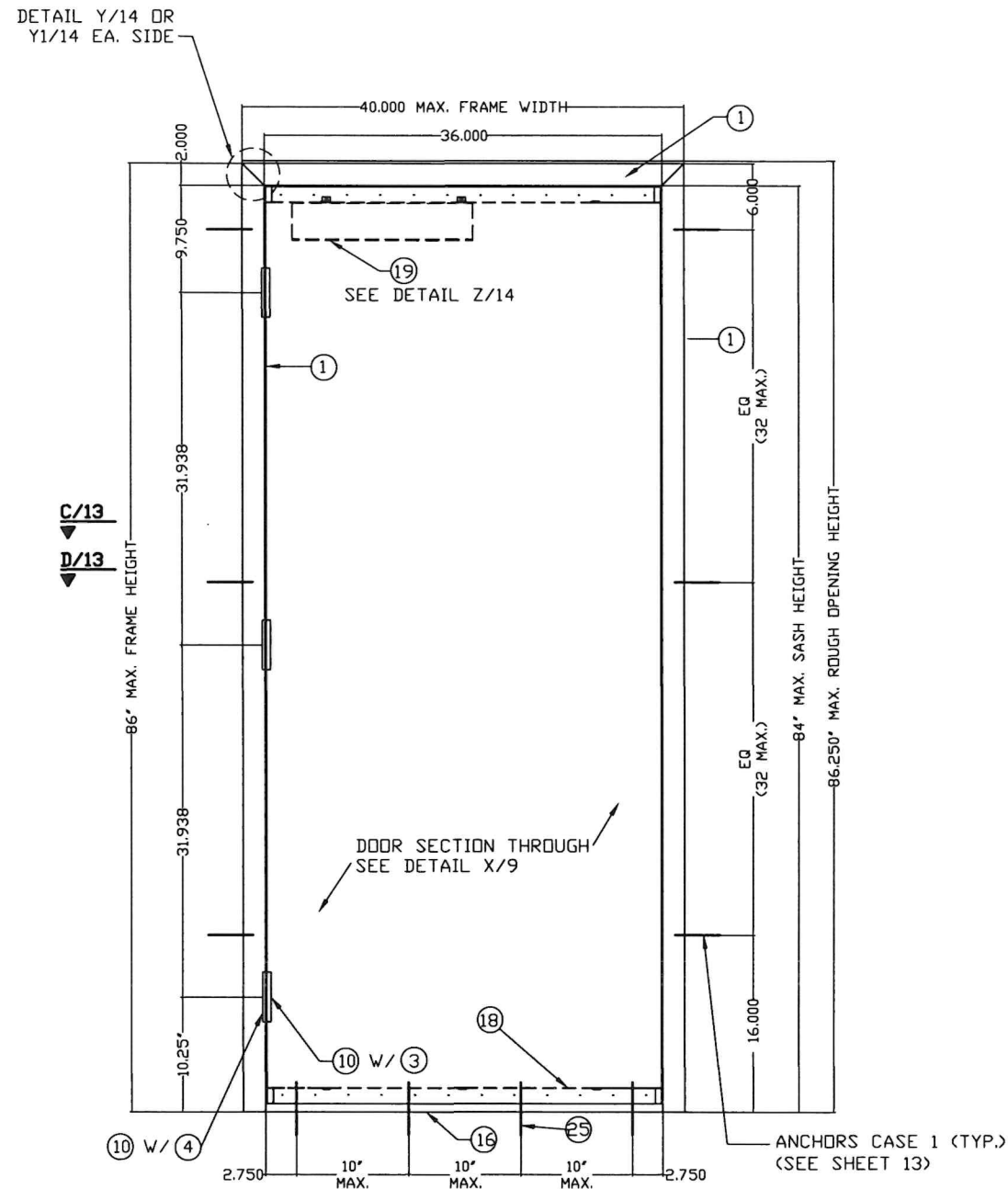
©2026 TILTECO, INC. TILTECO Inc. TILLIT TESTING & ENGINEERING COMPANY 6355N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 . Fax : (305)871-1531 e-mail: tilteco@aol.com CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167					
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W.H.

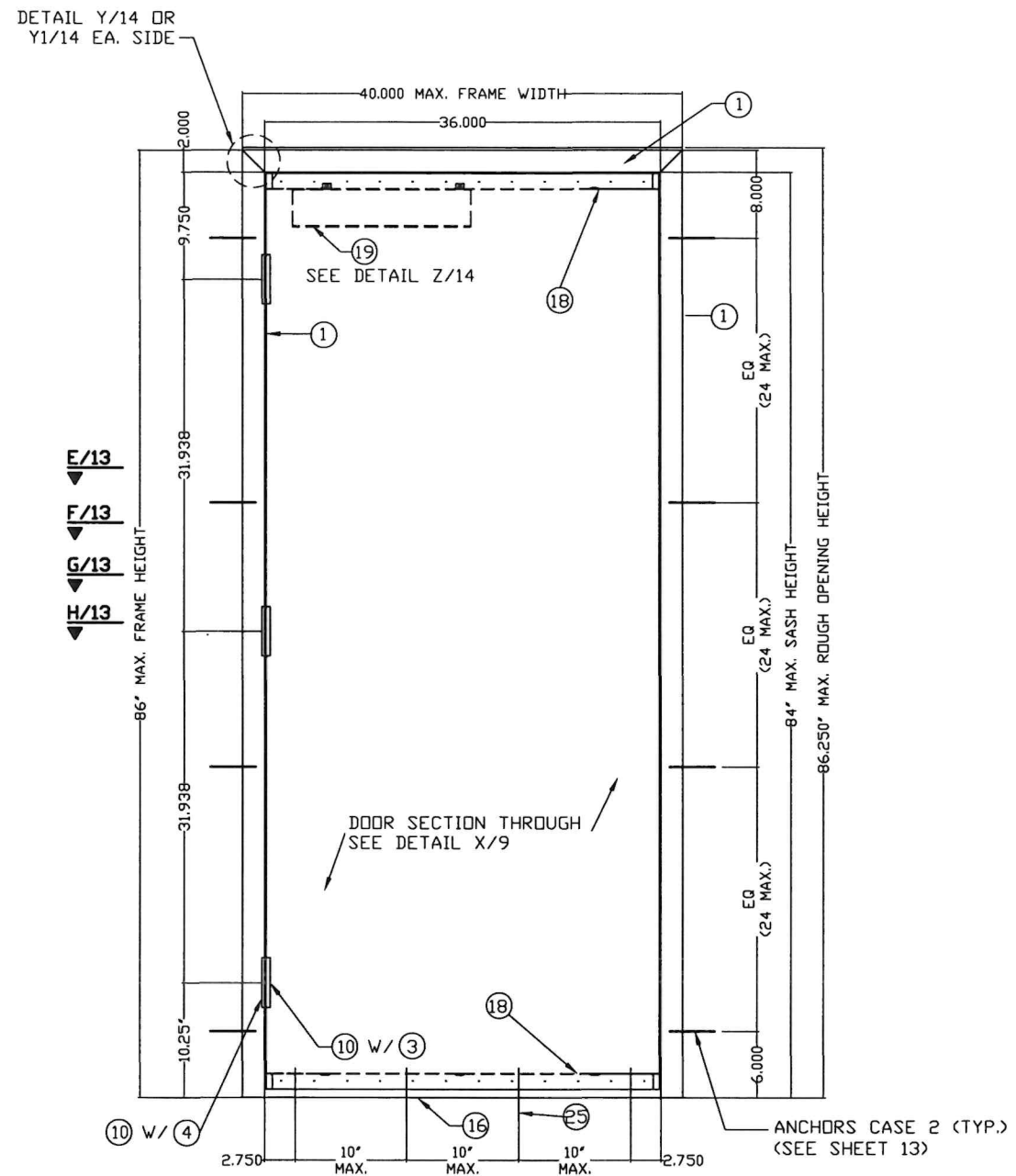
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DATE

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SHEET 2 OF 14

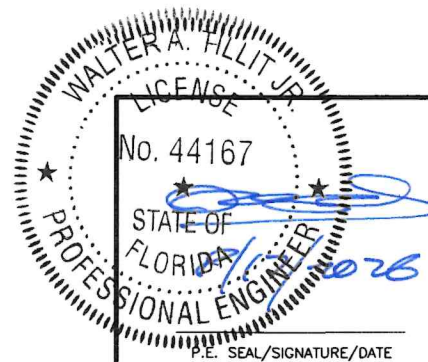


EXTERIOR ELEVATION (OUTSWING) DOOR
CASE 1 (SEE SHEET 13)



EXTERIOR ELEVATION (OUTSWING) DOOR
CASE 2 (SEE SHEET 13)

ANCHORAGE INSTALLATION DETAILS AT JAMBS



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e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

SERIES LS20GA FLUSH COMMERCIAL
STEEL OUTSWING DOOR W/SERIES "AS"
18GA STEEL FRAME

DAYBAR INDUSTRIES LTD

50 WEST DRIVE, BRAMPTON,
ON CANADA, L6T 2J4
TEL: 905 625-8000
FAX: 905 625-4204

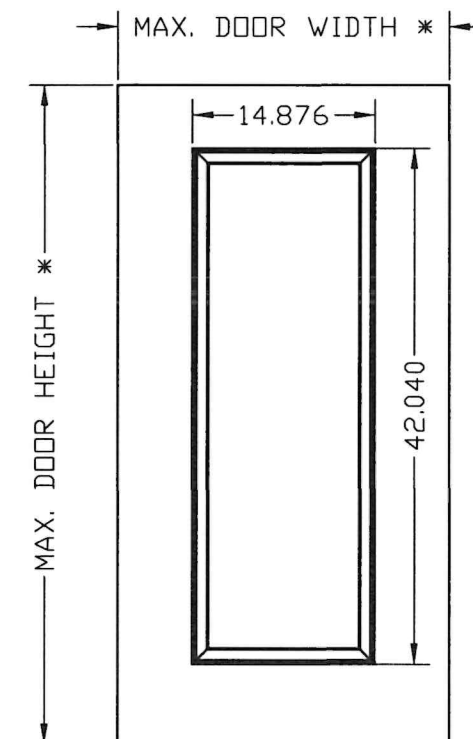
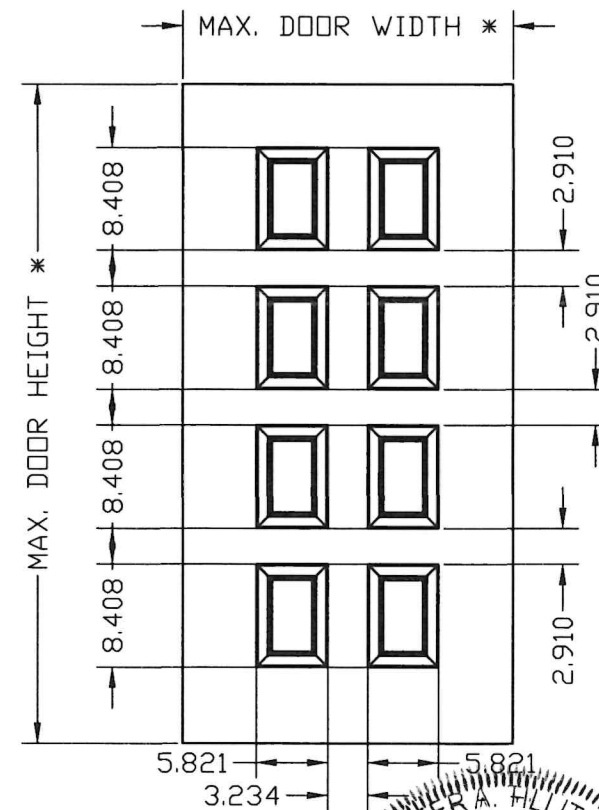
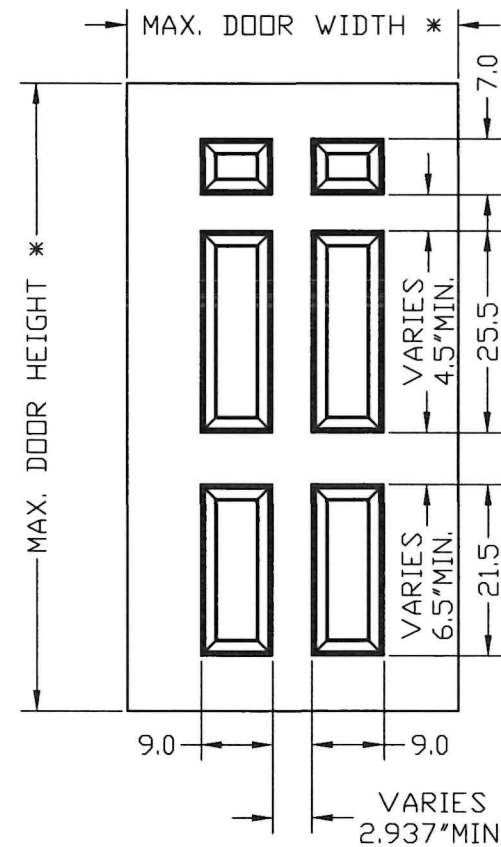
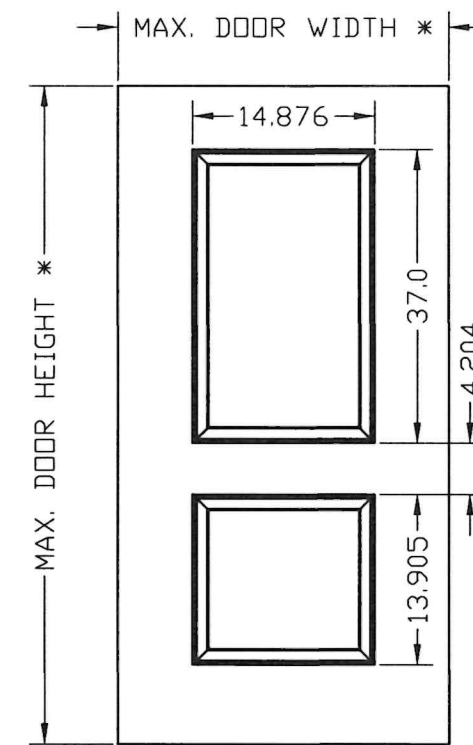
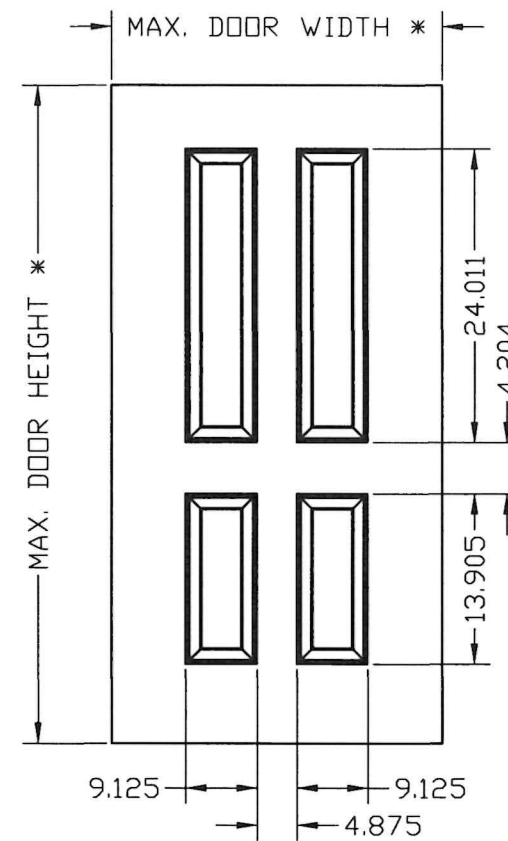
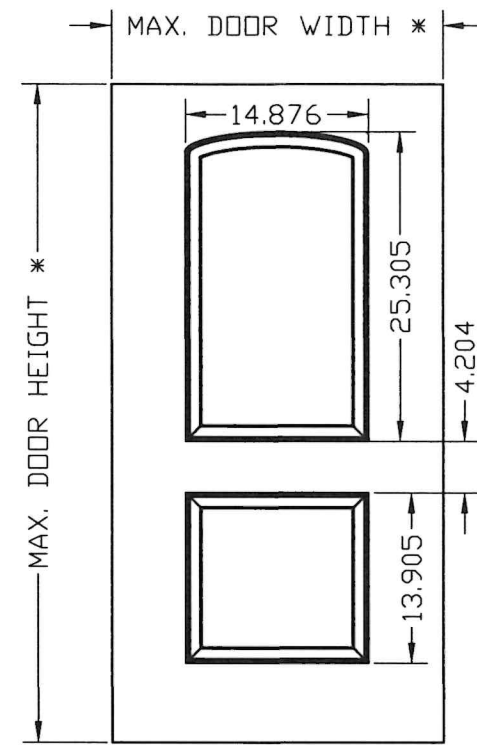
DRAWN BY:
W.H.

08/03/2026
DATE

26-241
DRAWING No

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1	OLD 23-182	08/03/2026	3		
2			4		

SHEET 3 OF 14



* SEE SHEET 2

OPTIONAL EMBOSSED DOOR ELEVATIONS



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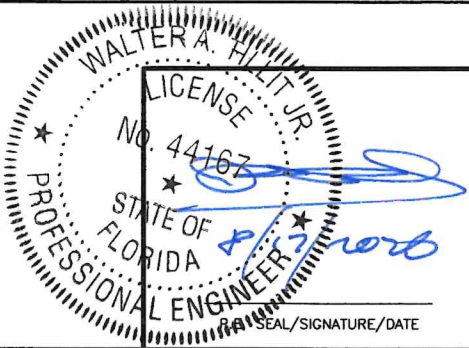
TILTECO INC.

TILLIT TESTING & ENGINEERING COMPANY
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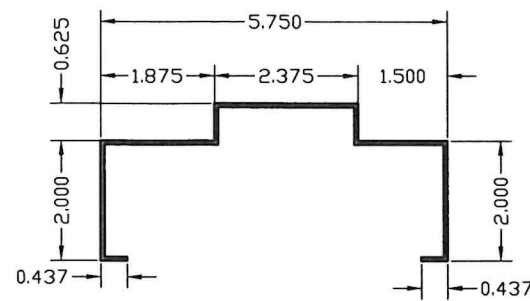
SERIES LS20GA FLUSH COMMERCIAL STEEL OUTSWING DOOR W/SERIES "AS" 18GA STEEL FRAME						DRAWN BY: W.H.	
DAYBAR INDUSTRIES LTD						08/03/2026 DATE	
50 WEST DRIVE, BRAMPTON, ON CANADA, L6T 2J4 TEL: 905 625-8000 FAX: 905 625-4204						26-241 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	SHEET 4 OF 14	
1	OLD 23-182	08/03/2026	3				
2			4				

BILL OF MATERIALS OUTSWING DOOR:

ITEM	DESCRIPTION	BASIC DIMENSIONS, MATERIAL OR ADDITIONAL DETAILS
1, 1A	18 GAUGE WELDED FRAME	AS 5 3/4" JAMB DEPTH X 2" FACE X .042" MIN GALVANNEAL FOR ① (Fu=52Ksi, Fy=45Ksi) OR STAINLESS STEEL (Fu=94.9 Ksi, Fy=54.5 Ksi) FOR ①A, OF SAME DIMENSIONS
2	20 GAUGE FLUSH DOOR COMMERCIAL STEEL	1 3/4" THICK X (.032 MIN) GALVANNEAL (Fu=60Ksi, Fy=45Ksi); C/W PAPER HONEY COMB OR APPROVED STYRENE OR 1.5 PCF APPROVED POLYURETHANE OR 12.5 PCF MINERAL BOARD CORE
3	HINGE REINFORCINGS (DOOR)	1 1/4" X 10" X 10 GAUGE GALVANNEAL (.134 MIN)
4	HINGE REINFORCINGS (FRAME)	1 1/2" X 8 3/4" X 10 GAUGE GALVANNEAL (.134 MIN)
5	STRIKE REINFORCINGS (FRAME)	1 3/8" X 7 5/16" X 14 GAUGE GALVANNEAL (.072 MIN)
6	WIRE MASONRY FRAME ANCHOR	9 1/2" LONG X 10 GAUGE (.134 MIN) Fu=95.9 Ksi Fy=40.2 Ksi
7	2 PIECE SNAP-IN STUD ANCHOR	1 13/16" X 4 1/8" X 20 GAUGE GALVANNEAL (.032 MIN), & MUST COMPLY WITH SECTIONS 1711.1.2.1, 1711.1.2.2 OR 1711.1.2.3 OF THE F.B.C. AS APPLICABLE.
8	EMA ANCHOR BOLTS	3/8" X 5" SS UNICAN-SLEEVE ANCHOR, 2 1/4" EMBEDMENT & 3" MIN. E.D.
8A	EMA BUTTERFLY ANCHOR (PART #PT1-008)	18 GAUGE (.042") STEEL SATIN COAT
9	LAG SCREW	3/8"ØX6" LAG SCREW. SEE SHEET 13 FOR SPECS.
10	HINGES-HAGER BB1191	4.5" X 4.5" STANDARD WEIGHT (.134 THICK)
11	RIM EXIT: VON DUPRIM 98/99 SERIES	N/A
12	MORTISE DEVICE: SCHLAGE L9000 SERIES	N/A
13	CYLINDRICAL LOCK: SCHLAGE D SERIES	N/A
14	DEAD BOLT: SCHLAGE B SERIES	N/A
15	WEATHER STRIP: NATIONAL GUARD PRODUCTS #120NA	SECURED WITH DOUBLE ROW OF #6 X 1/2" SMS SCREWS @ 1" FROM EA. END & BALANCE @ 4" O.C.
16	THRESHOLD: NATIONAL GUARD PRODUCTS #950NA	EXTRUDED ALUMINUM 6063-T6, 0.078" THK. W/ NEOPRENE BULB
17	CAULKING: GE SILICONE II	N/A
18	DOOR END CHANNEL REINFORCEMENT	16 GAGE GALVANNEAL STEEL
19	DOOR SURFACE CLOSER REINFORCEMENT	14 GAGE (.072" MIN.) x 3 1/2" x 1.6875 x 16.250" LONG. GALVANNEAL.
20	RP REINFORCING	14 GAGE (.072" MIN.) GALVANNEAL
21	RIM PANIC SURFACE BOLT REINFORCING	14 GAGE (.072" MIN.) GALVANNEAL
22	#161 LOCK EDGE REINFORCING	16 GAGE (.051" MIN.)
23	DEAD LOCK STRIKE TAB	14 GAGE (.072" MIN.) GALVANNEAL, ATTACHED TO STRIKE JAMB W/(3) 1/8"Ø PROJECTION WELDS
25	THRESHOLD ANCHOR	1/4"Ø ULTRACON+ OR ULTRACON SS4 BY DEWALT, 1 3/4" MIN. EMBEDMENT & 3" MIN. E.D @ f'c=3Ksi CONCRETE SILL
26	MORTISE LOCK REINFORCEMENT	ANSI #A115.1 #86, 0.072"MIN.
28	Z ANCHOR	18 GAGE (.042") GALVANNEAL, W/ Fy= 33Ksi, Fu= 44Ksi, & MUST COMPLY WITH SECTIONS 1711.1.2.1, 1711.1.2.2 OR 1711.1.2.3 OF THE F.B.C. AS APPLICABLE.
29	T STRAP ANCHOR DAYBAR # PT1-001A	18 GAGE (.042") GALVANNEAL, W/ Fy= 33Ksi, Fu= 44Ksi, & MUST COMPLY WITH SECTIONS 1711.1.2.1, 1711.1.2.2 OR 1711.1.2.3 OF THE F.B.C. AS APPLICABLE.



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TILTECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 . Fax : (305)871-1531 e-mail: tilteco@aol.com CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167			DAYBAR INDUSTRIES LTD 50 WEST DRIVE, BRAMPTON, ON CANADA, L6T 2J4 TEL: 905 625-8000 FAX: 905 625-4204		08/03/2026 DATE
26-241 DRAWING No					
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-182	08/03/2026	3		
2			4		
					SHEET 5 OF 14

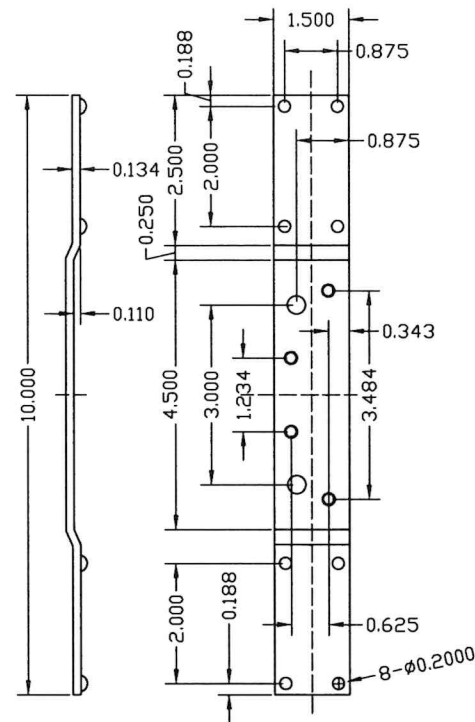


① AS 5 3/4" TYPICAL SECTION THROUGH

MATERIAL:
GAUGE 18 (0.042) MINIMUM
GALVANNEAL

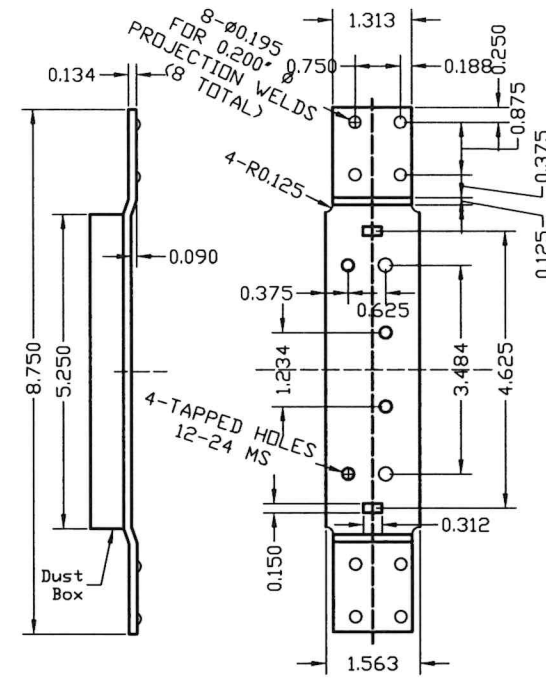
①A AS 5 3/4" TYPICAL SECTION THROUGH

MATERIAL:
GAUGE 18 (0.042) MINIMUM
STAINLESS STEEL



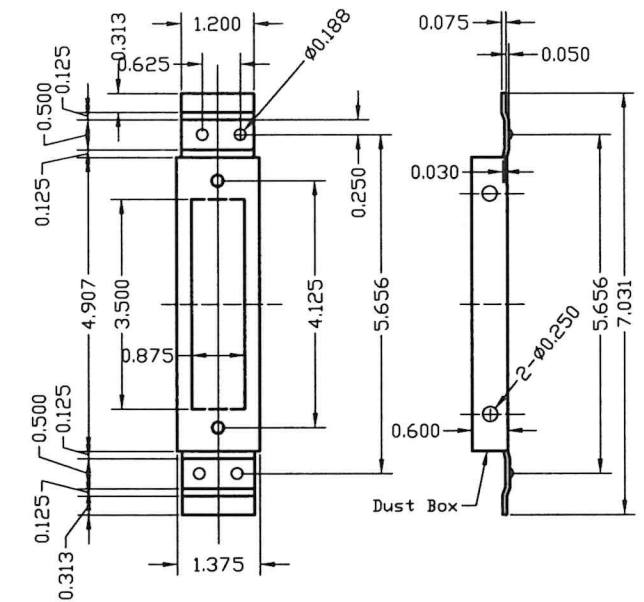
③ DOOR HINGE REINFORCING

MATERIAL:
GAUGE 10 (0.134) MINIMUM
GALVANNEAL



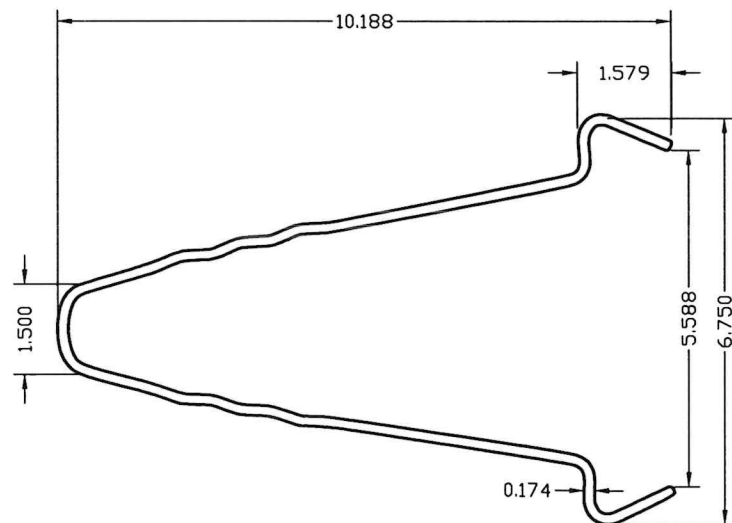
④ 4 1/2" FRAME HINGE REINFORCING

MATERIAL:
GAUGE 10 (0.134" MINIMUM)
GALVANNEAL



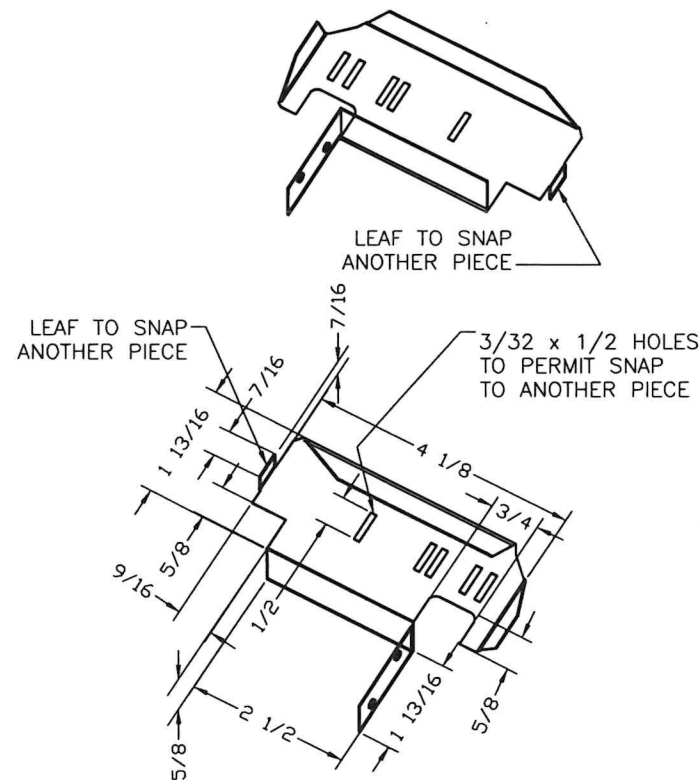
⑤ 4 7/8" STRIKE REINFORCEMENT FOR FRAME

MATERIAL:
GAUGE 12 (0.072 MINIMUM)
GALVANNEAL



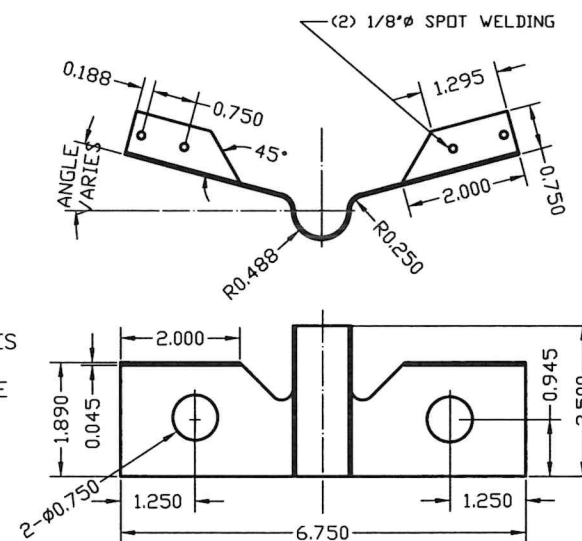
⑥ WIRE ANCHOR

STEEL WIRE ANCHORS
(0.134" DIA, 10 GAGE, 18 5/8"
EMBEDMENT LENGTH)
IN HORIZ.



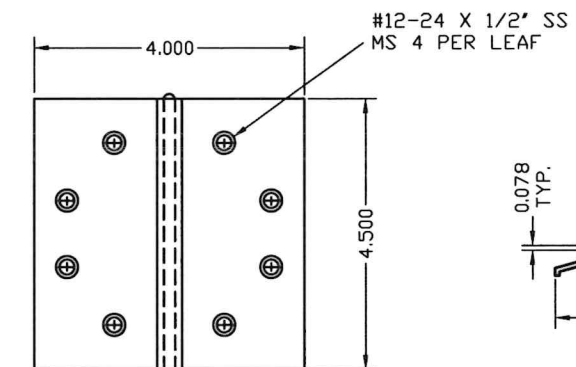
⑦ 2 PIECE SNAP-IN STUD ANCHOR

CLIP-IN STUD ANCHOR MATERIAL: GAUGE
20 (0.032) ASTM A-653,
GALVANNEALED STEEL.
(SEE B.O.M. ON SHEET 5)

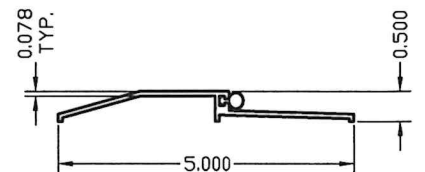


⑧A EMA BUTTERFLY ANCHOR (PART #PT1-008)

MATERIAL: 18 GA (0.042") SATIN COAT



⑩ HINGES-HAGER BB1279
t=0.134" THICK



⑩ EXTRUDED ALUMINUM THRESHOLD NGP #950NA W/ NEOPRENE BULB



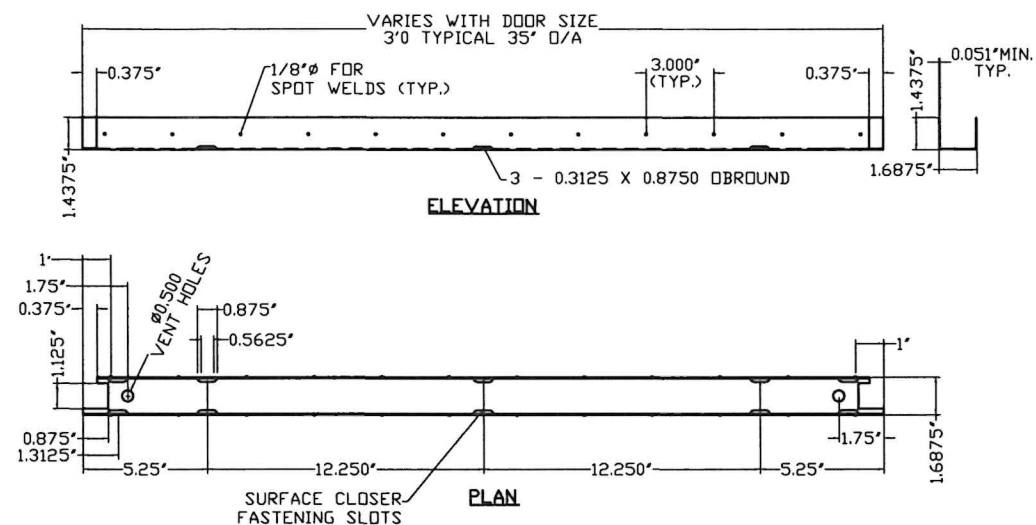
FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

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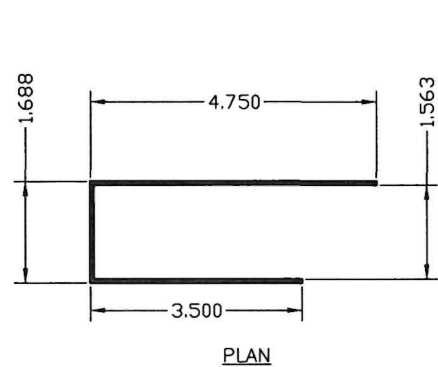
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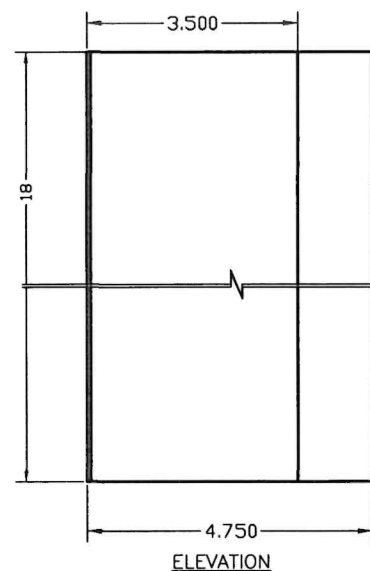


18 DOOR END CHANNEL REINFORCEMENT

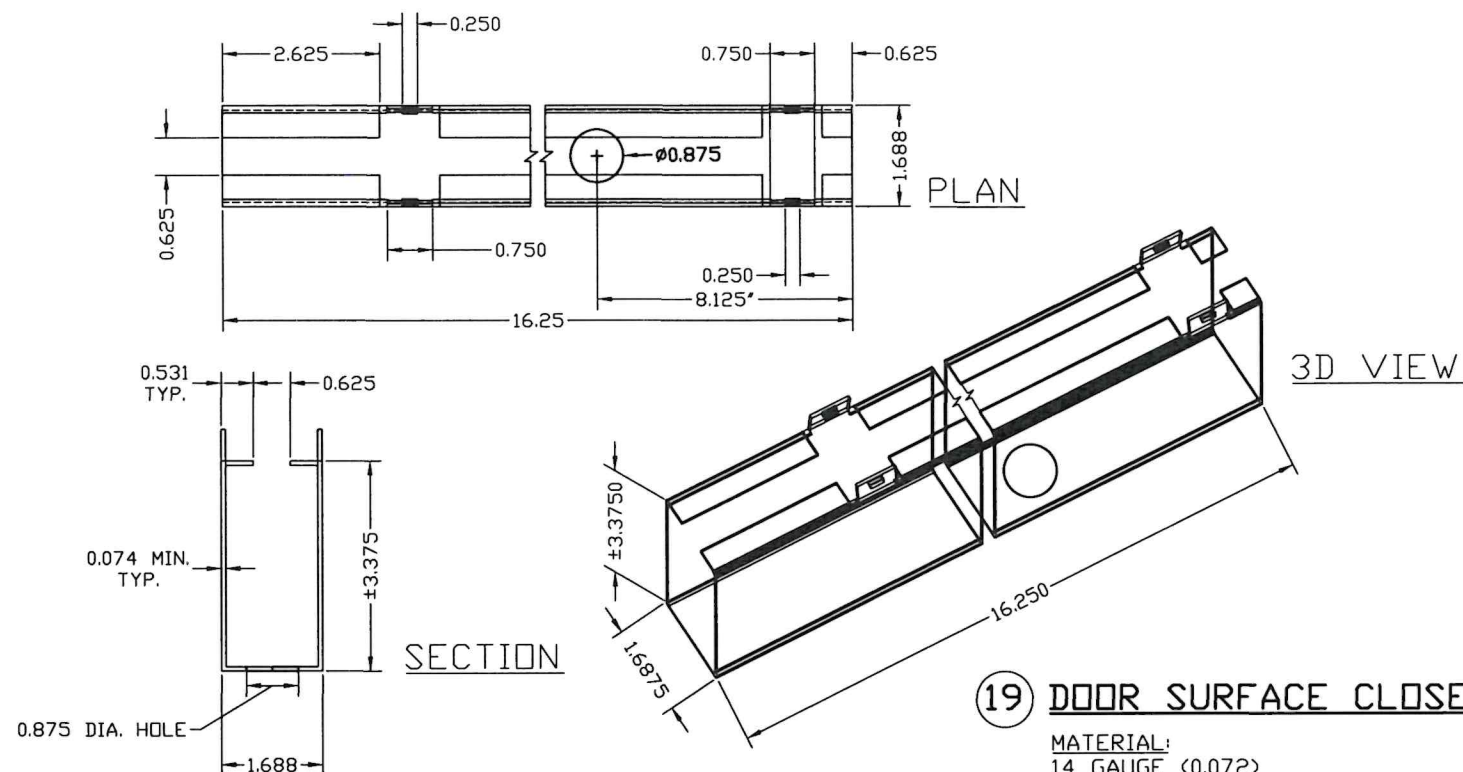
MATERIAL:
16 GAUGE (0.051) MINIMUM
GALVANNEAL



20 RP REINFORCING

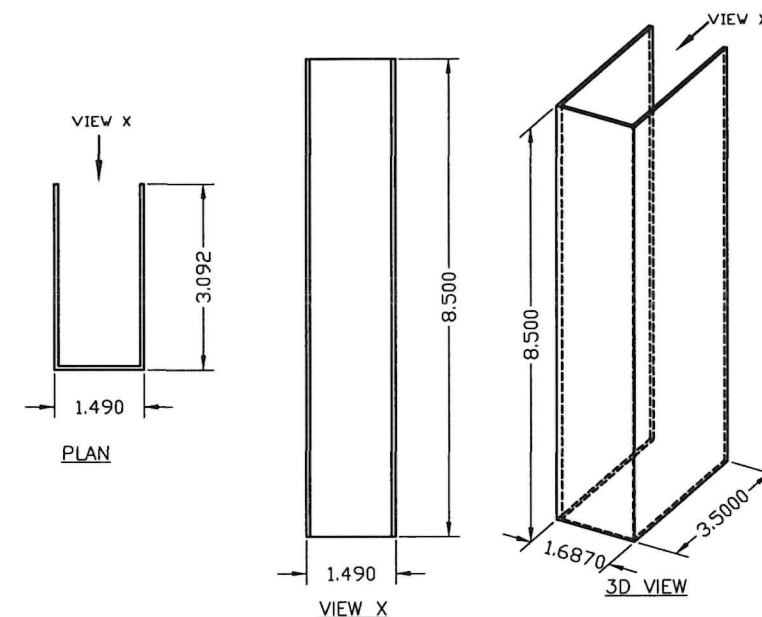


GAGE 14 (0.074) MINIMUM
RP REINFORCING
GALVANNEAL



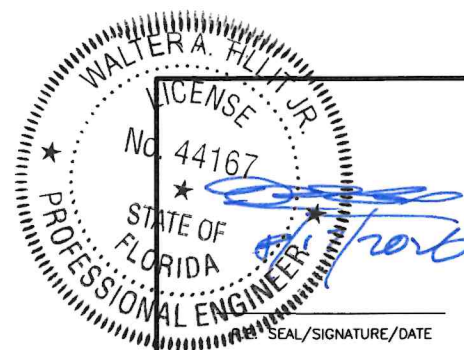
19 DOOR SURFACE CLOSER REINFORCING

MATERIAL:
14 GAUGE (0.072)
MINIMUM GALVANNEAL



21 RIM PANIC SURFACE BOLT REINFORCING

MATERIAL:
14 GAUGE (0.072) MINIMUM GALVANNEAL, GLUED TO DOOR AT HEAD
& SILL USING HEMILBOND 8320-1 CONTACT ADHESIVE.



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Phone : (305)871-1530 . Fax : (305)871-1531
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

SERIES LS20GA FLUSH COMMERCIAL
STEEL OUTSWING DOOR W/SERIES "AS"
18GA STEEL FRAME

DAYBAR INDUSTRIES LTD

50 WEST DRIVE, BRAMPTON,
ON CANADA, L6T 2J4
TEL: 905 625-8000
FAX: 905 625-4204

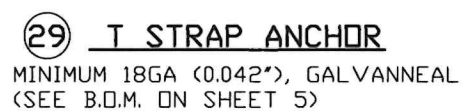
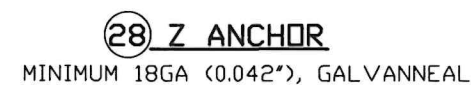
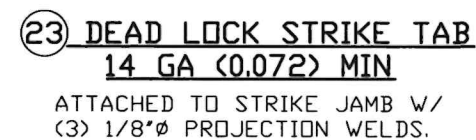
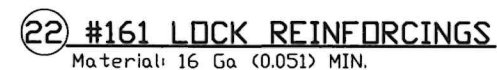
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W.H.

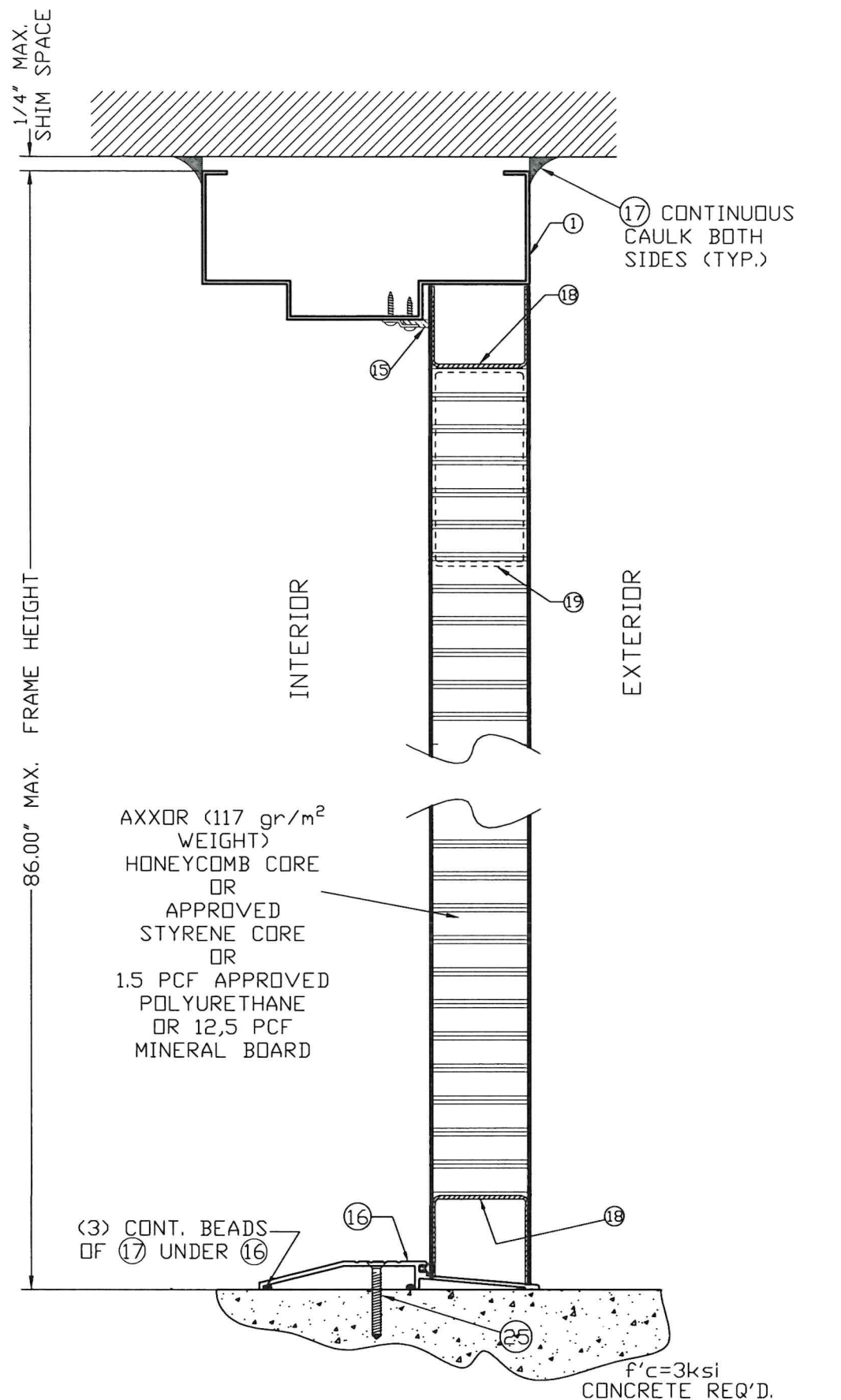
08/03/2026
DATE

26-241
DRAWING No

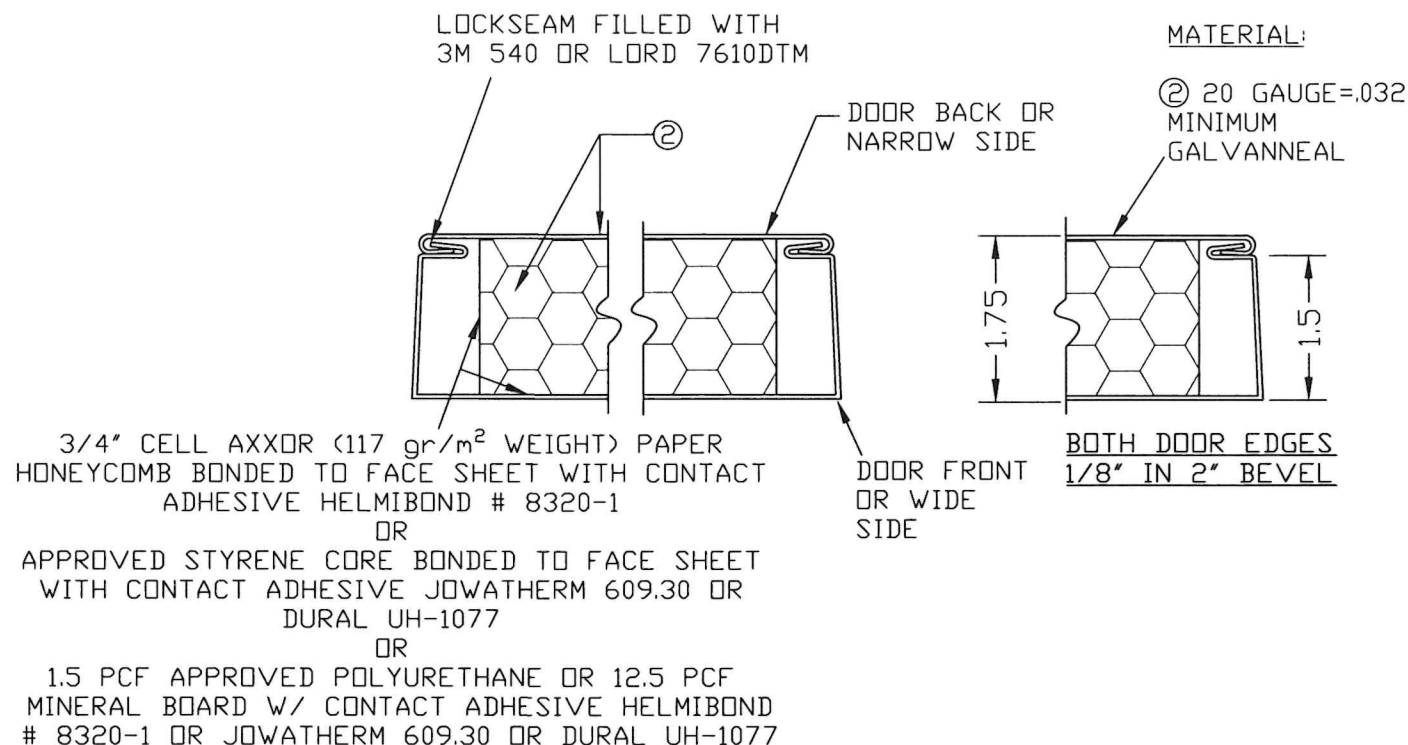
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2			4		

SHEET 7 OF 14

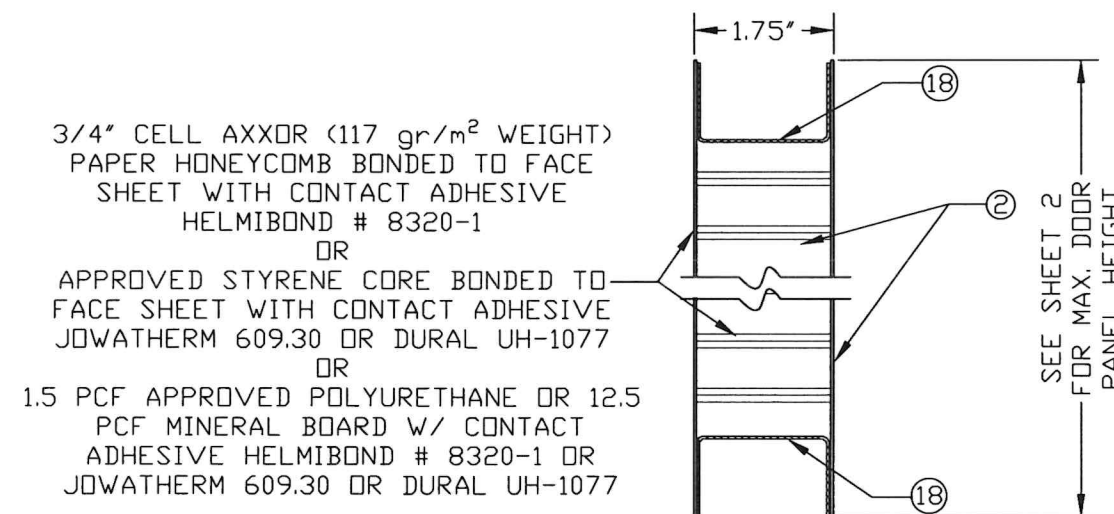




SECTIONS A1-A1, A2-A2 & A3-A3
AT DOOR PANEL/FRAME

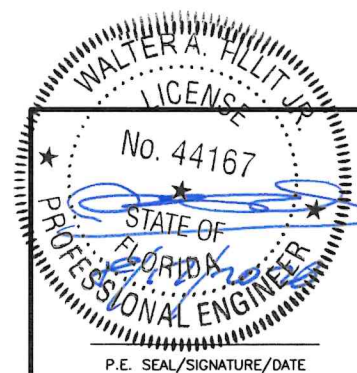


DOOR SECTION THROUGH EDGE SEAM,
DETAIL X



VERTICAL SECTION AT DOOR PANEL

DOOR PANEL CONSTRUCTION



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18GA STEEL FRAME
DAYBAR INDUSTRIES LTD
50 WEST DRIVE, BRAMPTON,
ON CANADA, L6T 2J4
TEL: 905 625-8000
FAX: 905 625-4204

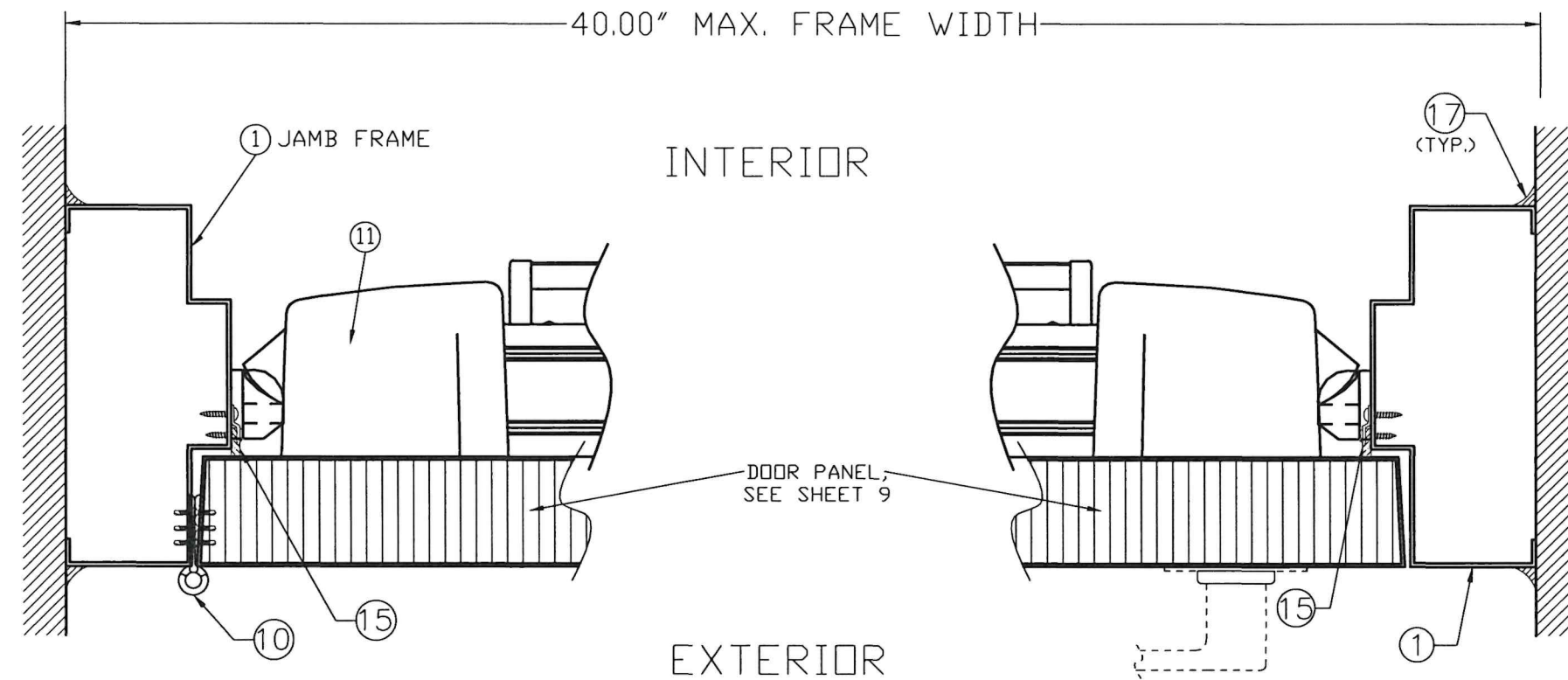
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W.H.

08/03/2026
DATE

26-241
DRAWING No

SHEET 9 OF 14

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1	OLD 23-182	08/03/2026	3		
2			4		



SECTION B1-B1



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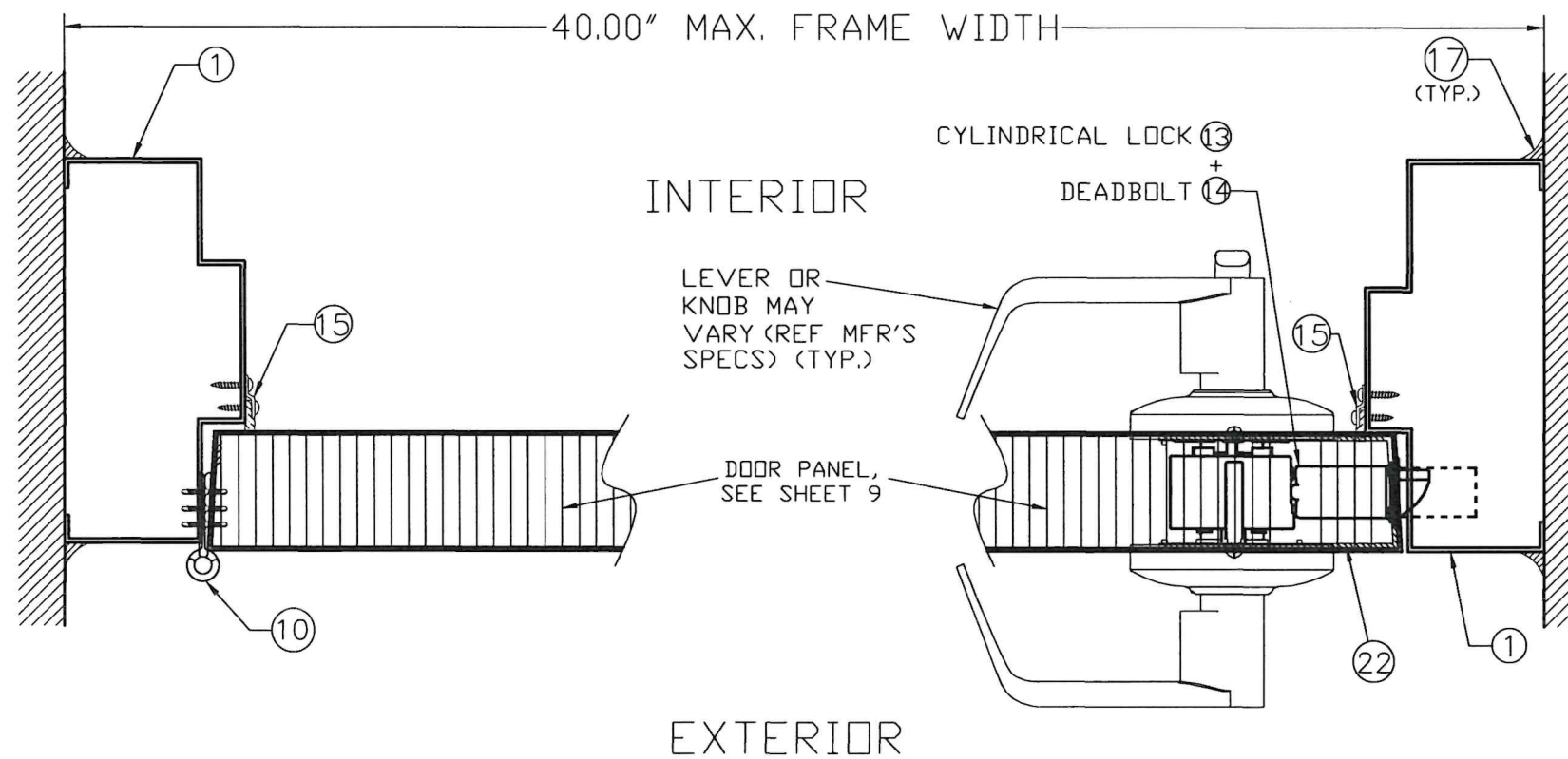
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2			4		

DRAWN BY:
W.H.

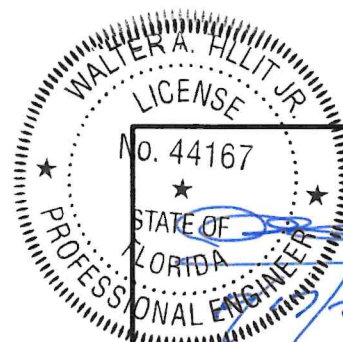
08/03/2026
DATE

26-241
DRAWING No

SHEET 10 OF 14



SECTION B2-B2



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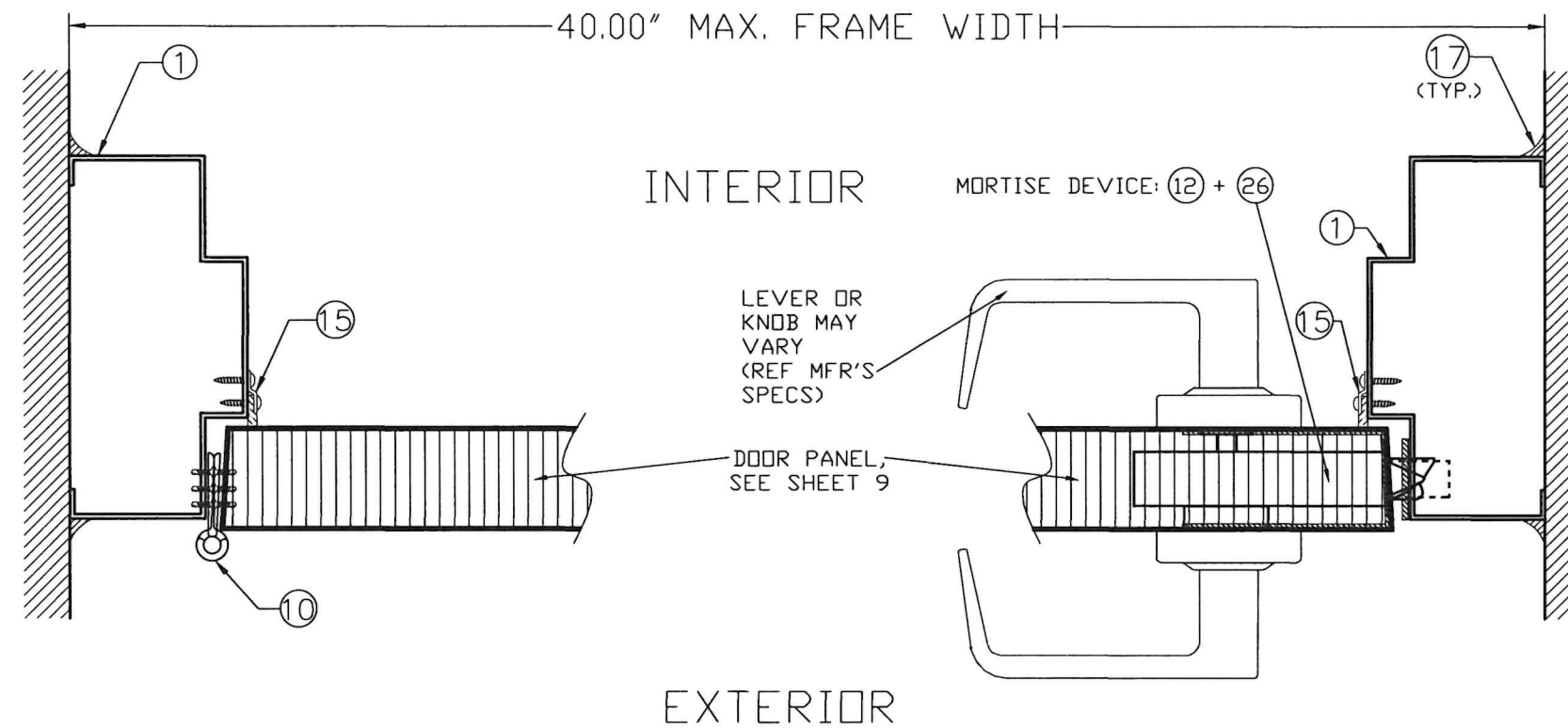
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W.H.

08/03/2026
DATE

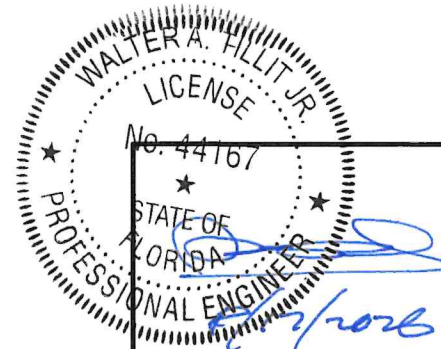
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2			4		

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SECTION B3-B3



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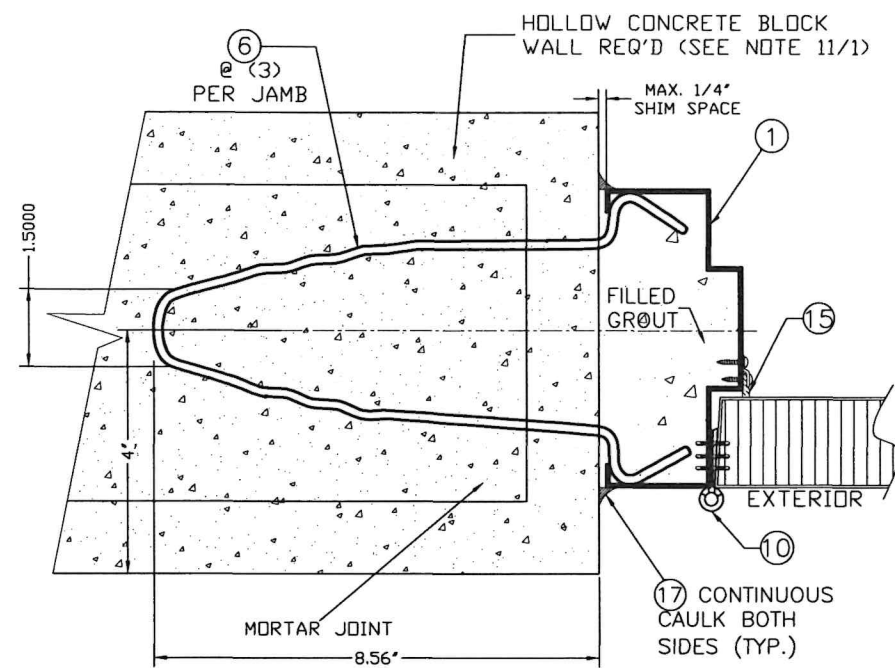
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W.H.

08/03/2026
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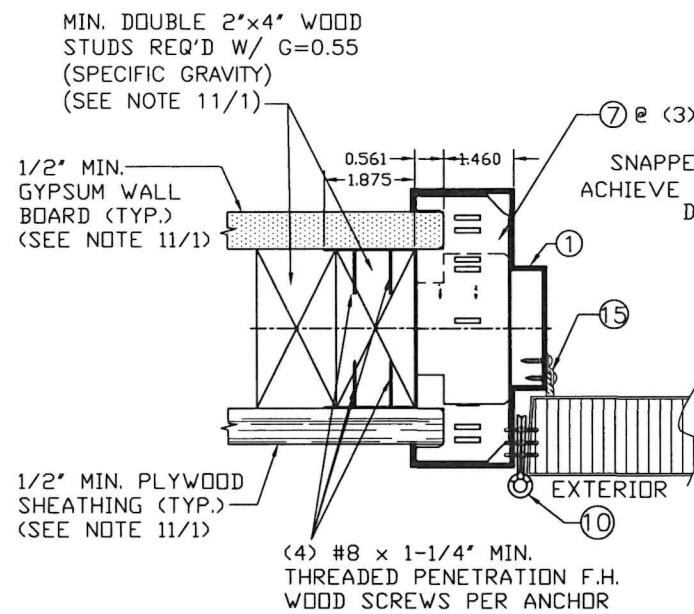
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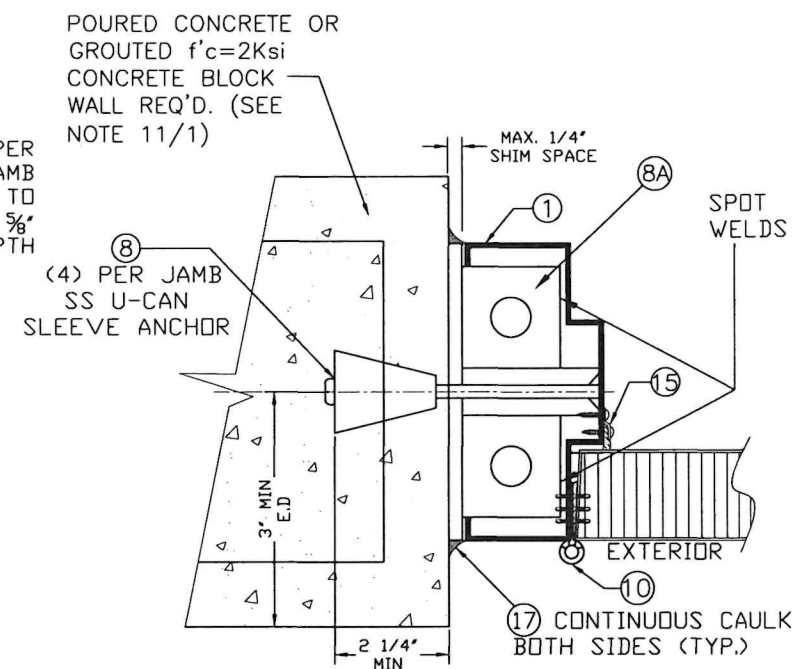
SHEET 12 OF 14



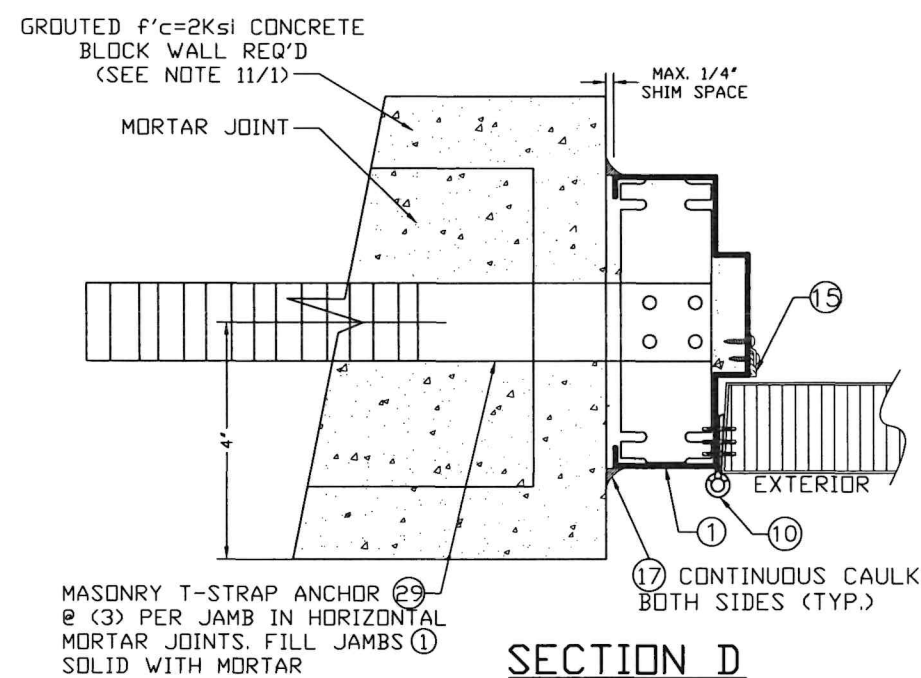
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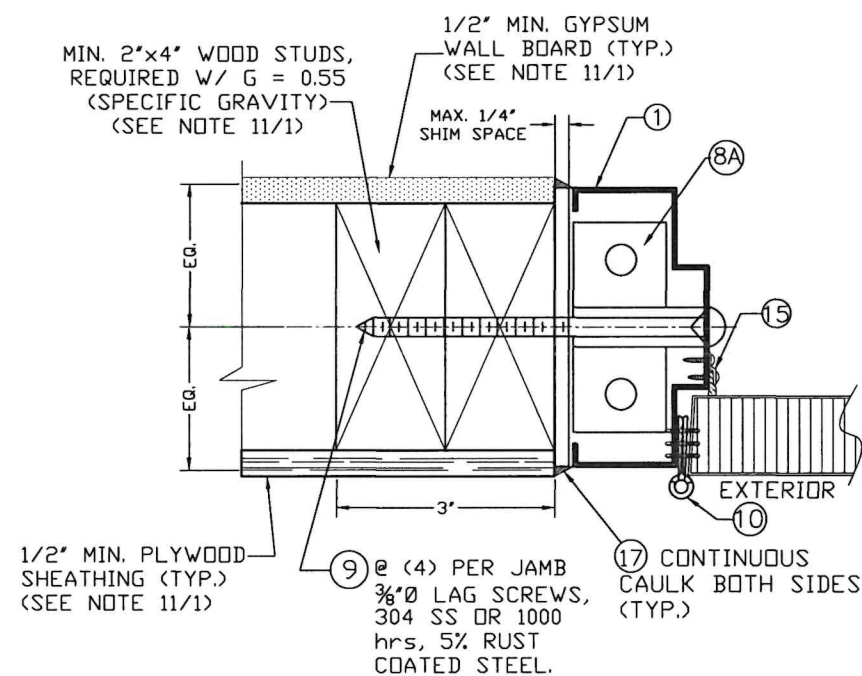
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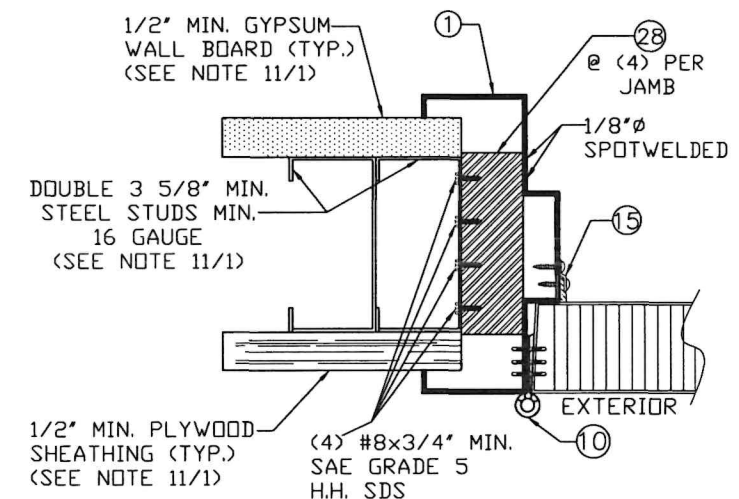
SECTION F



SECTION D



SECTION G

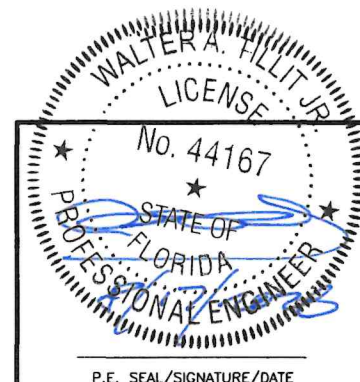


SECTION H

CASE 1

CASE 2

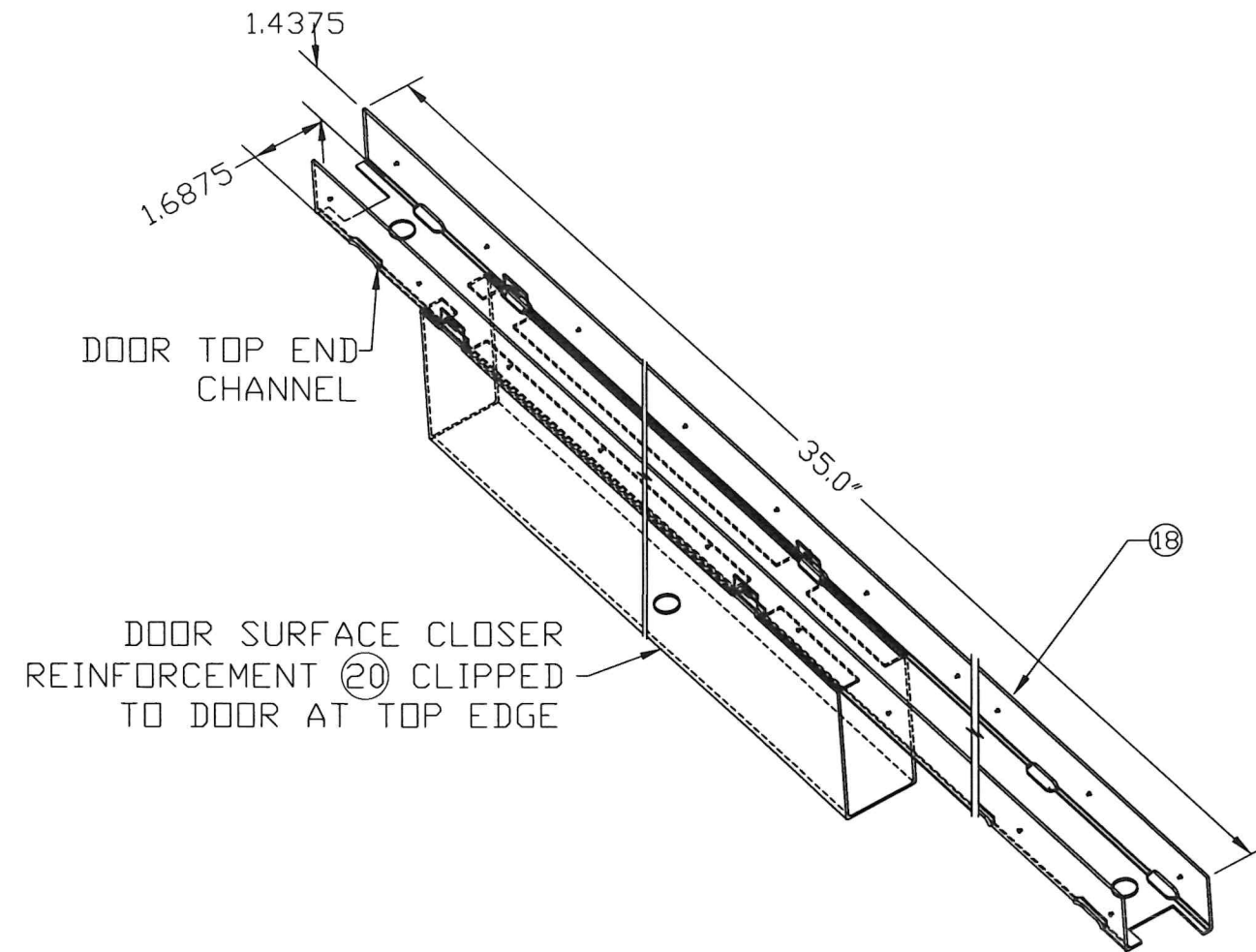
ANCHORAGE DETAIL AT JAMBS



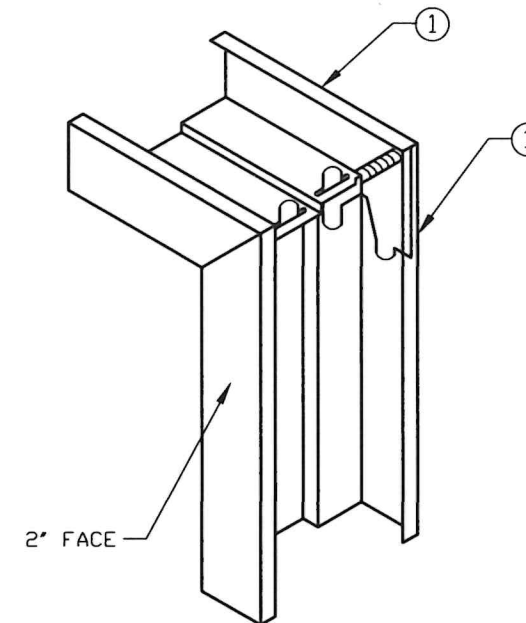
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SERIES LS20GA FLUSH COMMERCIAL STEEL OUTSWING DOOR W/SERIES "AS" 18GA STEEL FRAME			DRAWN BY: W.H.		
DAYBAR INDUSTRIES LTD 50 WEST DRIVE, BRAMPTON, ON CANADA, L6T 2J4 TEL: 905 625-8000 FAX: 905 625-4204			08/03/2026 DATE		
26-241 DRAWING No			SHEET 13 OF 14		
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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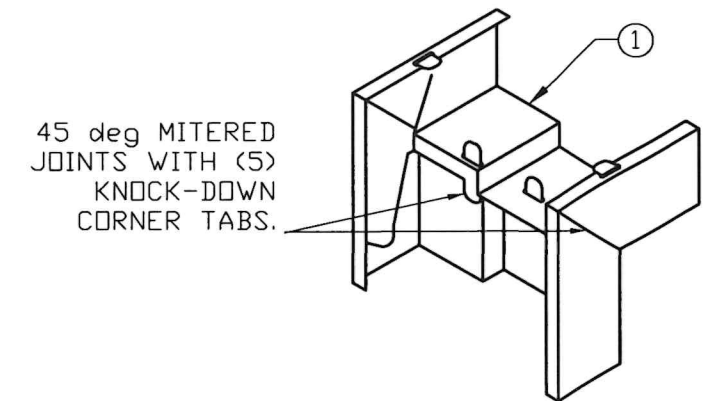


DOOR SURFACE CLOSER REINFORCEMENT (20)
AND END CHANNEL (18) ASSEMBLY DETAIL
DETAIL Z



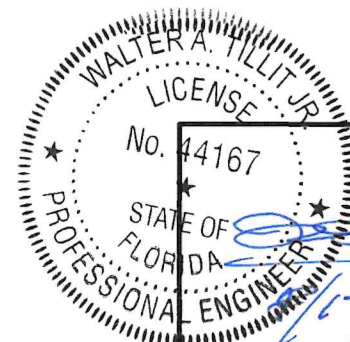
1. DIEMITERED CORNER CONT. WELDED INSIDE FACES & AT RETURNS
2. CAULK COMPLETE INSIDE CORNER WITH GE SILICONE II (17)

DETAIL Y



DETAIL Y1

CORNER DETAILS Y, Y1



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SHEET 14 OF 14

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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