



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
 BOARD AND CODE ADMINISTRATION DIVISION

**NOTICE OF ACCEPTANCE (NOA)**

**Unified Door and Hardware Group, LLC**  
**5 Harbor Park Drive,**  
**Port Washington, NY 11050**

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER -Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

**DESCRIPTION: Series “Models WS” Single Outswing Steel Doors -LMI**

**APPROVAL DOCUMENT:** Drawing No.24-146 (former 23-081), titled “WS-CO2, WS-CO1 & WS-MO1” Outswing Commercial Steel Doors, sheets 1 through 9 of 9, dated 08/11/17 and last revised on 12/04/2024, prepared by Tilteco Inc., signed and sealed by Walter A. Tillit Jr., P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING: Large Missile Impact Resistant**

**Limitations:**

1. See Design Pressure in sheet **1**. These Single doors are **not** rated for water infiltration requirements, unless protected by overhang/canopy complying w/ FBC requirements.
2. See Mark, USA Locking Hardware per Bill of Materials, sheet 4.

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and series and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises # 23-0726.07** (former **LIF Industries, Inc.**) consists of this page 1 and evidence pages E-1, E-2, E-3, E-4, E-5 & E-6, as well as approval documents mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**

*Ishaq I. Chanda*



**Unified Door and Hardware Group, LLC**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. Evidence submitted under previous approvals**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections (submitted under file below)
2. Drawing No. "16-064, titled "WS-CO2, WS-CO1 & WS-MO1" Outswing Commercial Steel Doors, sheets 1 through 9 of 9, dated 02/10/17, prepared by Tilteco Inc., signed and sealed by Walter A. Tillit Jr., P.E.

**B. TESTS (submitted under file # 16-1018.08)**

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94 (see door approval)  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

Along with marked-up drawings and installation diagram of Single steel doors w/ cylindrical and Mortise locking hardware, prepared by National Certified Testing lab, Inc., Test Report No. **NCTL-110-19221-1**, dated 07/07/16, signed and sealed by Harold E. Rupp, P. E.

(Note: This test report has been revised by addendum letters dated 01/13/17, issued by National Certified Testing lab, signed and sealed by Harold E. Rupp, P.E.)

**C. CALCULATIONS**

1. Anchor Verification Calculations, complying w/ FBC-2014, dated 06-14-16, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit Jr., P. E.

**D. QUALITY ASSURANCE**

1. Miami Dade Department of Regulatory and Economic Resources (RER).

**E. MATERIAL CERTIFICATIONS**

1. Tensile Test per ASTM E08-15A, test report No. **F832.01-106-18**, dated 05/31/16, issued by Intertek/Architectural Testing Laboratory, signed and sealed by Joseph A. Reed, P.E.

**F. STATEMENTS**

1. Statement letter of conformance to FBC 2014(5<sup>th</sup> Edition) and letter of no financial interest, dated 06/28/2016, signed and sealed by Walter A. Tillit Jr., P.E.
2. Statement letter dated DEC 01, 2016, issued by Mark, USA to authorize LIF Industry Inc., the joint test report#NCTL-110-19130-1 (LIF door system/Mark USA locks) to obtain door system NOA approval, signed by George Marks, president.
3. Lab compliance letter, part of the test report.

**G. OTHER**

1. Test proposal # **15-1231R**, dated 09/18/15 approved by RER.

2. Technical Boucher of Mark USA/Alarm lock System. *Ishaq I. Chanda*

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**Ishaq I. Chanda, P.E.**  
**Product Control Unit Supervisor**  
**NOA No. 24-1211.06**  
**Expiration Date: February 23, 2027**  
**Approval Date: January 02, 2025**

**Unified Door and Hardware Group, LLC**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**2. Evidence submitted under previous approval**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections
2. Drawing No. **17-218** (former **16-064**), titled "WS-CO2, WS-CO1 & WS-MO1" Outswing Commercial Steel Doors, sheets 1 through 9 of 9, dated 08/11/17, prepared by Tilteco Inc., signed and sealed by Walter A. Tillit Jr., P.E.

Note: This revision consists of only changes to general notes #1, 4, 5, 10 and 13, in compliance of FBC 2017 edition.

**A. TESTS**

1. None.

**C. CALCULATIONS**

1. None.

**D. QUALITY ASSURANCE**

1. Miami Dade Department of Regulatory and Economic Resources (RER).

**E. MATERIAL CERTIFICATIONS**

1. None.

**F. STATEMENTS**

1. Statement letters of conformance to FBC 2017(**6th** Edition), prepared by Tilteco Inc., dated 08/11/17, signed & sealed by Walter A. Tillit Jr., P. E.
2. Statement letter of general notes revision only, in compliance with FBC 2017 edition, prepared by Tilteco Inc., dated 08/11/17, signed & sealed by Walter A. Tillit Jr., P. E.

**G. OTHER**

1. This NOA revises **NOA # 16-1018.08**, expiring 02/23/2022.

*Ishaq I. Chanda*

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**Ishaq I. Chanda, P.E.**  
**Product Control Unit Supervisor**  
**NOA No. 24-1211.06**  
**Expiration Date: February 23, 2027**  
**Approval Date: January 02, 2025**

**Unified Door and Hardware Group, LLC**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**3. Evidence submitted under previous approval**

**A. DRAWINGS**

1. Drawing No. **20-187** (former **17-1218**), titled “WS-CO2, WS-CO1 & WS-MO1” Outswing Commercial Steel Doors, sheets 1 through 9 of 9, dated 08/11/17 and last revised on 07/24/20, prepared by Tilteco Inc., signed and sealed by Walter A. Tillit Jr., P.E.  
Note: This revision consists of FBC 2020 (7<sup>th</sup> edition) note only.

**B. TESTS**

1. None.

**C. CALCULATIONS**

1. None.

**D. QUALITY ASSURANCE**

1. Miami Dade Department of Regulatory and Economic Resources (RER).

**E. MATERIAL CERTIFICATIONS**

1. None.

**F. STATEMENTS**

1. Statement letters of conformance to FBC 2020(7<sup>th</sup> Edition), prepared by Tilteco Inc., dated 07/24/20, signed & sealed by Walter A. Tillit Jr., P. E.
2. Statement letter of general notes revision only, in compliance with FBC 2020 7<sup>th</sup> edition, prepared by Tilteco Inc., dated 07/24/20, signed & sealed by Walter A. Tillit Jr., P. E.

**G. OTHER**

1. This NOA revises NOA # 17-0830.12, expiring 02/23/2022.

*Ishaq I. Chanda*

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**Ishaq I. Chanda, P.E.**  
**Product Control Unit Supervisor**  
**NOA No. 24-1211.06**  
**Expiration Date: February 23, 2027**  
**Approval Date: January 02, 2025**

**Unified Door and Hardware Group, LLC**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**4. Evidence submitted under previous approval**

**A. DRAWINGS**

1. Drawing No. **20-187** (former **17-1218**), titled “WS-CO2, WS-CO1 & WS-MO1” Outswing Commercial Steel Doors, sheets 1 through 9 of 9, dated 08/11/17 and last revised on 07/24/20, prepared by Tilteco Inc., signed and sealed by Walter A. Tillit Jr., P.E.

**B. TESTS**

1. None

**C. CALCULATIONS**

1. None

**D. QUALITY ASSURANCE**

1. Miami Dade Department of Regulatory and Economic Resources (RER).

**E. MATERIAL CERTIFICATIONS**

1. None.

**F. STATEMENTS**

1. Statement letters of conformance to FBC 2020(7th Edition), prepared by Tilteco Inc., dated 01/12/22, signed & sealed by Walter A. Tillit Jr., P. E.

**G. OTHER**

1. This NOA revises NOA # 17-0830.12, expiring 02/23/2022.

*Ishaq I. Chanda*

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**Ishaq I. Chanda, P.E.**  
**Product Control Unit Supervisor**  
**NOA No. 24-1211.06**  
**Expiration Date: February 23, 2027**  
**Approval Date: January 02, 2025**

**Unified Door and Hardware Group, LLC**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**5. Evidence submitted under previous approval**

**A. DRAWINGS**

1. Drawing No. **23-081** (former **20-187**), titled “WS-CO2, WS-CO1 & WS-MO1” Outswing Commercial Steel Doors, sheets 1 through 9 of 9, dated 08/11/17 and last revised on 07/07/23, prepared by Tilteco Inc., signed and sealed by Walter A. Tillit Jr., P.E.

**B. TESTS**

1. None

**C. CALCULATIONS**

1. None

**D. QUALITY ASSURANCE**

1. Miami Dade Department of Regulatory and Economic Resources (RER).

**E. MATERIAL CERTIFICATIONS**

1. None.

**F. STATEMENTS**

1. Statement letters of conformance to FBC 2023 (**8th** Edition), prepared by Tilteco Inc., dated July 07, 2023, signed & sealed by Walter A. Tillit Jr., P. E
2. Statement letters of conformance to FBC 2020 (**7th** Edition), prepared by Tilteco Inc., dated 01/12/22, signed & sealed by Walter A. Tillit Jr., P. E.(submitted under previous approval)

**G. OTHER**

1. This NOA revises NOA # **22-0125.06**, expiring 02/23/2027.

*Ishaq I. Chanda*

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**Ishaq I. Chanda, P.E.**  
**Product Control Unit Supervisor**  
**NOA No. 24-1211.06**  
**Expiration Date: February 23, 2027**  
**Approval Date: January 02, 2025**

**Unified Door and Hardware Group, LLC**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**6. New Evidence submitted**

**A. DRAWINGS**

1. Drawing No. **24-146** (former **23-081**), titled “WS-CO2, WS-CO1 & WS-MO1” Outswing Commercial Steel Doors, sheets 1 through 9 of 9, dated 08/11/17 and last revised on 12/04/2024, prepared by Tilteco Inc., signed and sealed by Walter A. Tillit Jr., P.E.

**B. TESTS**

1. None

**C. CALCULATIONS**

1. None

**D. QUALITY ASSURANCE**

1. Miami Dade Department of Regulatory and Economic Resources (RER).

**E. MATERIAL CERTIFICATIONS**

1. None.

**F. STATEMENTS**

- 1.
2. Statement letters of conformance to FBC 2023 (**8th** Edition), prepared by Tilteco Inc., dated July 07, 2023, signed & sealed by Walter A. Tillit Jr., P. E. (submitted under **23-0726.07**)
3. Statement Letter issued by LIF, Industries of 100% owned by Unified Door and Hardware Group, LLC and requested Name Change, signed by Philips Hymowitz, Exec. VP & Council, LIF Ind., LLC.
4. Agreement of merger dated DEC 01, 2024 between LIF Industries, LLC, NY and Unified Door & Hardware, LLC, N.J. signed by Richard J. Tilley, VP (LIF) and Richard J. Tilley, VP (Unified DOOR & Hardware Grp).
5. Statement letter dated DEC 20, 2024, issued by Mark, USA to authorize Unified Door & Hardware Group, LLC., the same joint test report#NCTL-110-19130-1 (LIF door system/Mark USA locks) to obtain door system NOA approval, signed by Jim Moran, V.P. Mechanical Engineering, Mark, USA.

**G. OTHER**

1. This NOA revises # **23-0726.07** (former **LIF Industries, Inc.**), expiring 02/23/2027.

*Ishaq I. Chanda*

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**Ishaq I. Chanda, P.E.**  
**Product Control Unit Supervisor**  
**NOA No. 24-1211.06**  
**Expiration Date: February 23, 2027**  
**Approval Date: January 02, 2025**

**GENERAL NOTES AND SPECIFICATIONS:**

1. MODELS WS-CO2, WS-CO1 & WS-MO1 OUTSWING COMMERCIAL STEEL DOOR SHOWN ON THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) HAS BEEN VERIFIED FOR CODE COMPLIANCE IN ACCORDANCE WITH THE 2020 (7th EDITION) AND 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 SECTION 1620 OF THE ABOVE MENTIONED CODE, USING ASCE 7-16 (FBC 2020) AND ASCE 7-22 (FBC 2023) AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED BELOW.

IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE 7-16 AND 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 SHALL BE AS INDICATED BELOW.

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 NATIONAL CERTIFIED TESTING LAB. & AS PER INTERTEK LAB. REPORTS #NCTL-110-19221-1 & F8382.01-106-18 RESPECTIVELY, AND AS PER SUBMITTED STRUCTURAL CALCULATIONS, PERFORMED AS PER SECTION 1616 OF THE FLORIDA BUILDING CODE.

DESIGN PRESSURE RATING: +90.0, -90.0 psf. (SEE GENERAL NOTES 7 & 8)

2. ALL COMPONENTS SHALL BE AS SPECIFIED ON APPLICABLE DETAIL SHEETS AND AT BILL OF MATERIALS (SHEET 4) 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.

6. ALL ANCHORS FOR DOOR FRAME CONNECTIONS TO EXISTING STRUCTURE SHALL BE AS SPECIFIED ON SHEET 7 OF THIS DRAWING. MAXIMUM ANCHORS SPACING SHALL BE AS PER ELEVATIONS ON SHEET 2 OF THIS DRAWING.

7. THESE DOORS WILL NOT REQUIRE A HURRICANE PROTECTION DEVICE.

8. THESE DOORS WAS TESTED FOR AIR INFILTRATION, BUT NOT FOR WATER INFILTRATION, THEREFORE DESIGN PRESSURE RATING INDICATED ON GENERAL NOTE 1 IS APPROVED FOR WHERE WATER INFILTRATION REQUIREMENT IS NO NEEDED. WHERE WATER INFILTRATION IS NEEDED, DESIGN PRESSURE RATING INDICATED ON GENERAL NOTE 1 IS APPROVED ONLY WHEN CANOPY IS PROVIDED IMMEDIATELY ABOVE THE DOOR LOCATION COVERING THE ENTIRE WIDTH OF DOOR AND PROJECTING OUT A DISTANCE EQUAL OR LARGER THAN THE DOORS HEIGHT. NOT APPROVED IF THE ABOVE CONDITION IS NOT COMPLIED WITH.

9. PROVIDE SPECIFIED SEALANT AT ALL DOOR FRAME & THRESHOLD COMPONENTS INDICATED ON THIS DRAWING.

10. WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERTY TO TRANSFER LOADS TO THE BUILDING STRUCTURE AND, MUST BE SOUTHERN PINE W/ G=0.55, AND SHALL COMPLY W/ SECTIONS 2411.3.3.3; 2326 OF THE FLORIDA BUILDING CODE.

11. PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO SUSTAIN THE SUPERIMPOSED LOADS TRANSFERRED BY THESE DOORS.

12. (a) THIS PRODUCT APPROVAL DOCUMENT (P.A.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.A.D.

(b) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT, BASED ON THIS P.A.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 APPROVAL DOCUMENT (P.A.D.) WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

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

13. 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.

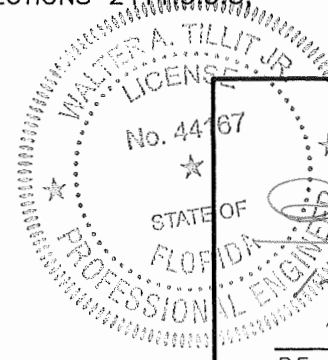
**PRODUCT REVISED**  
as complying with the Florida Building Code

NOA-No. 24-1211.06

Expiration Date 02/23/2027

By Ishag I. Chande  
Miami-Dade Product Control

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



P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

©2024 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  
CA-0006719  
WALTER A. TILLIT Jr. P.E.  
FLORIDA Lic. # 44167

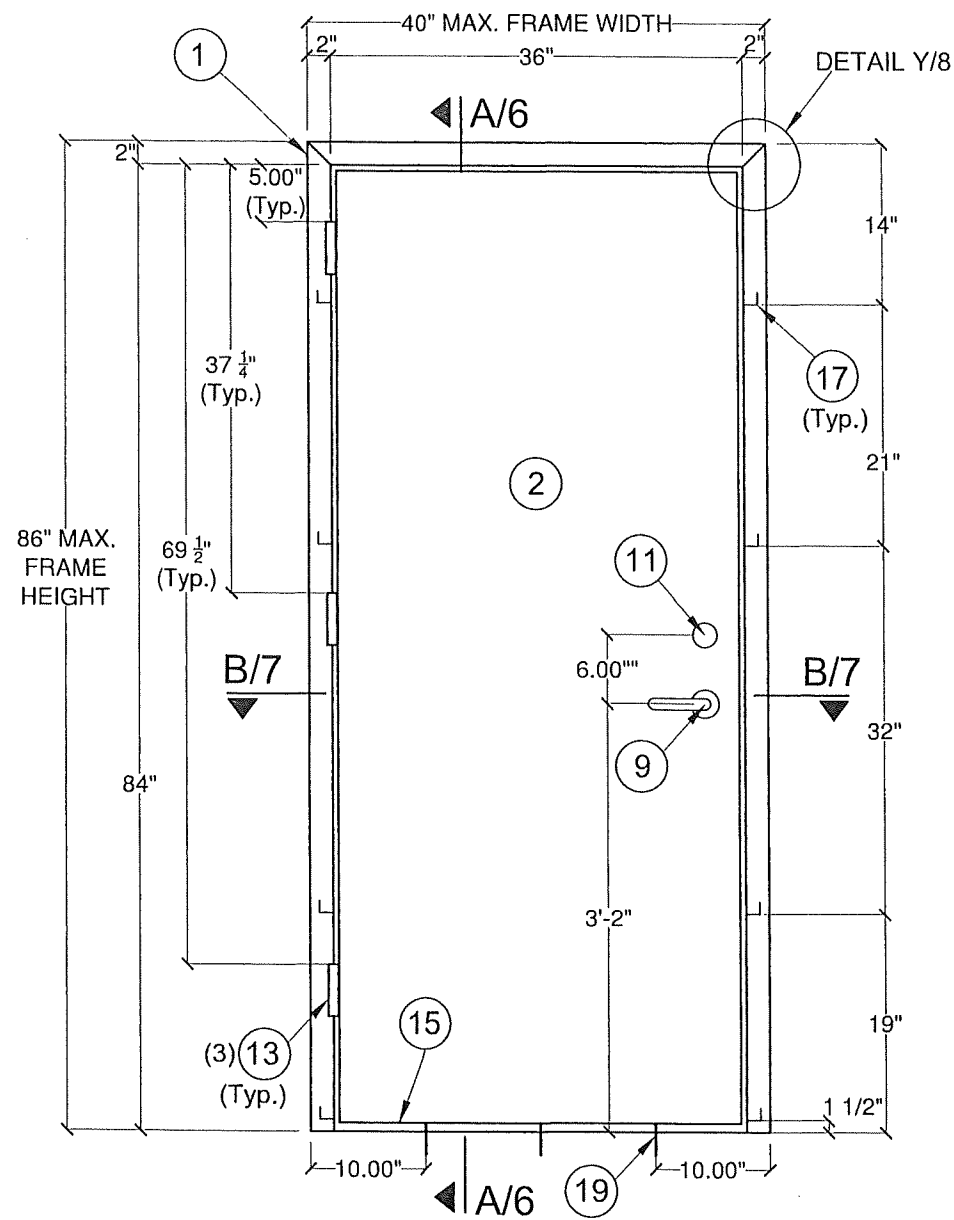
MODELS WS-CO2, WS-CO1 & WS-MO1  
OUTSWING COMMERCIAL STEEL DOORS  
UNIFIED DOOR AND HARDWARE GROUP, LLC.  
d/b/a LIF INDUSTRIES  
5 HARBOR PARK DRIVE  
PORT WASHINGTON, NY 11050

W.H.  
DRAWN BY:  
12/4/2024  
DATE:  
**24-146**  
DRAWING No.

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-081	12/4/24	3		
2			4		

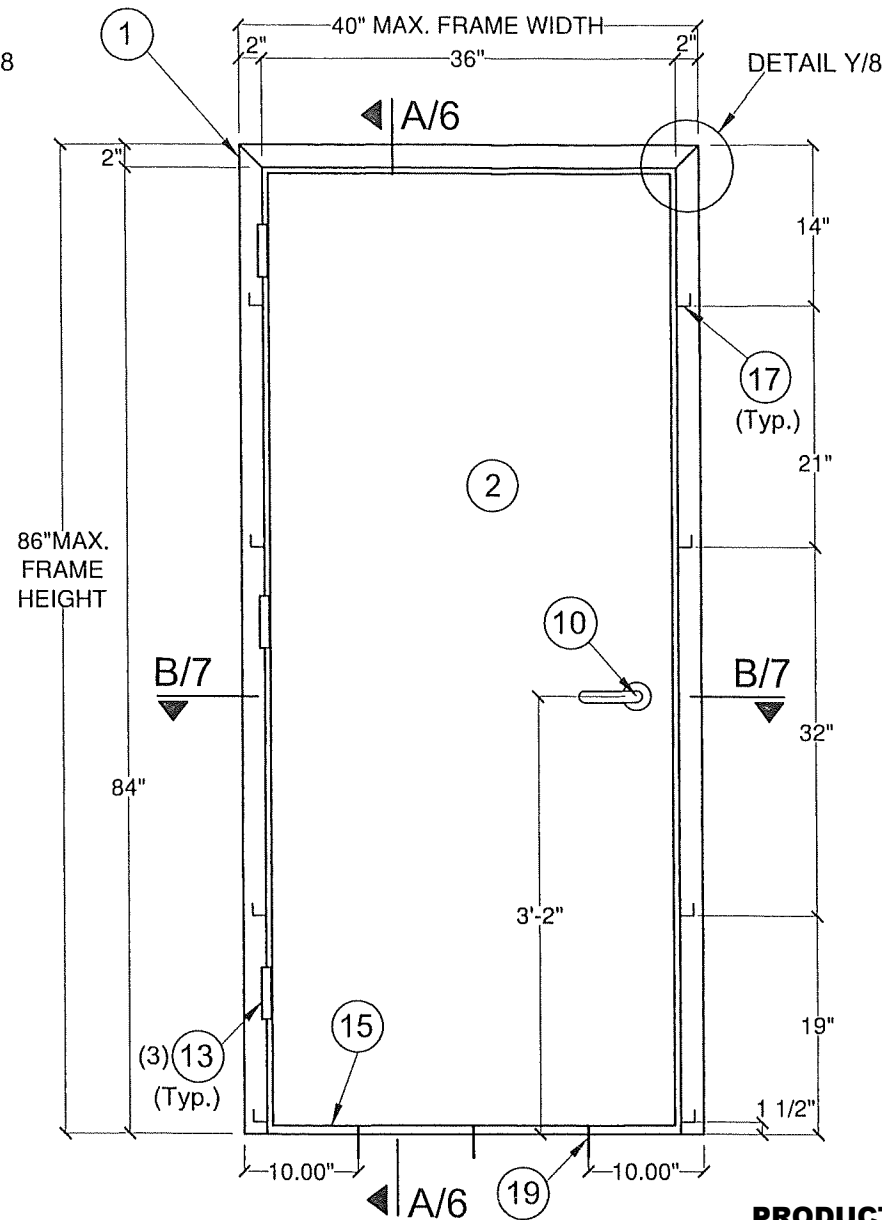
SHEET 1 OF 9





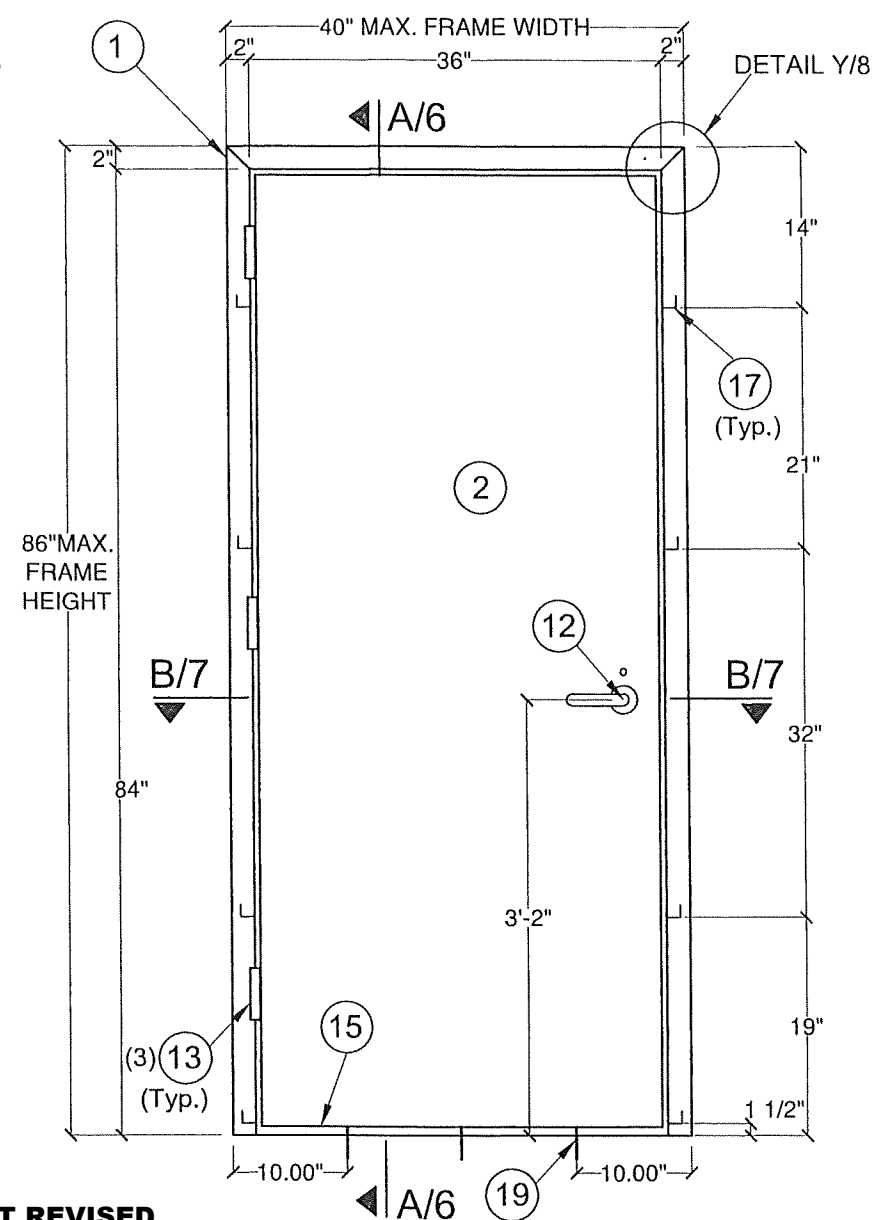
**Model WS-C02:**

⑨ Lock - MARKS-USA175 Series Cylindrical Lock with ⑪ 130 Series Deadbolt



**Model Set WS-C01:**

⑩ Lock - MARKS USA 195 Series Cylindrical Lockset



**Model WS-M01:**

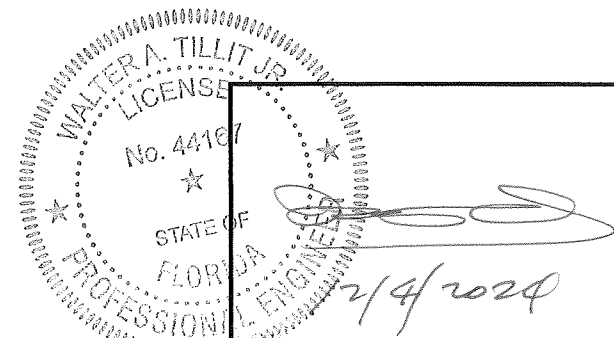
⑫ Lock - MARKS USA 5 Series Mortise Lockset with Deadbolt

**PRODUCT REVISED**  
as complying with the Florida Building Code  
NOA-No. 24-1211.06  
Expiration Date 02/23/2027  
By Ishag I. Chanda  
Miami-Dade Product Control

**TYPICAL EXTERIOR ELEVATIONS**

Scale 3/4" = 1'-0"

**A.S.D. DESIGN LOAD +90.0, -90.0 psf**



P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

©2024 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  
CA-0006719  
WALTER A. TILLIT Jr., P.E.  
FLORIDA Lic. # 44167

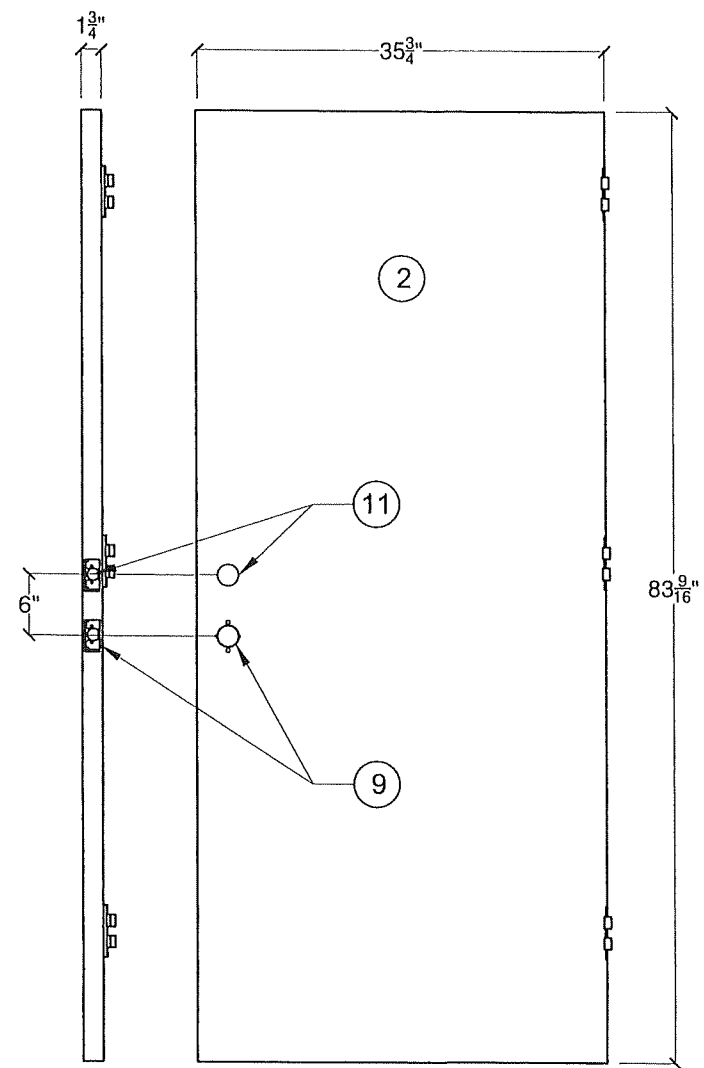
MODELS WS-C02, WS-C01 & WS-M01  
OUTSWING COMMERCIAL STEEL DOORS  
UNIFIED DOOR AND HARDWARE GROUP, LLC.  
d/b/a LIF INDUSTRIES  
5 HARBOR PARK DRIVE  
PORT WASHINGTON, NY 11050

W.H.  
DRAWN BY:  
12/4/2024  
DATE:

**24-146**  
DRAWING No.

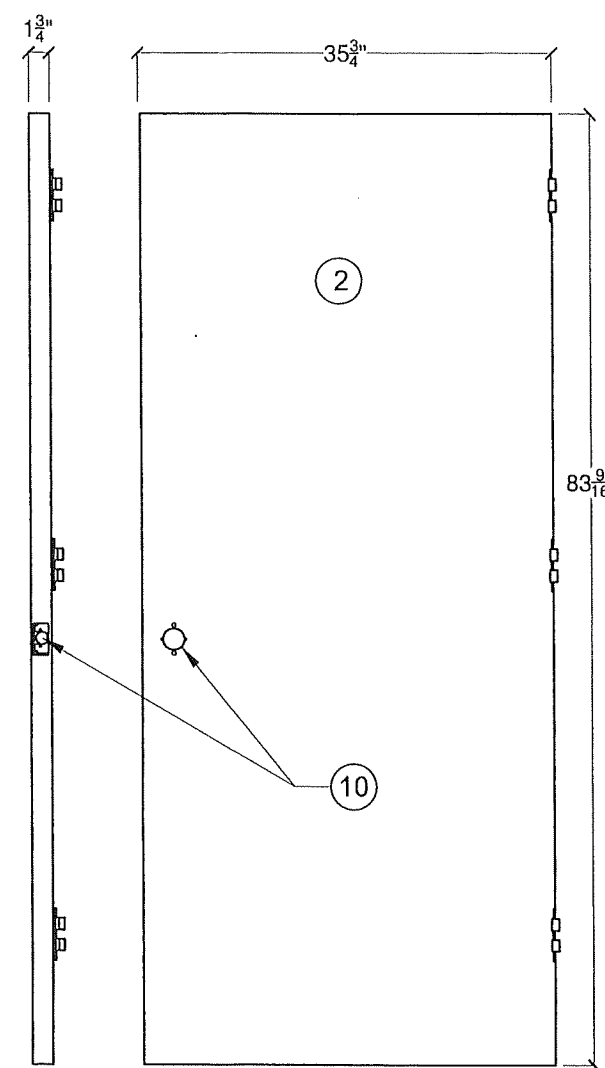
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-081	12/4/24	3		
2			4		

SHEET 2 OF 9



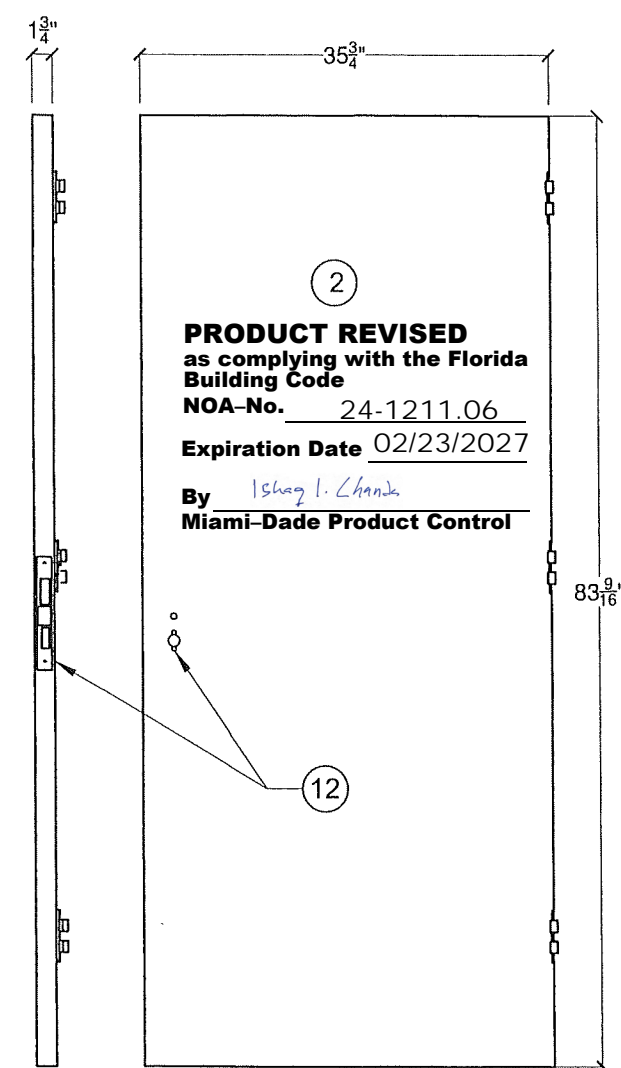
**Model WS-C02:**

⑨ Lock -MARKS-USA175 Series Cylindrical Lock with ⑪ 130 Series Deadbolt



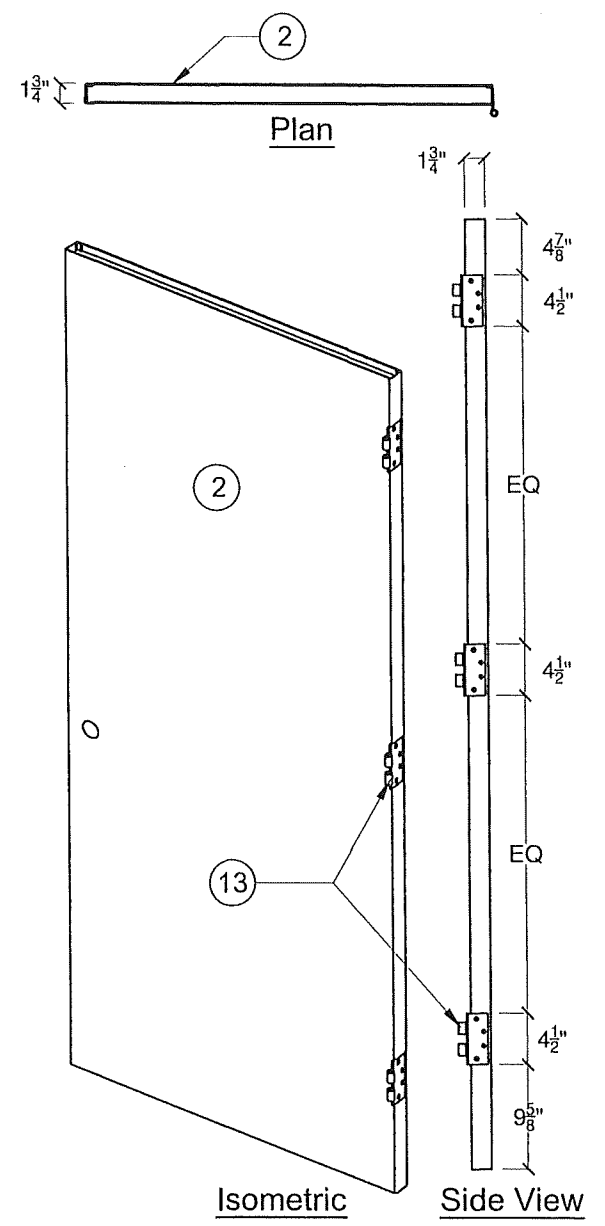
**Model Set WS-C01:**

⑩ Lock - MARKS USA 195 Series Cylindrical Lockset



**Model WS-M01:**

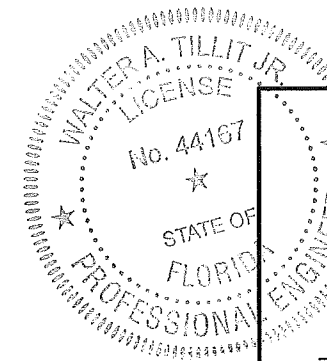
⑫ Lock - MARKS USA 5 Series Mortise Lockset with Deadbolt



**Isometric**

**Side View**

**HARDWARE INSTALLATION DETAILS AT DOOR PANEL**



*[Signature]*  
12/4/2024  
P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

©2024 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  
CA-0006719  
WALTER A. TILLIT Jr., P.E.  
FLORIDA Lic. # 44167

MODELS WS-C02, WS-C01 & WS-M01  
OUTSWING COMMERCIAL STEEL DOORS  
UNIFIED DOOR AND HARDWARE GROUP, LLC.  
d/b/a LIF INDUSTRIES  
5 HARBOR PARK DRIVE  
PORT WASHINGTON, NY 11050

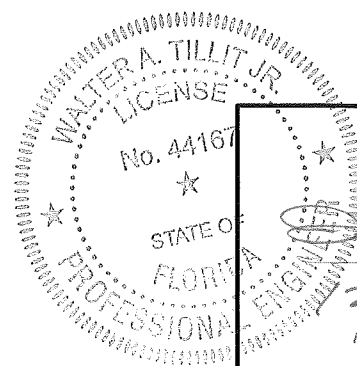
W.H.  
DRAWN BY:  
12/4/2024  
DATE:  
**24-146**  
DRAWING No.  
SHEET 3 OF 9

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-081	12/4/24	3		
2			4		

## BILL OF MATERIALS

ITEM	DESCRIPTION	MATERIAL	REMARKS
①	HM Welded Frame	16Ga (0.057") A-40 Steel, Fu= 55.2Ksi, Fy= 49.2Ksi	5 3/4" Minimum Jamb Depth x 2" Face
②	HM Door, Lockseam, Honeycomb, Flush	18Ga (0.048") A-40 Steel @ Skin	1 3/4" Thick. w/ Paper Honeycomb Core
③	Top and Bottom Channel	16Ga (0.057") A-40 Steel	Spot welded to Door skins @ 4" o.c.
④	Strike Box for 4 7/8" Strike (Frame) w/ Lock Face Plate	16Ga (0.057") A-40 Steel	Spot welded to Strike Jamb; & w/ (2) #12-24 MS
⑤	Tab for Deadlock Strike Reinf. (Frame)	11Ga (0.119") Steel	Zinc plated w/ (4) #8-32 Screws
⑥	Strike Box for 2 3/4" Strike (Frame) w/ Lock Face Plate	16Ga (0.057") A-40 Steel	Spot welded to Strike Jamb; & w/ (2) #8-32 MS
⑦	Lock Box for Cyl./DL Reinforcements (Door)	16Ga (0.057") A-40 Steel	Spot welded to Lock edge of Door; & w/ (2) #8-32 MS
⑧	Lock Box for Mortise Lock (Door)	14Ga (0.075") A-40 Steel	Spot welded to Lock edge of Door; & w/#12-24 MS
⑨	Marks USA series 175 Cyl. Lockset, Grade 2	N/A	
⑩	Marks USA series 195 Cyl. Lockset, Grade 1	N/A	
⑪	Marks USA series 130 Deadbolt, Grade 1	N/A	
⑫	Marks USA series 5 Mortise Lock w/ Deadbolt, Grade 1	N/A	
⑬	Hinges 4.5" x 4.5" Std x 1/2"	Steel (0.134")	Finish may vary, w/ (8)#12-24 x 1/2"MS (3 per jamb). See Sht. 9
⑭	Hinge Reinforcements	7Ga (0.179") Steel	Zinc plated, 3 each per Door and Frame
⑮	Threshold National Guard Products #950 NA	6063-T6 Aluminum Alloy	0.078" Thk. w/ neoprene bulb
⑯	Weatherstrip National Guard Products #120 NA	Aluminum / Neoprene	Secured with (2) #6 x 3/4" SMS screws @ 4" o.c.
⑰	Z-Clip Anchors	16Ga (0.057") A-40 Steel	4 per Jamb
⑱	Caulking: GE Silicone II	Silicone	Exterior Frame Sealant
⑲	Threshold Anchor	Case Hardened Steel	1/4"Ø Ultracon by Elco Construction Products , 1 3/4" Min. Emb. & 3" Min. E.D @ f'c=3ksi Concrete Sill

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 24-1211.06  
Expiration Date 02/23/2027  
By Ishag I. Chanda  
Miami-Dade Product Control



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FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

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

MODELS WS-CO2, WS-CO1 & WS-MO1  
OUTSWING COMMERCIAL STEEL DOORS

UNIFIED DOOR AND HARDWARE GROUP, LLC.  
d/b/a LIF INDUSTRIES  
5 HARBOR PARK DRIVE  
PORT WASHINGTON, NY 11050

W.H.  
DRAWN BY:

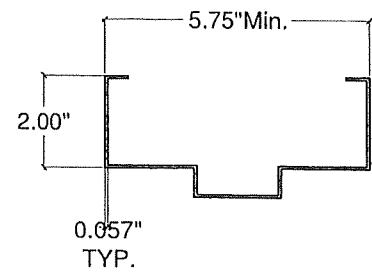
12/4/2024  
DATE:

**24-146**

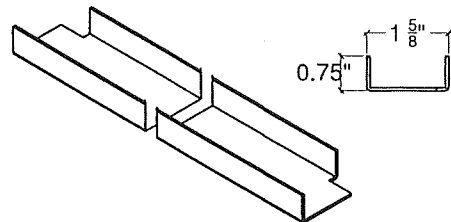
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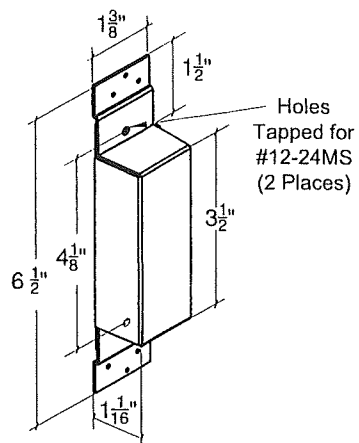
SHEET 4 OF 9



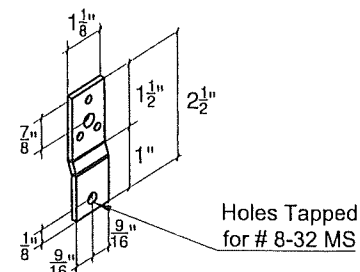
① **HM Frame Welded**  
(16 Gage)



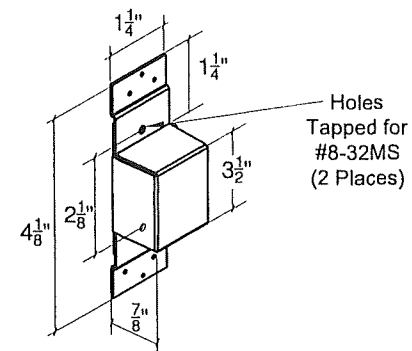
③ **Top and Bottom Channel**  
(16 Gage)



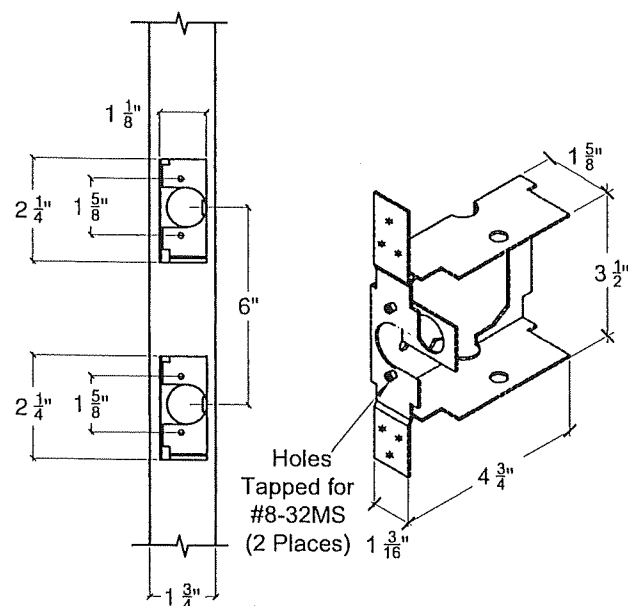
④ **Strike Box for 4 7/8" Strike**  
**w/ Lock Face Plate**  
(16 Gage)



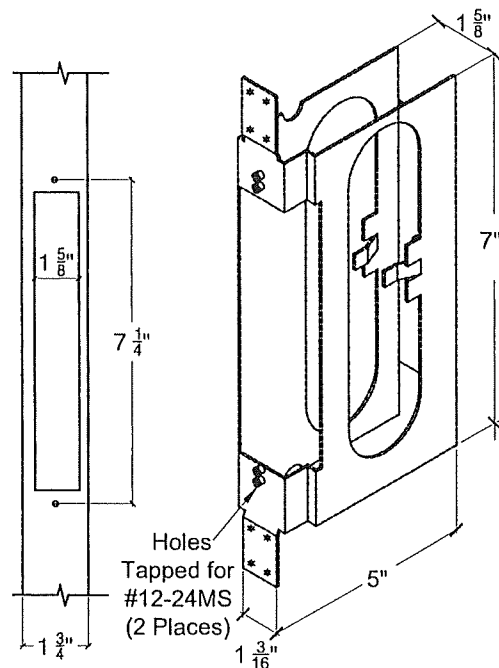
⑤ **Tabs for Deadlock**  
(11 Gage)



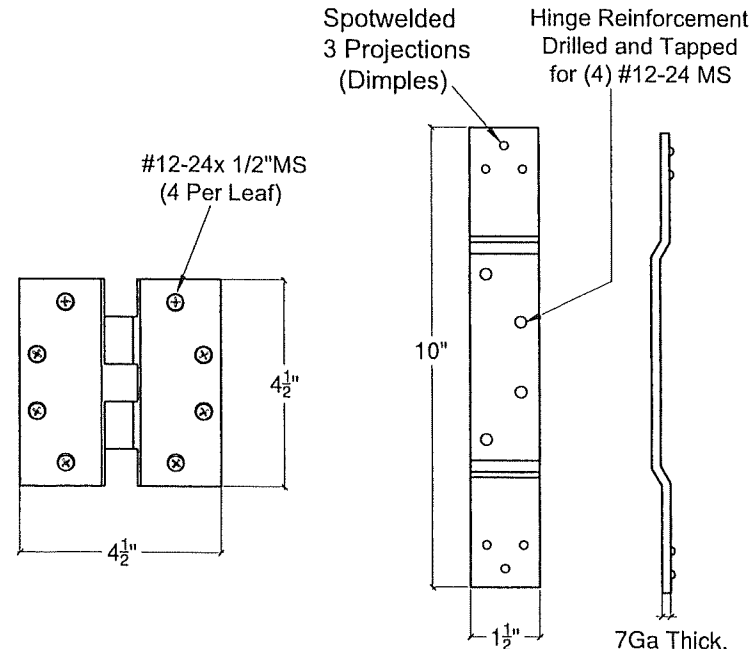
⑥ **Strike Box for 2 3/4" Strike**  
**w/ Lock Face Plate**  
(16 Gage)



⑦ **Lock Box**  
**For Cylindrical Lock and Deadlock**

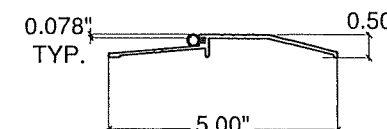


⑧ **Lock Box**  
**For Mortise Lock**

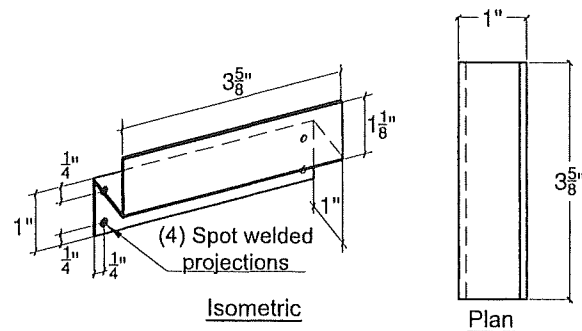


⑬ **Hinge**  
0.134" thick

⑭ **Hinge Reinforcement**



⑮ **Threshold #950 NA**  
**w/ Neoprene Bulb**



⑰ **Z-Clip Anchor**  
(Min. 16Ga A-40 Steel)

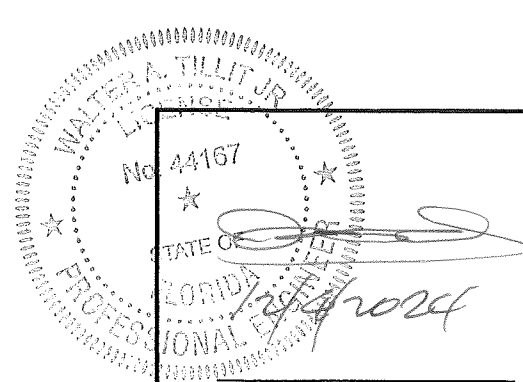
## COMPONENTS

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NOA-No. 24-1211.06

Expiration Date 02/23/2027

By *Ishag I. Chank*  
Miami-Dade Product Control



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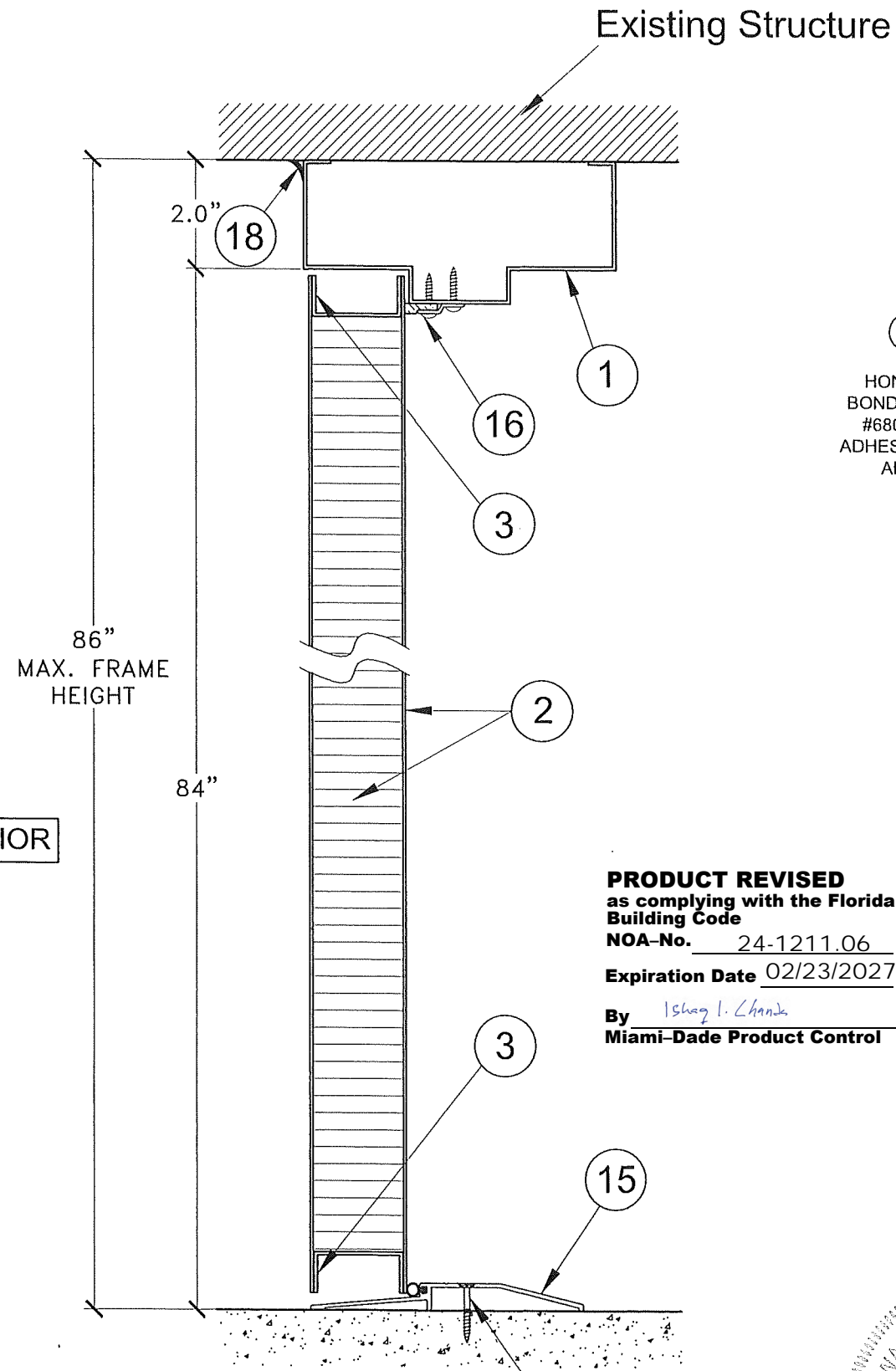
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TILLIT TESTING & ENGINEERING COMPANY  
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PORT WASHINGTON, NY 11050

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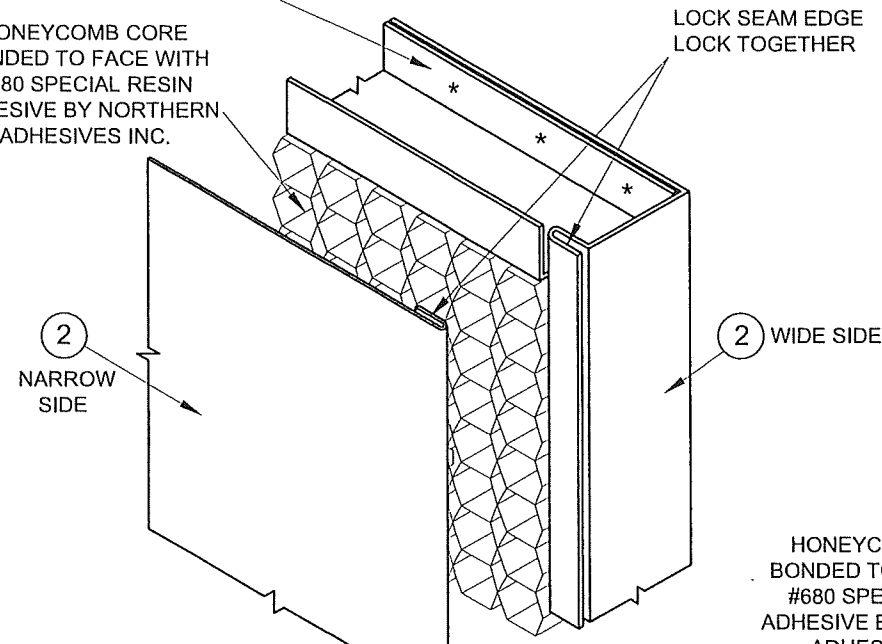
SHEET 5 OF 9



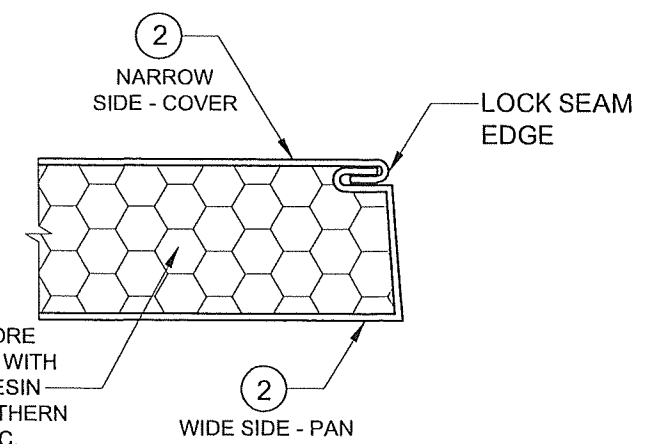
**Section A-A**

Scale 3/4" = 1'-0"

③ SPOT WELDED TO ② @ 4" O.C.  
 HONEYCOMB CORE BONDED TO FACE WITH #680 SPECIAL RESIN ADHESIVE BY NORTHERN ADHESIVES INC.



**Isometric**

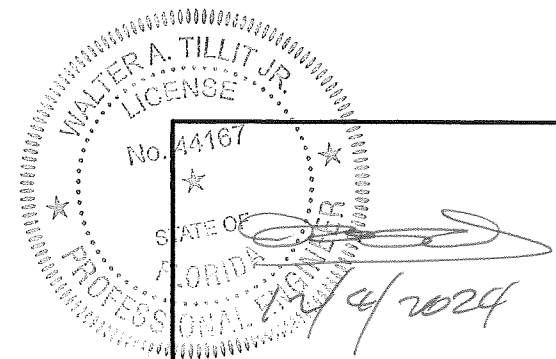


**Section through Edge Seam**

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 Miami-Dade Product Control

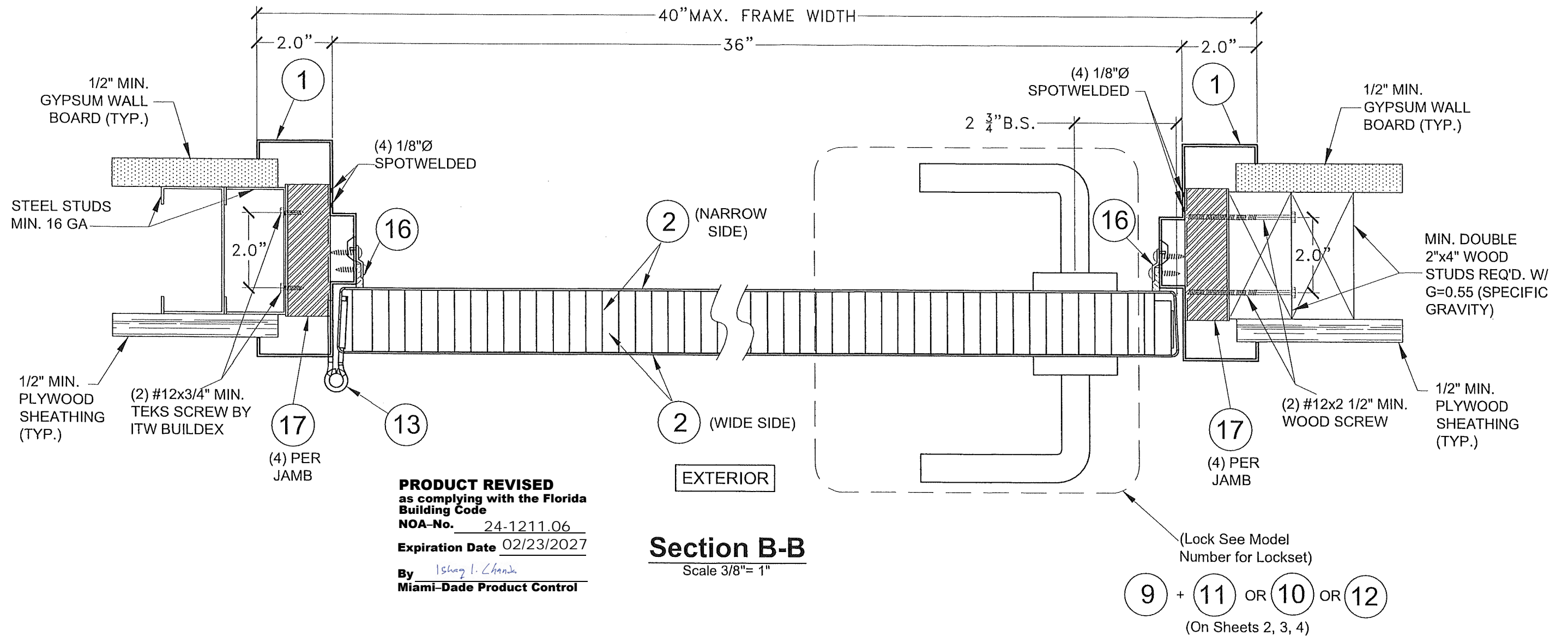
**DOOR PANEL DETAIL**

Scale 6" = 1'-0"



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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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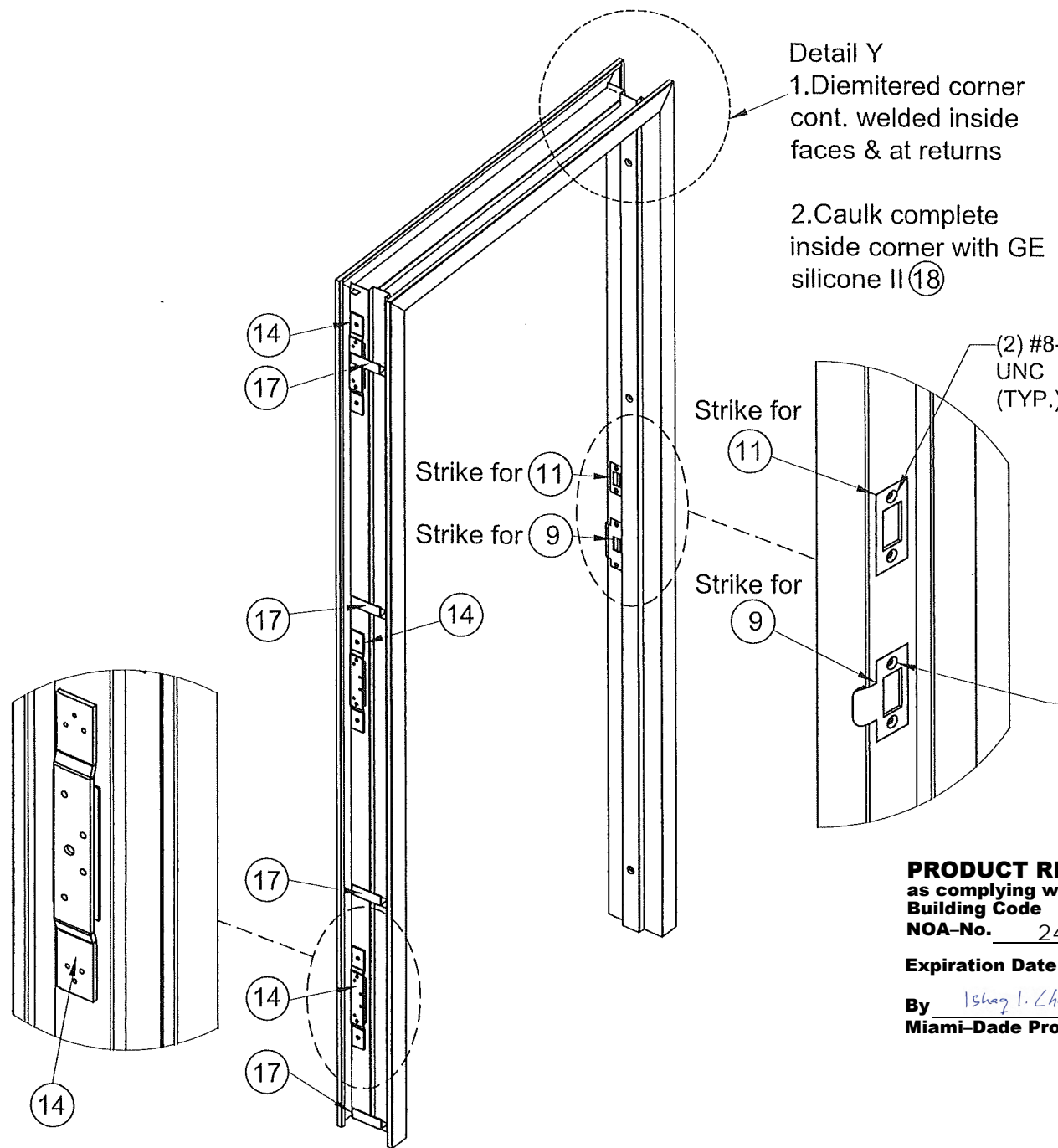


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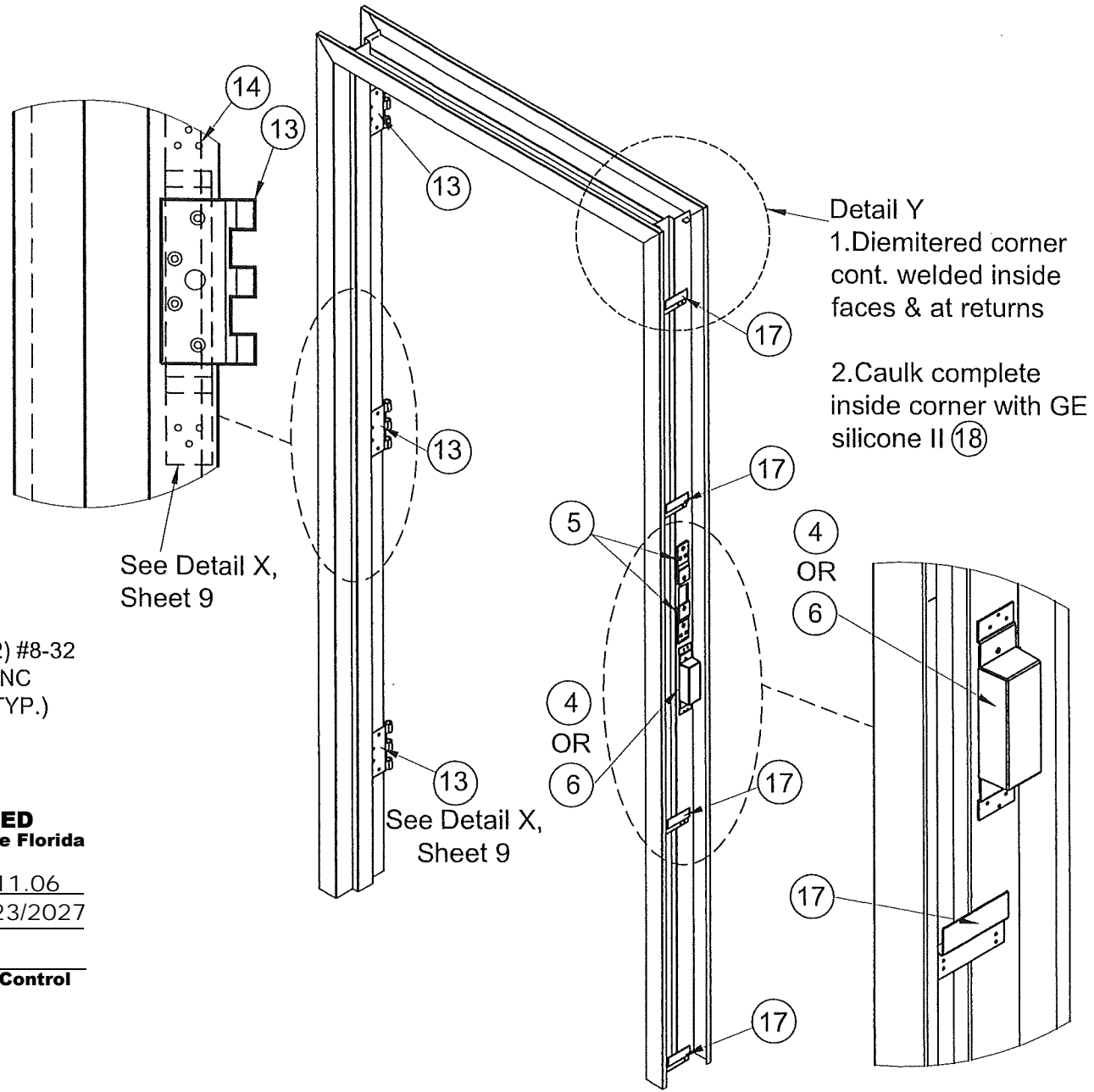
**Section B-B**  
 Scale 3/8" = 1"

WALTER A. TILLIT JR.  
 LICENSED PROFESSIONAL ENGINEER  
 No. 44167  
 STATE OF FLORIDA  
 P.E. SEAL/SIGNATURE/DATE  
 12/4/2024

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					SHEET 7 OF 9



**Typical Hinges Reinforcement Detail For Frames  
"WS-C01", "WS-C02", "WS-M01" w/ Anchor (17)**

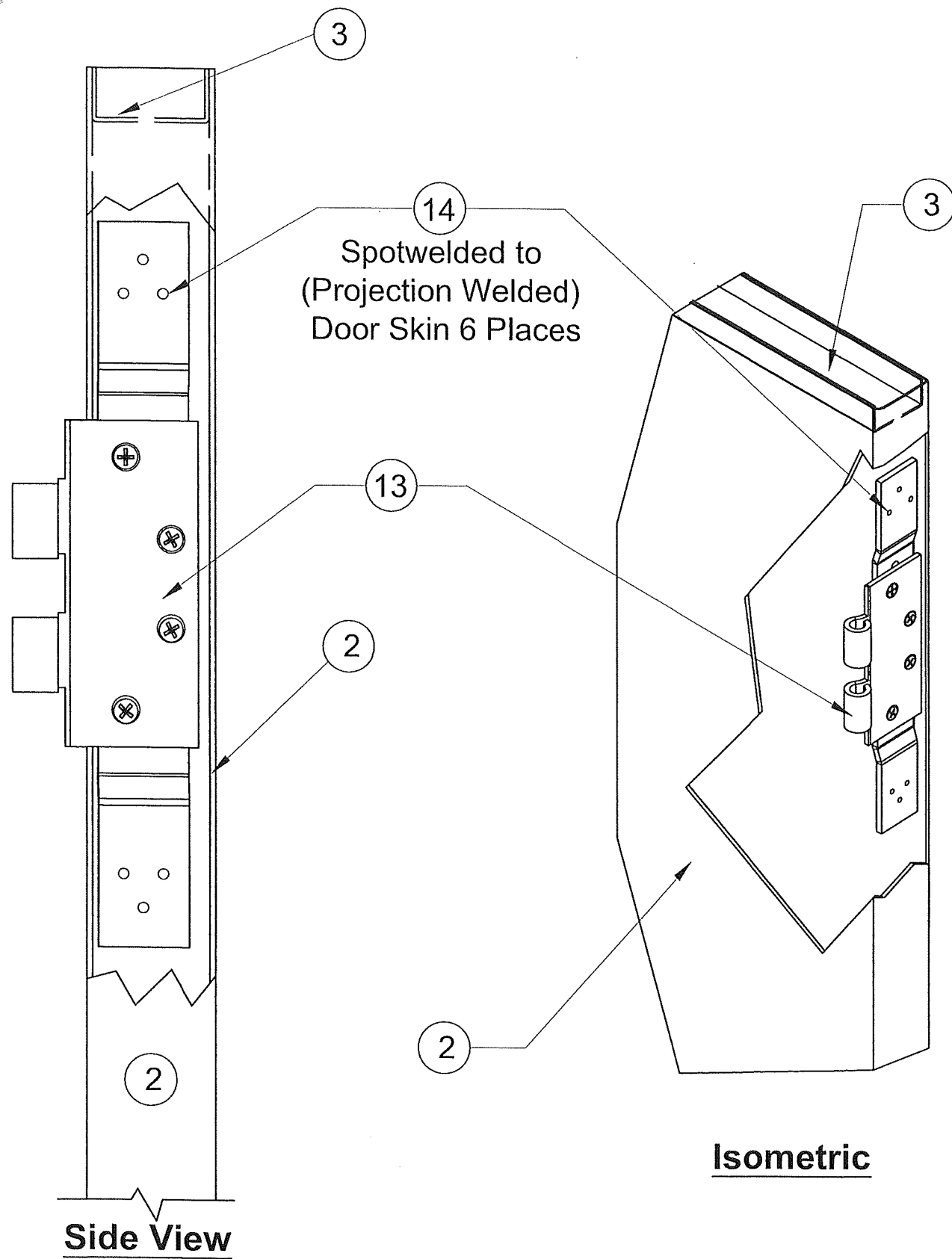


**Typical Strike Box Detail For Frames  
"WS-C01", "WS-C02", "WS-M01" w/ Anchor (17)**

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Miami-Dade Product Control

WALTER A. TILLIT JR.  
LICENSE  
No. 44167  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
*[Signature]*  
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					SHEET 8 OF 9



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 Miami-Dade Product Control

**Typical Hinge Reinforcement Detail X For  
 Doors "WS-C01", "WS-C02", "WS-M01"**

WALTER A. TILLIT JR.  
 LICENSE  
 No. 44167  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER  
 12/4/2024  
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					SHEET 9 OF 9