



Product Approval
USER: Public User

[Product Approval Menu](#) > [Product or Application Search](#) > [Application List](#) > **Application Detail**

OFFICE OF THE
SECRETARY

| FL # | FL42032-R1 | | | | | | | | | | |
|--|---|-----------------|-------------|------------|------|---------|------|---------|------|---------|------|
| Application Type | Revision | | | | | | | | | | |
| Code Version | 2023 | | | | | | | | | | |
| Application Status | Approved | | | | | | | | | | |
| Comments | | | | | | | | | | | |
| Archived | <input type="checkbox"/> | | | | | | | | | | |
| Product Manufacturer | GIG Windows & Doors | | | | | | | | | | |
| Address/Phone/Email | 290 W 78 Road Hialeah, FL 33014 (305) 558-8103 tony@generalimpact.com | | | | | | | | | | |
| Authorized Signature | Jose Zuniga tony@generalimpact.com | | | | | | | | | | |
| Technical Representative | | | | | | | | | | | |
| Address/Phone/Email | | | | | | | | | | | |
| Quality Assurance Representative | | | | | | | | | | | |
| Address/Phone/Email | | | | | | | | | | | |
| Category | Windows | | | | | | | | | | |
| Subcategory | Horizontal Slider | | | | | | | | | | |
| Compliance Method | Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer <input type="checkbox"/> Evaluation Report - Hardcopy Received | | | | | | | | | | |
| Florida Engineer or Architect Name who developed the Evaluation Report | Walter A. Tillit Jr., P.E. | | | | | | | | | | |
| Florida License | PE-44167 | | | | | | | | | | |
| Quality Assurance Entity | National Accreditation and Management Institute | | | | | | | | | | |
| Quality Assurance Contract Expiration Date | 12/31/2026 | | | | | | | | | | |
| Validated By | John W. Knezevich, PE <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received | | | | | | | | | | |
| Certificate of Independence | FL42032_R1_COI_COI_Drwg_23-216_GIG_Windows_Doors.pdf | | | | | | | | | | |
| Referenced Standard and Year (of Standard) | <table border="0"> <thead> <tr> <th>Standard</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td>ASTM E1300</td> <td>2009</td> </tr> <tr> <td>TAS 201</td> <td>1994</td> </tr> <tr> <td>TAS 202</td> <td>1994</td> </tr> <tr> <td>TAS 203</td> <td>1994</td> </tr> </tbody> </table> | Standard | Year | ASTM E1300 | 2009 | TAS 201 | 1994 | TAS 202 | 1994 | TAS 203 | 1994 |
| Standard | Year | | | | | | | | | | |
| ASTM E1300 | 2009 | | | | | | | | | | |
| TAS 201 | 1994 | | | | | | | | | | |
| TAS 202 | 1994 | | | | | | | | | | |
| TAS 203 | 1994 | | | | | | | | | | |
| Equivalence of Product Standards Certified By | | | | | | | | | | | |
| Sections from the Code | | | | | | | | | | | |

Product Approval Method

Method 1 Option D

| | |
|---------------------------|------------|
| Date Submitted | 10/05/2023 |
| Date Validated | 10/11/2023 |
| Date Pending FBC Approval | 10/12/2023 |
| Date Approved | 12/13/2023 |

Summary of Products

| FL # | Model, Number or Name | Description |
|--|---|---|
| 42032.1 | Series 18000 High Impact Horizontal Sliding Window Large Missile Impact Resistant | Window System made of Laminated and Insulated Impact Resistant Glass retained by aluminum profile frame, wet glazed. |
| Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +varies/-varies Other: Large & Small Missile Impact Resistant, see General Notes No. 1 thru 5, and sheet 1 of installation Drawing No. 23-216. For A.S.D. Pressure rating, see schedules on installation Drawing No. 23-216. See Section 7 of the PER for additional limitations and conditions of use. | | Installation Instructions FL42032_R1_II_PED_Drwg_23-216_GIG_Windows_Doors.pdf Verified By: Walter A. Tillit Jr., P.E. PE 44167 Created by Independent Third Party: Yes Evaluation Reports FL42032_R1_AE_PER_Drwg_23-216_GIG_Windows_Doors.pdf Created by Independent Third Party: Yes |

[Back](#)

[Next](#)

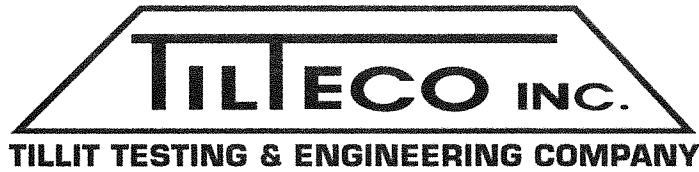
[Contact Us](#) :: [2601 Blair Stone Road, Tallahassee FL 32399](#) Phone: 850-487-1824

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Product Approval Accepts:





WALTER A. TILLIT, JR., P.E.

tilteco@aol.com
FL P.E. License No. 44167
FL C.A. License No. 0006719

CERTIFICATE OF INDEPENDENCE

Evaluation Report #: 23-0919.07

Date: September 19, 2023

Product Category: Windows

Product Subcategory: Horizontal Slider

Product Name: **SERIES 18000 HIGH IMPACT HORIZONTAL
SLIDING WINDOW LARGE MISSILE IMPACT
RESISTANT**

Manufacturer Name: **GIG WINDOWS & DOORS.**
290 West 78th Road
Hialeah, FL 33014

Dear Sir (Madam):

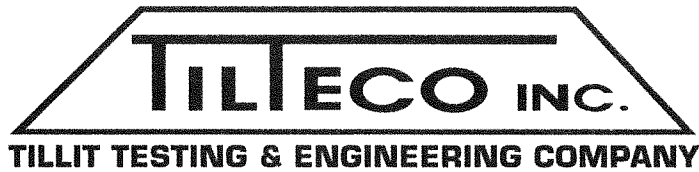
This is to certify that this Florida Professional Engineer, performing this evaluation does not have nor will acquire, a financial interest in any company manufacturing or distributing products for which the reports are being issued.

This is also to certify that this Florida Professional Engineer performing this evaluation does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.

Certificate of Independence prepared by Walter A. Tillit, Jr., P.E. (Florida License No. 44167), President of Tilteco, Inc. (Florida CA-0006719).

WATMA

D:\TILTECO ADMON RECORDS \ CERTIFICATION OF INDEPENDENCE \ GIG WINDOWS & DOORS \ SERIES 18000 HIGH IMPACT HORIZONTAL SLIDING WINDOW LARGE MISSILE IMPACT RESISTANT \ EVALUATION REPORT # 23-0919.07



WALTER A. TILLIT, JR., P.E.

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FL P.E. License No. 44167
FL C.A. License No. 0006719

PRODUCT EVALUATION REPORT

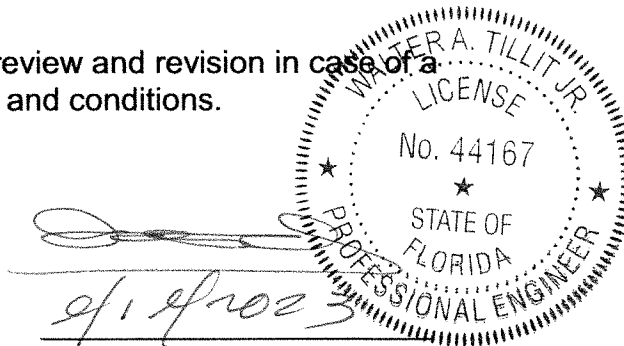
REPORT No.: 23-0919.07
DATE: September 19, 2023
PRODUCT CATEGORY: Windows
PRODUCT SUB-CATEGORY: Horizontal Slider
PRODUCT NAME: SERIES 18000 HIGH IMPACT HORIZONTAL
SLIDING WINDOW LARGE MISSILE IMPACT
RESISTANT
MANUFACTURER: GIG WINDOWS & DOORS
290 West 78th Road
Hialeah, FL 33014

1. PURPOSE OF EVALUATION:

This is a Product Evaluation Report issued by **Walter A. Tillit, Jr., P.E.** (System ID # 1906) to **GIG WINDOWS & DOORS**, based on **Rule Chapter No. 61G20-3, Method 1D** of the Florida Department of Business and Professional Regulation.

This product is being issued an Evaluation Report as described herein and has been verified for compliance in accordance with the 2023 8th Edition of the Florida Building Code, and to verify that the product is for the purpose intended at least equivalent to that required by the Code.

This Product Evaluation Report shall be subject to review and revision in case of a Building Code change that may affect its limitations and conditions.



2. EVIDENCE SUBMITTED:

2.1. PRODUCT EVALUATION DOCUMENT (P.E.D.):

Drawing No. 23-216 titled “**SERIES 18000 HIGH IMPACT HORIZONTAL SLIDING WINDOW LARGE MISSILE IMPACT RESISTANT**” sheets 1 thru 14 of 14 prepared by **Tilteco, Inc.**; signed and sealed by **Walter A. Tillit, Jr., P.E.**; dated **9/13/2023**. This drawing is an integral part of this Evaluation Report.

2.2. TEST REPORTS:

Impact and Cyclic Tests as per protocol TAS-201, TAS-203, Uniform Static Load as per Protocol TAS 202 per sections 1626 and 1609.1.2, respectively of the Florida Building Code.

Test reports prepared by Fenestration Testing Lab Inc., Report No.5954, signed and sealed by Julio E Gonzalez, P.E.

2.3. STRUCTURAL ENGINEERING CALCULATIONS:

On Series 18000 high impact horizontal sliding window large missile impact resistant for Maximum Pressure Rating vs. Maximum anchor spacing, maximum width and height, and Maximum Glass Size, based on rational and comparative analysis, in accordance with sections 1604 and 1616 of the Florida Building Code. Calculations prepared by Tilteco, Inc., dated 06/04/2015, signed and sealed by Walter A. Tillit, Jr., P.E. Glass verified per ASTM – E-1300- 9a, per section 2404.1 of the Florida Building Code.

3. MISSILE IMPACT RESISTANCE:

Large Missile Impact resistance is provided per TAS 201 (9 lbs., 50 feet/sec).

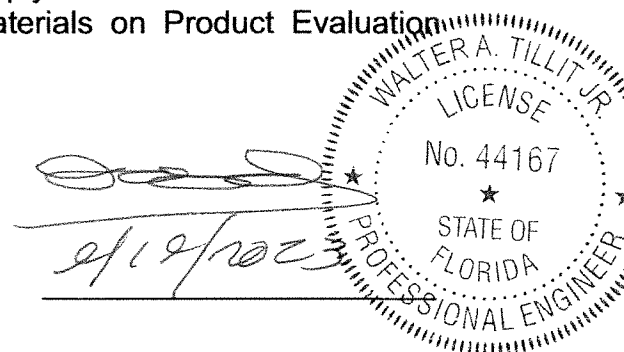
4. WIND LOADS RESISTANCE:

On Series 18000 high impact horizontal sliding window large missile impact resistant has been verified to keep sustain wind pressures. Maximum Glass Panel Dimensions, window dimensions shall be as indicated on Product Evaluation Document (P.E.D.), Drawing No. **23-216**.

5. INSTALLATION:

Installation shall be performed strictly in accordance with General Notes # 2 thru 13, indicated on sheet 1 and details indicated on Product Evaluation Document (P.E.D.), drawing No.**23-216**.

Gaskets and setting blocks used at installations comply with section 2411.3.4 of the Florida Building Code as specified on Bill of Materials on Product Evaluation Document (P.E.D.), drawing No. **23-216**



6. MATERIAL CHARACTERISTICS AND SPECIFICATIONS:

Shall be strictly in accordance with General Notes and Components indicated on Product Evaluation Document (P.E.D.), **Drawing No. 23-216.**

Anchor specifications shall be as indicated on sheet 1, of Product Evaluation Document (P.E.D.), Drawing No. **23-216.** Max anchor spacing shall be per P.E.D. Drawing No **23-216.**

7. LIMITATIONS AND CONDITIONS OF USE:

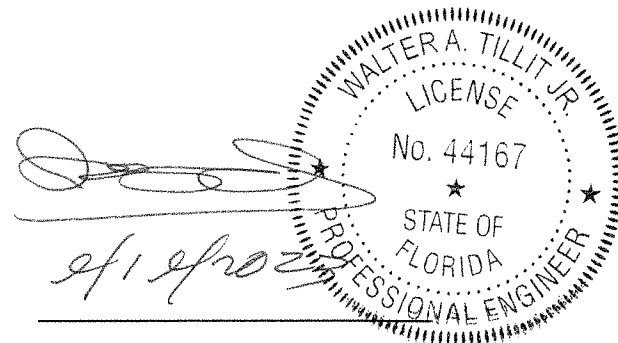
7.1. Shall be strictly in compliance with General Notes No. 1 thru 5, indicated on sheet 1 of Product Evaluation Document (P.E.D.), Drawing No. **23-216** prepared by Tilteco, Inc. and signed and sealed by Walter A. Tillit, Jr., P.E.

7.2. Product **may** be installed within HIGH VELOCITY HURRICANE ZONES as defined on section 202 of the Florida Building Code and out of it.

7.3. Product shall only be installed into substrates with limitations as indicated on Product Evaluation Document (P.E.D.), Drawing No. **23-216.**

Product Evaluation Report prepared by Walter A. Tillit, Jr., P.E. (Florida License No. 44167), President of Tilteco, Inc. (Florida CA-0026719).

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D:\TILTECO ADMON RECORDS \ P. E. REPORT.23 \ GIG WINDOWS & DOORS \ SERIES 18000 HIGH IMPACT HORIZONTAL SLIDING WINDOW LARGE MISSILE IMPACT RESISTANT\ DRWG # 23-216\ REPORT # 23-0919.07



GENERAL NOTES:

1. SERIES 18000 HIGH IMPACT HORIZONTAL SLIDING WINDOW LARGE MISSILE IMPACT RESISTANT, SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH **THE 2023 (8th EDITION) OF THE FLORIDA BUILDING CODE**. SERIES 18000 HIGH IMPACT HORIZONTAL SLIDING WINDOW LARGE MISSILE IMPACT RESISTANT, MAY BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES. (H.V.H.Z.) OR OUT OF IT (N.H.V.H.Z.)

DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTIONS 1620 AND 1609 OF THE ABOVE MENTIONED CODE, USING **ASCE 7-22** AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON NOTE 2 BELOW.

IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER **ASCE 7-22** SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE W/ MAX. (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON NOTE 2 BELOW.

IN ORDER TO VERIFY THAT ANCHORS ON THIS P.E.D., AS TESTED, WERE NOT OVER STRESSED, A 33% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS **NOT** USED IN THEIR ANALYSIS. ANCHOR'S SPACING TO WOOD HAS BEEN DETERMINED IN ACCORDANCE WITH N.D.S. 2018.

THIS WINDOW'S ADEQUACY FOR IMPACT AND FATIGUE RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTIONS 1626 AND 1609.1.2 OF THE ABOVE MENTIONED CODE AS PER PROTOCOLS TAS-201, TAS-202, TAS-203, PER FENESTRATION TESTING LABORATORY REPORT # 5954 AND AS PER SUBMITTED STRUCTURAL CALCULATIONS, PERFORMED AS PER SECTIONS 1616 AND 1604 OF THE FLORIDA BUILDING CODE. GLASS HAS BEEN VERIFIED PER ASTM E-1300, PER SECTION 2404.1 OF THE FLORIDA BUILDING CODE.

2. **MAXIMUM A.S.D. DESIGN PRESSURE RATINGS FOR THESE WINDOWS SHALL BE AS SHOWN ON SHEET 12 (SCHEDULE #1). MAXIMUM ANCHOR SPACING SHALL BE AS PER SCHEDULE # 2, SHEET 12.**

3. **THIS SERIES 18000 HIGH IMPACT HORIZONTAL SLIDING WINDOW LARGE MISSILE IMPACT RESISTANT, WILL NOT REQUIRE A HURRICANE PROTECTION DEVICE.**

4. **THIS SERIES 18000 HIGH IMPACT HORIZONTAL SLIDING WINDOW LARGE MISSILE IMPACT RESISTANT, IS APPROVED FOR AIR AND WATER INFILTRATION. (SEE SCHEDULE # 1 ON SHEET 12).**

5. SERIES 18000 HIGH IMPACT HORIZONTAL SLIDING WINDOW LARGE MISSILE IMPACT RESISTANT, SHALL COMPLY WITH SECTION 2406 OF THE FLORIDA BUILDING CODE.

6. ALL ALUMINUM EXTRUSIONS IN CONTACT WITH DISSIMILAR MATERIALS SHALL COMPLY WITH SECTION III-6 OF THE 2020 ALUMINUM DESIGN MANUAL.

7. 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 AND SECTION 2411.3.3.4 OF THE FLORIDA BUILDING CODE WITH 50 ksi YIELD STRENGTH AND 90 ksi TENSILE STRENGTH.

8. WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE BUILDING STRUCTURE. WOOD BUCKS MUST BE SOUTHERN PINE WITH G = 0.55, AND SHALL COMPLY WITH SECTIONS 2411.3.3.3 AND 2411.3.3.4 OF THE FLORIDA BUILDING CODE.

(8.1) 2X WOOD BUCKS MUST BE PROPERLY ANCHORED TO EXISTING STRUCTURE TO TRANSFER LOADS TO IT. ANCHORAGE IS INDEPENDENT OF WINDOW FRAME ANCHORAGE. DOOR FRAME MUST BE SEPARATELY ANCHORED TO 2X WOOD BUCK FOLLOWING DETAILS ON THIS DRAWING.

(8.2.) 1X WOOD BUCK (OR ANY WOOD BUCK LESS THAN 2X) MUST BE PROPERLY ANCHORED TO EXISTING STRUCTURE TO TRANSFER LOADS TO IT. WINDOW FRAME ANCHOR SHALL BE USE TO ATTACH 1X WOOD BUCK TO EXISTING STRUCTURE BY DRIVING ANCHOR THRU BOTH WINDOW FRAME & 1X WOOD BUCK INTO EXISTING STRUCTURE W/PROPER EMBEDMENT AND EDGE DISTANCE AS SHOWN ON THIS DRAWING.

(8.3.) WINDOW FRAME MAY BE DIRECTLY CONNECTED TO EXISTING STRUCTURE WITH NO NEED OF WOOD BUCKS WHEN MASONRY OPENING IS NOT LARGER THAN ACTUAL WINDOW OVERALL DIMENSIONS. HOWEVER, SHIMS (SEE NOTE 10) MAY BE ALLOWED AT WINDOW FRAME ANCHOR LOCATION IF NEEDED.

9. ANCHOR NOTES: EMBEDMENT AND EDGE DISTANCE ARE BEYOND ANY FINISH.

- (A) TO EXISTING POURED CONCRETE: (MIN. f'c = 3192 PSI), MIN. EDGE DISTANCE (E.D.) = 2 1/2".
- 1/4"Ø TAPCON ANCHORS 1 1/4" MIN. EMBEDMENT, AS MANUFACTURED BY ITW BUILDEX, INC. (COMPONENT 25), THRU 1" P.T. WOOD BUCK.
- (B) TO EXISTING A.S.T.M. C-90 CONCRETE BLOCK WALL. MIN. EDGE DISTANCE (E.D.) = 2 1/2".
- 1/4"Ø TAPCON ANCHORS W/ 1 1/4" MIN. EMBEDMENT, AS MANUFACTURED BY ITW BUILDEX, INC. (COMPONENT 25), THRU 1" P.T. WOOD BUCK.
- (C) TO EXISTING 2x P.T. WOOD BUCK. MIN. EDGE DISTANCE (E.D.) = 1".
- 1/4"Ø-14 TEK SCREW OR 1/4"Ø TAPCON W/ 1 1/2" MIN. EMBEDMENT, AS MANUFACTURED BY ITW BUILDEX, INC. (COMPONENT 26).
- (D) TO EXISTING MIN. 3/8" THICK ALUMINUM MULLION (6063-T5 ALLOY), MIN. EDGE DISTANCE (E.D.) = 1/2".
- 1/4"Ø-14x3/4"(MIN.) TEK SCREW, AS MANUFACTURED BY ITW BUILDEX, INC. (COMPONENT 26).
- (E) TO EXISTING MIN. 12 GAGE (0.106") STEEL MEMBER (ASTM A-500, A-653 OR A-36), MIN. EDGE DISTANCE (E.D.)=1/2".
- 1/4"Ø-14x3/4"(MIN.) TEK SCREW, AS MANUFACTURED BY ITW BUILDEX, INC. (COMPONENT 26).

10. PROVIDE 1/4" MAX. LOAD BEARING SHIM SPACE (TYP.).

11. REMAINING COMPONENTS FOR THIS SERIES 18000 HIGH IMPACT HORIZONTAL SLIDING WINDOW LARGE MISSILE IMPACT RESISTANT, SHALL BE AS INDICATED ON BILL OF MATERIALS, ON SHEET 3 OF THIS DRAWING.

12. SERIES 18000 HIGH IMPACT HORIZONTAL SLIDING WINDOW LARGE MISSILE IMPACT RESISTANT, MANUFACTURER LABEL SHALL BE PLACED ON A READILY VISIBLE LOCATION AT PRODUCE IN ACCORDANCE WITH SECTION 1709.5 OF THE FLORIDA BUILDING CODE. ONE LABEL SHALL BE PLACED FOR EVERY UNIT.

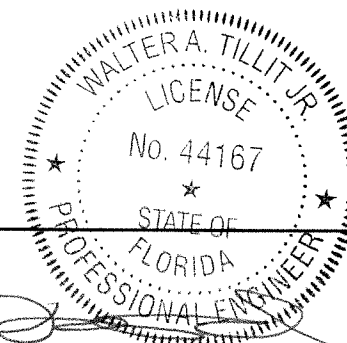
13. (a) THIS P.E.D. PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.

(b) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT, BASED ON THIS P.E.D., PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.

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

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

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



9/19/2023
P.E. SEAL/SIGNATURE/DATE

© 2023 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

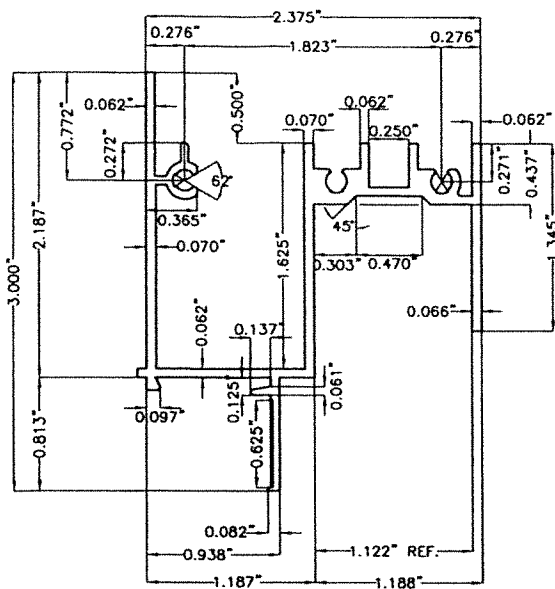
FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)

SERIES 18000 HIGH IMPACT HORIZONTAL SLIDING WINDOW LARGE MISSILE IMPACT RESISTANT

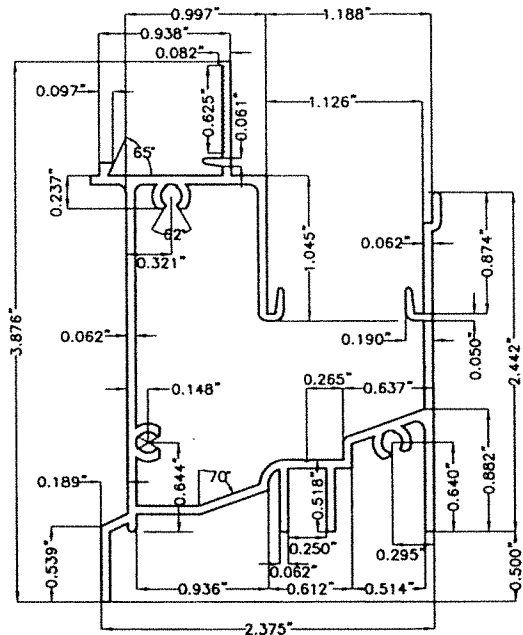
290 WEST 78 ROAD
HIALEAH, FL 33014
PH: (954)226-5555/(305)558-8103
FAX: (305)558-6665
www.gigwindows.com

DRAWN BY: W.H
09/13/2023 DATE
23-216 DRAWING No
SHEET 1 OF 14

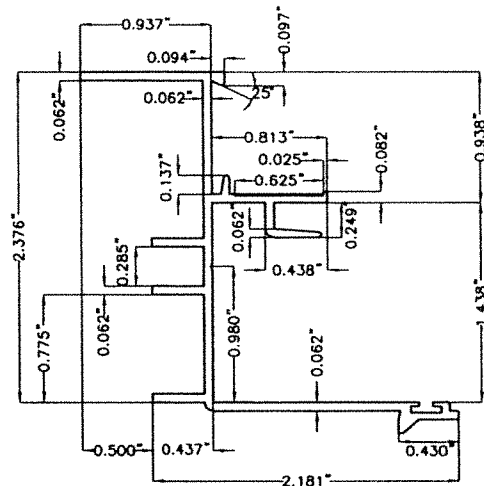
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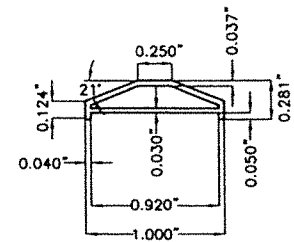
① FRAME HEAD
6063-T6 ALLOY & TEMPER



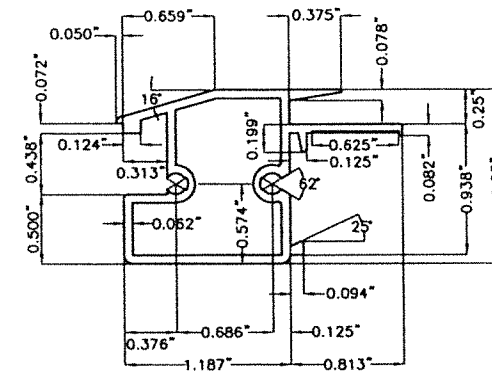
② FRAME SILL
6063-T6 ALLOY & TEMPER



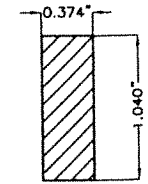
③ FRAME JAMB
6063-T6 ALLOY & TEMPER



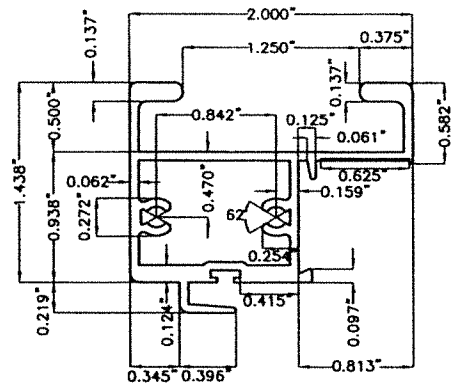
④ COLONIAL MUNTIN
6063-T6 ALLOY & TEMPER



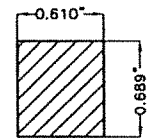
⑤ FIXED MEETING STILE
6063-T6 ALLOY & TEMPER



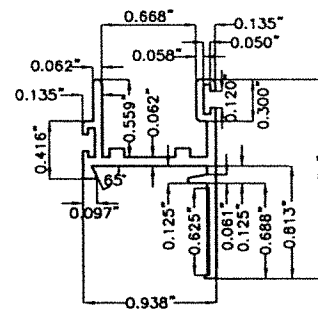
⑤A ALUM. INSERT BAR FOR ⑤
6063-T6 ALLOY & TEMPER



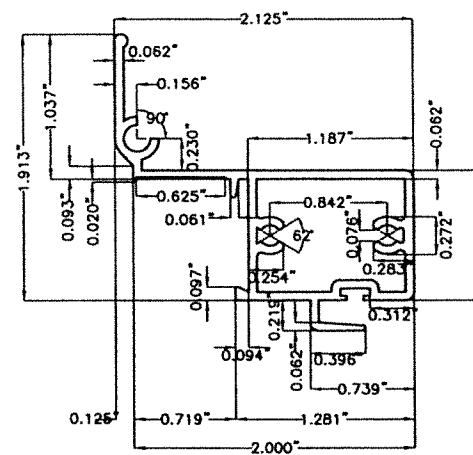
⑥ H.D. VENT MEETING STILE
6063-T6 ALLOY & TEMPER



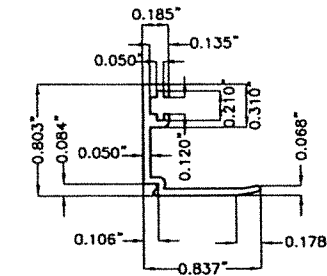
⑥A ALUM. INSERT BAR FOR ⑥
6063-T6 ALLOY & TEMPER



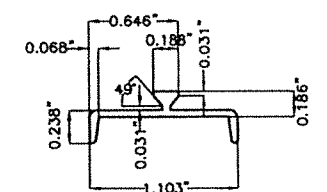
⑦ TOP AND BOTTOM RAIL
6063-T6 ALLOY & TEMPER



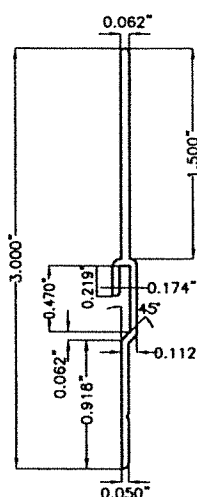
⑧ JAMB STILE
6063-T6 ALLOY & TEMPER



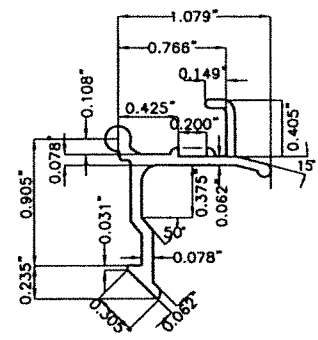
⑧A GLAZING BEAD FOR 7/16" GLASS
6063-T6 ALLOY & TEMPER



⑩ SILL TRACK INSERT
6063-T6 ALLOY & TEMPER



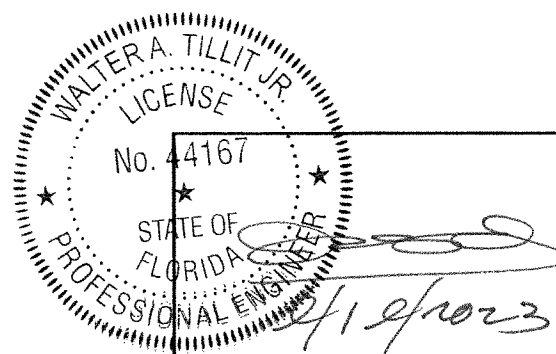
⑪ SILL RISER
6063-T6 ALLOY & TEMPER



⑫ VENT LATCH
6063-T6 ALLOY & TEMPER
4" LONG

COMPONENTS

SCALE 3/4"=1"



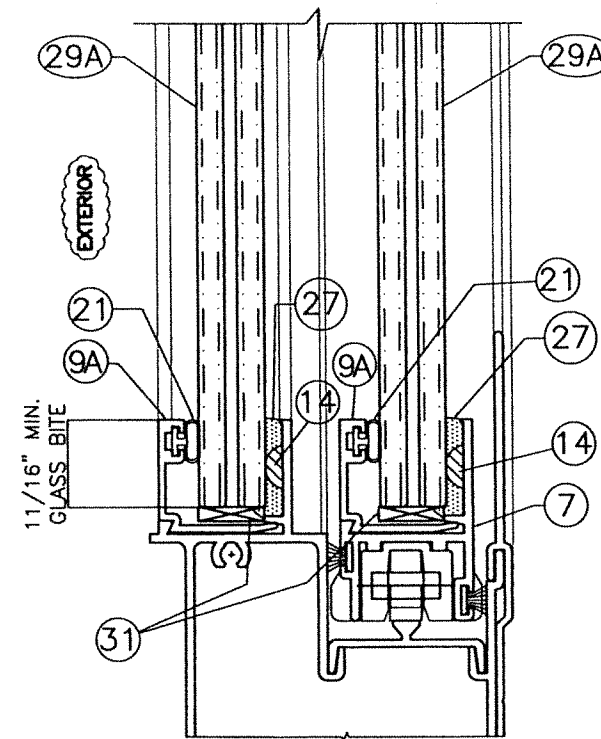
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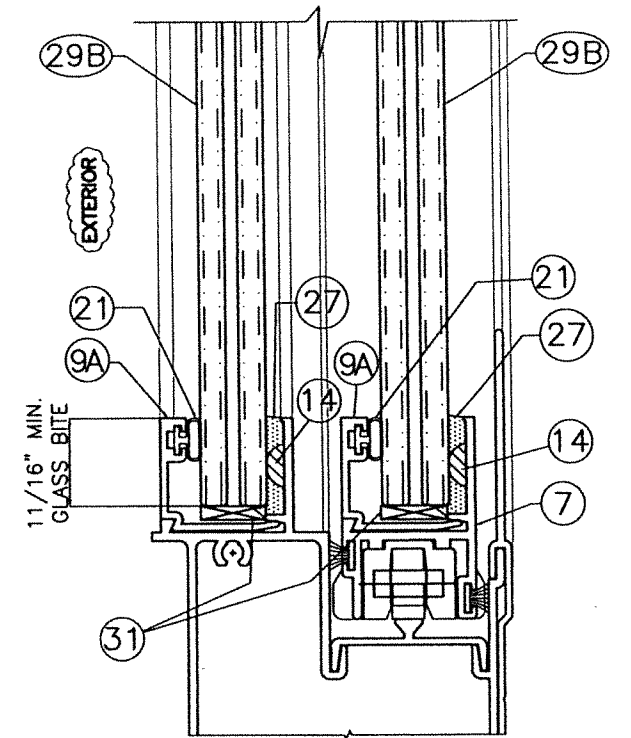
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BILL OF MATERIALS

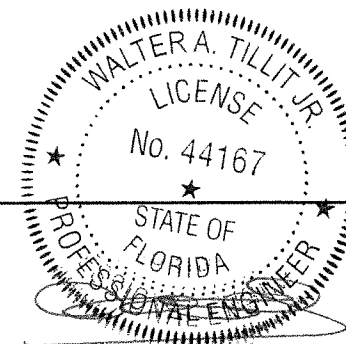
| ITEM | QUANTITY | DESCRIPTION | MATERIAL |
|------|-----------------------|---|------------------|
| 1 | 1 | FRAME HEAD | 6063-T6 |
| 2 | 1 | FRAME SILL | 6063-T6 |
| 3 | 2 | FRAME JAMB | 6063-T6 |
| 4 | | COLONIAL MUNTIN (OPTIONAL) | 6063-T6 |
| 5 | 1/ VENT | FIXED MEETING STILE | 6063-T6 |
| 5A | 1/ BAR | ALUMINUM BAR INSERT FOR ⑤ | 6063-T6 |
| 6 | 1/ VENT | H.D. VENT MEETING STILE | 6063-T6 |
| 6A | 1/ BAR | ALUMINUM BAR INSERT FOR ⑥ | 6063-T6 |
| 7 | 2/ VENT | TOP AND BOTTOM RAIL | 6063-T6 |
| 8 | 1/ VENT | JAMB STILE | 6063-T6 |
| 9A | AS REQD. | GLAZING BEAD FOR 7/16" GLASS | 6063-T6 |
| 10 | 1 | SILL TRACK INSERT | 6063-T6 |
| 11 | AS REQD. | SILL RISER | 6063-T6 |
| 12 | 2/ VENT | VENT LATCH AT 9 1/2" FROM ENDS, 3" LONG | 6063-T6 |
| 13 | 1/ LATCH | VENT LATCH SPRING | ST. STEEL |
| 14 | | BUMPON SPACER, 1/4" DIAMETER HALF SPHERE, CLEAR. 3" FROM CORNERS MAX. AND 12" O.C. (MAX.), AT MID-GLASS BITE ELEVATION, BY FRANK LOWE RUBBEL AND GASKET FLB-28, CLEAR. | SILICONE |
| 15 | AS REQD. | FRAME/VENT ASSEMBLY SCREWS, #8 x 1" P.H. SMS, CRS | --- |
| 16 | 2/ VENT | FRAME SILL SCREWS CONNECTING TO ⑤, #8 x 3 1/2" P.H. SMS, CRS | --- |
| 17 | AS REQD. | VENT & FIX. RAIL W'STRIPPING, AMESBURY OR EQUIV. | --- |
| 18 | AS REQD. | FRAME W'STRIPPING, AMESBURY OR EQUIV. | --- |
| 19 | 2 | BAFFLE, M & M PLASTICS | --- |
| 20 | 2/ BAFFLE | BAFFLE SCREW, #8 x 1/2" F.H. SMS | --- |
| 21 | AS REQD. | GLAZING BULB VINYL | NEOPRENE |
| 22 | 4/ VENT | ROLLER HOUSING & GUIDE | CELCON |
| 23 | 2/ VENT | ROLLER | BRASS/ST. ST. |
| 24 | 2/ VENT | ROLLER PIN | ST. STEEL |
| 25 | | ANCHORS, 1/4" TAPCON F.H. ANCHOR, ITW BUILDEX, INC. | STEEL |
| 26 | | ANCHORS, 1/4" -14 TEK SCREW ITW BUILDEX, INC. TO WOOD BUCK, ALUMINUM OR STEEL MEMBER. | STEEL |
| 27 | | DOW CORNING 795 | STRUCT. SILICONE |
| 28 | | SEALANT: DOW CORNING WHITE SILICONE OR EQUAL AT FRAME ALL AROUND (EXTERIOR & INTERIOR) | SILICONE |
| 29A | | 7/16" NOMINAL (0.444" OVERALL) LAMINATED GLASS WITH (1) 3/16" HEAT STRENGTHENED GLASS + A 0.090" TROSIFOL® PVB INTERLAYER BY KURARAY AMERICA, INC. + (1) 3/16" HEAT STRENGTHENED GLASS. | LAMINATED GLASS |
| 29B | | 7/16" NOMINAL (0.444" OVERALL) LAMINATED GLASS WITH (1) 3/16" HEAT STRENGTHENED GLASS + A 0.090" SENTRYGLAS® INTERLAYER BY KURARAY AMERICA, INC. + (1) 3/16" HEAT STRENGTHENED GLASS. | LAMINATED GLASS |
| 30 | (1) EACH WEEP HOLE | 1"x1"x3" LONG WEEP HOLE RETICULATED FOAM GASKET, MODEL 10PPI, BY FRANK LOWE RUBBER & GASKET CO. | FILTER FOAM |
| 31 | AS REQ'D | SETTING BLOCK | EPDM |




GLAZING DETAIL FOR ②⑨A
SCALE 3/4" = 1"




GLAZING DETAIL FOR ②⑨B
SCALE 3/4" = 1"


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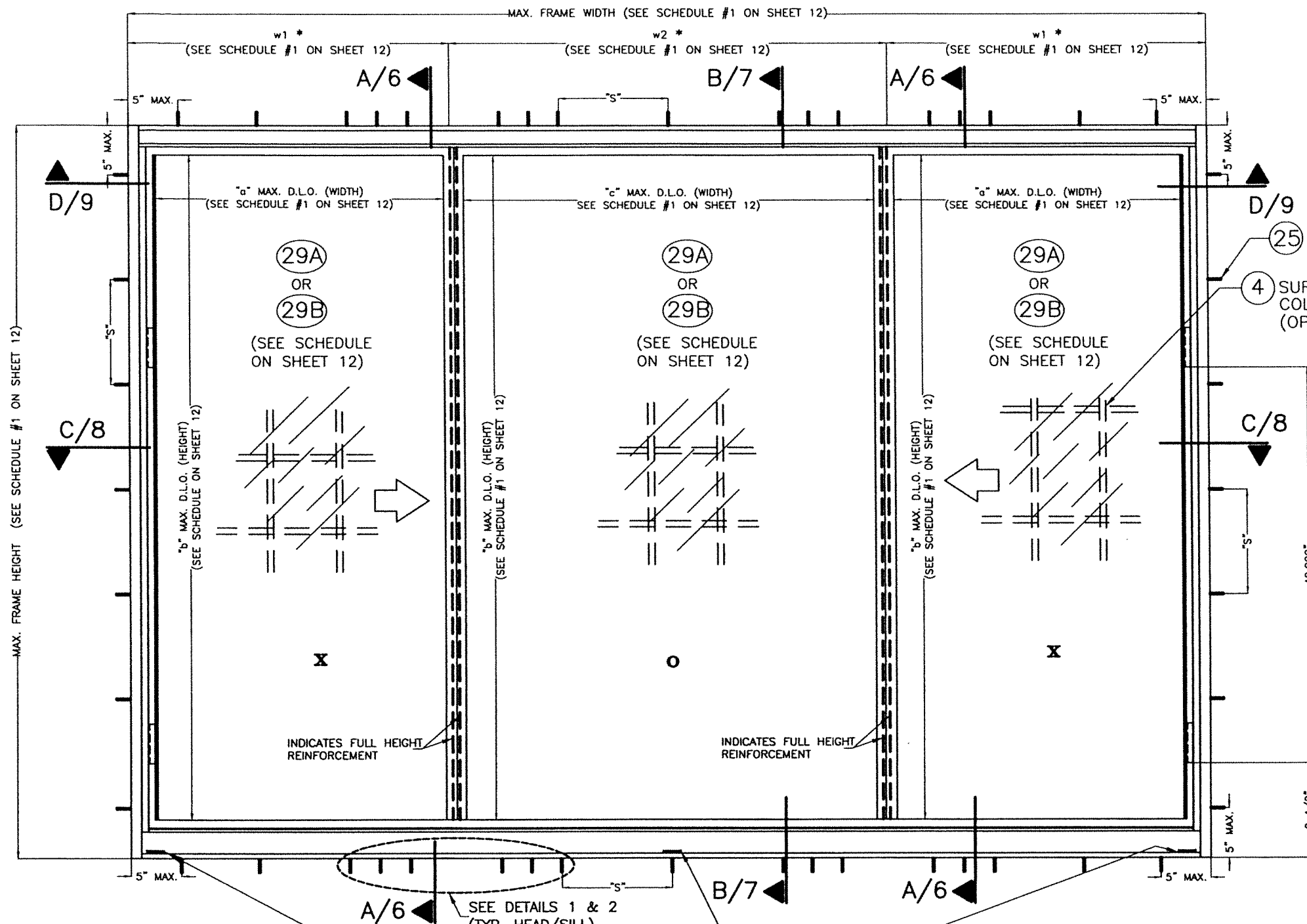
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 09/13/2023
 DATE
23-216
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 SHEET 3 OF 14



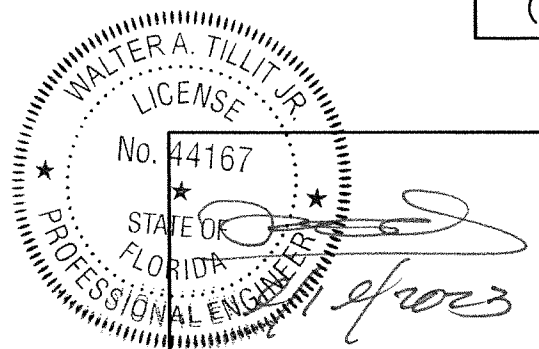
(25) or (26) AS APPLICABLE
 (4) SURFACE APPLIED COLONIAL MUNTINS (OPTIONAL)

*** NOTE:**
 w1 AND w2 MAY BE DIFFERENT FROM EACH OTHER BUT THEY SHALL BE SUCH THAT (2)w1 + w2 DOES NOT EXCEED MAXIMUM FRAME WIDTH INDICATED ON SCHEDULE #1 (SHEET 12).
 ADDITIONALLY, DAYLIGHT OPENINGS "a" AND "c", CREATED BY w1 AND w2 SHALL BE SUCH THAT MAXIMUM DAYLIGHT OPENINGS VALUES INDICATED ON SCHEDULE #1 (SHEET 12) ARE NOT EXCEEDED.

"S" = Max. ANCHOR SPACING
 (See schedule #2 on sheet 12)

(3) 1 3/4"x1/4" HIGH WEEP HOLE AT 3 1/4" FROM ENDS AND ONE AT MIDSPAN

TYPICAL EXTERIOR ELEVATION FOR XOX WINDOW
 SCALE 1"=1'-0



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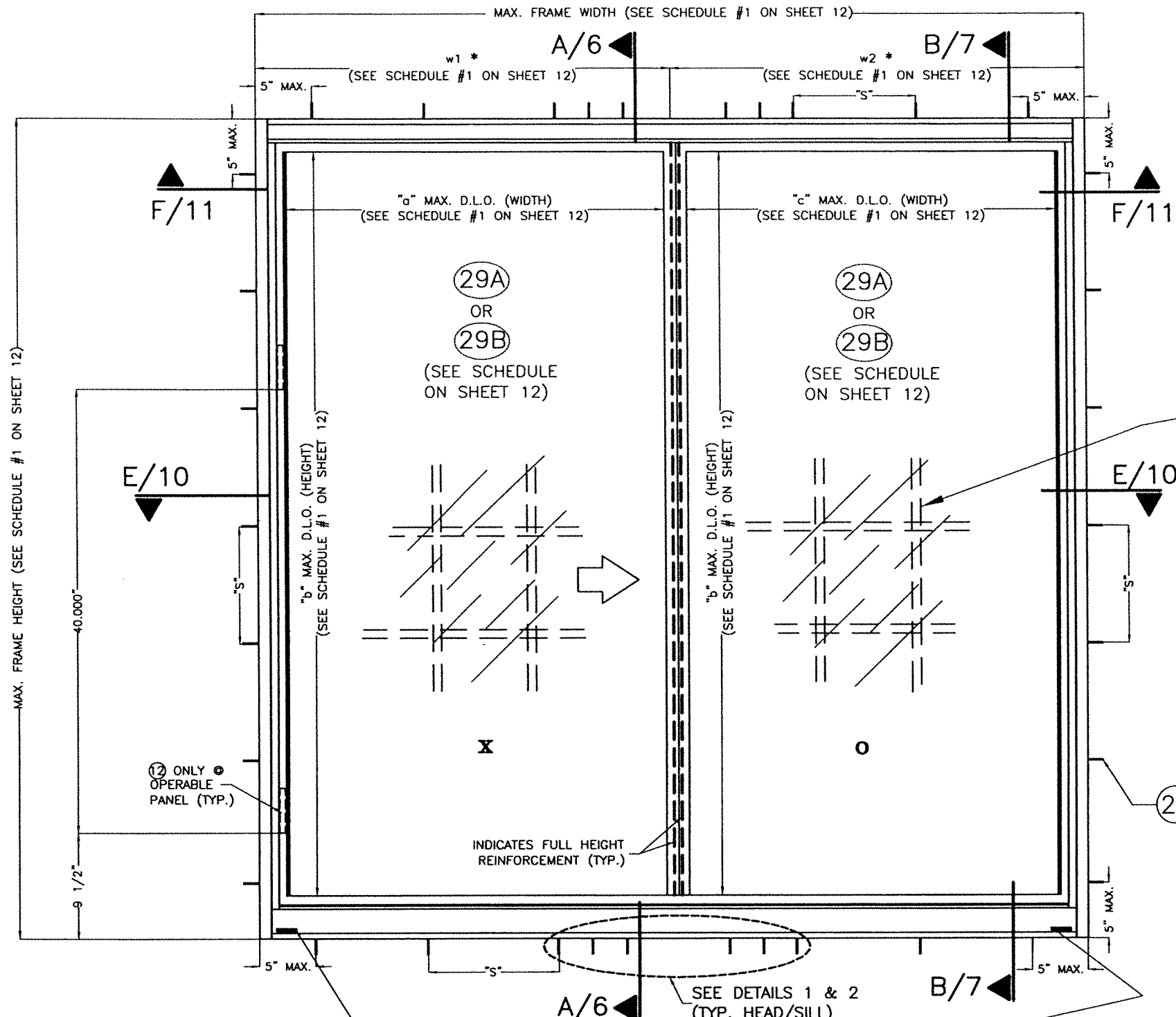
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SHEET 4 OF 14



④ SURFACE APPLIED. COLONIAL MUNTINS (OPTIONAL)

*** NOTE:**
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 ADDITIONALLY, DAYLIGHT OPENINGS "a" AND "c", CREATED BY w1 AND w2 SHALL BE SUCH THAT MAXIMUM DAYLIGHT OPENINGS VALUES INDICATED ON SCHEDULE #1 (SHEET 12) ARE NOT EXCEEDED.

②⑤ or ②⑥ AS APPLICABLE

"S" = Max. ANCHOR SPACING
 (See schedule #2 on sheet 12)

①⑨ + ②⑩
 (2) 1 3/4"x1/4" HIGH WEEP HOLE AT 3 1/4" FROM ENDS AND ONE AT MIDSPAN

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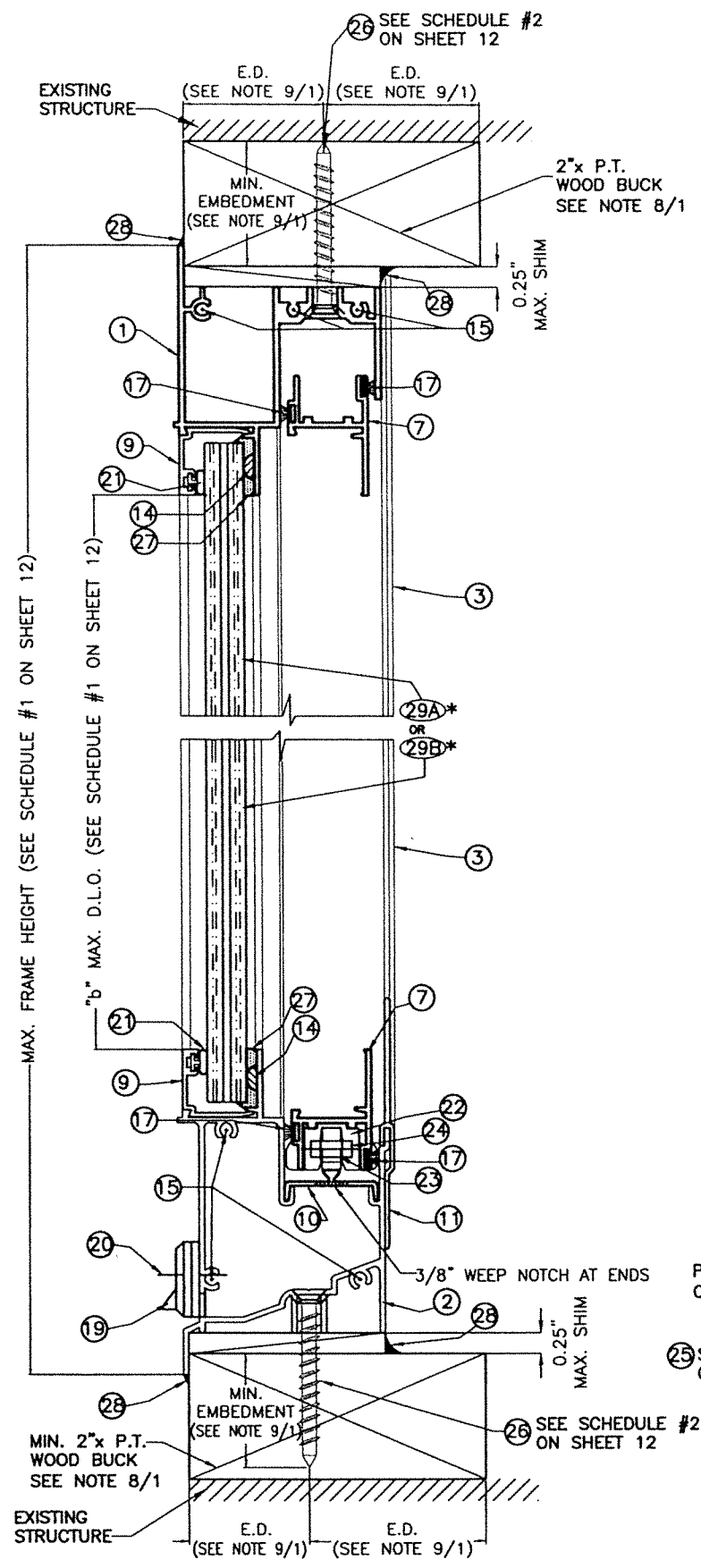
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SHEET 5 OF 14

**TYPICAL EXTERIOR
 ELEVATION FOR XO (SHOWN)
 OR OX (SIMILAR) WINDOW**
 SCALE 1"=1'-0

EXTERIOR

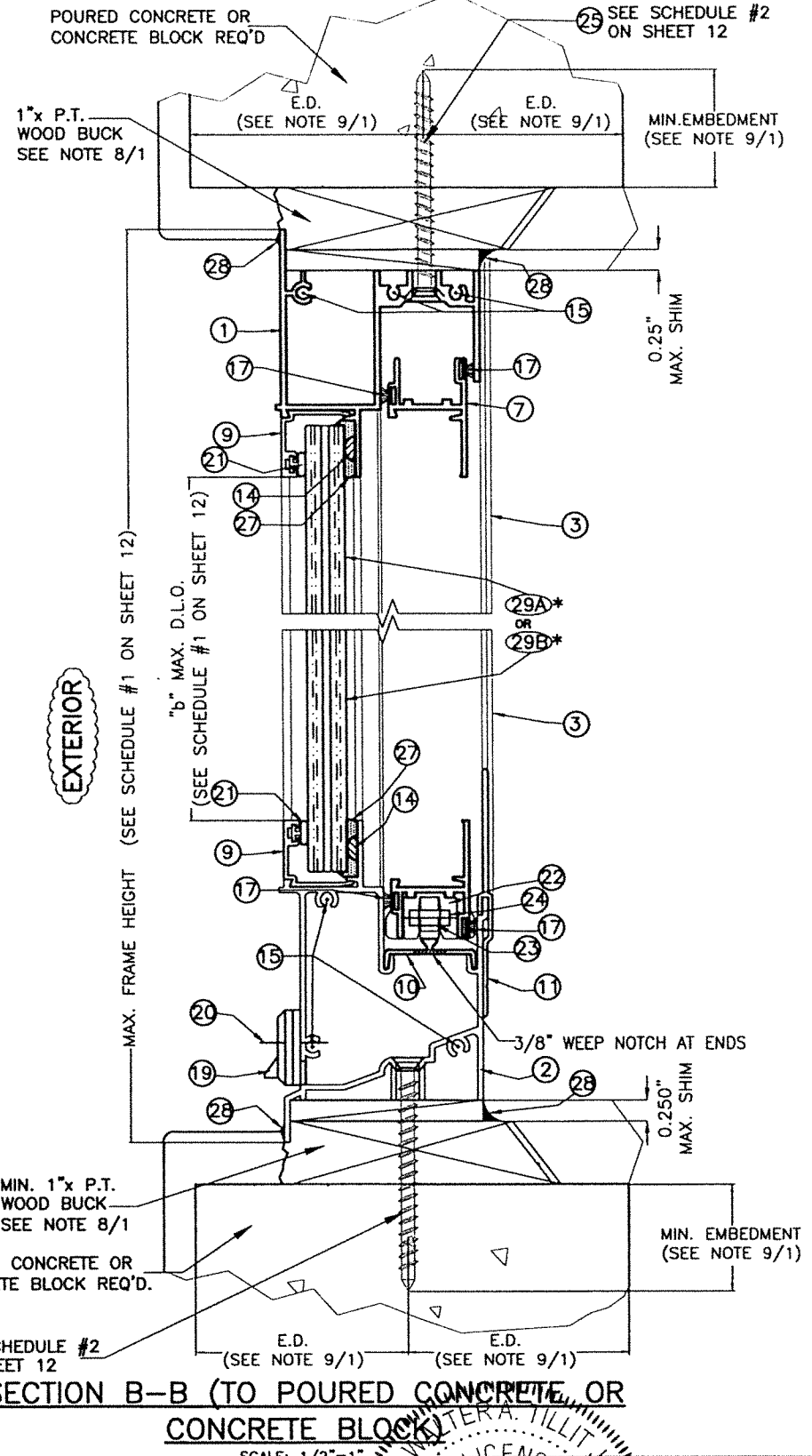


SECTION B-B (TO WOOD)

SCALE: 1/2"=1"

* SEE SCHEDULE #1 ON SHEET 12

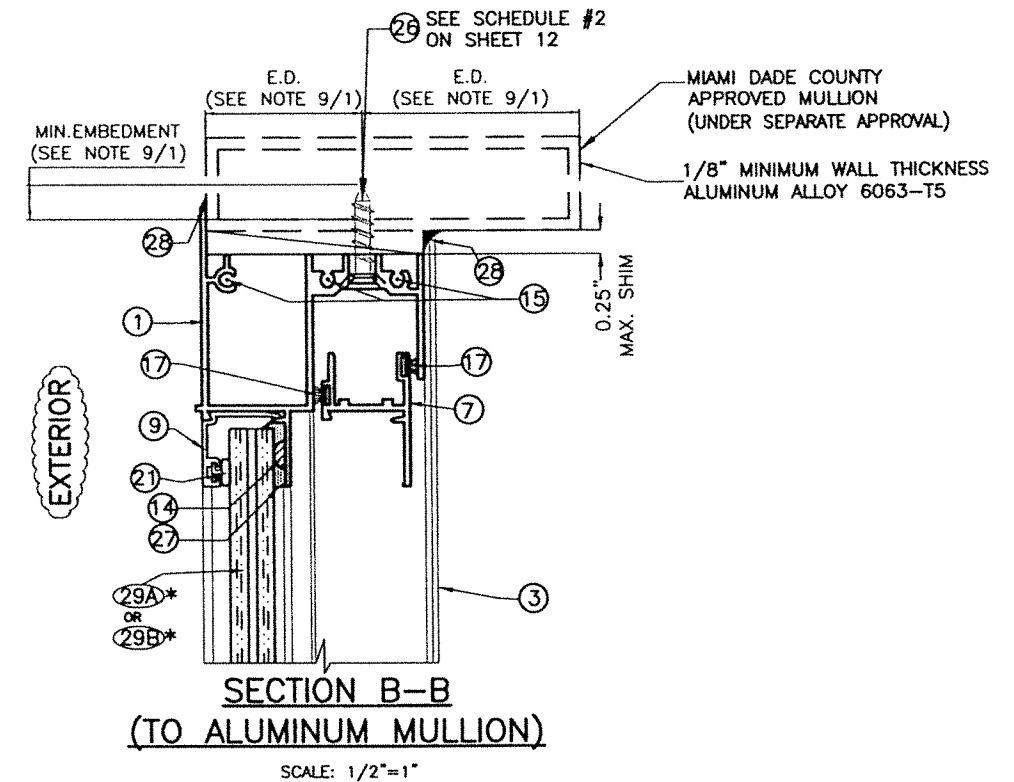
EXTERIOR



SECTION B-B (TO POURED CONCRETE OR CONCRETE BLOCK)

SCALE: 1/2"=1"

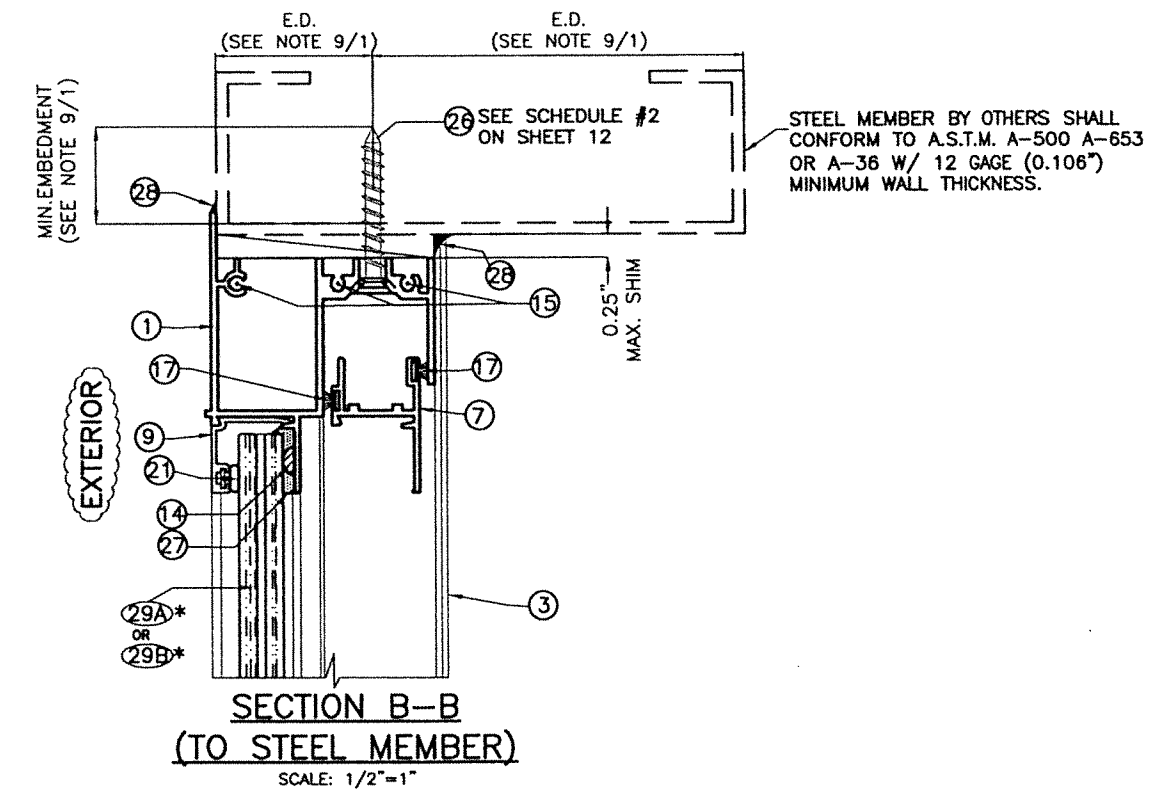
EXTERIOR



SECTION B-B (TO ALUMINUM MULLION)

SCALE: 1/2"=1"

EXTERIOR



SECTION B-B (TO STEEL MEMBER)

SCALE: 1/2"=1"

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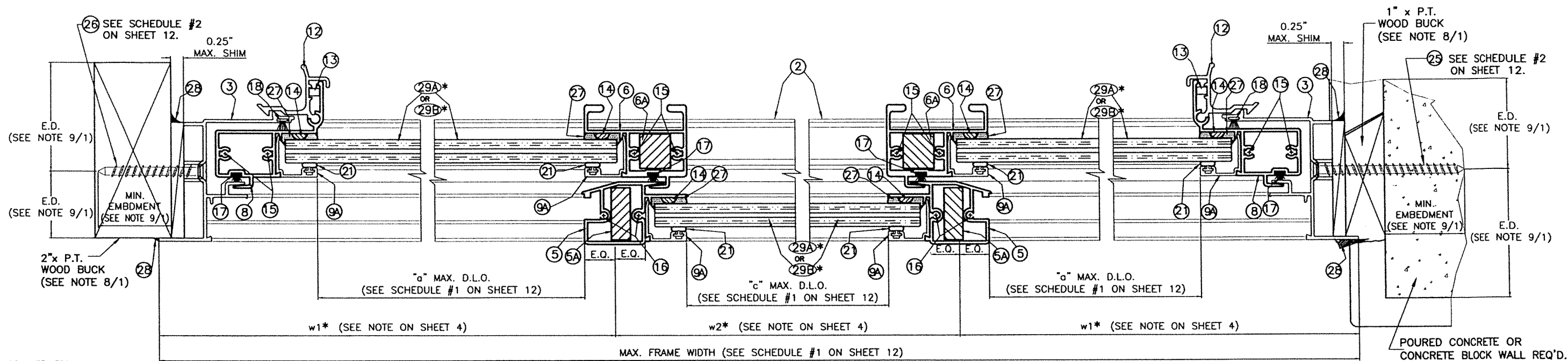
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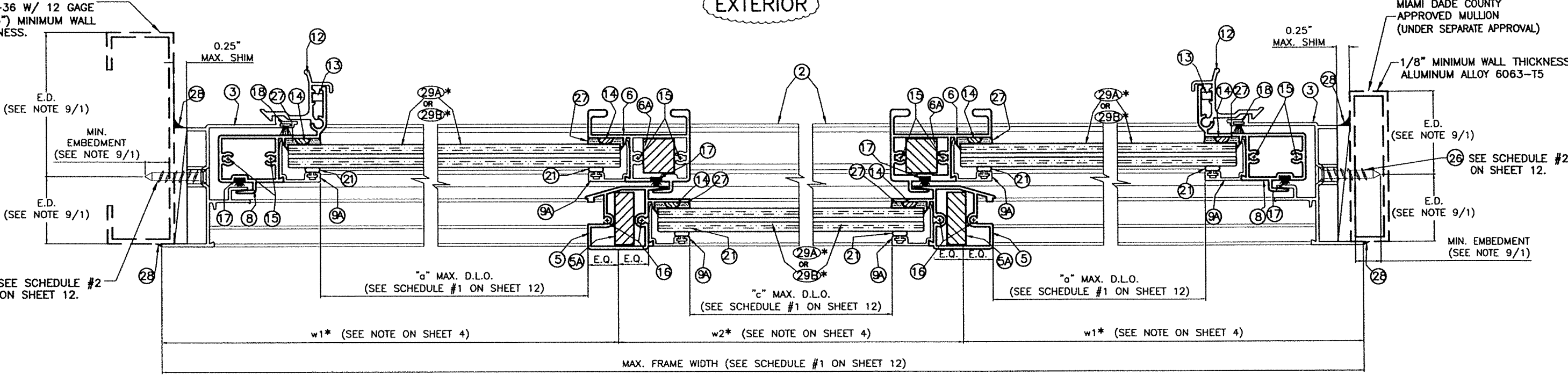
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FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)



EXTERIOR

STEEL MEMBER BY OTHERS SHALL CONFORM TO A.S.T.M. A-500 A-653 OR A-36 W/ 12 GAGE (0.106") MINIMUM WALL THICKNESS.



EXTERIOR

*SEE SCHEDULE #1 ON SHEET 12

SECTIONS C-C (XOX)

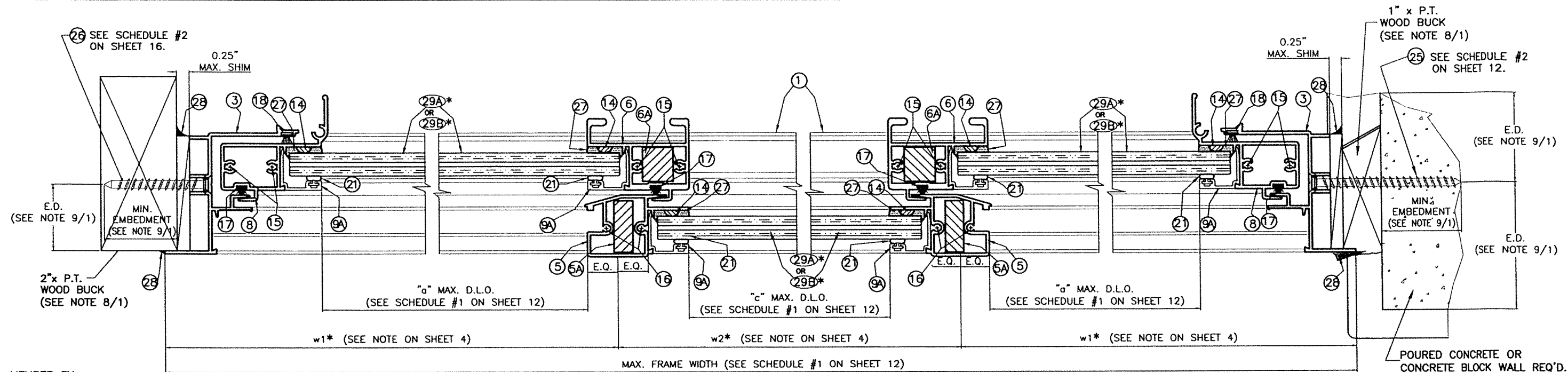
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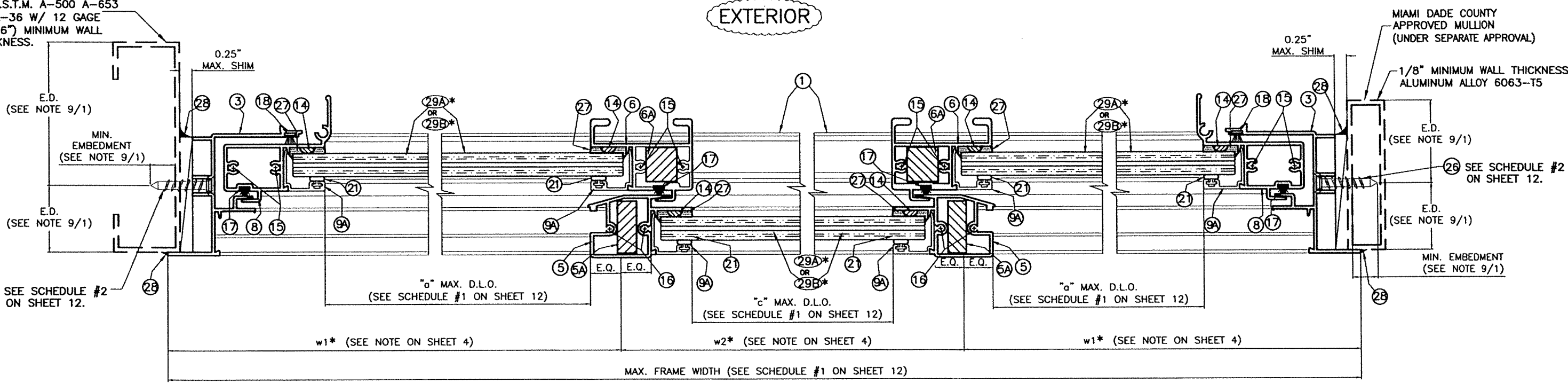
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SHEET 8 OF 14



STEEL MEMBER BY OTHERS SHALL CONFORM TO A.S.T.M. A-500 A-653 OR A-36 W/ 12 GAGE (0.106") MINIMUM WALL THICKNESS.



*SEE SCHEDULE #1 ON SHEET 12

SECTIONS D-D (XOX)

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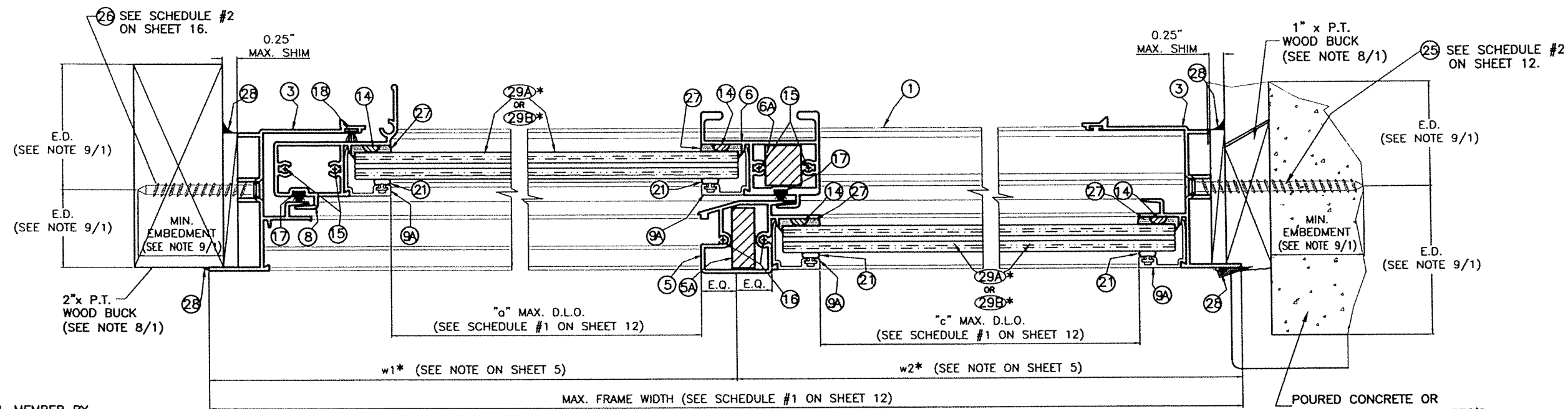
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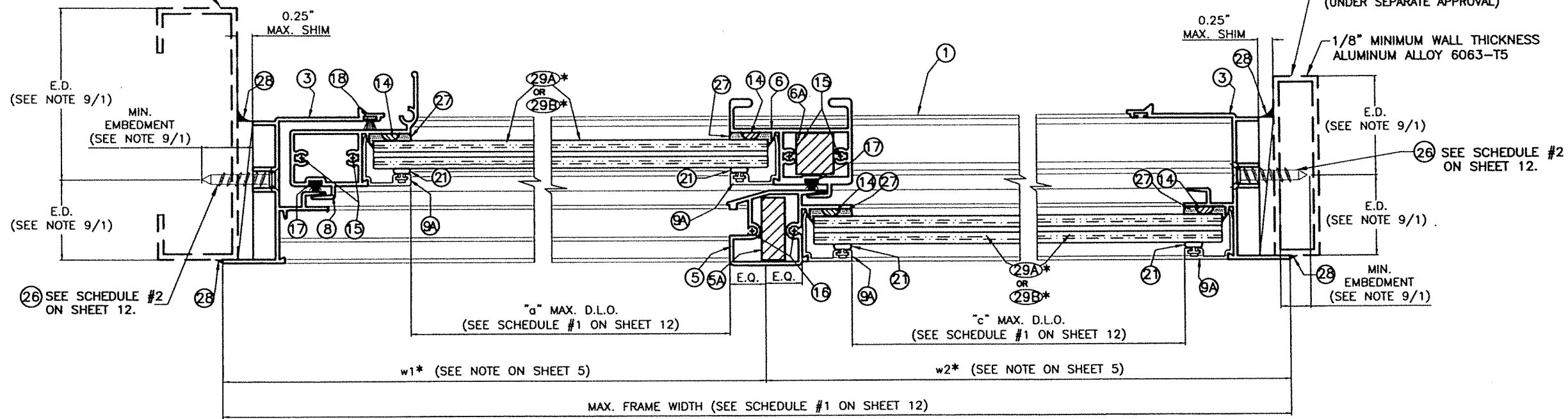
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 SHEET 9 OF 14



EXTERIOR

STEEL MEMBER BY OTHERS SHALL CONFORM TO A.S.T.M. A-500 A-653 OR A-36 W/ 12 GAGE (0.106") MINIMUM WALL THICKNESS.



EXTERIOR


*SEE SCHEDULE #1 ON SHEET 12

SECTIONS F-F (XO)

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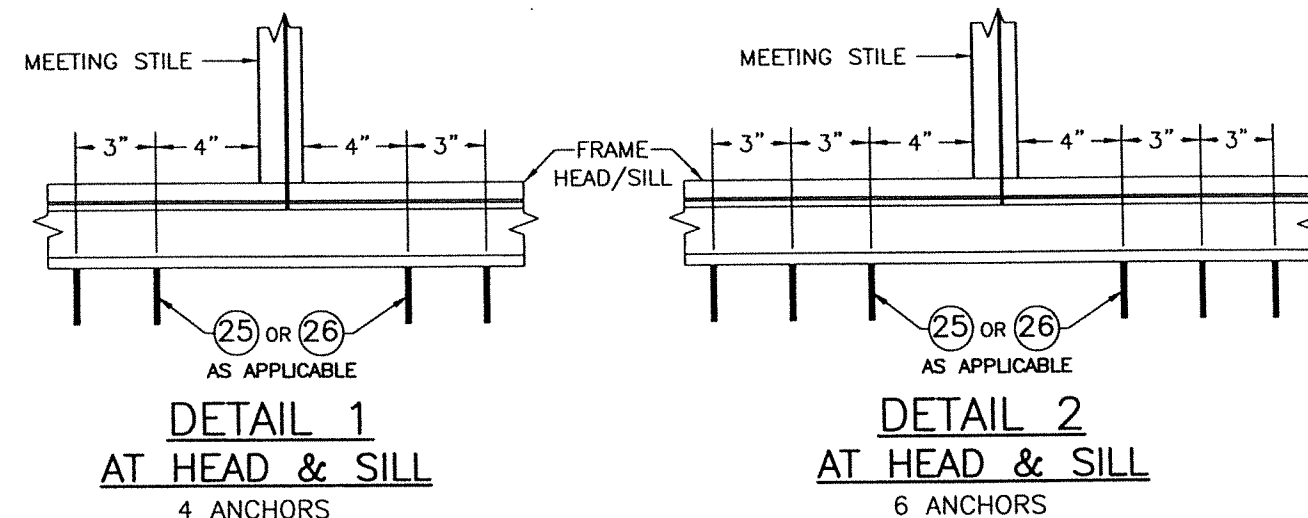
HORIZONTAL SLIDING WINDOW – SCHEDULE # 1

| (XOX) WINDOW | | | | | | | | | | |
|--------------|------------------------------------|------------------------|---------------------|----------------------|--------------------------------------|-----------------------------------|---------------------------------------|------------------------------------|---|------------------|
| CASE # | MAX. A.S.D. DESIGN PRESSURE RATING | MAXIMUM WATER PRESSURE | MAXIMUM FRAME WIDTH | MAXIMUM FRAME HEIGHT | MAX. OPERABLE (X) WINDOW WIDTH w1 | MAX. FIXED (O) WINDOW WIDTH w2 | MAX. OPERABLE (X) D.L.O. WIDTH "a" | MAX. FIXED (O) D.L.O. WIDTH "c" | MAX. OPERABLE (X) OR FIXED (O) D.L.O. HEIGHT "b" | REQ'D GLASS TYPE |
| I | +100, -130 psf. | +15 psf. | 111 1/8" | 63 1/4" | 37 1/16" | 37" | 33 1/2" | 33 1/2" | 56 1/4" | 29B |
| II | +100, -130 psf. | +15 psf. | 111 1/8" | 63 1/4" | 28 1/16" | 55" | 24 3/4" | 51" | 56 1/4" | 29B |
| III | +90, -100 psf. | +13.5 psf. | 111 1/8" | 74 1/4" | 37 1/16" | 37" | 33 1/2" | 33 1/2" | 67 1/4" | 29A |
| IV | +90, -100 psf. | +13.5 psf. | 111 1/8" | 74 1/4" | 28 1/16" | 55" | 24 3/4" | 51" | 67 1/4" | 29A |
| V | +100, -150 psf. | +15 psf. | 96 1/4" | 63 1/4" | 32 1/8" | 32" | 28 3/8" | 28 3/8" | 56 1/4" | 29B |

| (XO) OR (OX) WINDOW | | | | | | | | | | |
|---------------------|------------------------------------|------------------------|---------------------|----------------------|--------------------------------------|-----------------------------------|---------------------------------------|------------------------------------|---|------------------|
| CASE # | MAX. A.S.D. DESIGN PRESSURE RATING | MAXIMUM WATER PRESSURE | MAXIMUM FRAME WIDTH | MAXIMUM FRAME HEIGHT | MAX. OPERABLE (X) WINDOW WIDTH w1 | MAX. FIXED (O) WINDOW WIDTH w2 | MAX. OPERABLE (X) D.L.O. WIDTH "a" | MAX. FIXED (O) D.L.O. WIDTH "c" | MAX. OPERABLE (X) OR FIXED (O) D.L.O. HEIGHT "b" | REQ'D GLASS TYPE |
| I | +100, -150 psf. | +15 psf. | 74 1/4" | 56 1/4" | 37 1/8" | 37 1/8" | 33 9/16" | 33 9/16" | 49 1/4" | 29B |
| II | +100, -130 psf. | +15 psf. | 74 1/4" | 63 1/4" | 37 1/8" | 37 1/8" | 33 9/16" | 33 9/16" 1/2" O.C. | 56 1/4" | 29B |
| III | +90, -100 psf. | +13.5 psf. | 74 1/4" | 74 1/4" | 37 1/8" | 37 1/8" | 33 9/16" | 33 9/16" | 67 1/4" | 29A |
| IV | +100, -150 psf. | +15 psf. | 60 1/4" | 60 1/4" | 30 1/8" | 30 1/8" | 26 9/16" | 26 9/16" | 53 1/4" | 29B |

MAXIMUM ANCHOR SPACING "S" – SCHEDULE #2

| SUBSTRATE | ANCHOR TYPE | NEGATIVE A.S.D. DESIGN PRESSURE RATING (PSF) | HEAD/SILL | JAMB | HEAD/SILL REQUIRED ADDITIONAL ANCHORS CONCENTRATION AT MEETING STILE |
|---|--------------------------------------|--|-------------|-------------|--|
| CONCRETE OR BLOCK (SEE NOTE 9A & 9B/1) | 1/4"Ø ITW BUILDDEX TAPCON (25) | 80 or less | 9" O.C. | 9" O.C. | SEE DETAIL 2 (6 ANCHORS) |
| | | > 80 up to 100 | 7 1/4" O.C. | 7 1/4" O.C. | SEE DETAIL 2 (6 ANCHORS) |
| | | > 100 up to 130 | 5 1/2" O.C. | 5 1/2" O.C. | SEE DETAIL 2 (6 ANCHORS) |
| | | > 130 up to 150 | 4 3/4" O.C. | 4 3/4" O.C. | SEE DETAIL 2 (6 ANCHORS) |
| METAL (SEE NOTE 9D/1) | 1/4"Ø-14 ITW BUILDDEX TEK SCREW (26) | 80 or less | 9" O.C. | 9" O.C. | SEE DETAIL 1 (4 ANCHORS) |
| | | > 80 up to 100 | 9" O.C. | 9" O.C. | SEE DETAIL 2 (6 ANCHORS) |
| | | > 100 up to 130 | 7 1/2" O.C. | 7 1/2" O.C. | SEE DETAIL 2 (6 ANCHORS) |
| | | > 130 up to 150 | 6 5/8" O.C. | 6 5/8" O.C. | SEE DETAIL 2 (6 ANCHORS) |
| WOOD (SEE NOTE 9C/1) | 1/4"Ø-14 ITW BUILDDEX TEK SCREW (26) | 80 or less | 9" O.C. | 9" O.C. | SEE DETAIL 1 (4 ANCHORS) |
| | | > 80 up to 100 | 9" O.C. | 9" O.C. | SEE DETAIL 2 (6 ANCHORS) |
| | | > 100 up to 130 | 7" O.C. | 7" O.C. | SEE DETAIL 2 (6 ANCHORS) |
| | | > 130 up to 150 | 6" O.C. | 6" O.C. | SEE DETAIL 2 (6 ANCHORS) |



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

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TILLIT TESTING & ENGINEERING COMPANY

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

FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)

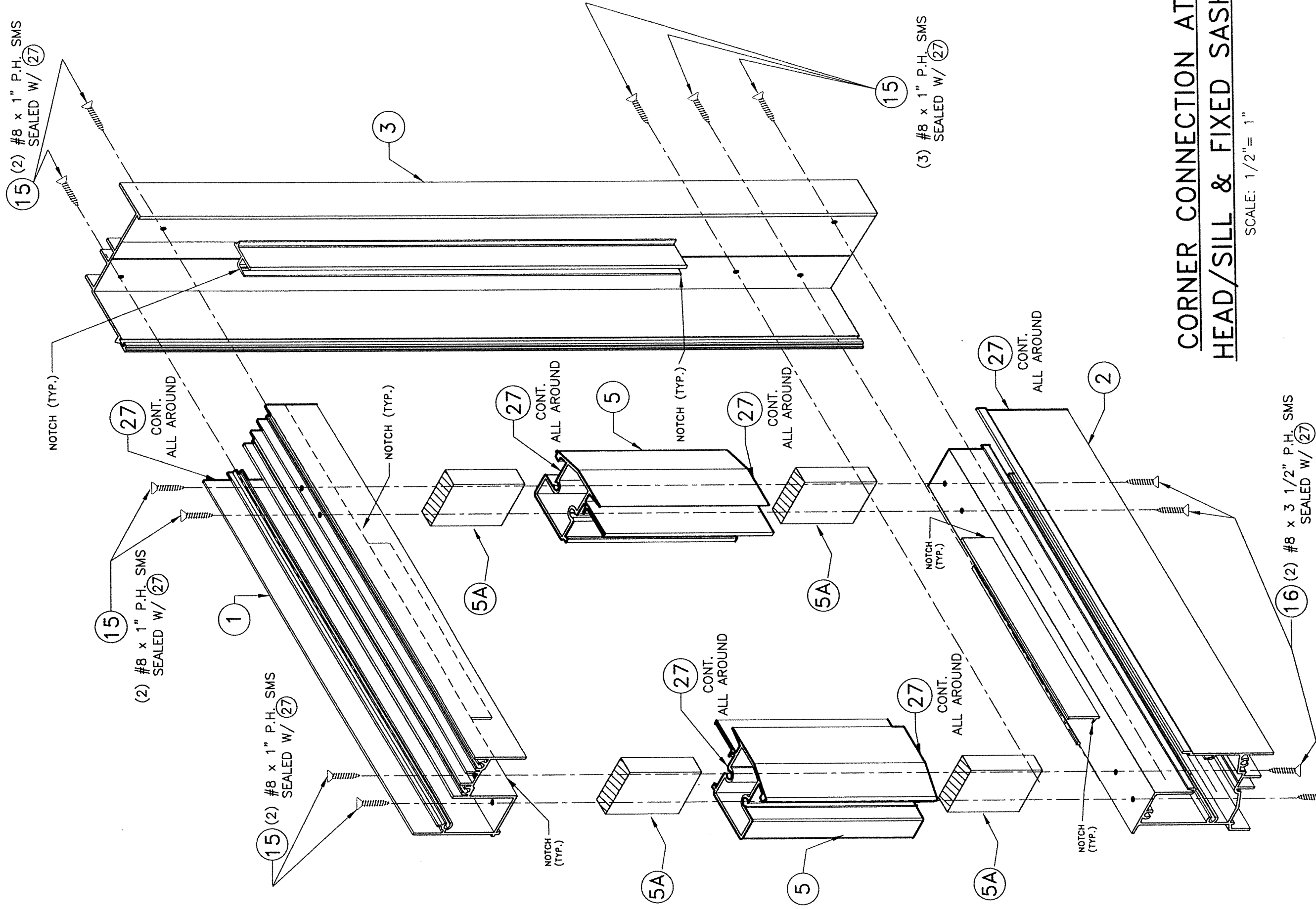
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 LARGE MISSILE IMPACT RESISTANT

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| REV. NO | DESCRIPTION | DATE | REV. No | DESCRIPTION | DATE |
| 1 | OLD 20-269 | 09/13/23 | 3 | | |
| 2 | | | 4 | | |

DRAWN BY:
 W.H
 09/13/2023
 DATE
23-216
 DRAWING No
 SHEET 12 OF 14



CORNER CONNECTION AT HEAD/SILL & FIXED SASH

SCALE: 1/2" = 1"

(16) (2) #8 x 3 1/2" P.H. SMS SEALED W/ (27)

FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)

SERIES 18000 HIGH IMPACT HORIZONTAL SLIDING WINDOW
LARGE MISSILE IMPACT RESISTANT

| | | | | | |
|----------|-------------|----------|----------|-------------|------|
| REV. NO. | DESCRIPTION | DATE | REV. NO. | DESCRIPTION | DATE |
| 1 | OLD 20-269 | 09/13/23 | 3 | | |
| 2 | | | 4 | | |

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DATE: 09/13/2023
DRAWING No: 23-216
SHEET 13 OF 14

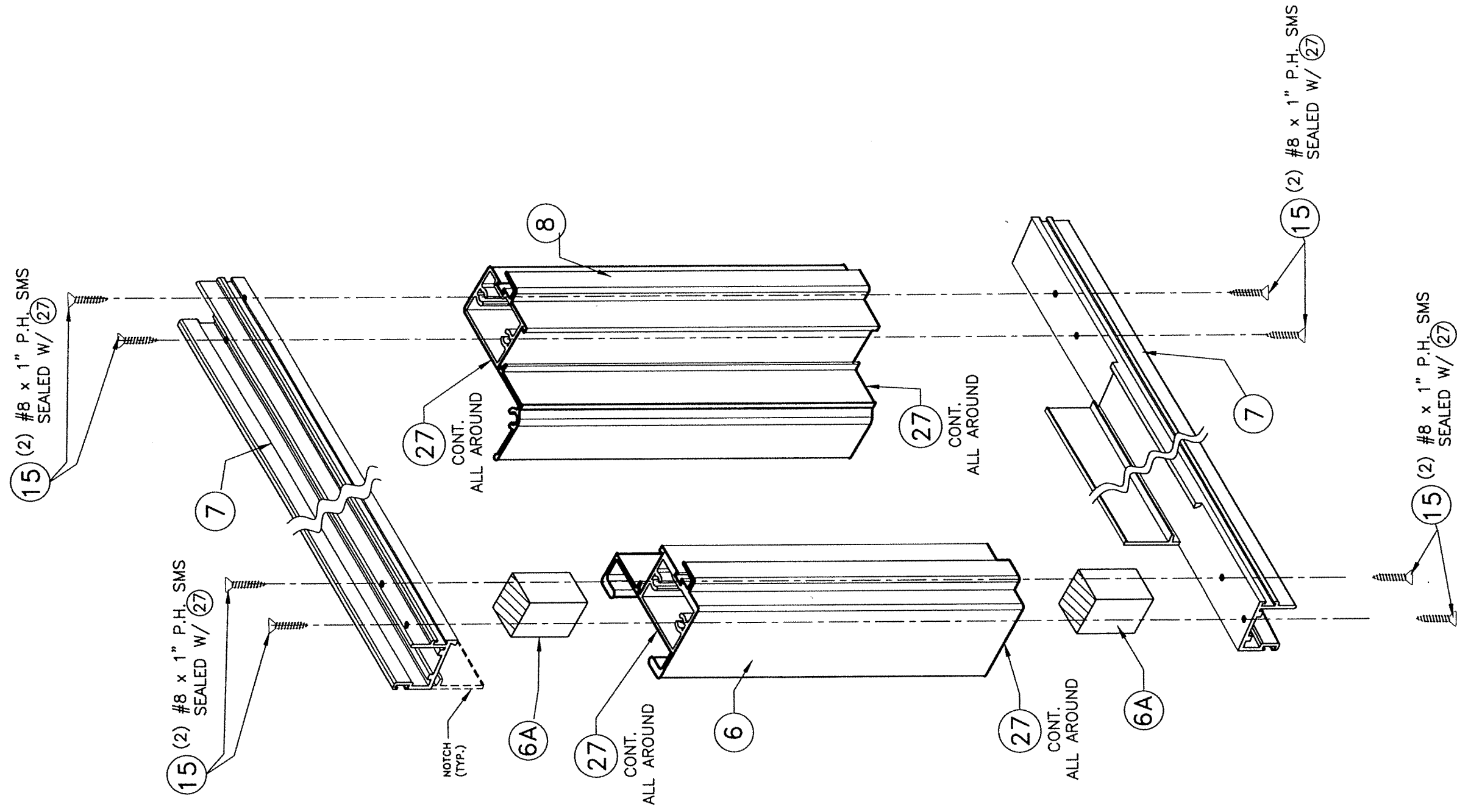
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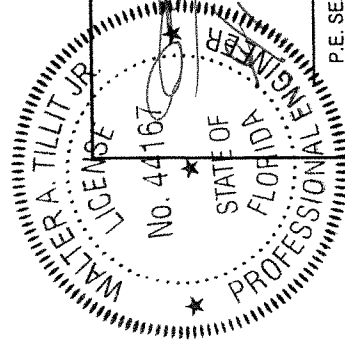
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PROFESSIONAL ENGINEER
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**CORNER CONNECTION AT
VENT**

SCALE: 1/2" = 1"



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| | DATE 09/13/2023 |
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| WINDOVS & DOORS REV. NO. DESCRIPTION DATE REV. No. DESCRIPTION DATE | SHEET 14 OF 14 |
| 1 2 | 3 4 |