



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

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

General Impact Glass & Windows Corp.

290 West 78 Road

Hialeah, FL 33014

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 "11000 High Impact 9'0" Aluminum Sliding Glass Door – L.M.I.

APPROVAL DOCUMENT: Drawing No. 17-147, titled "Series 11000 Impact Sliding Glass Door", sheets 1 thru 7, 7A, 8 and 9 thru 18 of 18, dated 10/30/18, with revision #2 dated 10/30/18, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit, Jr., P.E., bearing the Miami-Dade County Product Control renewal 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 **renews and revises** NOA# 17-1102.16 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Sifang Zhao, P.E.**



S. Z.
02/07/2019

NOA No. 18-1108.02
Expiration Date: December 11, 2023
Approval Date: February 07, 2019

General Impact Glass & Windows Corp.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted under previous NOA's

A. DRAWINGS

1. Manufacturer's die drawings and sections. *(Submitted under NOA# 08-1003.06)*
2. Drawing No. **17-147**, titled "Series 11000 Impact Sliding Glass Door", sheets 1 thru 7, 7A, 8 and 9 thru 18 of 18, dated 08/08/17 with revision #1 dated 08/08/17, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit, Jr., P.E.

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, TAS 202-94

along with marked-up drawings and installation diagram of an aluminum sliding glass door, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5626**, dated 07/22/08, and addendum letter dated 11/14/08, signed and sealed by Carlos Rionda, P.E. *(Submitted under NOA# 08-1003.06)*

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC-5th Edition (2014)**, prepared by Tilteco, Inc., dated 06/04/15, signed and sealed by Walter A. Tillit, Jr., P.E.
2. Glazing complies with **ASTM E1300-04**

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **16-1117.01** issued to **Kuraray America, Inc.** for their "**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayer**" (formerly Butacite PVB) dated 01/19/17, expiring on 07/08/19.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC-6th Edition (2017)**, dated 08/08/2017, issued by Tilteco, Inc., signed and sealed by Walter A. Tillit, Jr., P.E. *(Submitted under NOA# 17-1102.16)*
2. Statement letter of conformance, complying with **FBC-5th Edition (2014)**, dated June 12, 2015, issued by Tilteco, Inc., signed and sealed by Walter A. Tillit, Jr., P.E. *(Submitted under NOA# 15-0622.15)*



Sifang Zhao, P.E.

Product Control Examiner

NOA No. 18-1108.02

Expiration Date: December 11, 2023

Approval Date: February 07, 2019

General Impact Glass & Windows Corp.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS (CONTINUED)

3. Statement letter of conformance, complying with **FBC-2010**, and of no financial interest, dated September 17, 2008, and January 27, 2012, issued by Tilteco, Inc., signed and sealed by Walter A. Tillit, Jr., P.E. *(Submitted under NOA# 08-1003.06)*
4. Laboratory compliance letter for Test Report No. **FTL-5626**, issued by Fenestration Testing Laboratory, Inc., dated 11/14/08, signed and sealed by Joseph Chan, P.E. *(Submitted under NOA# 08-1003.06)*

G. OTHERS

1. Notice of Acceptance No. **15-0622.15**, expiring on 12/11/18.

2. New evidence submitted

A. DRAWINGS

1. Drawing No. **17-147**, titled "Series 11000 Impact Sliding Glass Door", sheets 1 thru 7, 7A, 8 and 9 thru 18 of 18, dated 10/30/18 with revision #2 dated 10/30/18, 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. Notice of Acceptance No. **17-1114.14** issued to **Kuraray America, Inc.** for their "**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayer**" (formerly Butacite PVB) dated 01/18/2018, expiring on 07/08/19.

F. STATEMENTS

1. None.

G. OTHERS

1. Notice of Acceptance No. **17-1102.16**, expiring on 12/11/18.



Sifang Zhao, P.E.

Product Control Examiner

NOA No. 18-1108.02

Expiration Date: December 11, 2023

Approval Date: February 07, 2019

GENERAL NOTES:

- SERIES 11000 HIGH IMPACT SLIDING GLASS DOOR, SHOWN ON THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2017 (6th EDITION) OF THE FLORIDA BUILDING CODE. SERIES 11000 HIGH IMPACT SLIDING GLASS 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 7-10 AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON NOTE 3 BELOW.
IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE 7-10 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 3 BELOW.
IN ORDER TO VERIFY THAT ANCHORS ON THIS P.A.D., AS TESTED, WERE NOT OVERSTRESSED, A 33% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS **NOT** USED IN THEIR ANALYSIS. A DURATION FACTOR $C_d=1.60$ WAS USED TO VERIFY FASTENERS IN WOOD.
THIS DOOR'S ADEQUACY FOR IMPACT AND WIND RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1626 OF THE ABOVE MENTIONED CODE AS PER PROTOCOLS TAS-201, TAS-202, TAS-203, PER FENESTRATION TESTING LABORATORY, INC. LAB REPORT # 5626 AND AS PER SUBMITTED STRUCTURAL CALCULATIONS, PERFORMED AS PER SECTION 1616 OF THE FLORIDA BUILDING CODE.
- REMAINING COMPONENTS FOR THIS SLIDING GLASS DOOR SYSTEM SHALL BE AS INDICATED ON BILL OF MATERIALS AND COMPONENT SHEETS 2 AND 3 RESPECTIVELY OF THIS DRAWING.
- MAXIMUM A.S.D. DESIGN PRESSURE RATINGS FOR THESE DOORS SHALL BE AS SHOWN ON SHEET 4. SEE DOOR ELEVATIONS ON SHEETS 4 THRU 7 FOR QUALIFIED CONFIGURATIONS.**
- THIS SERIES 11000 HIGH IMPACT SLIDING GLASS DOOR WILL NOT REQUIRE A HURRICANE PROTECTION DEVICE.**
- THIS SERIES 11000 HIGH IMPACT SLIDING GLASS DOOR IS APPROVED FOR AIR AND WATER INFILTRATION.**
- ALL ALUMINUM EXTRUSIONS SHALL BE ALUMINUM ASSOCIATION 6063-T6 ALLOY AND TEMPER, WITH $F_y=25.0$ ksi MINIMUM. THE THICKNESS OF ALL EXTRUSIONS SHALL BE AS SHOWN ON THIS DRAWING.
- 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 STRENGTH AND 90 ksi TENSILE STRENGTH & SHALL COMPLY W/ FLORIDA BUILDING CODE SECTION 2411.3.3.4.
- WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE BUILDING STRUCTURE. WOOD BUCKS MUST BE SOUTHERN PINE, $G=0.55$. AND SHALL COMPLY WITH SECTIONS 2411.3.3.3 & 2326 OF THE 2017 (6th EDITION) 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 DOOR 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. DOOR FRAME ANCHOR SHALL BE USED TO ATTACH 1X WOOD BUCK TO EXISTING STRUCTURE BY DRIVING ANCHOR THRU BOTH DOOR FRAME & 1X WOOD BUCK INTO EXISTING STRUCTURE W/ PROPER EMBEDMENT AND EDGE DISTANCE AS SHOWN ON THIS DRAWING. IT IS NOT NECESSARY TO INDEPENDENTLY ANCHOR 1X WOOD BUCK TO STRUCTURE IN ADDITION TO THE ABOVE SPECIFIED ANCHORAGE.
(8.3) DOOR FRAME MAY BE DIRECTLY CONNECTED TO EXISTING STRUCTURE WITH NO NEED FOR WOOD BUCKS WHEN MASONRY OPENING IS NOT LARGER THAN ACTUAL DOOR OVERALL DIMENSIONS. HOWEVER (SEE NOTE 10) MAY BE ALLOWED AT DOOR FRAME ANCHOR LOCATION IF NEEDED.

9. ANCHOR NOTES:

- EMBEDMENT AND EDGE DISTANCE ARE BEYOND ANY FINISH (SEE SCHEDULE ON SHEET 7A).
- TO EXISTING POURED CONCRETE: (Min. $f'_c = 3.192$ ksi), MIN. EDGE DISTANCE = $2 \frac{1}{2}"$.
 - $1/4"$ TAPCON W/ $1 \frac{1}{4}"$ MIN. EMBEDMENT, AS MANUFACTURED BY ITW BUILDEX, INC (COMPONENT 29), THRU $1"$ P.T. WOOD BUCK.
 - $1/4"$ KWIK-CON II W/ $1 \frac{1}{4}"$ MIN. EMBEDMENT, AS MANUFACTURED BY HILTI, INC (COMPONENT 29), THRU $1"$ P.T. WOOD BUCK.
 - TO EXISTING A.S.T.M. C-90 CONCRETE BLOCK MIN. EDGE DISTANCE = $2 \frac{1}{2}"$.
 - $1/4"$ TAPCON W/ $1 \frac{1}{4}"$ MIN. EMBEDMENT, AS MANUFAC. BY ITW BUILDEX, INC. (COMPONENT 29), THRU $1"$ P.T. WOOD BUCK.
 - $1/4"$ KWIK-CON II W/ $1 \frac{1}{4}"$ MIN. EMBEDMENT, AS MANUFACTURED BY HILTI, INC (COMPONENT 29), THRU $1"$ P.T. WOOD BUCK.
 - TO EXISTING 2x P.T. WOOD BUCK. MIN. EDGE DISTANCE = $1"$.
 - $1/4"$ TAPCON W/ $1 \frac{1}{2}"$ MIN. THREADED PENETRATION, AS MANUFACTURED BY ITW BUILDEX, INC. (COMPONENT 29).
 - TO EXISTING MIN. $1/8"$ THICK ALUMINUM MEMBER (6063-T5 ALLOY) MIN. EDGE DISTANCE = $1/2"$.
 - $1/4"-14$ TEK SCREW, MIN. $1"$ LONG, AS MANUFACTURED BY ITW BUILDEX, INC. (COMPONENT 30).
 - TO EXISTING MIN. 12 GAGE STEEL MEMBER (ASTM A-500, A-653 OR A-36) MIN. EDGE DISTANCE = $1/2"$.
 - $1/4"-14$ TEK SCREW, MIN. $1"$ LONG, AS MANUFACTURED BY ITW BUILDEX, INC. (COMPONENT 30).
10. PROVIDE $1/4"$ MAX. SHIM SPACE (TYP.).
11. SERIES 11000 HIGH IMPACT SLIDING GLASS DOOR MANUFACTURER LABEL SHALL BE PLACED ON A READILY VISIBLE LOCATION. ONE LABEL SHALL BE PLACED FOR EVERY UNIT. LABEL SHALL READ AS FOLLOWS:

GENERAL IMPACT GLASS AND WINDOWS, CORP.
HIALEAH, FLORIDA
MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED.

12. (a) THIS 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 P.A.D. WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- (d) ORIGINAL P.A.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

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 18-1108.02
Expiration Date 12/11/2023
By Ca
Miami Dade Product Control

MIAMI DADE COUNTY

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

SERIES 11000 HIGH IMPACT SLIDING GLASS DOOR

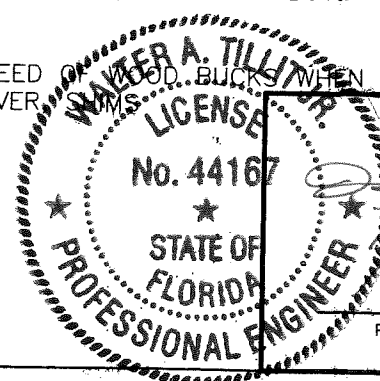
DRAWN BY:
M.P.

10/30/18
DATE

17-147

DRAWING No

SHEET 1 OF 18



P.E. SEAL/SIGNATURE/DATE

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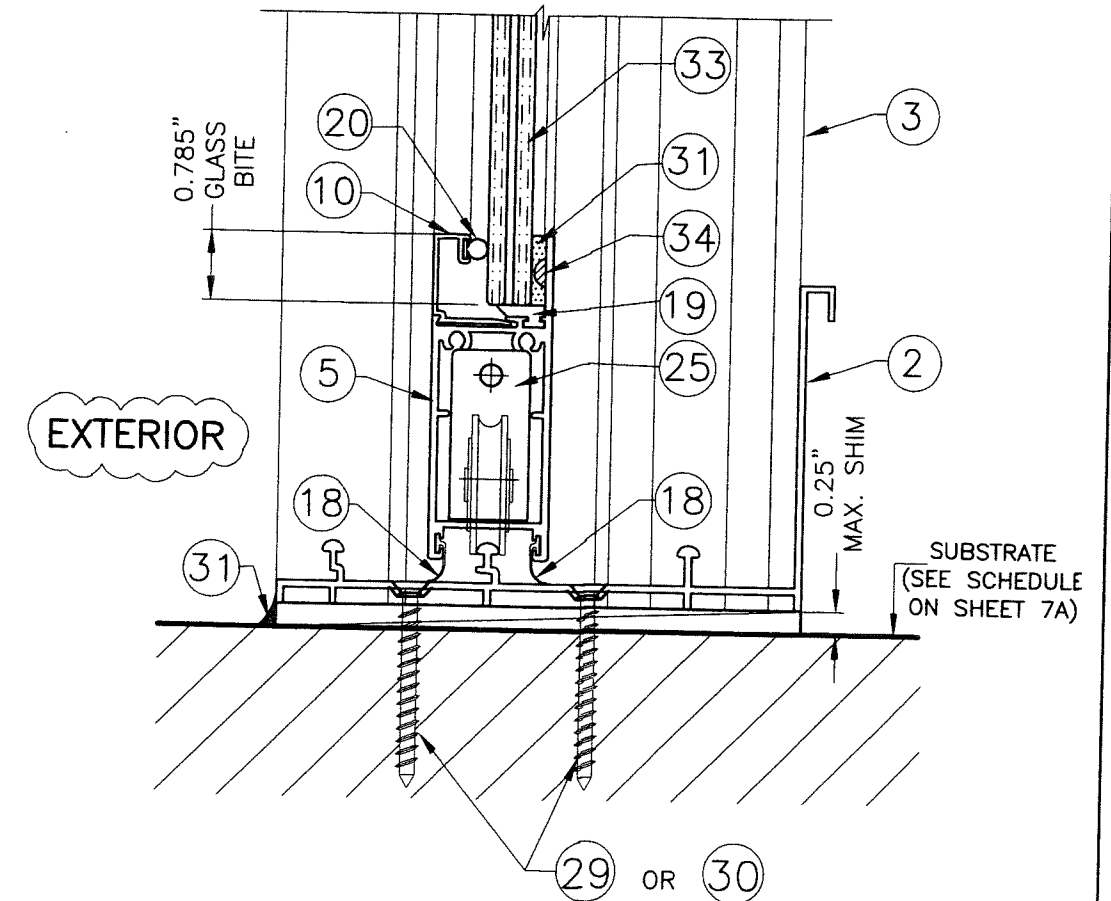


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REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 15-161	08/08/17	3		
2	NOTES 8.1, 8.2 & 8.3	10/30/18	4		

BILL OF MATERIALS

ITEM #	PART #	DESCRIPTION	MATERIAL
1	GIC301-1	FRAME HEAD	6063-T6
2	GIC302-1	FRAME SILL	6063-T6
3	GIC303-1	FRAME JAMB	6063-T6
4	GIC304-1	TOP RAIL	6063-T6
5	GIC305-1	BOTTOM RAIL	6063-T6
6	GIC306-1	LOCK STILE	6063-T6
7	GIC307-1	MEETING STILE OUTER INTERLOCK	6063-T6
8	GIC308-1	MEETING STILE INNER INTERLOCK	6063-T6
9	GIC309-1	CENTERMATE FEMALE ASTRAGAL	6063-T6
10	GIC310	GLAZING BEAD	6063-T6
11	GIC311	INTERLOCK STIFFENER	6063-T6
12	GIC312	RETAINER CLIP, 4" LONG	6063-T6
13	GIC313	FIXED PANEL CLIP, 8" LONG	6063-T6
14	-	OPTIONAL INTERIOR REINFORCEMENT FOR FEMALE ASTRAGAL ONLY REQ'D FOR 7' & 8' DOORS	6063-T6
15	-	OPTIONAL EXTERIOR REINFORCEMENT FOR FEMALE ASTRAGAL ONLY REQ'D FOR 7' & 8' DOORS	6063-T6
17	W223511K	TOP RAIL + JAMB + STILE + ASTRAGAL WEATHER STRIPPING	NEOPRENE
18	GIC315	BOTTOM RAIL SEAL	VINYL
19	GIC314	SETTING BLOCK	NEOPRENE
20	GIC316	GLAZING BULB	NEOPRENE
21	FASTENER	PANEL ASSEMBLY SCREWS, #10x1 1/4" P.H. S.D.S.	S.T. STEEL
22	FASTENER	FRAME ASSEMBLY SCREWS, #10x1" F.H. S.D.S.	S.T. STEEL
23	FASTENER	FIXED PANEL CLIP FASTENER, (3) #10x1/2" PH S.D.S.	S.T. STEEL
24	-	PANEL GUIDE (TOP ONLY) AT EACH END OF EACH PANEL @ 2/PANEL	CELCON
25	#1939-6010-55	GLASS PANEL ROLLER ASSEMBLY AT (2) (25) PER OPERABLE PANEL @ EACH END OF PANEL	ST. STEEL
26	FASTENER	(2)1/4"-20x1" LONG T.H. S.S.M.S. TO STILES/ASTRAGAL FOR EACH ROLLER ASSEMBLY FASTENING	STEEL
27	2300-10SS / #623Z	HANDLE LOCK (INTERIOR AND EXTERIOR) @ 36 1/2"/BOTTOM WITH LOCK INSTALLATION SCREW (2) #6-32x3/8" F.H. M.S. S.S. INCLUDES ZAMAK HANDLE @ 35 1/2"/BOTTOM W/ #10-24x1 3/4" O.H. M.S. S.S.	ST. STEEL
28	2500-1061Z	LOCK STRIKE PLATE W/ STRIKE PLATE MOUNTING SCREW (2) #10x1 1/4" P.H. S.D.S.	S.T. STEEL
29	ANCHORS	1/4" ITW BUILDDEX TAPCON ANCHOR OR 1/4" HILTI KWK-CON II ANCHOR (SEE SCHEDULE ON SHEET 7A)	STEEL
30	ANCHORS	1/4"-14 ITW BUILDDEX TEK SCREW (SEE SCHEDULE ON SHEET 7A)	STEEL
31	GLAZING SILICONE SEALANT	STRUCTURAL SILICONE GE SCS2800, DOW CORNING 795 & PECORA 896	STRUCTURAL SILICONE
33	GLASS	0.458" OVERALL LAMINATED GLASS W/ (1) 0.185" HEAT STRENGTHENED GLASS + (1) 0.088" BUTACITE PVB, INTERLAYER BY KURARAY AMERICA, INC. + (1) 0.185" HEAT STRENGTHENED GLASS.	-
34	-	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

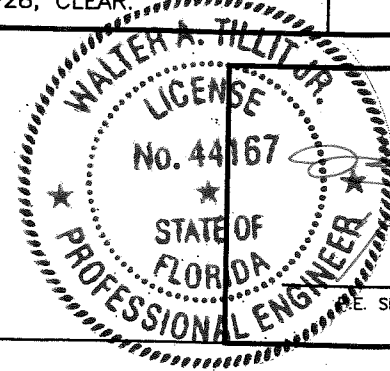


GLAZING DETAIL (SECTION)

SCALE: 1/2"=1"

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 18-1100.02
Expiration Date 12/11/2023
By *[Signature]*
Miami Dade Product Control

MIAMI DADE COUNTY



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TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY

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FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

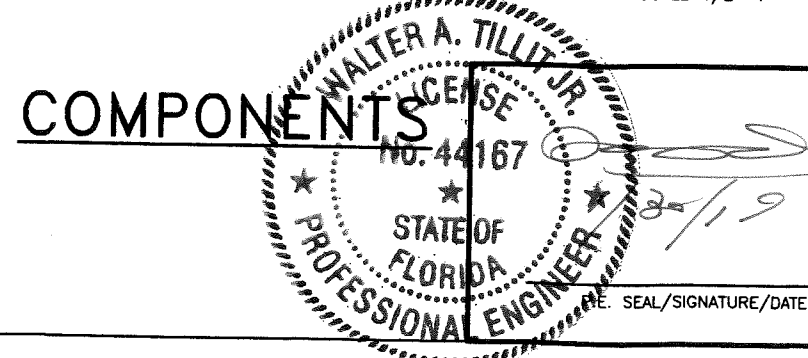
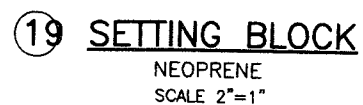
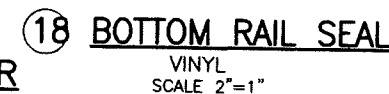
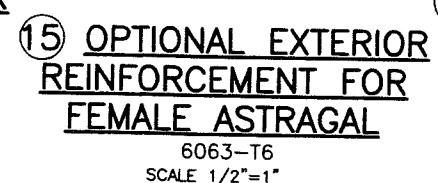
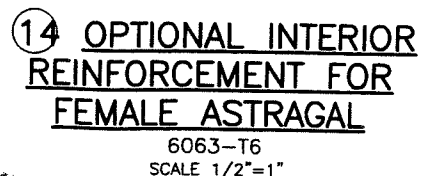
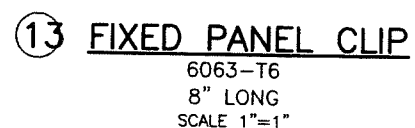
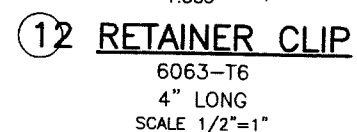
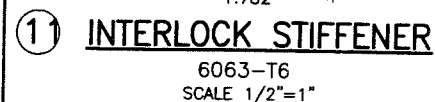
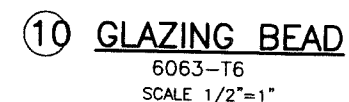
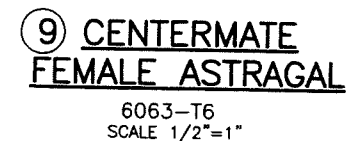
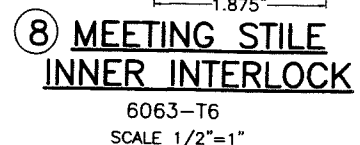
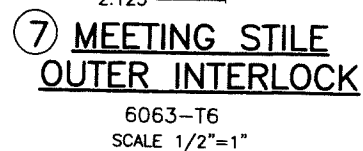
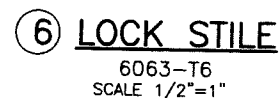
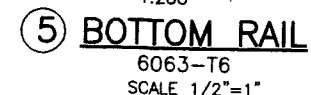
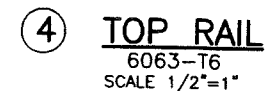
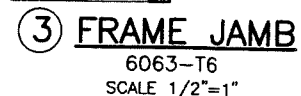
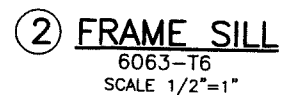
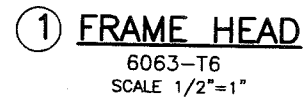
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REV. NO	DESCRIPTION	DATE	REV. NO	DESCRIPTION	DATE
1	OLD 15-181	08/08/17	3		
2			4		

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DRAWING No
SHEET 2 OF 18



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e-mail: tilteco@aol.com
EB-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. 44167

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

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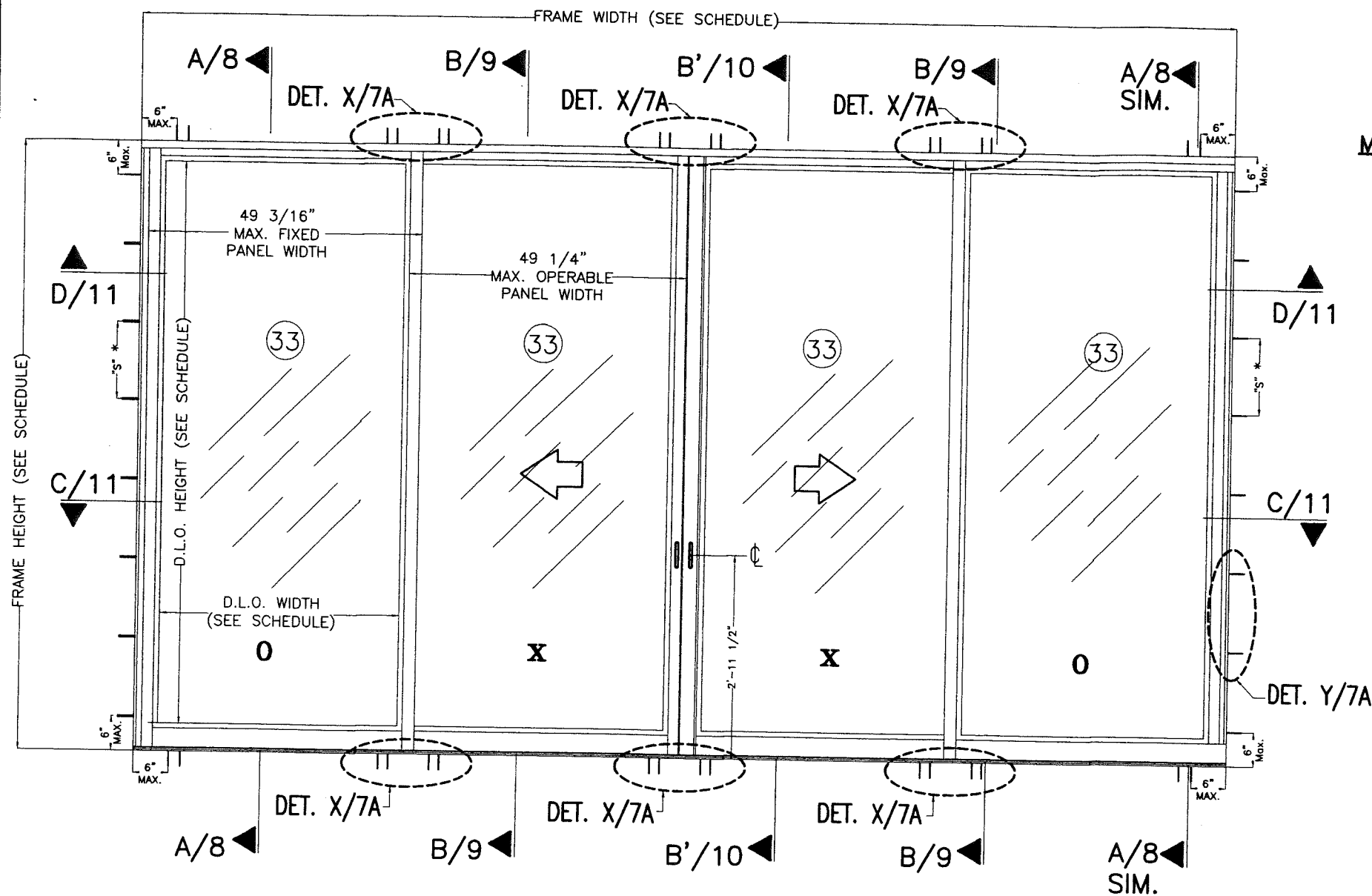
10/30/18
DATE

17-147

DRAWING No.

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 15-181	08/08/17	3		
2			4		

SHEET 3 OF 18



TYPICAL EXTERIOR ELEVATION (OXXO)

SCALE: 1/2" = 1'-0"

* SEE SHEET 7A FOR MAXIMUM ANCHOR SPACING AT JAMBS.

MAXIMUM A.S.D. DESIGN PRESSURE RATING SCHEDULE FOR A MAXIMUM FRAME HEIGHT, FRAME WIDTH, D.L.O. HEIGHT & D.L.O. WIDTH

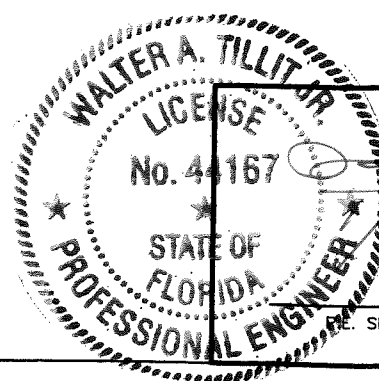
MAX. A.S.D. DESIGN PRESSURE RATING	MAXIMUM FRAME HEIGHT	MAXIMUM FRAME WIDTH	MAXIMUM D.L.O. HEIGHT	MAXIMUM D.L.O. WIDTH
+85, -85 psf & 15 psf AT WATER	9'-0"	16'-0"	99 3/4"	42 3/4"
+91, -99 psf & 15 psf AT WATER	8'-0"	16'-0"	87 3/4"	42 3/4"
+100, -120 psf & 15 psf AT WATER	7'-0"	16'-0"	75 3/4"	42 3/4"

PRODUCT RENEWED
as complying with the Florida
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Acceptance No. 18-1108.02
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By CS
Miami Dade Product Control

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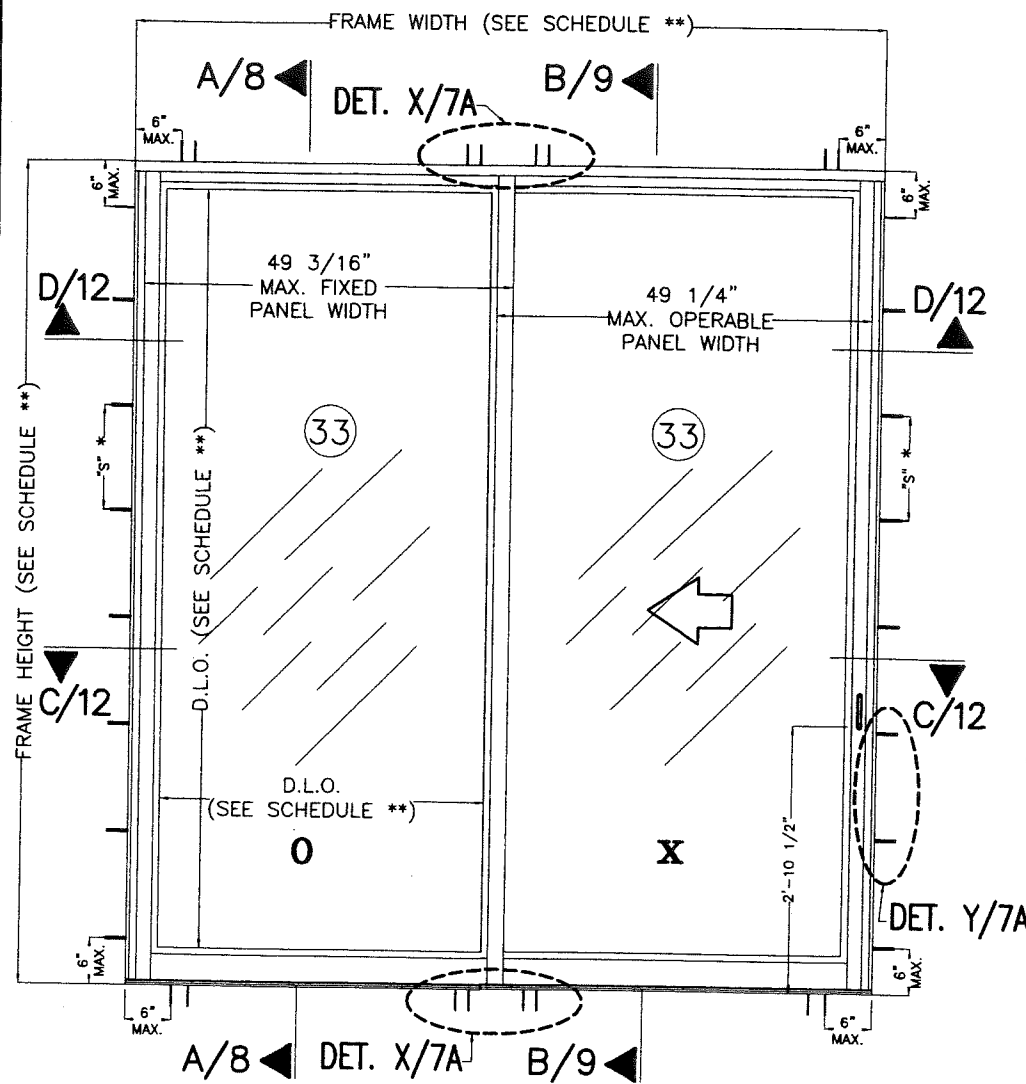
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2			4		

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10/30/18 DATE
17-147 DRAWING No
SHEET 4 OF 18

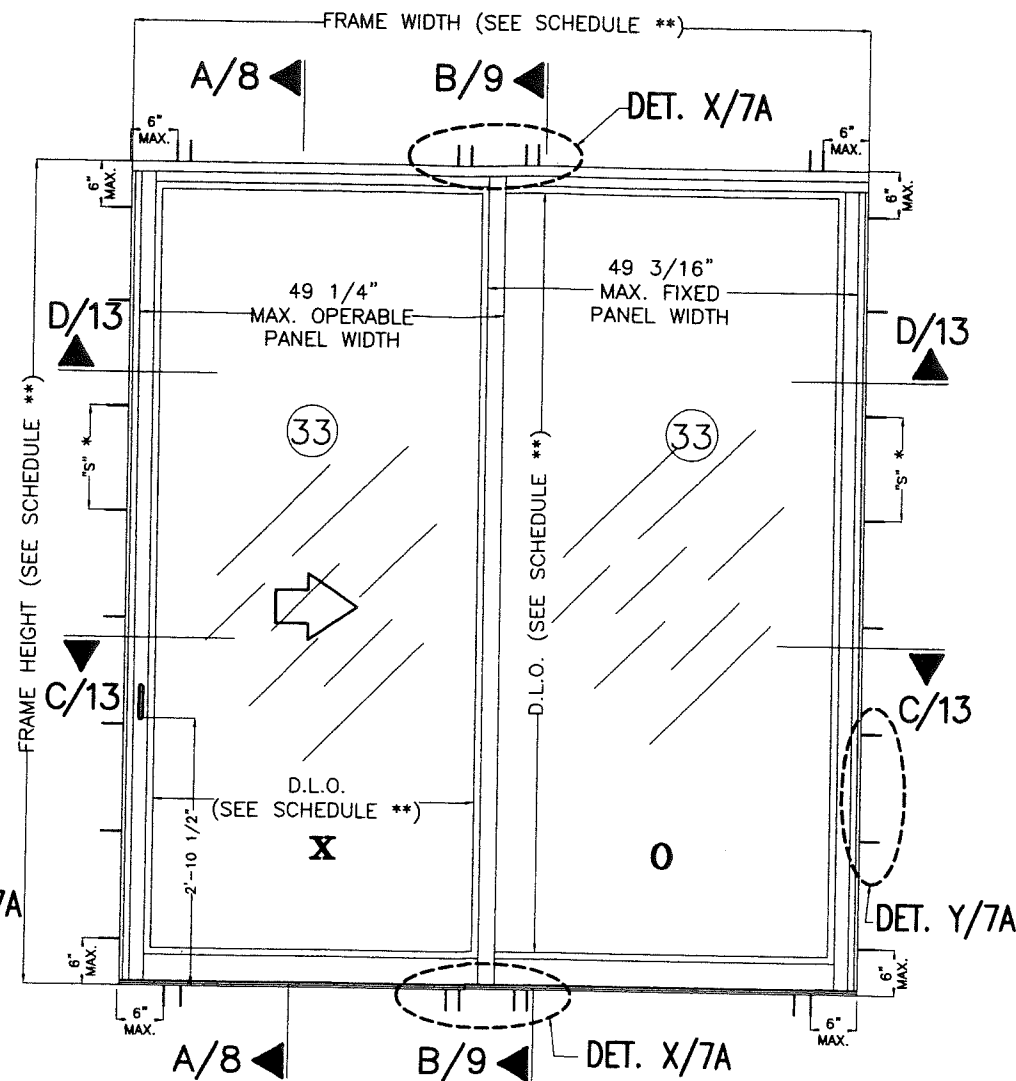


TYPICAL EXTERIOR ELEVATION (OX)

SCALE: 1/2" = 1'-0"

* SEE SHEET 7A FOR MAXIMUM ANCHOR SPACING AT JAMBS.

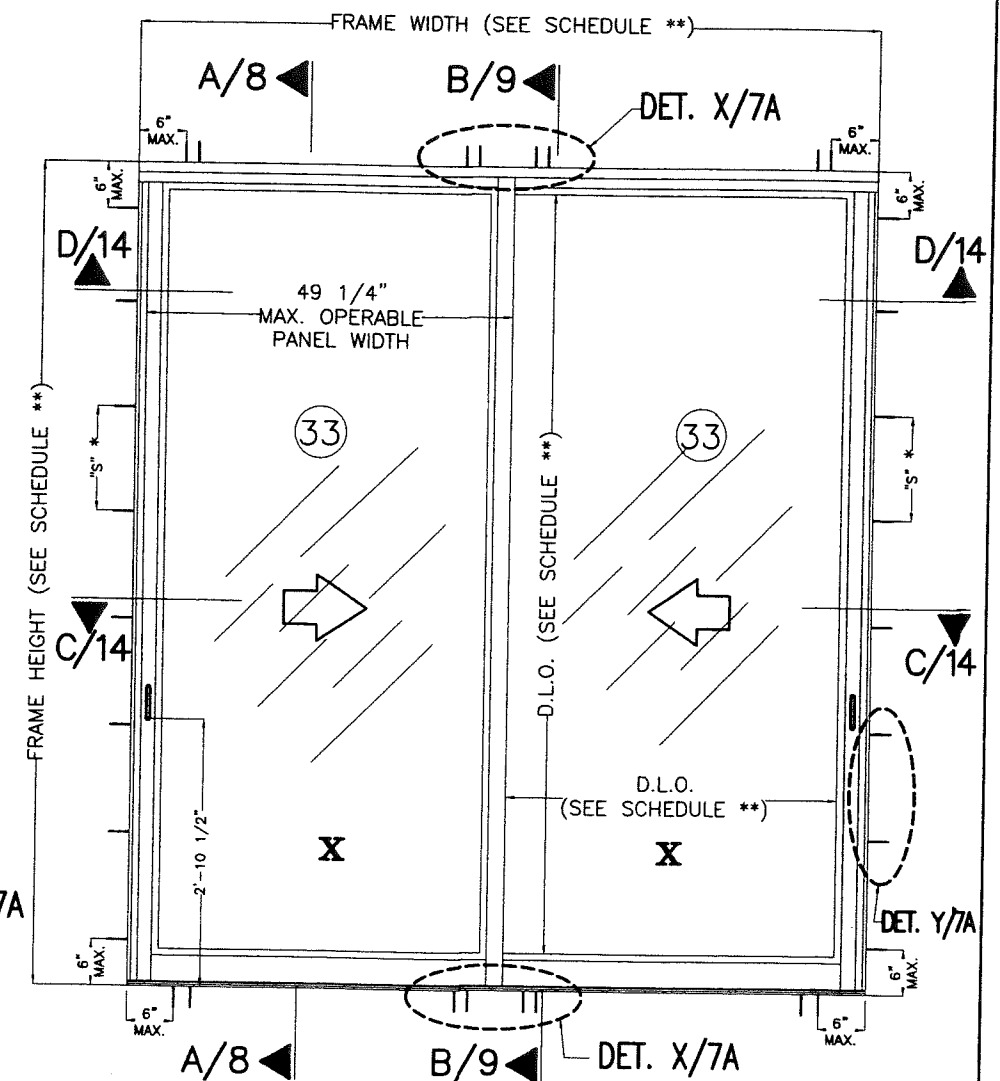
** FOR MAXIMUM FRAME & D.L.O. SEE SCHEDULE ON SHEET 4



TYPICAL EXTERIOR ELEVATION (XO)

SCALE: 1/2" = 1'-0"

* SEE SHEET 7A FOR MAXIMUM ANCHOR SPACING AT JAMBS.



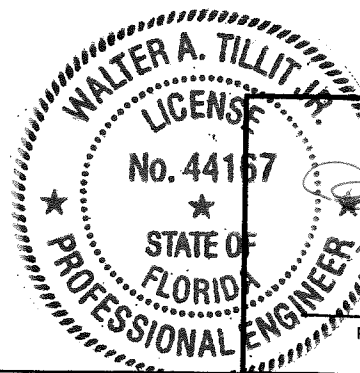
TYPICAL EXTERIOR ELEVATION (XX)

SCALE: 1/2" = 1'-0"

* SEE SHEET 7A FOR MAXIMUM ANCHOR SPACING AT JAMBS.

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By *[Signature]*
Miami Dade Fwd. *[Signature]*

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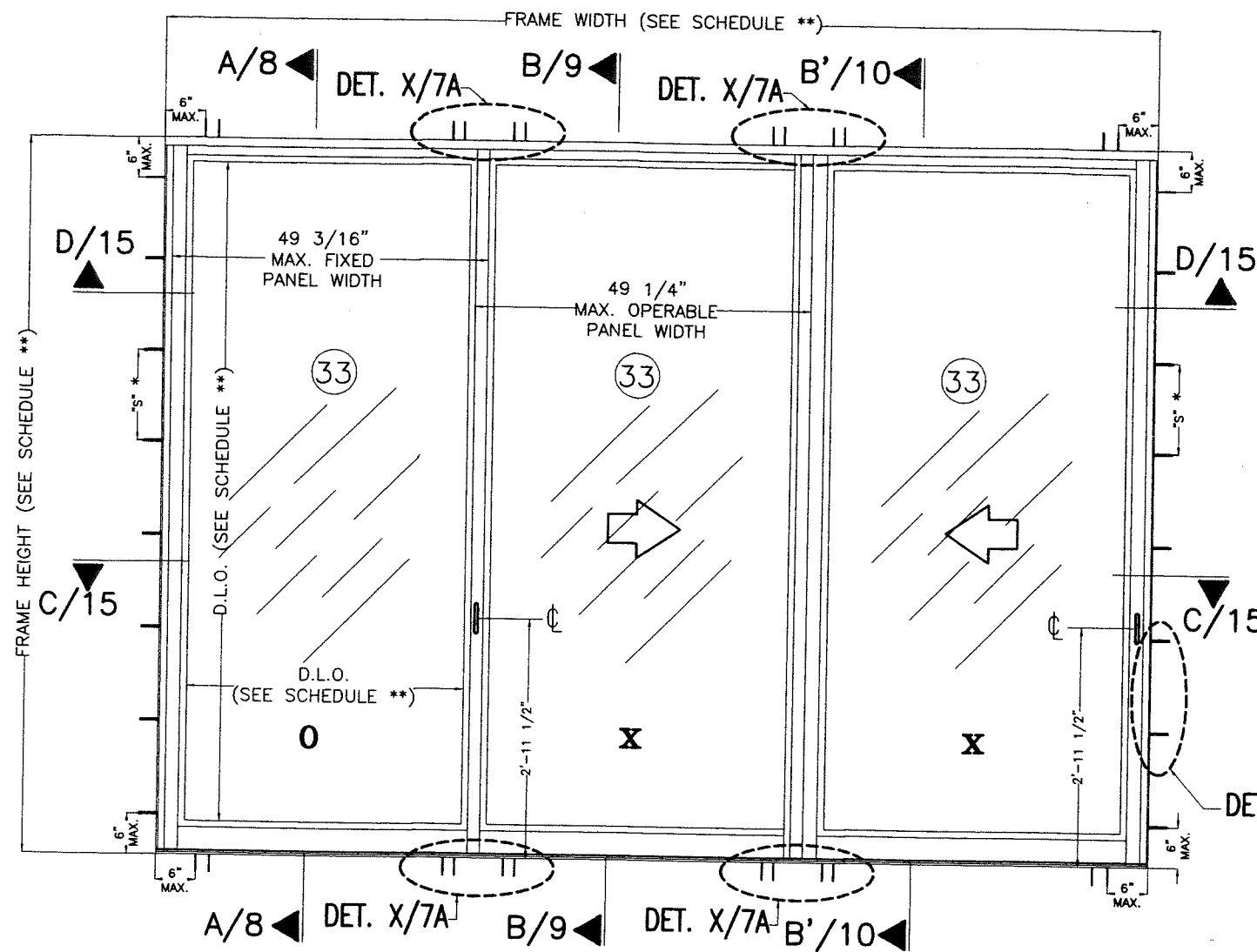
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DATE

17-147
DRAWING No

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 15-181	08/08/17	3		
2			4		

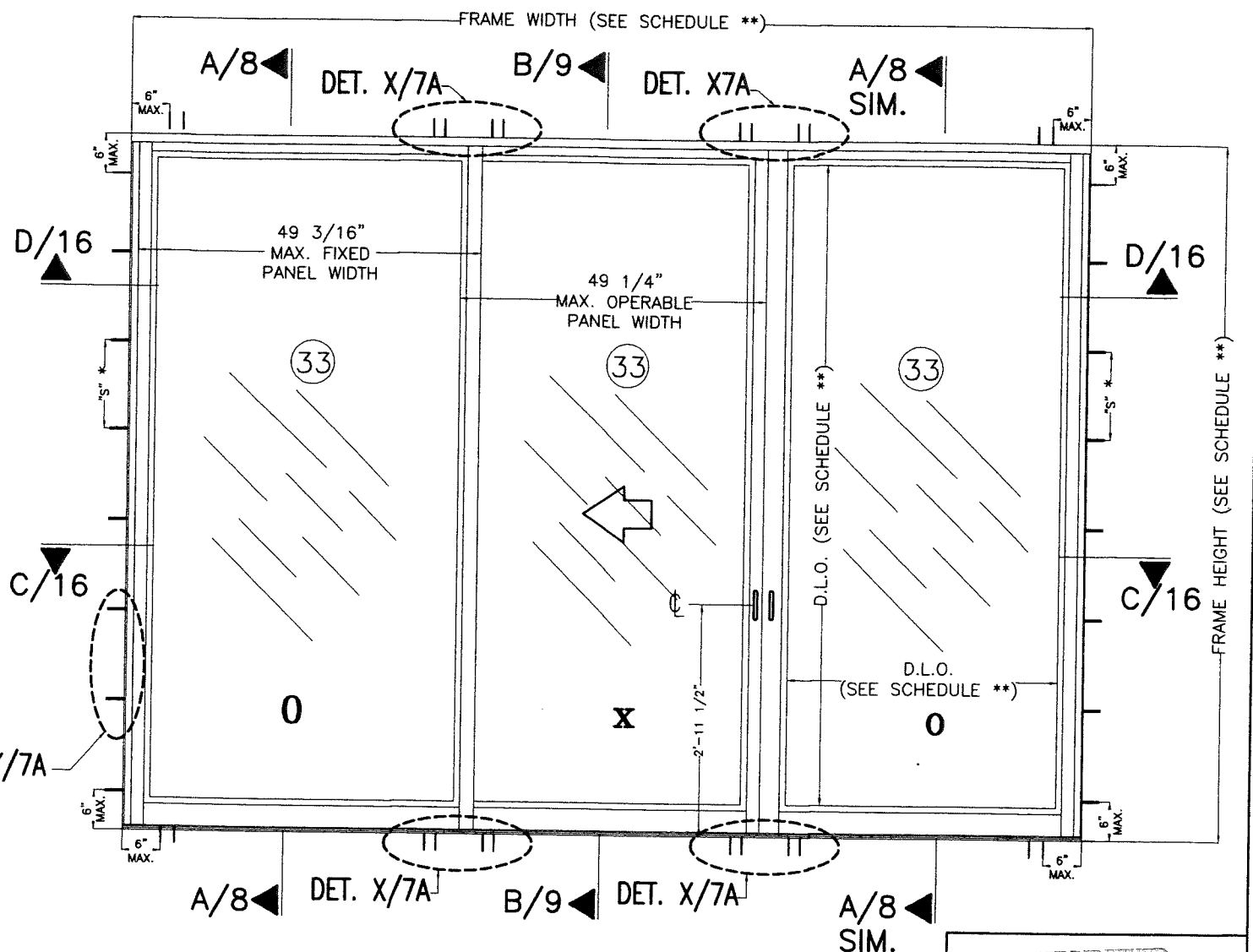
SHEET 5 OF 18



TYPICAL EXTERIOR ELEVATION (OXX)

SCALE: 1/2" = 1'-0"

* SEE SHEET 7A FOR MAXIMUM ANCHOR SPACING AT JAMBS.



TYPICAL EXTERIOR ELEVATION (OXO)

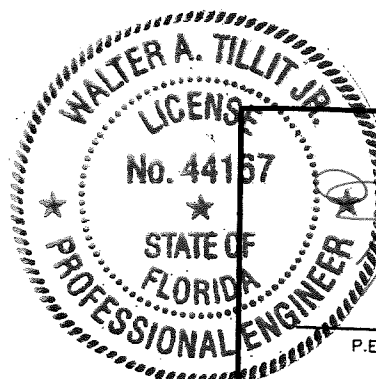
SCALE: 1/2" = 1'-0"

* SEE SHEET 7A FOR MAXIMUM ANCHOR SPACING AT JAMBS.

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** FOR MAXIMUM FRAME & D.L.O.
SEE SCHEDULE ON SHEET 4



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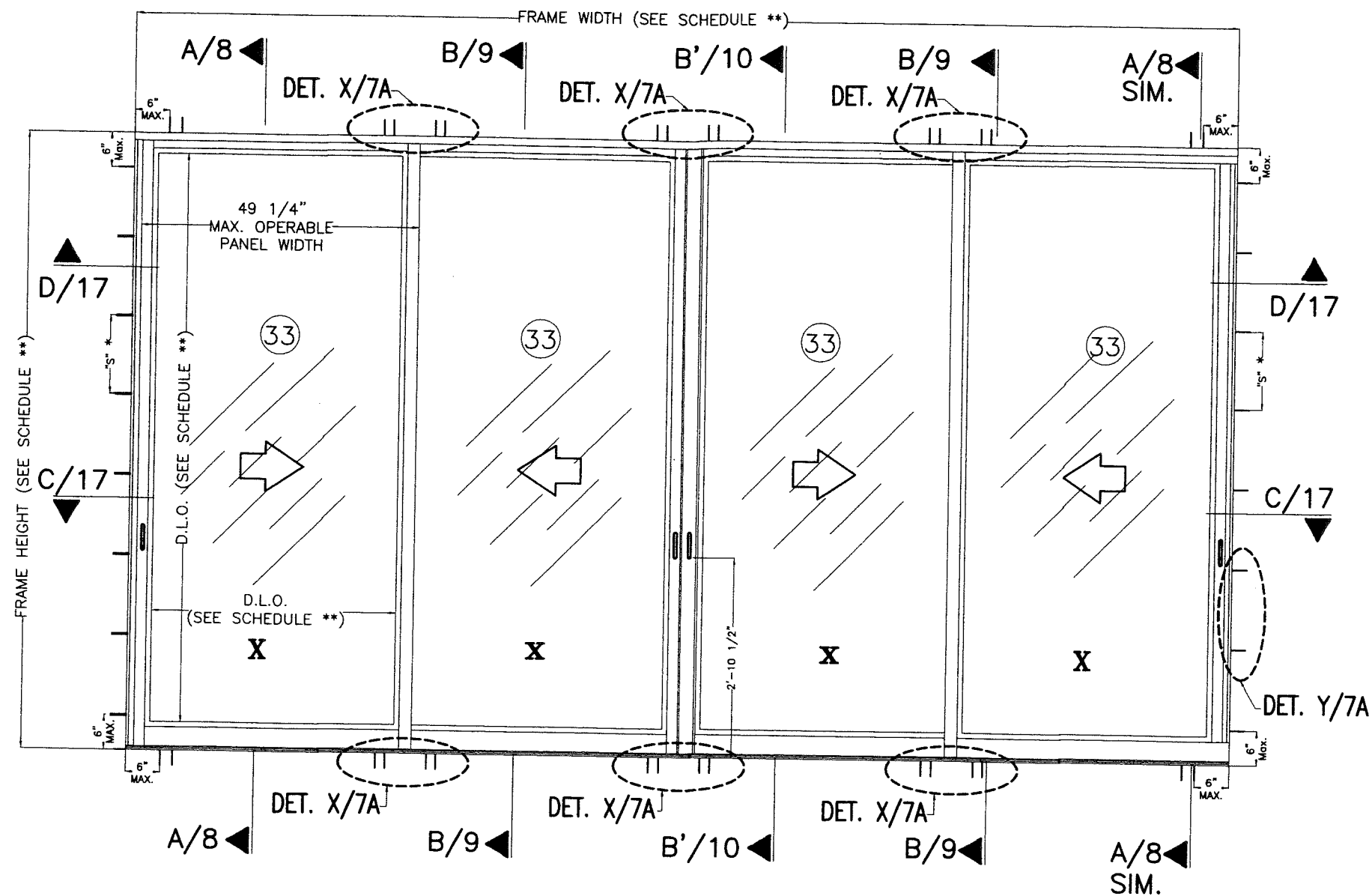
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DRAWING No

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 15-181	08/08/17	3		
2			4		

SHEET 6 OF 18

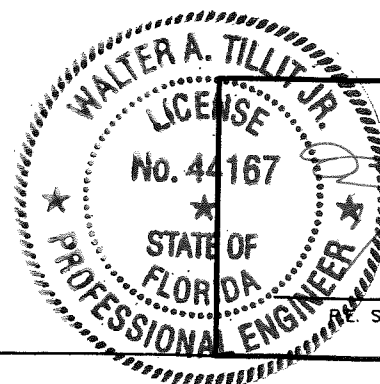


TYPICAL EXTERIOR ELEVATION (XXXX)

SCALE: 1/2" = 1'-0"

* SEE SHEET 7A FOR MAXIMUM ANCHOR SPACING AT JAMBS.

** FOR MAXIMUM FRAME & D.L.O. SEE SCHEDULE ON SHEET 4



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10/30/18
DATE

17-147
DRAWING No

SHEET 7 OF 18

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 By [Signature]
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MIAMI DADE COUNTY

NUMBER OF ANCHORS AT CLUSTER ◊ AT HEAD & SILL CONNECTION SCHEDULE
FOR A GIVEN ANCHOR TYPE, SUBSTRATE & MAX. A.S.D. DESIGN PRESSURE
RATING

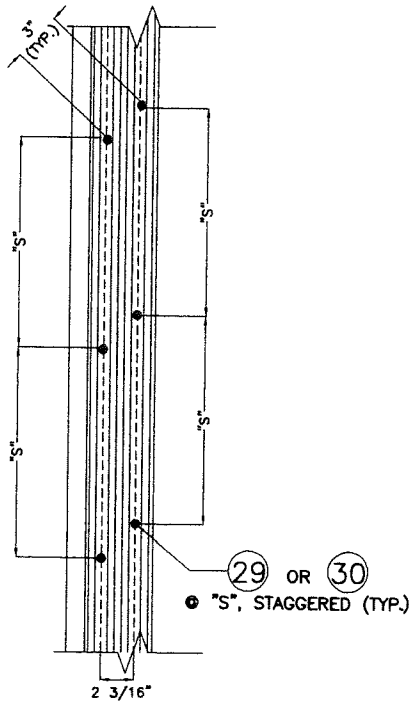
MAXIMUM FRAME HEIGHT	ANCHOR TYPE	SUBSTRATE	MAX. A.S.D. DESIGN PRESSURE RATING	HEAD/SILL "n" # OF ANCHORS ◊ FOR TAPCON	FOR KWIK-CON II
9'-0"	1/4"Ø TAPCON OR KWIK-CON II	POURED CONCRETE	+60, -60 psf	9	5
			+75, -75 psf	11	5
			+85, -85 psf	11	7
			+91, -99 psf	13	7
			+100, -120 psf	17	9
	1/4"Ø TAPCON	WOOD	+60, -60 psf	11	N/A
			+75, -75 psf	13	
			+85, -85 psf	15	
			+91, -99 psf	17	
			+100, -120 psf	19	
	1/4"Ø TEK SCREW	ALUMINUM MULLION OR STEEL MEMBER	+60, -60 psf	9	
			+75, -75 psf	11	
			+85, -85 psf	11	
			+91, -99 psf	13	
			+100, -120 psf	17	
8'-0"	1/4"Ø TAPCON OR KWIK-CON II	POURED CONCRETE	+60, -60 psf	7	5
			+75, -75 psf	9	5
			+85, -85 psf	11	5
			+91, -99 psf	11	7
			+100, -120 psf	15	7
	1/4"Ø TAPCON	WOOD	+60, -60 psf	9	N/A
			+75, -75 psf	11	
			+85, -85 psf	13	
			+91, -99 psf	15	
			+100, -120 psf	17	
	1/4"Ø TEK SCREW	ALUMINUM MULLION OR STEEL MEMBER	+60, -60 psf	7	
			+75, -75 psf	9	
			+85, -85 psf	11	
			+91, -99 psf	11	
			+100, -120 psf	15	
7'-0"	1/4"Ø TAPCON OR KWIK-CON II	POURED CONCRETE	+60, -60 psf	7	3
			+75, -75 psf	9	5
			+85, -85 psf	9	5
			+91, -99 psf	11	5
			+100, -120 psf	13	7
	1/4"Ø TAPCON	WOOD	+60, -60 psf	7	N/A
			+75, -75 psf	9	
			+85, -85 psf	11	
			+91, -99 psf	13	
			+100, -120 psf	15	
	1/4"Ø TEK SCREW	ALUMINUM MULLION OR STEEL MEMBER	+60, -60 psf	7	
			+75, -75 psf	9	
			+85, -85 psf	9	
			+91, -99 psf	11	
			+100, -120 psf	13	

◊ CORRESPONDS TO CLUSTER OF (29) OR (30) ANCHORS AT ◊ OF STILES/ASTRAGAL LOCATION
(SEE DETAIL X)

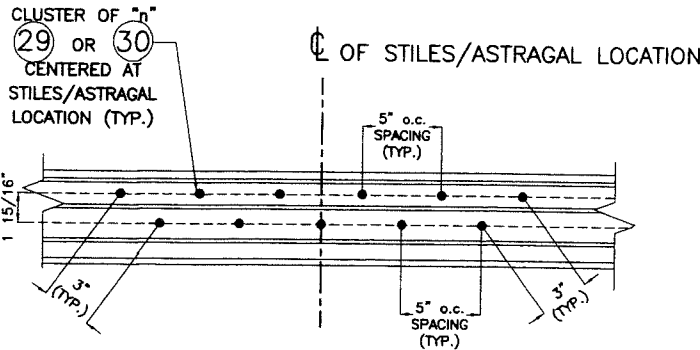
MAXIMUM ANCHORS SPACING "S" * AT JAMBS CONNECTION SCHEDULE
FOR A GIVEN ANCHOR TYPE, SUBSTRATE & MAX. A.S.D. DESIGN
PRESSURE RATING

MAXIMUM FRAME HEIGHT	ANCHOR TYPE	SUBSTRATE	MAX. A.S.D. DESIGN PRESSURE RATING	JAMBS "n" # OF ANCHORS ◊ FOR TAPCON	FOR KWIK-CON II
9'-0" OR 8'-0" OR 7'-0"	1/4"Ø TAPCON OR KWIK-CON II	POURED CONCRETE OR CONCRETE BLOCK	+60, -60 psf	18" o.c.	18" o.c.
			+75, -75 psf	18" o.c.	18" o.c.
			+85, -85 psf	18" o.c.	18" o.c.
			+91, -99 psf	16 1/2" o.c.	18" o.c.
			+100, -120 psf	13 1/2" o.c.	18" o.c.
	1/4"Ø TAPCON	WOOD	+60, -60 psf	18" o.c.	N/A
			+75, -75 psf	18" o.c.	
			+85, -85 psf	16" o.c.	
			+91, -99 psf	13 1/2" o.c.	
			+100, -120 psf	11" o.c.	
	1/4"Ø TEK SCREW	ALUMINUM MULLION OR STEEL MEMBER	+60, -60 psf	18" o.c.	
			+75, -75 psf	18" o.c.	
			+85, -85 psf	18" o.c.	
			+91, -99 psf	16 1/2" o.c.	
			+100, -120 psf	13 1/2" o.c.	

* CORRESPONDS TO THE SPACING OF TWO STAGGERED ANCHORS (SEE DETAIL Y)



DETAIL Y-Y
JAMB CASE
N.T.S.

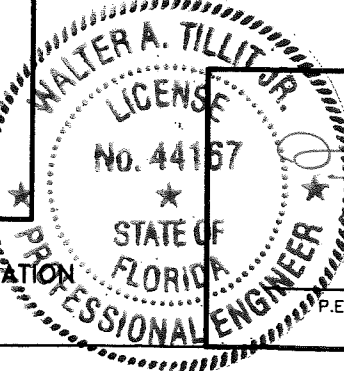


DETAIL X-X
HEAD & SILL CASE
N.T.S.

PRODUCT RENEWED
as complying with the Florida
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Acceptance No. 18-110802
Expiration Date 12/1/2023
By
Miami Dade Product Control

MIAMI DADE COUNTY

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)



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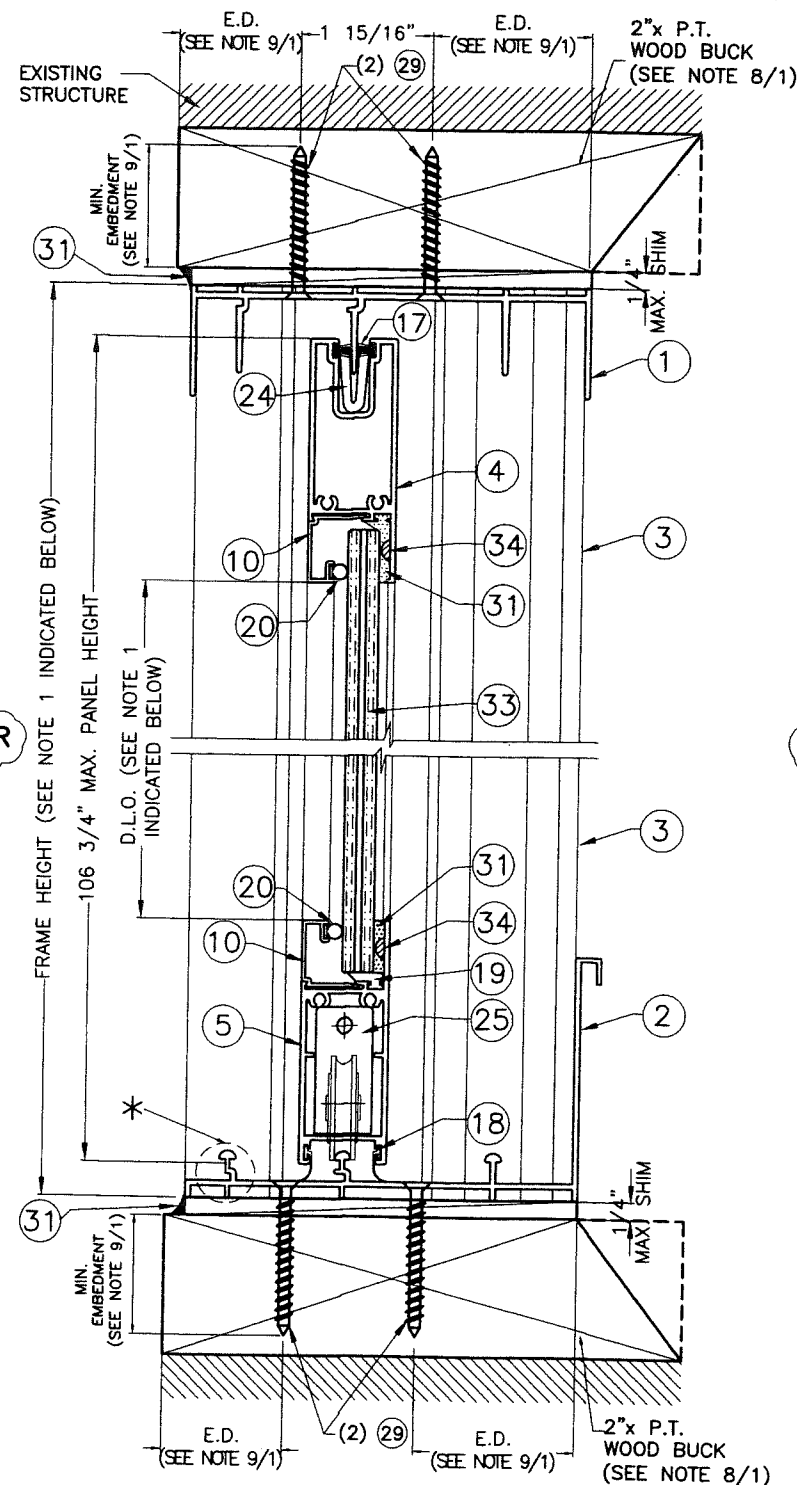
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SHEET 7A OF 18

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 15-161	08/08/17	3		
2			4		

EXTERIOR



WOOD SUBSTRATE

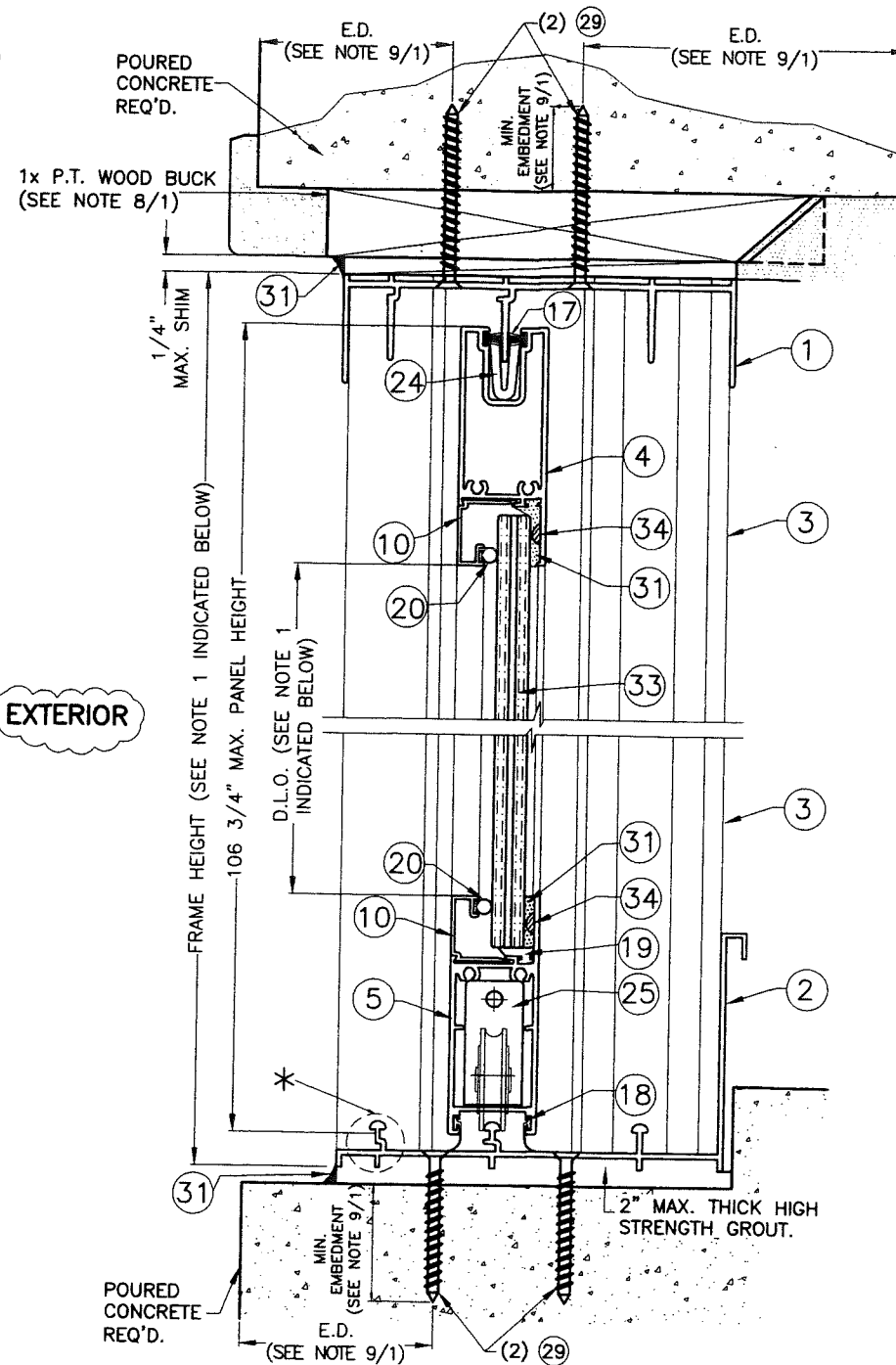
* (2) 1/4" LONG WEEP NOTCHES, (1) AT EACH END OF EACH SCREEN RETAINER TRACK AT (2)

NOTES:

1. FOR MAXIMUM FRAME & D.L.O. SEE SCHEDULE ON SHEET 4 & FOR ANCHOR'S CONCENTRATION NEEDED AT STILES/ASTRAGAL SEE SCHEDULE ON SHEET 7A.

2. SUBSTRATES CAN BE COMBINED AS APPLICABLE.

EXTERIOR

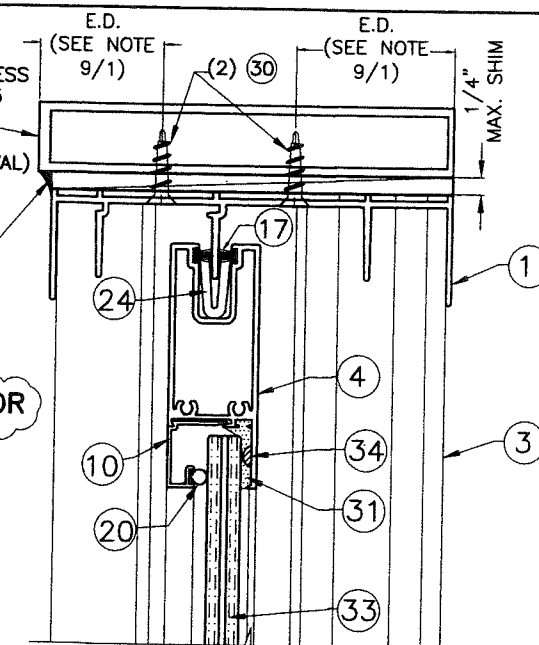


POURED CONCRETE/ CONCRETE BLOCK SUBSTRATE

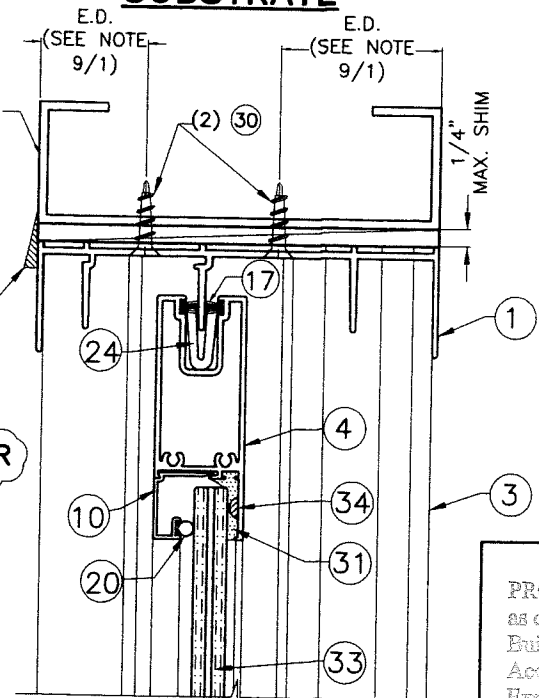
EXTERIOR

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

EXTERIOR



ALUMINUM MULLION SUBSTRATE



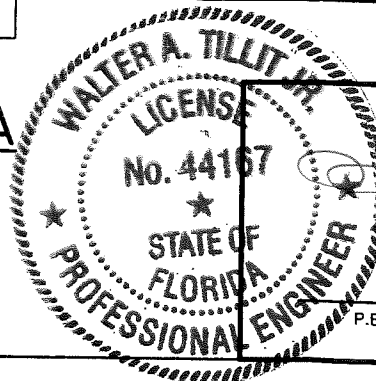
STEEL MEMBER SUBSTRATE

PRODUCT RENEWED as complying with the Florida Building Code Acceptance No. 18-1108.02 Expiration Date 12/11/2023 By Miami Dade Product Control

MIAMI DADE COUNTY

SECTION A-A

SCALE: 3/8"=1"



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e-mail: tilteco@aol.com
EB-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. 44167

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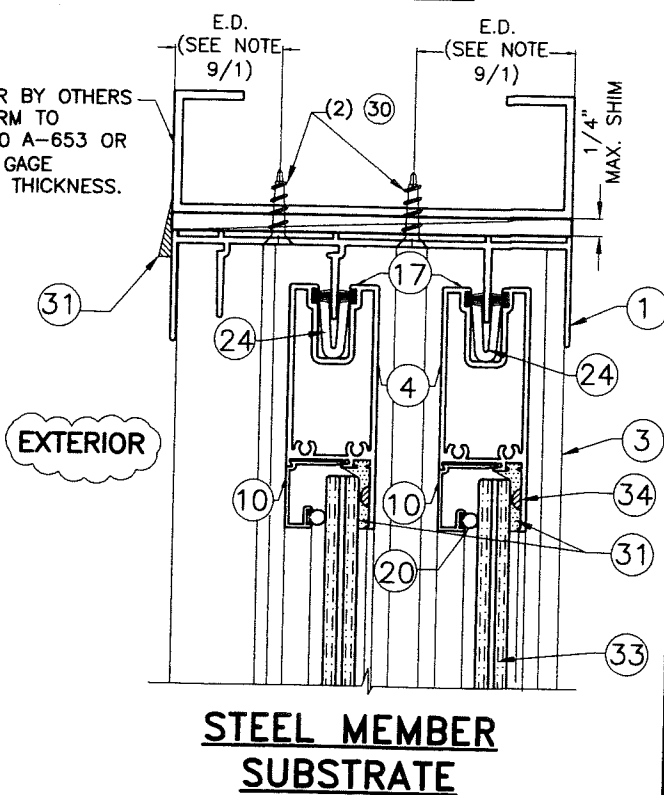
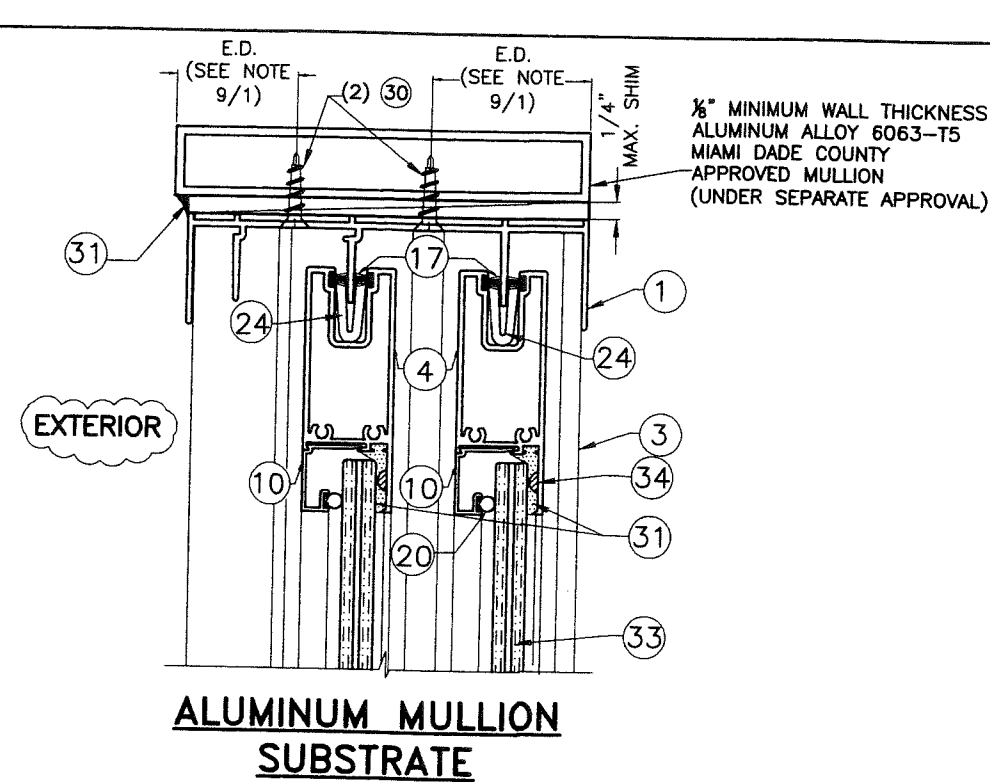
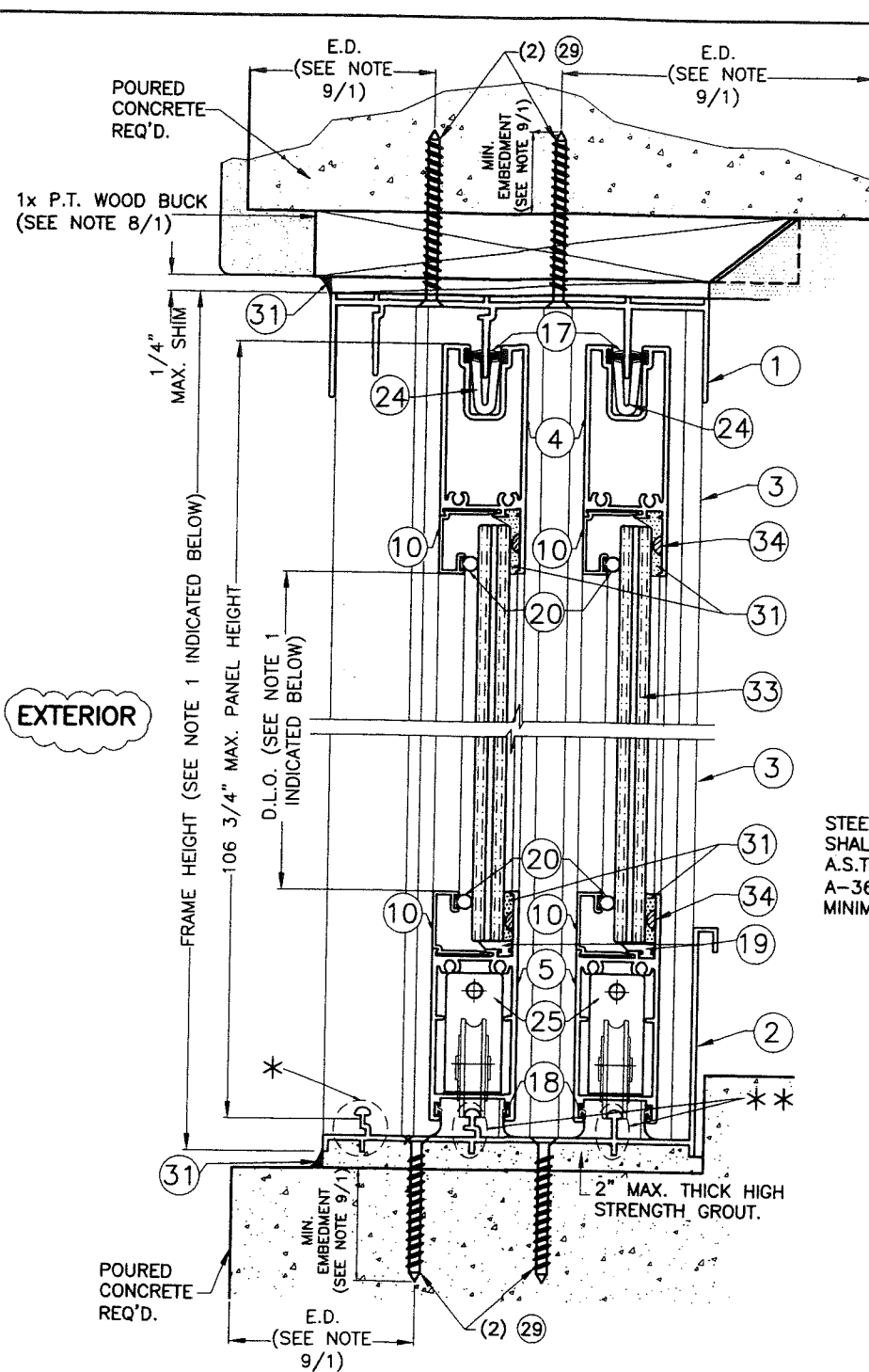
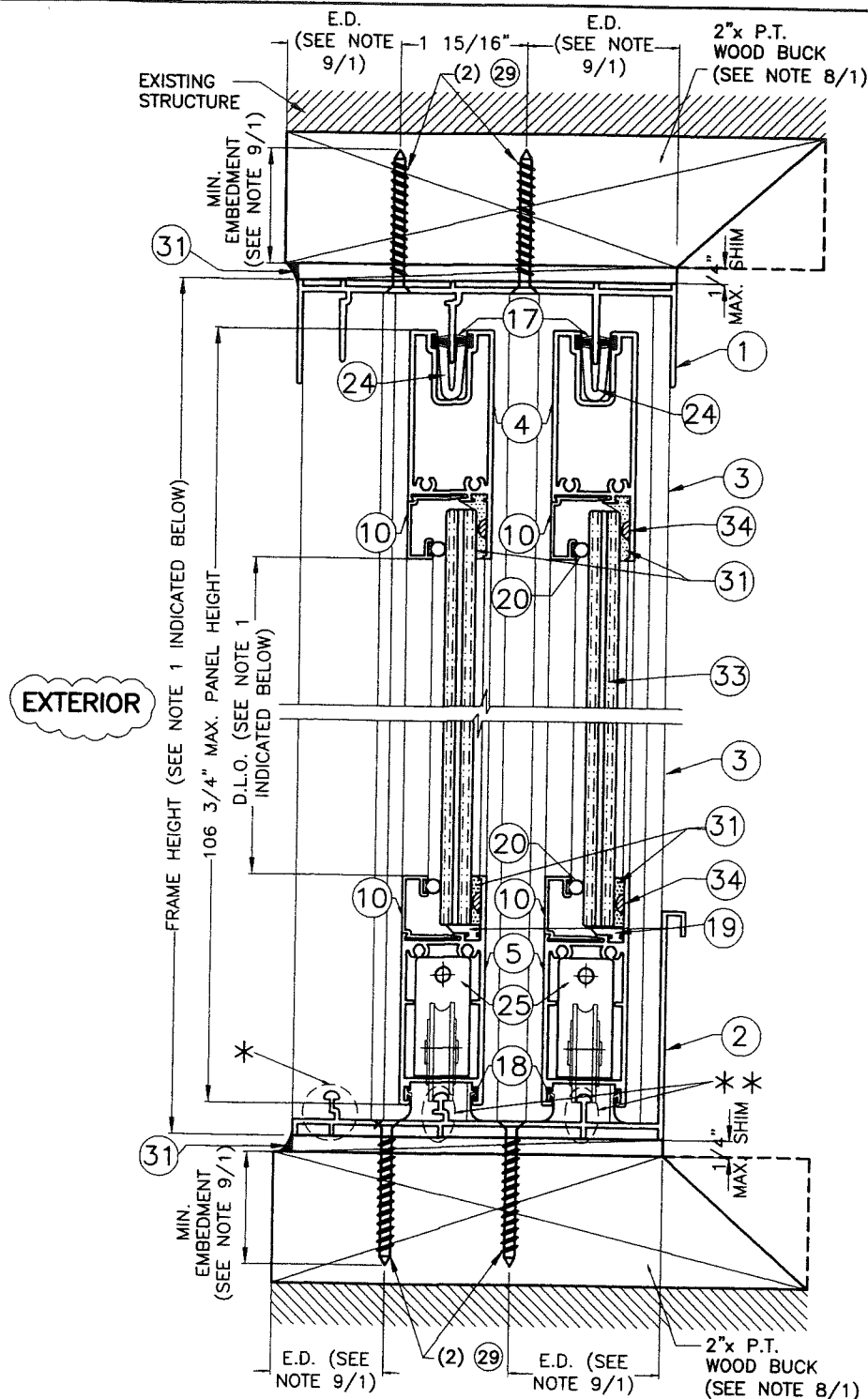
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 15-181	08/08/17	3		
2	1x & 2x P.T. BUCKS	10/30/18	4		

DRAWN BY: M.P.

10/30/18
DATE

17-147
DRAWING No

SHEET 8 OF 18



NOTES:

1. FOR MAXIMUM FRAME & D.L.O. SEE SCHEDULE ON SHEET 4 & FOR ANCHOR'S CONCENTRATION NEEDED AT STILES/ASTRAGAL SEE SCHEDULE ON SHEET 7A.
2. SUBSTRATES CAN BE COMBINED AS APPLICABLE.

* (2) 1/4" LONG WEEP NOTCHES, (1) AT EACH END OF EACH SCREEN RETAINER TRACK AT (2)

** (4) 11/16" LONG WEEP NOTCHES, (1) AT EACH END OF EACH OPERABLE PANEL TRACK AT (2)

SECTION B-B
SCALE: 3/8"=1"

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

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REV. NO. DESCRIPTION DATE
1 OLD 15-181 08/08/17
2 1x & 2x P.T. BUCKS 10/30/18

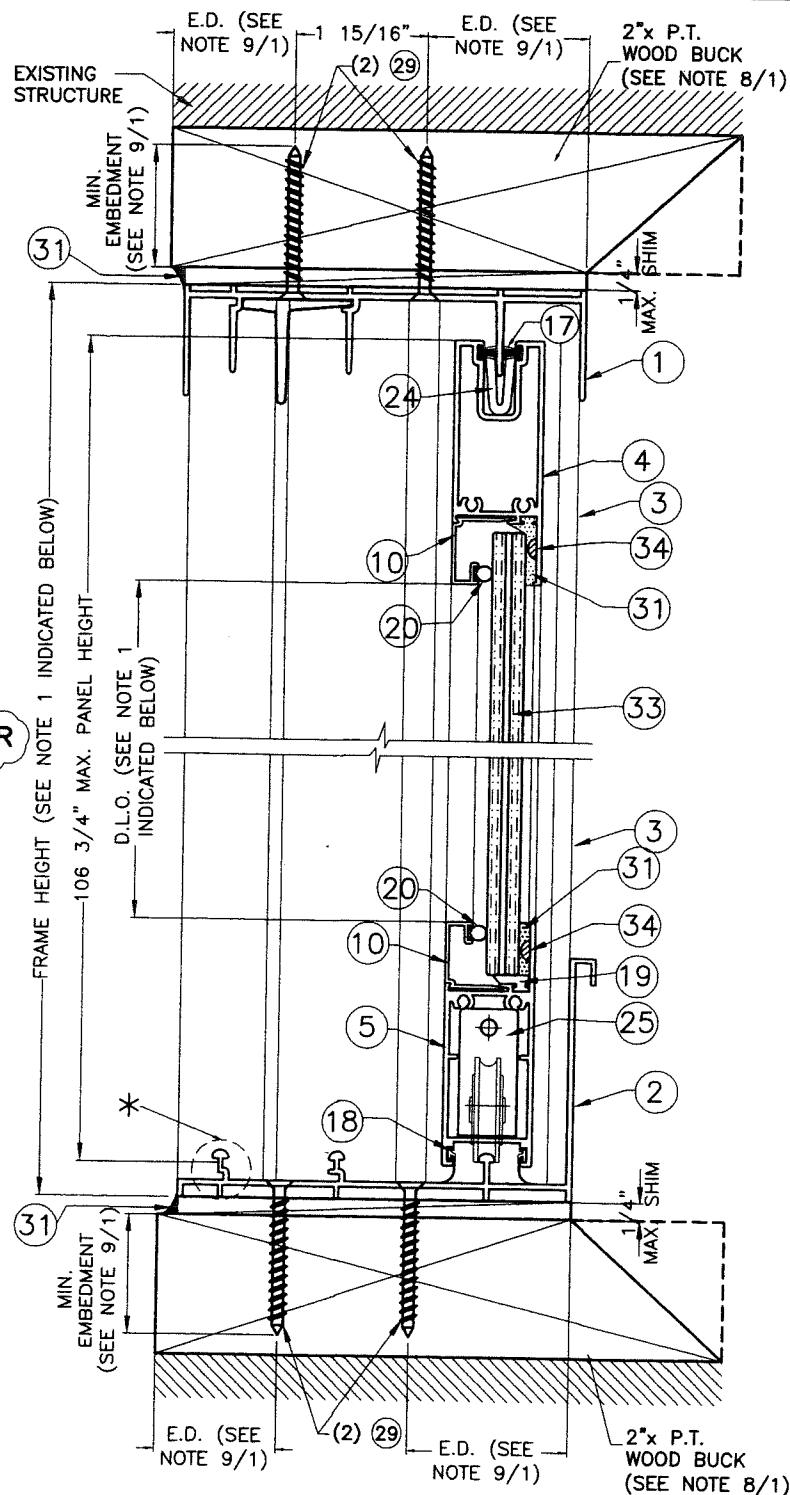
REV. No. DESCRIPTION DATE
3
4

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10/30/18 DATE
17-147 DRAWING No.
SHEET 9 OF 18

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 18-1108.02
Expiration Date 12/11/2023
By: *[Signature]*
Miami Dade Product Control

MIAMI DADE COUNTY

EXTERIOR



WOOD SUBSTRATE

* (2) 1/4" LONG WEEP NOTCHES,
(1) AT EACH END OF EACH
SCREEN RETAINER TRACK AT (2)

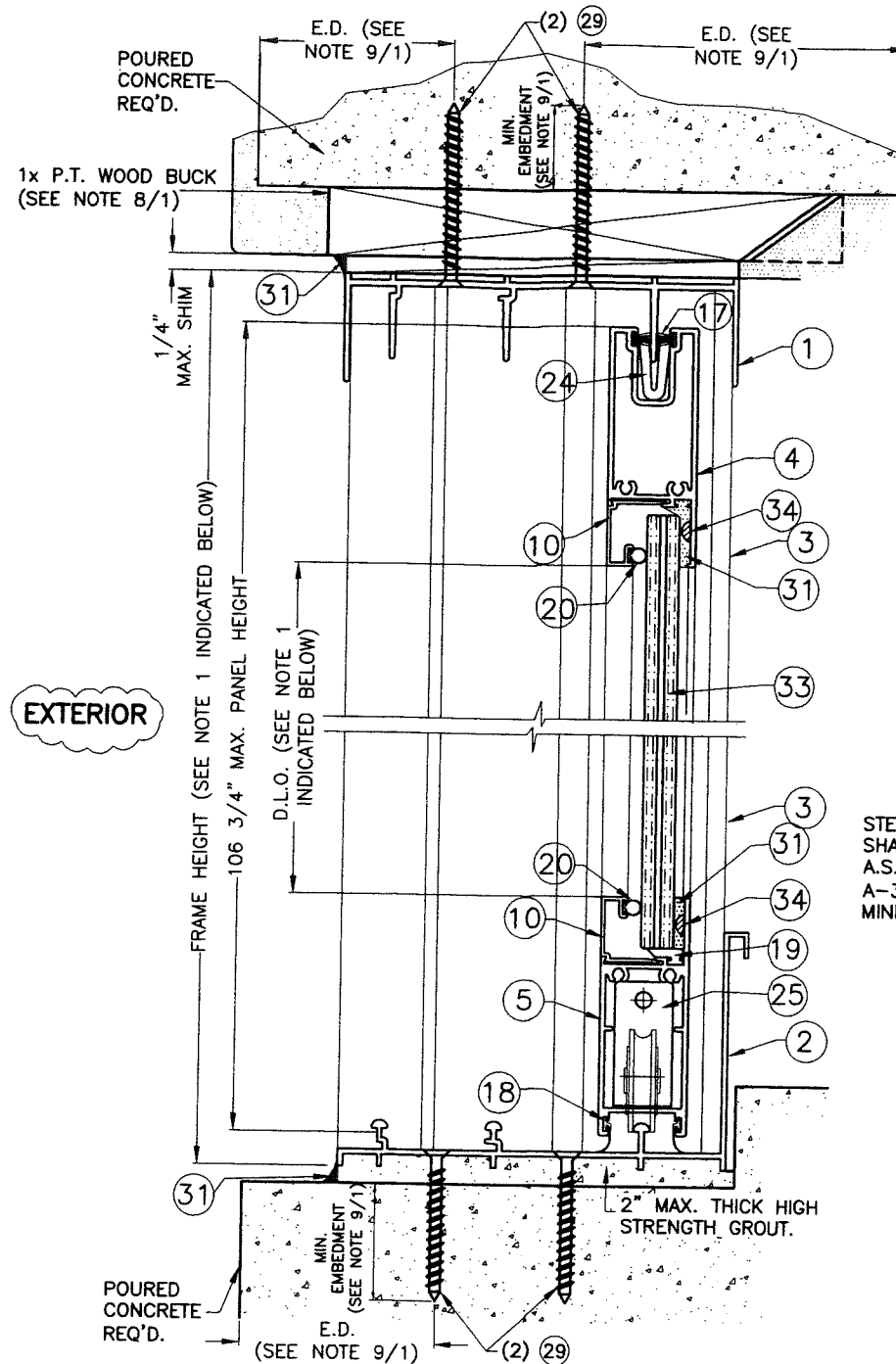
NOTES:

1. FOR MAXIMUM FRAME & D.L.O. SEE SCHEDULE ON SHEET 4 & FOR ANCHOR'S CONCENTRATION NEEDED AT STILES/ASTRAGAL SEE SCHEDULE ON SHEET 7A.
2. SUBSTRATES CAN BE COMBINED AS APPLICABLE.

SECTION B'-B

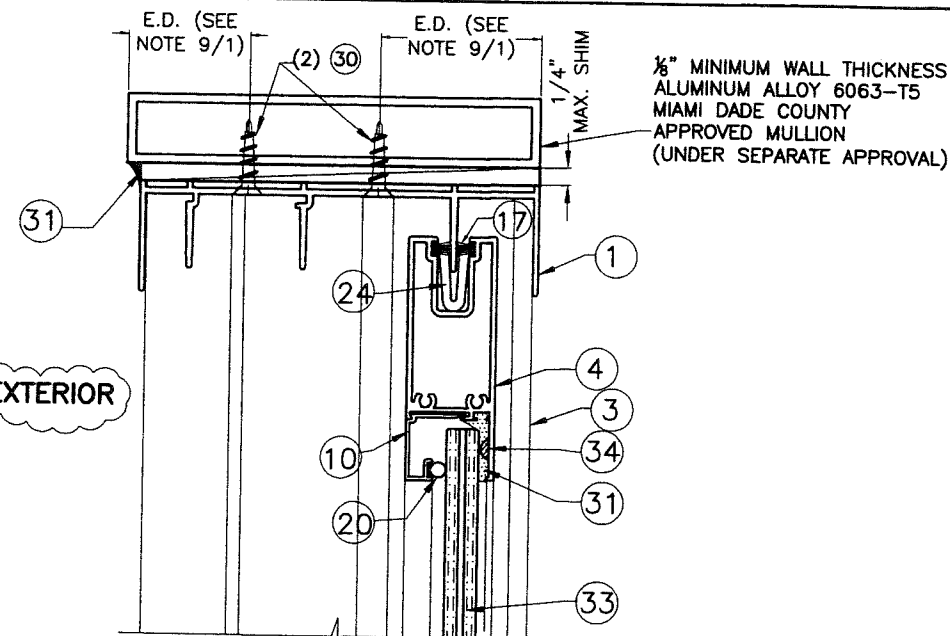
SCALE: 3/8"=1"

EXTERIOR



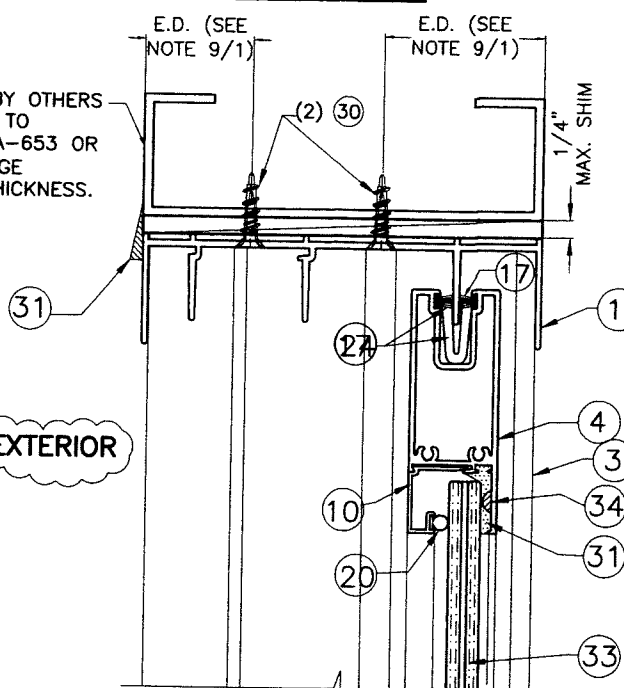
POURED CONCRETE/ CONCRETE BLOCK SUBSTRATE

EXTERIOR



ALUMINUM MULLION SUBSTRATE

EXTERIOR



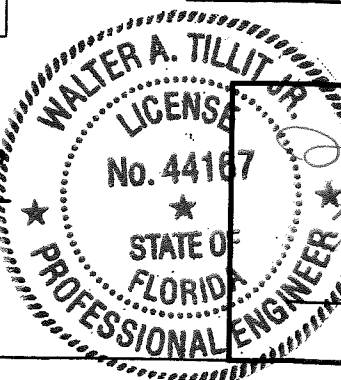
STEEL MEMBER SUBSTRATE

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 18-1108.02
Expiration Date 12/11/2023

By
M.P. M.P. Control

MIAMI DADE COUNTY

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)



P.E. SEAL/SIGNATURE/DATE

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TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 38th St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone : (305)871-1530 . Fax : (305)871-1531
e-mail: tilteco@aol.com
EB-0006719
WALTER A. TILLIT JR., P.E.
FLORIDA Lic. 44167

SERIES 11000 HIGH IMPACT SLIDING GLASS DOOR



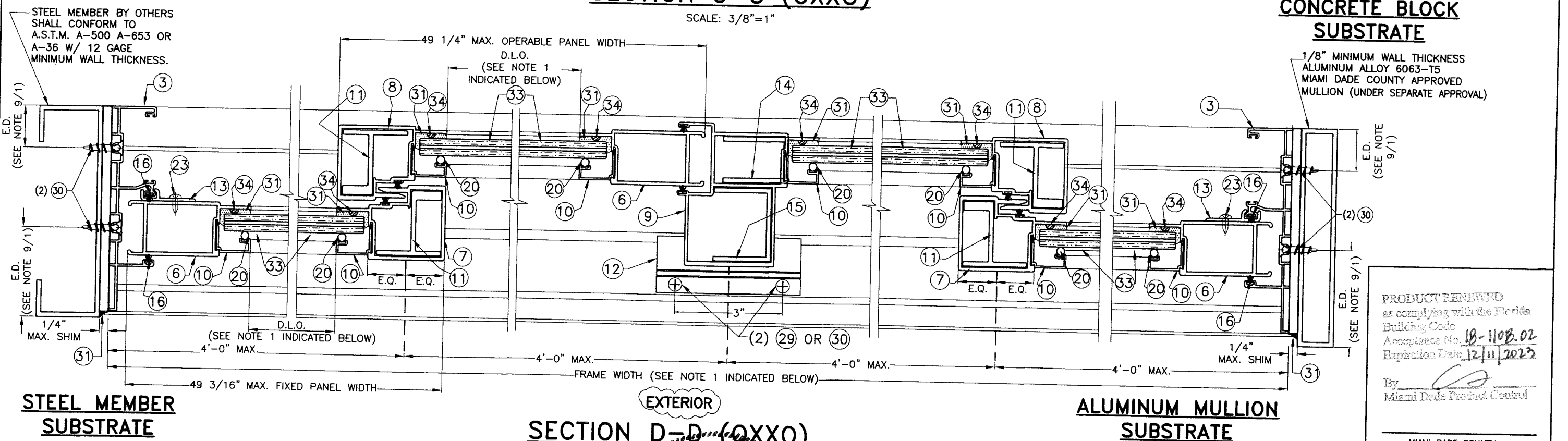
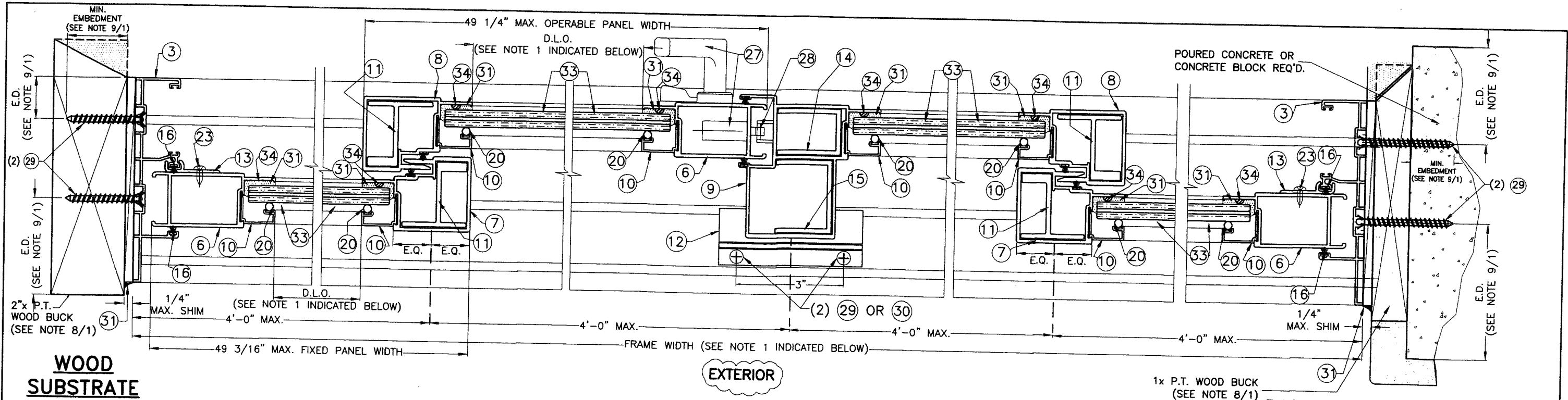
290 WEST 78 ROAD
HIALEAH, FL 33014
PHONE: (305) 558-8103
FAX: (305) 558-6665
www.generalimpact.com

DRAWN BY:
M.P.

10/30/18
DATE

17-147
DRAWING No

SHEET 10 OF 18



PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 18-1108.02
Expiration Date 12/11/2023
By *[Signature]*
Miami Dade Product Control
MIAMI DADE COUNTY

- NOTES:**
1. FOR MAXIMUM FRAME & D.L.O. SEE SCHEDULE ON SHEET 4 & FOR ANCHOR'S SPACING SEE SCHEDULE ON SHEET 7A.
 2. SUBSTRATES CAN BE COMBINED AS APPLICABLE.

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

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EB-0006719
WALTER A. TILLIT JR., P.E.
FLORIDA Lic. 44167

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

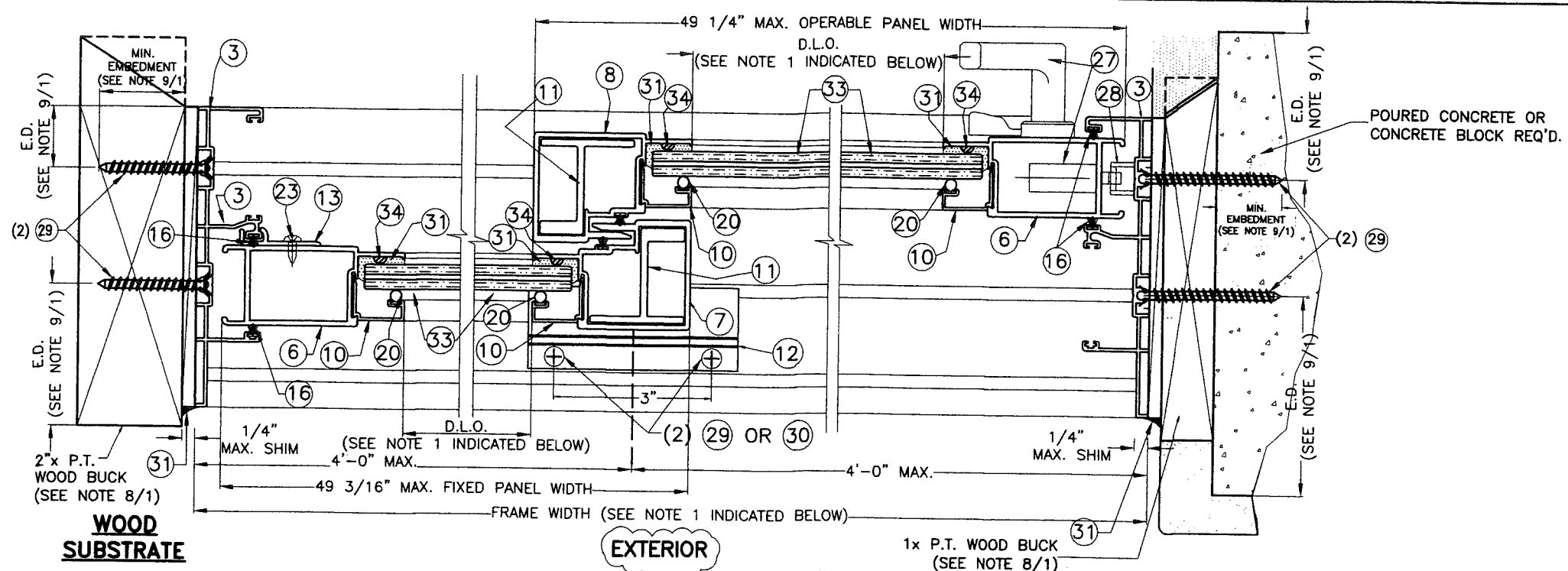
SERIES 11000 HIGH IMPACT SLIDING GLASS DOOR

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 15-181	08/08/17	3		
2	1x & 2x P.T. BUCKS	10/30/18	4		

290 WEST 78 ROAD
HALEAH, FL. 33014
PHONE: (305) 558-8103
FAX: (305) 558-6665
www.generalimpact.com

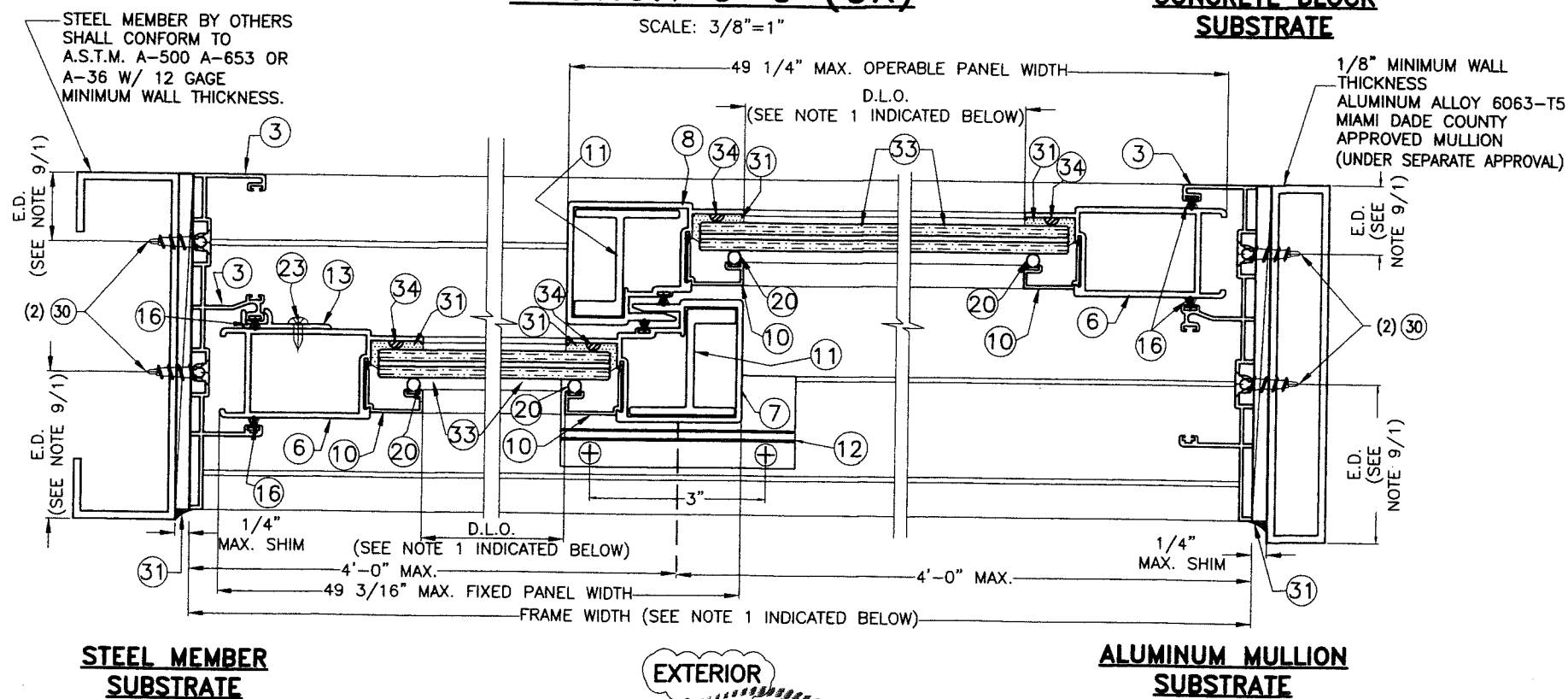
GENERAL
IMPACT GLASS & WINDOWS
The Clear Solution

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M.P.
10/30/18
DATE
17-147
DRAWING No
SHEET 11 OF 18



SECTION C-C (OX)

SCALE: 3/8"=1"

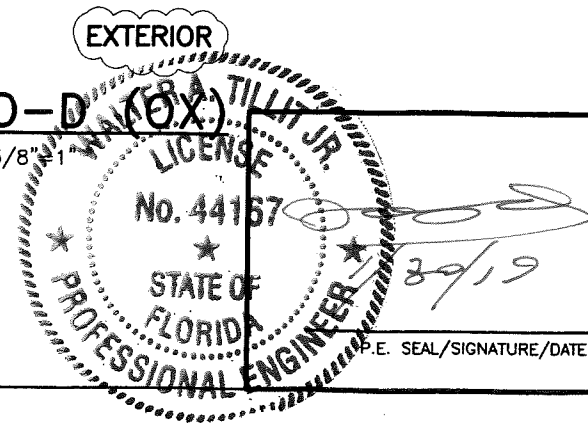


SECTION D-D (OX)

SCALE: 3/8"=1"

NOTES:

1. FOR MAXIMUM FRAME & D.L.O. SEE SCHEDULE ON SHEET 4 & FOR ANCHOR'S SPACING SEE SCHEDULE ON SHEET 7A.
2. SUBSTRATES CAN BE COMBINED AS APPLICABLE.



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DATE

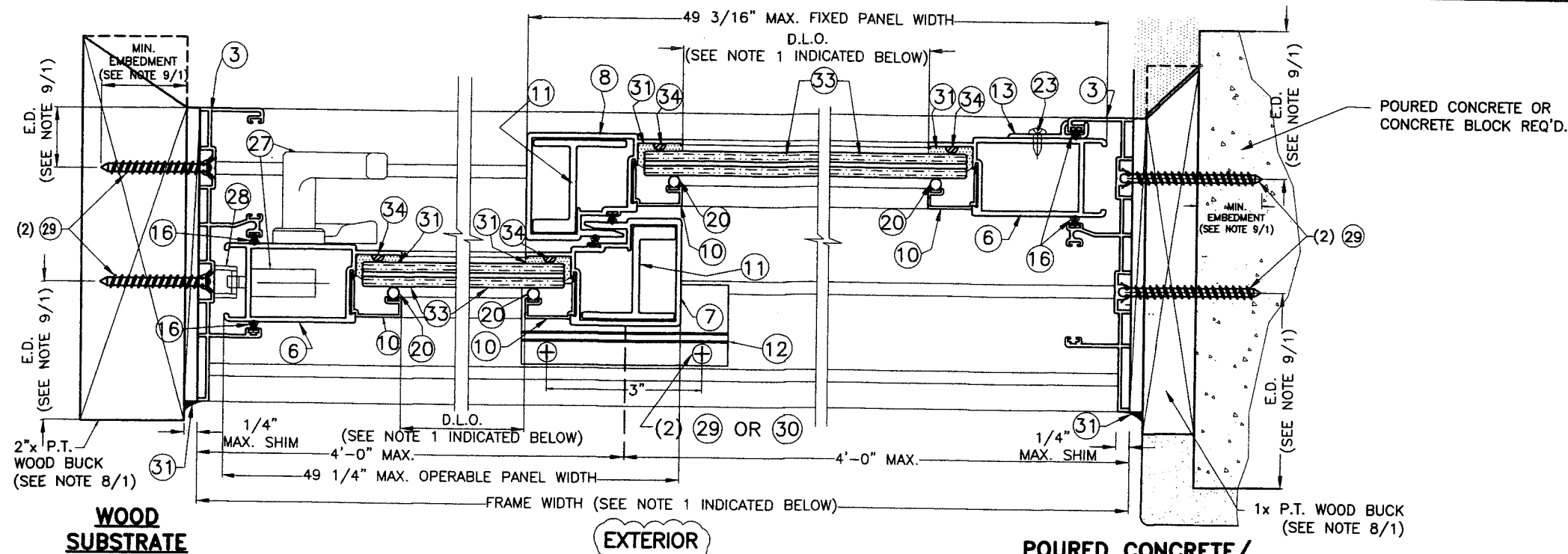
17-147
DRAWING No

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 15-161	06/08/17	3		
2	1x & 2x P.T. BUCKS	10/30/18	4		

SHEET 12 OF 18

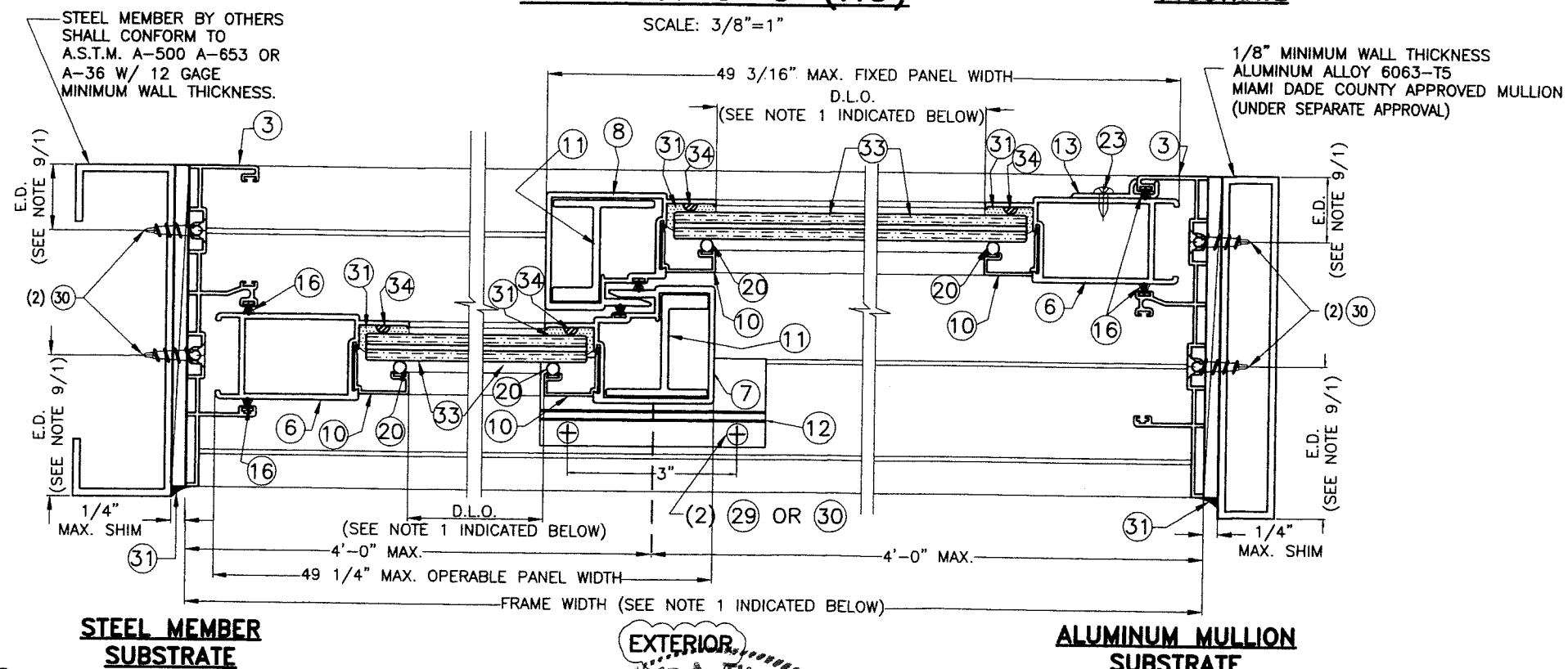
PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 18-1108.02
Expiration Date 12/11/2023
By 
Miami Dade Product Control

MIAMI DADE COUNTY



SECTION C-C (XO)

SCALE: 3/8"=1"

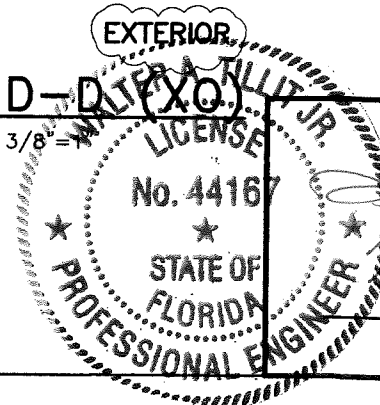


NOTES:

1. FOR MAXIMUM FRAME & D.L.O. SEE SCHEDULE ON SHEET 4 & FOR ANCHOR'S SPACING SEE SCHEDULE ON SHEET 7A.
2. SUBSTRATES CAN BE COMBINED AS APPLICABLE.

SECTION D-D (XO)

SCALE: 3/8"=1"



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REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 15-161	06/08/17	3		
2	1x & 2x P.T. BUCKS	10/30/18	4		

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 18-1108.02
Expiration Date 12/11/2023

By Miami Dade County Control

MIAMI DADE COUNTY

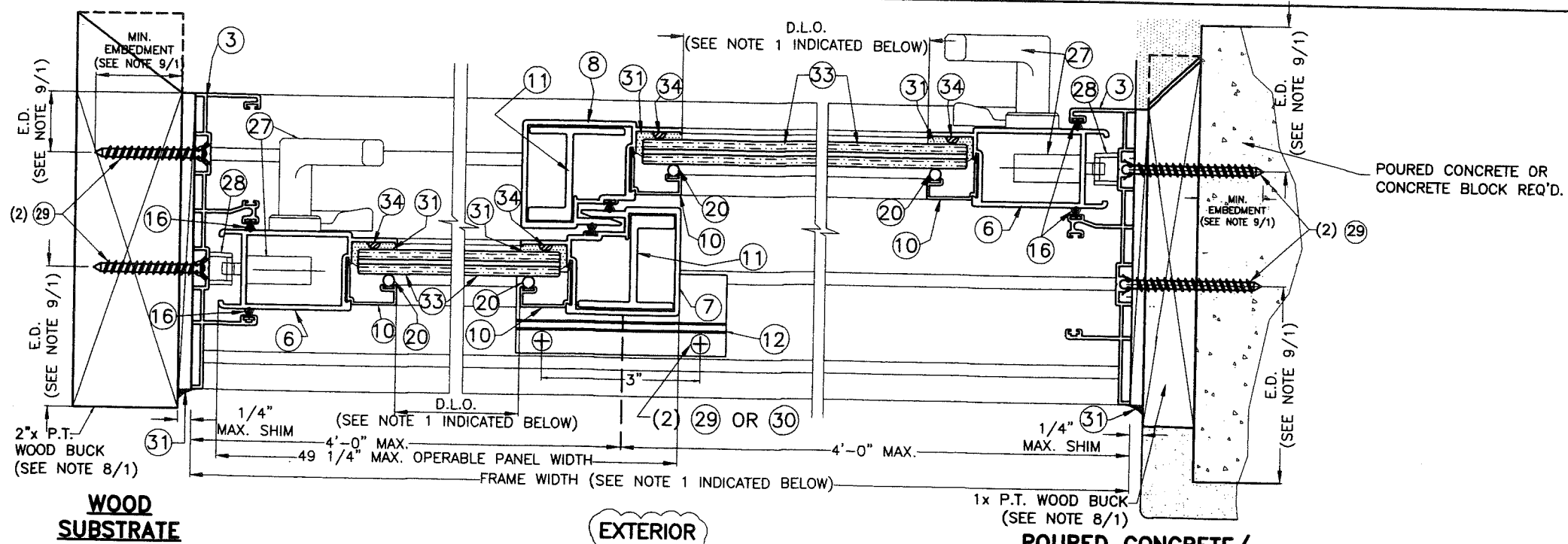
FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

DRAWN BY:
M.P.

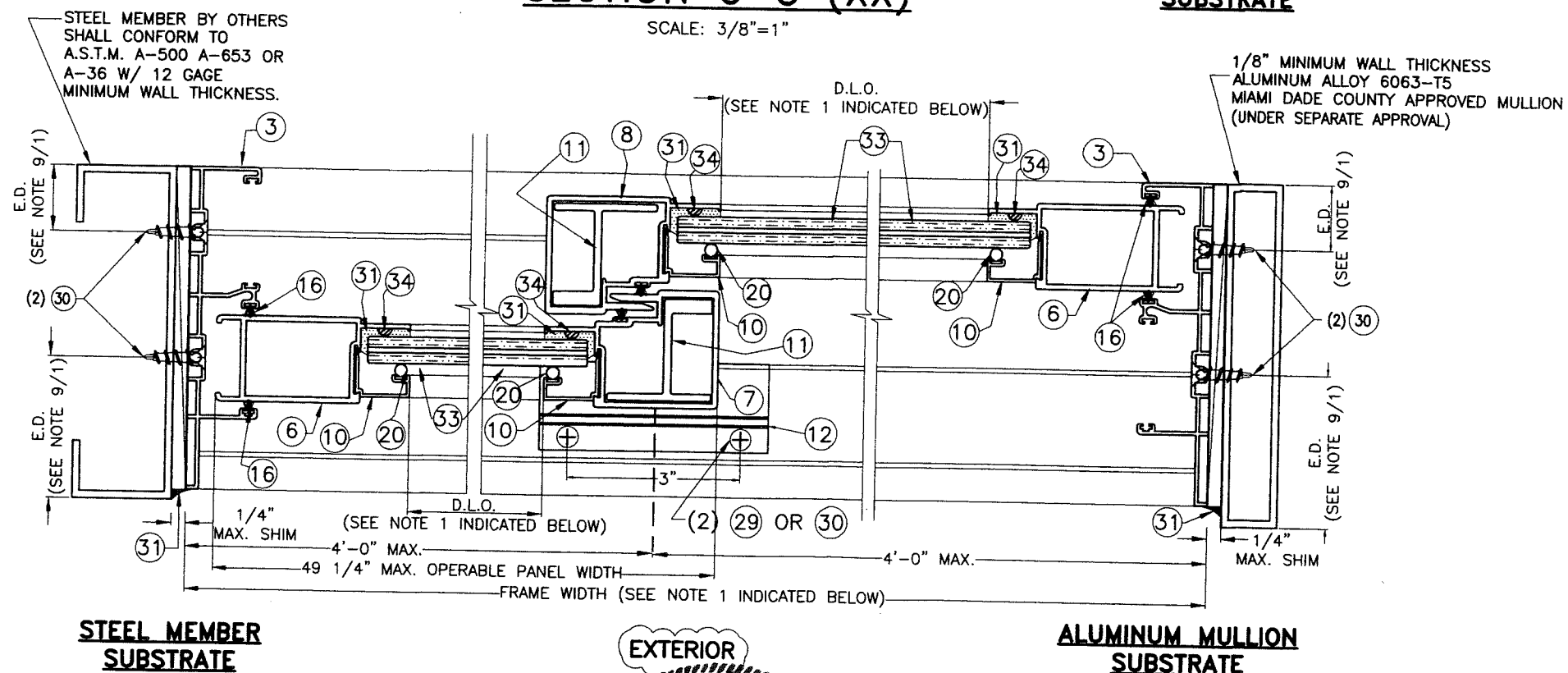
10/30/18
DATE

17-147
DRAWING No

SHEET 13 OF 18



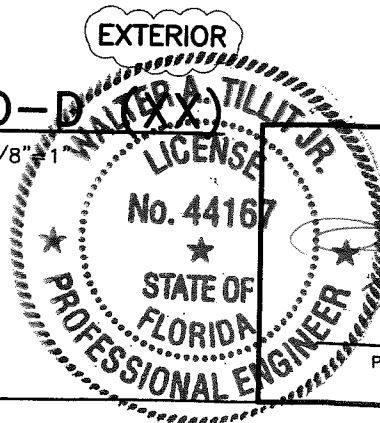
SECTION C-C (XX)
SCALE: 3/8"=1"



SECTION D-D (XX)
SCALE: 3/8"=1"

NOTES:

1. FOR MAXIMUM FRAME & D.L.O. SEE SCHEDULE ON SHEET 4 & FOR ANCHOR'S SPACING SEE SCHEDULE ON SHEET 7A.
2. SUBSTRATES CAN BE COMBINED AS APPLICABLE.



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REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 15-181	08/08/17	3		
2	1x & 2x P.T. BUCKS	10/30/18	4		

DRAWN BY:
M.P.

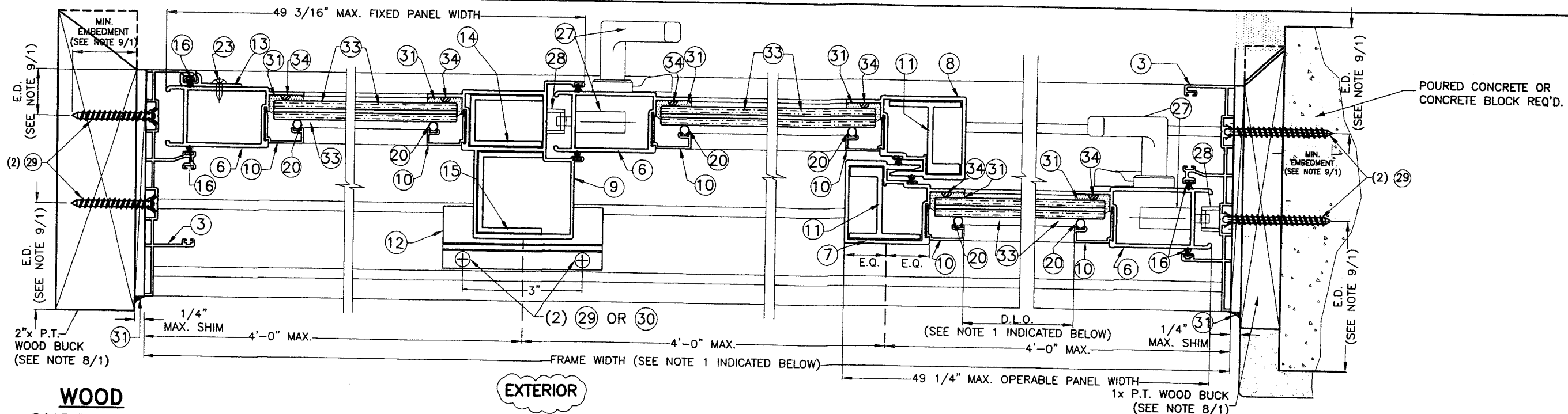
10/30/18
DATE

17-147
DRAWING No

SHEET 14 OF 18

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 18-1108.02
Expiration Date 12/11/2023
By CS
Miami Dade Product Control

MIAMI DADE COUNTY

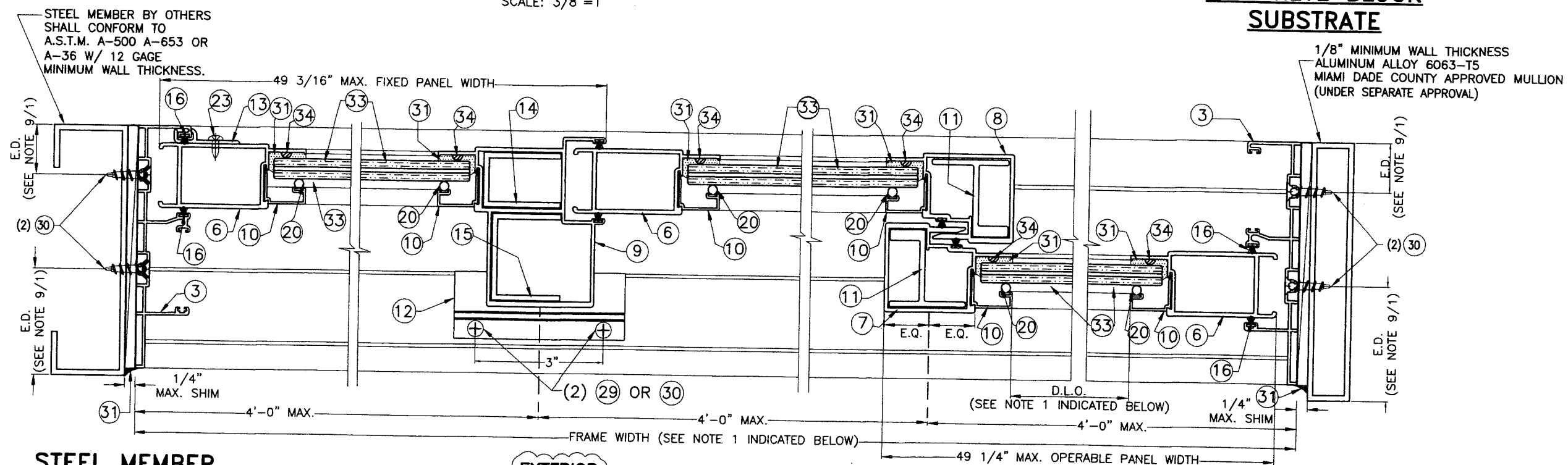


**WOOD
SUBSTRATE**

SECTION C-C (OXX)

SCALE: 3/8"=1"

**POURED CONCRETE/
CONCRETE BLOCK
SUBSTRATE**



**STEEL MEMBER
SUBSTRATE**

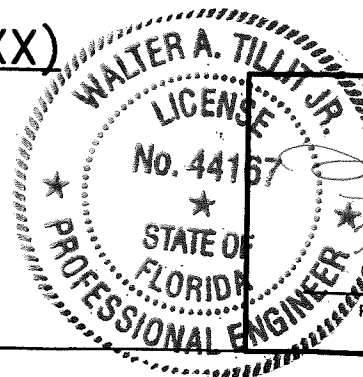
SECTION D-D (OXX)

SCALE: 3/8"=1"

**ALUMINUM MULLION
SUBSTRATE**

NOTES:

1. FOR MAXIMUM FRAME & D.L.O. SEE SCHEDULE ON SHEET 4 & FOR ANCHOR'S SPACING SEE SCHEDULE ON SHEET 7A.
2. SUBSTRATES CAN BE COMBINED AS APPLICABLE.



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DRAWN BY:
M.P.

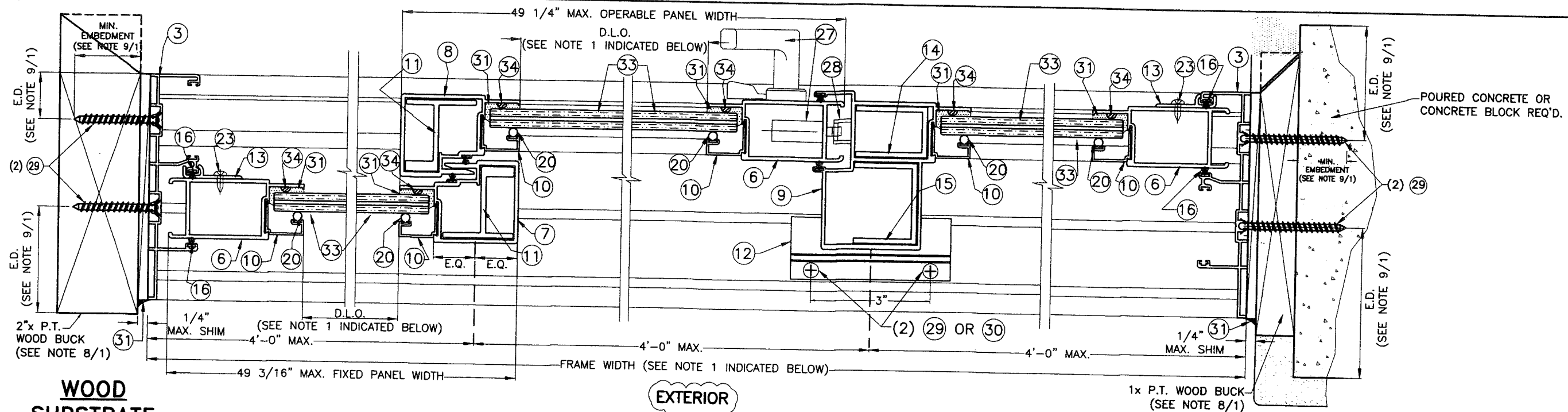
10/30/18
DATE

17-147
DRAWING No

SHEET 15 OF 18

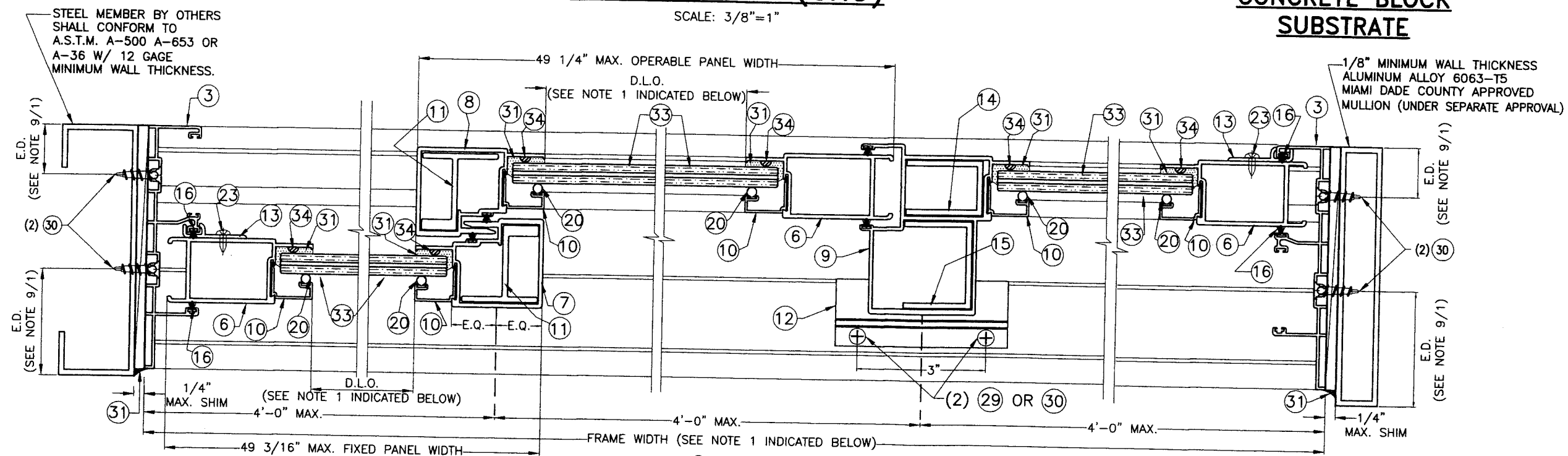
PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 18-1108.02
Expiration Date 12/11/2023
By 
Miami Dade Product Control

MIAMI DADE COUNTY



SECTION C-C (OXO)

SCALE: 3/8"=1"

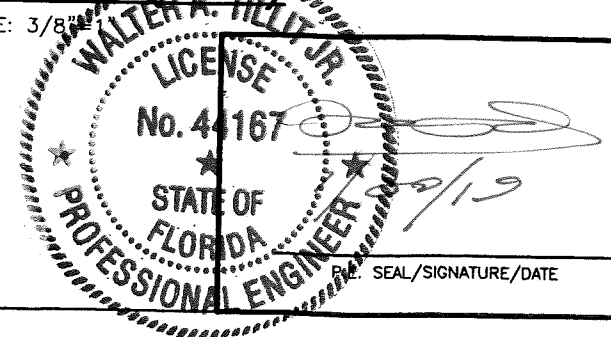


SECTION D-D (OXO)

SCALE: 3/8"=1"

NOTES:

1. FOR MAXIMUM FRAME & D.L.O. SEE SCHEDULE ON SHEET 4 & FOR ANCHOR'S SPACING SEE SCHEDULE ON SHEET 7A.
2. SUBSTRATES CAN BE COMBINED AS APPLICABLE.



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 e-mail: tilteco@aol.com
 EB-0006719
 WALTER A. TILLIT Jr., P.E.
 FLORIDA Lic. 44167

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

SERIES 11000 HIGH IMPACT SLIDING GLASS DOOR



290 WEST 78 ROAD
 HIALEAH, FL 33014
 PHONE: (305) 558-8103
 FAX: (305) 558-6665
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REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 15-181	08/08/17	3		
2	1x & 2x P.T. BUCKS	10/30/18	4		

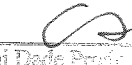
DRAWN BY:
M.P.

10/30/18
DATE

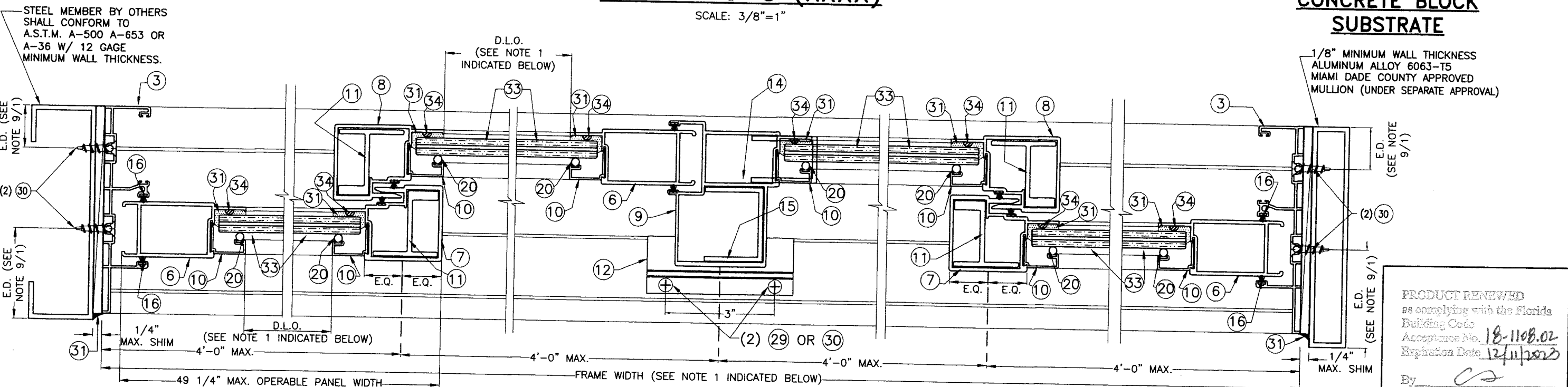
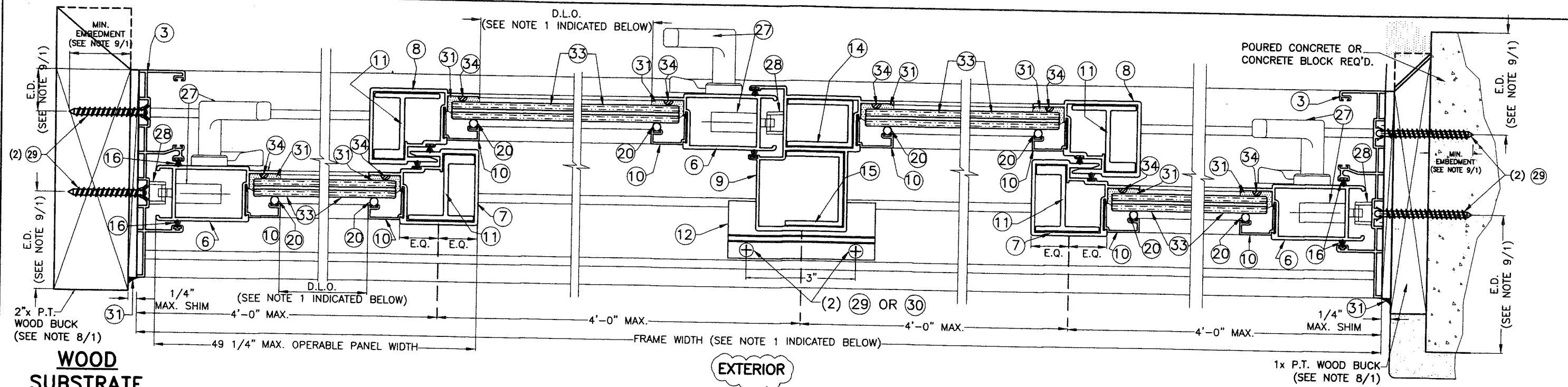
17-147
DRAWING No

SHEET 16 OF 18

PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No. 18-1108.02
 Expiration Date 12/11/2023

By 
 Miami Dade Professional Engineer

MIAMI DADE COUNTY



- NOTES:**
1. FOR MAXIMUM FRAME & D.L.O. SEE SCHEDULE ON SHEET 4 & FOR ANCHOR'S SPACING SEE SCHEDULE ON SHEET 7A.
 2. SUBSTRATES CAN BE COMBINED AS APPLICABLE.

SECTION D-D (XXXX)

SCALE: 3/8"=1"

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

SEAL/SIGNATURE/DATE

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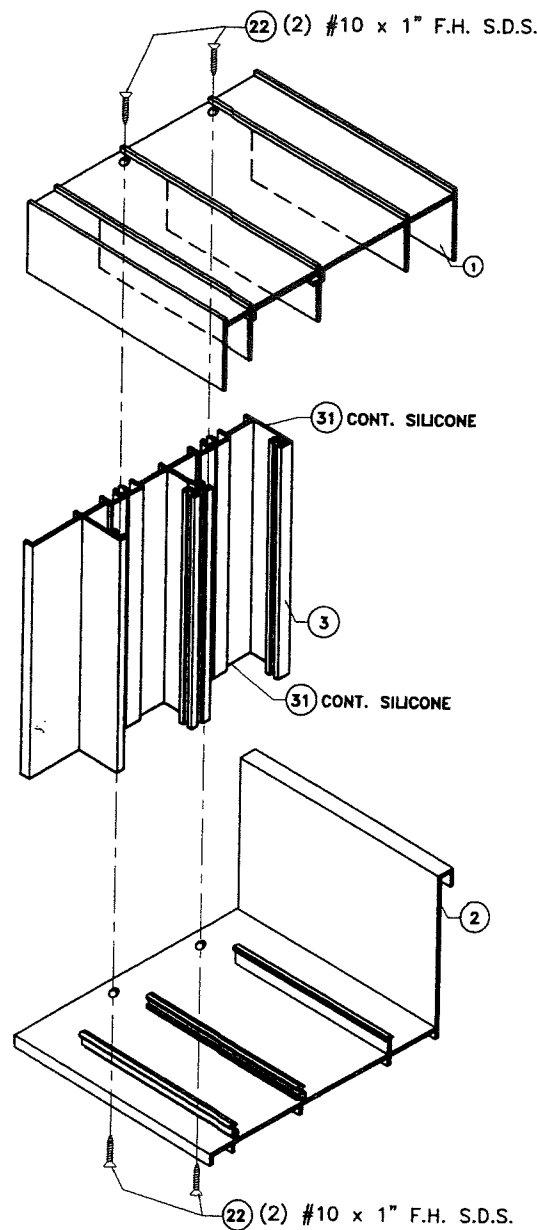
TILTECO INC.
 TILLIT TESTING & ENGINEERING COMPANY
 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166
 Phone: (305)871-1530 Fax: (305)871-1531
 e-mail: tilteco@aol.com
 EB-0006719
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 FLORIDA Lic. 44167

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)					
SERIES 11000 HIGH IMPACT SLIDING GLASS DOOR			DRAWN BY:		
GENERAL IMPACT GLASS & WINDOWS The Clear Solution 290 WEST 78 ROAD HIALEAH, FL 33014 PHONE: (305) 558-8103 FAX: (305) 558-6665 www.generalimpact.com			M.P.		
			10/30/18 DATE		
			17-147 DRAWING No		
			SHEET 17 OF 18		
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 15-181	08/08/17	3		
2	1x & 2x P.T. BUCKS	10/30/18	4		

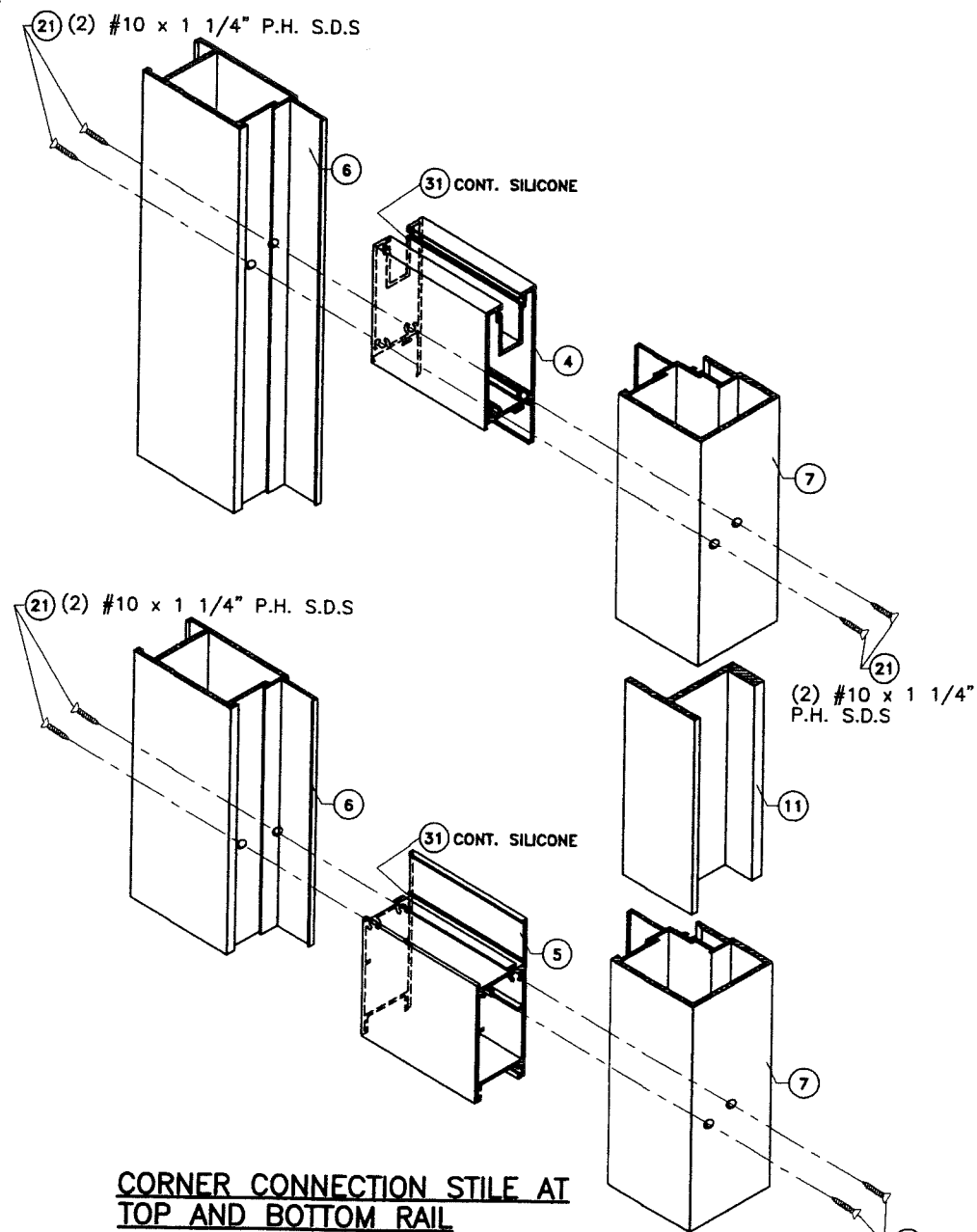
PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No. 18-1108.02
 Expiration Date 12/11/2023

By *CS*
 Miami Dade Product Control

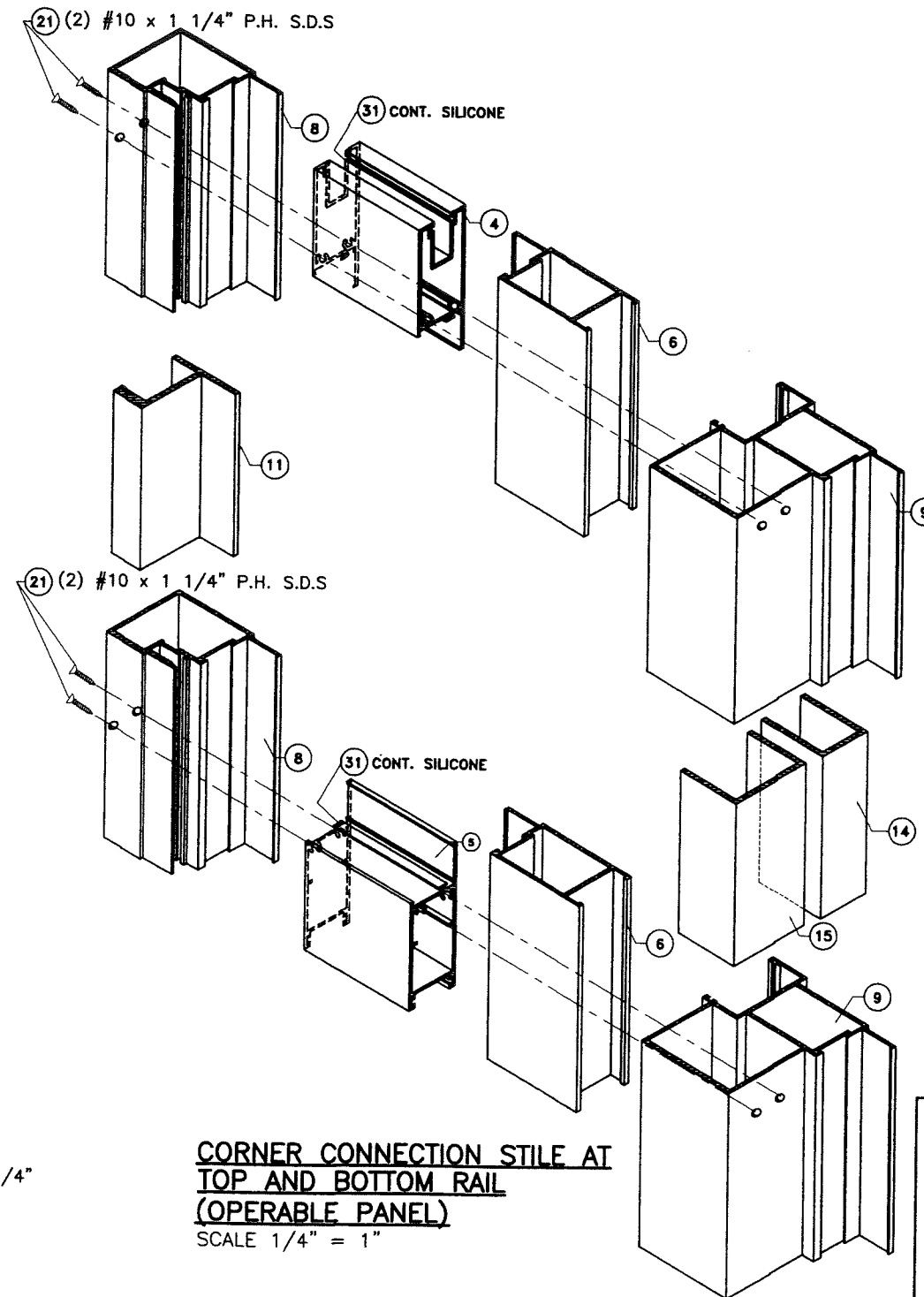
MIAMI DADE COUNTY



**CORNER CONNECTION AT
FRAME HEAD AND SILL**
SCALE 1/4" = 1"



**CORNER CONNECTION STILE AT
TOP AND BOTTOM RAIL
(NON OPERABLE PANEL)**
SCALE 1/4" = 1"

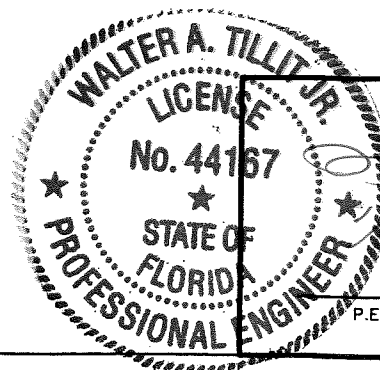


**CORNER CONNECTION STILE AT
TOP AND BOTTOM RAIL
(OPERABLE PANEL)**
SCALE 1/4" = 1"

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 18-1108.03
Expiration Date 12/11/2023
By [Signature]
Miami Dade Product Control

MIAMI DADE COUNTY

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)



P.E. SEAL/SIGNATURE/DATE

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SERIES 11000 HIGH IMPACT SLIDING GLASS DOOR



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10/30/18
DATE

17-147
DRAWING No

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 15-181	08/06/17	3		
2			4		

SHEET 18 OF 18