

SHEETS CONTENT:

- SHEET #1 INDEX, COVER SHEET & GENERAL NOTES
SHEET #2 ASSEMBLY ELEVATIONS No 1, 2, 3.
SHEET #3 ASSEMBLY ELEVATIONS No 7, 7-EMB.
SHEET #3A MAX. DESIGN PRESSURE RATING (psf.) SCHEDULE.
SHEET #4 OPTIONAL EMBOSSED DOOR SHEET CONFIGURATIONS.
SHEET #5 HORIZONTAL SECTIONS A-A & B-B.
SHEET #6 HORIZONTAL SECTIONS C-C & C'-C'.
SHEET #7 VERTICAL SECTIONS D-D, E, F, G, H, I AND HORIZONTAL SECTION J-J
SHEET #8 DAYBAR & AIR LOUVERS VISION LITE DETAILS.
SHEET #9 FRAME SECTIONS, & REINFORCINGS DETAILS AND THRESHOLD DETAIL
SHEET #10 TYPICAL DOOR SECTION, "Z" ASTRAGAL & ASA STRIKE REINFORCING
SHEET #11 MULLION INSTALLATION DETAILS.
SHEET #12 SURFACE BOLT INSTALLATION AND DETAILS.
SHEET #13 DOOR TOP AND BOTTOM TYPICAL END CHANNEL DETAIL.
DOOR SURFACE CLOSER REINFORCEMENT DETAIL.
DOOR SURFACE CLOSER AND END CHANNEL ASSEMBLY.
SHEET #14 DOOR SNAP IN TOP CAP DETAILS.
SHEET #15 HINGE BAR REINFORCING FOR DOOR.
ANSI #A115.1 #86 MORTISE LOCK/RIM PANIC REINFORCING
DOOR SURFACE BOLT REINFORCING DETAIL.
SHEET #16 #161 CYLINDRICAL LOCK AND DEAD BOLT REINFORCEMENT DETAIL.
SHEET #17 ANCHOR DETAILS.
SHEET #18 ANCHOR SCHEDULE.
WIRE ANCHOR DETAIL.
2 PIECE COMBINATION STUD ANCHOR DETAIL.
EMA BUTTERFLY ANCHOR DETAIL.
SHEET #19 BILL OF MATERIALS.

GENERAL NOTES AND SPECIFICATIONS:

1. DOUBLE & SINGLE SERIES LS18 FLUSH/EMBOSSED OUTSWING COMMERCIAL STEEL DOOR W/SERIES "AS" FRAME, 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 OF THE ABOVE MENTIONED CODE, USING **ASCE 7-22** AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON SHEETS 2, 3 & 3A.
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 SHEETS 2, 3 & 3A.
- THIS DOOR'S ADEQUACY FOR WIND AND IMPACT LOAD HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1626 OF THE ABOVE MENTIONED CODE AS PER PROTOCOLS TAS-201, TAS-202, TAS-203 AS PER HTL LAB REPORT #0279-0719-03 AND AS PER SUBMITTED STRUCTURAL CALCULATIONS, PERFORMED AS PER SECTION **1616** OF THE FLORIDA BUILDING CODE.
2. ALL COMPONENTS SHALL BE AS SPECIFIED ON APPLICABLE DETAIL SHEETS AND AT THE BILL OF MATERIALS (SHEET 19) OF THIS DRAWING.
3. COMPLIANCE OF EGRESS / ESCAPE REQUIREMENTS OF THESE DOORS PER FBC 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 17 OF THIS DRAWING, AND SHALL COMPLY WITH SECTION 1711 OF THE FLORIDA BUILDING CODE. MAXIMUM ANCHOR SPACING SHALL BE AS PER SCHEDULE ON SHEET 18 AND ELEVATIONS ON SHEETS 2 & 3 OF THIS DRAWING. SEE SHEET 2, 3 & 7 FOR THRESHOLD ANCHORS, AND SHEET 11 FOR MULLION ANCHORS.
7. PROVIDE MAX. LOAD BEARING SHIM SPACE AS INDICATED ON SHEETS 5, 6, 7 & 17 OF 19.
- 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 NOTE 1, AND SHALL BE LIMITED TO DESIGN PRESSURE RATINGS INDICATED ON SHEETS 2, 3 & 3A.
10. PROVIDE SPECIFIED SEALANT AT ALL DOOR FRAME, THRESHOLD AND VISION LITE COMPONENTS INDICATED ON THIS DRAWING.
11. (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) ORIGINAL P.E.D SHALL BEAR THE DATE, SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD WHO PREPARED IT.
12. 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.

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



©2026 TILTECO, INC.
TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355N.W. 38th. 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

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

DOUBLE & SINGLE SERIES LS18 OUTSWING COMMERCIAL
GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "AS"
16 GAGE GALVANNEAL OR STAINLESS STEEL FRAME
FLUSH, EMBOSSED & GLAZED ASSEMBLIES - L.M.

DAYBAR INDUSTRIES LTD

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

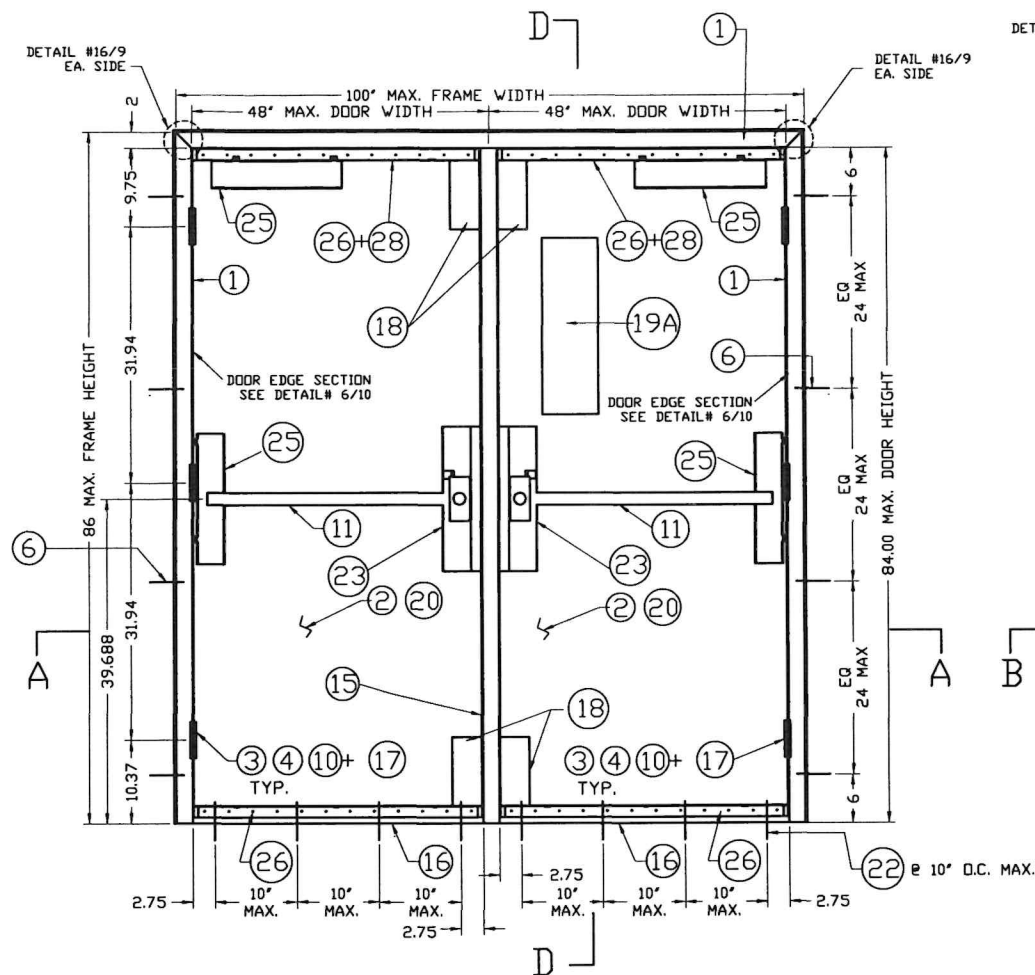
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-174	08/07/2026	3		
2			4		

DRAWN BY:
W.H.

08/07/2026
DATE

26-248
DRAWING No

SHEET 1 OF 19



ASSEMBLY #1, * INTERIOR ELEVATION

PAIR OF OUTSWING DOORS

WALL CONDITION : MASONRY

ANCHORS: WIRE (6) DETAIL #21

VON DUPRIN 98/99L TRIM SERIES RIM EXIT (1)

AT BOTH DOORS

4 1/2" HAGER MODEL #BB1168 STEEL BUTT HINGE AND

4 1/2" STANLEY MODEL #FBB168 STEEL BUTT HINGE (10)

VON DUPRIN 9954 REMOVABLE MULLION (15)

(FOR DOUBLE DOOR ONLY)

DOOR CORE ITEM (20) : EXPANDED POLYSTYRENE OR HONEYCOMB

PAPER OR 1.5 PCF POLYURETHANE OR 12.5 PCF MINERAL BOARD

FULL FLUSH

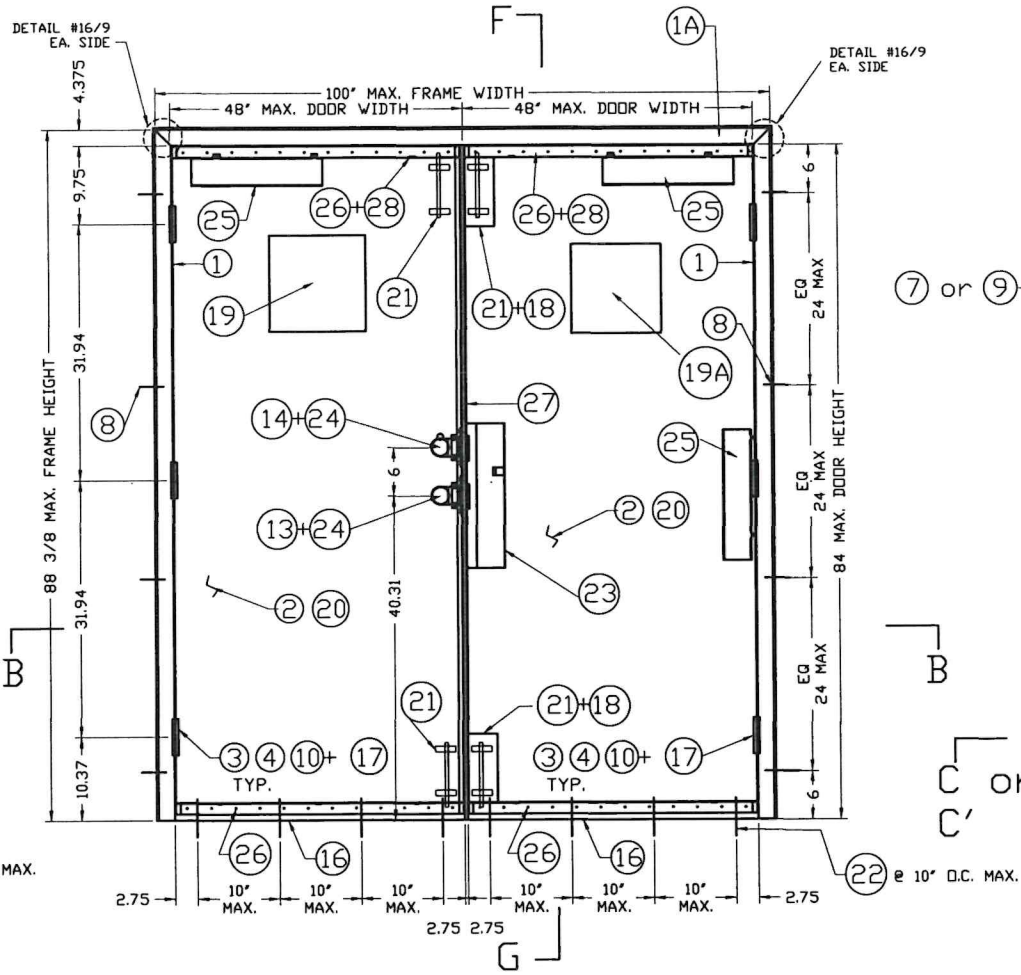
VISION LITE MODEL VLF-EZ-IG (19A), BY AIR LOUVERS, INC.,

W/ 1/2" LEXAN GLAZING SET IN DOW CORNING #995

STRUCTURAL SILICONE W/ 7" x 22" DOOR CUT-OUT

NARROWLITE (5"x20" D.L.O.)

MAX. A.S.D. DESIGN PRESSURE RATINGS (OUTSWING SINGLE & DOUBLE DOORS W/ VON DUPRIN RIM PANIC DEVICES)	
POSITIVE	+70 PSF
NEGATIVE	-65 PSF



ASSEMBLY #2, * INTERIOR ELEVATION

PAIR OF OUTSWING DOORS

WALL CONDITION : MASONRY

ANCHORS: EMA EXISTING MASONRY ANCHOR DET. #22

SCH-D SERIES CYLINDRICAL LOCK (13) + SCH-B SERIES DEAD BOLT (14)

HAGER #275D SURFACE BOLTS (2) (TOP & BOTTOM) AT

TWO DOORS

4 1/2" HAGER MODEL #BB1279 STEEL BUTT HINGE AND

4 1/2" STANLEY MODEL #FBB179 STEEL BUTT HINGE (10)

"Z" ASTRAGAL (27) W/ ASA STRIKE

FOR CYLINDRICAL LOCK AND DEAD BOLT STRIKE

DOOR CORE (20) : EXPANDED POLYSTYRENE OR HONEYCOMB PAPER OR

1.5 PCF POLYURETHANE OR 12.5 PCF MINERAL BOARD FULL FLUSH

VISION LITE MODEL VLF-EZ-IG (19A), BY AIR LOUVERS, INC.

W/ 1/2" LEXAN GLAZING SET IN DOW CORNING #995

STRUCTURAL SILICONE W/ 12" x 12" DOOR CUT-OUT

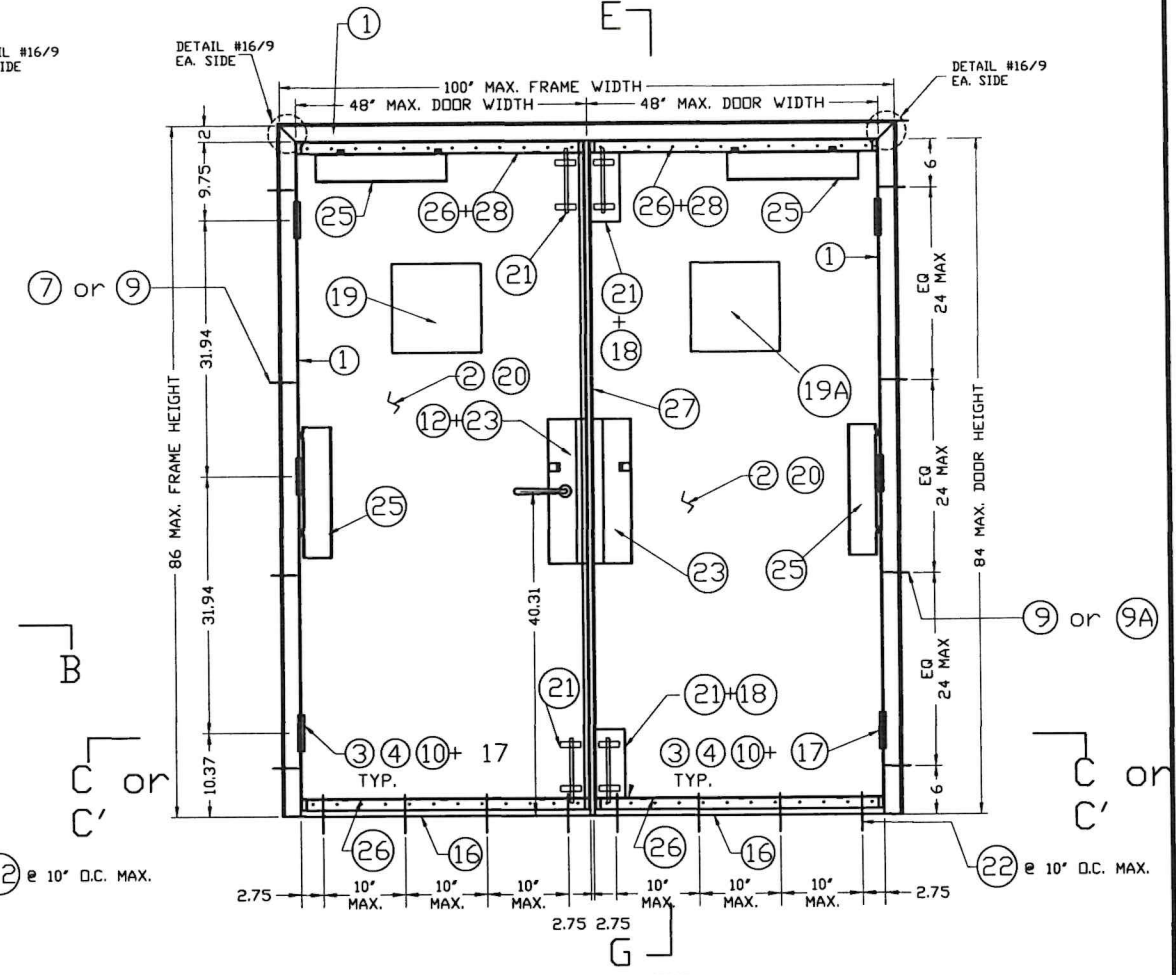
NARROWLITE (10"x10" D.L.O.), AND DAYBAR VISION LITE (19)

WITH 3/8" LEXAN GLAZING SET IN DOW CORNING #995

STRUCTURAL SILICONE, W/ 11 1/8" x 11 1/8" DOOR

CUT-OUT NARROWLITE (9 3/4"x9 3/4" D.L.O.)

MAX. A.S.D. DESIGN PRESSURE RATINGS (OUTSWING SINGLE DOOR W/ TWO SURFACE BOLTS & DOUBLE DOORS W/ FOUR SURFACE BOLTS)	
POSITIVE	+65 PSF
NEGATIVE	-65 PSF



ASSEMBLY #3, * INTERIOR ELEVATION

PAIR OF OUTSWING DOORS

WALL CONDITION : WOOD STUDS

ANCHORS: 2 PIECE COMBINATION STUD ANCHOR (7) DETAIL #20

OR CARRIAGE BOLT (9A) W/ EMA (DET. #22A) OR WOOD SCREW

LAG BOLT (9) W/ EMA (DETAIL #22B)

SCH-L 9000 SERIES MORTISE LOCK (12) (W/ DEAD BOLT INCLUDED)

HAGER #275D SURFACE BOLTS (2) (TOP & BOTTOM) AT TWO DOORS

4 1/2" HAGER MODEL #BB1279 STEEL BUTT HINGE AND

4 1/2" STANLEY MODEL #FBB179 STEEL BUTT HINGE (10)

"Z" ASTRAGAL (27) W/ ASA STRIKE FOR MORTISE LOCK

DOOR CORE (20) EXPANDED POLYSTYRENE OR HONEYCOMB PAPER OR

1.5 PCF POLYURETHANE OR 12.5 PCF MINERAL BOARD FULL FLUSH

VISION LITE MODEL VLF-EZ-IG (19A), BY AIR LOUVERS, INC.

W/ 1/2" LEXAN GLAZING SET IN DOW CORNING #995

STRUCTURAL SILICONE W/ 12" x 12" DOOR CUT-OUT

NARROWLITE (10"x10" D.L.O.), AND DAYBAR VISION LITE (19)

WITH 3/8" LEXAN GLAZING SET IN DOW CORNING #995

STRUCTURAL SILICONE, W/ 11 1/8" x 11 1/8" DOOR

CUT-OUT NARROWLITE (9 3/4"x9 3/4" D.L.O.)

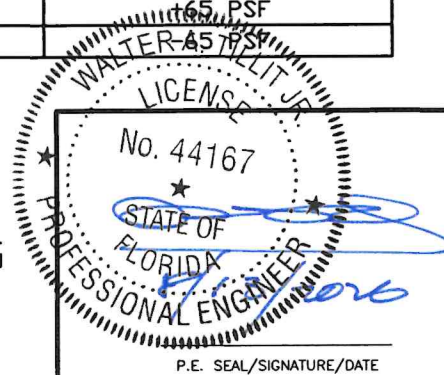
MAX. A.S.D. DESIGN PRESSURE RATINGS (OUTSWING SINGLE DOOR W/ TWO SURFACE BOLTS & DOUBLE DOORS W/ FOUR SURFACE BOLTS)	
POSITIVE	+65 PSF
NEGATIVE	-65 PSF

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

ASSEMBLY ELEVATIONS # 1, 2 & 3

SEE SECTIONS ON SHEETS 5, 6 & 7

- SEE SHEET 3A FOR MAXIMUM A.S.D. DESIGN PRESSURE RATING
SCHEDULE FOR ASSEMBLY COMBINATIONS.

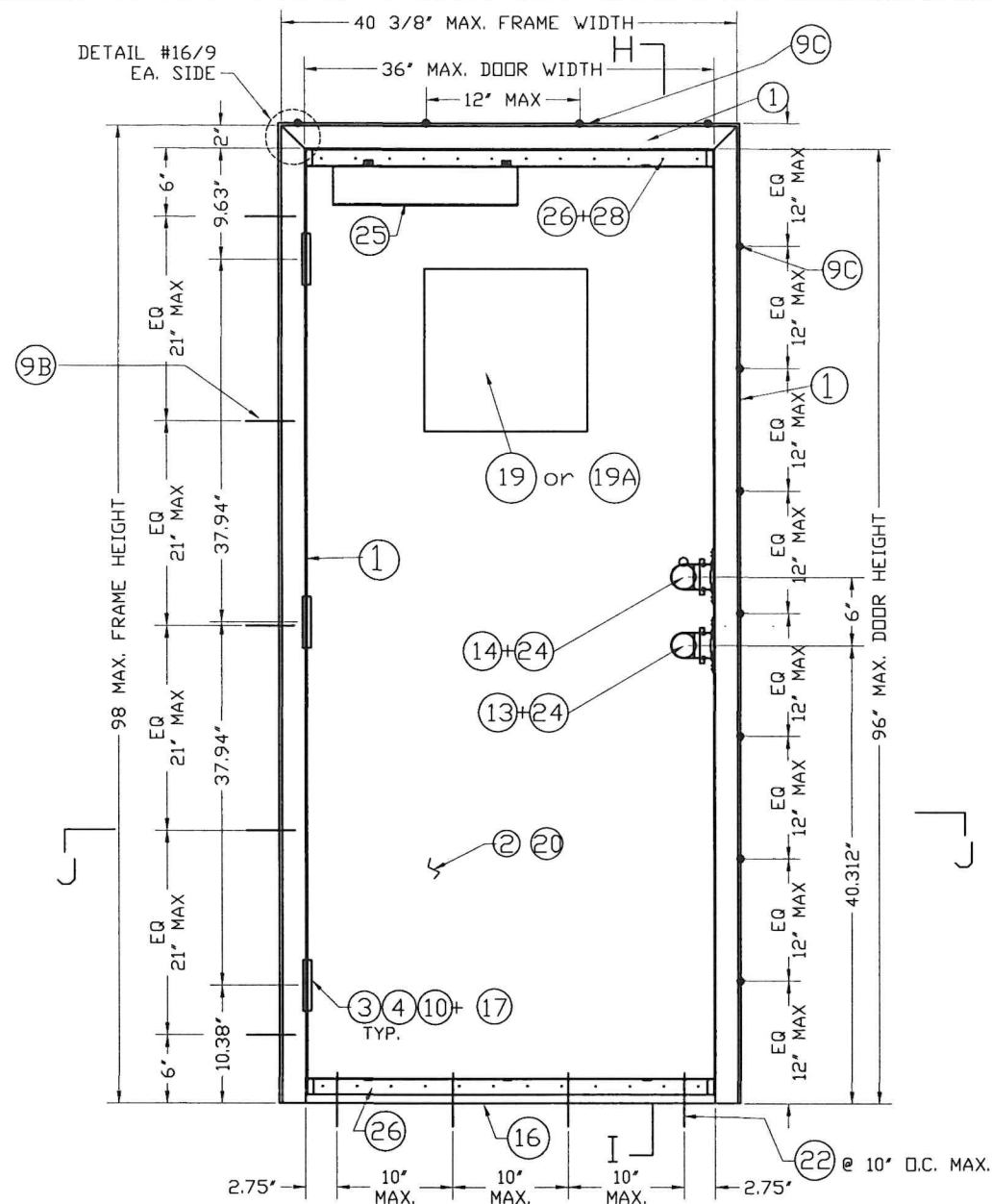


©2026 TILTECO, INC.

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

DOUBLE & SINGLE SERIES LS18 OUTSWING COMMERCIAL GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "AS" 18 GAGE GALVANNEAL OR STAINLESS STEEL FRAME FLUSH, EMBOSSED & GLAZED ASSEMBLIES - L.M.					DRAWN BY: W.H.	
DAYBAR INDUSTRIES LTD					08/07/2026 DATE	
50 WEST DRIVE, BRAMPTON, ON CANADA, L6T 2J4 TEL: 905 625-8000 FAX: 905 625-4204					26-248 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	
1	OLD 23-174	08/07/2026	3			
2			4			



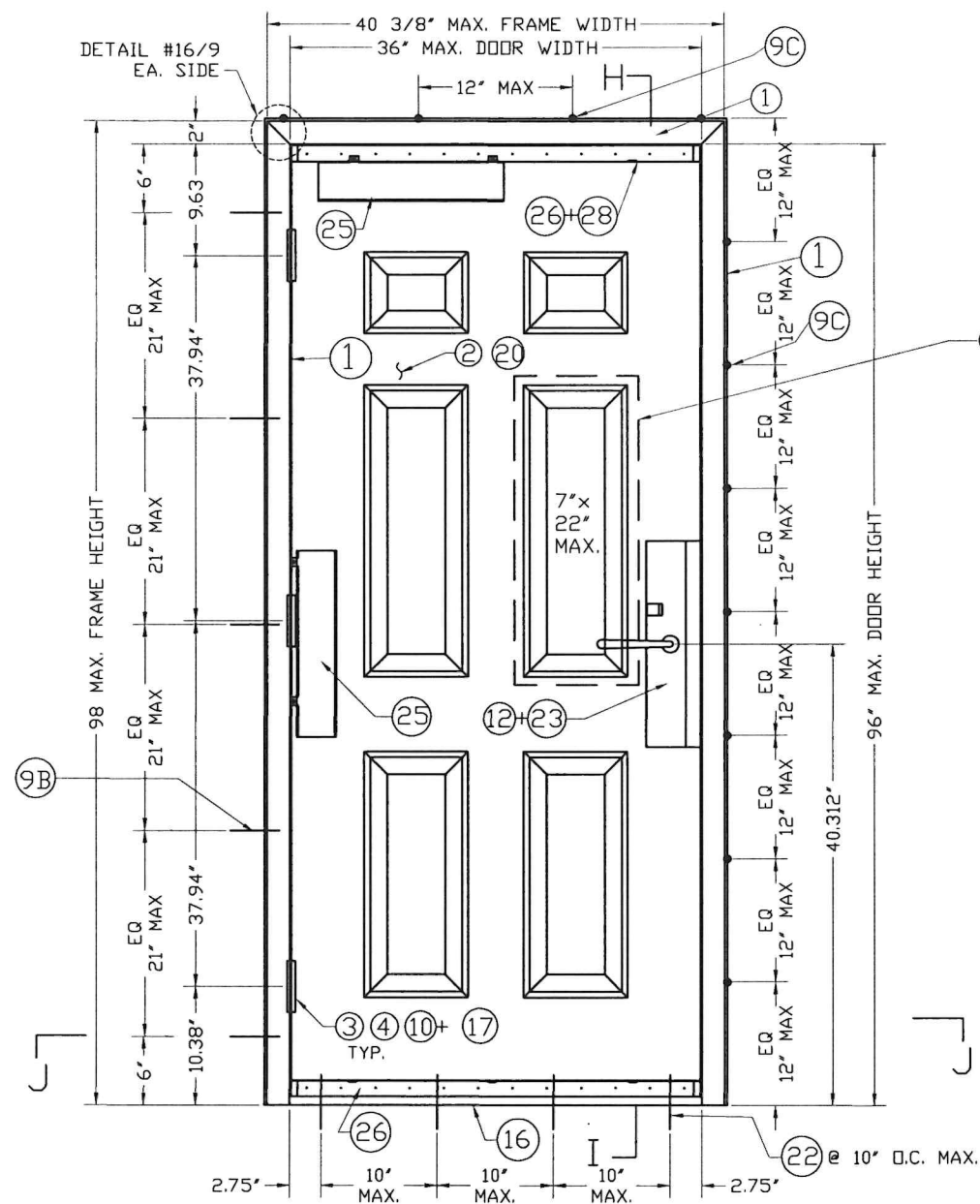
ASSEMBLY #7 * EXTERIOR ELEVATION SINGLE DOOR OUTSWING WALL CONDITION - WELDED HOT ROLLED 3/8" MIN. THICK STRUCTURAL STEEL CHANNEL FRAME JAMB AND HEAD. ANCHORS: 3/8"x3 1/2" FLAT HEAD MACHINE SCREW, LOCK WASHER & NUT W/ EMA (DET #23A), OR FRAME (1) WELDED @ 12" O.C. AT JAMB AND HEAD INCLUDING TOP & BOTTOM OF JAMB (DET #23B). SCH-D SERIES CYLINDRICAL LOCK (13) + SCH-B SERIES DEAD BOLT (14) 4 1/2" HAGER MODEL # BB1279 STEEL BUTT HINGE (10) DOOR CORE (20) EXPANDED POLYSTYRENE OR HONEYCOMB PAPER OR 1.5 PCF POLYURETHANE OR 12.5 PCF MINERAL BOARD. FULL FLUSH VISION LITE MODEL VLF-EZ-IG (19A) BY AIR LOUVERS, INC. W/ 1/2" LEXAN GLAZING SET IN DOW CORNING #995 STRUCTURAL SILICONE W/ 12" x 12" DOOR CUT-OUT NARROWLITE (10"x10" D.L.O.), AND DAYBAR VISION LITE (19) WITH 3/8" LEXAN GLAZING SET IN DOW CORNING #995 STRUCTURAL SILICONE, W/ 11 1/8" x 11 1/8" DOOR CUT-OUT NARROWLITE (9 3/4"x9 3/4" D.L.O.).

MAX. A.S.D. DESIGN PRESSURE RATINGS (OUTSWING SINGLE DOORS WITHOUT SURFACE BOLTS)	
POSITIVE	+65 PSF
NEGATIVE	-53.3 PSF

ASSEMBLY ELEVATIONS #7, 7-EMB

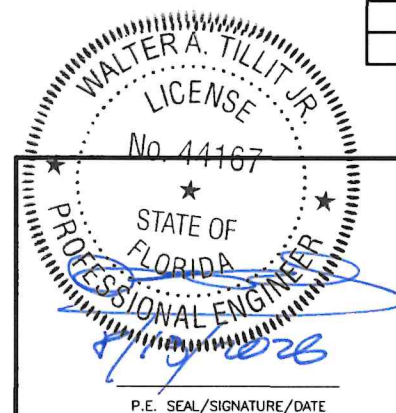
SEE SECTIONS ON SHEET 7

- SEE SHEET 3A FOR MAXIMUM A.S.D. DESIGN PRESSURE RATING SCHEDULE FOR ASSEMBLY COMBINATIONS.



ASSEMBLY #7-EMB EXTERIOR ELEVATION SINGLE DOOR OUTSWING WALL CONDITION - WELDED HOT ROLLED STRUCTURAL STEEL CHANNEL FRAME JAMB AND HEAD. ANCHORS: 3/8"x3 1/2" FLAT HEAD MACHINE SCREW, LOCK WASHER & NUT W/ EMA (DET #23A), OR FRAME (1) WELDED @ 12" O.C. AT JAMB AND HEAD INCLUDING TOP & BOTTOM OF JAMB (DET #23B). SCH-L SERIES #86 MORTISE LOCK (12) W/ DEAD BOLT INCLUDED. 4 1/2" HAGER MODEL # BB1279 STEEL BUTT HINGE (10) DOOR CORE (20) EXPANDED POLYSTYRENE OR HONEYCOMB PAPER OR 1.5 PCF POLYURETHANE OR 12.5 PCF MINERAL BOARD. FULL EMBOSSED

MAX. A.S.D. DESIGN PRESSURE RATINGS (OUTSWING SINGLE DOORS WITHOUT SURFACE BOLTS)	
POSITIVE	+65 PSF
NEGATIVE	-53.3 PSF



©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

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

DOUBLE & SINGLE SERIES LS18 OUTSWING COMMERCIAL GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "AS" 16 GAGE GALVANNEAL OR STAINLESS STEEL FRAME FLUSH, EMBOSSED & GLAZED ASSEMBLIES - L.M.

DAYBAR INDUSTRIES LTD

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

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-174	08/07/2026	3		
2			4		

DRAWN BY:
W.H.

08/07/2026
DATE

26-248
DRAWING No

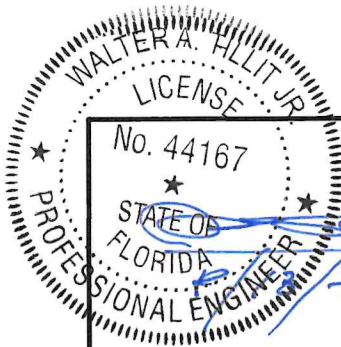
SHEET 3 OF 19

MAX. A.S.D. DESIGN PRESSURE RATING (psf.) SCHEDULE FOR INSTALLATIONS COMBINING ASSEMBLIES #1 THRU #7-EMB BETWEEN EACH OTHER FOR A GIVEN ANCHOR JAMB TYPE *

ITEM (SEE SHEET 19)	ANCHOR SPECIFICATIONS AT JAMBS *	ASSEMBLY #1 (SEE SHEET 2)	ASSEMBLY #2 (SEE SHEET 2)	ASSEMBLY #3 (SEE SHEET 2)	ASSEMBLY #7 (SEE SHEET 3)	ASSEMBLY #7-EMB (SEE SHEET 3)
⑥	0.157" DIA.x9 1/2" LONG WIRE ANCHOR (SEE DETAIL 21/17)	+70, -65	+65, -65	+65, -65	+65, -53.3	+65, -53.3
⑦	2 PIECE COMBINATION STUD ANCHOR (SEE DETAIL 20/17)	+65, -65	+65, -65	+65, -65	+65, -53.3	+65, -53.3
⑧	EXISTING MASONRY ANCHOR & E.M.A. (SEE DETAIL 22/17)	+65, -65	+65, -65	+65, -65	+65, -53.3	+65, -53.3
⑨	EXISTING WOOD BUCK ANCHOR W/WOOD SCREW LAG BOLT & E.M.A. (SEE DETAIL 22A/17)	+65, -65	+65, -65	+65, -65	+65, -53.3	+65, -53.3
⑨A	EXISTING WOOD BUCK ANCHOR W/ STEEL CARRIAGE BOLT & E.M.A. (SEE DETAIL 22B/17)	+65, -65	+65, -65	+65, -65	+65, -53.3	+65, -53.3
⑨B	CHANNEL IRON THROUGH BOLTING W/3/8" x 3 1/2" STEEL FLAT HEAD MACHINE SCREW & E.M.A. (SEE DETAIL 23A/17)	+65, -53.3	+65, -53.3	+65, -53.3	+65, -53.3	+65, -53.3
⑨C	CHANNEL IRON W/3/8" STITCH WELD (SEE DETAIL 23B/17)	+65, -53.3	+65, -53.3	+65, -53.3	+65, -53.3	+65, -53.3

* NOTES ON FRAME HEAD REQUIREMENTS

1. FOR SINGLE & DOUBLE DOORS INSTALLED AT WOOD FRAME BUILDINGS, DOOR HEADS SHALL BE CONTINUOUSLY RETAINED BY EXISTING BUILDINGS WOOD HEADER FOLLOWING DETAILS AS PER SECTION E, SHEET 7.
2. FOR SINGLE & DOUBLE DOORS INSTALLED AT STEEL FRAME BUILDINGS, DOOR HEADS SHALL BE CONTINUOUSLY WELDED TO EXISTING BUILDINGS STEEL FRAME HEADER FOLLOWING DETAILS AS PER SECTION H, SHEET 7 & DETAIL 23B ON SHEET 17.
3. FOR SINGLE & DOUBLE DOORS INSTALLED AT CONCRETE /MASONRY BUILDINGS, DOOR HEADS NEED NOT BE ATTACHED TO EXISTING BUILDINGS HEADER. APPLICABLE TO SECTIONS D & F, SHEET 7.



P.E. SEAL/SIGNATURE/DATE

©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

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

DOUBLE & SINGLE SERIES LS18 OUTSWING COMMERCIAL GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "AS" 16 GAGE GALVANNEAL OR STAINLESS STEEL FRAME FLUSH, EMBOSSED & GLAZED ASSEMBLIES - L.M.

DAYBAR INDUSTRIES LTD

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

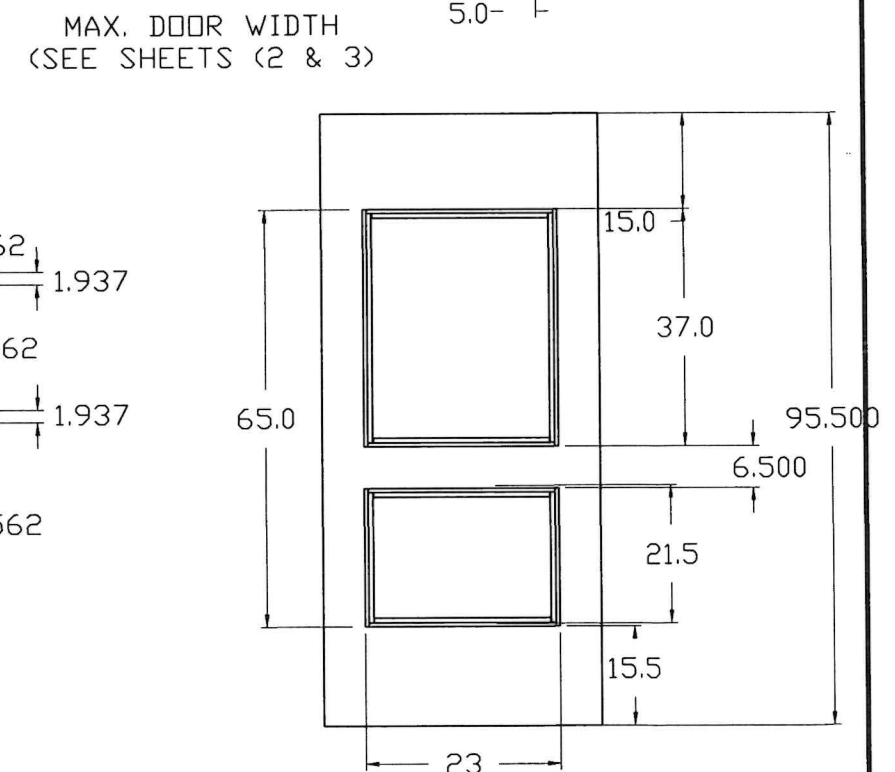
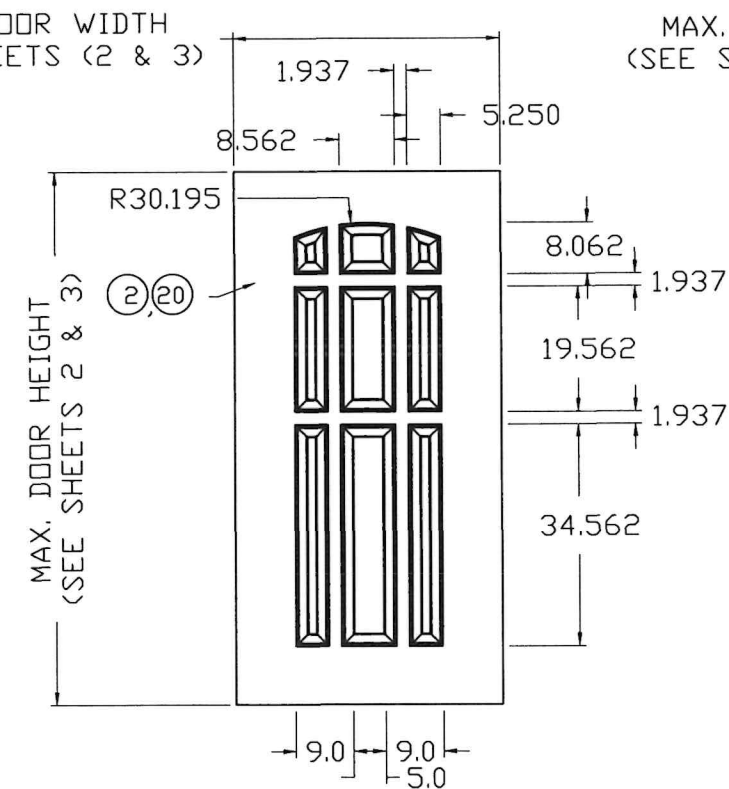
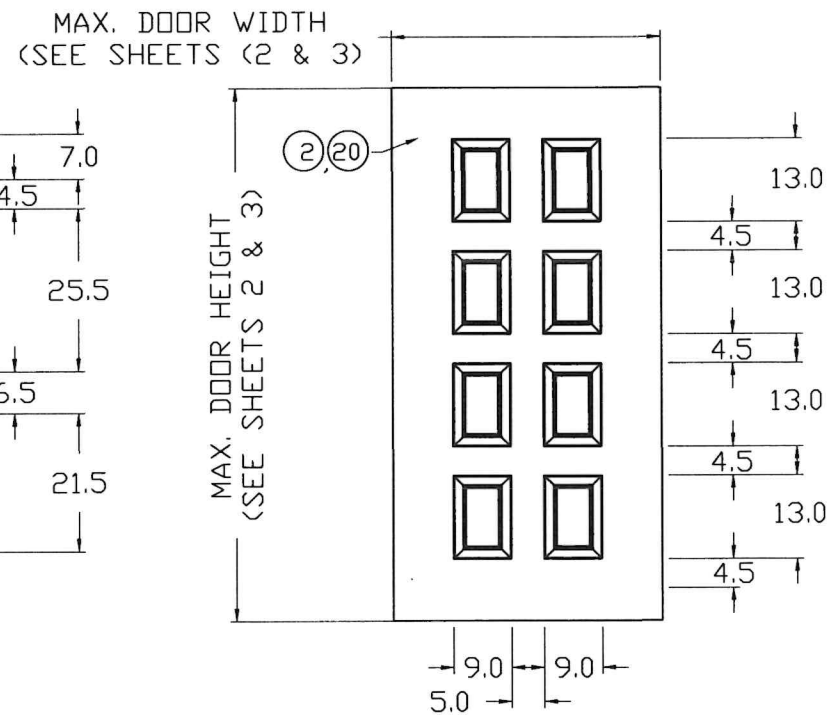
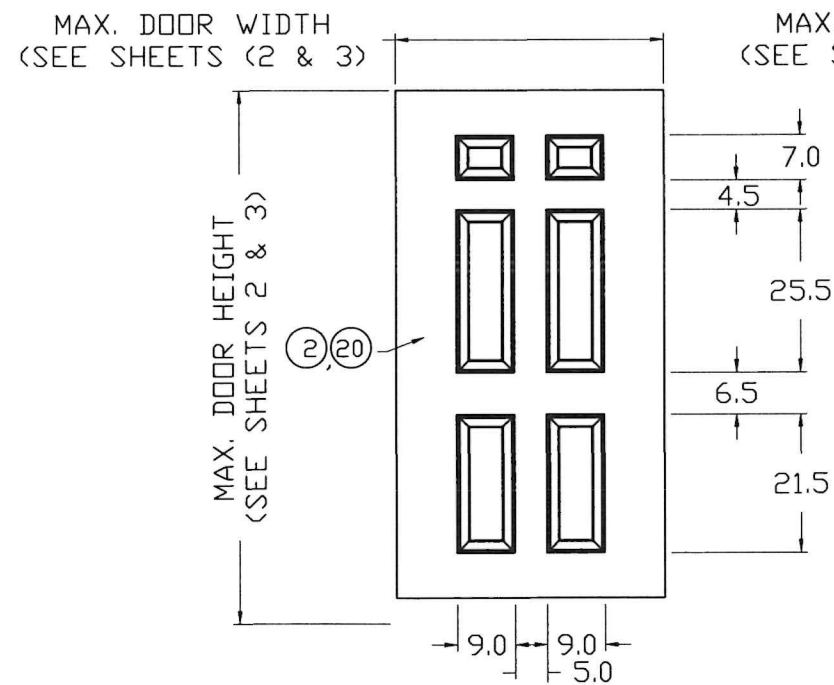
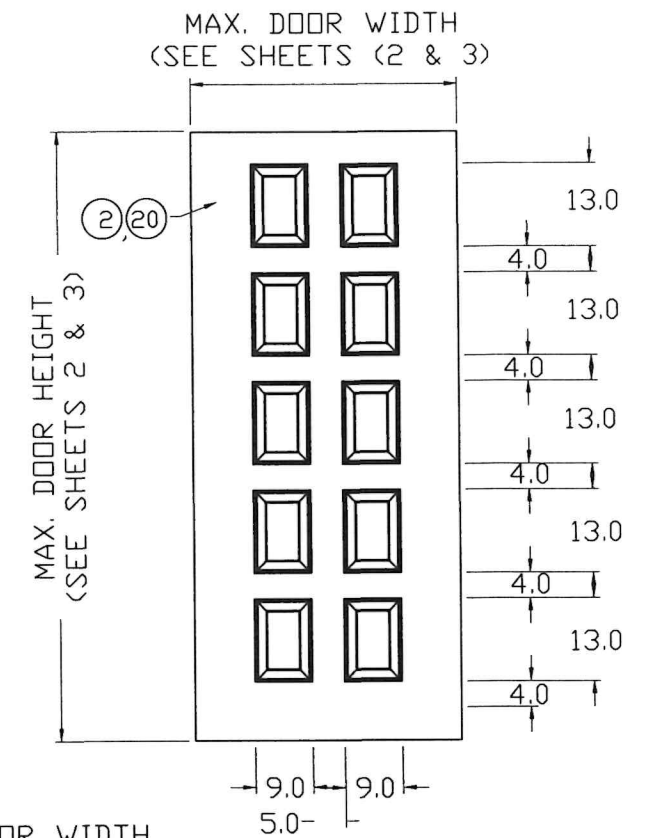
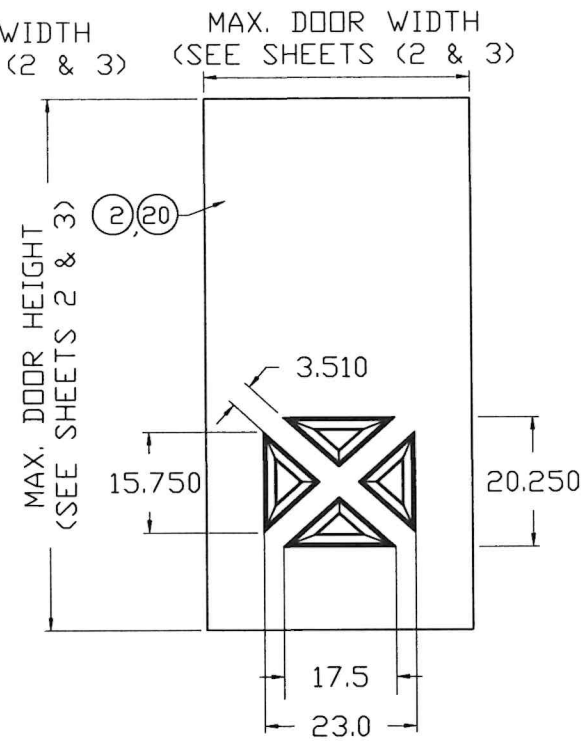
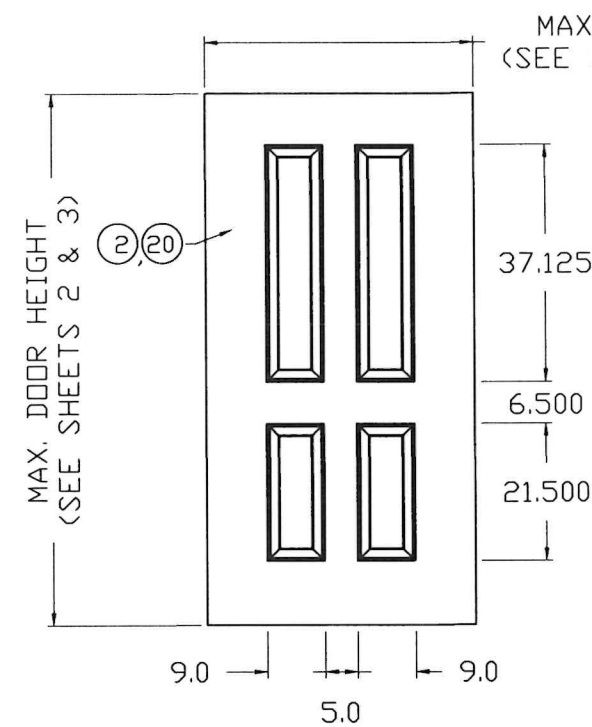
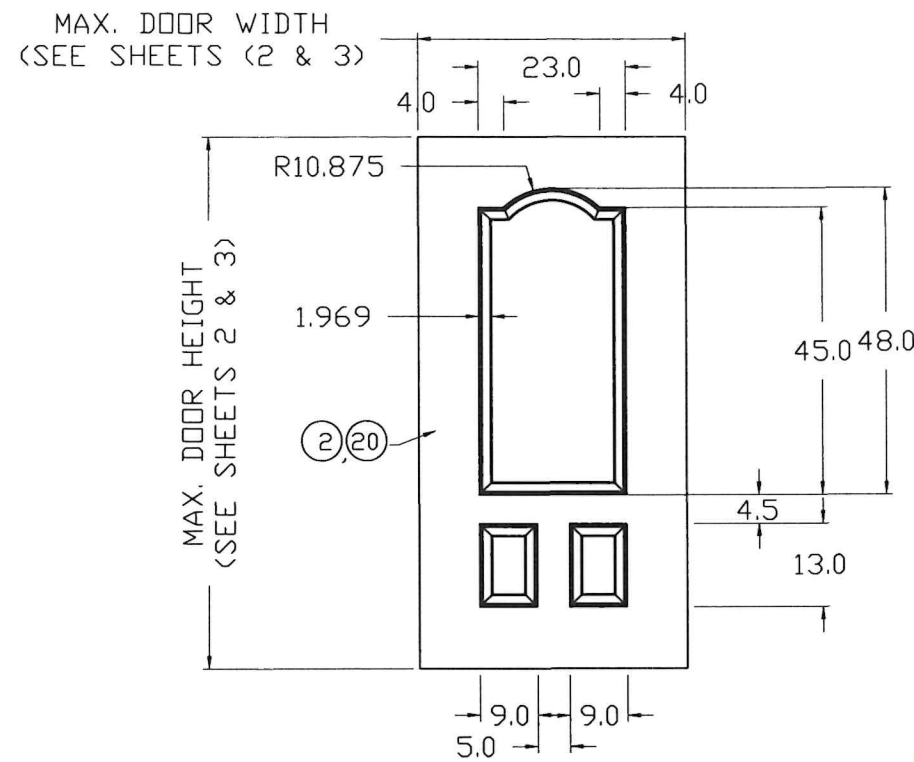
DRAWN BY:
W.H.

08/07/2026
DATE

26-248
DRAWING No

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-174	08/07/2026	3		
2			4		

SHEET 3A OF 19



OPTIONAL EMBOSSED DOOR SLAB SHEET CONFIGURATIONS

NOTE:
EMBOSSED DOORS PERMITTED IN
SINGLES & PAIRS LIMITED TO DESIGN
PRESSURES NOTED FOR EACH ASSEMBLY



©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

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

DOUBLE & SINGLE SERIES LS18 OUTSWING COMMERCIAL
GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "AS"
16 GAGE GALVANNEAL OR STAINLESS STEEL FRAME
FLUSH, EMBOSSED & GLAZED ASSEMBLIES - L.M.

DAYBAR INDUSTRIES LTD

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

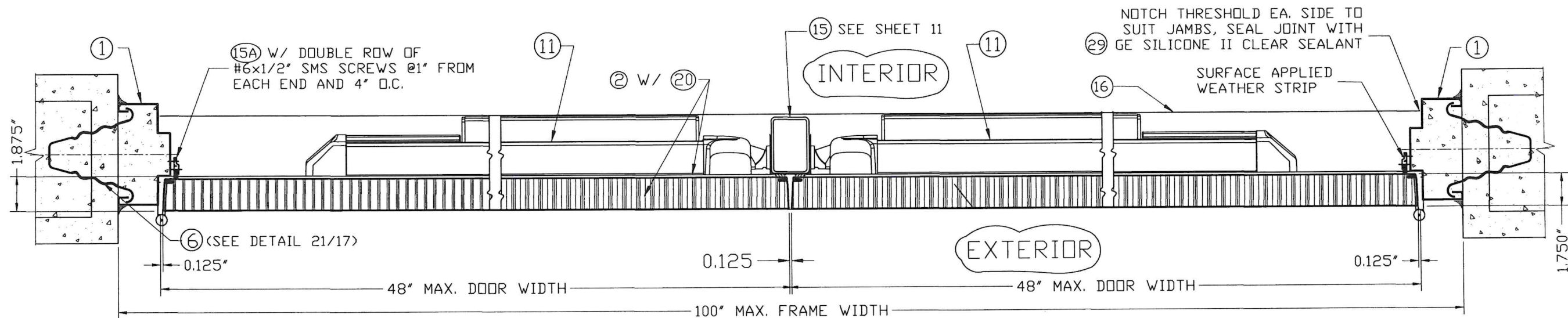
DRAWN BY:
W.H.

08/07/2026
DATE

26-248
DRAWING No

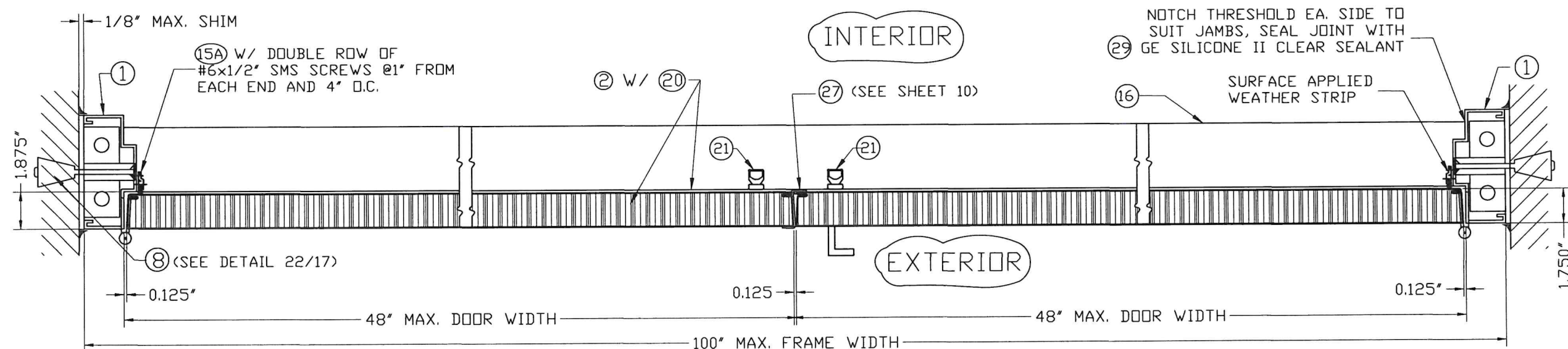
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-174	08/07/2026	3		
2			4		

SHEET 4 OF 19



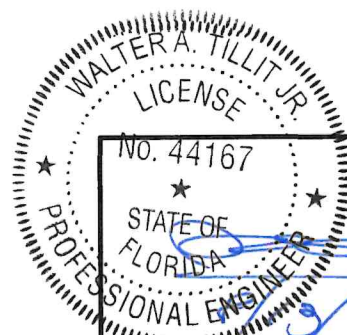
SECTION A-A

SCALE: 3/16"=1"



SECTION B-B

SCALE: 3/16"=1"



P.E. SEAL/SIGNATURE/DATE

©2026 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

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

DOUBLE & SINGLE SERIES LS18 OUTSWING COMMERCIAL
GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "AS"
16 GAGE GALVANNEAL OR STAINLESS STEEL FRAME
FLUSH, EMBOSSED & GLAZED ASSEMBLIES - L.M.

DAYBAR INDUSTRIES LTD

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

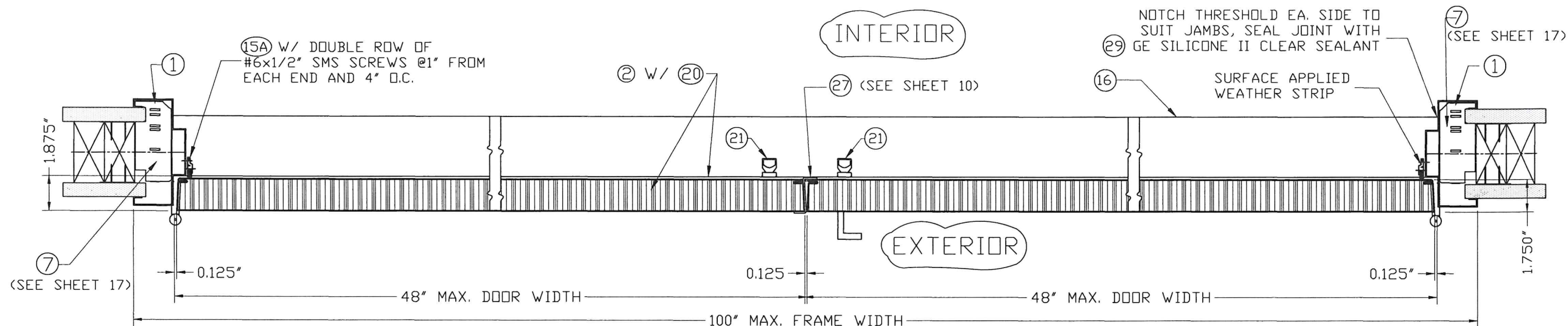
DRAWN BY:
W.H.

08/07/2026
DATE

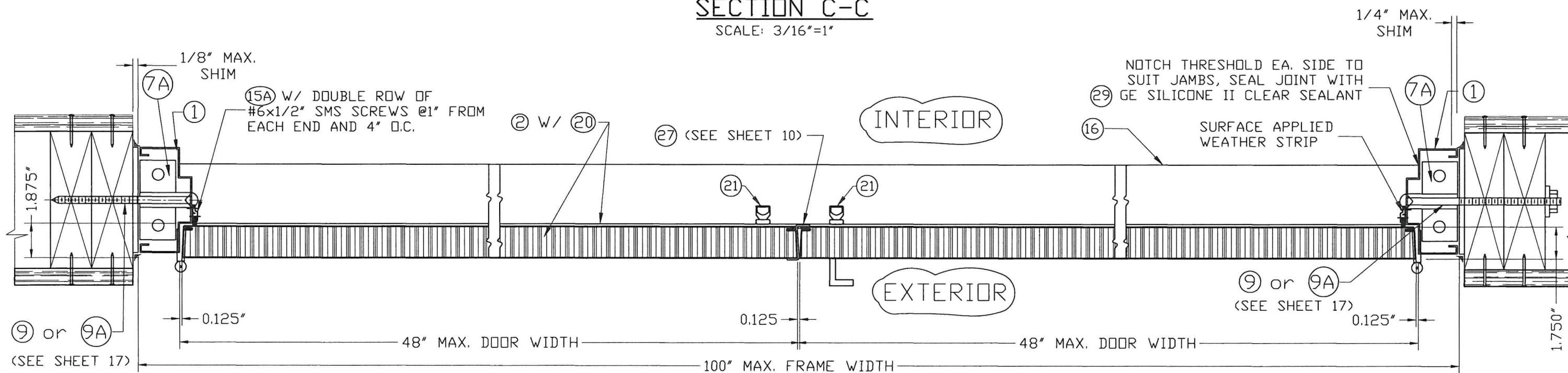
26-248
DRAWING No

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-174	08/07/2026	3		
2			4		

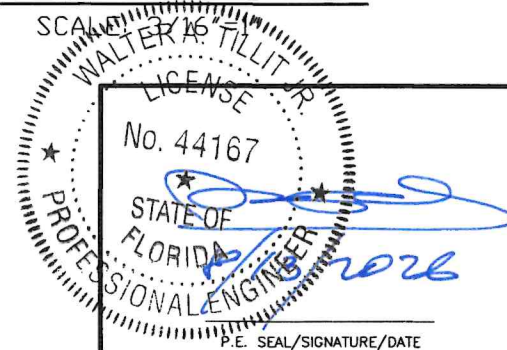
SHEET 5 OF 19



SECTION C-C
SCALE: 3/16"=1"



SECTION C'-C'
SCALE: 3/16"=1"



©2026 TILTECO, INC.

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

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

DOUBLE & SINGLE SERIES LS18 OUTSWING COMMERCIAL GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "AS" 16 GAGE GALVANNEAL OR STAINLESS STEEL FRAME FLUSH, EMBOSSED & GLAZED ASSEMBLIES - L.M.

DAYBAR INDUSTRIES LTD

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

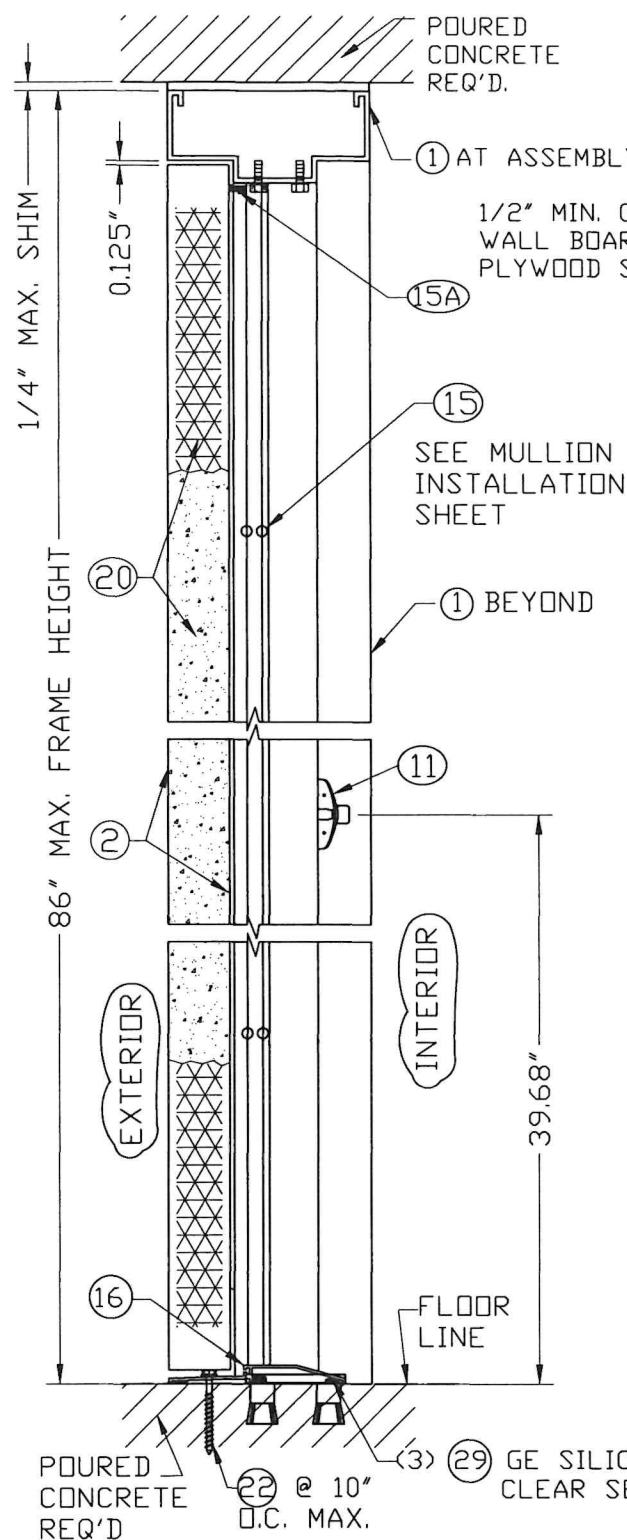
DRAWN BY:
W.H.

08/07/2026
DATE

26-248
DRAWING No

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-174	08/07/2026	3		
2			4		

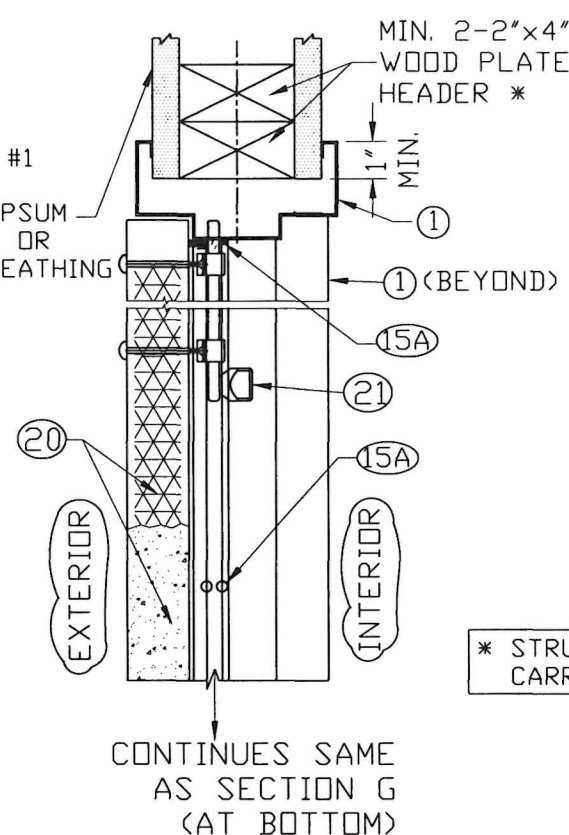
SHEET 6 OF 19



SECTION D-D

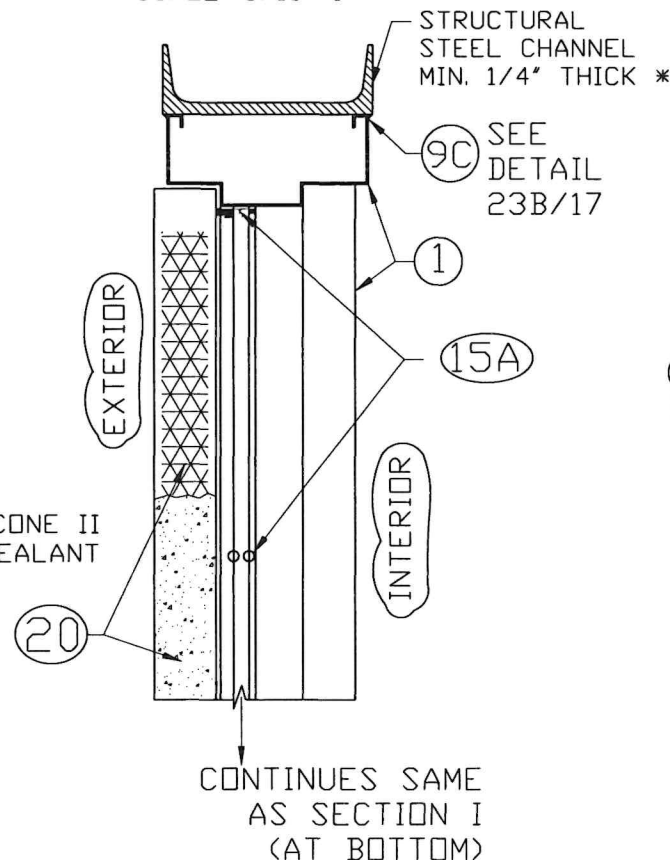
SINGLE DOOR DOES NOT NEED MULLION.
LATCH ONTO REINFORCED JAMB

SCALE: 3/16"=1"



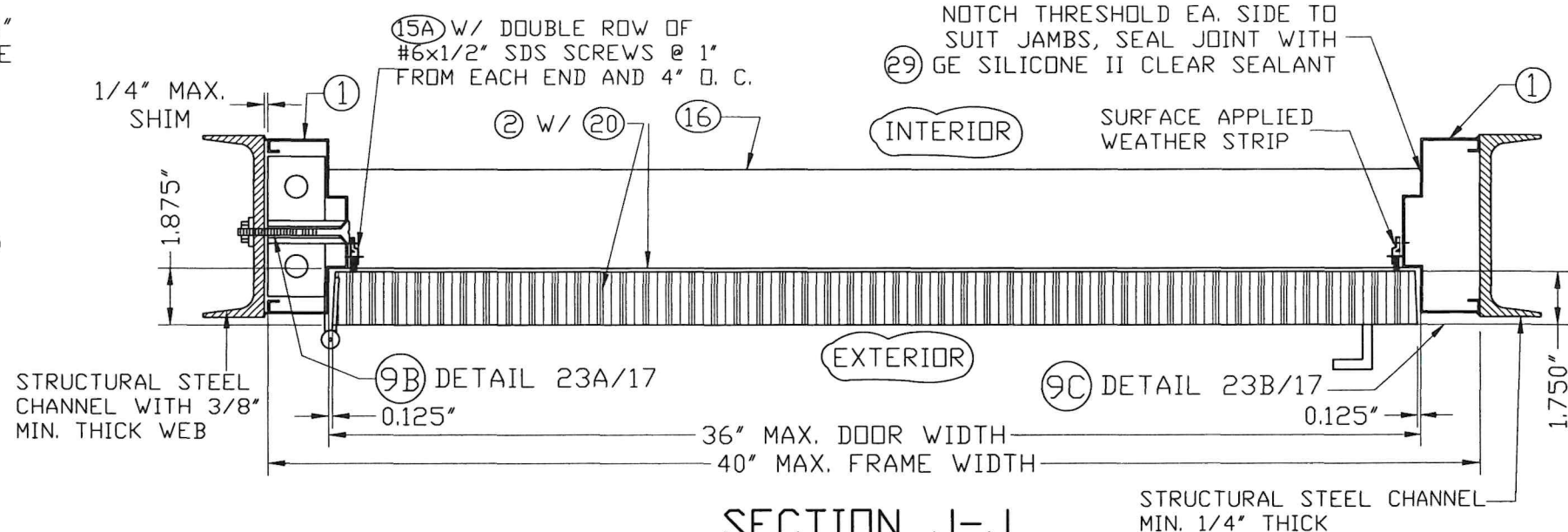
SECTION E

SCALE: 3/16"=1"



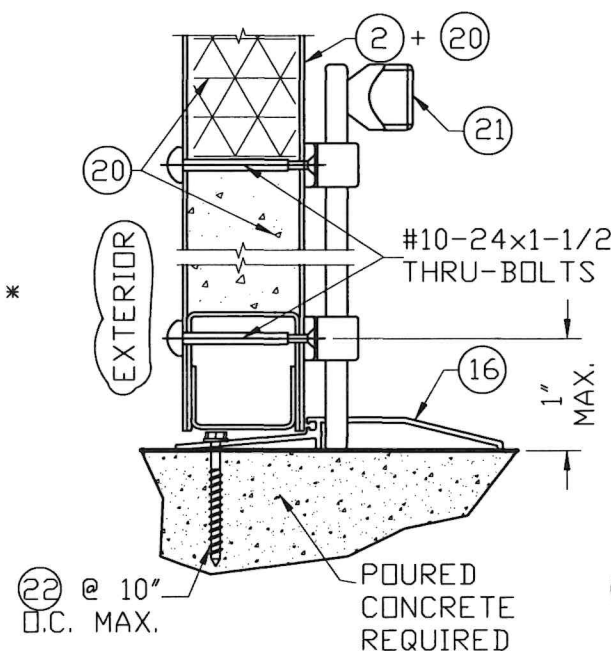
SECTION H

SCALE: 3/16"=1"

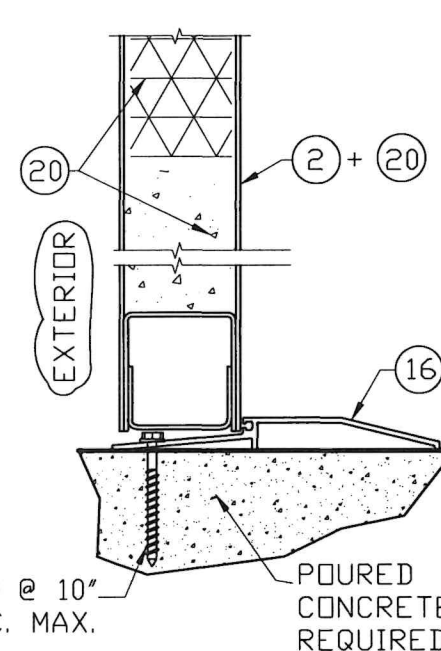


SECTION J-J

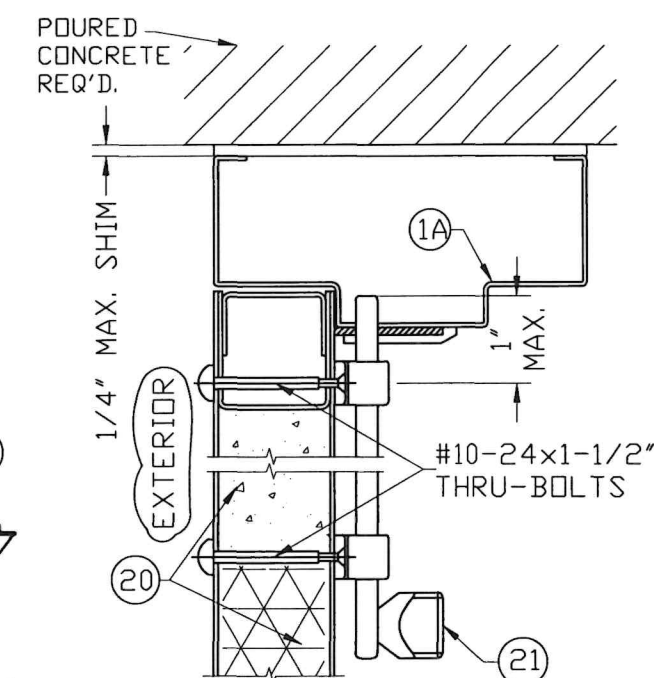
SCALE: 3/16"=1"



SECTION G



SECTION I



SECTION F



©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

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

DOUBLE & SINGLE SERIES LS18 OUTSWING COMMERCIAL
GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "AS"
16 GAGE GALVANNEAL OR STAINLESS STEEL FRAME
FLUSH, EMBOSSED & GLAZED ASSEMBLIES - L.M.

DAYBAR INDUSTRIES LTD

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

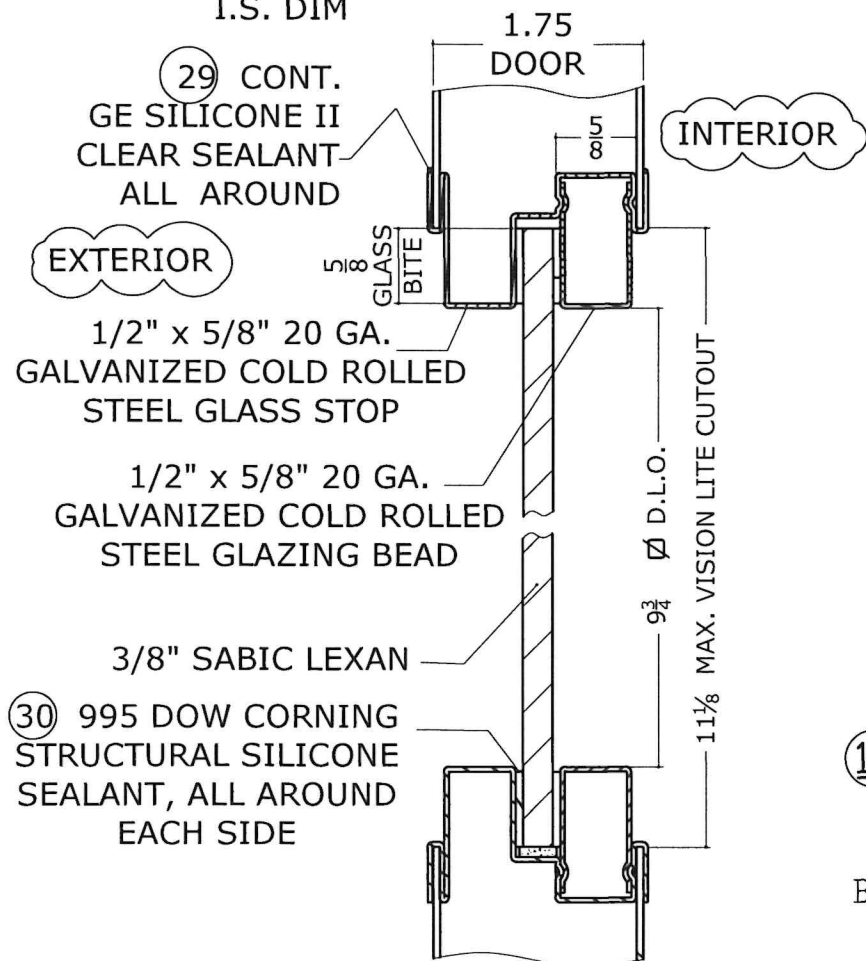
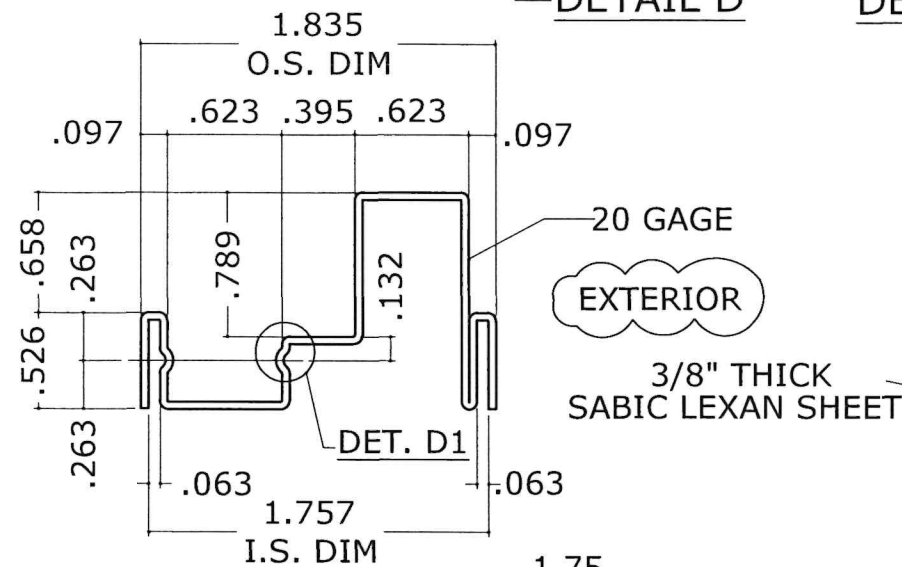
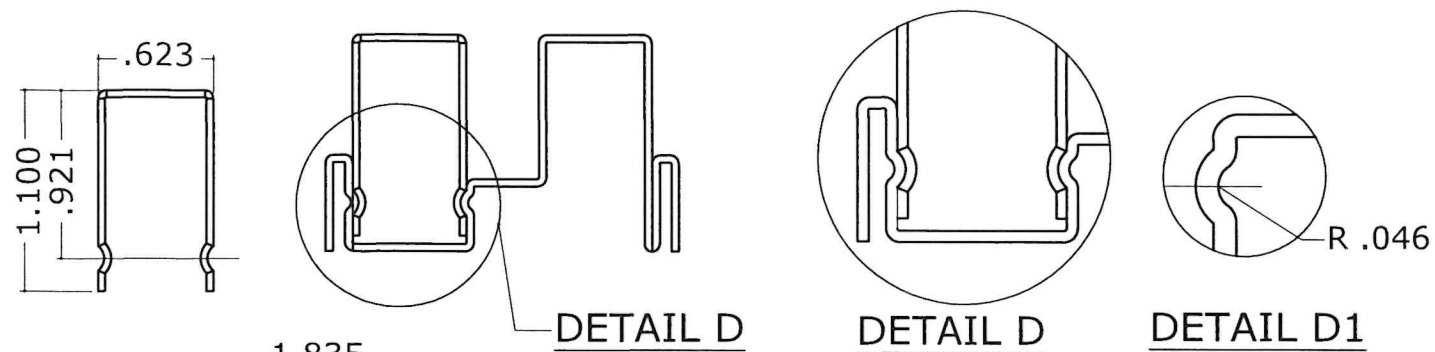
DRAWN BY:
W.H.

08/07/2026
DATE

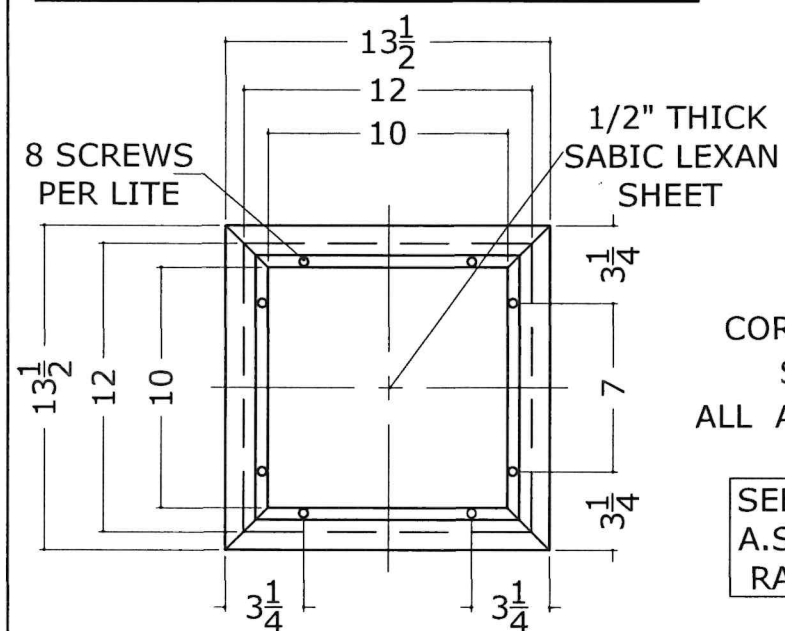
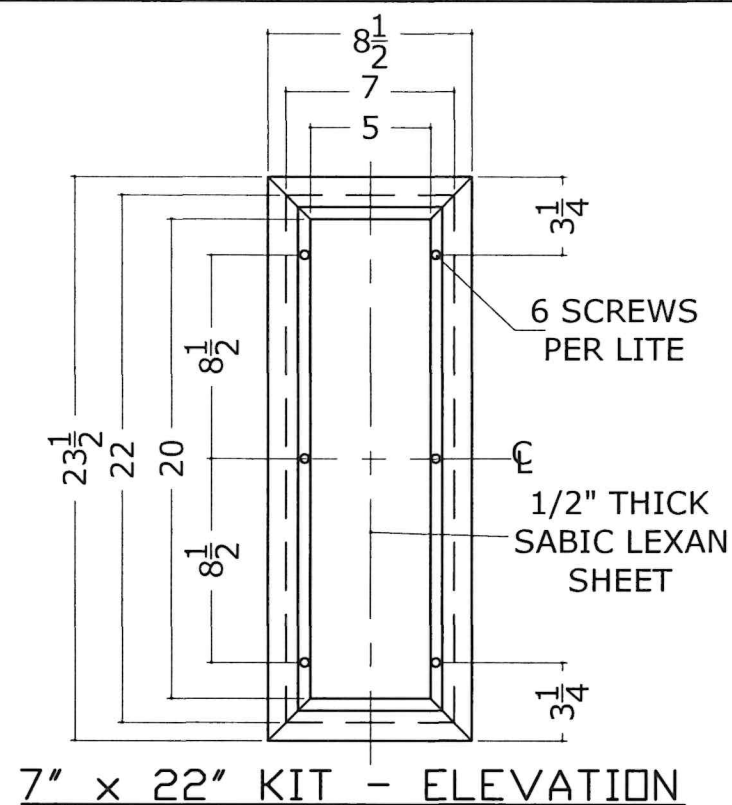
26-248
DRAWING No

SHEET 7 OF 19

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-174	08/07/2026	3		
2			4		



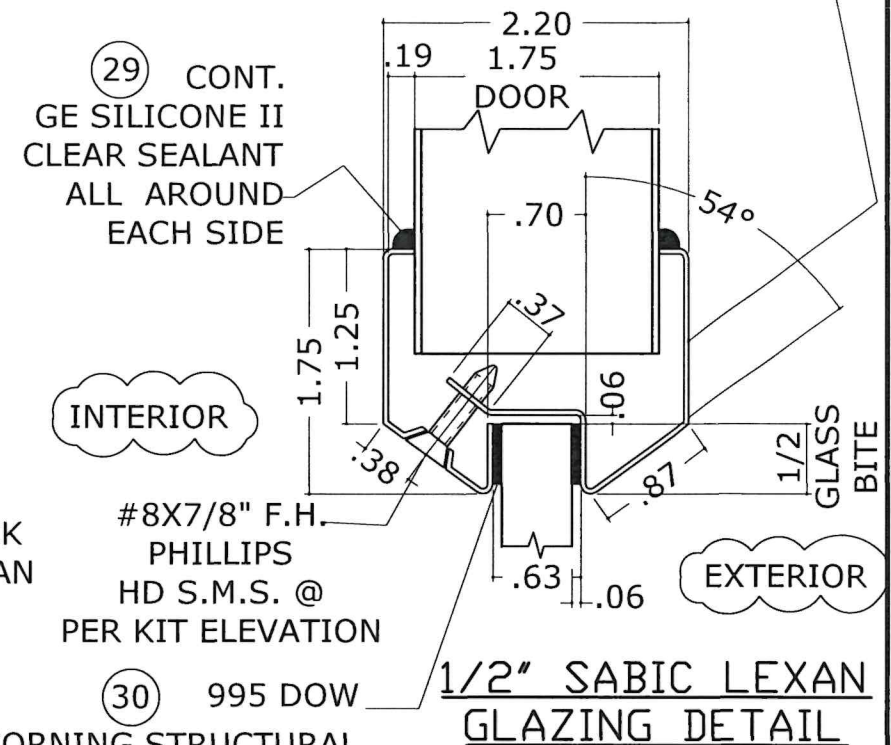
3/8" GE LEXAN GLAZING DETAIL



19A VLF-EZ-IG VISION LITES
1/2" LEXAN GLAZED

MANUFACTURED BY AIR LOUVERS, INC.

MATERIAL SPECIFICATIONS:
20 GAGE CRS FRAME W/ A MINERAL BRONZE BAKED ON POWDER COAT.



FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

DOUBLE & SINGLE SERIES LS18 OUTSWING COMMERCIAL GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "AS" 18 GAGE GALVANNEAL OR STAINLESS STEEL FRAME FLUSH, EMBOSSED & GLAZED ASSEMBLIES - L.M.

DAYBAR INDUSTRIES LTD

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

DRAWN BY:
W.H.

08/07/2026
DATE

26-248
DRAWING No

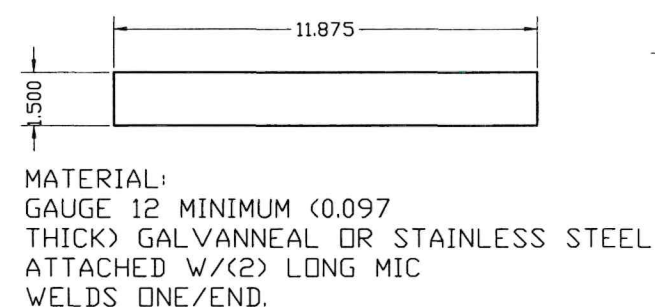
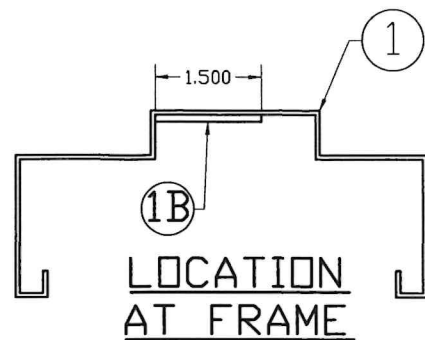
SHEET 8 OF 19



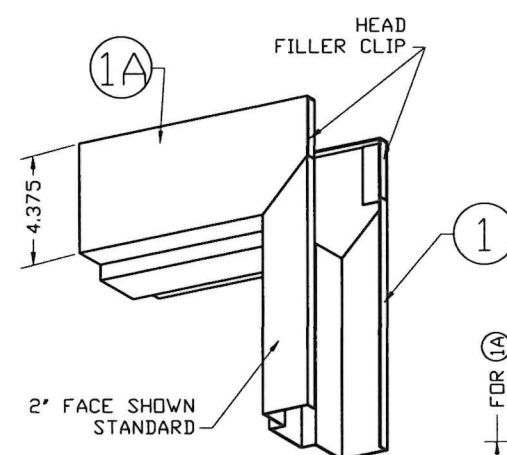
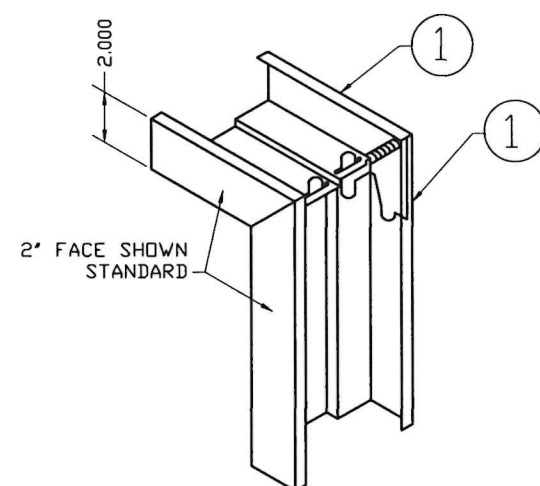
©2026 TILTECO, INC.

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

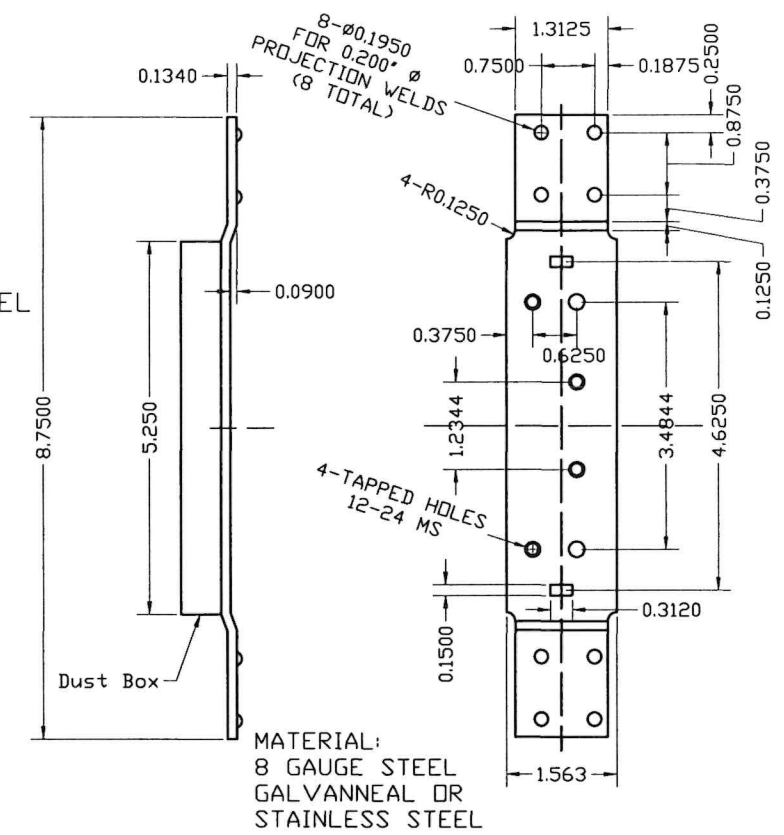


1B SURFACE STRIKE REINFORCING

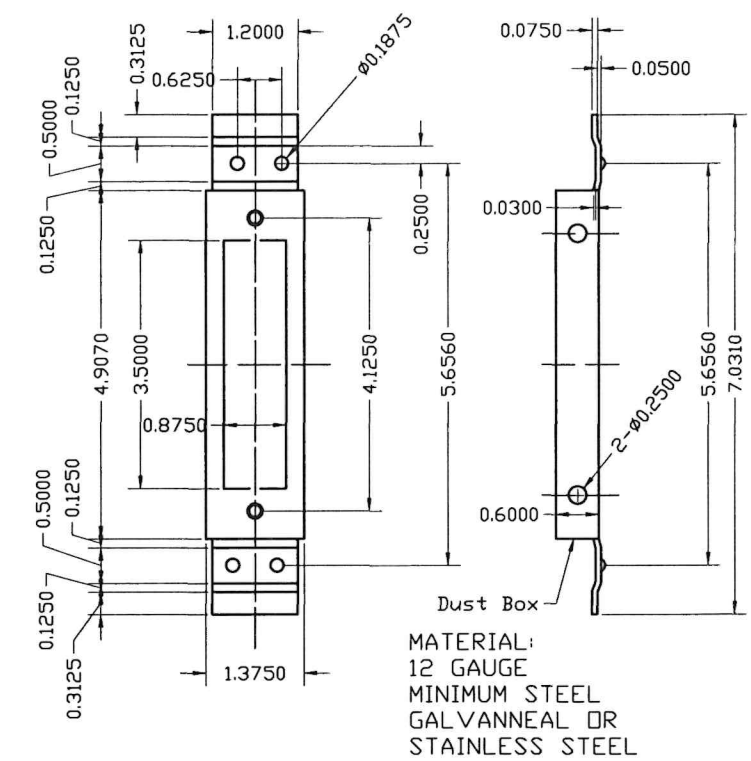


1. DIE MITERED CORNER CONT. WELDED INSIDE FACES & AT RETURNS
2. CAULK COMPLETE INSIDE CORNER WITH (29) GE SILICONE II

DETAIL 16
TYPICAL WELDED CORNER

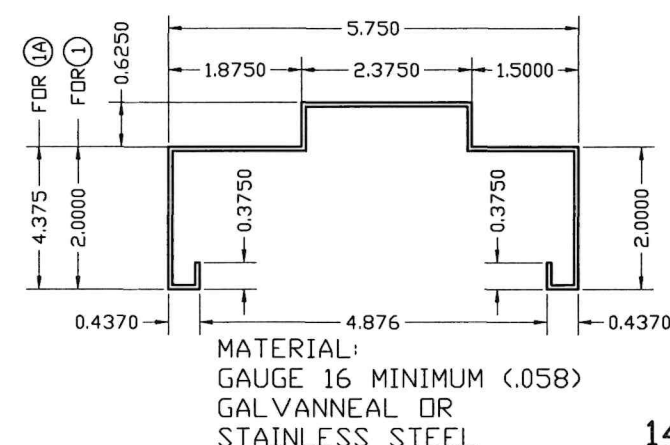


3, 4 4 1/2" FRAME DOOR HINGE REINFORCING DETAIL

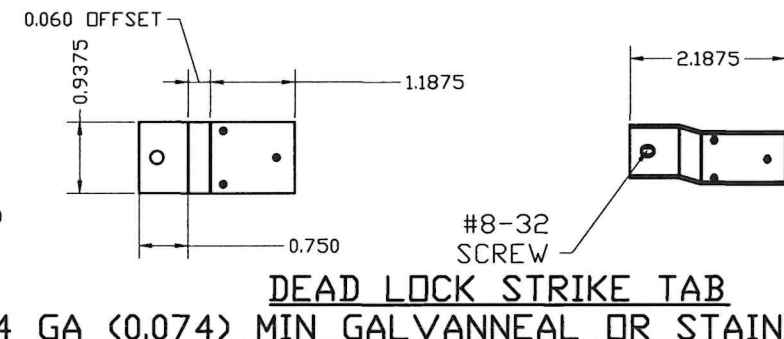


5 4 7/8" STRIKE REINFORCEMENT FOR FRAME DETAIL

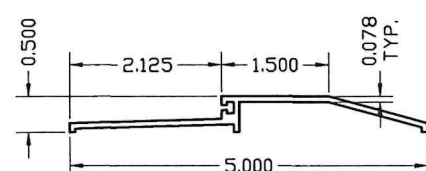
ATTACHED W/ (4) 3/16" Ø PROJECTION WELDS.



1 TYPICAL JAMB & HEAD SECTION



1A OPTIONAL HEAD SECTION



16 EXTRUDED ALUMINUM THRESHOLD NGP #950NA

DEAD LOCK STRIKE TAB
14 GA (.074) MIN GALVANNEAL OR STAINLESS STEEL

ATTACHED TO STRIKE JAMB W/ (3) 1/8" Ø PROJECTION WELDS.

FRAME SECTIONS AND REINFORCING DETAILS



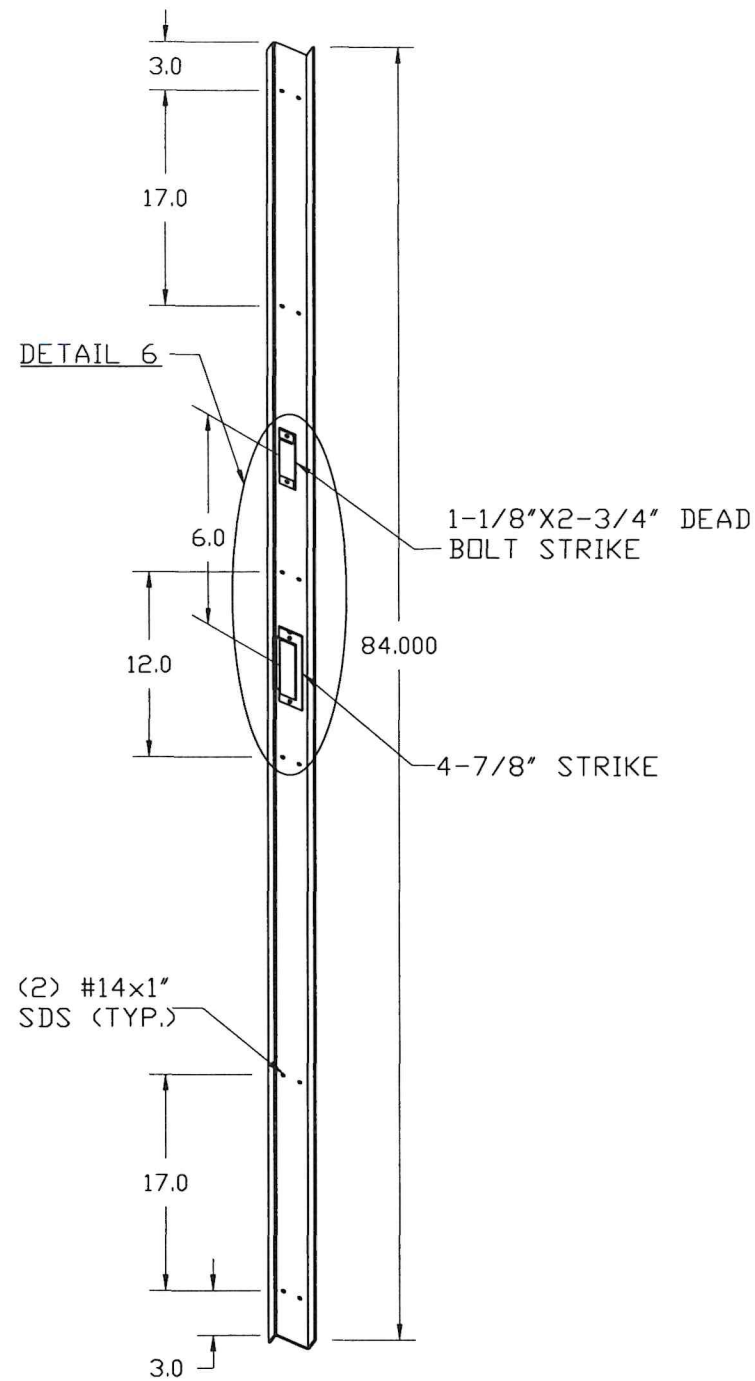
©2026 TILTECO, INC.

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

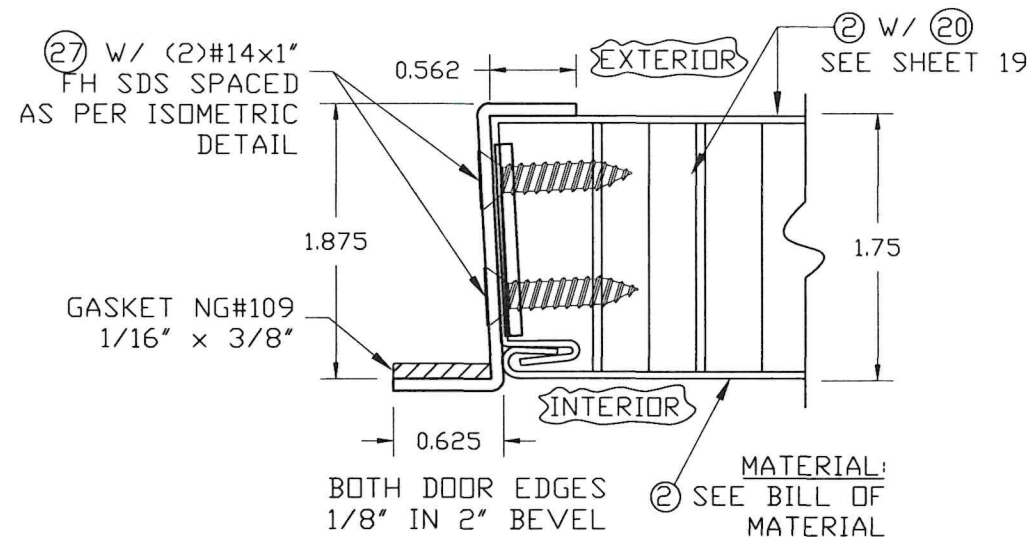
FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

DOUBLE & SINGLE SERIES LS18 OUTSWING COMMERCIAL GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "AS" 16 GAGE GALVANNEAL OR STAINLESS STEEL FRAME FLUSH, EMBOSSED & GLAZED ASSEMBLIES - L.M.				DRAWN BY: W.H.	
DAYBAR INDUSTRIES LTD 50 WEST DRIVE, BRAMPTON, ON CANADA, L6T 2J4 TEL: 905 625-8000 FAX: 905 625-4204				08/07/2026 DATE	
				26-248 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-174	08/07/2026	3		
2			4		
				SHEET 9 OF 19	

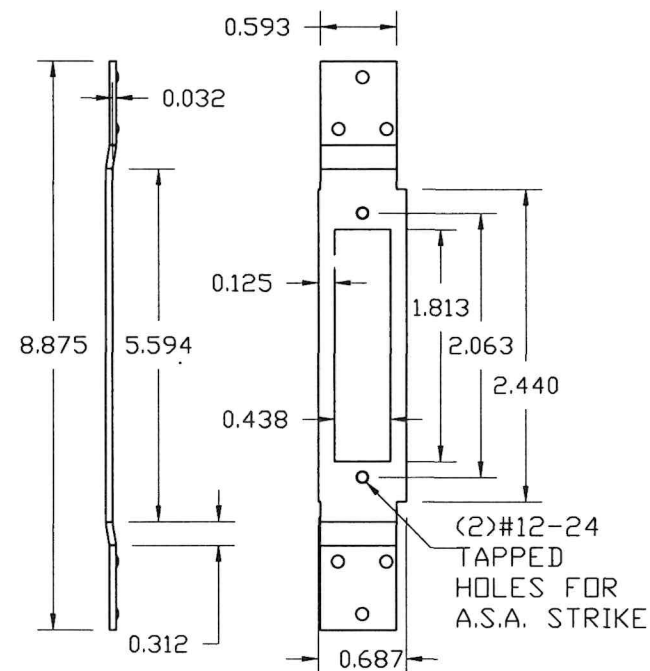


(27) "Z" ASTRAGAL ISOMETRIC DETAIL

MATERIAL:
0.075" THICK
GALVANNEAL STEEL
OR STAINLESS
STEEL

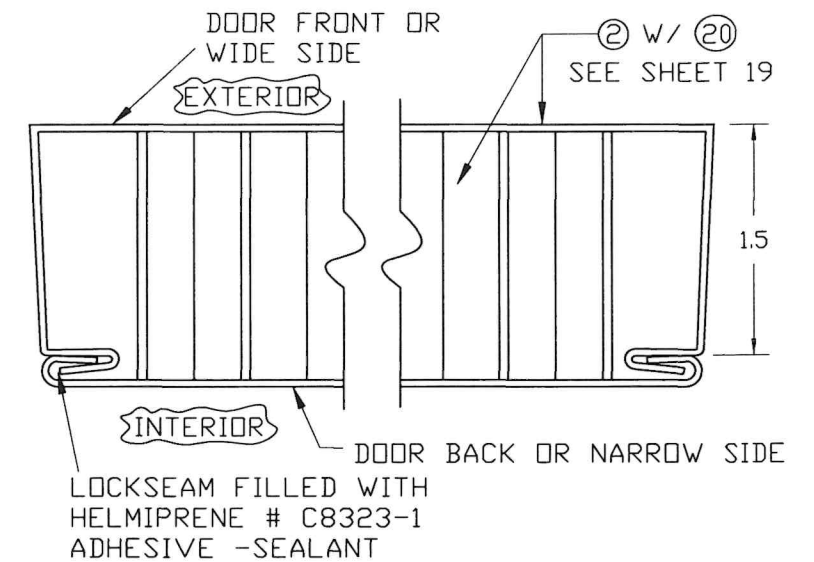


SECTION THRU ASTRAGAL AT DOUBLE DOOR

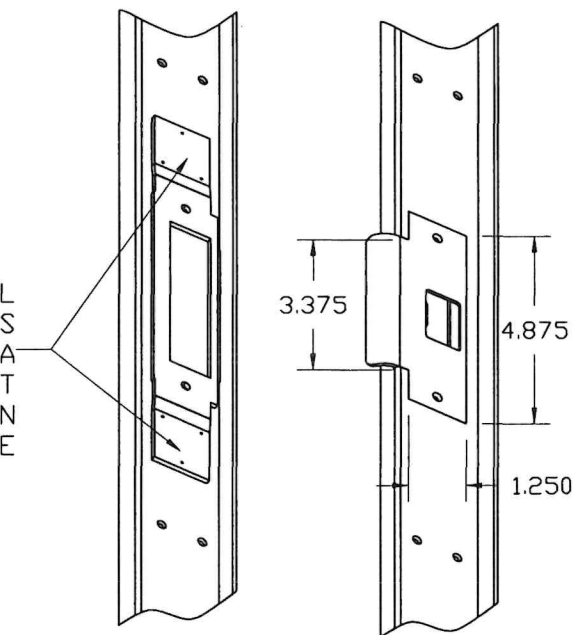


12 GAGE GALVANNEAL STEEL OR STAINLESS STEEL ASA 1299 STRIKE REINFORCEMENT FOR ASTRAGAL

12GA. GALVANNEAL OR STAINLESS STEEL ASA STRIKE REINFORCEMENT 3x1/8" PROJECTION WELD EACH SIDE



TYPICAL CROSS SECTION THRU DOOR



DETAIL 6



©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

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

DOUBLE & SINGLE SERIES LS18 OUTSWING COMMERCIAL GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "AS" 16 GAGE GALVANNEAL OR STAINLESS STEEL FRAME FLUSH, EMBOSSED & GLAZED ASSEMBLIES - L.M.

DAYBAR INDUSTRIES LTD

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

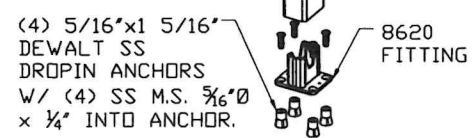
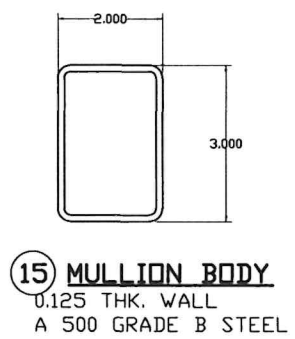
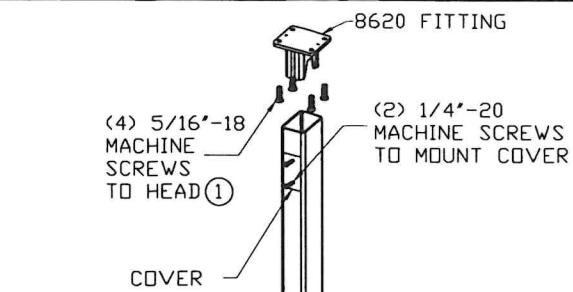
DRAWN BY:
W.H.

08/07/2026
DATE

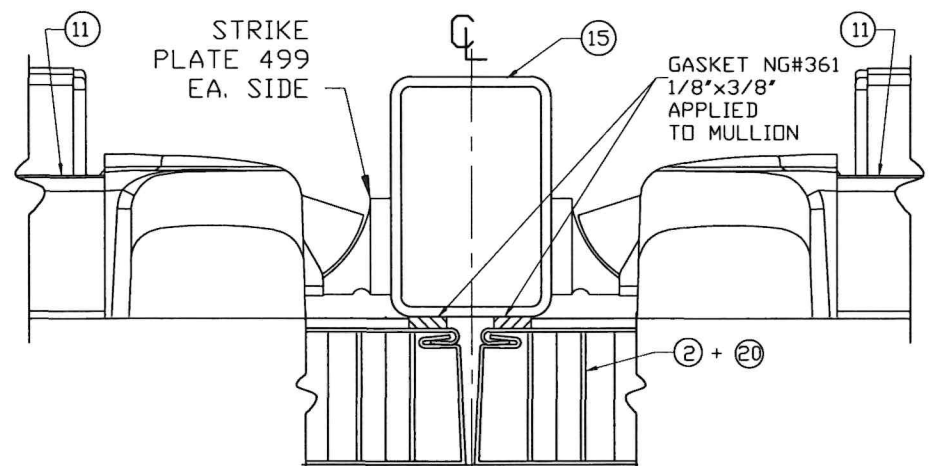
26-248
DRAWING No

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-174	08/07/2026	3		
2			4		

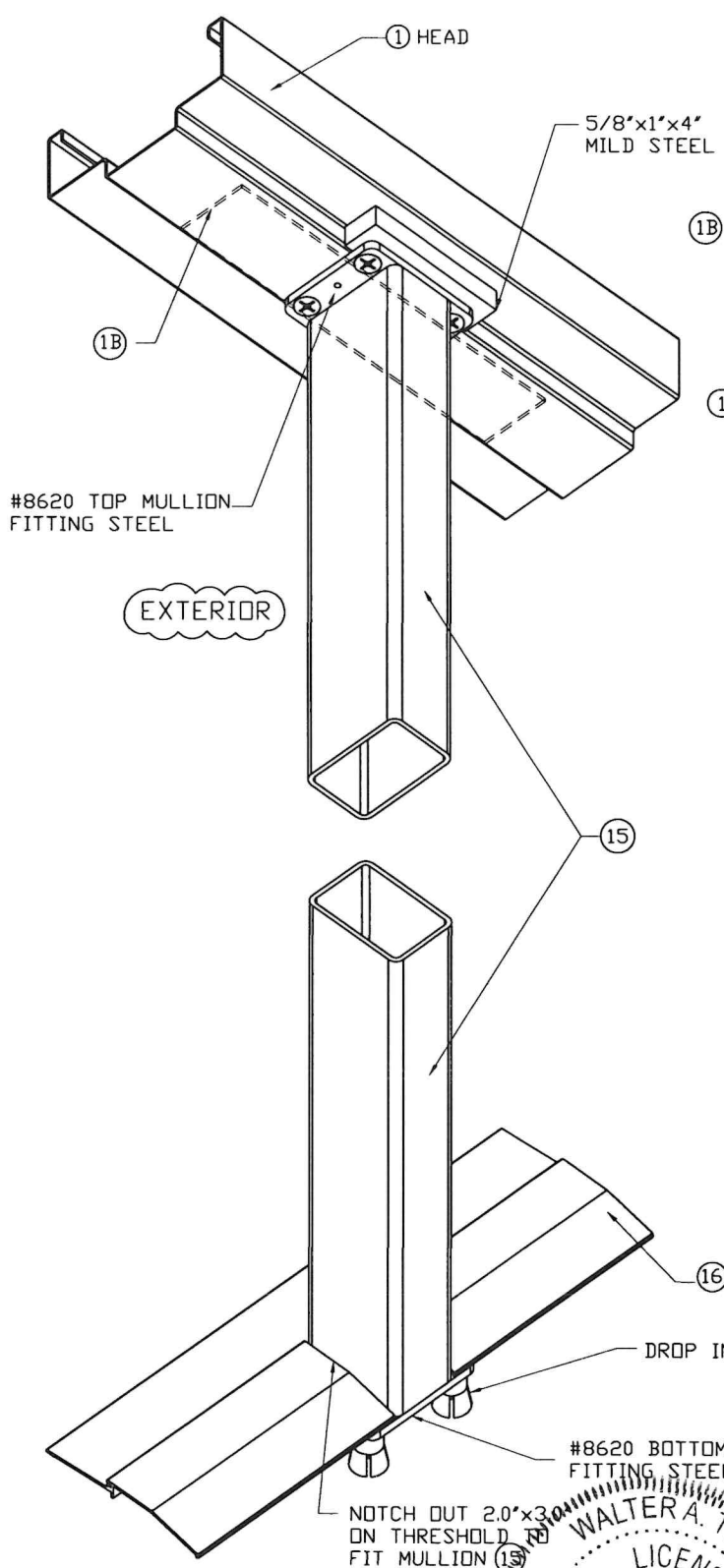
SHEET 10 OF 19



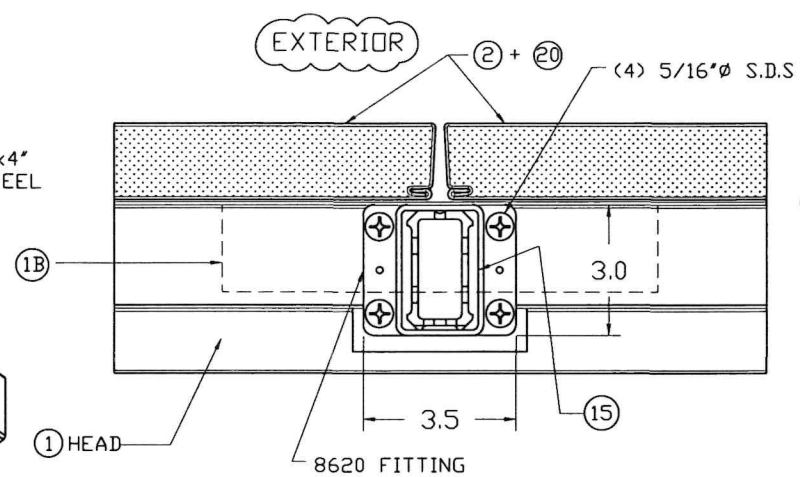
ISOMETRIC



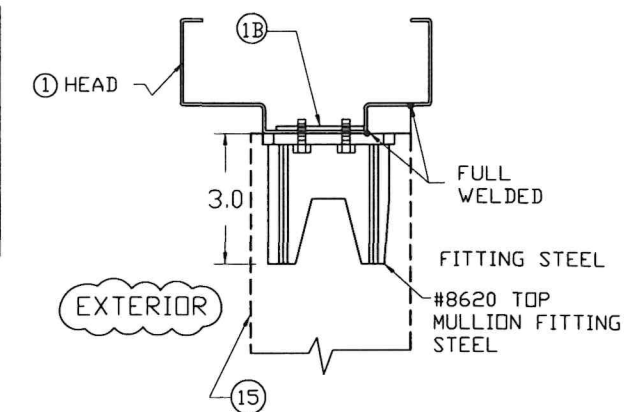
MULLION/DOOR SEAL



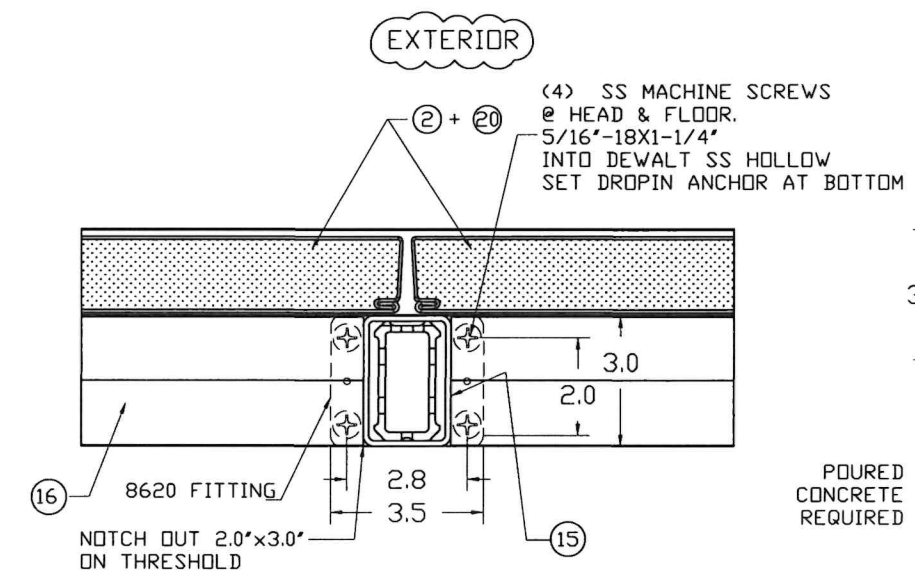
(15) VON DUPRIN SERIES 9954 (W/ 499 STRIKE PLATE) MULLION INSTALLATION



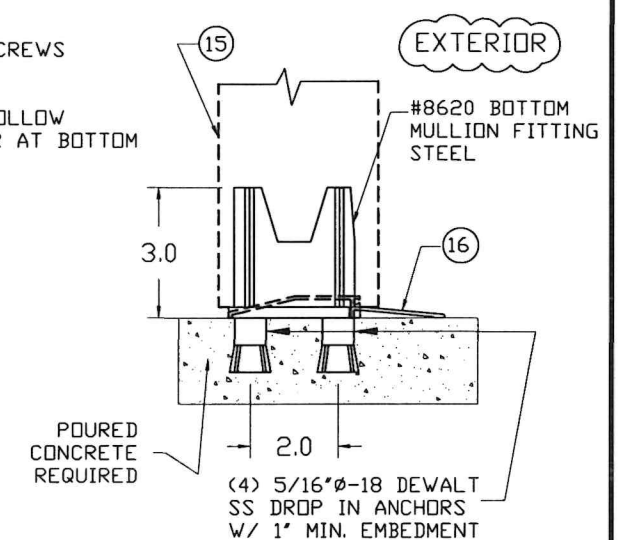
CONNECTION AT TOP (PLAN)



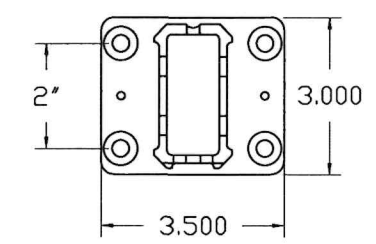
SECTION



CONNECTION AT BOTTOM (PLAN)



SECTION



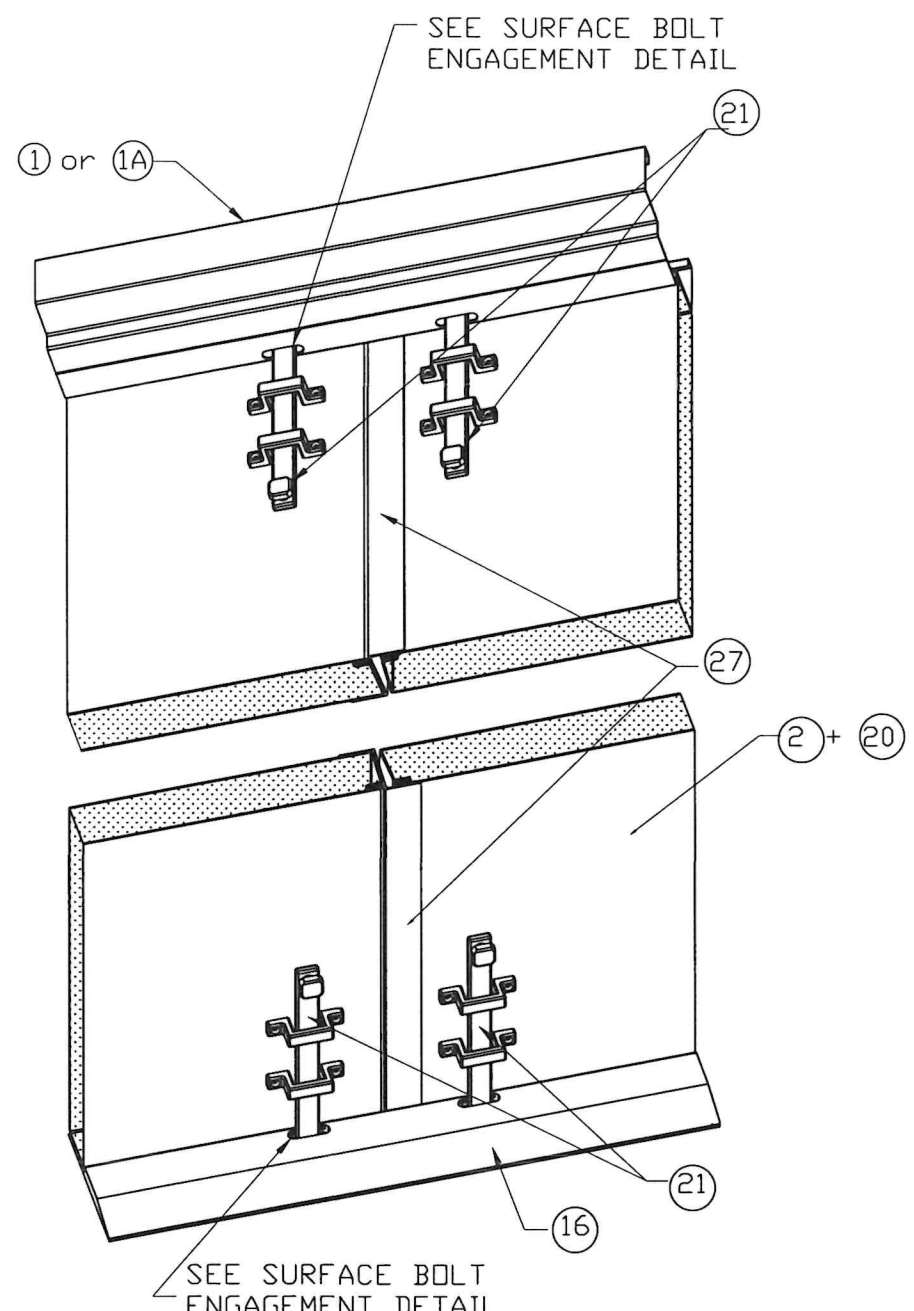
MULLION FITTING 8620 STEEL

WALTER A. TILLIT JR.
No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER
P.E. SEAL/SIGNATURE/DATE

©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

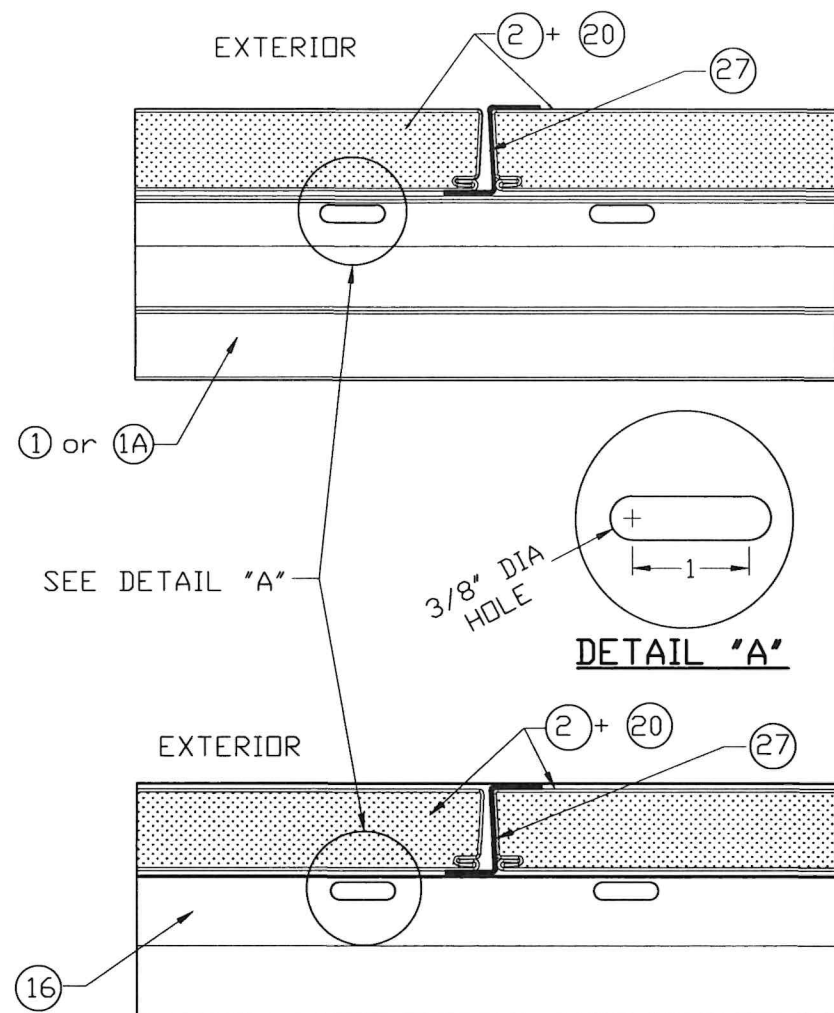
FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

DOUBLE & SINGLE SERIES LS18 OUTSWING COMMERCIAL GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "AS" 16 GAGE GALVANNEAL OR STAINLESS STEEL FRAME FLUSH, EMBOSSED & GLAZED ASSEMBLIES - L.M.						DRAWN BY: W.H.
DAYBAR INDUSTRIES LTD 50 WEST DRIVE, BRAMPTON, ON CANADA, L6T 2J4 TEL: 905 625-8000 FAX: 905 625-4204						08/07/2026 DATE
26-248 DRAWING No						SHEET 11 OF 19
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	
1	OLD 23-174	08/07/2026	3			
2			4			

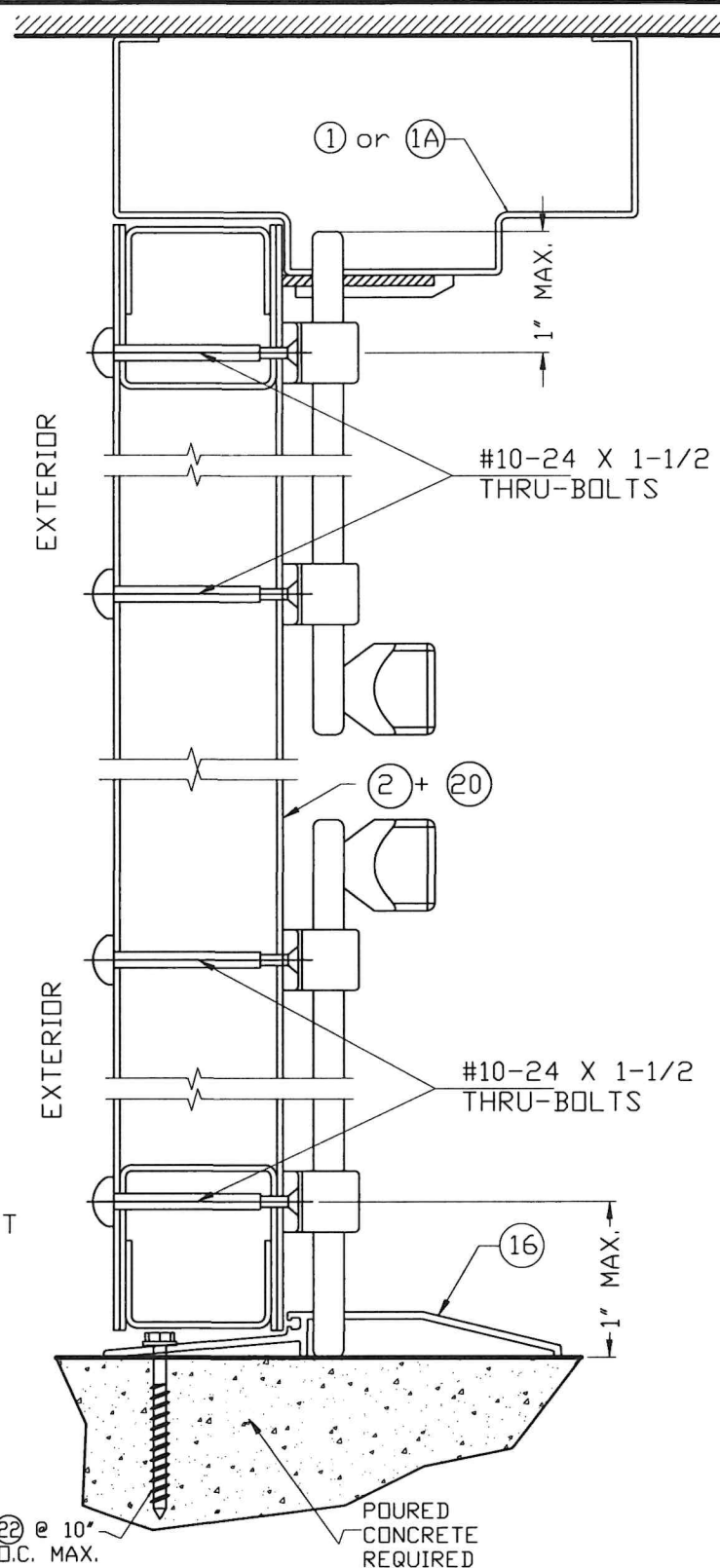
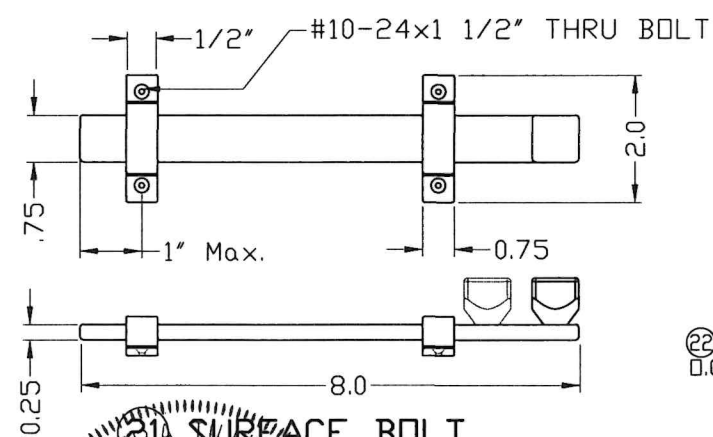


**SURFACE BOLT INSTALLATION
AT DOOR W/ ASTRAGAL (INTERIOR VIEW)**

NOTE:
SURFACE BOLT
MANUFACTURER-HAGER
MODEL #275D
MATERIAL-STEEL
FINISH US26D



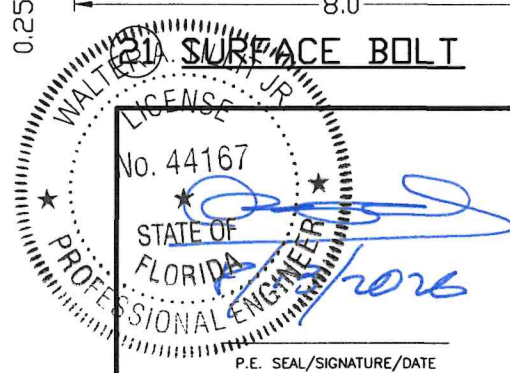
**TYPICAL SURFACE BOLT ENGAGEMENT
DETAIL AT HEAD & SILL**



TYPICAL SECTION

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

21 8" #275D HAGER SURFACE BOLT



©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

DOUBLE & SINGLE SERIES LS18 OUTSWING COMMERCIAL
GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "AS"
16 GAGE GALVANNEAL OR STAINLESS STEEL FRAME
FLUSH, EMBOSSED & GLAZED ASSEMBLIES - L.M.

DAYBAR INDUSTRIES LTD

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

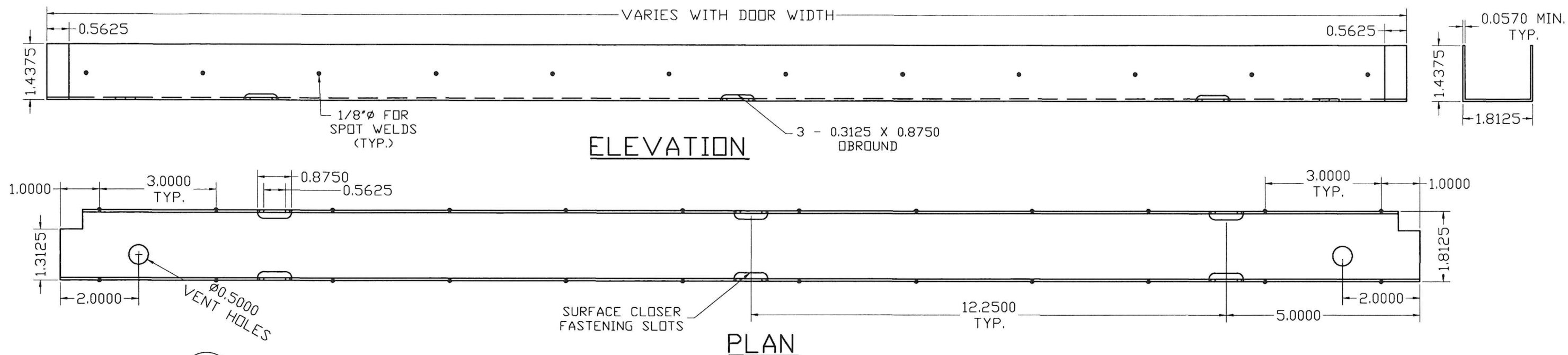
DRAWN BY:
W.H.

08/07/2026
DATE

26-248
DRAWING No

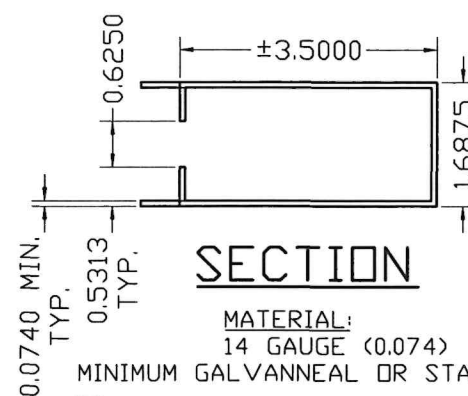
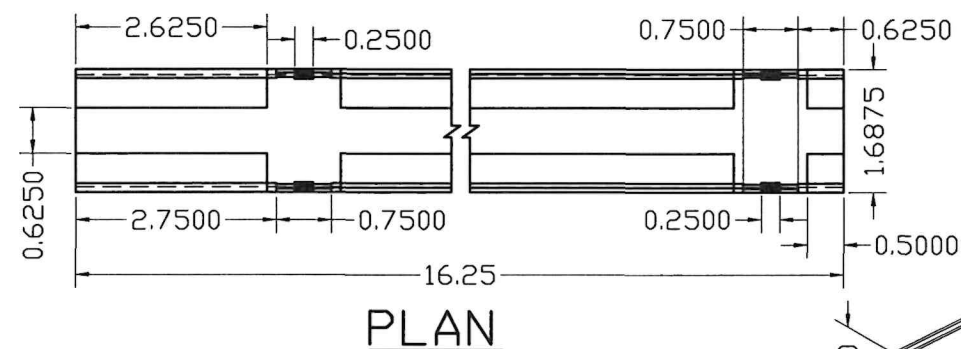
SHEET 12 OF 19

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-174	08/07/2026	3		
2			4		

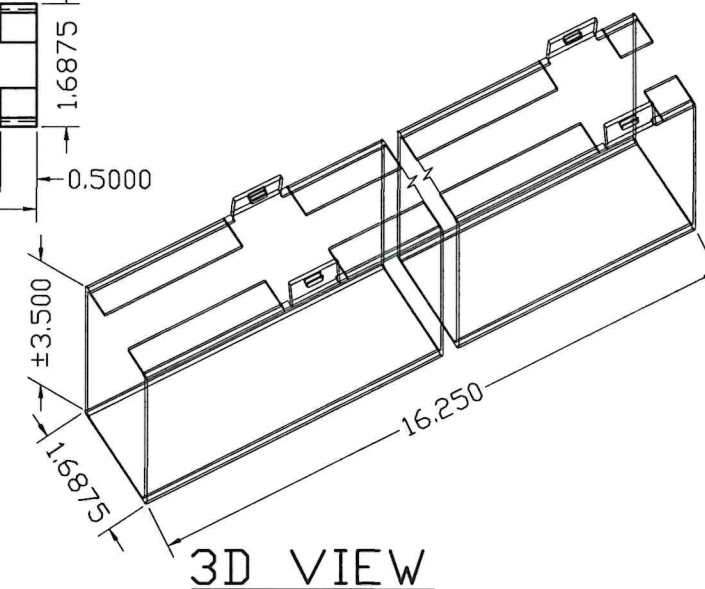


26 DOOR TOP AND BOTTOM TYPICAL END CHANNEL DETAIL

MATERIAL:
16 GAUGE (0.057) MINIMUM
GALVANNEAL STEEL OR STAINLESS STEEL

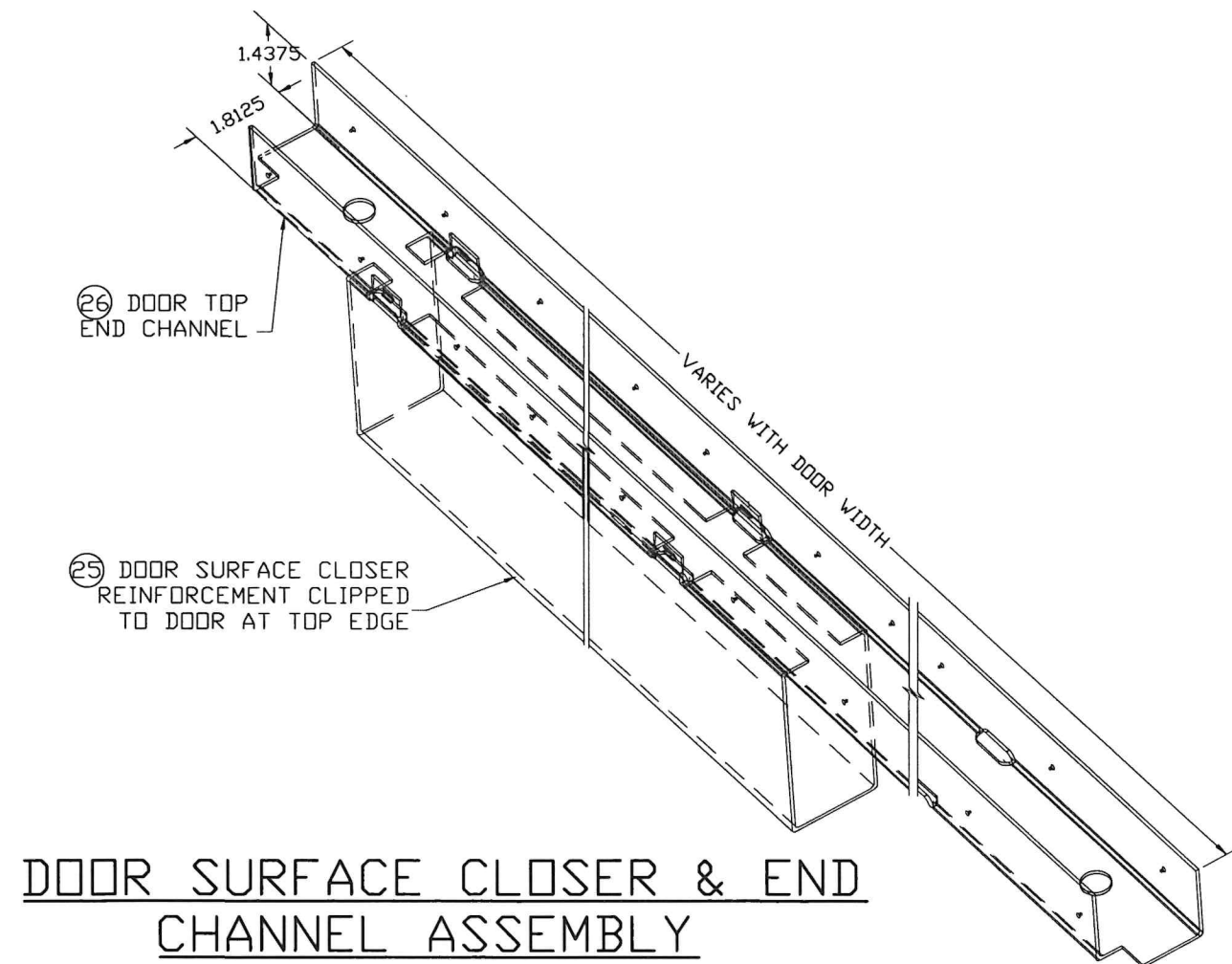


MATERIAL:
14 GAUGE (0.074)
MINIMUM GALVANNEAL OR STAINLESS STEEL



LAMINATED TO EACH FACE OF DOOR
W/ CONTACT ADHESIVE (HELHIBOND 8326-1)
AT HINGE EDGE AND TOP END CHANNEL.

25 DOOR SURFACE CLOSER REINFORCEMENT DETAIL



FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)



©2026 TILTECO, INC.

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

DOUBLE & SINGLE SERIES LS18 OUTSWING COMMERCIAL GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "AS" 16 GAGE GALVANNEAL OR STAINLESS STEEL FRAME FLUSH, EMBOSSED & GLAZED ASSEMBLIES - L.M.

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

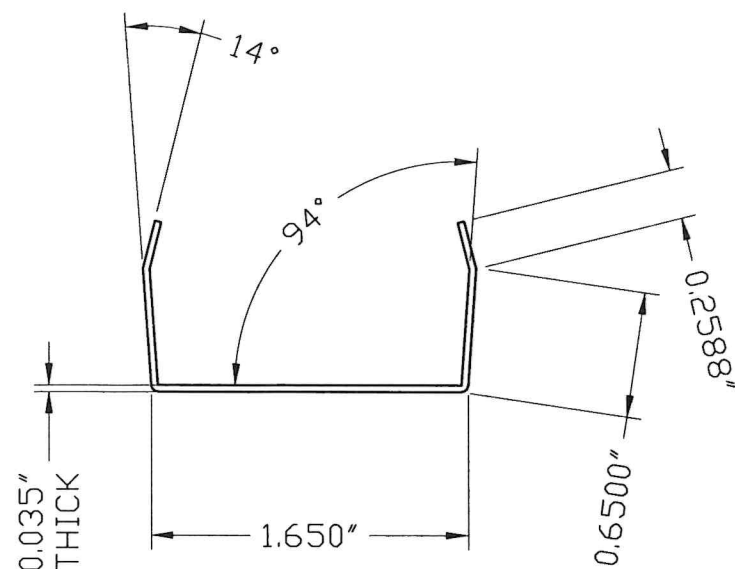
DRAWN BY:
W.H.

08/07/2026
DATE

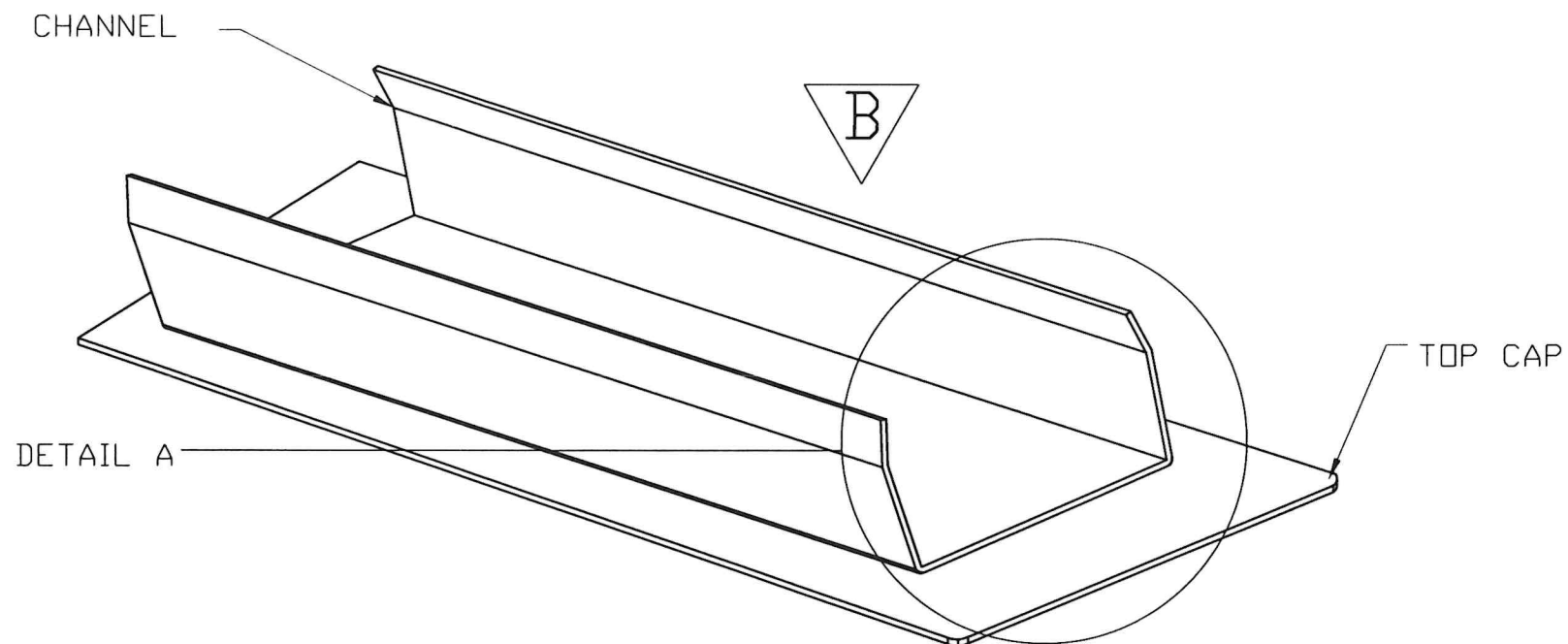
26-248
DRAWING No

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-174	08/07/2026	3		
2			4		

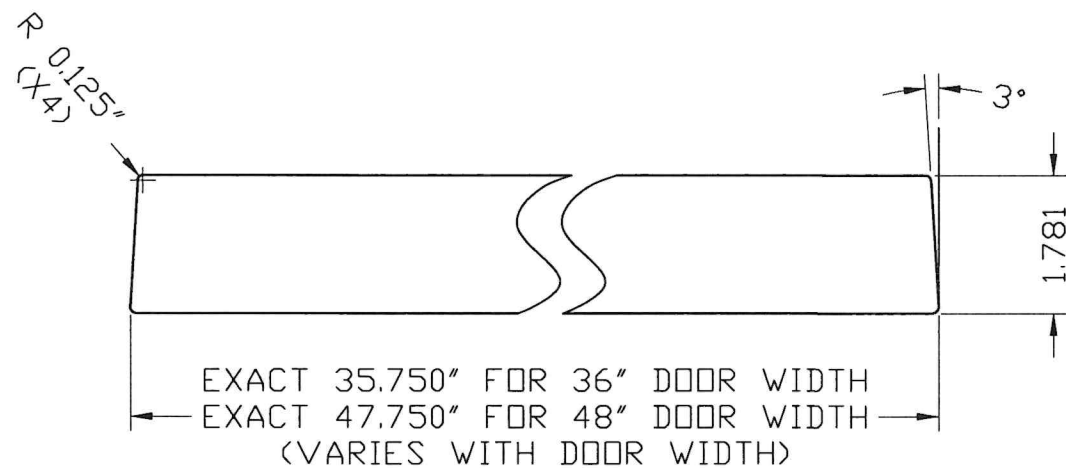
SHEET 13 OF 19



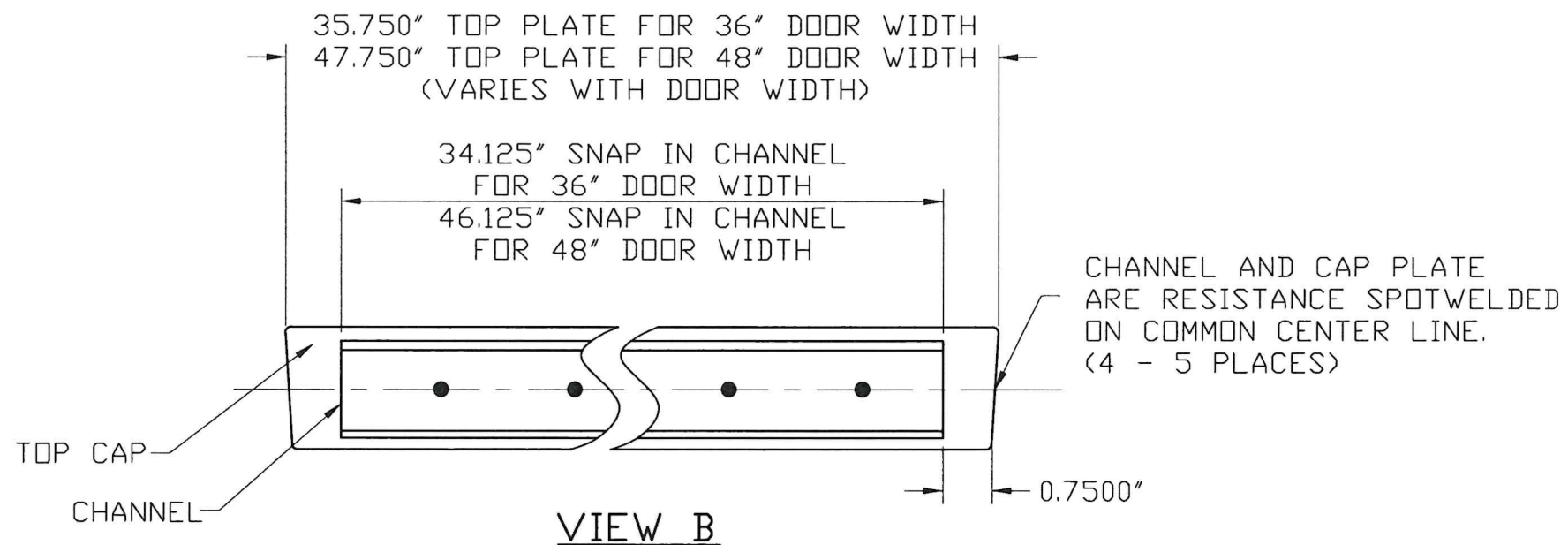
DETAIL A
SNAP IN CHANNEL



ASSEMBLY (ISOMETRIC)
(SNAP IN CHANNEL WITH TOP CAP)



STANDARD TOP CAP



VIEW B

MATERIAL: 20 GA GALVANNEAL STEEL ASTM A-653, A-60 OR STAINLESS STEEL FOR BOTH PIECES.

INSTALLATION OPTIONS:

(A) CAULK AND PRESSFIT

(B) CAULK, PRESSFIT AND TACK WELD

28

DOOR SNAP IN TOP CAP DETAIL



©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

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

DOUBLE & SINGLE SERIES LS18 OUTSWING COMMERCIAL GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "AS" 16 GAGE GALVANNEAL OR STAINLESS STEEL FRAME FLUSH, EMBOSSED & GLAZED ASSEMBLIES - L.M.

DAYBAR INDUSTRIES LTD

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

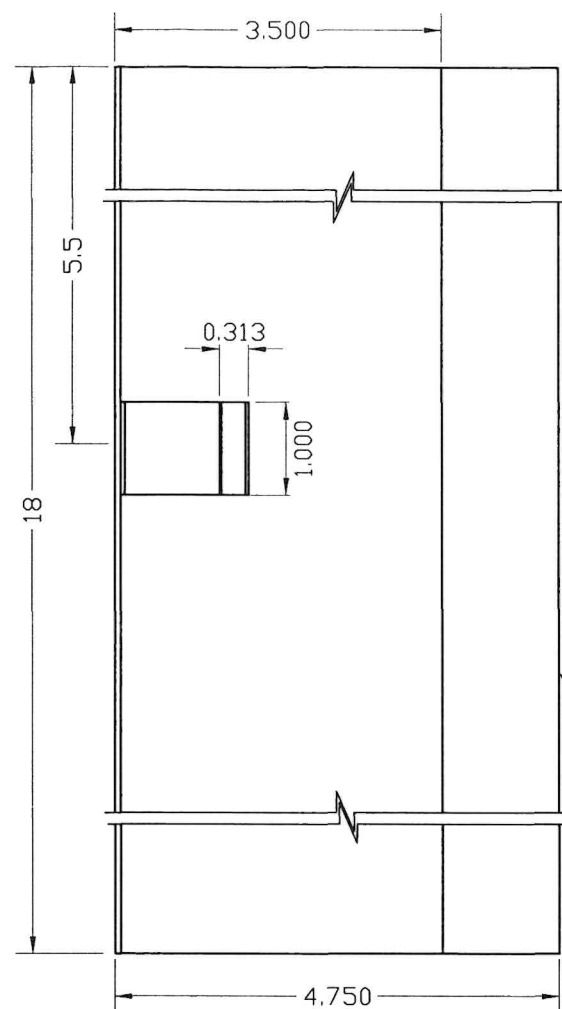
DRAWN BY:
W.H.

08/07/2026
DATE

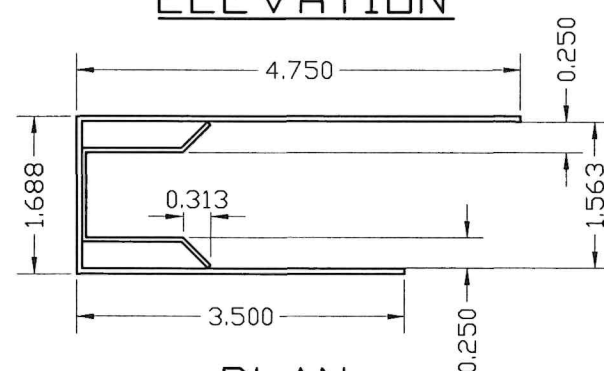
26-248
DRAWING No

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-174	08/07/2026	3		
2			4		

SHEET 14 OF 19



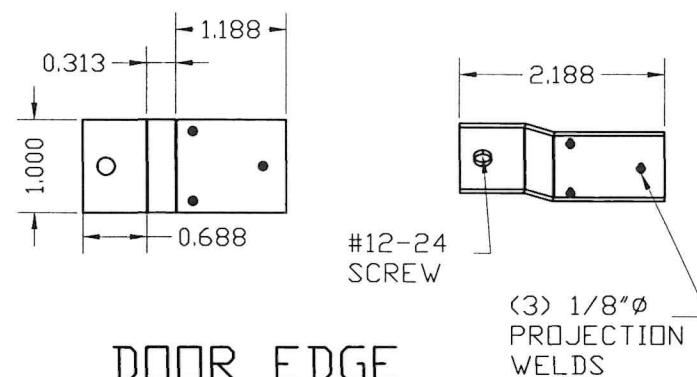
ELEVATION



PLAN

MATERIAL:
ALL GALVANNEAL STEEL OR
STAINLESS STEEL

**(23) ANSI #A115.1 #86 MORTISE
LOCK (12) /RIM PANIC (11) REINFORCING**

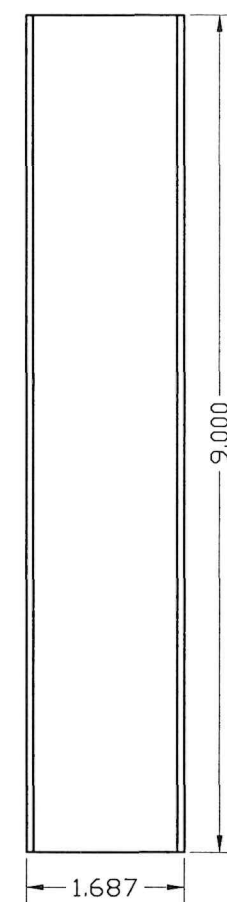
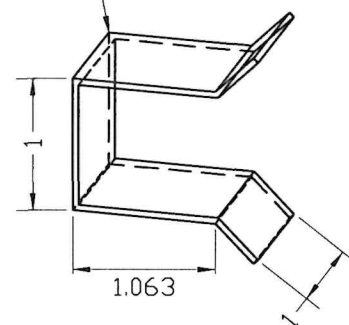


**DOOR EDGE
MOUNTING TAB**

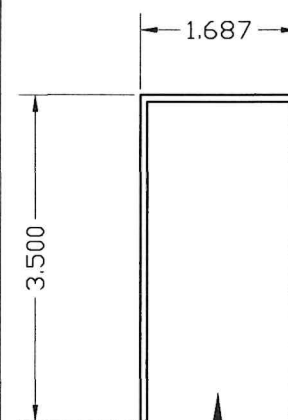
14 GA (0.074) MIN GALVANNEAL
STEEL OR STAINLESS STEEL

GAGE 14 (0.074) MINIMUM
RP REINFORCING SAME AS #86.
LESS LOCK CLIP & MOUNTING
TABS, GLUE W /CONTACT
ADHESIVE TO DOOR FACE

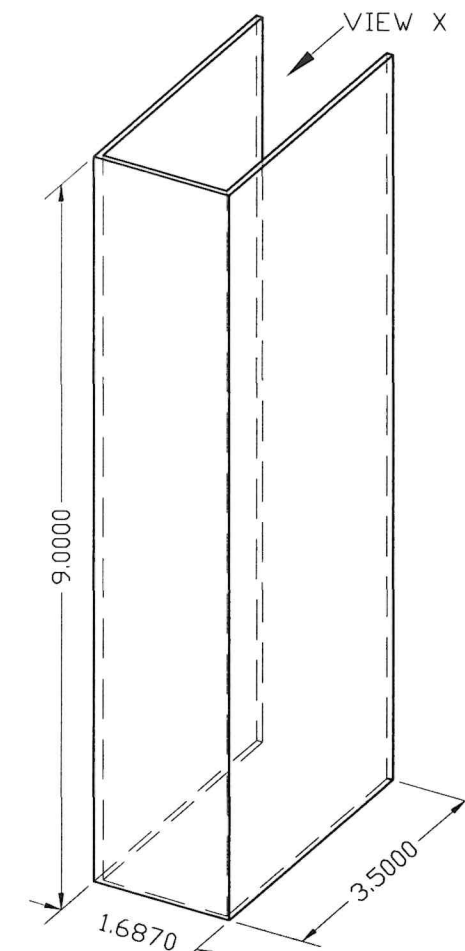
LOCK CLIP-18GA (0.045)
MIN. ONLY VALID FOR
ASSEMBLY WHERE
APPLICABLE



VIEW X



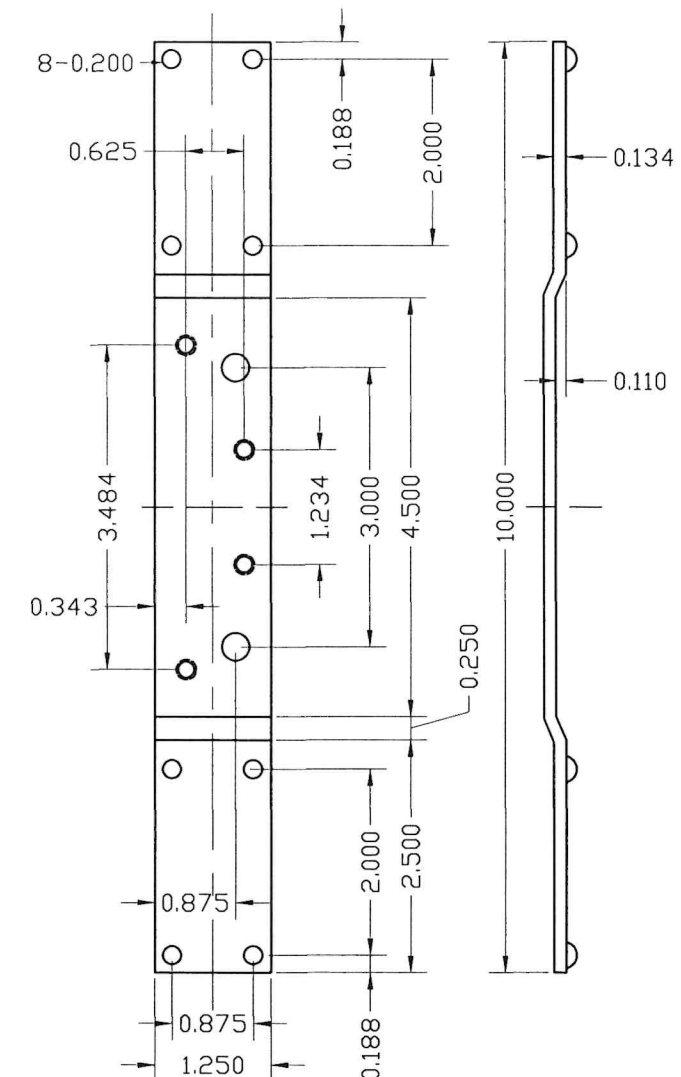
VIEW X



3D VIEW

MATERIAL:
14 GAUGE (0.074) MINIMUM
GALVANNEAL STEEL OR STAINLESS
STEEL, GLUED TO DOOR AT HEAD &
SILL USING HEMILBOND 8320-1
CONTACT ADHESIVE.

**(18) DOOR SURFACE
BOLT REINFORCING
DETAIL**



**(17) 4 1/2" HINGE BAR
REINFORCING FOR DOOR**

MATERIAL:
8 GAUGE
GALVANNEAL STEEL OR
STAINLESS STEEL

FLORIDA BUILDING CODE (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

DOUBLE & SINGLE SERIES LS18 OUTSWING COMMERCIAL
GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "AS"
16 GAGE GALVANNEAL OR STAINLESS STEEL FRAME
FLUSH, EMBOSSED & GLAZED ASSEMBLIES - L.M.

DAYBAR INDUSTRIES LTD

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

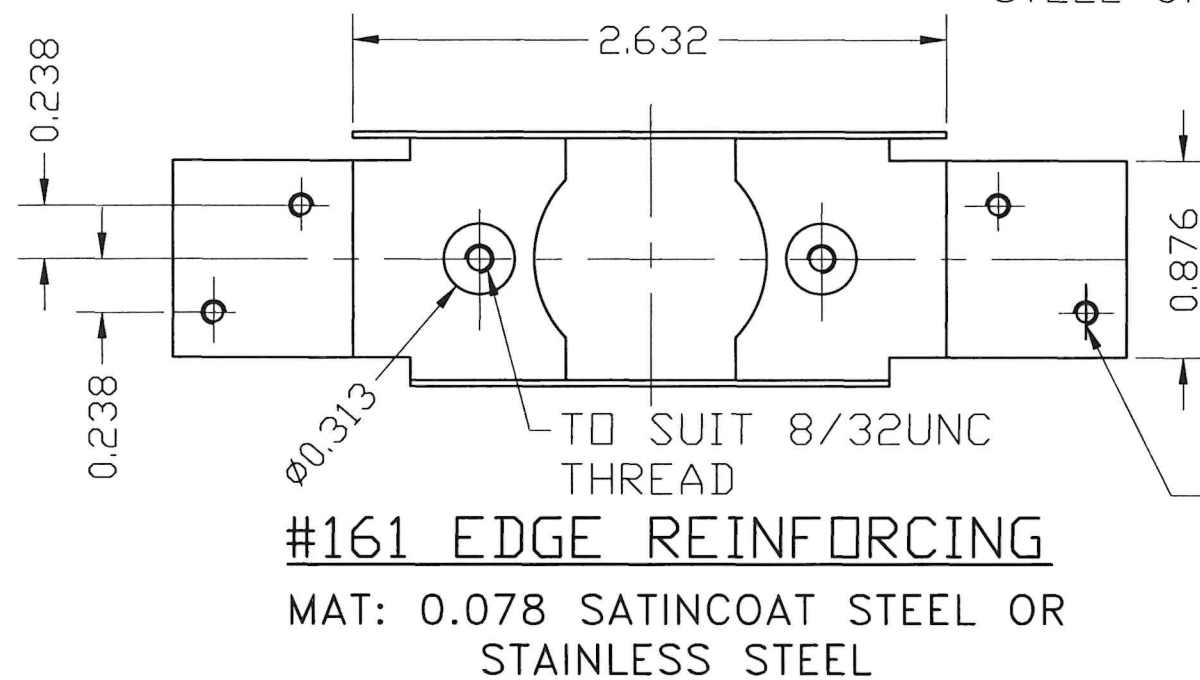
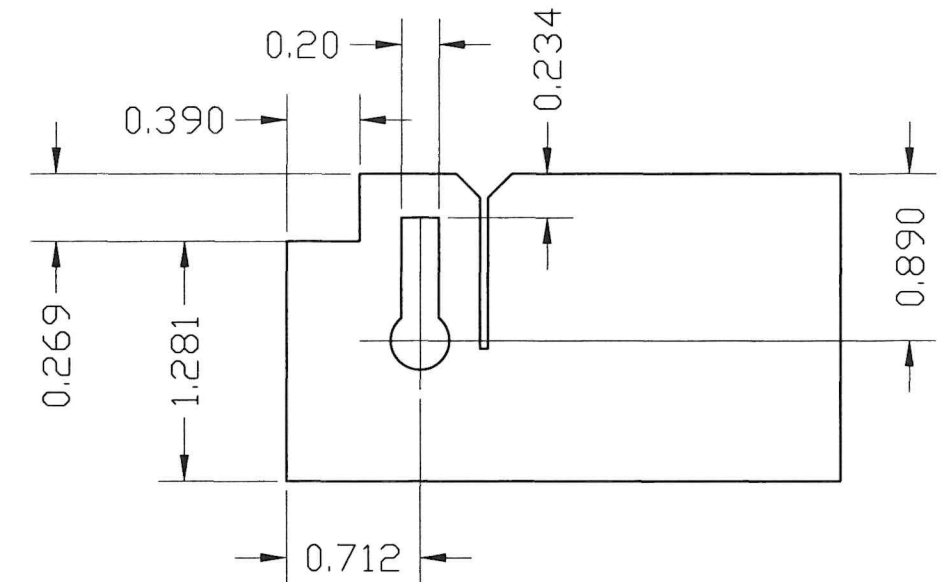
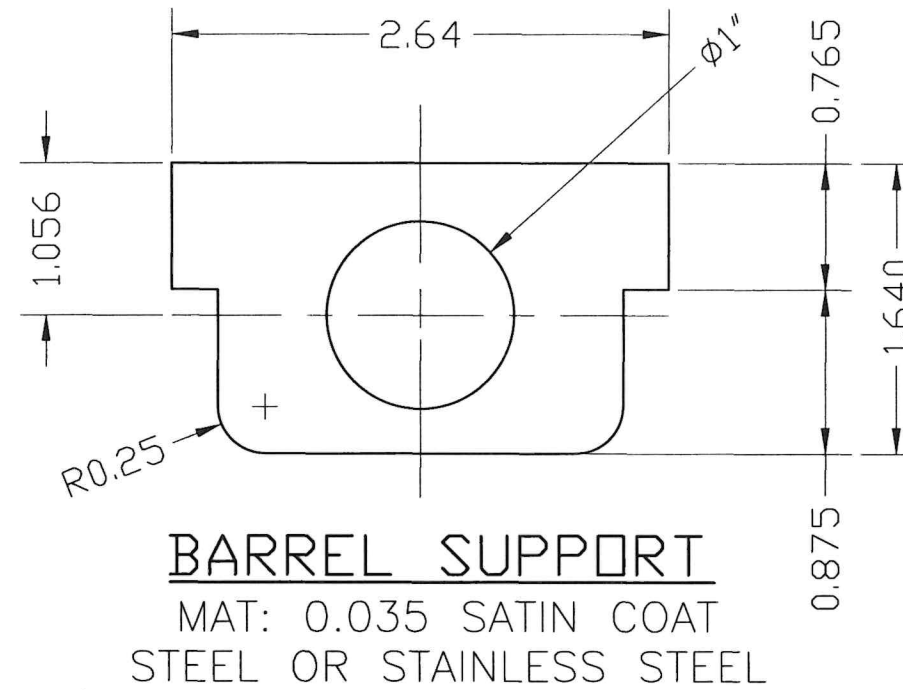
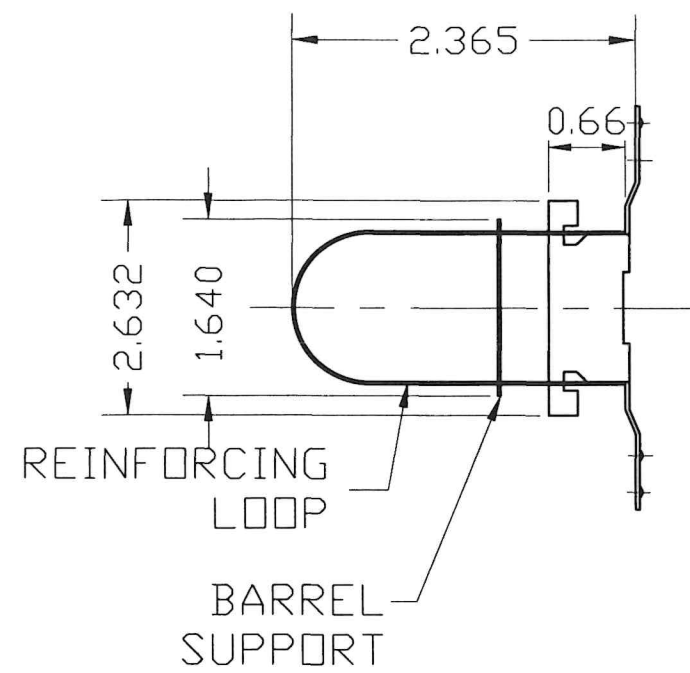
DRAWN BY:
W.H.

08/07/2026
DATE

26-248
DRAWING No

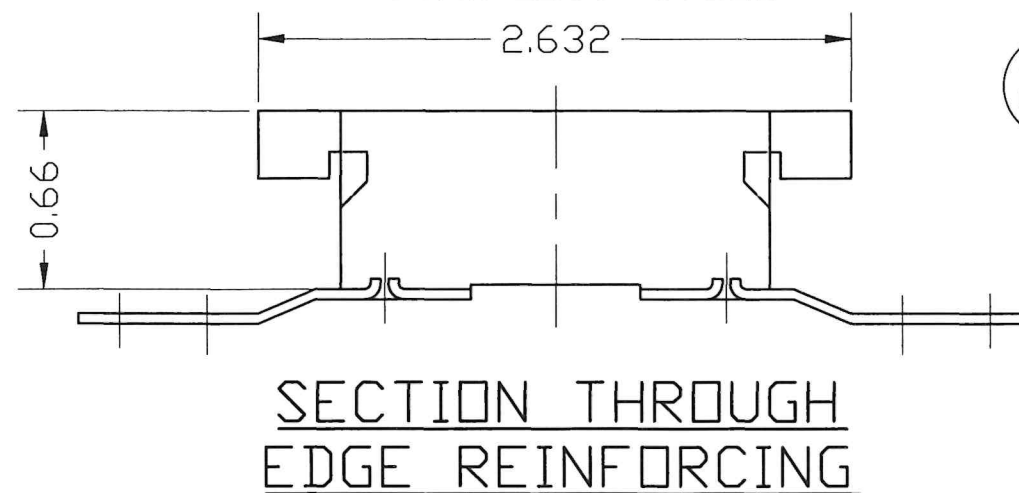
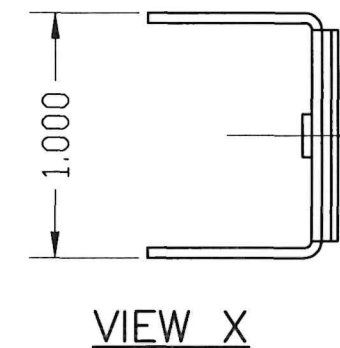
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-174	08/07/2026	3		
2			4		

SHEET 15 OF 19

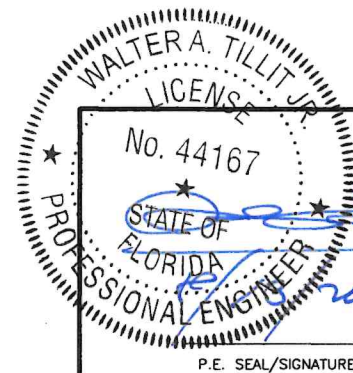


(4) 1/16"Ø
PROJECTION
WELDS

VIEW X



(24) #161 CYLINDRICAL LOCK AND DEAD BOLT REINFORCEMENT DETAIL



©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

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

DOUBLE & SINGLE SERIES LS18 OUTSWING COMMERCIAL
GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "AS"
16 GAGE GALVANNEAL OR STAINLESS STEEL FRAME
FLUSH, EMBOSSED & GLAZED ASSEMBLIES - L.M.

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

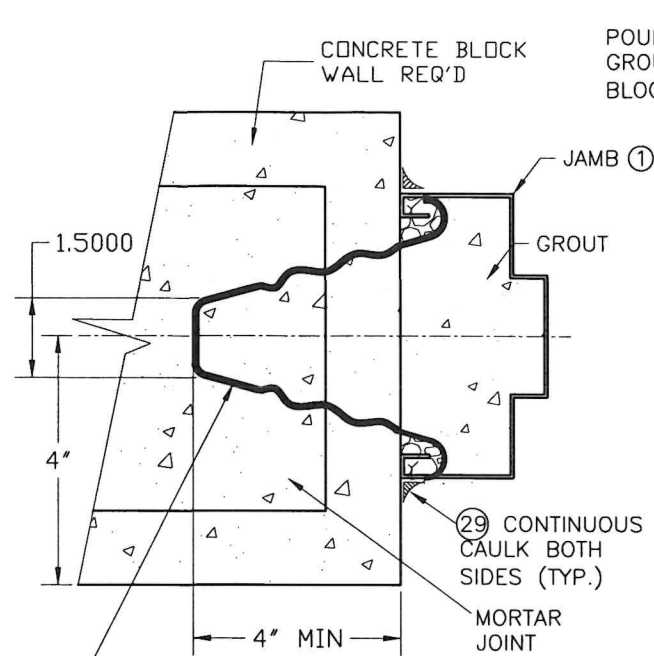
DRAWN BY:
W.H.

08/07/2026
DATE

26-248
DRAWING No

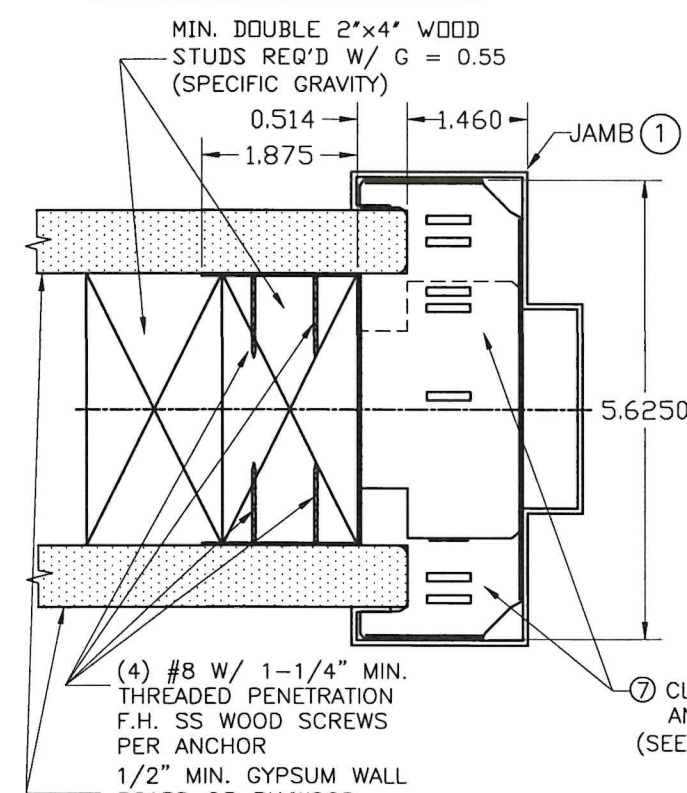
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-174	08/07/2026	3		
2			4		

SHEET 16 OF 19

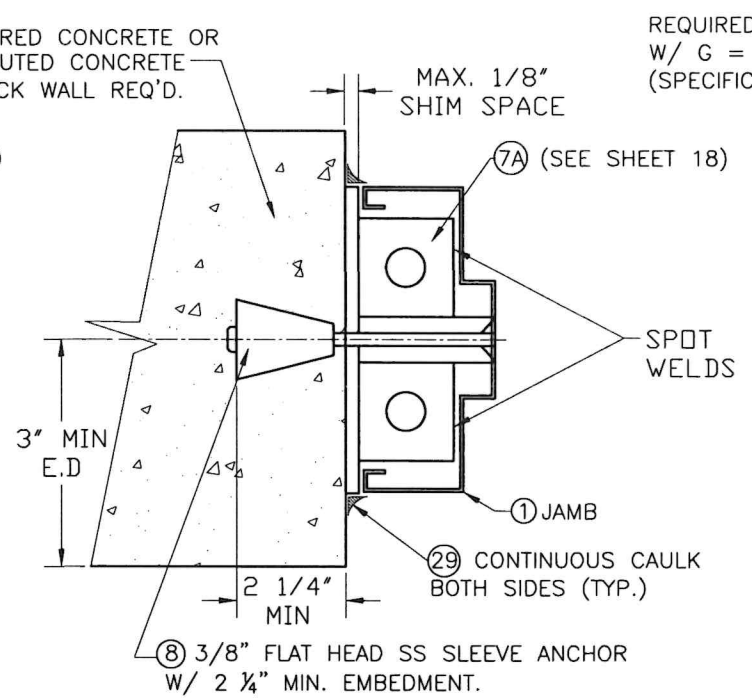


⑥ MASONRY WIRE ANCHORS IN HORIZ. MORTAR JOINTS; FILL JAMBS ① SOLID WITH GROUT PER ASTM C476 W/ MIN. COMPRESSION STRENGTH OF 2.5 Ksi (SEE SHEET 18)

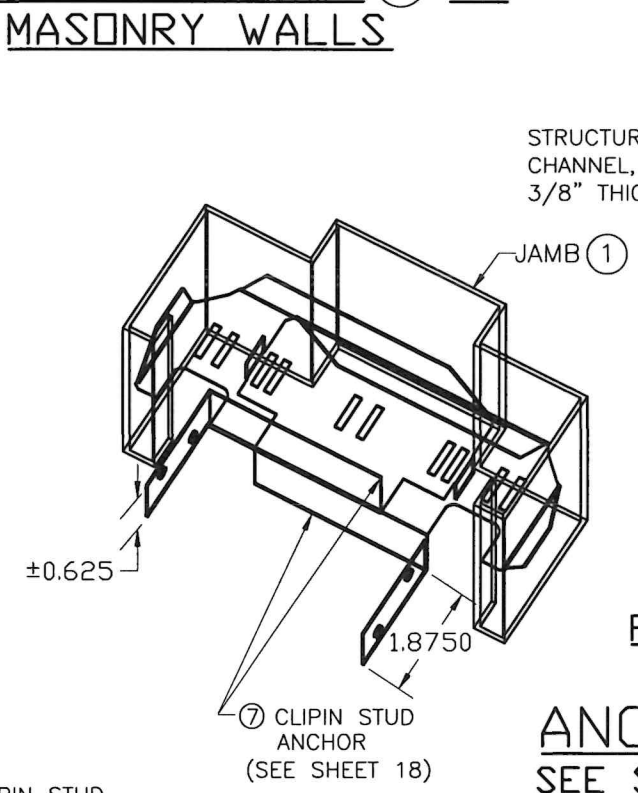
DETAIL #21
WIRE ANCHOR ⑥
INSTALLATION TO
MASONRY WALLS



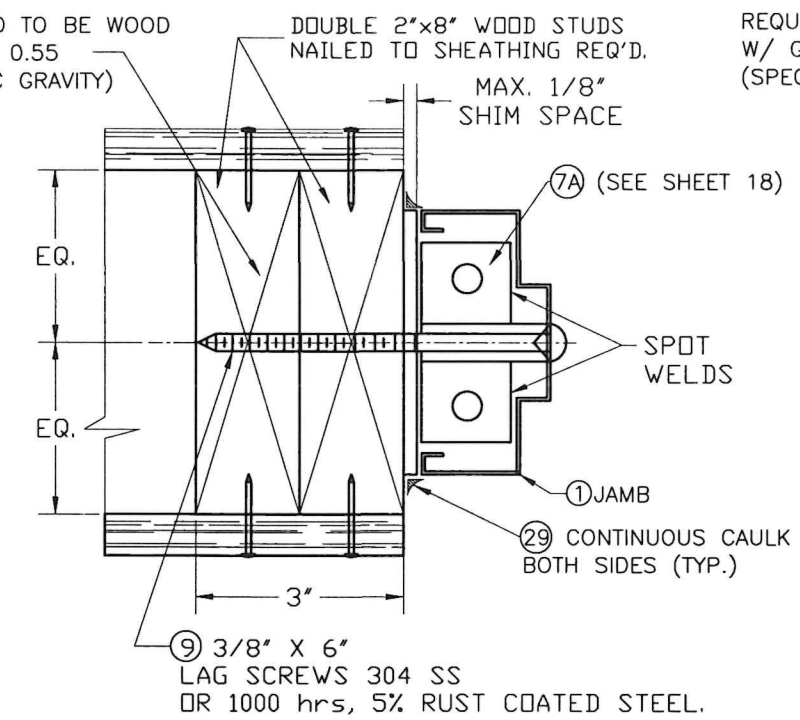
DETAIL #20
INSTALLATION OF 2 PIECE COMBINATION
STUD ANCHOR ⑦ INTO WOOD FRAME WALLS



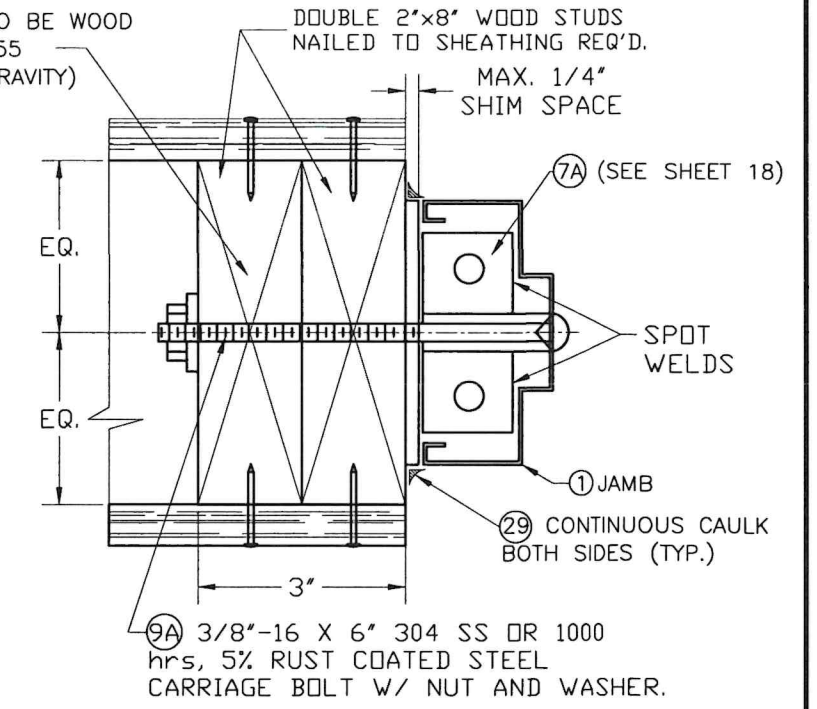
DETAIL #22
INSTALLATION OF UCAN
SLEEVE ANCHORS ⑧ TO
MASONRY WALLS



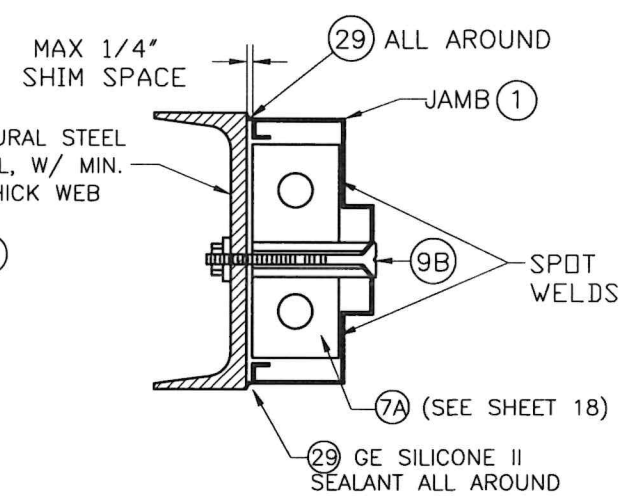
DETAIL #23A
INSTALLATION OF 3/8 inch
F.H. M.S. ⑨B TO STEEL CHANNEL



DETAIL #22A
INSTALLATION OF 3/8 inch LAG
SCREW ⑨ TO WOOD FRAME WALLS

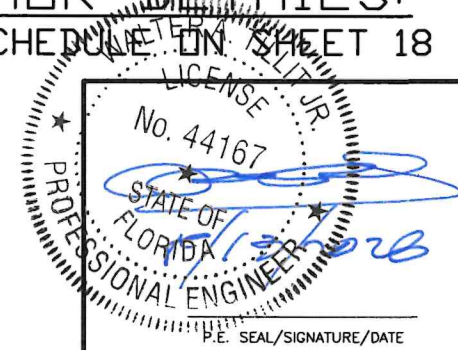


DETAIL #22B
INSTALLATION OF 3/8 inch CARRIAGE
BOLT ⑨A TO WOOD FRAME WALLS



DETAIL #23B
INSTALLATION OF JAMB ① TO
STEEL CHANNEL THRU WELDING ⑨C

ANCHOR DETAILS:
SEE SCHEDULE ON SHEET 18

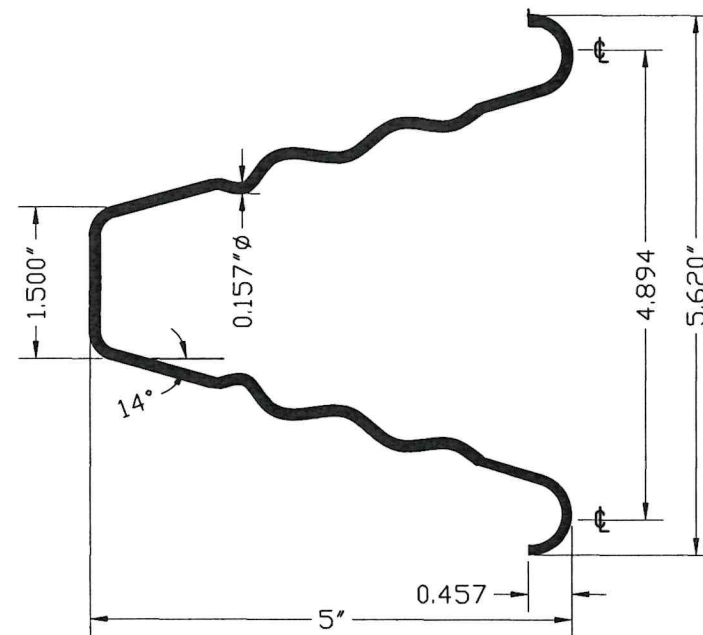


©2026 TILTECO, INC.

TILTECO INC.

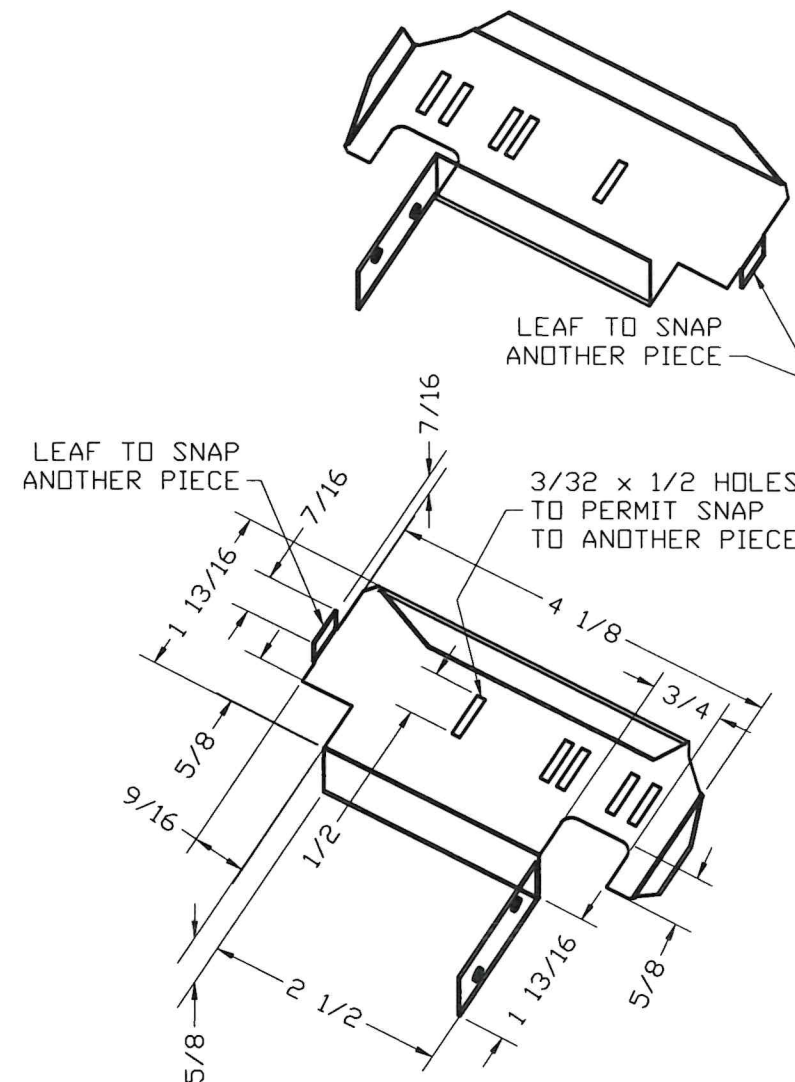
TILLIT TESTING & ENGINEERING COMPANY
6355N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone : (305)871-1530 . Fax : (305)871-1531
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)					
DOUBLE & SINGLE SERIES LS18 OUTSWING COMMERCIAL GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "AS" 16 GAGE GALVANNEAL OR STAINLESS STEEL FRAME FLUSH, EMBOSSED & GLAZED ASSEMBLIES - L.M.				DRAWN BY: W.H.	
DAYBAR INDUSTRIES LTD 50 WEST DRIVE, BRAMPTON, ON CANADA, L6T 2J4 TEL: 905 625-8000 FAX: 905 625-4204				08/07/2026 DATE	
				26-248 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-174	08/07/2026	3		
2			4		
SHEET 17 OF 19					



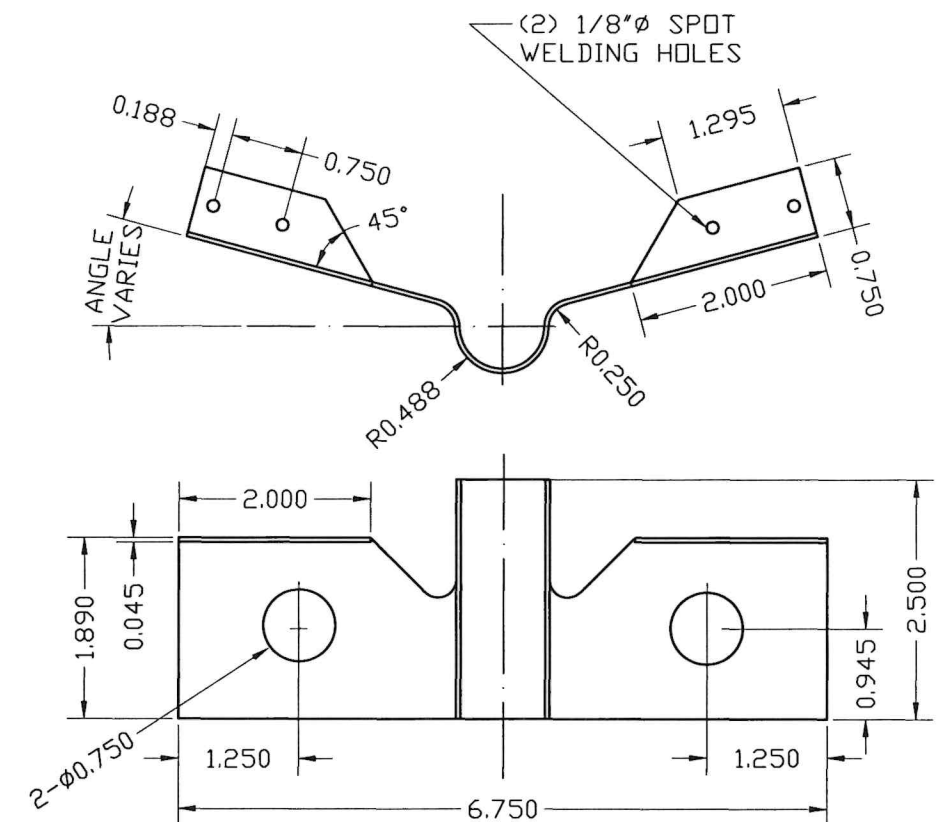
**⑥ WIRE ANCHOR
FOR DETAIL #21/17**

STEEL WIRE ANCHORS
(0.157" DIA, 9 1/2" LONG) IN HORIZ.
Fu Min.=95.9 Ksi, Fy Min.=40.2 Ksi
SEE B.O.M. ON SHEET 19

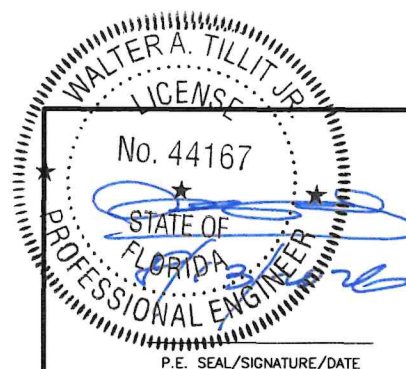


**⑦ 2 PIECE COMBINATION STUD
ANCHOR FOR DETAIL #20/17**

CLIPIN STUD ANCHOR MATERIAL:
GAUGE 20 (0.035) ASTM A-653,
A-60 GALVANNEALED STEEL.
SEE B.O.M. ON SHEET 19.



**⑦A EMA BUTTERFLY ANCHOR (PART #PT1-008)
FOR DETAILS 22/17, 22A/17 22B/17 & 23A/17**
MATERIAL: 18 GA SATIN COAT



©2026 TILTECO, INC.
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

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

DOUBLE & SINGLE SERIES LS18 OUTSWING COMMERCIAL GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "AS" 16 GAGE GALVANNEAL OR STAINLESS STEEL FRAME FLUSH, EMBOSSED & GLAZED ASSEMBLIES - L.M.					
DAYBAR INDUSTRIES LTD			DRAWN BY: W.H.		
50 WEST DRIVE, BRAMPTON, ON CANADA, L6T 2J4			08/07/2026 DATE		
TEL: 905 625-8000			26-248		
FAX: 905 625-4204			DRAWING No		
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-174	08/07/2026	3		
2			4		

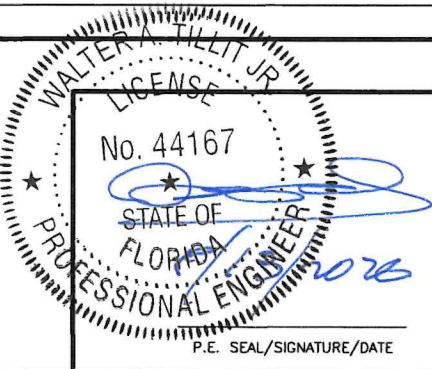
SHEET 18 OF 19

BILL OF MATERIALS:

ITEM	QTY	DESCRIPTION	MATERIAL	SIZE AND SPEC'S
1	1	16 GAUGE JAMB/ HEAD FRAME SERIES "AS"	16 GAUGE .058 MINIMUM. ALL COMPONENTS OF THIS ITEM, i.e., HEAD, JAMBS, REINFORCEMENTS AND ANCHORS ARE COMMERCIAL GALVANIZED STEEL (TYPE B), ASTM A653/A653M, COATING DESIGNATION A40, KNOWN COMMERCIALLY AS PAINTABLE GALVANNEAL W/ MIN. TENSILE STRENGTH 52 KSI, MIN. YIELD STRENGTH 45 KSI, ELONGATION 40% OR STAINLESS STEEL*	5 3/4" DEPTH X 2" FACE X .058" MIN THICK (SEE SHEET 9)
1A	1	16 GAUGE OPTIONAL HEAD FRAME SERIES "AS"	SAME AS ITEM 1	5 3/4" DEPTH X 4 3/8" FACE X .058" MIN THICK (SEE SHEET 9)
1B	1	SURFACE STRIKE REINFORCING	12 GAGE GALVANNEAL STEEL OR STAINLESS STEEL*	12 GAGE (0.097" MIN.) x 1.500" x 11.875" LONG, SEE DETAIL ON SHEET 9.
2	1	18 GAUGE FLUSH/EMBOSSED DOOR COMMERCIAL W/ CORE (20)	18 GAUGE .045 MINIMUM. ALL COMPONENTS OF THIS ITEM, i.e. FACE SHEETS, INTERNAL COMPONENTS AND REINFORCEMENTS ARE GALVANIZED STEEL CONFORMING TO ASTM A924, TO ASTM A653/A653M, COMMERCIAL STEEL (TYPE B), COATING DESIGNATION A40, KNOWN COMMERCIALLY AS PAINTABLE GALVANNEAL W/TENSILE STRENGTH 60 KSI, AND YIELD STRENGTH MIN. 45 KSI, ELONGATION 40% OR STAINLESS STEEL*	1 3/4" THICK X (.045 MIN), SEE SHEET 4, 5, 6 & 7.
3	3	8 GAUGE DOOR HINGE REINFORCING	GALVANNEAL STEEL OR STAINLESS STEEL*	1 1/4" X 10" X 8 GAUGE
4	3	8 GAUGE FRAME HINGE REINFORCING	GALVANNEAL STEEL OR STAINLESS STEEL*	1 1/2" X 8 3/4" X 8 GAUGE
5	1	STRIKE REINFORCING (FRAME)	GALVANNEAL STEEL OR STAINLESS STEEL*	1 3/8" X 7 5/16" X 14 GAUGE (0.072 MIN)
6	AS REQ'D	WIRE MASONRY FRAME ANCHORS	STEEL W/ MIN. YIELD STRENGTH = 40.2Ksi AND MIN. TENSILE STRENGTH = 95.9 Ksi	9 1/2" LONG X 0.157" MIN. DIAMETER.
7	AS REQ'D	CLIPIN STUD ANCHORS (2 PIECE COMBINATION)	STEEL, ASTM A-653, A-60 GALVANNEAL	MUST COMPLY WITH SECTIONS 1711.1.2.1, 1711.1.2.2 OR 1711.1.2.3 AS APPLICABLE.
7A	AS REQ'D	EMA BUTTERFLY ANCHOR (PART #PT1-008)	STEEL	18 GAUGE STEEL SATIN COAT.
8	AS REQ'D	EMA ANCHOR BOLTS	STEEL, W/ Fy = 45,000 psi.	3/8" X 5" SS UCAN-SLEEVE ANCHOR.
9	AS REQ'D	LAG SCREW	STEEL, W/ Fy = 45,000 psi.	3/8" x 6". SEE SHEET 17.
9A	AS REQ'D	CARRIAGE ANCHOR BOLT	STEEL, W/ Fy = 45,000 psi.	3/8"-16 X 6" STEEL CARRIAGE BOLT C/W NUT AND WASHER, SEE SHEET 17.
9B	AS REQ'D	F.H. M.S. TO STEEL CHANNEL THROUGH BOLTING	STEEL, W/ Fy = 45,000 psi.	3/8" X 3 1/2" STEEL F.H. M.S., PER ASTM A-307
9C	AS REQ'D	STEEL CHANNEL WELDING	E60XX ELECTRODE FOR GALVANNEAL STEEL,E-308 ELECTRODES FOR STAINLESS STEEL*	WELD ON INSTALLATION, MIN. 1/8"x3/8" STITCH WELD
10	3	HINGES-HAGER BB1279, BB168HD OR STANLEY FBB179, FBB168	STEEL	4.5" X 4.5" STANDARD WEIGHT (.134 THICK), ATTACHED TO FRAME W/(4) 12-24x1/2" FHMS.
11	1	RIM EXIT: VON DUPRIN 98/99L X CYC X TRIM W/ 499 STRIKE PLATE	AS PER MANUFACTURER'S CATALOG	RIM EXIT ATTACHED TO DOOR W/(4) 1/4-20x1" MS. (2) STRIKE PLATES EA. MULLION
12	1	MORTISE LOCK: SCHLAGE-L9000 SERIES W/ DEAD BOLT	AS PER MANUFACTURER'S CATALOG	MORTISE LOCK ATTACHED W/(2) #12-24x1/2" SREWS.
13	1	CYLINDRICAL LOCK: - SCHLAGE D SERIES	AS PER MANUFACTURER'S CATALOG	ATTACHED TO STRIKE PLATE W/(2) 12-24x1/2" SCREWS.
14	1	DEAD BOLT: - SCHLAGE B SERIES	AS PER MANUFACTURER'S CATALOG	ATTACHED TO STRIKE PLATE W/(2) 8-32x1/2" SCREWS
15	1	VON DUPRIN #9954 REMOVABLE MULLION	0.125" THICK A 500 GRADE B STEEL	SECURED TO 499 STRIKE PLATE WITH (8) 5/16"-18x1"(MIN.) MACHINE SCREWS.
15A	1	WEATHER STRIP (NATIONAL GUARD PRODUCTS #120NA)	NEOPRENE	SECURED WITH DOUBLE ROW OF #6x1/2" SMS SCREWS @ 1' FROM EACH END AND 4" O.C. (AS PREDRILLED BY MANUFACTURER)
16	1	THRESHOLD (NATIONAL GUARD PRODUCTS #950NA)	EXTRUDED ALUMINUM (6063-T5 ALLOY)	5" x 0.500" x 0.080" THICK, ATTACHED TO SLAB W/ 3/16"x 1 3/4" F. H. TAPCON ANCHORS W/ 1 1/4" MIN. EMBEDMENT LOCATED @ 2 3/4" FROM EACH END AND 10" O. C.
17	1	4 1/2" HINGE BAR REINFORCING FOR DOOR	GALVANNEAL STEEL OR STAINLESS STEEL*	1.25" x 10" x 0.134" MIN. THICK
18	1	DOOR SURFACE BOLT REINFORCING	GALVANNEAL STEEL OR STAINLESS STEEL*	14 GAGE (0.074") x 1.687" x 3.500" x 9.000" LONG.
19	AS REQ'D	3/8" LEXAN VISION LITE	AS PER MANUFACTURER (DAYBAR INDUSTRIES, LTD)	SEE SHEET 8 FOR DETAILS & COMPONENTS
19A	AS REQ'D	1/2" LEXAN VLF-EZ-IG VISION LITE	AS PER MANUFACTURER (AIR LOUVERS, INC.)	SEE SHEET 8 FOR DETAILS & COMPONENTS
20	1	0.75" THICK APPROVED EXPANDED POLYSTYRENE DOOR CORE OR 3/4" AXDOR (117 gr/m ³) CELL PAPER HONEYCOMB, OR APPROVED POLYURETHANE OR 12.5 pcf MINERAL BOARD.	ADHERED TO @ W/ HELMIBOND #8320-1, JDWATHERM 609.30 OR DURAL UH-1077 ADHESIVES AT 7 gr/ft ² .	
21	4	8" LONG # 275 D HAGER SURFACE BOLT	STEEL W/ US26D FINISH	ENGAGED TO THE DOOR AT TOP AND BOTTOM TO HEADER & THRESHOLD RESPECTIVELY & FASTENED TO DOOR W/ (4) #10-24 x 1 1/2" THRU BOLT EACH CONNECTION.
22	AS REQ'D	ULTRACON+ OR ULTRACON SS4.	STEEL	3/16" x 1 3/4", BY DEWALT.
23	1	MORTISE LOCK AND RIM PANIC DEVICE REINFORCEMENT	0.074" MIN. THICK GALVANNEAL STEEL OR STAINLESS STEEL*	SEE SHEET 15 FOR SUBCONJUNTS
24	1	#161 CYLINDRICAL LOCK AND DEAD BOLT REINFORCEMENT	SATIN COAT STEEL OR STAINLESS STEEL*	SEE SHEET 16 FOR DETAILS
25	1	DOOR SURFACE CLOSER REINFORCEMENT	0.074" MIN. THICK GALVANNEAL STEEL OR STAINLESS STEEL*	14 GAGE (0.074" MIN.) x 3 1/2" x 1.6875 x 16.250" LONG.
26	1	DOOR TOP/ BOTTOM END CHANNEL	16 GAGE GALVANNEAL STEEL OR STAINLESS STEEL*	16 GAGE (0.057" MIN.) x 1.8125" x 1.4375.
27	1	"Z" ASTRAGAL	0.075" MIN. THICK A 500 GRADE B GALVANNEAL STEEL OR STAINLESS STEEL*	0.075" MIN. THICK x 2.00" x (2)0.625" x 84" LONG.
28	1	DOOR SNAP IN TOP CAP	20 GAGE GALVANNEAL STEEL ASTM A-653, A-60 OR STAINLESS STEEL*	SEE SHEET 14 FOR SIZES
29	AS REQ'D	CAULKING: GE SILICONE II	N/A	
30	AS REQ'D	995 DOW CORNING STRUCTURAL SILICONE	N/A	

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

* AISI 304 SERIES STAINLESS STEEL WITH Fy =45.75 Ksi AND Fu= 101.38 Ksi



©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

DOUBLE & SINGLE SERIES LS18 OUTSWING COMMERCIAL GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "AS" 16 GAGE GALVANNEAL OR STAINLESS STEEL FRAME FLUSH, EMBOSSED & GLAZED ASSEMBLIES - L.M.

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

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-174	08/07/2026	3		
2			4		

DRAWN BY:
 W.H.

08/07/2026
 DATE

26-248
 DRAWING No

SHEET 19 OF 19