



MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/building

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

NOTICE OF ACCEPTANCE (NOA)

Cross Aluminum Products, Inc.
1770 Mayflower Road
Niles, MI 49120

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 "FLT-400 (Thermally Broken)" Outswing Glazed Aluminum Door - L.M.I.

APPROVAL DOCUMENT: Drawing No. **1862**, titled "FLT-400 Thermal Aluminum Glazed Impact Ou-Swing Door", sheets 1 through 11 of 11, dated 04/11/13, with revision **B1** dated 10/13/22, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, 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 and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/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.

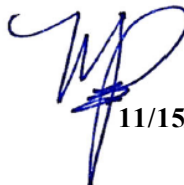
ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

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 and renews** NOA No. **20-0623.15** and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**




11/15/22

NOA No. 22-1027.07
Expiration Date: September 26, 2028
Approval Date: November 23, 2022
Page 1

Cross Aluminum Products, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under NOA's No. 14-0428.01 and 13-0624.05)
2. Drawing No. **1862**, titled "FLT-400 Thermal Aluminum Glazed Impact Out-Swing Door", sheets 1 through 11 of 11, dated 04/11/13, with revision **A1** dated 12/14/17, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.
(Submitted under NOA No. 18-0110.07)

B. TESTS

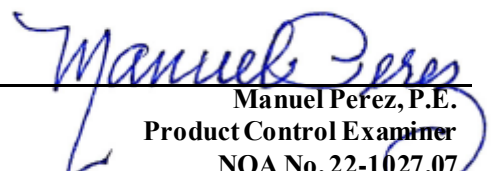
1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
along with marked-up drawings and installation diagram of an aluminum outswing glazed/opaque entrance door, prepared by Architectural Testing, Inc. Test Report No. **C7190.01-602-18**, dated 06/03/13, signed and sealed by Shawn G. Collins, P.E.
Note: Clarification letter of SVR panic engagement, dated 08/28/13, issued by Architectural Testing, Inc., signed by John Bordagaray, Director, ATI.
(Submitted under NOA's No. 14-0428.01 and 13-0624.05)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 6th Edition (2017)**, dated 12/14/17, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.
(Submitted under NOA No. 18-0110.07)
2. Glazing complies with **ASTM E1300-02 & 04**

D. QUALITY ASSURANCE

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


Manuel Perez, P.E.
Product Control Examiner
NOA No. 22-1027.07
Expiration Date: September 26, 2028
Approval Date: November 23, 2022

Cross Aluminum Products, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's (CONTINUED)

E. MATERIAL CERTIFICATIONS

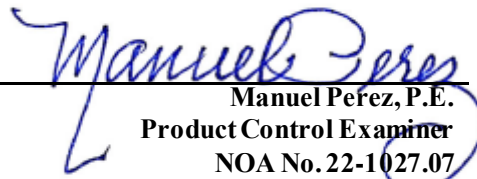
1. Notice of Acceptance No. **12-1231.09** issued to **Eastman Chemical Company (MA)** for their "**Saflex HP Clear or Color Glass Interlayers**" dated 03/28/13, expiring on 04/14/18.
2. Notice of Acceptance No. **16-1129.05** issued to Dyplast Products, LLC, (Former Apache Product Co.) for "E and R Board Expanded Polystyrene Rigid Foam Insulation ", dated 01/19/17 and expiring on 01/11/22.
3. Test report # 61261.01-106-18 dated 01/04/06, issued by Architectural Testing, Inc. for Polyamide I-strut per ASTM D-2843 and ASTM D635, issued to Technoform Group.
4. Tensile test report # ETC-07-1043-2008.0 dated 09/18/07, issued by ETC Laboratories for Strut material, issued to Technoform Group

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 7th Edition (2020)**, dated 06/04/20, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.
(Submitted under NOA No. 20-0623.15)
2. Statement letter of conformance, complying with **FBC 5th Edition (2014)**, and of no financial interest, dated 04/14/14, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.
(Submitted under NOA No. 17-0713.19)
3. Lab. compliance as part of the above referenced test report.
(Submitted under NOA's No. 14-0428.01 and 13-0624.05)

G. OTHERS

1. Notice of Acceptance No. **18-0110.07**, issued to Cross Aluminum Products, Inc., for their Series FLT400 Aluminum Outswing Glazed Doors (Thermally Broken) – L.M.I., approved on 03/08/18 and expiring on 09/26/23.


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 22-1027.07
Expiration Date: September 26, 2028
Approval Date: November 23, 2022

Cross Aluminum Products, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **1862**, titled “FLT-400 Thermal Aluminum Glazed Impact Out-Swing Door”, sheets 1 through 11 of 11, dated 04/11/13, with revision **B1** dated 10/13/22, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, 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

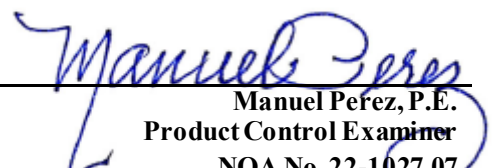
1. Notice of Acceptance No. **20-0622.02** issued to **Eastman Chemical Company (MA)** for their “**Saflex HP Clear or Color Glass Interlayers**” dated 08/06/20, expiring on 04/14/23.
2. Notice of Acceptance No. **22-0627.04** issued to Kingspan Insulation, LLC, (Formerly Dyplast Products, LLC) for “E and R Board Expanded Polystyrene Rigid Foam Insulation”, dated 07/21/22, expiring on 01/11/27.

F. STATEMENTS

1. Statement letter dated October 13, 2022, NOA drawings and testing have been reviewed to the current **FBC 7th Edition (2020)** and found compliant and that no change to existing NOA documents were required for renewal, prepared by W. W. Schaefer Engineering & Consulting, P.A. and signed by Warren W. Schaefer, P.E.
2. Statement letter dated October 11, 2022, requesting renewal with no change, issued by Cross-Aluminum Products, Inc., signed by Joshua Leets, Plant Engineer

G. OTHERS

1. Notice of Acceptance No. **20-0623.15**, issued to Cross Aluminum Products, Inc., for their Series FLT400 Aluminum Outswing Glazed Door (Thermally Broken) – L.M.I., approved on 09/03/20 and expiring on 09/26/23.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 22-1027.07
Expiration Date: September 26, 2028
Approval Date: November 23, 2022

1. THIS PRODUCT HAS BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT PRODUCTS.
5. THIS PRODUCT HAS BEEN DESIGNED IN ACCORDANCE WITH AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THIS PRODUCT.
7. ALL ANCHORS SECURING PRODUCT FRAMES TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF $K_d = 0.85$ MAY BE APPLIED PER THE ASCE-7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR $C_d = 1.6$ WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE.

PANEL TYPE	HARDWARE REQUIRED
	DOOR WITH LOCK OPTION 1
ACTIVE PANEL	3-POINT PANIC LOCK DEVICE (ITEM 31)
INACTIVE PANEL	3-POINT PANIC LOCK DEVICE (ITEM 31)
	DOOR WITH LOCK OPTION 2
ACTIVE PANEL	DEAD BOLT (ITEM 35)
	PASSAGE LOCK (ITEM 36)
	TOP & BOTTOM SURFACE BOLTS (ITEM 33)
INACTIVE PANEL	TOP & BOTTOM SURFACE BOLTS (ITEM 33)
	TOP & BOTTOM FLUSH BOLTS (ITEM 34)
	DOOR WITH LOCK OPTION 3
ACTIVE PANEL	2-POINT PANIC LOCK DEVICE (ITEM 37)
	TOP & BOTTOM SURFACE BOLTS (ITEM 33)
INACTIVE PANEL	TOP & BOTTOM SURFACE BOLTS (ITEM 33)

NOTES:

1. SEE PARTS LIST ON SHEET 11 FOR DESCRIPTION OF LOCK ITEMS.
2. ALL MANUAL FLUSH &/OR SURFACE LOCK BOLTS SHALL BE ENGAGED UPON A BUILDING LOCK-DOWN &/OR IN THE EVENT OF A SEVERE STORM THREAT

MAX. FRAME WIDTH (IN.)	MAX. FRAME HEIGHT (IN.)	ALLOWABLE PRESSURE	
		POSITIVE (PSF)	NEGATIVE (PSF)
DOUBLE DOOR			
91 1/2	97 3/8	60.0	60.0
81 3/8	97 3/8	(1) 67.5	(1) 67.5
73 1/4	97 3/8	(1) 75.0	(1) 75.0
SINGLE DOOR			
47 5/8	97 3/8	60.0	60.0
42 3/8	97 3/8	(1) 67.5	(1) 67.5
38 1/8	97 3/8	(1) 75.0	(1) 75.0

(1) PRESSURES HIGHER THAN ± 60 PSF ARE ONLY APPLICABLE WHEN LOCK OPTION 2 &/OR 3 IS USED. WHEN LOCK OPTION 1 IS USED, ALLOWABLE PRESSURE MAY NOT EXCEED ± 60 PSF REGARDLESS OF DOOR SIZE.

HINGES ARE NOT SHOWN IN THE ELEVATION VIEWS DUE TO THE CHOICE OF THEM BEING CONTINUOUS OR INDIVIDUAL BUTT HINGES. WHEN BUTT HINGES ARE USED, THERE SHALL BE A TOTAL OF 4 WITH EACH DOOR PANEL POSITIONED 7 5/8" FROM BOTH TOP & BOTTOM TO HINGE CENTERLINE & EQUALLY SPACE BETWEEN. SEE APPLICABLE SECTIONS & PARTS LIST FOR ALL HINGE DETAIL.

NOTE: THESE DOOR UNITS ARE NOT APPROVED FOR USE WHERE WATER INFILTRATION RESISTANCE IS REQUIRED BY THE DOOR. UNLESS UNITS ARE INSTALLED IN NON-HABITABLE AREAS WHERE THE UNIT & THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION, UNITS SHALL BE INSTALLED ONLY AT LOCATIONS PROTECTED BY A CANOPY OR OVERHANG WHERE-BY THE OVERHANG(OH) RATIO IS EQUAL TO OR MORE THAN 1.0 PER FBC.

THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

[illegible]

OPENING TYPE (SUBSTRATE)	FRAME & MULLION PLATE TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
PRIMARY FRAME SCREWS			
(3) MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 2 & G=0.55)	NO. 20 SMS OR WOOD SCREW	1 1/2"	1"
MIN. 16 GA. 50 KSI METAL STUD	5/16" GR. 5 SELF TAP/DRILL SCREW	FULL	5/8"
MIN. 1/8" THK A36 STEEL	5/16" GR. 5 SELF TAP/DRILL SCREW	FULL	5/8"
MIN. 0.100" THK 6063-T5 ALUM.	5/16" GR. 5 SELF TAP/DRILL SCREW	FULL	5/8"
(4) MIN. C-90 CONCRETE FILLED BLOCK	(2) 5/16" CONCRETE SCREW	1 1/2"	2"
MIN. 2500 PSI CONCRETE	(2) 5/16" CONCRETE SCREW	1 3/4"	2"
SILL SCREWS (PRIMARY & SECONDARY) & SECONDARY FRAME SCREWS			
(3) MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 2 & G=0.55)	NO. 14 SMS OR WOOD SCREWS	1 1/2"	3/4" AT SIDES; 1" AT SILL
MIN. 16 GA. 50 KSI METAL STUD	1/4" GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	1/4" GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 0.100" THK 6063-T5 ALUM.	1/4" GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
(4) MIN. C-90 CONCRETE FILLED BLOCK	(1) 1/4" CONCRETE SCREW	1 1/2"	2"
MIN. 3000 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 3/4"	2"
MULLION END PLATE ANCHORS			
MIN. 2500 PSI CONCRETE	(5) EXPANSION ANCHOR WITH 5/16-18 X 1 3/4" MACHINE SCREW	FULL (1 5/8")	2 1/2"

- (1) 1/4" CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.), ITW RAMSET/RED HEAD TAPCONS (C.S. OR S.S.) OR HILTI KWIK-CON II (C.S OR S.S.).
- (2) 5/16" CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.)
- (3) 2X6 BUCKS SHALL BE OF A MINIMUM DEPTH REQUIRED TO MEET ANCHOR EDGE DISTANCE REQUIREMENTS BUT NO LESS THAN 4 1/4".
- (4) CONCRETE FILLED BLOCK SUBSTRATE IS NOT APPLICABLE AT HEAD AND SILL
- (5) EXPANSION ANCHORS SHALL BE POWERS SINGLE SHELL EXPANSION ANCHOR.

FRAME HEAD: VERTICAL MEMBERS RUN THROUGH WHILE THE HORIZONTAL MEMBERS ARE SQUARE CUT, BUTTED AND MECHANICALLY FASTENED WITH (3) NO. 10 X 1" PHTF THROUGH THE VERTICAL MEMBER INTO THE HORIZONTAL MEMBERS SCREW SPLINES. CORNERS ARE SEALED WITH SILICONE SEALANT.

SILL: VERTICAL MEMBERS RUN THROUGH WHILE THE THRESHOLD IS SQUARE CUT, BUTTED AND SEALED WITH SILICONE SEALANT.

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 22-1027.07
Expiration Date: 09/26/2028
By: Manuel Perez
Miami-Dade Product Control

DRAWING TITLE
FLT-400 THERMAL ALUMINUM GLAZED IMPACT OUT-SWING DOOR

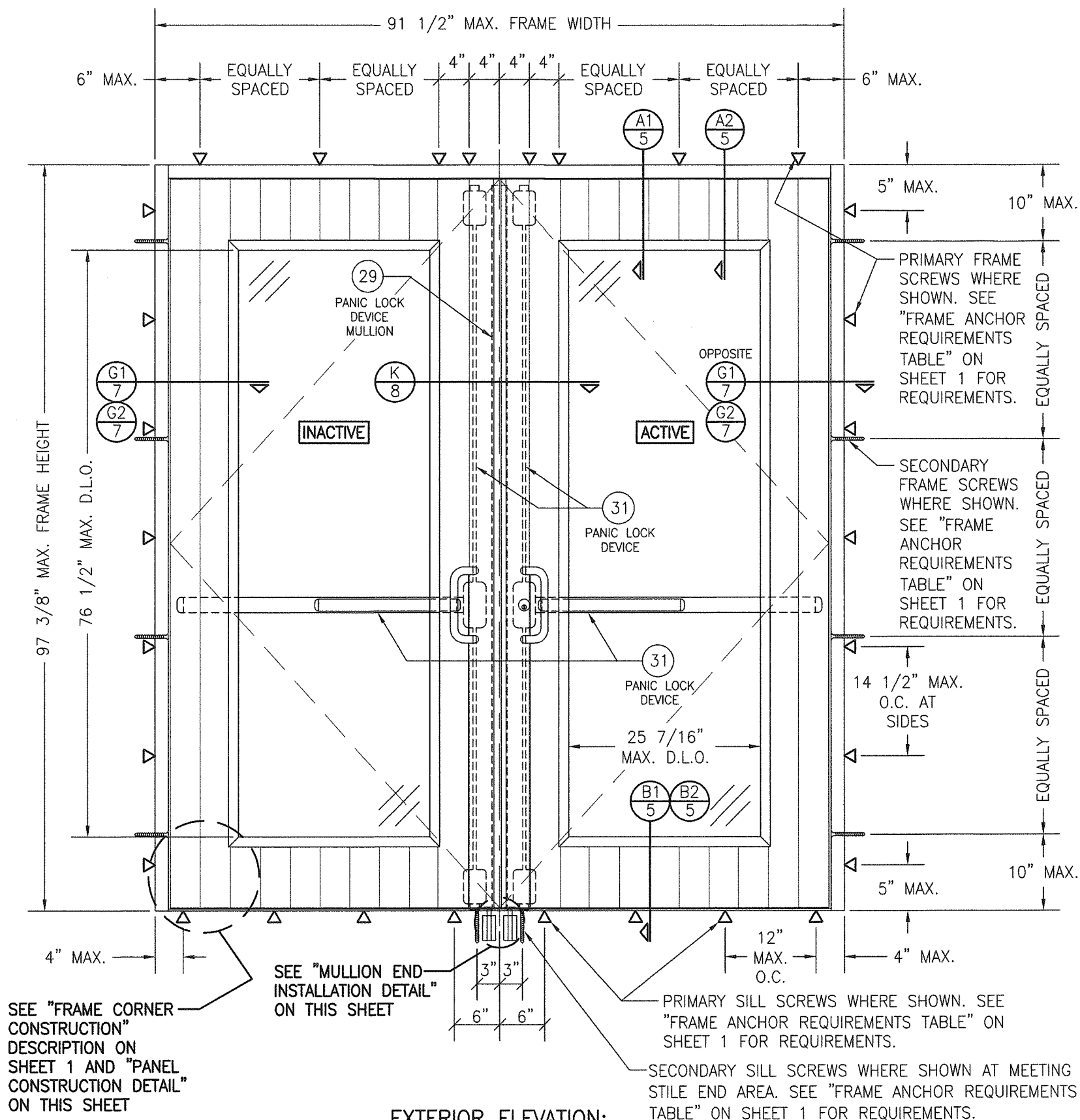
MANUFACTURER
CROSS ALUMINUM PRODUCTS, INC.
1770 MAYFLOWER RD.

CONSULTANTS
W. W. SCHAEFER ENGINEERING
& CONSULTING, P.A. (CA 6809)

26376 NADIR ROAD; UNIT 309
PUNTA GORDA, FL 33983
PHONE: 561-744-3424

WARREN W. SCHAEFER, P.E.
P.F. NO. 44135

DRAWING NO.	REV
1862	B
SHEET NO.	
1	OF 11

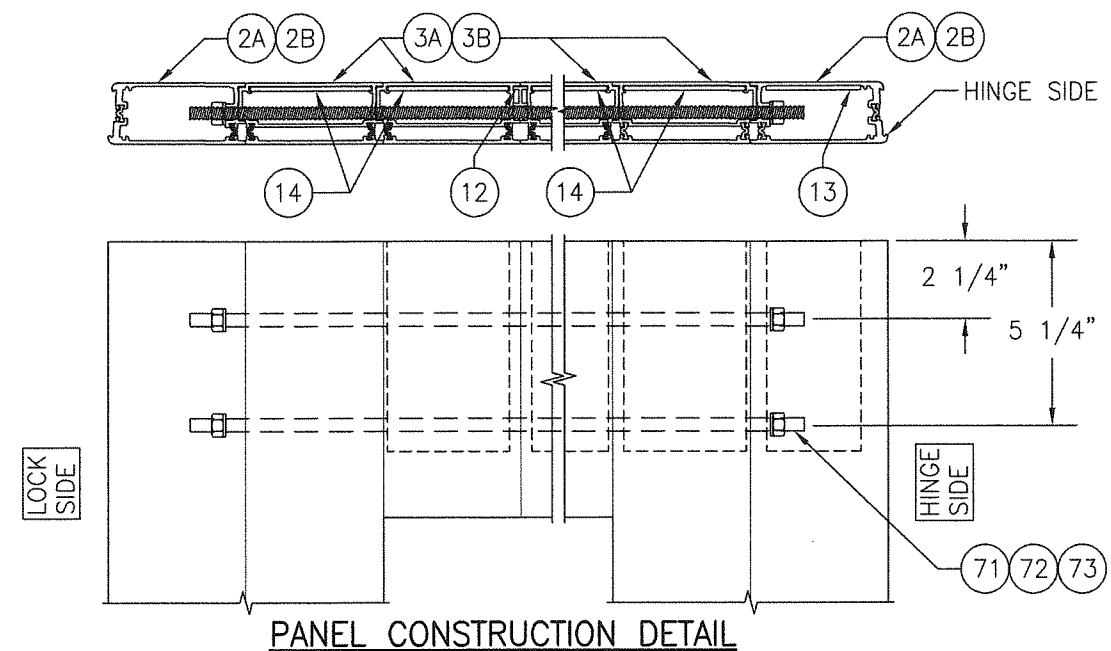


**EXTERIOR ELEVATION;
DOUBLE DOOR WITH LOCK HARDWARE OPTION 1**

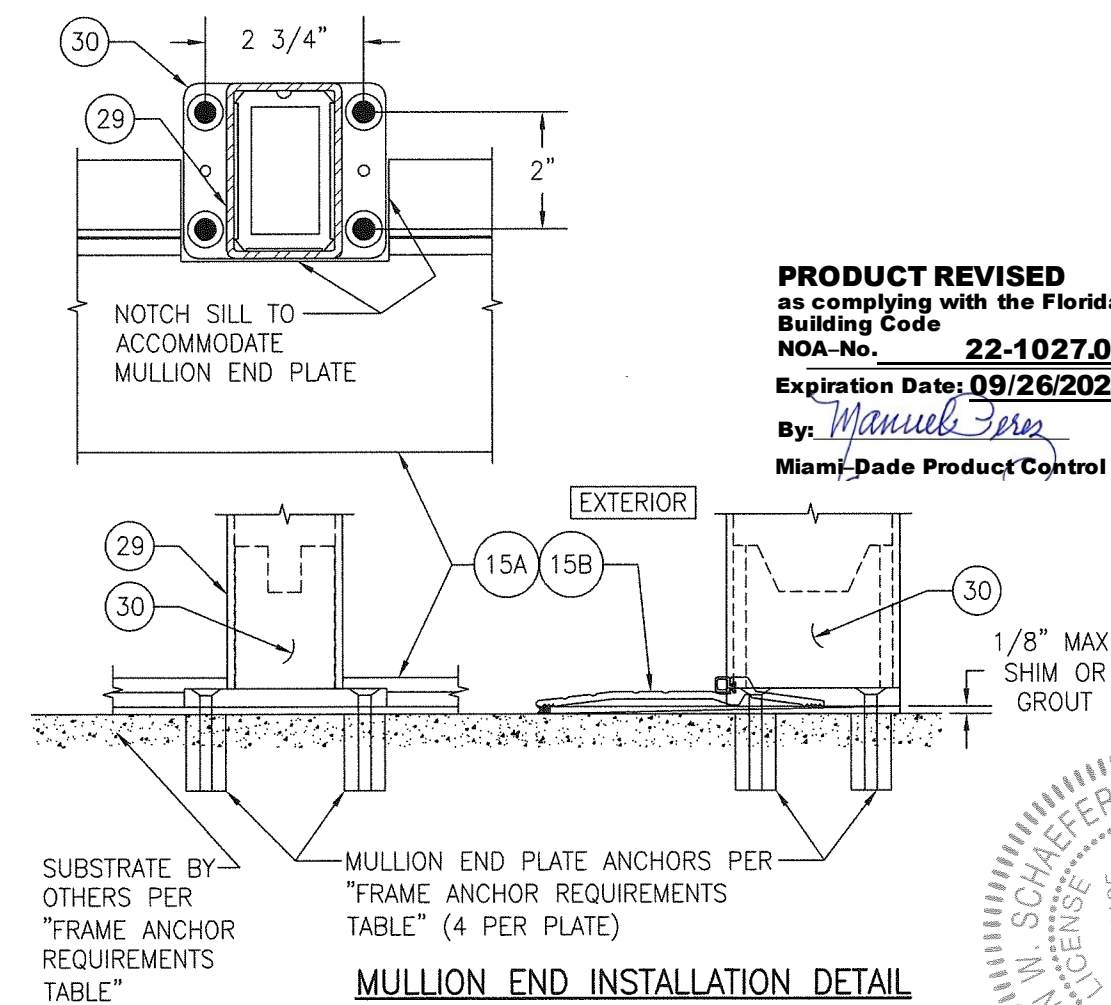
SCALE: 3/4" = 1'-0"

(SEE TABLE ON SHEET 1 FOR LOCK OPTION REQUIREMENTS)

NOTE: SINGLE DOOR IS NOTE APPLICABLE WITH LOCK OPTION 1

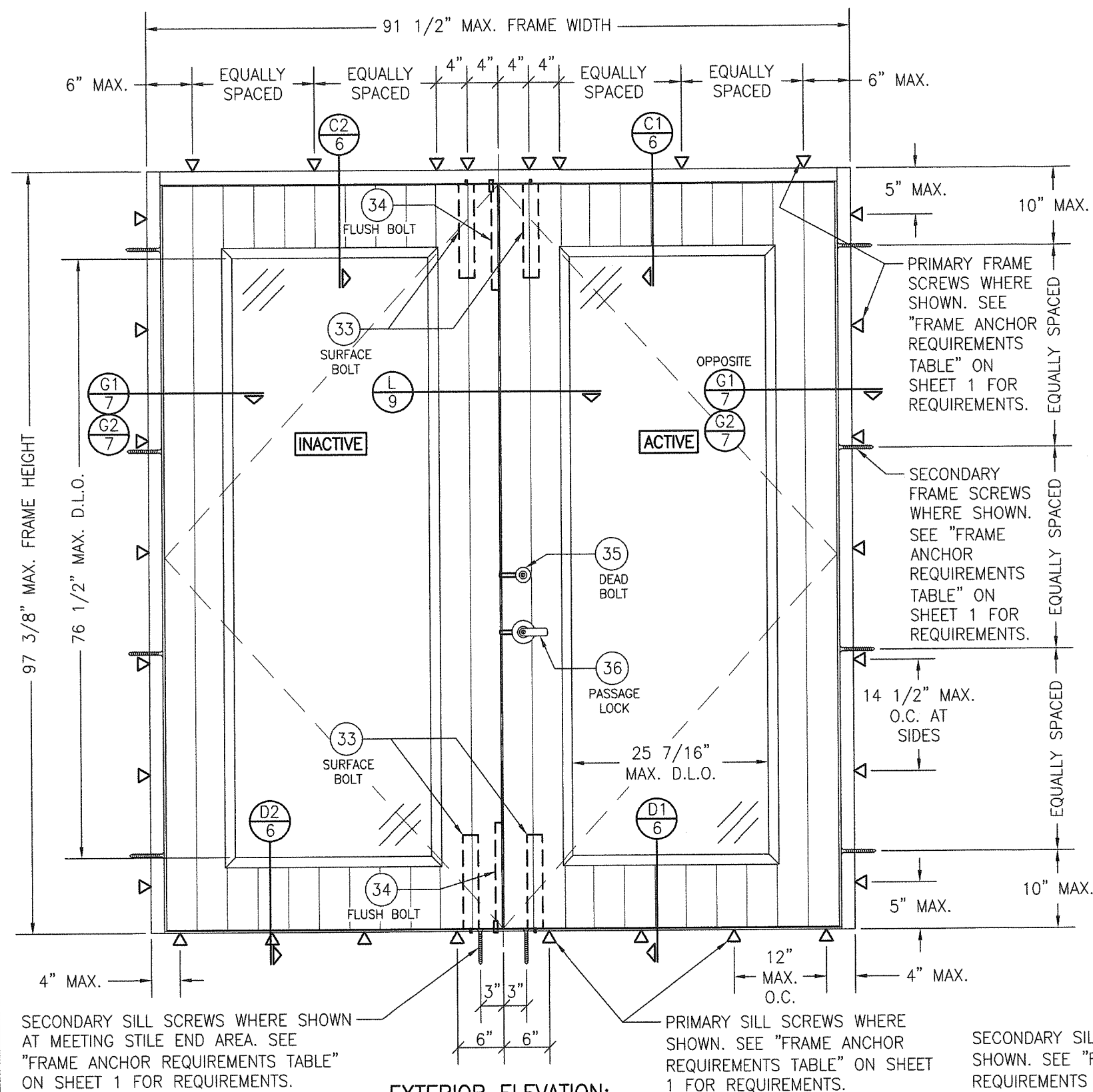


(TOP OF PANEL SHOWN. BOTTOM OF PANEL IS CONSTRUCTED THE SAME)



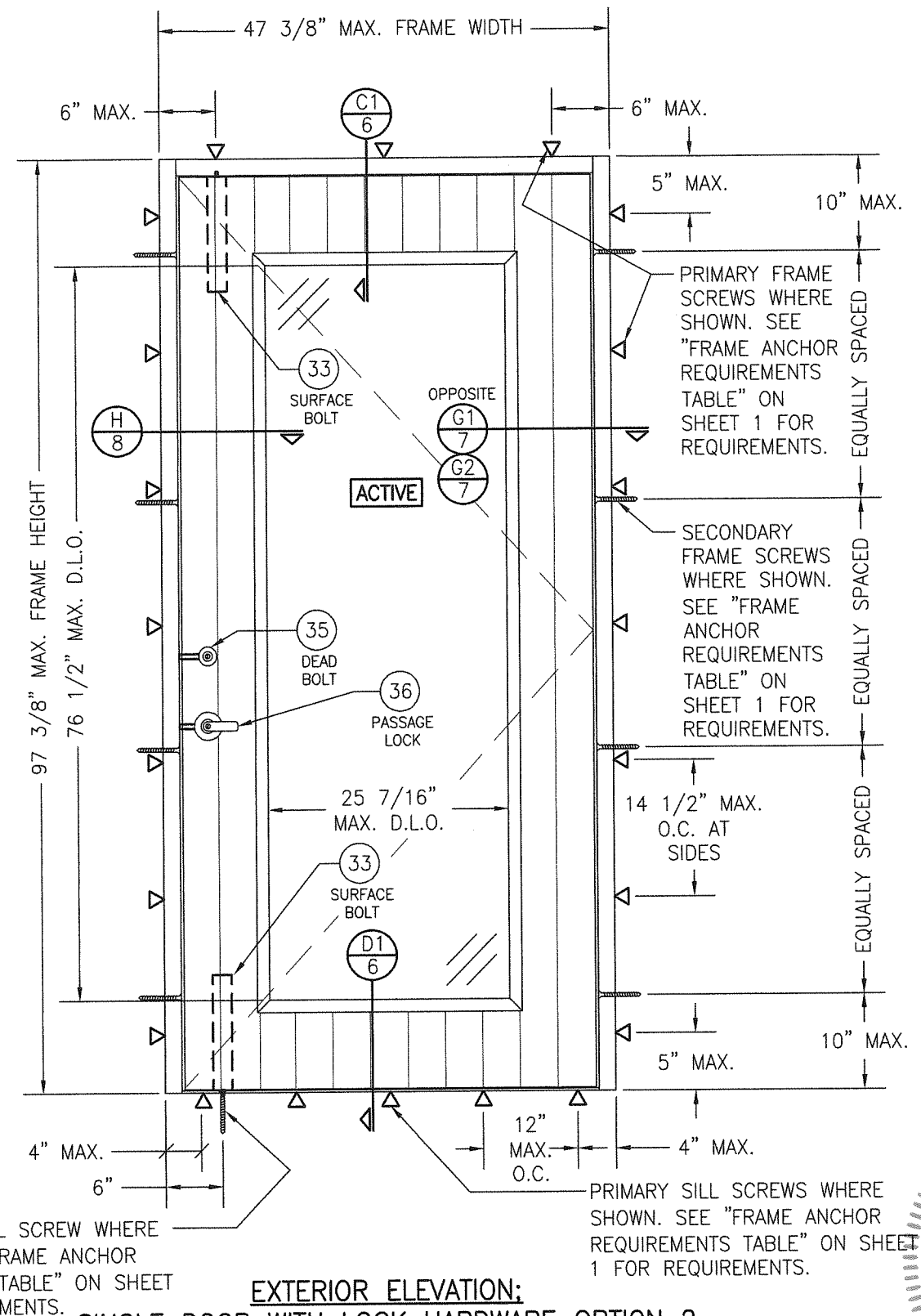
(DOOR PANEL NOT SHOWN FOR CLARITY)
(FOR SILL SCREWS NOT SHOWN. SEE SECTION B1/5)

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=16	DATE: 04/11/13
DATE	BY
REVISION DESCRIPTION	NO.
FLT-400 THERMAL ALUMINUM GLAZED IMPACT OUT-SWING DOOR MANUFACTURER CROSS ALUMINUM PRODUCTS, INC. 1770 MAYFLOWER RD. NILES, MI 49120 800-806-3667	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 26376 NADIR ROAD, UNIT 309 PUNTA GORDA, FL 33983 PHONE: 561-744-3424	
DRAWING TITLE W. W. SCHAEFER LICENSE NO. 44135 CERTIFICATION STATE OF FLORIDA PROFESSIONAL ENGINEER OCT 13 2012 P.E. NO. 44135	
DRAWING NO. 1862	REV. B
SHEET NO. 2	OF 11



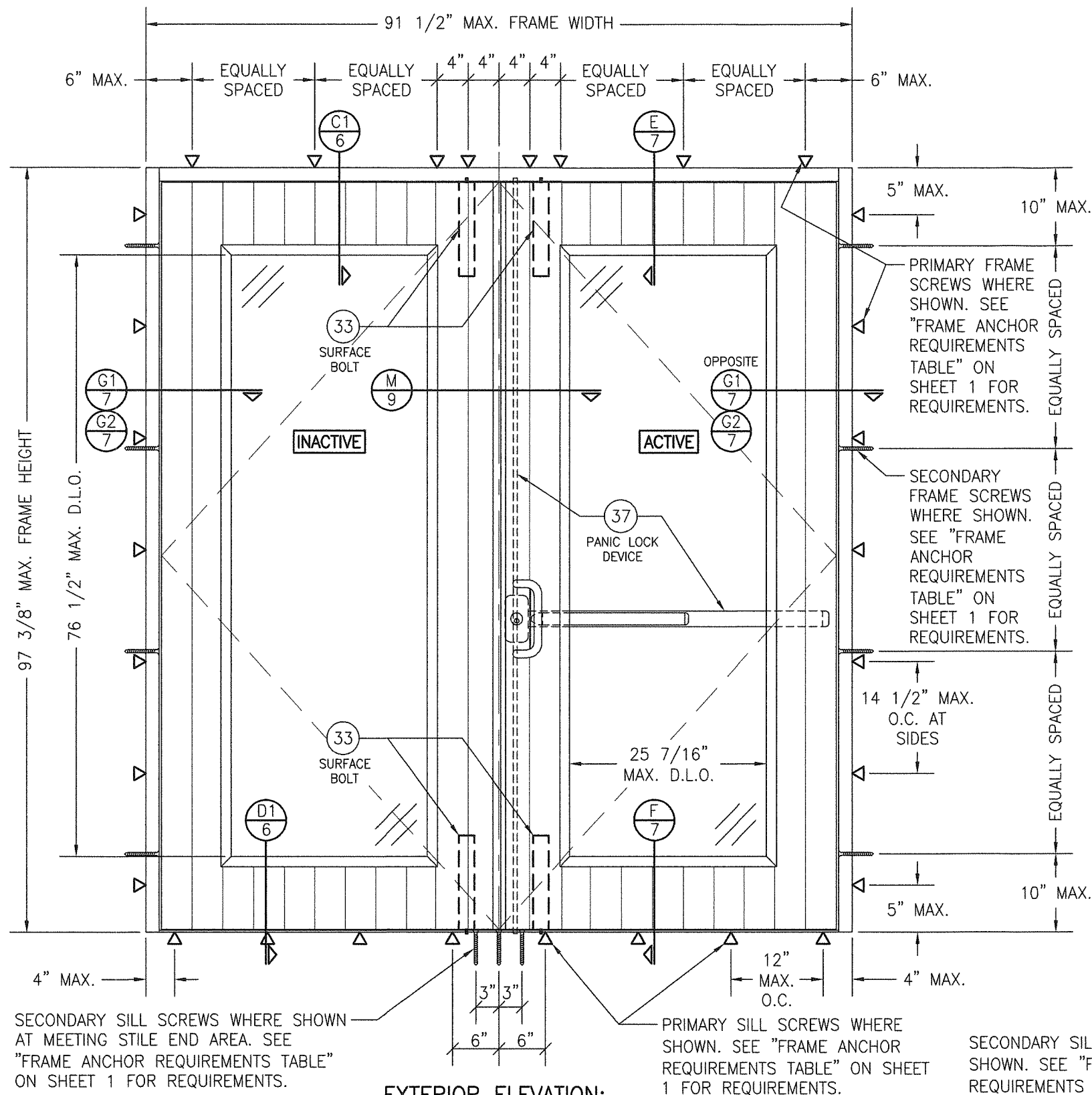
EXTERIOR ELEVATION:
DOUBLE DOOR WITH LOCK HARDWARE OPTION 2
 SCALE: 3/4" = 1'-0"
 (SEE TABLE ON SHEET 1 FOR LOCK OPTION REQUIREMENTS)

PRODUCT REVISED
 as complying with the Florida
 Building Code
 NOA-No. **22-1027.07**
 Expiration Date: **09/26/2028**
 By: *Manuel Perez*
 Miami-Dade Product Control



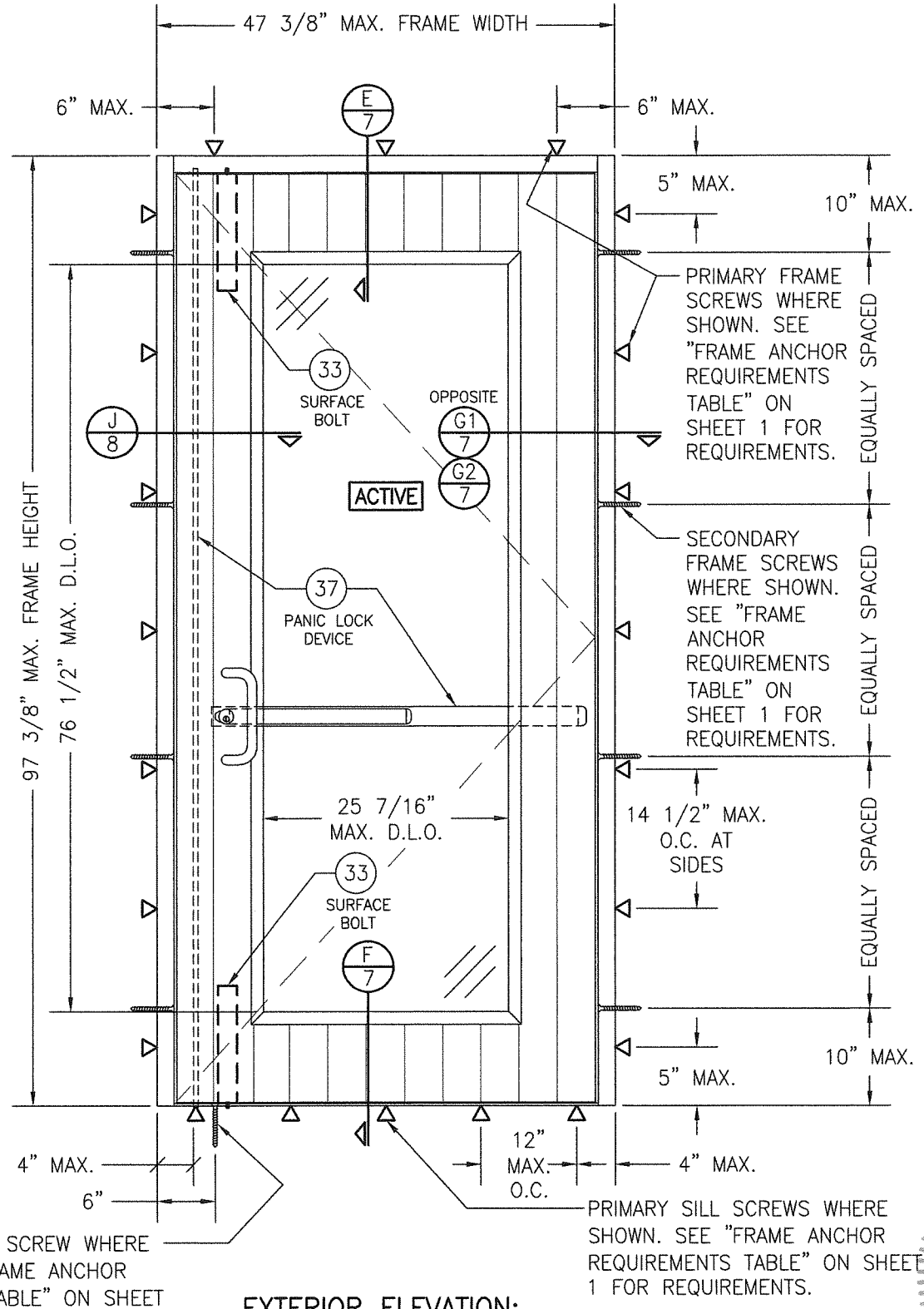
EXTERIOR ELEVATION:
SINGLE DOOR WITH LOCK HARDWARE OPTION 2
 SCALE: 3/4" = 1'-0"
 (SEE TABLE ON SHEET 1 FOR LOCK OPTION REQUIREMENTS)

DRAWN BY:	W.R.M.	CHECKED BY:	W.W.S.
PLOT:	1=16	DATE:	04/11/13
NO.		REVISION DESCRIPTION	
DATE		BY	
DRAWING TITLE	FLT-400 THERMAL ALUMINUM GLAZED IMPACT OUT-SWING DOOR		
CONSULTANTS	W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		
MANUFACTURER	CROSS ALUMINUM PRODUCTS, INC.		
	1770 MAYFLOWER RD.		
	NILES, MI 49120		
	800-806-3667		
CERTIFICATION	NO. 44135		
DATE	OCT 13 2022		
DRAWING NO.	1862	REV.	B
SHEET NO.	3	OF	11



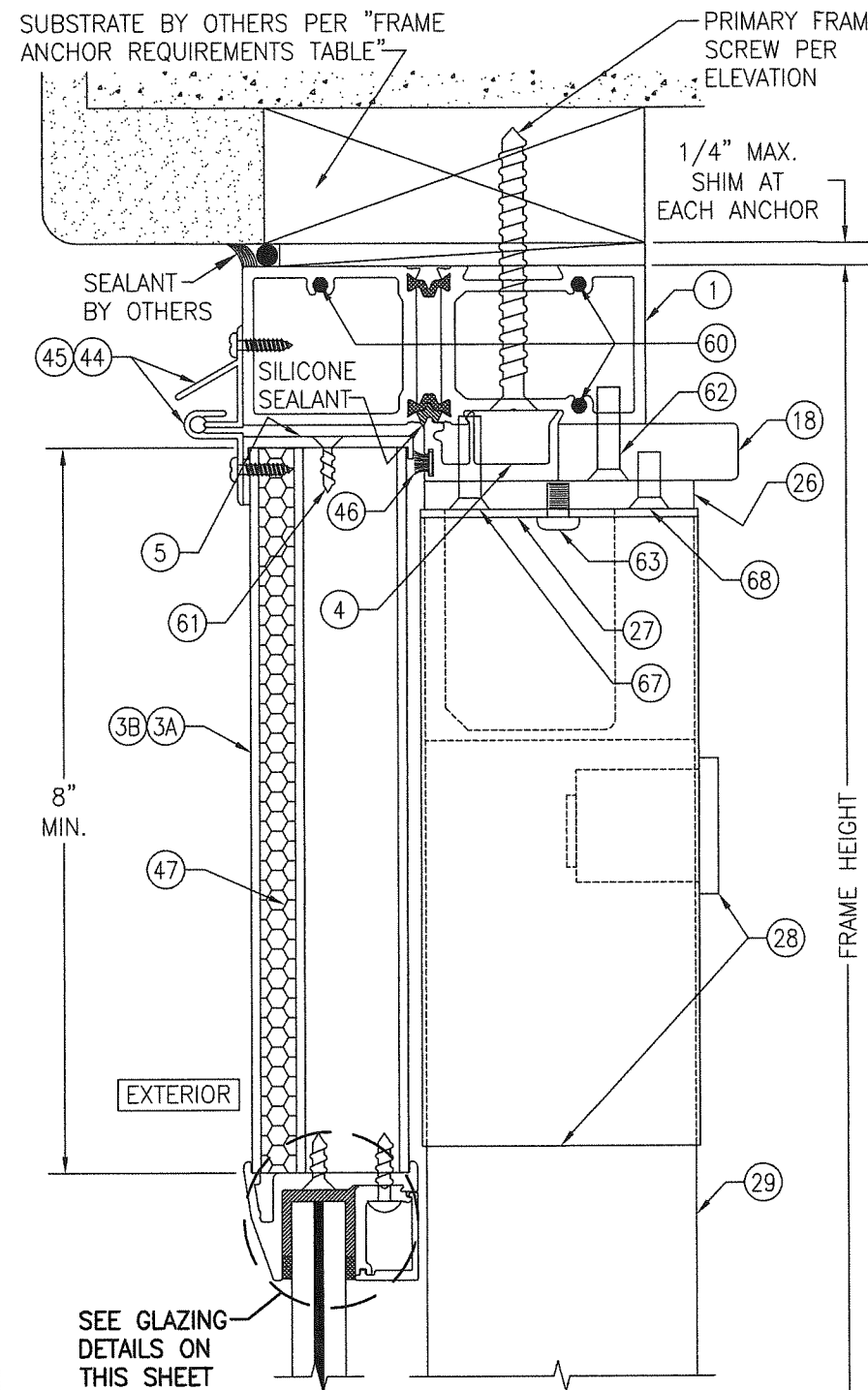
EXTERIOR ELEVATION:
DOUBLE DOOR WITH LOCK HARDWARE OPTION 3
 SCALE: 3/4" = 1'-0"
 (SEE TABLE ON SHEET 1 FOR LOCK OPTION REQUIREMENTS)

PRODUCT REVISED
 as complying with the Florida
 Building Code
 NOA-No. **22-1027.07**
 Expiration Date: **09/26/2028**
 By: *Manuel Perez*
 Miami-Dade Product Control

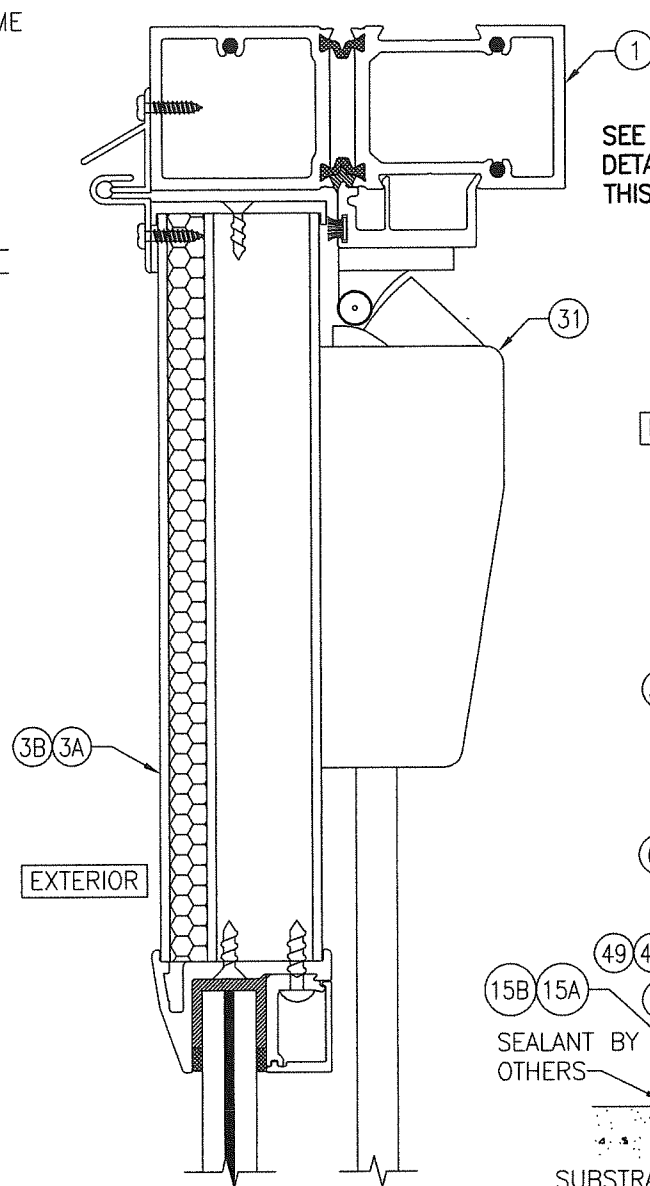


EXTERIOR ELEVATION:
SINGLE DOOR WITH LOCK HARDWARE OPTION 3
 SCALE: 3/4" = 1'-0"
 (SEE TABLE ON SHEET 1 FOR LOCK OPTION REQUIREMENTS)

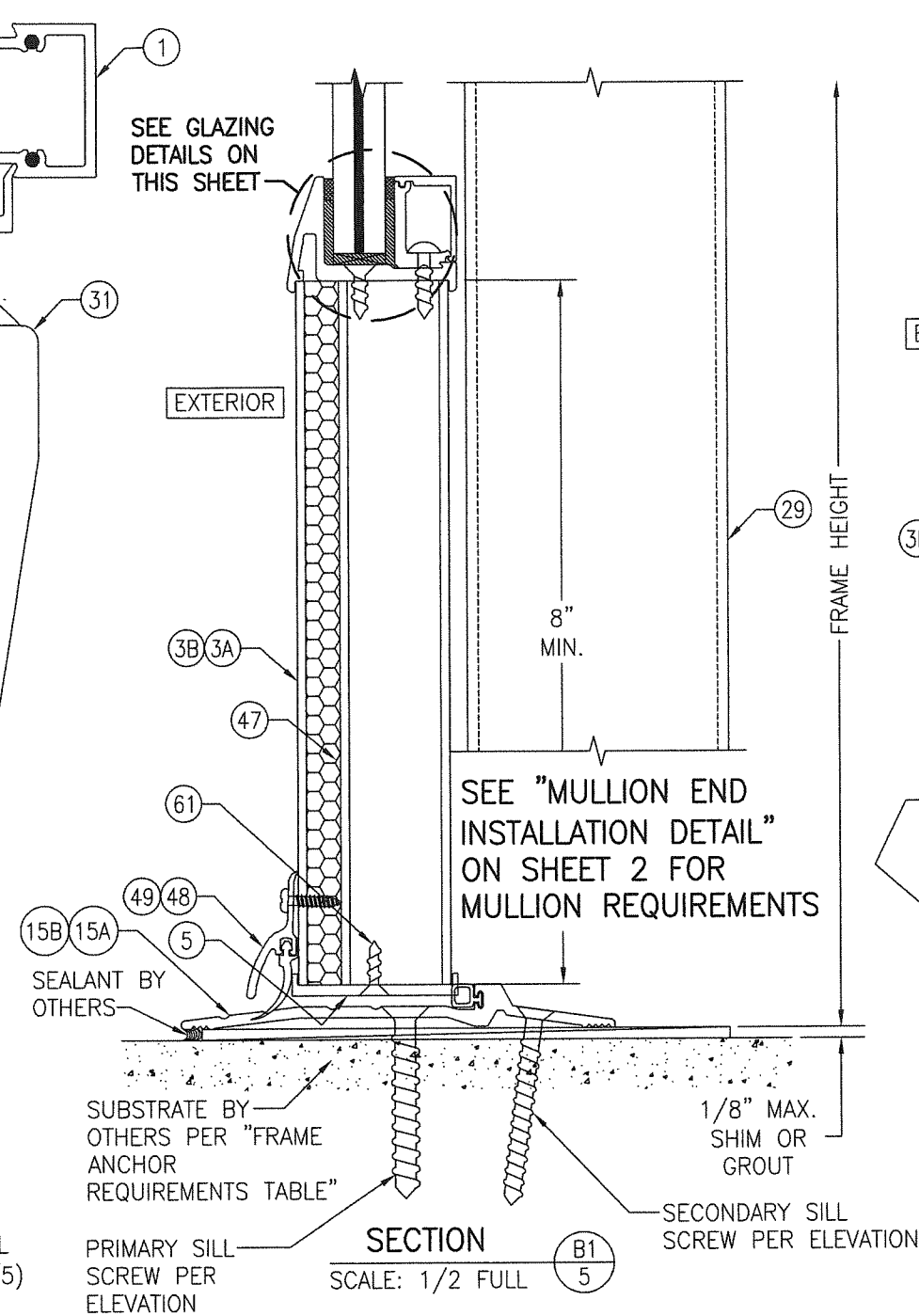
DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=16		DATE: 04/11/13	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE FLT-400 THERMAL ALUMINUM GLAZED IMPACT OUT-SWING DOOR			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 26376 NADIR ROAD; UNIT 309 PUNTA GORDA, FL 33983 PHONE: 561-744-3424		MANUFACTURER CROSS ALUMINUM PRODUCTS, INC. 1770 MAYFLOWER RD. NILES, MI 49120 800-806-3667	
CERTIFICATION OCT 13 2022 WARREN W. SCHAEFER, P.E. NO. 44135			
DRAWING NO. 1862		REV. B	
SHEET NO. 4 OF 11			



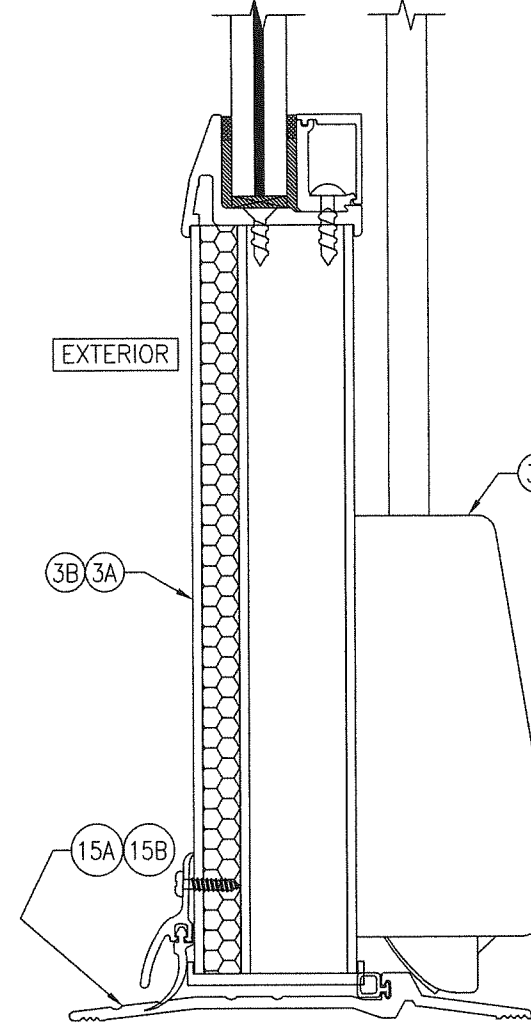
SECTION A1
SCALE: 1/2 FULL
(SECTION SHOWING MULLION DETAIL)



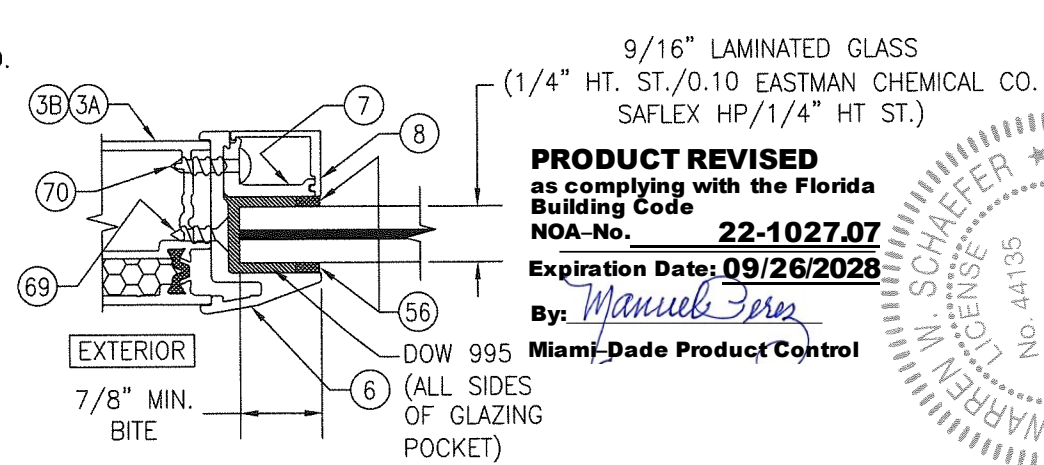
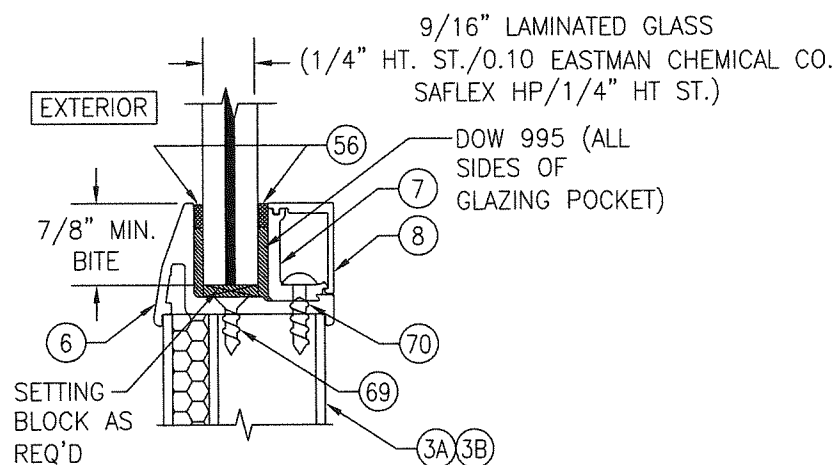
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(SECTION SHOWING LOCK DETAIL)
(FOR INSTALLATION AND DETAIL NOT SHOWN, SEE SECTION A1/5)



SECTION B1
SCALE: 1/2 FULL



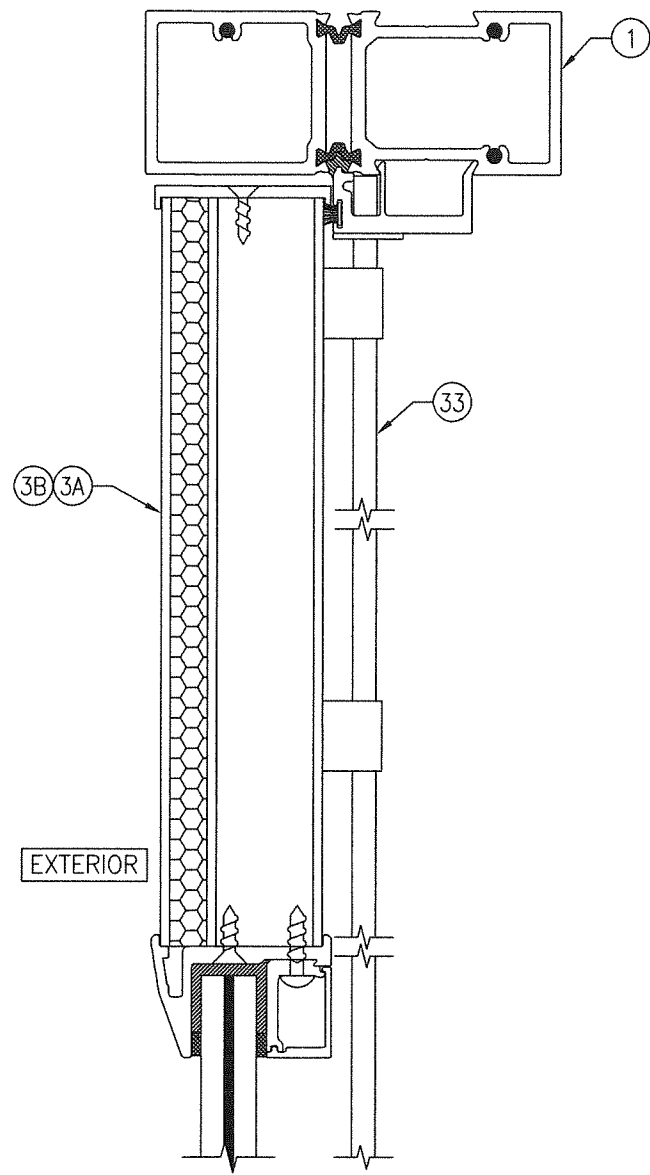
SECTION B2
SCALE: 1/2 FULL
(FOR INSTALLATION AND DETAIL NOT SHOWN, SEE SECTION B1/5)



PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 22-1027.07
Expiration Date: 09/26/2028
By: *Manuel Perez*
Miami-Dade Product Control

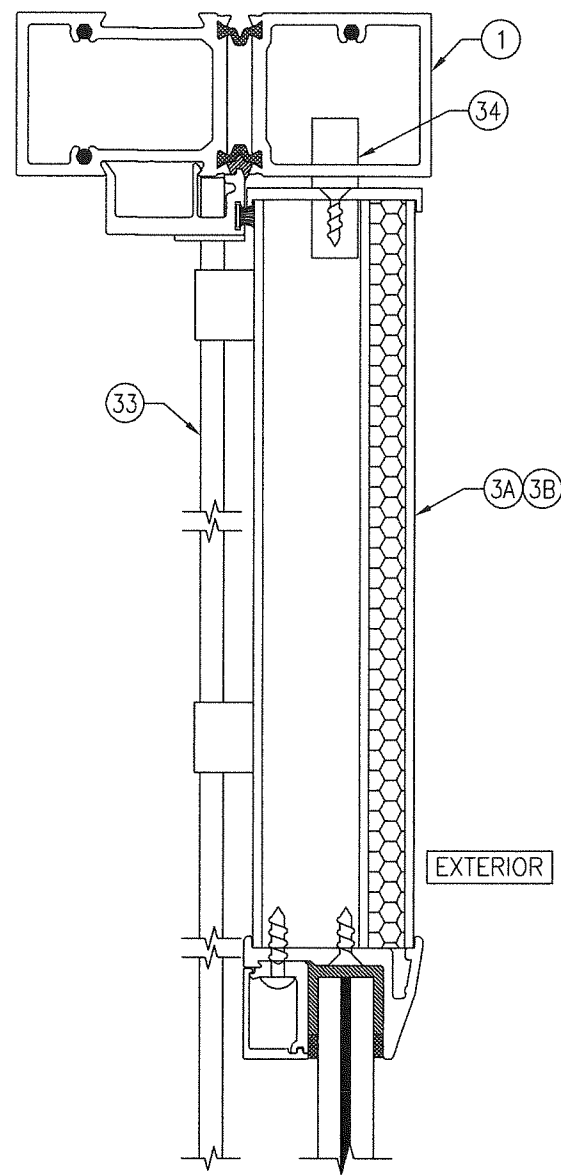


DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 04/11/13
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE FLT-400 THERMAL ALUMINUM GLAZED IMPACT OUT-SWING DOOR	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 26376 NADIR ROAD, UNIT 309 PUNTA GORDA, FL 33983 PHONE: 561-744-3424	
MANUFACTURER CROSS ALUMINUM PRODUCTS, INC. 1770 MAYFLOWER RD. NILES, MI 49120 800-806-3667	
DRAWING NO. 1862	REV. B
SHEET NO. 5	OF 11



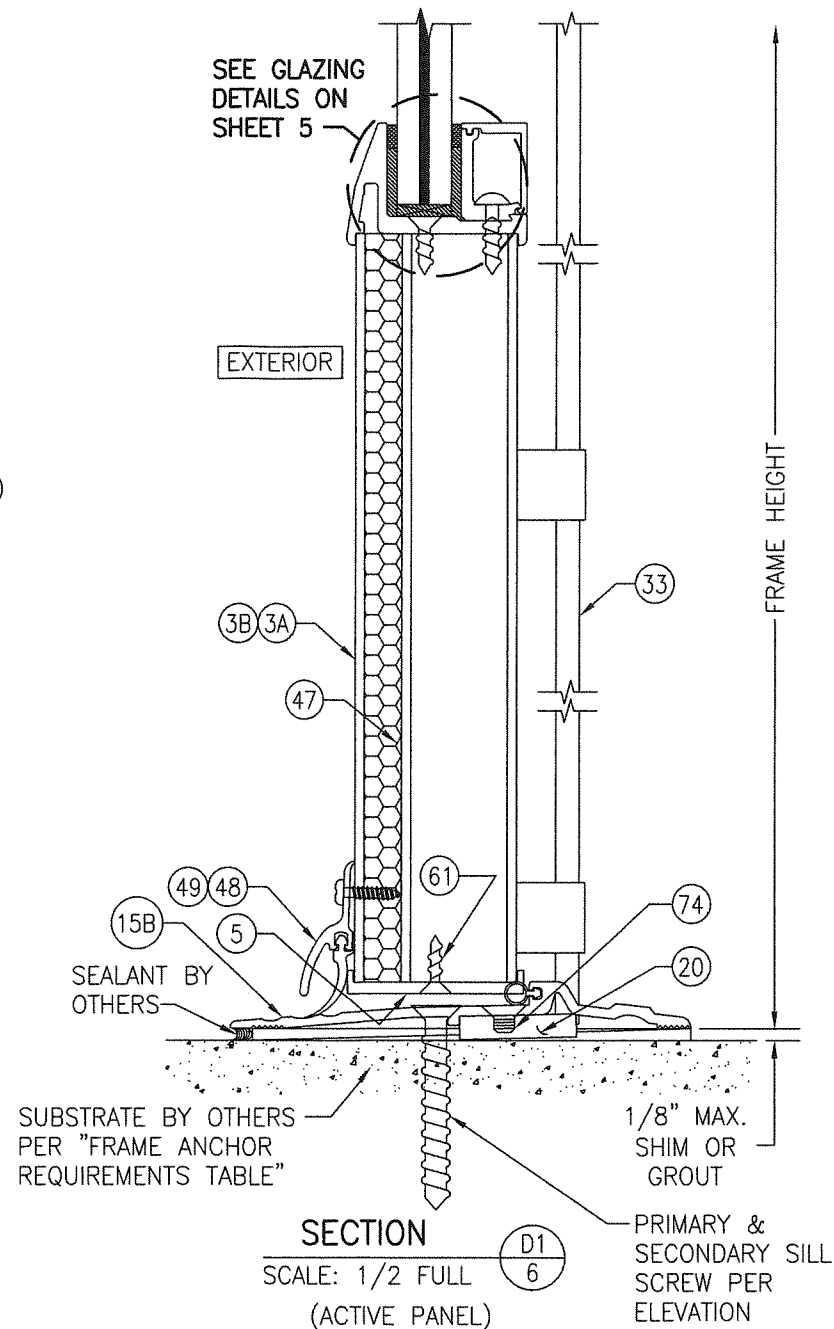
SECTION C1
SCALE: 1/2 FULL
(ACTIVE PANEL)

(FOR INSTALLATION AND DETAIL
NOT SHOWN, SEE SECTION A1/5)

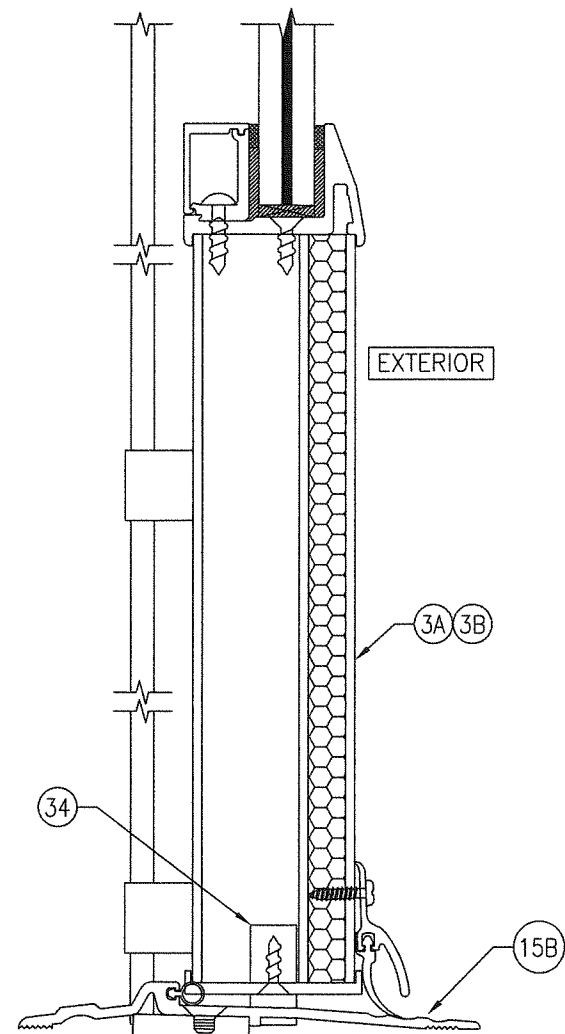


SECTION C2
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(INACTIVE PANEL)

(FOR INSTALLATION AND DETAIL
NOT SHOWN, SEE SECTION A1/5)



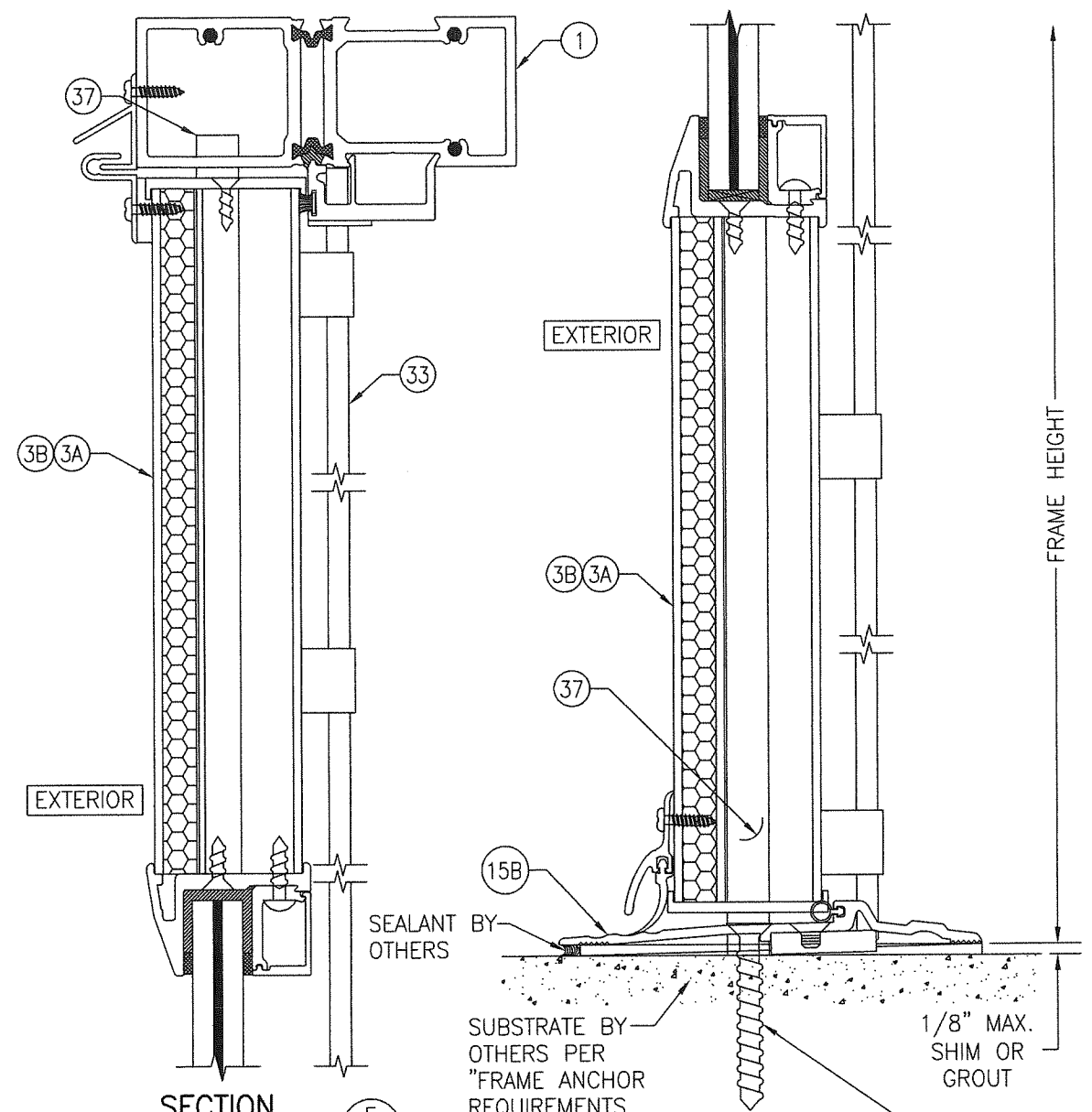
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(ACTIVE PANEL)



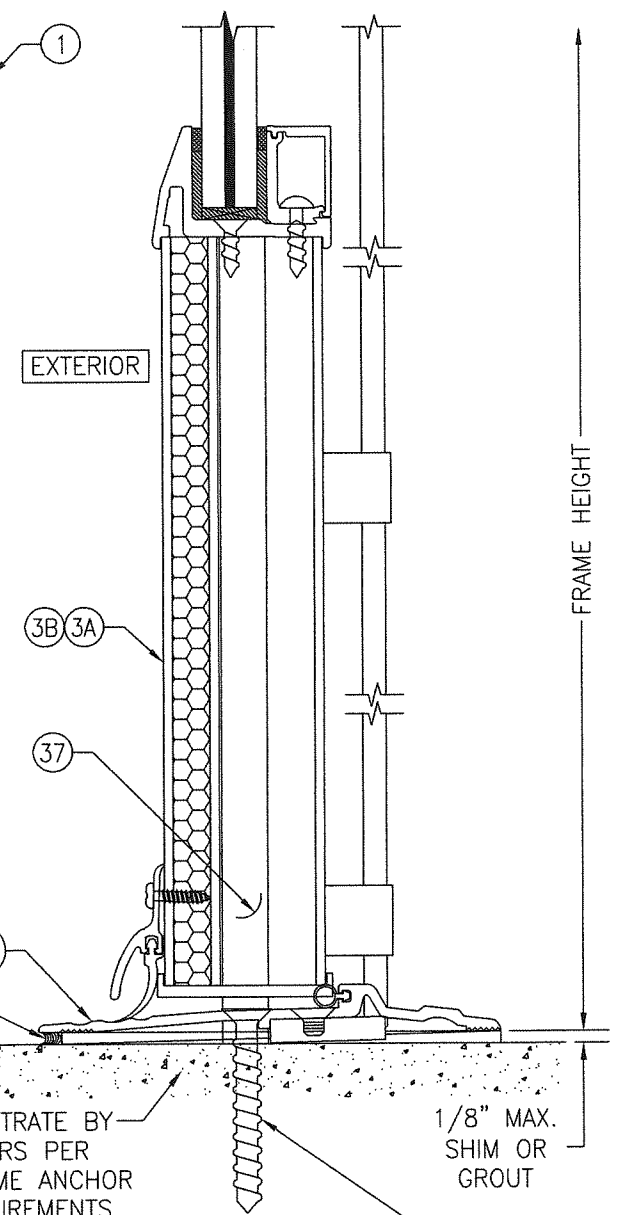
SECTION D2
SCALE: 1/2 FULL
(INACTIVE PANEL)
(FOR INSTALLATION AND DETAIL
NOT SHOWN, SEE SECTION D1/6)

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Building Code
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Expiration Date: **09/26/2028**
By: *Manuel Perez*
Miami-Dade Product Control

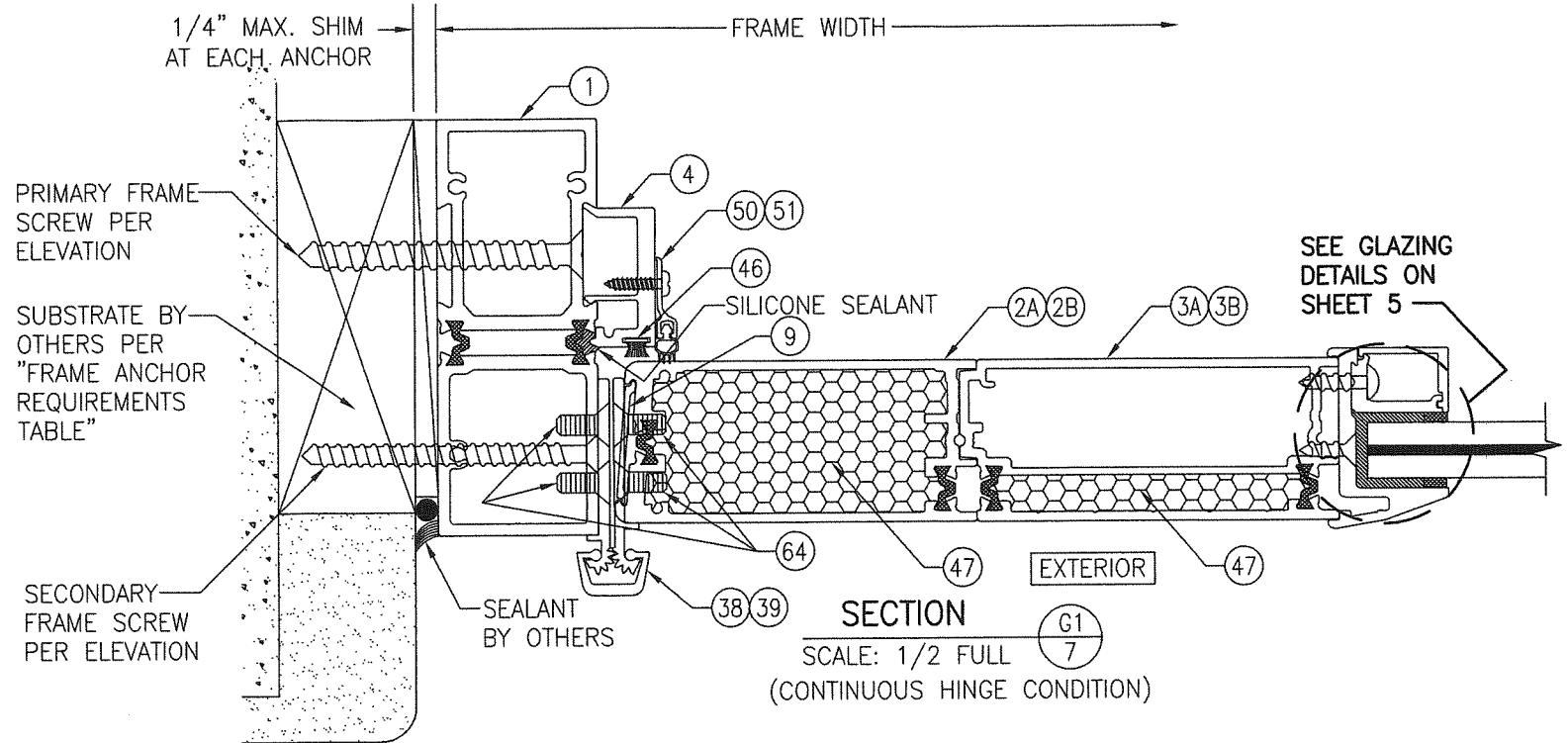
DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 04/11/13	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE FLT-400 THERMAL ALUMINUM GLAZED IMPACT OUT-SWING DOOR			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)			
MANUFACTURER CROSS ALUMINUM PRODUCTS, INC. 1770 MAYFLOWER RD. NILES, MI 49120 800-806-3667			
CERTIFICATION OCT 13 2022 WARREN W. SCHAEFER, P.E. No. 44135			
DRAWING NO.	REV.	SHEET NO.	
1862	B	6 OF 11	



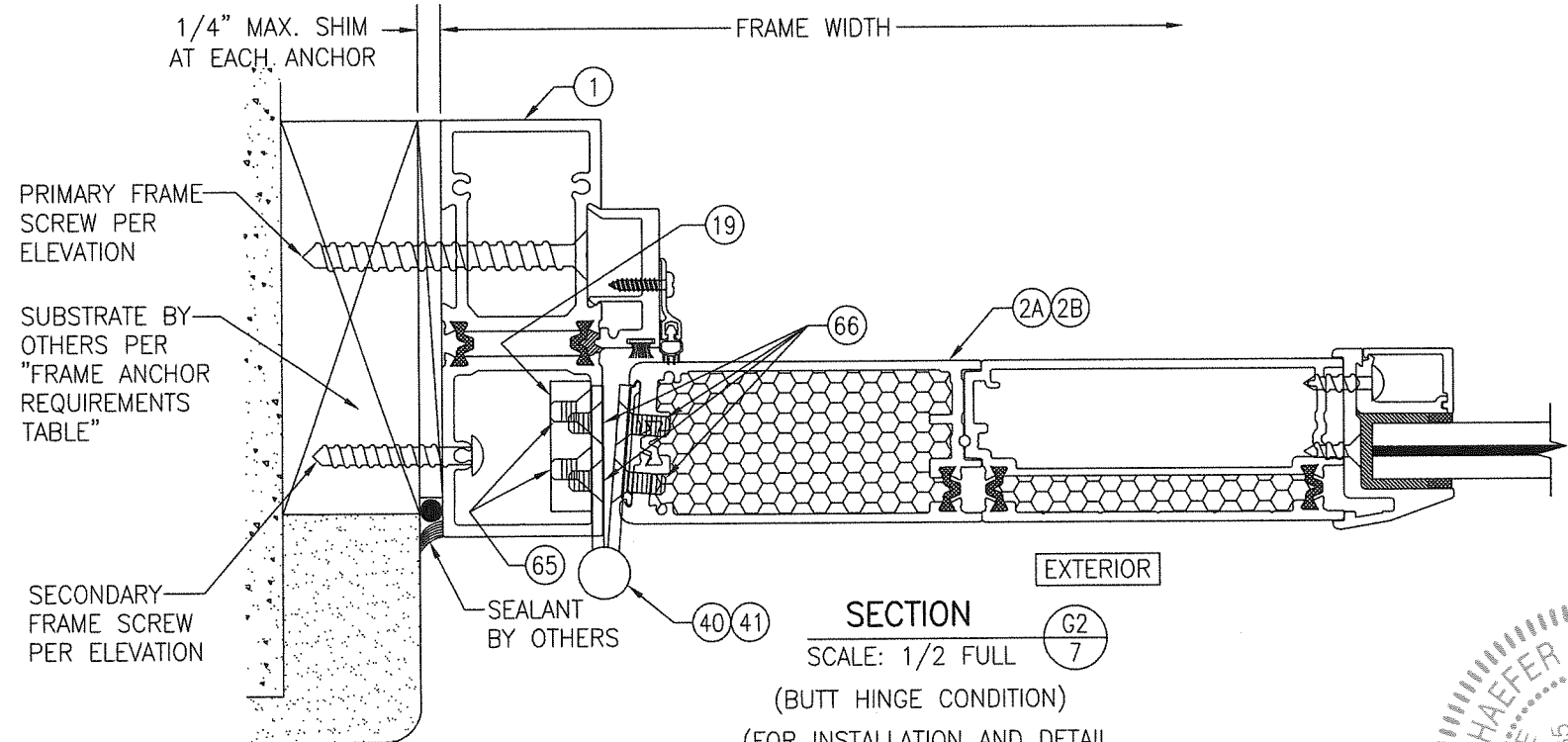
SECTION E
SCALE: 1/2 FULL
(FOR INSTALLATION AND DETAIL NOT SHOWN, SEE SECTION A1/5)



SECTION F
SCALE: 1/2 FULL
(FOR DETAIL NOT SHOWN, SEE SECTION D1/6)



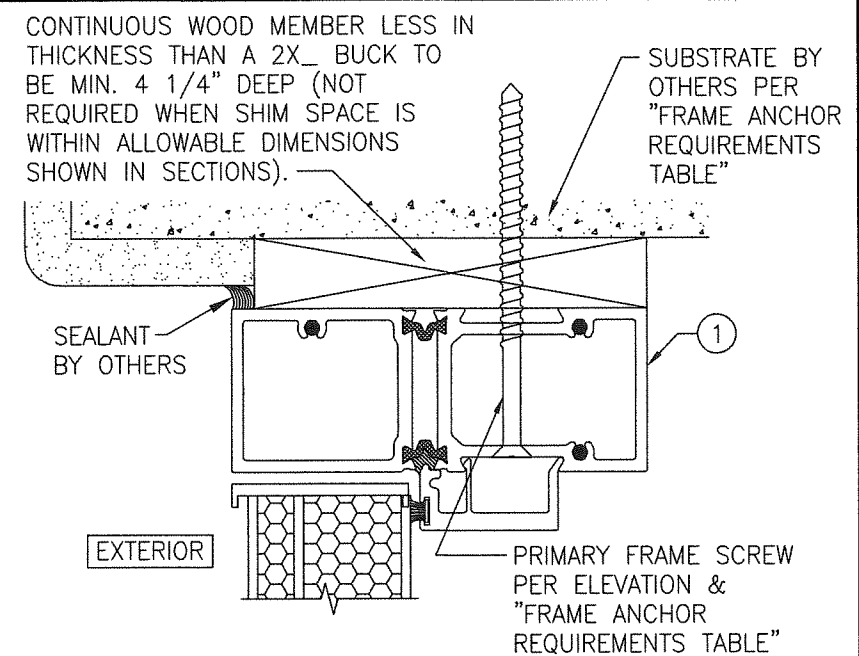
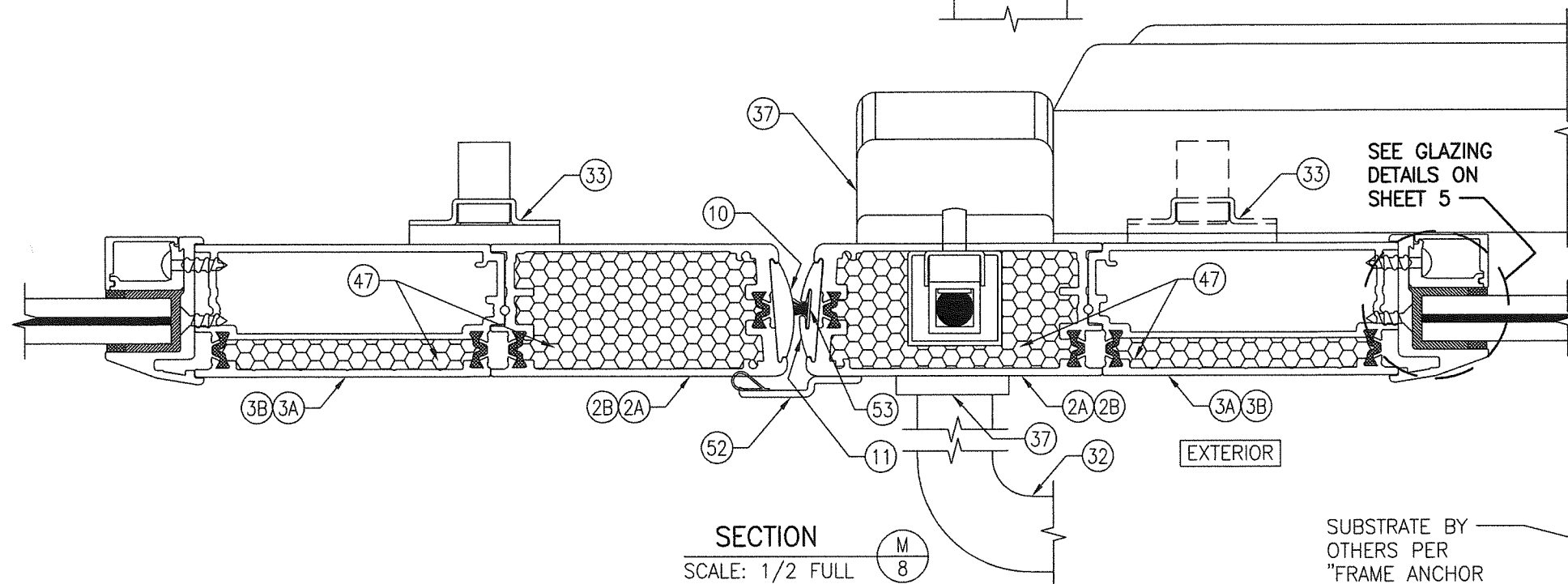
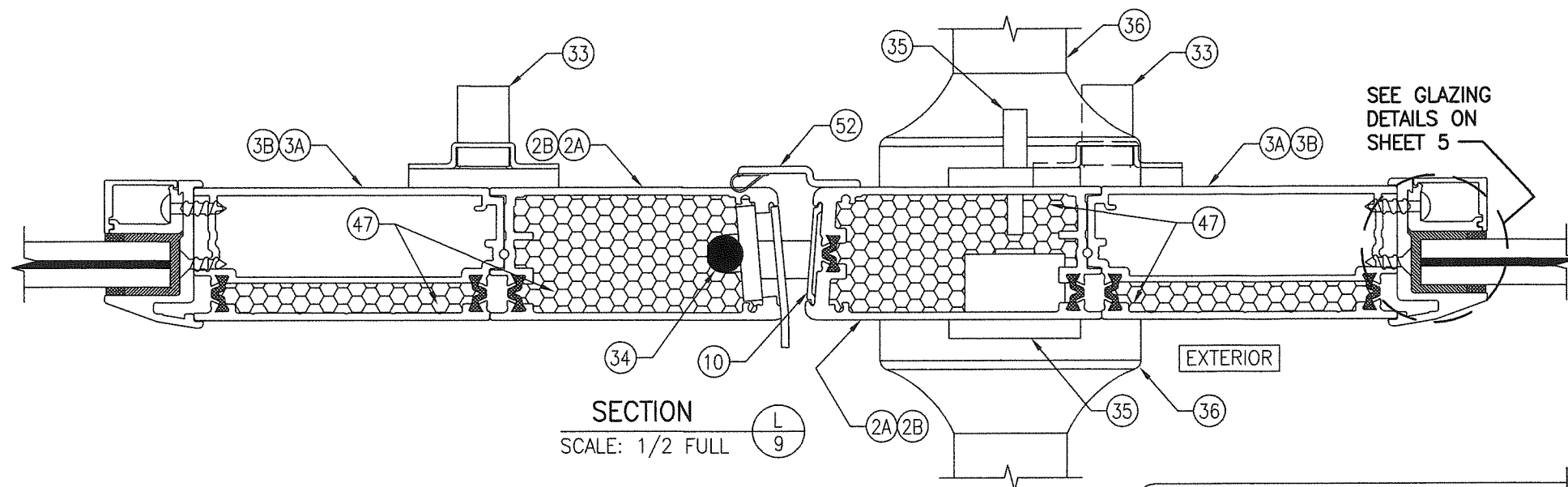
SECTION G1
SCALE: 1/2 FULL
(CONTINUOUS HINGE CONDITION)



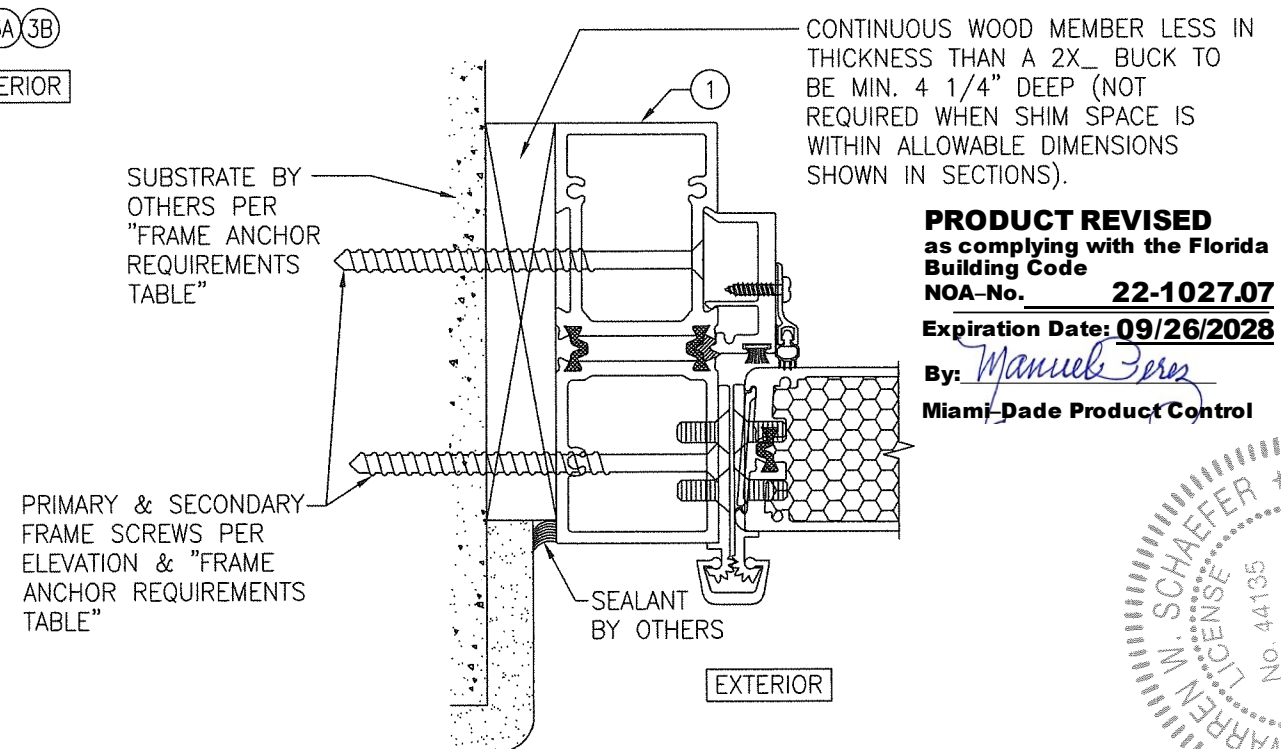
SECTION G2
SCALE: 1/2 FULL
(BUTT HINGE CONDITION)
(FOR INSTALLATION AND DETAIL NOT SHOWN, SEE SECTION G1/7)

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **22-1027.07**
Expiration Date: **09/26/2028**
By: *Manuel Perez*
Miami-Dade Product Control

DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 04/11/13	
NO.	DATE	BY	REVISION DESCRIPTION
DRAWING TITLE: FLT-400 THERMAL ALUMINUM GLAZED IMPACT OUT-SWING DOOR			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER: CROSS ALUMINUM PRODUCTS, INC.	
26376 NADIR ROAD; UNIT 309 PUNTA GORDA, FL 33983 PHONE: 561-744-3424		1770 MAYFLOWER RD. NILES, MI 49120 800-806-3667	
CERTIFICATION: WARREN W. SCHAEFER, P.E. No. 44135		DRAWING NO. 1862	
SHEET NO. 7		REV. B	
OF 11			




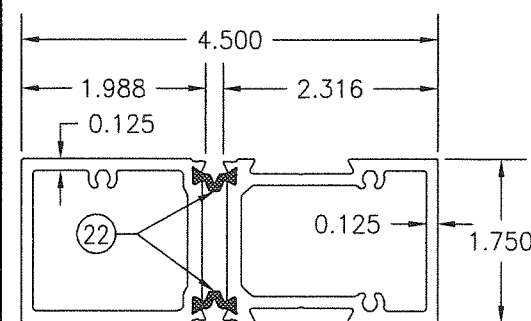
OPTIONAL DIRECT MOUNT DETAIL
TO SUBSTRATE WITH SPACER AT HEAD
(FOR DETAIL NOT SHOWN, SEE OTHER HEAD SECTIONS)



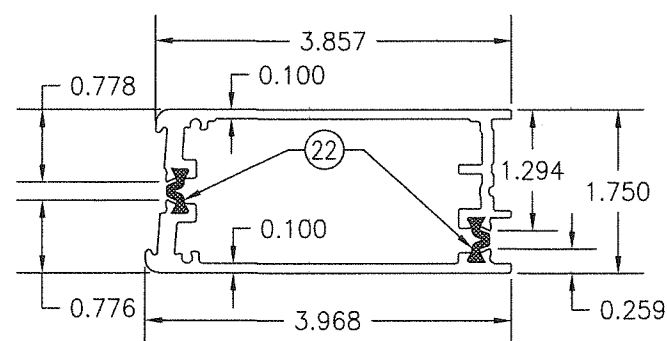
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 22-1027.07
Expiration Date: 09/26/2028
By: Manuel Perez
Miami-Dade Product Control

OPTIONAL DIRECT MOUNT DETAIL
TO SUBSTRATE WITH SPACER AT SIDES
(FOR DETAIL NOT SHOWN, SEE OTHER SIDE SECTIONS)

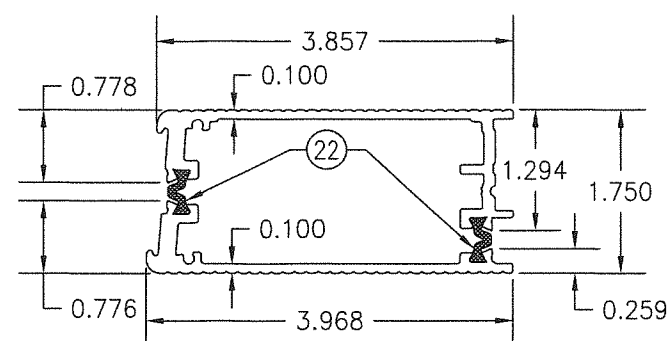
DRAWING NO. 1862	REV. B	DRAWN BY: W.R.M.		CHECKED BY:	
		PLOT: 1=2		DATE: 04/11/13	
SHEET NO. 9 OF 11		CERTIFICATION		DRAWING TITLE	
		WARREN W. SCHAEFFER, P.E. P.E. NO. 44135		FLT-400 THERMAL ALUMINUM GLAZED IMPACT OUT-SWING DOOR	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 26376 NADIR ROAD; UNIT 309 PUNTA GORDA, FL 33983 PHONE: 561-744-3424		MANUFACTURER CROSS ALUMINUM PRODUCTS, INC. 1770 MAYFLOWER RD. NILES, MI 49120 800-806-3667		NO. REVISION DESCRIPTION BY DATE	



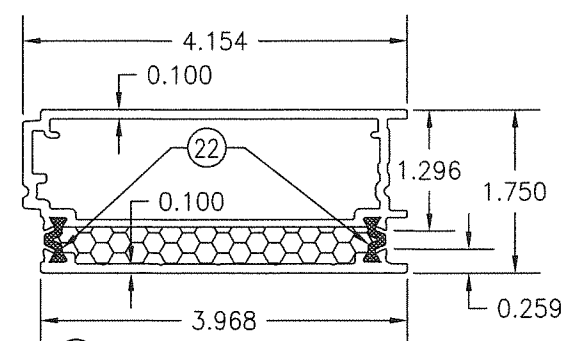
① HEAD & JAMB FRAME



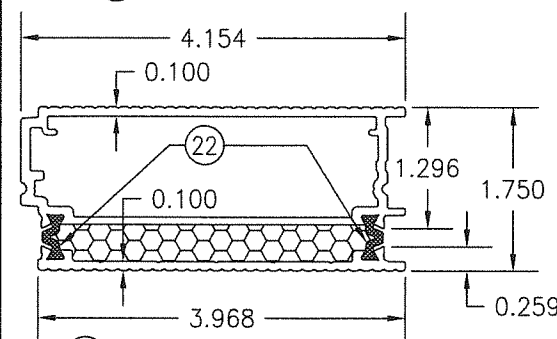
②A MEETING & HINGE
VERTICAL PANEL SLATS
(SMOOTH FINISH)



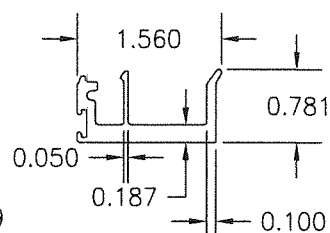
②B MEETING & HINGE
VERTICAL PANEL SLATS
(FLUTED FINISH)



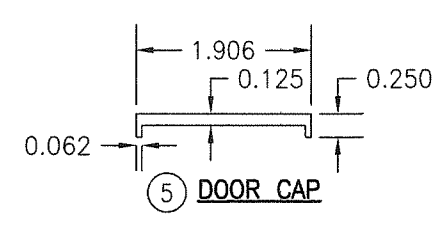
③A INTERMEDIATE VERTICAL
PANEL SLATS
(SMOOTH FINISH)



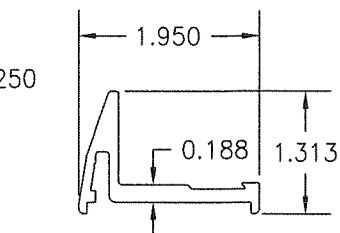
③B INTERMEDIATE VERTICAL
PANEL SLATS
(FLUTED FINISH)



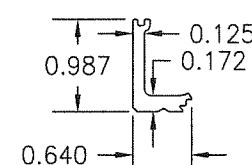
④ DOOR STOP



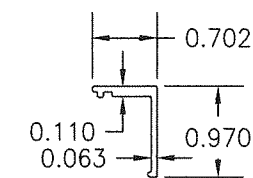
⑤ DOOR CAP



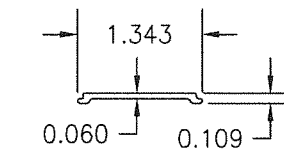
⑥ EXTERIOR GLAZING BEAD



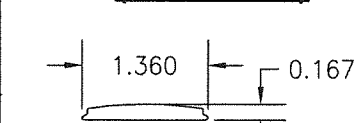
⑦ INTERIOR GLAZING BEAD



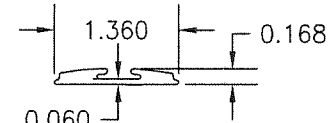
⑧ INTERIOR GLAZING
BEAD COVER



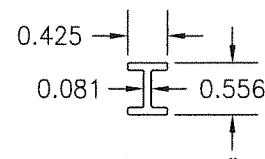
⑨ DOOR EDGE FILLER



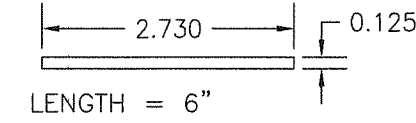
⑩ INACTIVE PANEL EDGE
FILLER



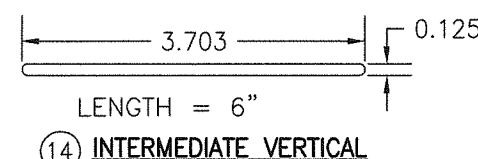
⑪ ACTIVE PANEL EDGE
FILLER



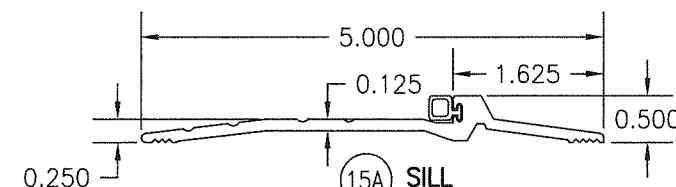
⑫ DOOR SPACER
(ALLOWS PANEL
MEMBERS TO
REVERSE DIRECTION)



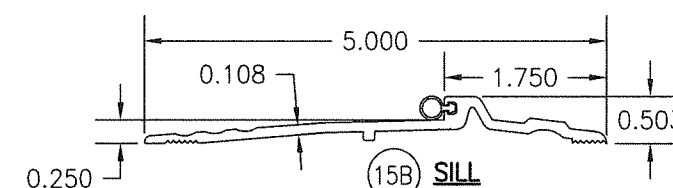
⑬ LOCK & HINGE VERTICAL
PANEL SLAT REINFORCEMENT
(1 REQ'D AT ALL HINGE
SLATS; 2 REQ'D AT
SURFACE LOCK BOLT
LOCATIONS WITH LOCK
OPTIONS 2 & 3)



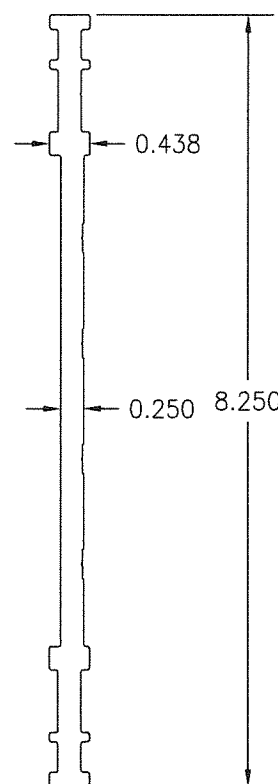
⑭ INTERMEDIATE VERTICAL
PANEL SLAT
REINFORCEMENT



⑮A SILL



⑮B SILL



LENGTH = 1 1/4\"/>

⑰ BUTT HINGE BACK-UP PLATE

DRAWN BY:	W.R.M.	CHECKED BY:	W.W.S.
PLOT:	1=2	DATE:	04/11/13
NO.		DATE	
BY			
REVISION			
DESCRIPTION			

DRAWING TITLE
FLT-400 THERMAL ALUMINUM GLAZED IMPACT OUT-SWING DOOR

MANUFACTURER
CROSS ALUMINUM PRODUCTS, INC.
1770 MAYFLOWER RD.
NILES, MI 49120
800-806-3667

CONSULTANTS
W. W. SCHAEFER ENGINEERING
& CONSULTING, P.A. (CA 6809)
26376 NADIR ROAD; UNIT 309
PUNTA GORDA, FL 33983
PHONE: 561-744-3424

CERTIFICATION

OCT 13 2022

WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 22-1027.07

Expiration Date: 09/26/2028

By: *Manuel Torres*

Miami-Dade Product Control

DRAWING NO.	REV.
1862	B
SHEET NO.	
10 OF 11	

ITEM #ITEM DESCRIPTIONMANUFACTURER/NOTES			ITEM #ITEM DESCRIPTIONMANUFACTURER/NOTES			DRAWN BY: W.R.M. CHECKED BY: W.W.S.			
PARTS			SEALS & SEALANTS			PLOT: 1=2 DATE: 04/11/13			
1	HEAD & JAMB FRAME	6063-T5 ALUMINUM	44	HEAD SEAL USED WITH LOCK OPTIONS 1 & 3	PEMKO 347_68R (ALUMINUM)	DATE			
2A	MEETING & HINGE VERTICAL PANEL SLATS (SMOOTH FINISH)	6063-T5 ALUMINUM	45	HEAD SEAL USED WITH LOCK OPTIONS 1 & 3	NATIONAL GUARD 123NAX124A (ALUMINUM)				
2B	MEETING & HINGE VERTICAL PANEL SLATS (FLUTED FINISH)	6063-T5 ALUMINUM	46	PILE SEAL	ULTRAFAB, INC. F-PILE				
3A	INTERMEDIATE VERTICAL PANEL SLATS (SMOOTH FINISH)	6063-T5 ALUMINUM	47	RIGID FOAM INSULATION	CROSS (POLYISOCYANURATE)				
3B	INTERMEDIATE VERTICAL PANEL SLATS (FLUTED FINISH)	6063-T5 ALUMINUM	48	BOTTOM DOOR SWEEP	PEMKO 345_V (ALUMINUM WITH VINYL SEAL)				
4	DOOR STOP	6063-T5 ALUMINUM	49	BOTTOM DOOR SWEEP	NATIONAL GUARD 345_V (ALUMINUM WITH VINYL SEAL)				
5	DOOR CAP	6063-T5 ALUMINUM	50	PERIMETER GASKET	PEMKO 306_V (ALUMINUM WITH VINYL SEAL)				
6	EXTERIOR GLAZING BEAD	6063-T5 ALUMINUM	51	PERIMETER GASKET	NATIONAL GUARD 190_V (ALUMINUM WITH VINYL SEAL)				
7	INTERIOR GLAZING BEAD	6063-T5 ALUMINUM	52	ASTRAGAL	NATIONAL GUARD 178SA (ALUMINUM WITH SILICONE SEAL)				
8	INTERIOR GLAZING BEAD COVER	6063-T5 ALUMINUM	53	PILE SEAL	ULTRAFAB, INC. D-PILE				
9	DOOR EDGE FILLER	6063-T5 ALUMINUM	54	SELF ADHESIVE GASKET	PEMKO 5110 (NEOPRENE/SILICONE)	BY			
10	INACTIVE PANEL EDGE FILLER	6063-T5 ALUMINUM	55	SELF ADHESIVE GASKET	NATIONAL GUARD 5100S (NEOPRENE/SILICONE)				
11	ACTIVE PANEL EDGE FILLER	6063-T5 ALUMINUM	56	GLAZING TAPE	NORSEAL V-SERIES (CLOSED CELL NEOPRENE)				
12	DOOR SPACER (ALLOWS PANEL MEMBERS TO REVERSE DIRECTION; 1 PER TOP & BOTTOM OF EACH PANEL)	6063-T5 ALUMINUM	FASTENERS						
13	LOCK & HINGE VERTICAL PANEL SLAT REINFORCEMENT (1 REQ'D AT ALL HINGE SLATS; 2 REQ'D AT SURFACE LOCK BOLT LOCATIONS WITH LOCK OPTIONS 2 & 3)	6063-T5 ALUMINUM	60	NO. 10 X 1" PHTF SCREW	3 PER HEAD TO JAMB CORNER INTO SCREW SPLINE				
14	INTERMEDIATE VERTICAL PANEL SLAT REINFORCEMENT	6063-T5 ALUMINUM	61	NO. 6 X 5/8" FHTF SCREW	THROUGH DOOR CAP INTO PANEL SLAT SCREW SPLINES				
15A	SILL	PEMKO 2005T (6063-T5 ALUMINUM)	62	1/4-20 X 1" FHM SCREW	4 PER ITEM 18				
15B	SILL	NATIONAL GUARD 896V (6063-T5 ALUMINUM)	63	1/4-20 X 3/8" PHM SCREW	2 PER ITEM 27				
18	MULLION TOP MOUNTING PLATE 3" X 2" X 5/8" THICK	6061-T6 ALUMINUM	64	12-24 X 5/8" FHM SCREW	2 9/16" FROM ENDS & 5 1/8" MAX. O.C.				
19	BUTT HINGE BACK-UP PLATE	6061-T6 ALUMINUM	65	12-24 X 5/8" FHM SCREW	4 PER ITEM 19				
20	1/4" X 1 1/4" X 14" LONG FLAT BAR AT CENTER LINE OF SILL	6061-T6 ALUMINUM	66	12-24 X 3/8" FHM SCREW	4 PER BUTT HINGE ITEMS 40 & 41				
22	INSULBAR	TECHNOFORM POLYIMIDE 66	67	5/16-18 X 1 1/4" FHM SCREW	2 PER ITEM 26				
HARDWARE			68	5/16-18 X 5/8" FHM SCREW	2 PER ITEM 26	NO.			
25	REMOVABLE MULLION ASSEMBLY (LOCK OPTION 1)	VON DUPRIN KR9954 (USED WITH ITEM 31)	69	NO. 8 X 5/8" FHTF SCREW	AT EVERY PANEL SLATE SCREW SPLINE; NOT REQUIRED WHERE ITEM 12 EXISTS				
26	TOP MULLION PLATE	SUPPLIED WITH PART ITEM 25 (ALL A36 STEEL)	70	NO. 10 X 3/4" PHTF SCREW	4" CROM CORNERS & MAX. 4" O.C.				
27	TOP MULLION PLATE FUSIBLE SPACER		71	3/8-16 ALL THREAD	PER PANEL CONSTRUCTION DETAIL ON SHEET 2				
28	LOCKING MULLION PLATE		72	3/8 LOCK WASHER					
29	3" X 2" X 1/8" TUBE MULLION		73	3/8-18 HEAVY DUTY NUT					
30	BOTTOM MULLION PLATE		74	12-24 X 1/4" FHM SCREW	4 PER ITEM 20				
31	3-POINT SURFACE VERTICAL ROD PANIC LOCK DEVICE (LOCK OPTION 1)	VON DUPRIN 9957NL-OP & 9957EOV 299F	<div>FLT-400 THERMAL ALUMINUM GLAZED IMPACT OUT-SWING DOOR</div> <div>MANUFACTURER: CROSS ALUMINUM PRODUCTS, INC. 1770 MAYFLOWER RD. NILES, MI 49120 800-806-3667</div> <div>CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 26376 NADIR ROAD; UNIT 309 PUNTA GORDA, FL 33983 PHONE: 561-744-3424</div> <div>CERTIFICATION: OCT 13 2022 WARREN W. SCHAEFER, P.E. No. 44135 STATE OF FLORIDA PROFESSIONAL ENGINEER</div> <div>PRODUCT REVISED as complying with the Florida Building Code NOA-No. 22-1027.07 Expiration Date: 09/26/2028 By: Manuel Perez Miami-Dade Product Control</div>						
32	PUSH-PULL HANDLE WITH LOCK OPTIONS 1 & 3	AS REQ'D WITH ITEM 31							
33	TOP & BOTTOM SURFACE BOLTS	HAGAR 276D							
34	TOP & BOTTOM FLUSH BOLTS	HAGAR 282							
35	DEAD BOLT (LOCK OPTION 2)	SARGENT 28-487							
36	PASSAGE LOCK (LOCK OPTION 2)	SARGENT 28-10G05-LL							
37	2-POINT CONCEALED VERTICAL ROD PANIC LOCK DEVICE (LOCK OPTION 3)	SARGENT MD8600							
38	CONTINUOUS GEAR HINGE	HAGAR 780-111HD (ALUMINUM)							
39	CONTINUOUS GEAR HINGE	SELECT PRODUCTS SL-18-HD (ALUMINUM)							
40	BUTT HINGE 4 1/2" X 4 1/2"	HAGAR BB-1199 (BRASS OR S.S.)							
41	BUTT HINGE 4 1/2" X 4 1/2"	MCKINEY T4A3786 (BRASS OR S.S.)							