

GENERAL NOTES AND SPECIFICATIONS:

1. SERIES LS20GA FLUSH COMMERCIAL STEEL INSWING DOOR SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) HAS BEEN VERIFIED FOR CODE COMPLIANCE IN ACCORDANCE WITH THE 2023 (8th 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 BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE W/ 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 SECTION 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 BILL OF MATERIALS (SHEET 5) OF THIS DRAWING.

3. COMPLIANCE OF EGRESS / ESCAPE REQUIREMENTS OF THESE DOORS PER FLORIDA BUILDING CODE TO BE DETERMINED BY BUILDING OFFICIALS ON A CASE-BY-CASE BASIS.

4. ALL SCREWS USED FOR ASSEMBLY CONNECTIONS (METAL TO METAL) TO 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 W/ FLORIDA BUILDING CODE SECTION 2411.3.3.4.

5. ALL WELDING TO CONFORM W/AMERICAN WELDING SOCIETY A.W.S. D.1.3 AND D-19.0 REGULATIONS WITH E60XX ELECTRODES, FOR GALVANNEAL MATERIAL, AND W/AMERICAN WELDING SOCIETY A.W.S. D.1.6 REGULATIONS W/ 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 ANCHORS SPACINGS SHALL BE AS PER ELEVATIONS ON SHEET 3 OF THIS DRAWING.

7. PROVIDE MAX. LOAD BEARING SHIM SPACE AS INDICATED ON SHEET 12.

8. THIS DOOR WILL NOT REQUIRE A HURRICANE PROTECTION DEVICE.

9. THESE DOOR ASSEMBLIES ARE APPROVED FOR WATER AND AIR INFILTRATION AS PER 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 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. 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) CONTRACTOR TO 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 SITE IS THE CONTRACTOR'S RESPONSIBILITY.

(c) THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

(d) ORIGINAL P.E.D SHALL BEAR THE DATE, SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

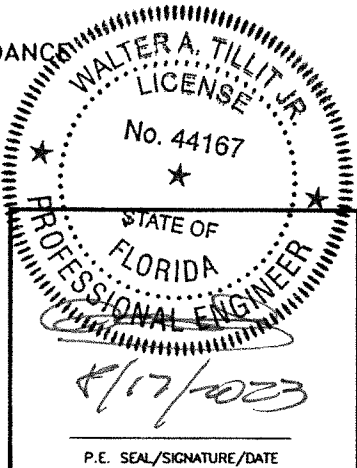
14. PRODUCT MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION AT PRODUCT IN ACCORDANCE WITH SECTION 1709.5 OF THE FLORIDA BUILDING CODE.
ONE LABEL SHALL BE PLACED FOR EVERY OPENING.

15. EXPANDED POLYSTYRENE CORE SHALL BE RIGID BOARD TYPE 1 PCF CONFORMING TO ASTM C578 BY DYPLAST PRODUCTS LLC, W/ CURRENT MIAMI DADE COUNTY PRODUCT CONTROL EVALUATION (NOA).

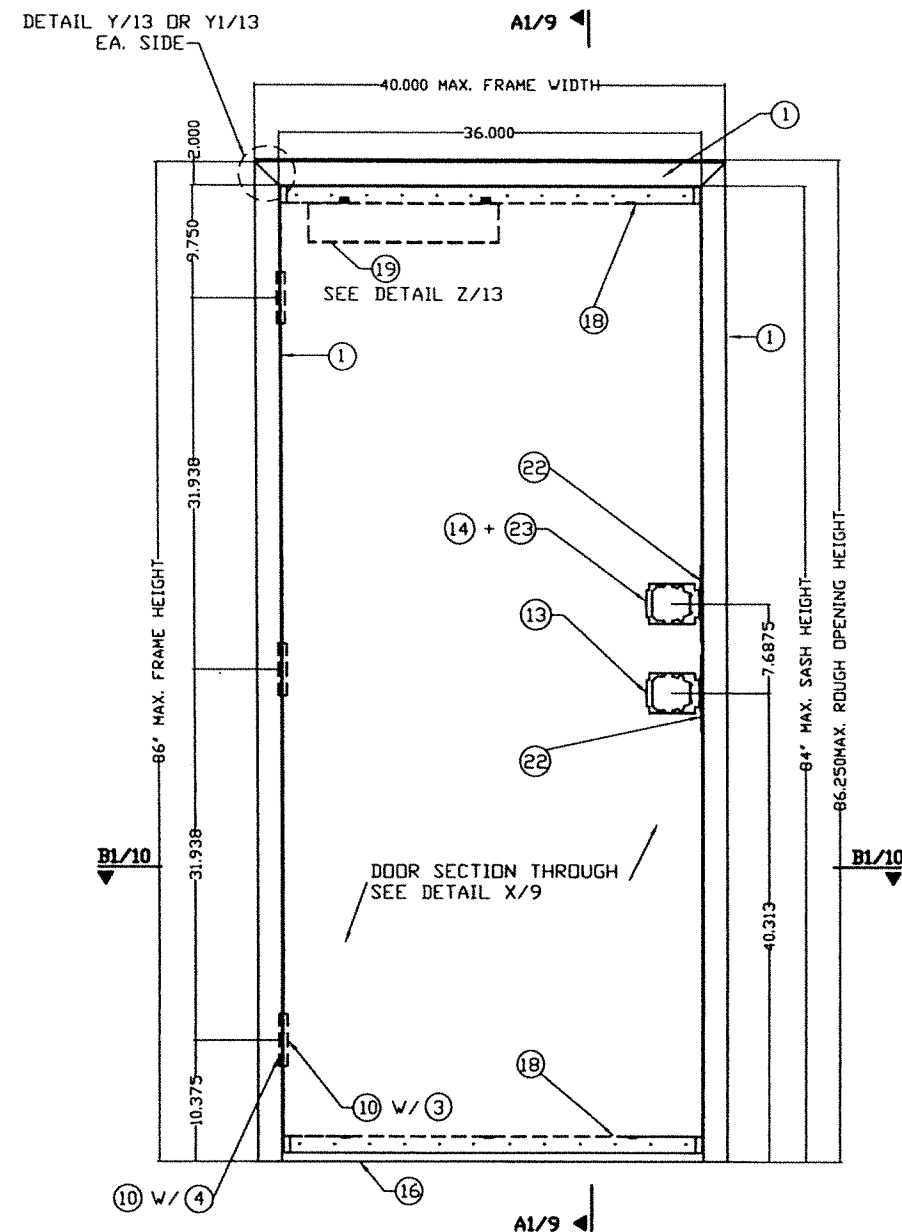
SHEETS CONTENT:

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 #10-11	HORIZONTAL SECTIONS AT HARDWARE.
SHEET #12	ANCHOR SECTIONS.
SHEET #13	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

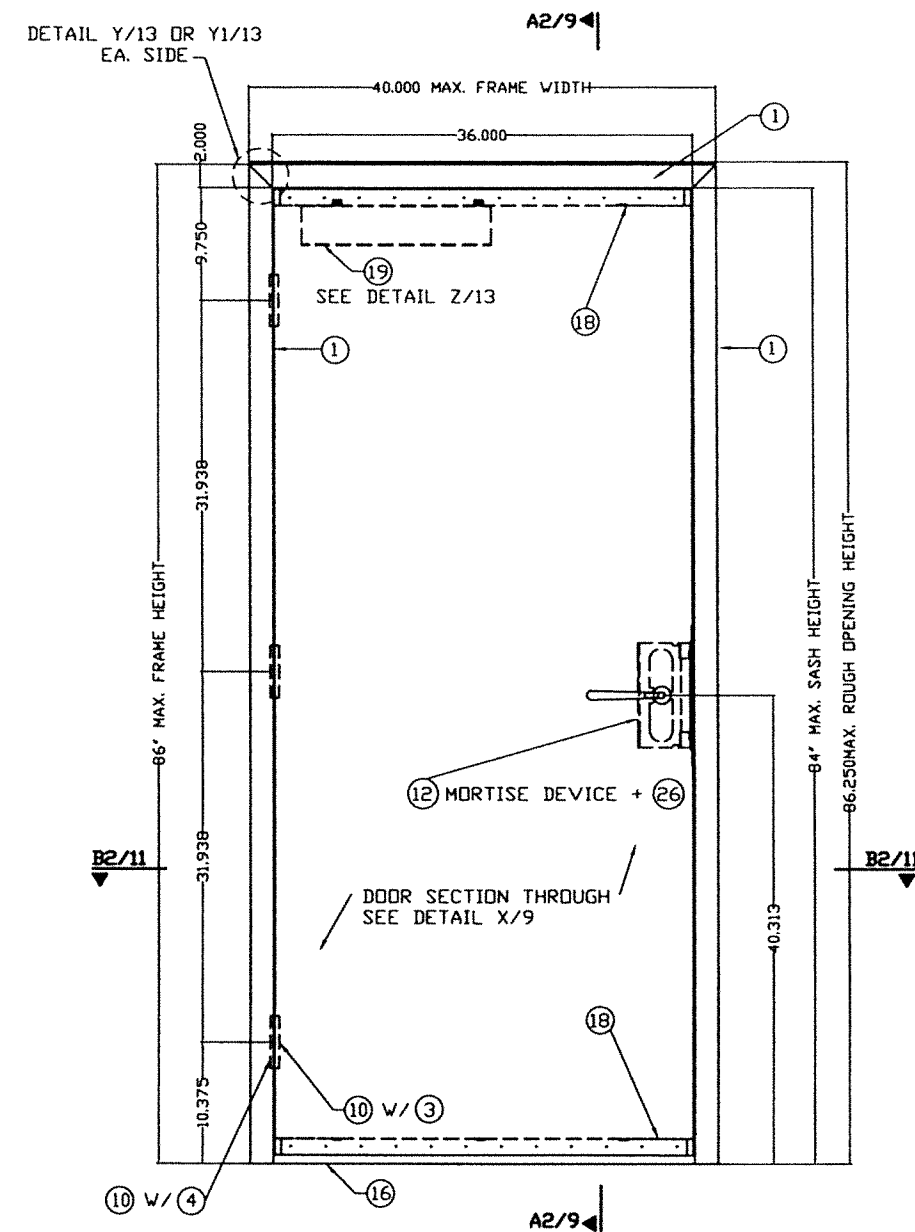


FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)					
©2023 TILTECO, INC.			SERIES LS20GA FLUSH COMMERCIAL STEEL INSWING DOOR W/SERIES "AS" 18GA STEEL FRAME		DRAWN BY: Y.M.
TILTECO Inc. TILLIT TESTING & ENGINEERING COMPANY 6355N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 . Fax : (305)871-1531 e-mail: tilteco@aol.com CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167			DAYBAR INDUSTRIES LTD 50 WEST DRIVE, BRAMPTON, ON CANADA, L6T 2J4 TEL: 905 625-8000 FAX: 905 625-4204		08/17/2023 DATE
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-155	08/17/23	3		
2			4		
					23-181 DRAWING No
					SHEET 1 OF 13

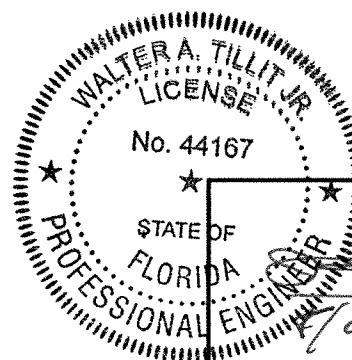


EXTERIOR ELEVATION (INSWING) DOOR
CYLINDRICAL LOCK + DEAD BOLT

A.S.D. DESIGN LOAD
+65.0 psf, -65.0 psf



EXTERIOR ELEVATION (INSWING) DOOR
MORTISE DEVICE



P.E. SEAL/SIGNATURE/DATE

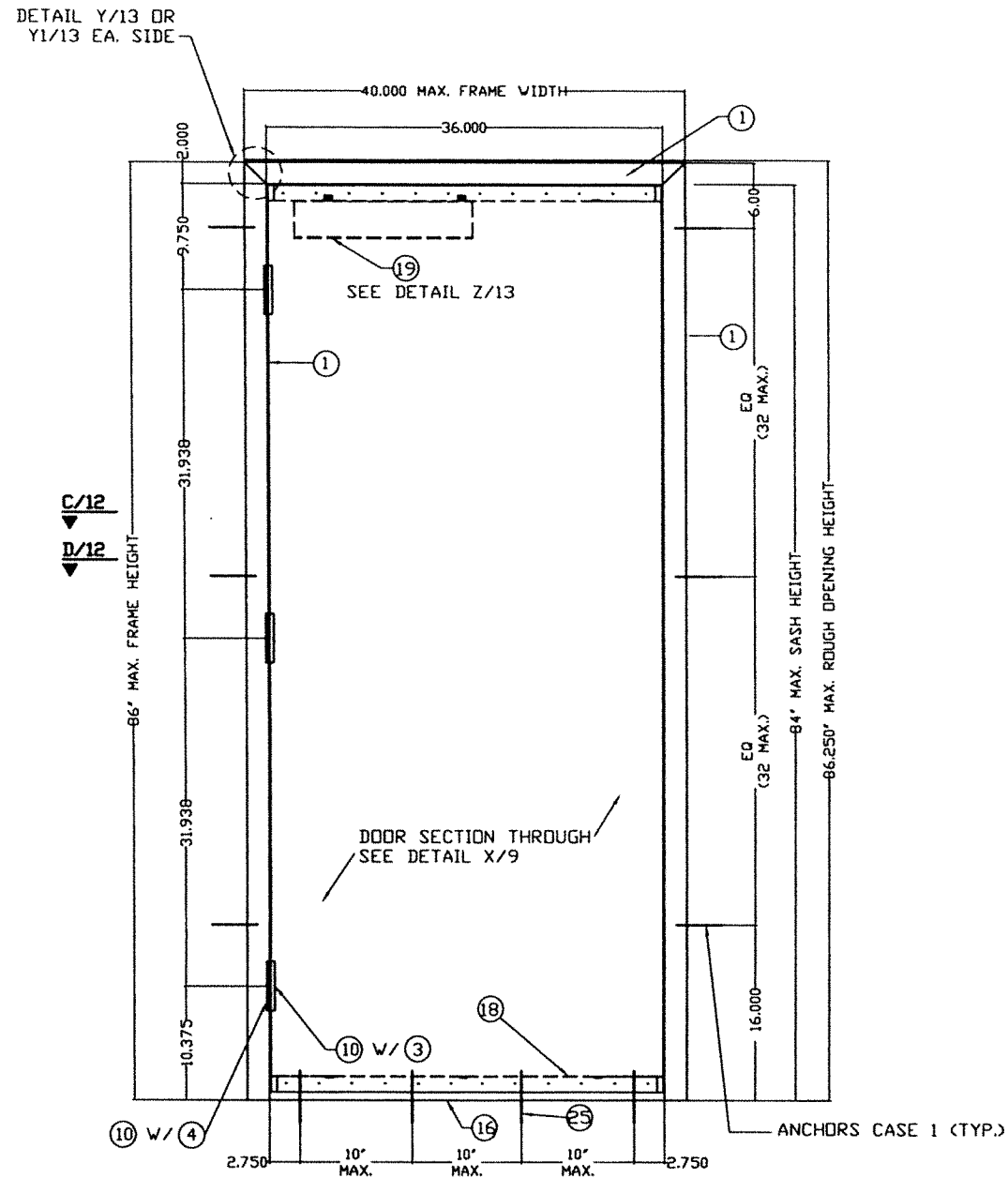
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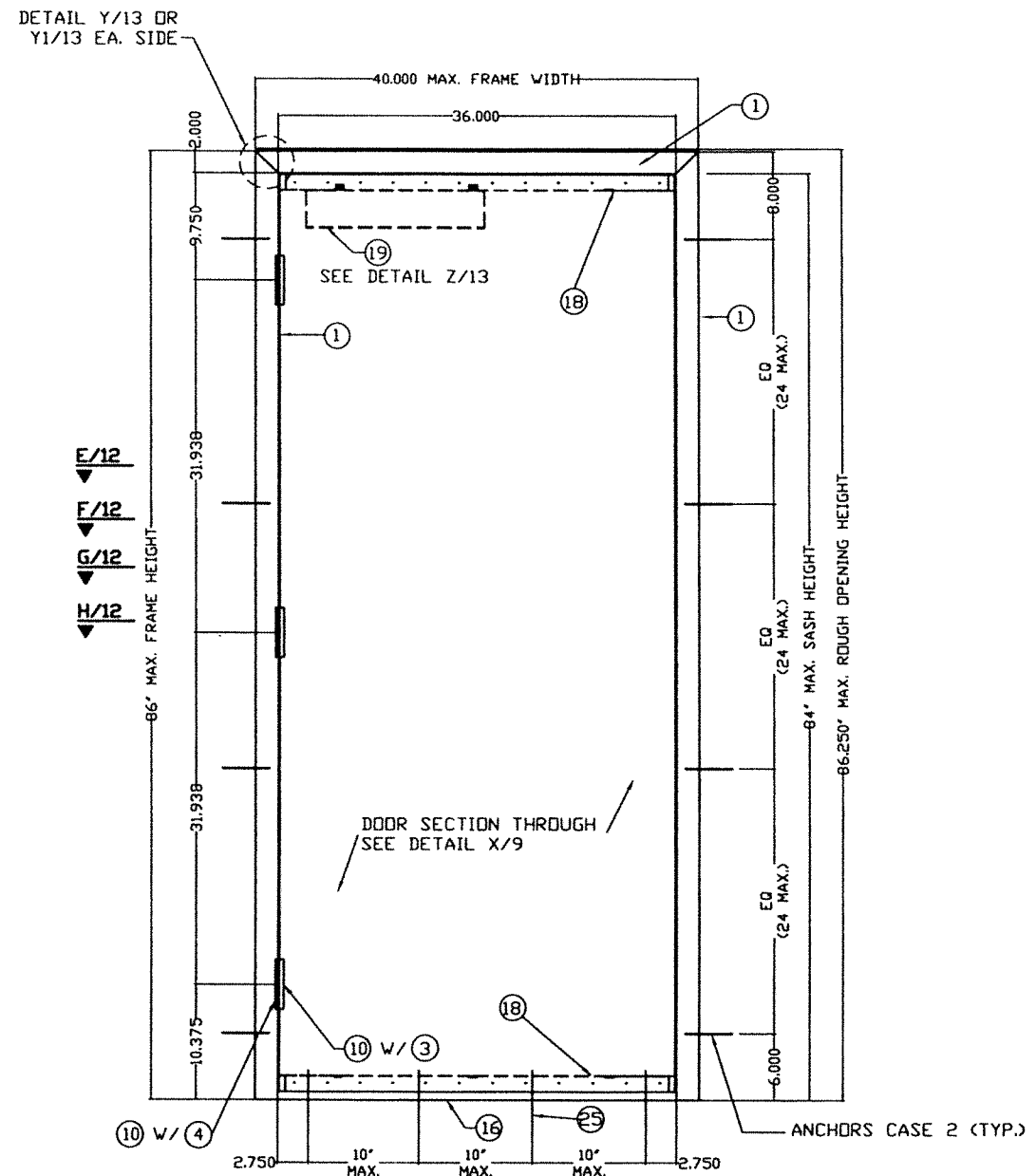
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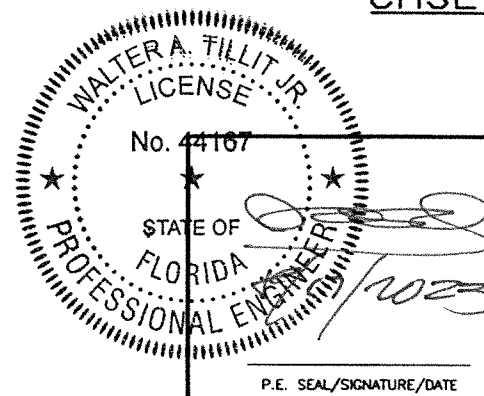


EXTERIOR ELEVATION (OUTSWING) DOOR
CASE 1 (SEE SHEET 12)



EXTERIOR ELEVATION (OUTSWING) DOOR
CASE 2 (SEE SHEET 12)

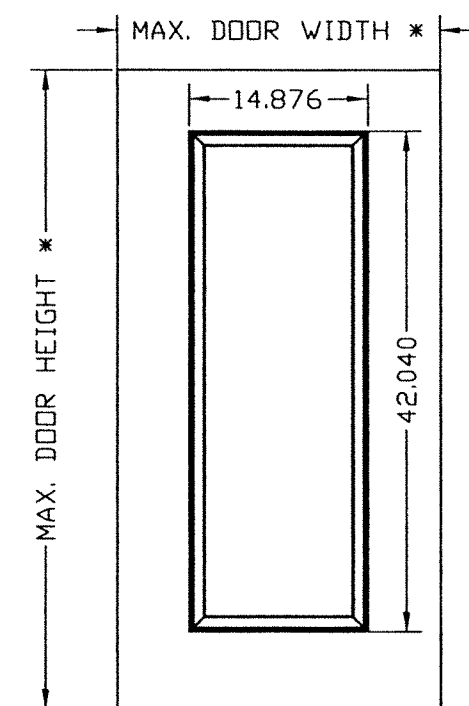
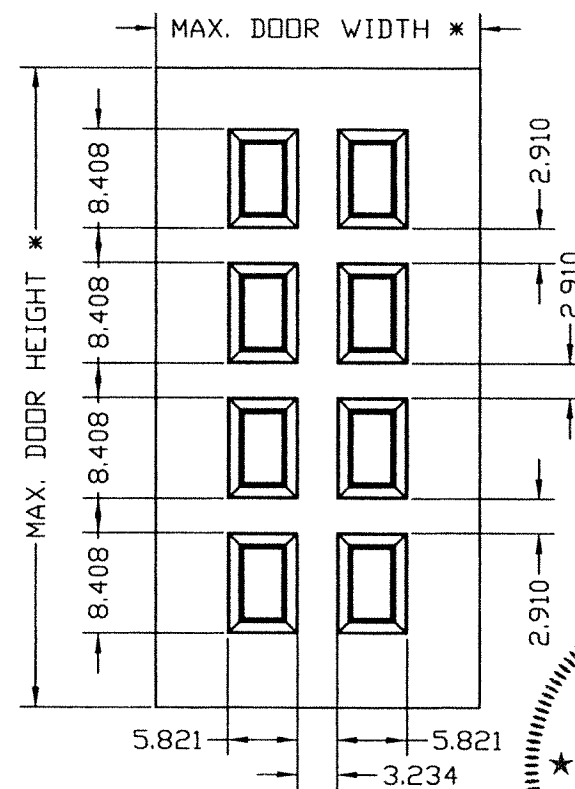
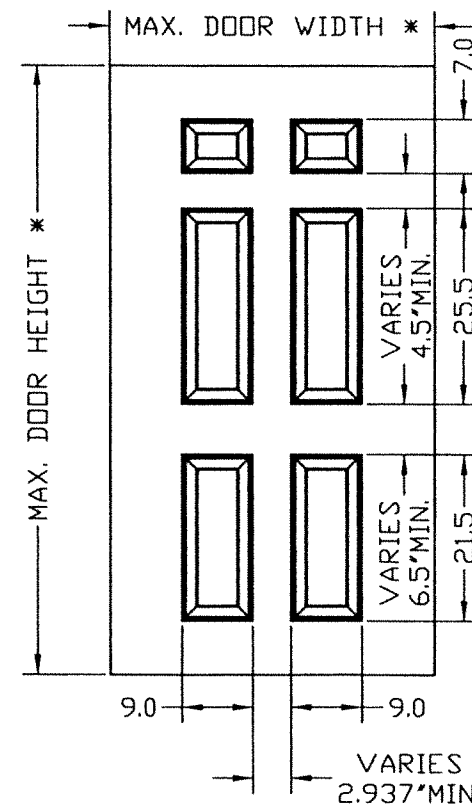
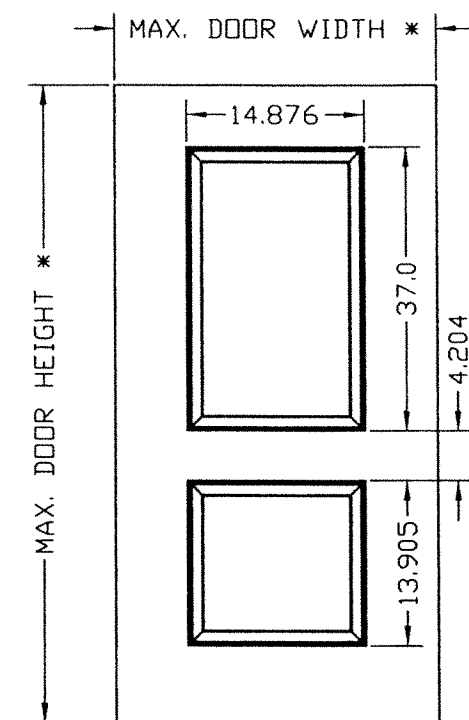
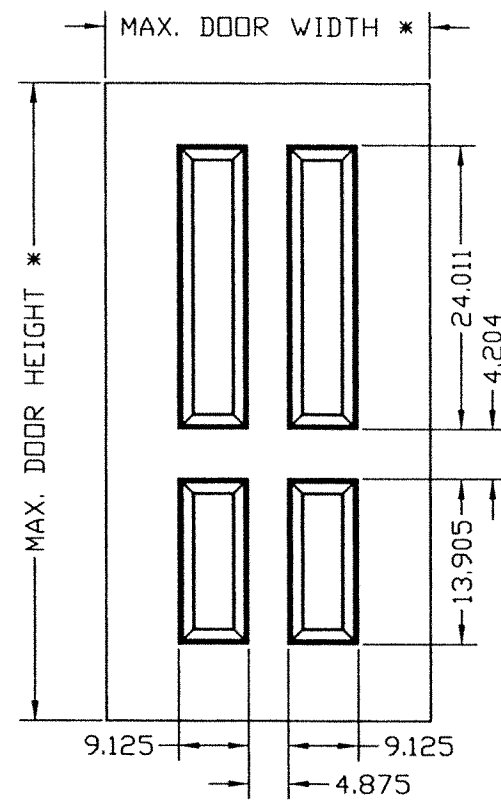
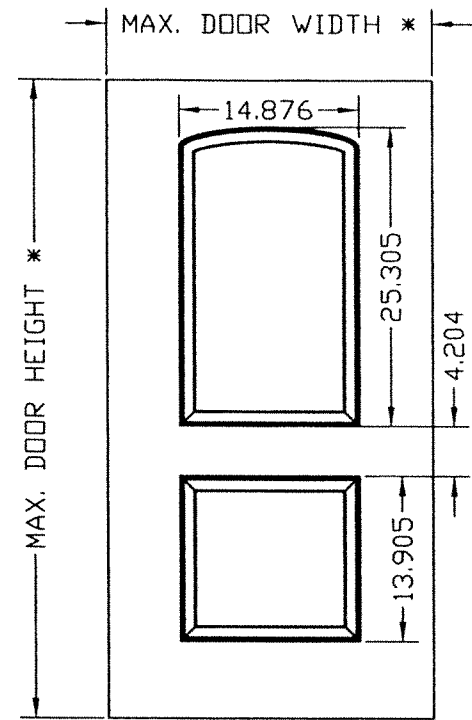
ANCHORAGE INSTALLATION
DETAILS AT JAMBS



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

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TILLIT TESTING & ENGINEERING COMPANY
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						23-181 DRAWING No	
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1	OLD 20-155	08/17/23	3				
2			4				



* SEE SHEET 2

OPTIONAL EMBOSSED DOOR ELEVATIONS

WALTER A. TILLIT JR.
LICENSE
No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER

8/17/2023

P.E. SEAL/SIGNATURE/DATE

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DRAWN BY:
Y.M.

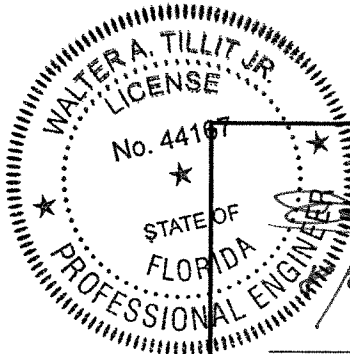
08/17/2023
DATE

23-181
DRAWING No

SHEET 4 OF 13

BILL OF MATERIALS INSWING 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 FDR ① (Fu=52Ksi, Fy=45Ksi) OR STAINLESS STEEL (Fu=94.9 Ksi, Fy=54.5 Ksi) FDR ①A, OF SAME DIMENSION
2	20 GAUGE FLUSH DOOR COMMERCIAL STEEL	1 3/4" THICK X (.032 MIN) GALVANNEAL, Fu=60Ksi Fy=45Ksi; C/W PAPER HONEYCOMB OR NOA APPROVED STYRENE OR 1.5 PCF 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 ANCHOR	1 13/16" X 4 1/8" X 20 GAUGE GALVANNEAL (.032 MIN), SNAPPED TO ACHIEVE 5 5/8" TOTAL DEPTH
8	EMA ANCHOR BOLTS	3/8" X 5" STEEL 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"Ø x 6" LAG SCREW
10	HINGES-HAGER BB1191	4.5" X 4.5" STANDARD WEIGHT (.134 THICK)
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 (.051" MIN.) GALVANNEAL STEEL
19	DOOR SURFACE CLOSER REINFORCEMENT	14 GAGE (.072" MIN.) x 3 1/2" x 1.6875 x 16.250" LONG. 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 ULTRACONS BY ELCO CONSTRUCTION PRODUCTS, 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
29	T STRAP ANCHOR DAYBAR # PT1-001A	18 GAGE (.042") GALVANNEAL, W/ Fy= 33Ksi, Fu= 44Ksi



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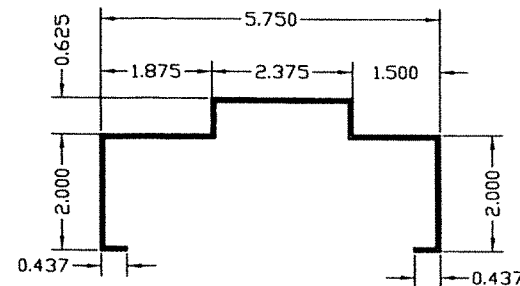
DRAWN BY:
Y.M.

08/17/2023
DATE

23-181
DRAWING No

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-155	08/17/23	3		
2			4		

SHEET 5 OF 13

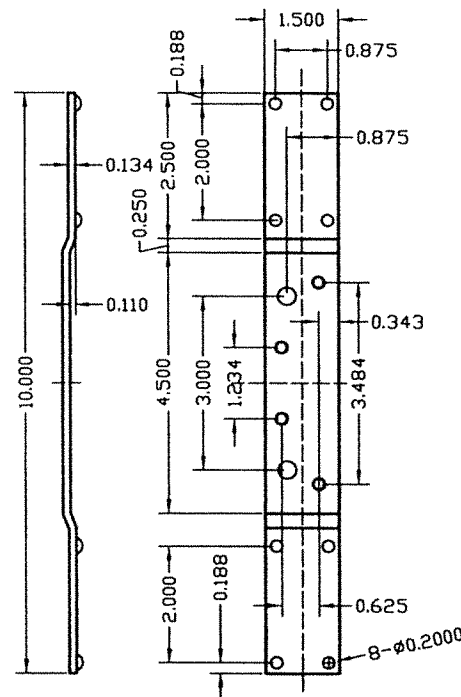


① AS 5 3/4" TYPICAL SECTION THROUGH

MATERIAL:
GAUGE 18 (0.042) MINIMUM
GALVANNEAL

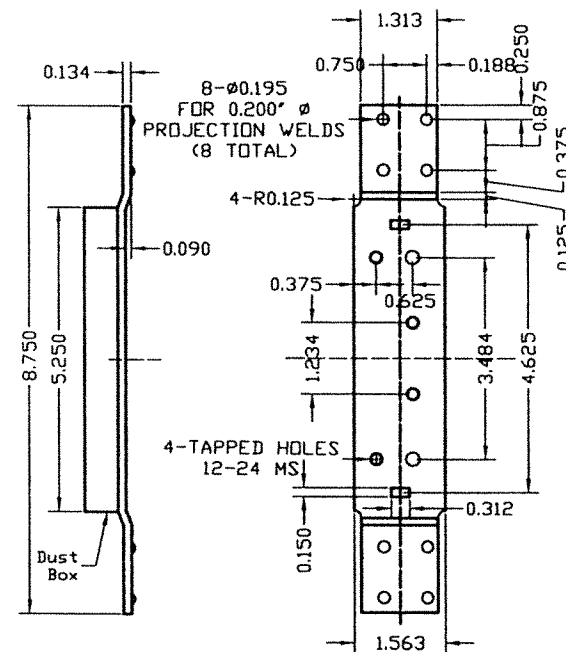
1A AS 5 3/4" TYPICAL SECTION THROUGH

MATERIAL:
GAUGE 18 (0.042) MINIMUM
STAINLESS STEEL



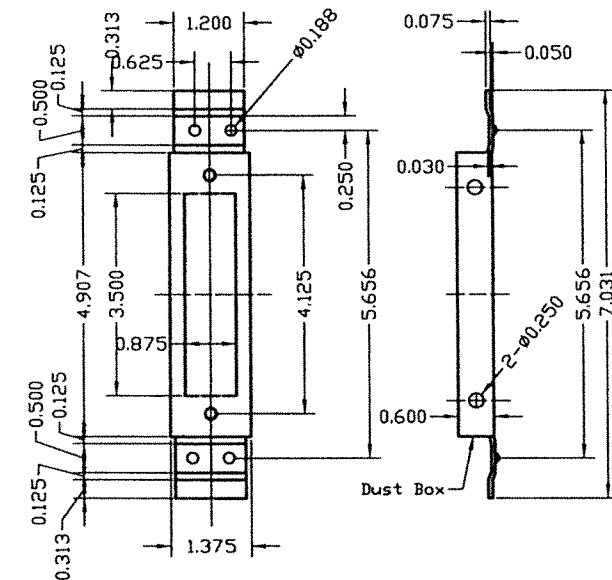
③ DOOR HINGE REINFORCING

MATERIAL:
GAUGE 10 (0.134) MINIMUM
GALVANNEAL



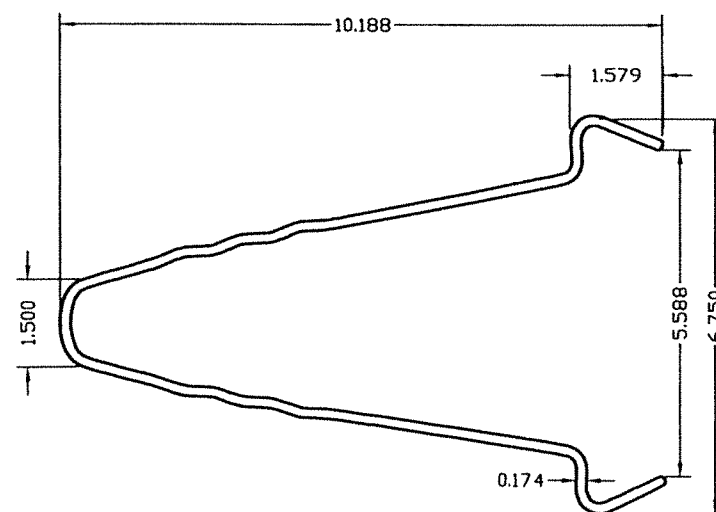
④ 4 1/2" FRAME HINGE REINFORCING

MATERIAL:
GAUGE 10 (0.134) MINIMUM
GALVANNEAL



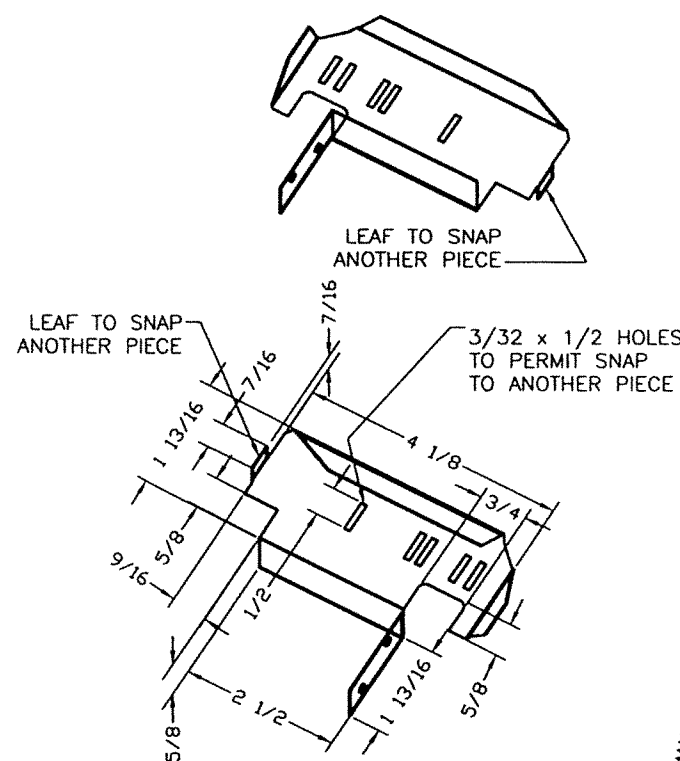
⑤ 4 7/8" STRIKE REINFORCEMENT FOR FRAME

MATERIAL:
GAUGE 12 (0.072) MINIMUM
GALVANNEAL



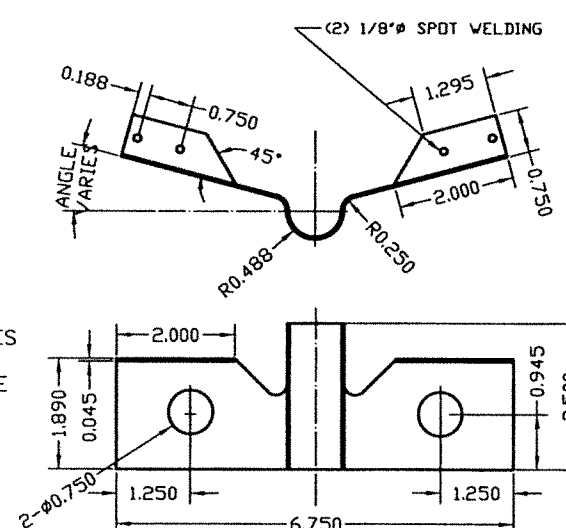
⑥ WIRE ANCHOR

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



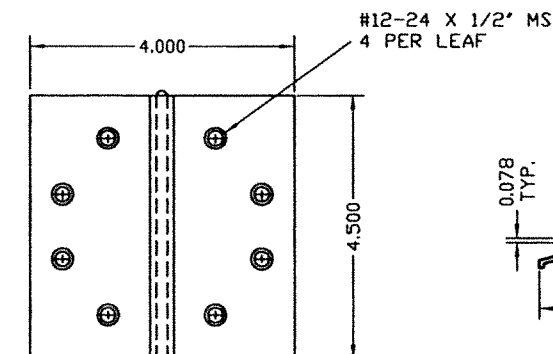
⑦ 2 PIECE SNAP-IN STUD ANCHOR

CLIPIN STUD ANCHOR MATERIAL: GAUGE
20 (0.032) ASTM A-653,
GALVANNEALED STEEL.



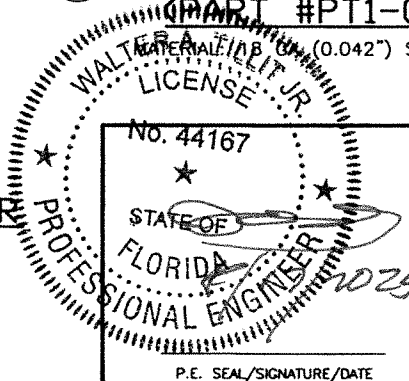
8A EMA BUTTERFLY ANCHOR (PART #PT1-008)

MATERIAL: 18 GA (0.042") SATIN COAT



⑩ HINGES-HAGER BB1279
t=0.134" THICK

⑪ EXTRUDED ALUMINUM THRESHOLD NGP #950NA W/ NEOPRENE BULB



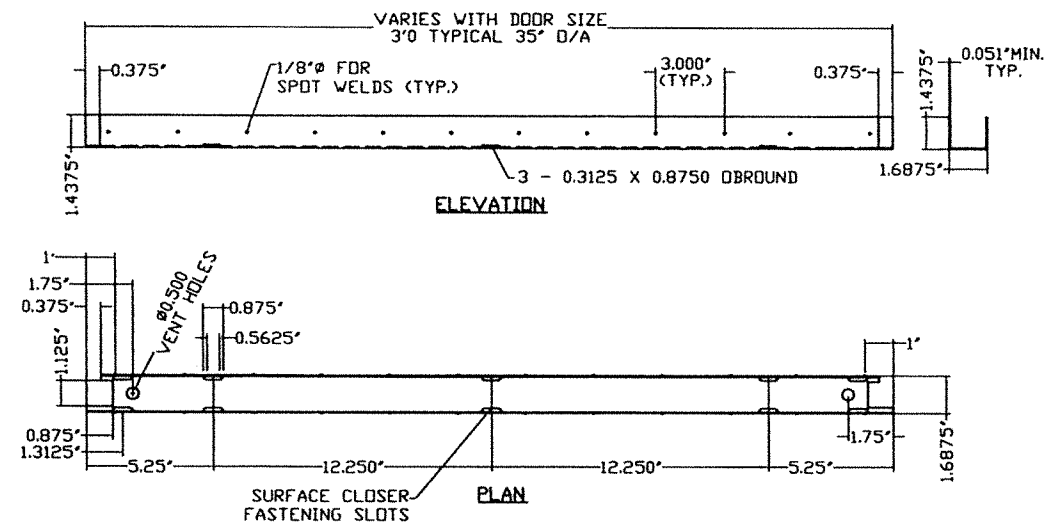
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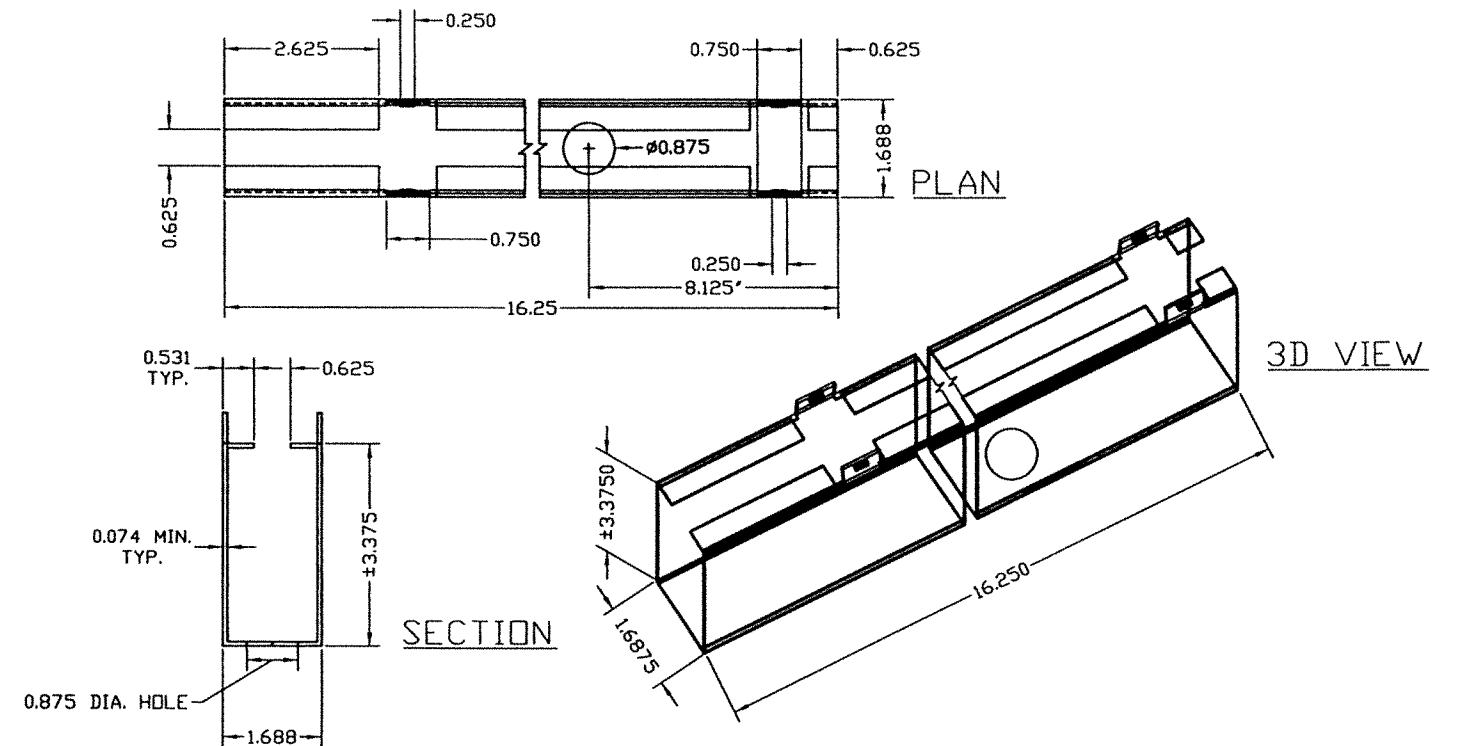
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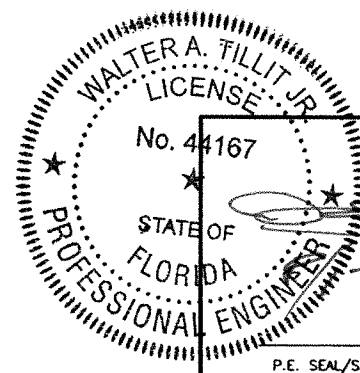
18 DOOR END CHANNEL REINFORCEMENT

MATERIAL:
16 GAUGE (0.051) MINIMUM
GALVANNEAL



19 DOOR SURFACE CLOSER REINFORCING

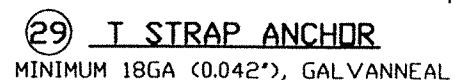
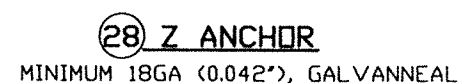
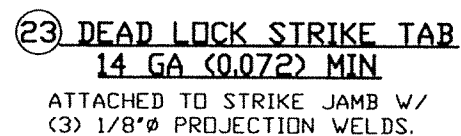
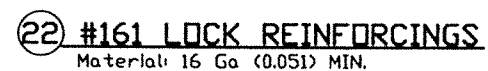
MATERIAL:
14 GAUGE (0.072)
MINIMUM GALVANNEAL



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SERIES LS20GA FLUSH COMMERCIAL STEEL INSWING DOOR W/SERIES "AS" 18GA STEEL FRAME						DRAWN BY: Y.M.	
DAYBAR INDUSTRIES LTD 50 WEST DRIVE, BRAMPTON, ON CANADA, L6T 2J4 TEL: 905 625-8000 FAX: 905 625-4204						08/17/2023 DATE	
						23-181 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	SHEET 7 OF 13	
1	OLD 20-155	08/17/23	3				
2			4				



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e-mail: tiltco@aol.com
CA-0006719
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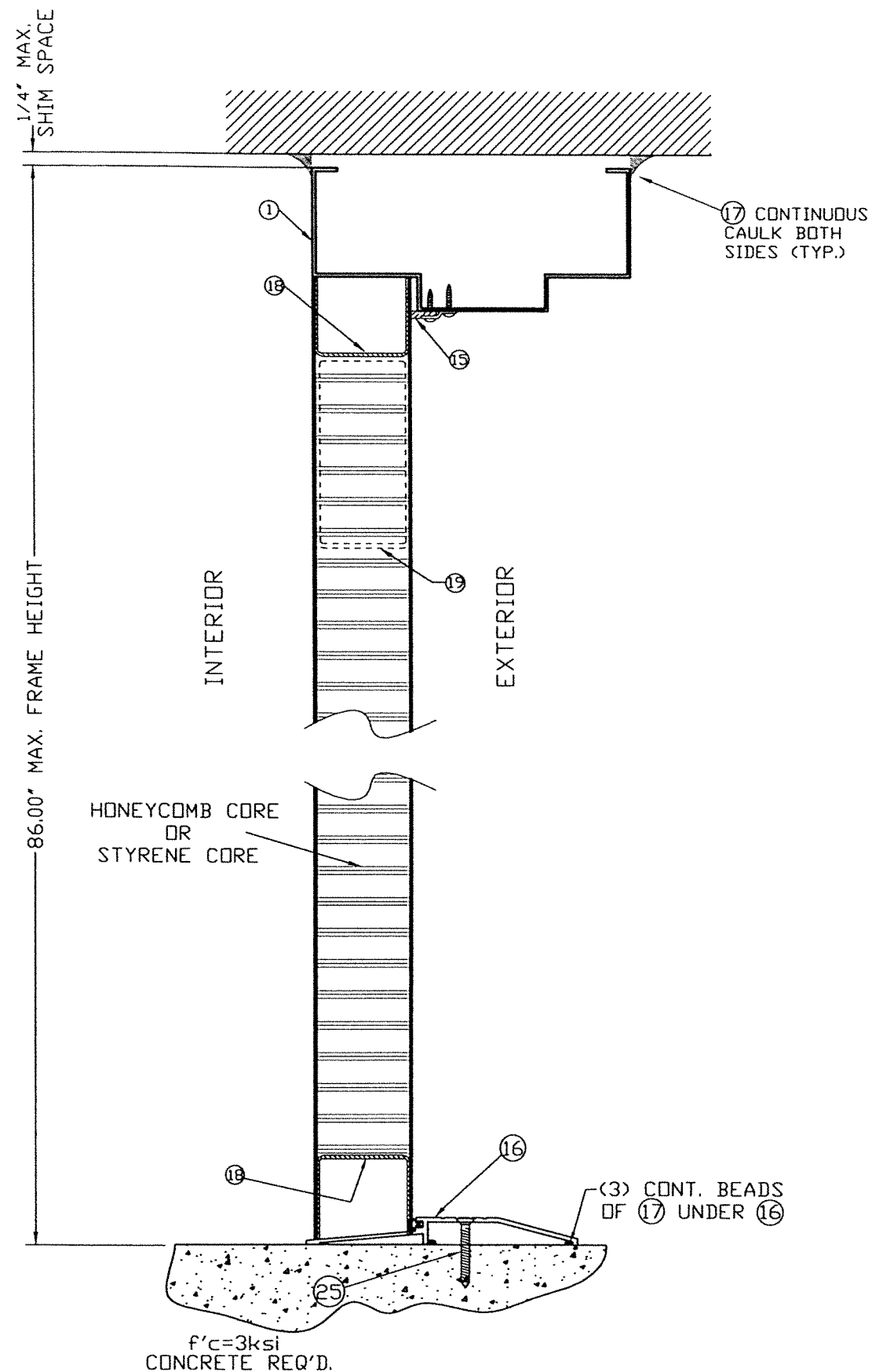
DRAWN BY:
Y.M.

08/17/2023
DATE

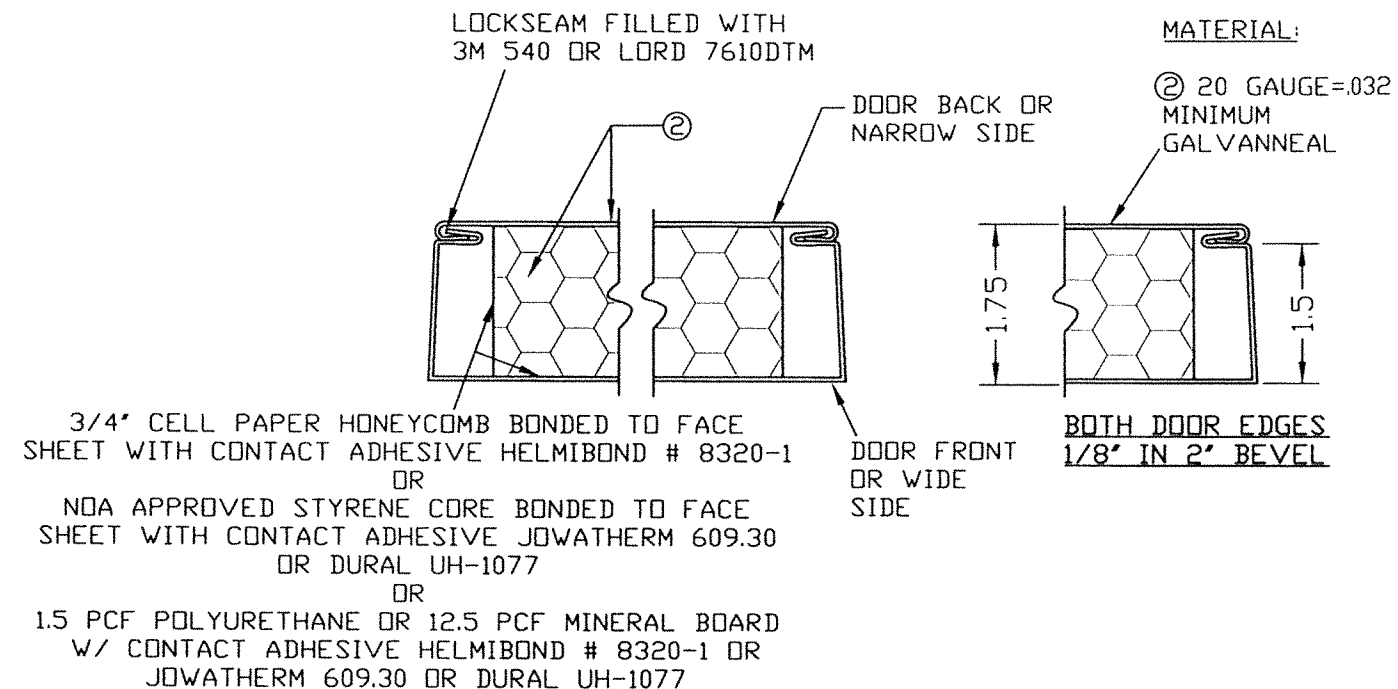
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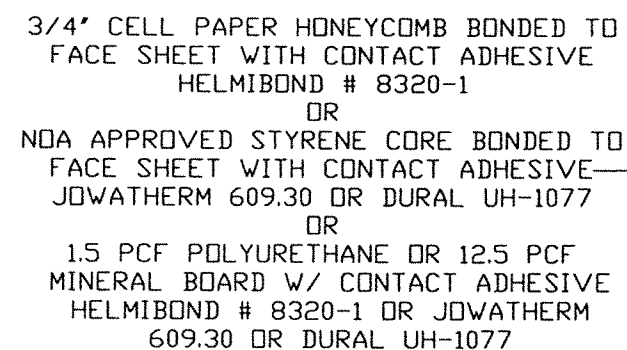
SHEET 8 OF 13



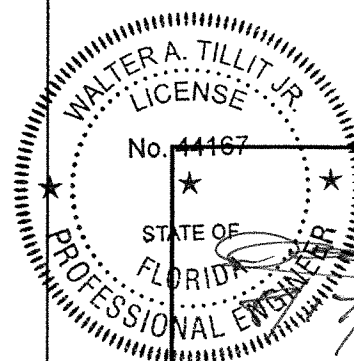
SECTIONS A1-A1 & A2-A2
AT DOOR PANEL/FRAME



DOOR SECTION THROUGH EDGE SEAM,
DETAIL X



VERTICAL SECTION AT DOOR PANEL
DOOR PANEL CONSTRUCTION



P.E. SEAL/SIGNATURE/DATE

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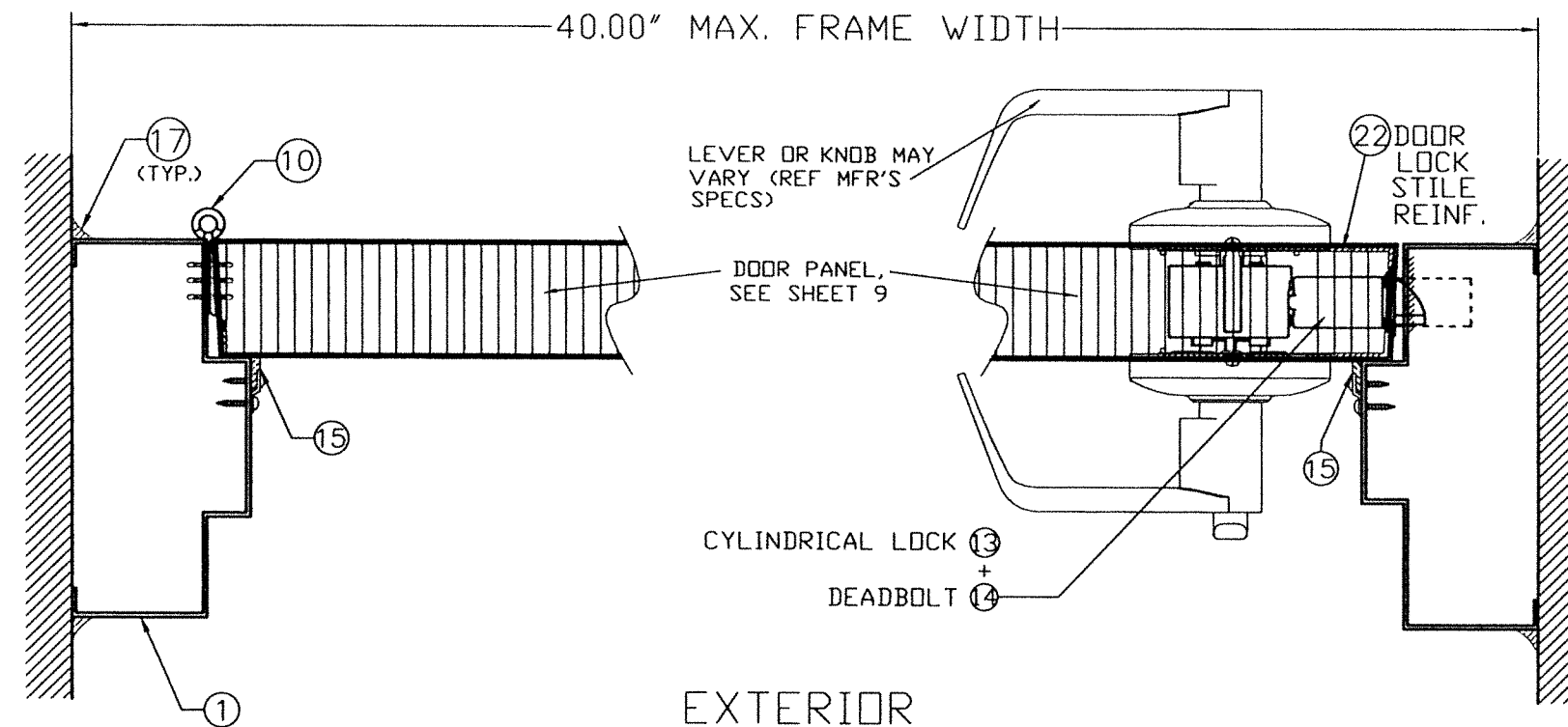
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Y.M.

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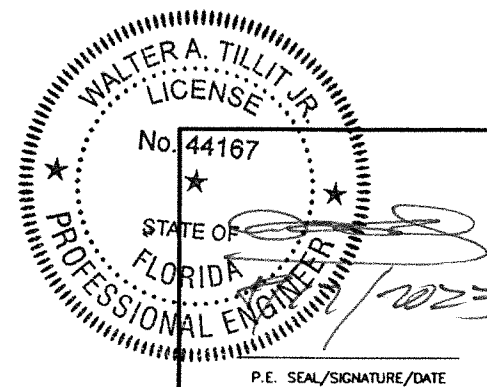
23-181
DRAWING No

SHEET 9 OF 13

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-155	08/17/23	3		
2			4		



SECTION B1-B1



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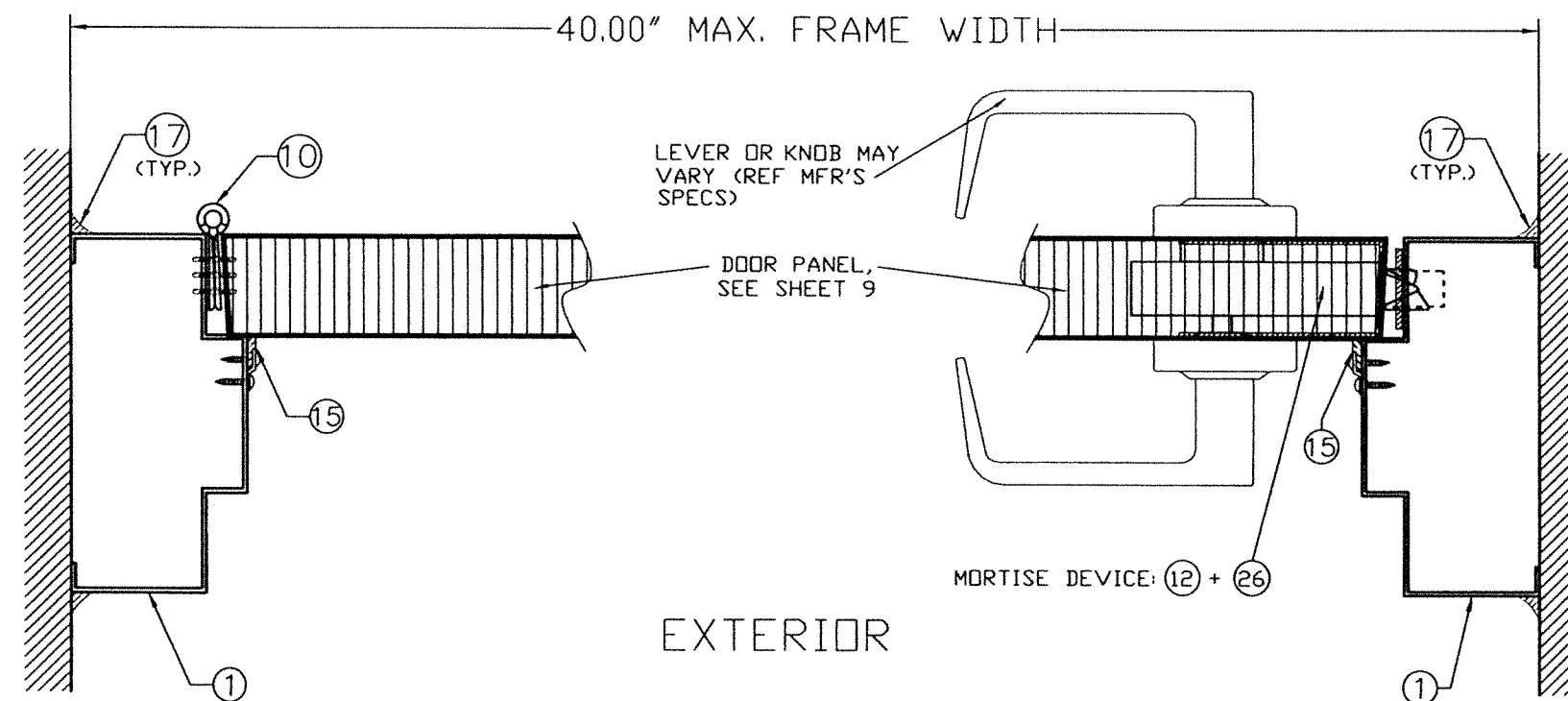
DRAWN BY:
Y.M.

08/17/2023
DATE

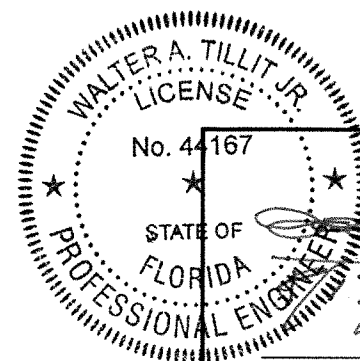
23-181
DRAWING No

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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2			4		

SHEET 10 OF 13



SECTION B2-B2



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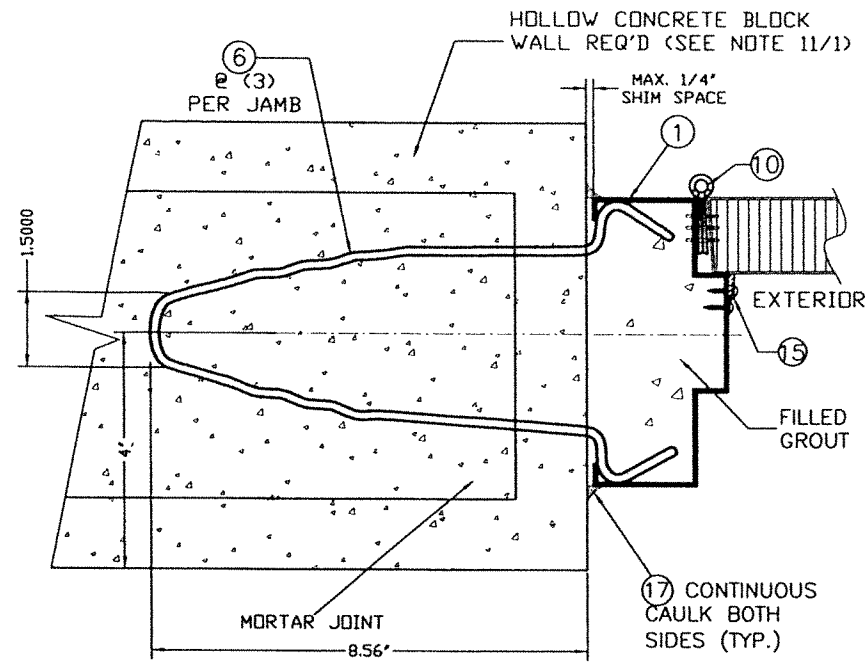
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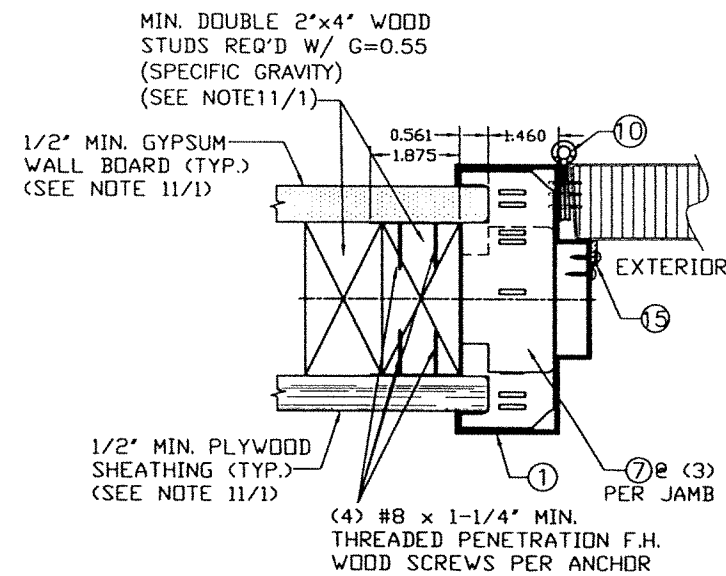
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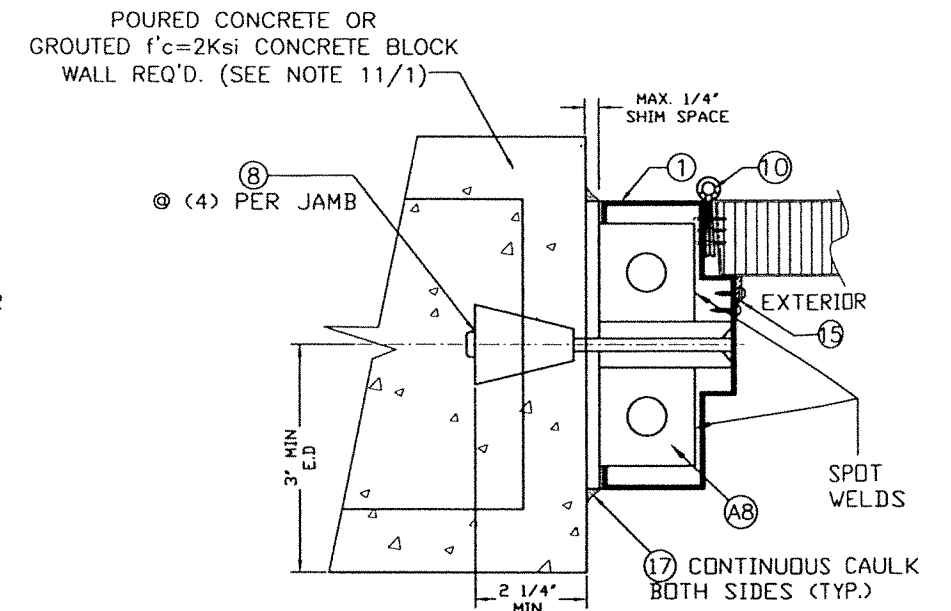
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DAYBAR INDUSTRIES LTD						08/17/2023 DATE
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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	SHEET 11 OF 13
1	OLD 20-155	08/17/23	3			
2			4			



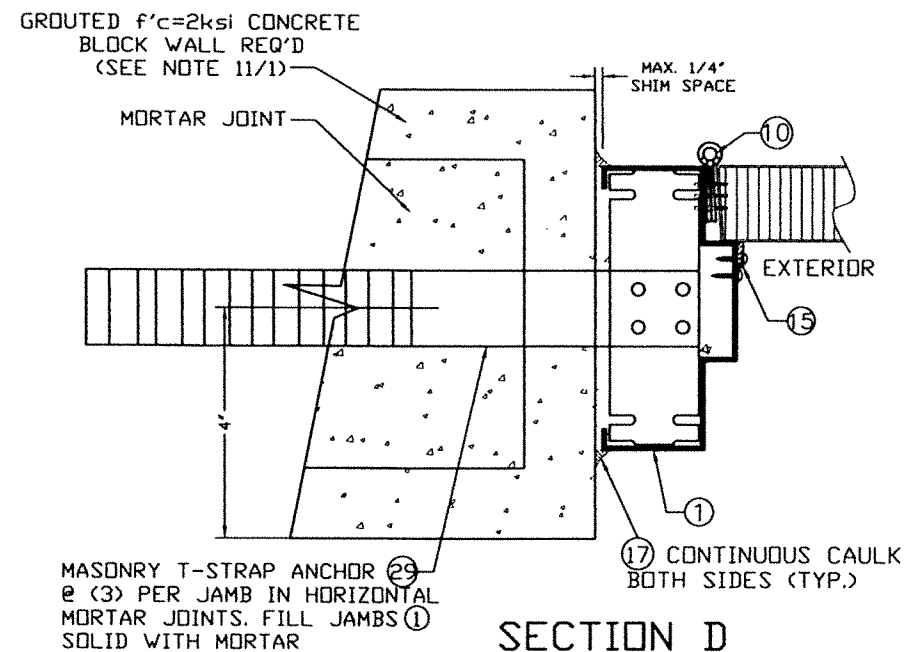
SECTION C



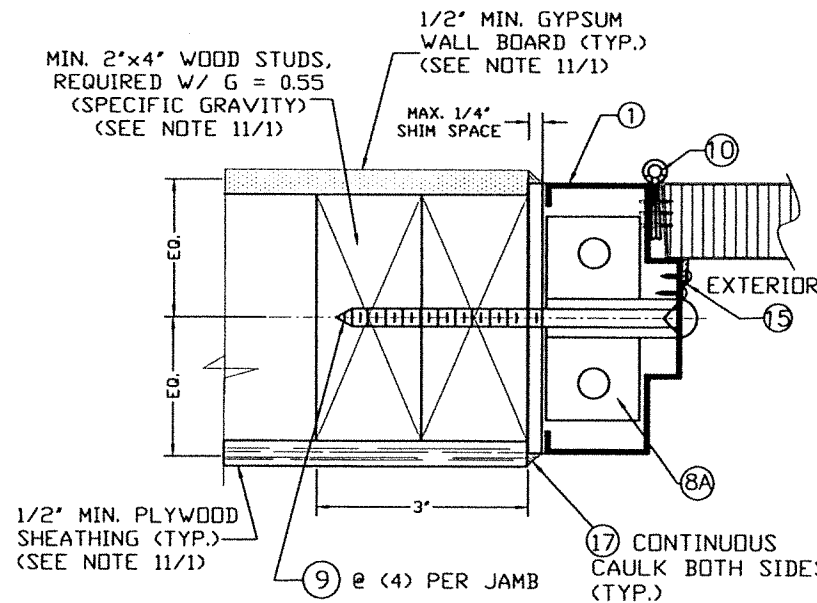
SECTION E



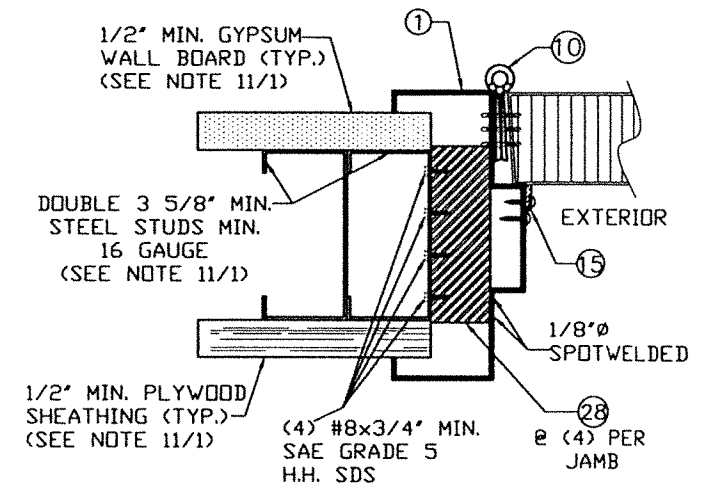
SECTION F



SECTION D



SECTION G

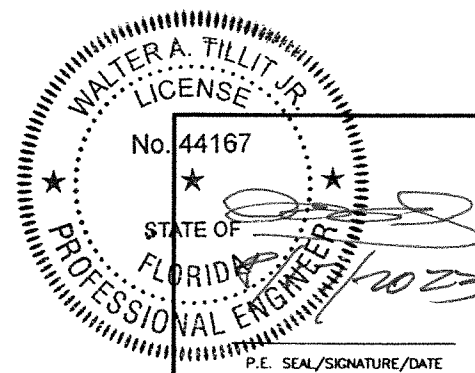


SECTION H

CASE 1

CASE 2

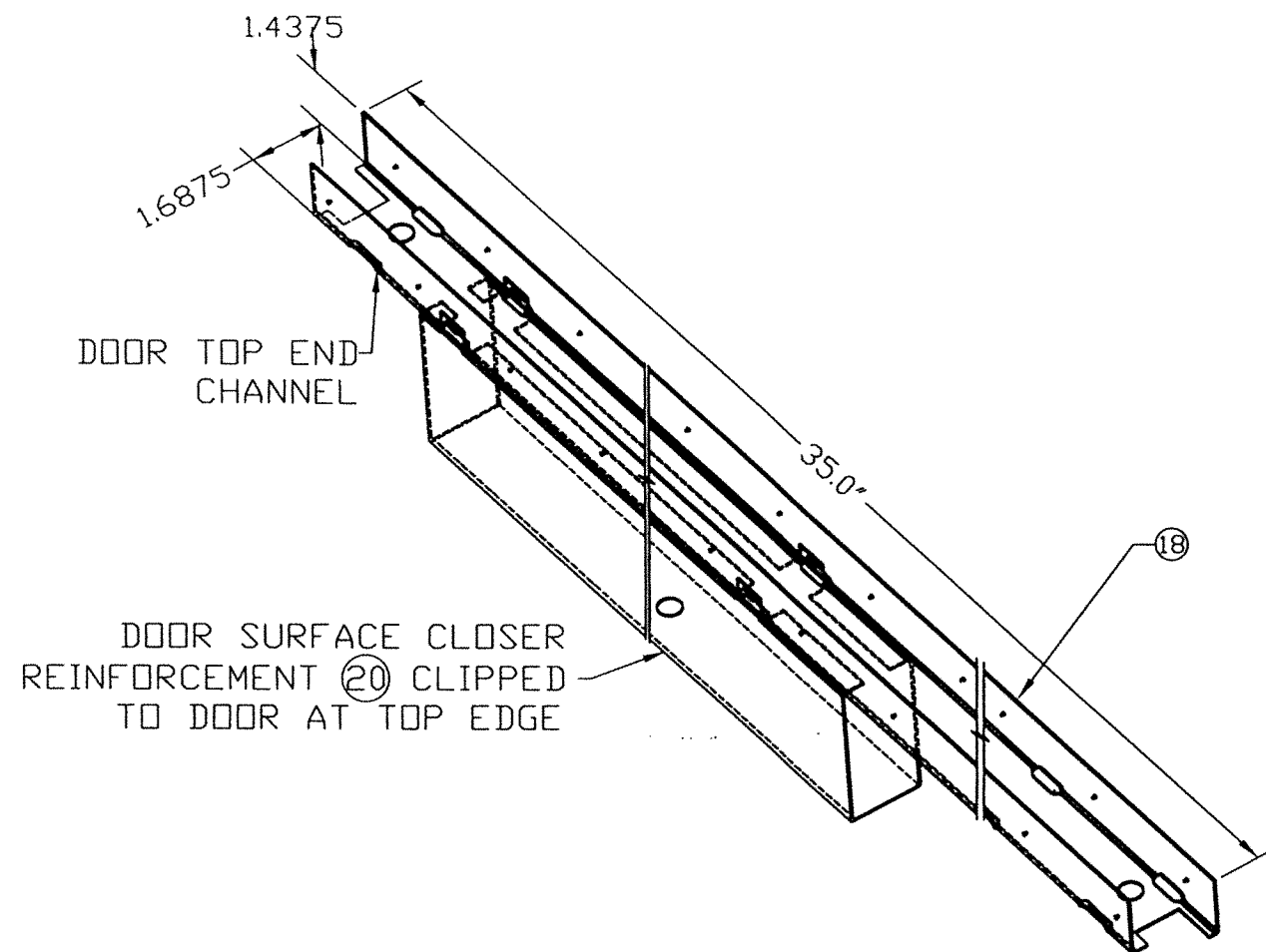
ANCHORAGE DETAIL AT JAMBS



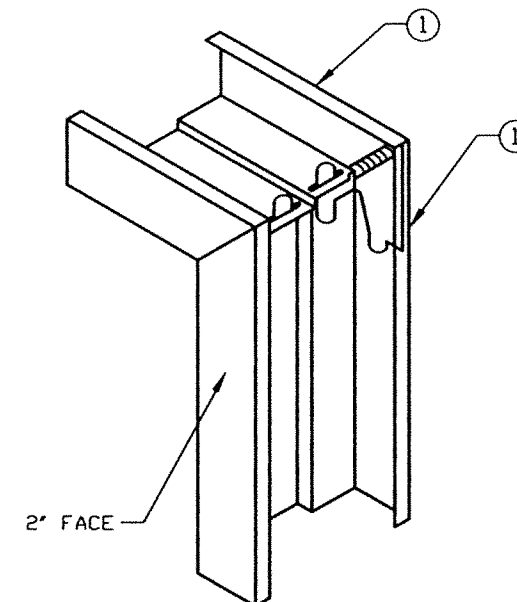
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2			4		
				SHEET 12 OF 13	

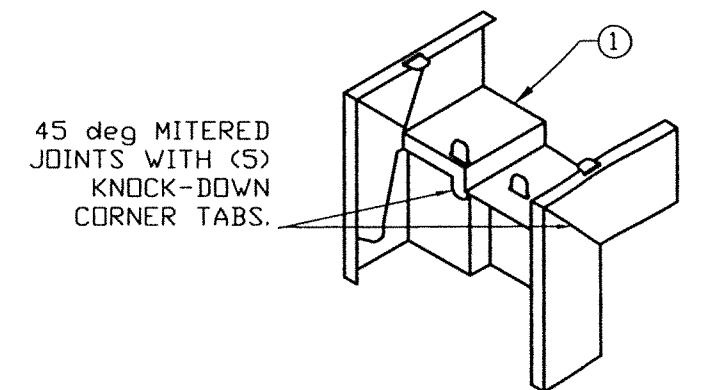


DOOR SURFACE CLOSER REINFORCEMENT (20)
AND END CHANNEL (18) ASSEMBLY DETAIL
DETAIL Z



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

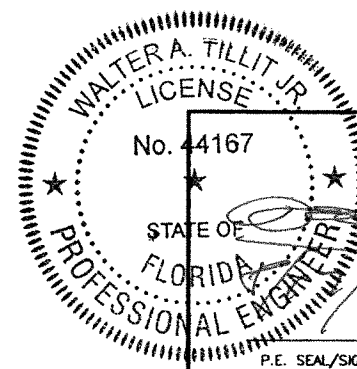
DETAIL Y



FRAME CORNER:
KD 3 PIECE ASSEMBLED
AND CAULKED W/ (17)

DETAIL Y1

CORNER DETAILS Y, Y1



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SHEET 13 OF 13