

GENERAL NOTES:

1. SERIES VPF 8000 OUTSWING ALUMINUM CASEMENT WINDOW—LARGE MISSILE IMPACT RESISTANT (TYPICAL & HEAVY SYSTEMS), SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH 2020 (7th EDITION) OF THE FLORIDA BUILDING CODE. SERIES VPF 8000 OUTSWING ALUMINUM CASEMENT WINDOW (TYPICAL & HEAVY SYSTEMS) MAY BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES (H.V.H.Z) AND 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 7-16 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 7-16 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 OVERSTRESSED, A 33% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS **NOT** USED IN THEIR ANALYSIS. FASTENERS SPACING IN WOOD HAS BEEN DETERMINED IN ACCORDANCE WITH N.D.S. 2018. THIS PRODUCT'S ADEQUACY FOR IMPACT AND WIND RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTIONS 1626 & 1609.1.2 OF THE ABOVE MENTIONED CODE AS PER PROTOCOLS TAS-201, TAS-202, TAS-203, PER FENESTRATION TESTING LABORATORY REPORT # 9073 AND AS PER SUBMITTED STRUCTURAL CALCULATIONS, PERFORMED AS PER SECTIONS 1616 & 1604 OF THE FLORIDA BUILDING CODE.

2. **MAXIMUM A.S.D. DESIGN PRESSURE RATINGS FOR THIS WINDOW SHALL BE AS SHOWN ON SHEET 27.**

3. **SERIES VPF 8000 OUTSWING ALUMINUM CASEMENT WINDOW (TYPICAL & HEAVY SYSTEMS) WILL NOT REQUIRE A HURRICANE PROTECTION DEVICE.**

4. **SERIES VPF 8000 OUTSWING ALUMINUM CASEMENT WINDOW (TYPICAL & HEAVY SYSTEMS) ARE APPROVED FOR AIR AND WATER INFILTRATION.**

5. SERIES VPF 8000 OUTSWING ALUMINUM CASEMENT WINDOW (TYPICAL & HEAVY SYSTEMS) SHALL COMPLY WITH SECTION 2406 OF THE FLORIDA BUILDING CODE.

6. ALL COMPONENTS FOR THIS PRODUCT SHALL BE AS PER BILL OF MATERIAL & COMPONENTS SHEETS 2, 3 & 4.

7. ALL SCREWS USED FOR ASSEMBLY CONNECTIONS (METAL TO METAL) TO BE STAINLESS STEEL 410 AISI SERIES & SHALL COMPLY W/ FLORIDA BUILDING CODE SECTION 2411.3.3.4.

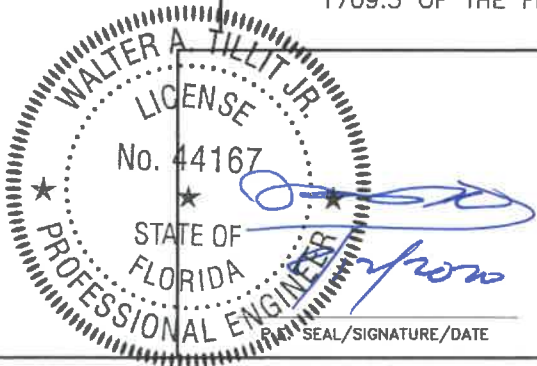
8. WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE BUILDING STRUCTURE. WOOD BUCKS MUST BE SOUTHERN PINE #2, G=0.55, AND SHALL COMPLY WITH SECTION 2411.3.3.3 OF THE FLORIDA BUILDING CODE.

(8.1) 2X WOOD BUCKS MUST BE PROPERLY ANCHORED TO EXISTING STRUCTURE TO TRANSFER LOADS TO IT. ANCHORAGE IS INDEPENDENT OF WINDOW FRAME ANCHORAGE. WINDOW 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 USED 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 WITH ADAPTOR (COMPONENT # ⑥) FOR TYPICAL SYSTEM & COMP. # ①A FOR HEAVY SYSTEM) 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.

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



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

(A) **TO EXISTING POURED CONCRETE:** (MIN. f'c = 3000 psi)
- 1/4"Ø TAPCON ANCHOR W/ 1 3/4" MIN. EMBEDMENT, 2 1/2" MIN. EDGE DISTANCE & 4" MIN. SPACING, AS MANUFACTURED BY ITW/BUILDEX, INC. (COMPONENT ⑫). SEE NOTE 8.

- 1/4"Ø KWIK-CON II W/ 1 3/4" MIN. EMBEDMENT, 1 1/2" MIN. EDGE DISTANCE & 3" MIN. SPACING, AS MANUFACTURED BY HILTI, INC. (COMPONENT ⑫A). SEE NOTE 8.

(B) **TO EXISTING A.S.T.M. C-90 CONCRETE BLOCK WALL.**

- 1/4"Ø TAPCON ANCHOR W/ 1" MIN. EMBEDMENT, 2 1/2" MIN. EDGE DISTANCE & 4" MIN. SPACING. AS MANUFACTURED BY ITW/BUILDEX, INC. (COMPONENT ⑫). SEE NOTE 8.

- 1/4"Ø KWIK-CON II W/ 1" MIN. EMBEDMENT, 1 1/2" MIN. EDGE DISTANCE & 3" MIN. SPACING, AS MANUFACTURED BY HILTI, INC. (COMPONENT ⑫A). SEE NOTE 8.

(C) **TO EXISTING 2xP.T. WOOD BUCK.** OR WOOD STRUCTURE MIN. EDGE DISTANCE (E.D.)=1" & 3" MIN. SPACING.

- 1/4"Ø-14 TAPCON ANCHORS W/ 1 1/2" MIN. PENETRATION, 1" MIN. EDGE DISTANCE & 3" MIN. SPACING. AS MANUFACTURED BY ITW/BUILDEX, INC. (COMPONENT ⑫). SEE NOTE 8.

- 1/4"Ø KWIK-CON II W/ 1 1/2" MIN. EMBEDMENT, 1" MIN. EDGE DISTANCE & 3" MIN. SPACING, AS MANUFACTURED BY HILTI, INC. (COMPONENT ⑫A). SEE NOTE 8.

(D) **TO EXISTING MIN. 1/8" THICK ALUMINUM TUBE (6063-T5 ALLOY)** MIN. EDGE DISTANCE (E.D.) = 1/2" & 2" MIN. SPACING.

- 1/4"Ø-14 TEK SCREW, AS MANUFACTURED BY ITW/BUILDEX, INC. (COMPONENT ⑬). THREADS SHALL GO THRU THE TUBE THICKNESS.

(E) **TO EXISTING MIN. 1/8" THICK STEEL MEMBER (ASTM A-500, A-653 OR A-36)** MIN. EDGE DISTANCE (E.D.) = 1/2" & 2" MIN. SPACING.

- 1/4"Ø-14 TEK SCREW, AS MANUFACTURED BY ITW/BUILDEX, INC. (COMPONENT ⑬). THREADS SHALL GO THRU THE FULL TUBE THICKNESS.

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

11. ALL ALUMINUM EXTRUSIONS IN CONTACT WITH DISSIMILAR MATERIALS SHALL COMPLY WITH SECTION III-6 OF THE 2015 ALUMINUM DESIGN MANUAL.

12. (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.

13. SERIES VPF 8000 OUTSWING ALUMINUM CASEMENT WINDOW (TYPICAL OR HEAVY SYSTEMS) MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION AT PRODUCT IN ACCORDANCE WITH SECTION 1709.5 OF THE FLORIDA BUILDING CODE. ONE LABEL SHALL BE PLACED FOR EVERY UNIT.

FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

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WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

SERIES VPF 8000 OUTSWING ALUMINUM CASEMENT WINDOW-LMI (TYPICAL & HEAVY SYSTEMS)

ALUMINA DISTRIBUTION CENTER

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PHONE: (305) 444-1198

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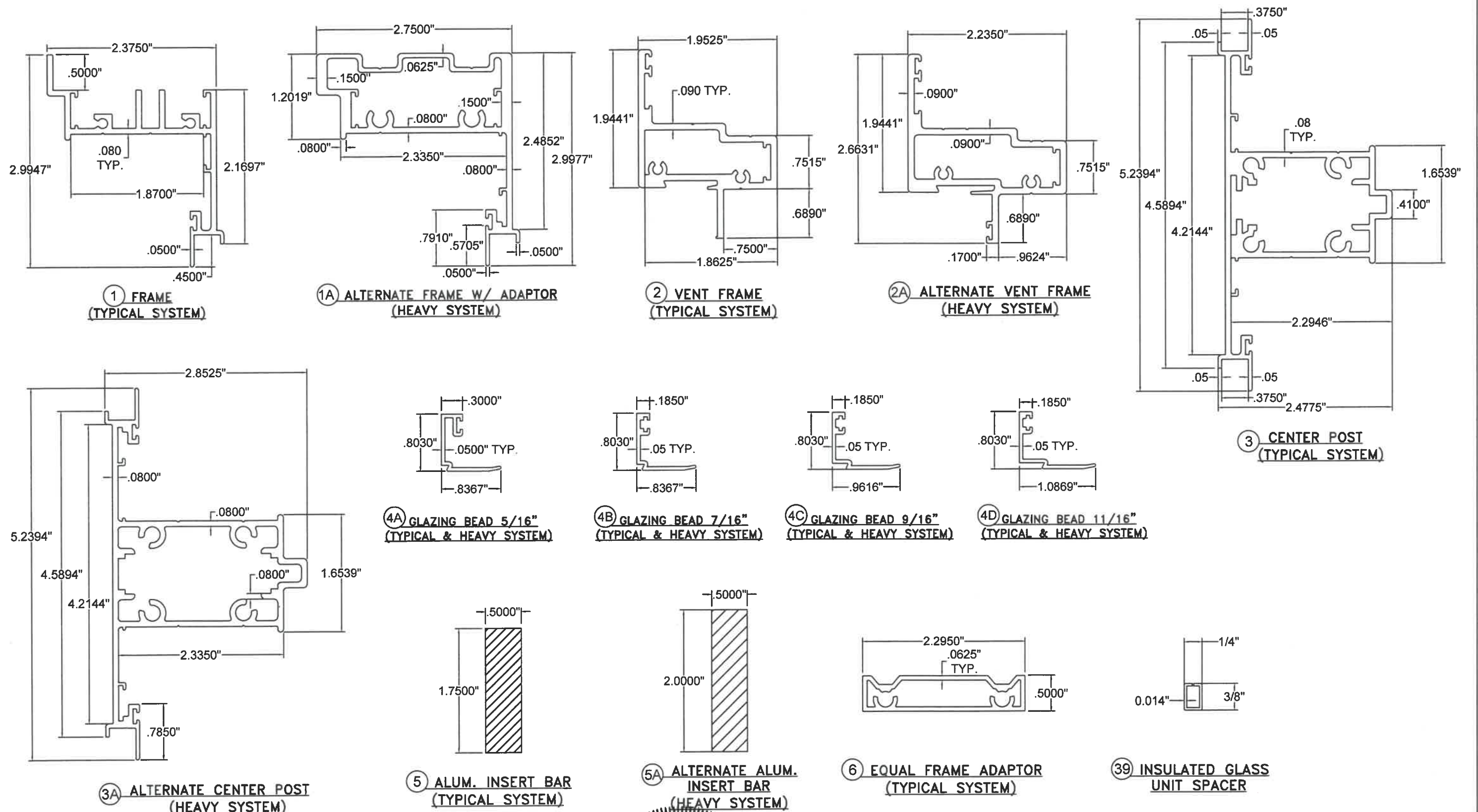
08/03/2020
DATE:

20-226

DRAWING No.

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2			4		

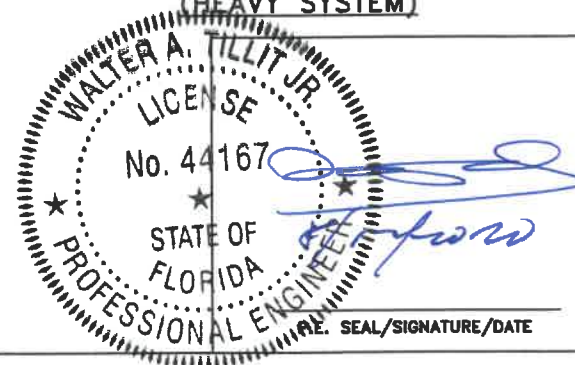
SHEET 1 OF 33



COMPONENTS

(TYPICAL & HEAVY SYSTEMS)*
 SCALE 3/4"=1"

* TYPICAL & HEAVY SYSTEMS SHALL NOT BE COMBINED (MIXED) BETWEEN EACH OTHER).



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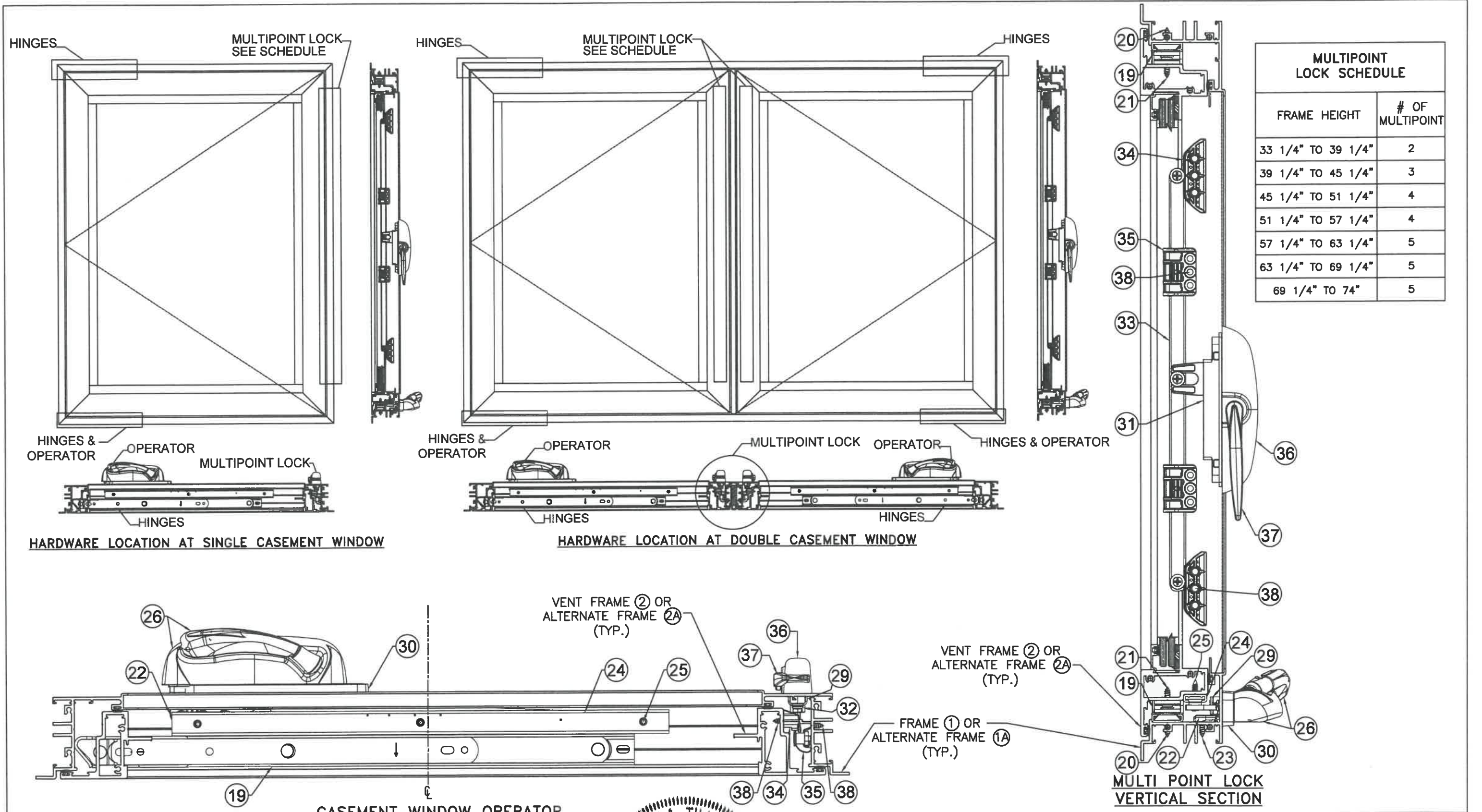
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 DRAWING No.

SHEET 2 OF 33

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-001	08/03/20	3		
2			4		



HARDWARE LOCATION AT SINGLE CASEMENT WINDOW

HARDWARE LOCATION AT DOUBLE CASEMENT WINDOW

CASEMENT WINDOW OPERATOR

MULTI POINT LOCK VERTICAL SECTION

HARDWARE DETAILS FOR
TYPICAL & HEAVY SYSTEMS:
REQ'D. AT EA. VENT (TYP.):
SEE SHEETS 2, 3, 6 & 7.
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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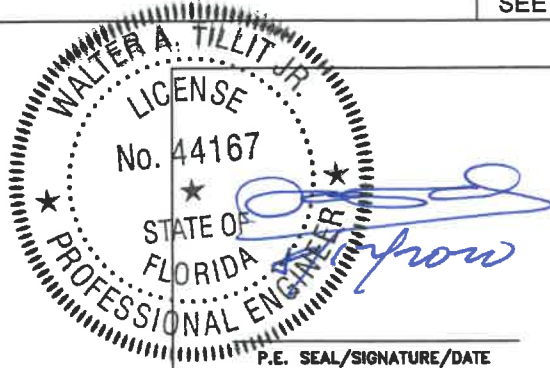
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SHEET 3 OF 33

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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2			4		

BILL OF MATERIALS: SINGLE & DOUBLE CASEMENT WINDOW (SEE SHEETS 6 & 7): TYPICAL & HEAVY SYSTEMS

COMPONENT #	DESCRIPTION	DIMENSIONS/REMARKS	MATERIAL
1	FRAME (TYPICAL SYSTEM)	SHEET 2	6063-T6 ALUMINUM
1A	ALTERNATE FRAME WITH ADAPTOR (HEAVY SYSTEM)	SHEET 2	6063-T6 ALUMINUM
2	VENT FRAME (TYPICAL SYSTEM)	SHEET 2	6063-T6 ALUMINUM
2A	ALTERNATE VENT FRAME (HEAVY SYSTEM)	SHEET 2	6063-T6 ALUMINUM
3	CENTER POST (TYPICAL SYSTEM)	SHEET 2	6063-T6 ALUMINUM
3A	ALTERNATE CENTER POST (HEAVY SYSTEM)	SHEET 2	6063-T6 ALUMINUM
4A	GLAZING BEAD 5/16" (TYPICAL & HEAVY SYSTEMS)	SHEET 2	6063-T6 ALUMINUM
4B	GLAZING BEAD 7/16" (TYPICAL & HEAVY SYSTEMS)	SHEET 2	6063-T6 ALUMINUM
4C	GLAZING BEAD 9/16" (TYPICAL & HEAVY SYSTEMS)	SHEET 2	6063-T6 ALUMINUM
4D	GLAZING BEAD 11/16" (TYPICAL & HEAVY SYSTEMS)	SHEET 2	6063-T6 ALUMINUM
5	ALUMINUM INSERT BAR (TYPICAL SYSTEM)	SHEET 2	6063-T6 ALUMINUM
5A	ALTERNATE ALUMINUM INSERT BAR (HEAVY SYSTEM)	SHEET 2	6063-T6 ALUMINUM
6	EQUAL FRAME ADAPTOR	SHEET 2	6063-T6 ALUMINUM
8	FRAME & VENT ASSEMBLY SCREWS	#8-32 x 3/4" P.H. M.S.	ST. STEEL
9	CENTER POST ASSEMBLY SCREWS	#14 x 2-3/4" H.H. TEK SCREWS	STEEL
12	1/4"Ø TAPCON (ITW /BUILDEX)	1/4" Ø (SEE NOTE 9/1)	STEEL
12A	1/4"Ø-14 KWIK-CON II (HILTI)	1/4" Ø (SEE NOTE 9/1)	STEEL
13	1/4"Ø-14 TEK SCREW (ITW /BUILDEX)	1/4" Ø (SEE NOTE 9/1)	STEEL
14	CORNER LOCK, 0.050" THK. x 1.7430" x 1.7430" x 0.473"	SULLIVAN ASSOCIATES	ST. STEEL
15	GLAZING BULB	0.250"x0.345" (ULTRAFAB)	VINYL
16	STRUCTURAL SILICONE DOW CORNING 995	ALL AROUND GLASS	SILICONE
17	BUMPER SPHEAR	-	SILICONE
18	NON STRUCTURAL SILICONE DOW CORNING CONTRACTORS, CONCRETE SEALANT (CCS)	AS SHOWN	SILICONE
19	4 BAR HINGE HEAVY DUTY	INTERLOCK	304 S.S.
20	HINGE MOUNTING SCREWS AT FRAME	#10 x 5/8" PH SMS. SEE SHEET 3	ST. STEEL
21	HINGE MOUNTING SCREWS AT VENT	#10 x 5/8" PH SMS. SEE SHEET 3	ST. STEEL
22	SINGLE ARM OPERATOR LEFT HANDING FOR CASEMENT	SEE SHEET 3	ST. STEEL
23	SINGLE ARM OPERATOR LEFT HANDING SCREWS	#10-24 X 1/2" F.H. M.S.	ST. STEEL
24	SINGLE ARM OPERATOR TRACK	SEE SHEET 3	-
25	SINGLE ARM OPERATOR TRACK SCREWS & SASH BRACKET MOUNTING SCREW & AWNING OPERATOR NARROW-STAINLESS	#8-32 X 5/8" F.H. SCREWS	ST. STEEL
26	OPERATOR COVER AND HANDLE	SEE SHEET 3	-
29	RETAINER CLIP	SEE SHEET 3	ST. STEEL
30	CASEMENT & AWNING FACE SPACER	SEE SHEET 3	-
31	MULTI-POINT LOCK MECHANISM	SEE SHEET 3	ST. STEEL
32	MULTI-POINT LOCK MECHANISM MOUNTING SCREWS	#8-32 X 3/4" F.H. MS	ST. STEEL
33	LOCKING BARS	SEE SHEET 3	ST. STEEL
34	CASEMENT STRIKE	SEE SHEET 3	-
35	CASEMENT GUIDE	SEE SHEET 3	-
36	SNAP ON COVER	SEE SHEET 3	-
37	SNAP ON HANDLE	SEE SHEET 3	-
38	LOCK MOUNTING SCREW AT VENT AND FRAME	#8-32 X 3/4" F.H. MS	ST. STEEL
39	INSULATED GLASS UNIT SPACER	SEE SHEET 2	3105-H24 ALUMINUM



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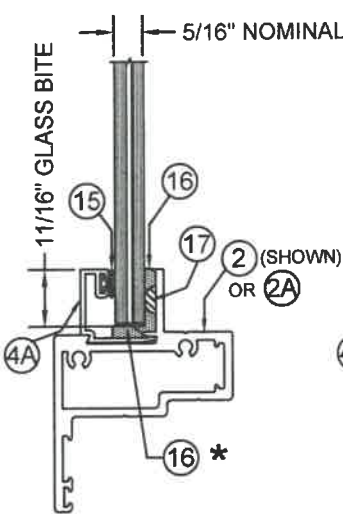
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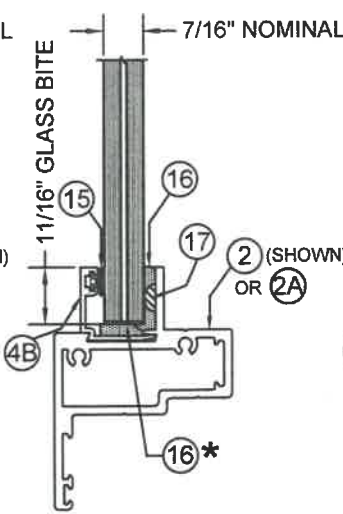
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2			4		

GLASS SCHEDULE		
COMPONENT #	DESCRIPTION	MATERIAL
(A)	5/16" NOMINAL LAMINATED GLASS W/ 1/8" H.S. GLASS +0.090" TROSIFOL PVB INTERLAYER BY KURARAY AMERICA, INC. + 1/8" H.S. GLASS.	GLASS
(B)	7/16" NOMINAL LAMINATED GLASS W/ 3/16" H.S. GLASS +0.090" TROSIFOL PVB INTERLAYER BY KURARAY AMERICA, INC. + 3/16" H.S. GLASS.	GLASS
(B1)	7/16" NOMINAL LAMINATED GLASS W/ 3/16" H.S. GLASS +0.090" SENTRYGLAS® INTERLAYER BY KURARAY AMERICA, INC. + 3/16" H.S. GLASS.	GLASS
(C)	9/16" NOMINAL LAMINATED GLASS W/ 1/4" H.S. GLASS +0.090" TROSIFOL PVB INTERLAYER BY KURARAY AMERICA, INC. + 1/4" H.S. GLASS.	GLASS
(C1)	9/16" NOMINAL LAMINATED GLASS W/ 1/4" H.S. GLASS +0.090" SENTRYGLAS® INTERLAYER BY KURARAY AMERICA, INC. + 1/4" H.S. GLASS.	GLASS
(D)	11/16" NOMINAL INSULATED-LAMINATED GLASS W/ 1/8" TEMPERED GLASS OUT BOARD -1/4 ARGON SPACER + 1/8 H.S. GLASS +0.090" TROSIFOL PVB INTERLAYER BY KURARAY AMERICA, INC. + 1/8" H.S. GLASS.	GLASS

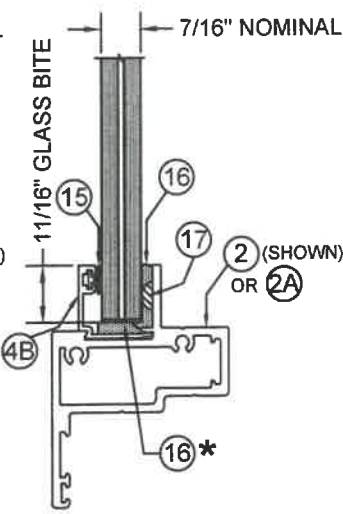
TYPICAL & HEAVY SYSTEMS					
MAX. A.S.D. PRESSURE RATING FOR A GIVEN GLASS TYPE AND CORRESPONDING MAX. VENT WIDTHS AND VENT HEIGHTS					
GLASS TYPE	MAX. A.S.D. DESIGN PRESSURE RATING	MAX. VENT WIDTH "a"	MAX. VENT HEIGHT "b"	MAX. D.L.O. WIDTH (a)	MAX. D.L.O. HEIGHT (b)
(A), (B), (C), (D)	+72.0 , -72.0 psf	41"	72 1/2"	35 5/8"	67 3/16"
(B1), (C1)	+105.0 , -105.0 psf.	41"	53 3/8"	35 5/8"	48 1/16"
(B1), (C1)	+110.0 , -110.0 psf.	39"	56 3/8"	33 5/8"	51 1/16"
(B1), (C1)	+120.0 , -120.0 psf.	36"	61 3/8"	30 5/8"	56 1/16"



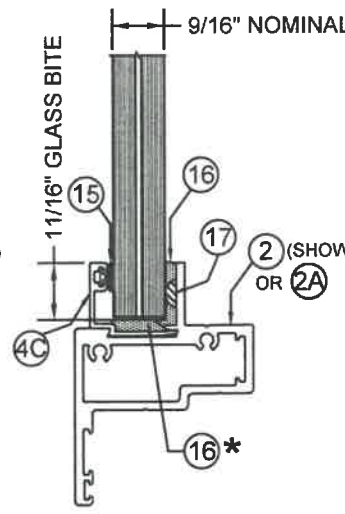
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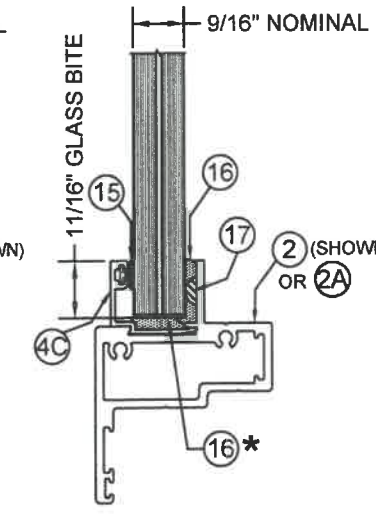
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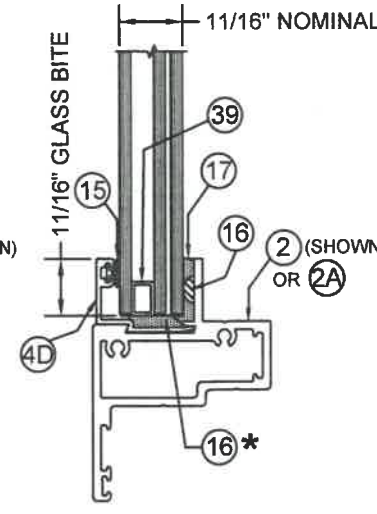
GLASS TYPE (B1)



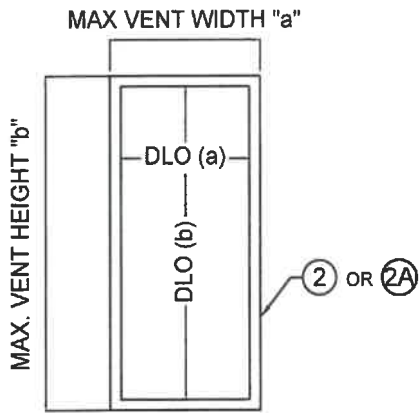
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GLASS TYPE (C1)



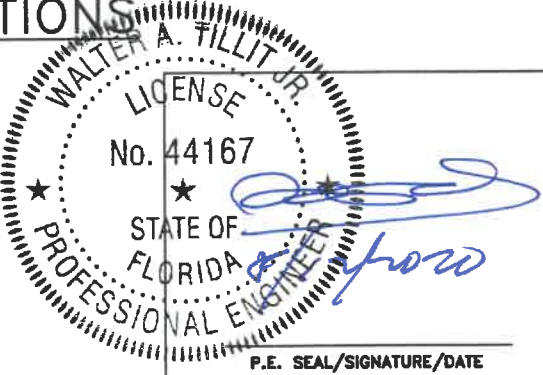
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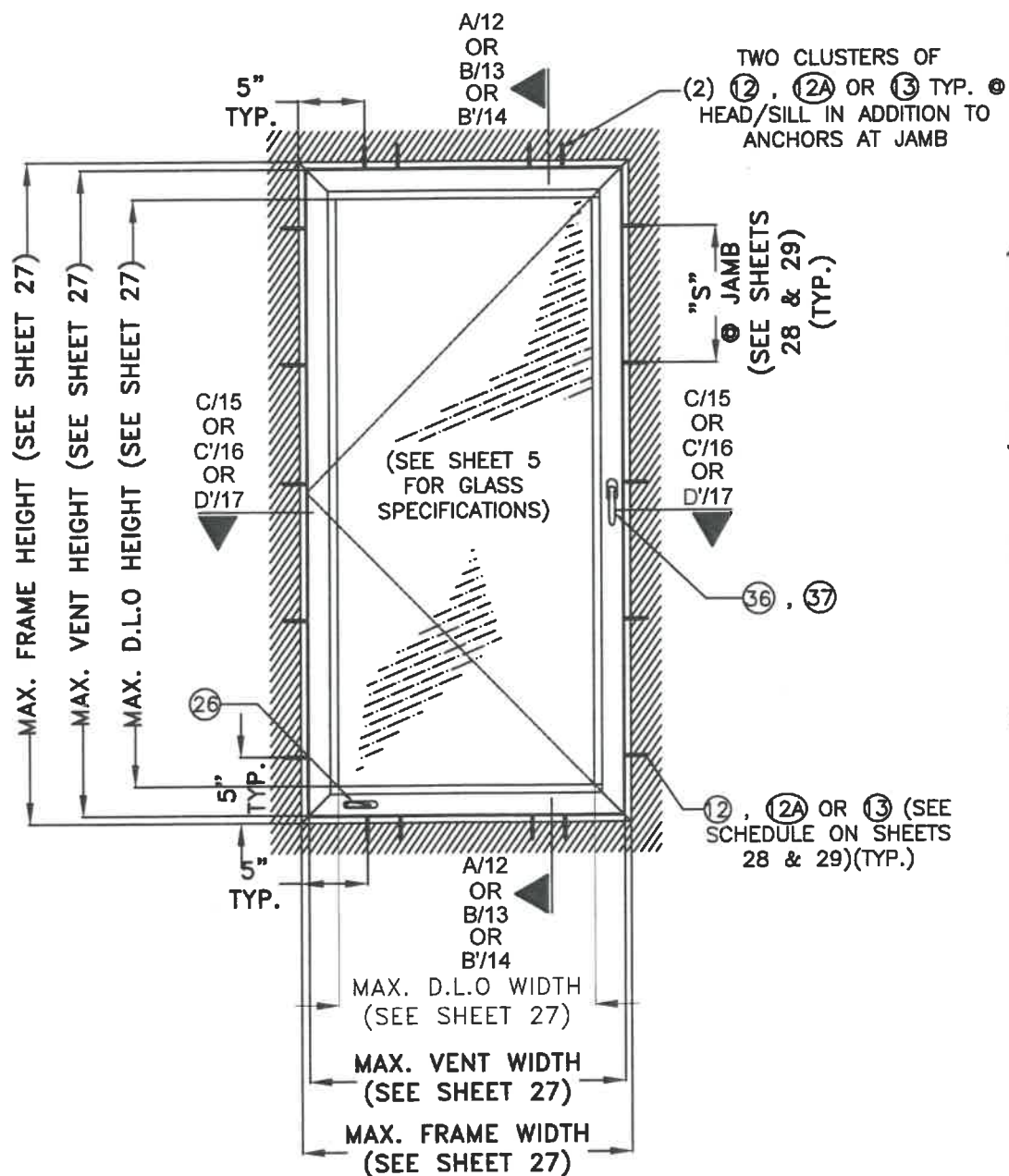
VENT ELEVATION

GLASS CONFIGURATIONS

*USE EPDM SETTING BLOCKS (GLASS THICKNESS X 1/16" THICK) AT 1/4 POINTS AT ALL GLASS. EACH LITE OF GLASS MORE THAN 3 FEET IN WIDTH SHALL HAVE TWO APPROVED SETTING BLOCKS, PER FBC.

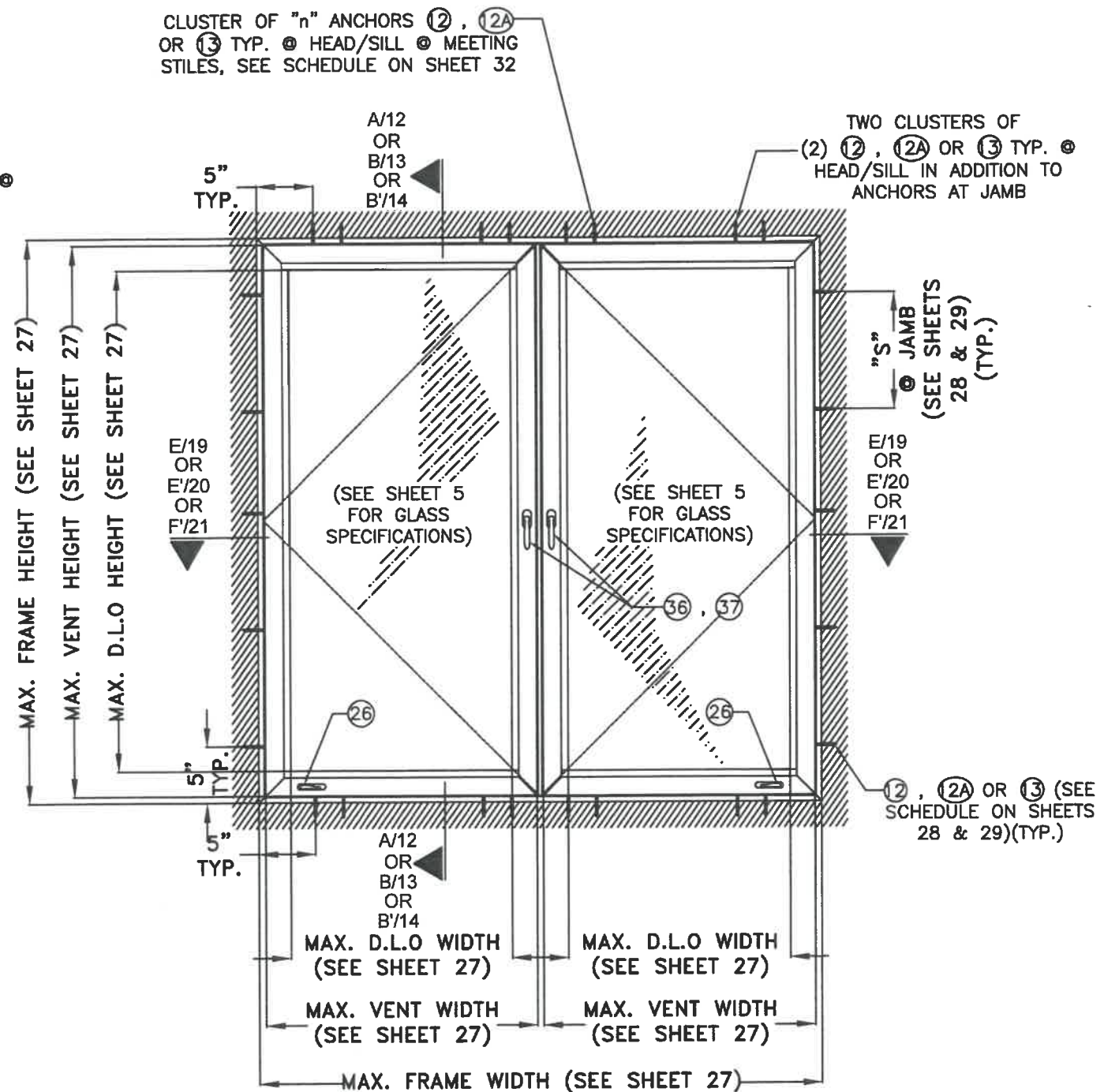


FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)					
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REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-001	08/03/20	3		
2			4		
					F.P. DRAWN BY: 08/03/2020 DATE: 20-226 DRAWING No. SHEET 5 OF 33

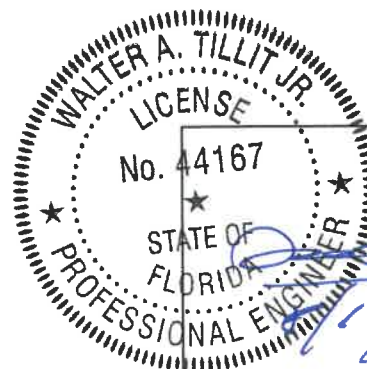


**TYPICAL EXTERIOR ELEVATION
SINGLE VENT (TYPICAL OR HEAVY SYSTEMS)
CASEMENT WINDOW W/ ATTACHED JAMBS***
SCALE: 3/4"=1'-0"

* NOTE: JAMBS MAY ALSO BE ATTACHED ONLY ON ONE SIDE & FREE STANDING ON THE OTHER SIDE (W/ ADAPTOR # 6 FOR TYPICAL SYSTEM, OR 1A FRAME FOR HEAVY SYSTEM) AS PER DETAILS ON SHEETS 6, 7.



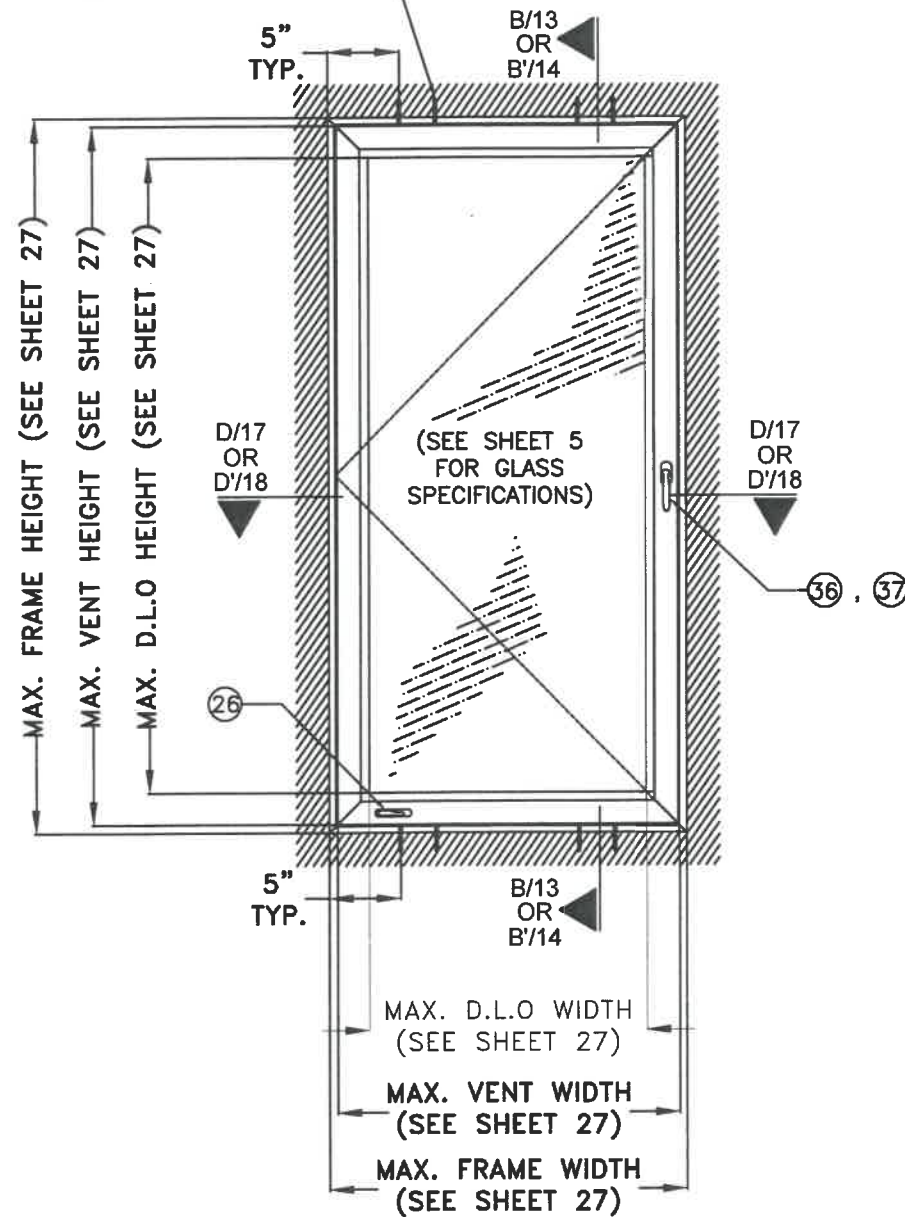
**TYPICAL EXTERIOR ELEVATION
DOUBLE VENT (TYPICAL OR HEAVY SYSTEMS)
CASEMENT WINDOW W/ ATTACHED JAMBS***
SCALE: 3/4"=1'-0"



P.E. SEAL/SIGNATURE/DATE

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©2020 TILTECO, INC.			SERIES VPF 8000 OUTSWING ALUMINUM CASEMENT WINDOW-LMI (TYPICAL & HEAVY SYSTEMS)		
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TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 . Fax : (305)871-1531 CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167			15002 N.W. 107 AVENUE SUITE # 1 HIALEAH GARDENS, FL 33018 PHONE: (305) 444-1198		
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-001	06/03/20	3		
2			4		
					F.P. DRAWN BY: 08/03/2020 DATE: 20-226 DRAWING No. SHEET 6 OF 33

TWO CLUSTERS OF "n" ANCHORS ⑫, ⑫A OR ⑬ TYP. ⑥ HEAD/SILL, SEE SCHEDULE ON SHEET 30

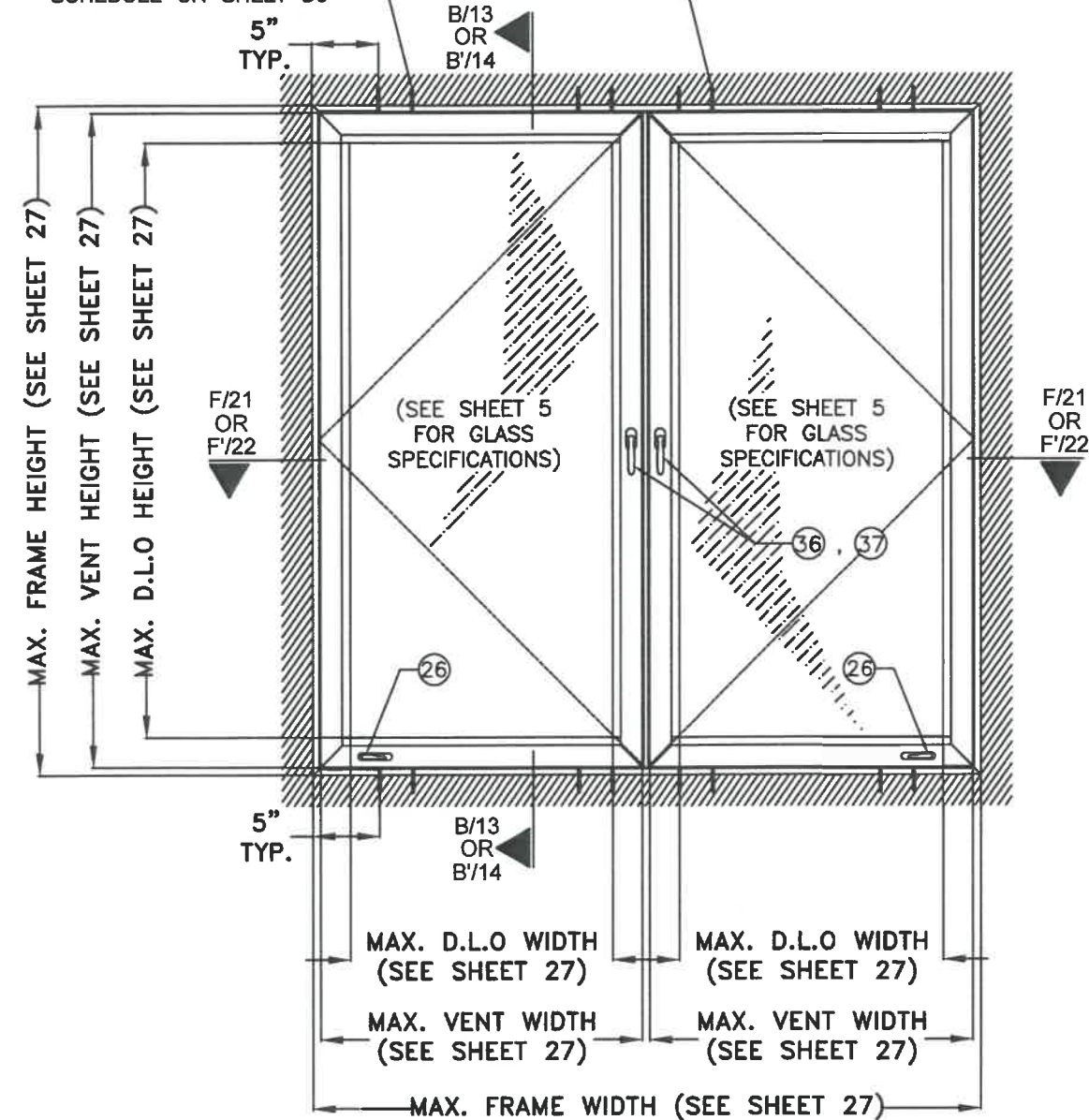


**TYPICAL EXTERIOR ELEVATION
SINGLE VENT (TYPICAL OR HEAVY SYSTEMS)
CASEMENT WINDOW W/ NOT ATTACHED JAMBS***
SCALE: 3/4"=1'-0"

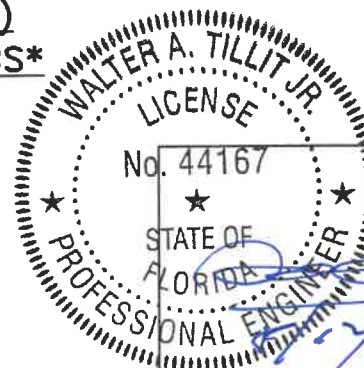
* NOTE: JAMBS MAY ALSO BE ATTACHED ONLY ON ONE SIDE & FREE STANDING ON THE OTHER SIDE (W/ ADAPTOR # ⑥ FOR TYPICAL SYSTEM, OR ①A FRAME FOR HEAVY SYSTEM) AS PER DETAILS ON SHEETS 6, 7.

CLUSTER OF "n" ANCHORS ⑫, ⑫A OR ⑬ TYP. ⑥ HEAD/SILL ⑥ MEETING STILES, SEE SCHEDULE ON SHEET 32

TWO CLUSTERS OF "n" ANCHORS ⑫, ⑫A OR ⑬ TYP. ⑥ HEAD/SILL, SEE SCHEDULE ON SHEET 30



**TYPICAL EXTERIOR ELEVATION
DOUBLE VENT (TYPICAL OR HEAVY SYSTEMS)
CASEMENT WINDOW W/ NOT ATTACHED JAMBS***
SCALE: 3/4"=1'-0"



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

SERIES VPF 8000 OUTSWING ALUMINUM CASEMENT WINDOW-LMI (TYPICAL & HEAVY SYSTEMS)

ALUMINA DISTRIBUTION CENTER
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HIALEAH GARDENS, FL 33018
PHONE: (305) 444-1198

F.P.
DRAWN BY:

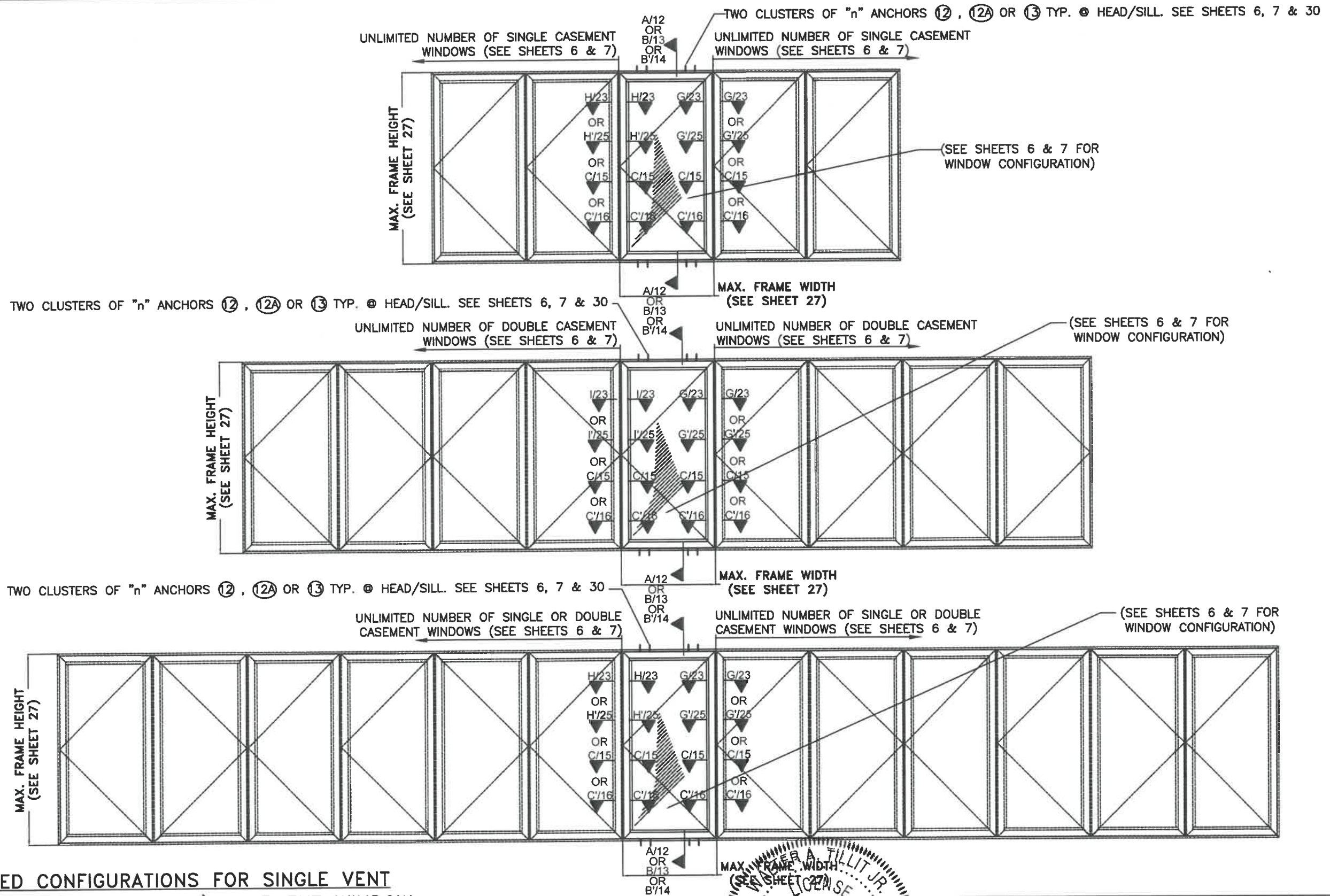
08/03/2020
DATE:

20-226

DRAWING No.

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-001	08/03/20	3		
2			4		

SHEET 7 OF 33



QUALIFIED CONFIGURATIONS FOR SINGLE VENT
(TYPICAL OR HEAVY SYSTEMS) CASEMENT WINDOW
W/ ACCOMPANYING SINGLE, DOUBLE OR
COMBINATION OF SINGLE AND DOUBLE VENT
(TYPICAL OR HEAVY SYSTEMS) CASEMENT WINDOWS
TYPICAL EXTERIOR ELEVATIONS

SCALE 3/8"=1'-0"

No. 44167 STATE OF FLORIDA PROFESSIONAL ENGINEER WALTER A. TILLIT JR. P.E. SEAL/SIGNATURE/DATE		FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE) 2020 TILTECO, INC. TILTECO INC. TILTING TESTING & ENGINEERING COMPANY 6800 N.W. 38th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone: (305)871-1530 Fax: (305)871-1531 CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167		SERIES VPF 8000 OUTSWING ALUMINUM CASEMENT WINDOW-LMI (TYPICAL & HEAVY SYSTEMS) ALUMINA DISTRIBUTION CENTER 15002 N.W. 107 AVENUE SUITE # 1 HIALEAH GARDENS, FL 33018 PHONE: (305) 444-1198		F.P. DRAWN BY: 08/03/2020 DATE: 20-226 DRAWING No. SHEET 8 OF 33
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	
1	OLD 20-001	08/03/20	3			
2			4			

CLUSTER OF "n" ANCHORS ⑫ , ⑫A OR ⑬ TYP. • HEAD/SILL • MEETING STILES. SEE SHEET 32

UNLIMITED NUMBER OF SINGLE CASEMENT
WINDOWS (SEE SHEETS 6 & 7)

TWO CLUSTERS OF "n" ANCHORS ⑫ , ⑫A OR ⑬ TYP. • HEAD/SILL. SEE SHEETS 6, 7 & 30

UNLIMITED NUMBER OF SINGLE CASEMENT
WINDOWS (SEE SHEETS 6 & 7)

MAX. FRAME HEIGHT
(SEE SHEET 27)

MAX. FRAME WIDTH
(SEE SHEET 27)

(SEE SHEETS 6 & 7 FOR
WINDOW CONFIGURATION)

CLUSTER OF "n" ANCHORS ⑫ , ⑫A OR ⑬ TYP. • HEAD/SILL • MEETING STILES. SEE SHEET 32

UNLIMITED NUMBER OF DOUBLE CASEMENT
WINDOWS (SEE SHEETS 6 & 7)

TWO CLUSTERS OF "n" ANCHORS ⑫ , ⑫A OR ⑬ TYP. • HEAD/SILL. SEE SHEETS 6, 7 & 30

UNLIMITED NUMBER OF DOUBLE CASEMENT
WINDOWS (SEE SHEETS 6 & 7)

(SEE SHEETS 6 & 7 FOR
WINDOW CONFIGURATION)

MAX. FRAME HEIGHT
(SEE SHEET 27)

MAX. FRAME WIDTH
(SEE SHEET 27)

CLUSTER OF "n" ANCHORS ⑫ , ⑫A OR ⑬ TYP. • HEAD/SILL • MEETING STILES. SEE SHEET 32

UNLIMITED NUMBER OF SINGLE OR DOUBLE
CASEMENT WINDOWS (SEE SHEETS 6 & 7)

TWO CLUSTERS OF "n" ANCHORS ⑫ , ⑫A OR ⑬ TYP. • HEAD/SILL. SEE SHEETS 6, 7 & 30

UNLIMITED NUMBER OF SINGLE OR DOUBLE
CASEMENT WINDOWS (SEE SHEETS 6 & 7)

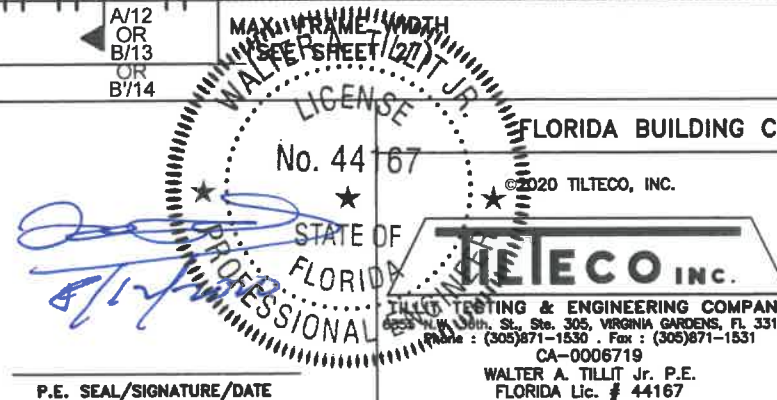
(SEE SHEETS 6 & 7 FOR
WINDOW CONFIGURATION)

MAX. FRAME HEIGHT
(SEE SHEET 27)

MAX. FRAME WIDTH
(SEE SHEET 27)

QUALIFIED CONFIGURATIONS FOR DOUBLE VENT (TYPICAL OR
HEAVY SYSTEMS) CASEMENT WINDOW W/ ACCOMPANYING SINGLE,
DOUBLE VENT OR COMBINATION OF SINGLE AND DOUBLE VENT
(TYPICAL OR HEAVY SYSTEMS) CASEMENT WINDOWS
TYPICAL EXTERIOR ELEVATIONS

SCALE 3/8"=1'-0"



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

SERIES VPF 8000 OUTSWING ALUMINUM CASEMENT
WINDOW-LMI (TYPICAL & HEAVY SYSTEMS)

F.P.
DRAWN BY:

ALUMINA DISTRIBUTION CENTER

08/03/2020
DATE:

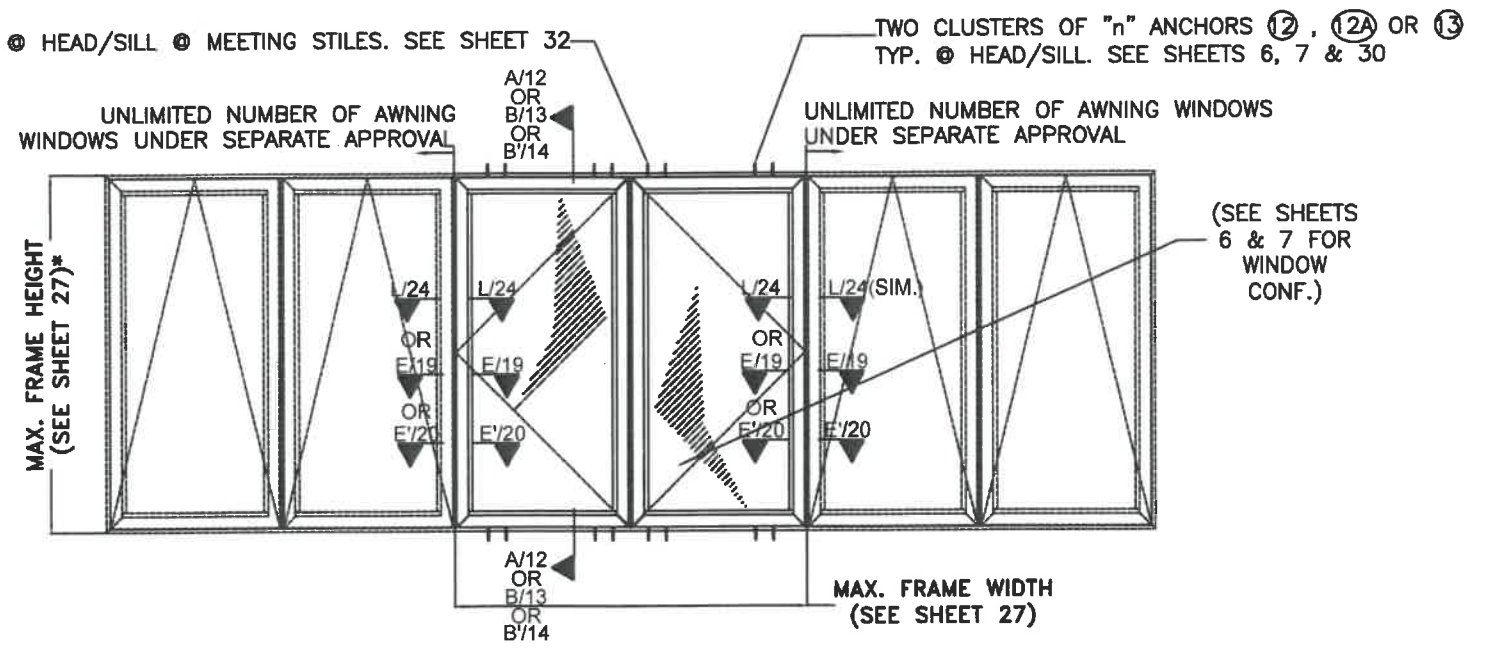
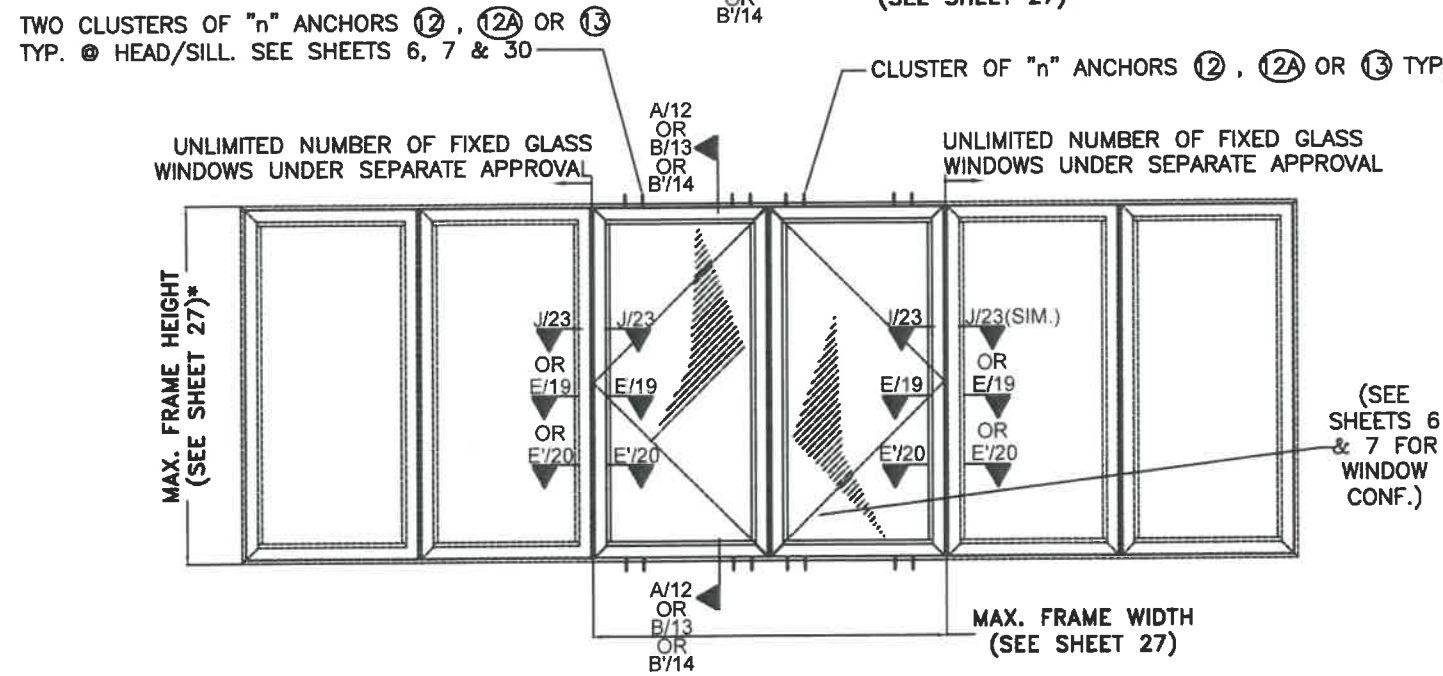
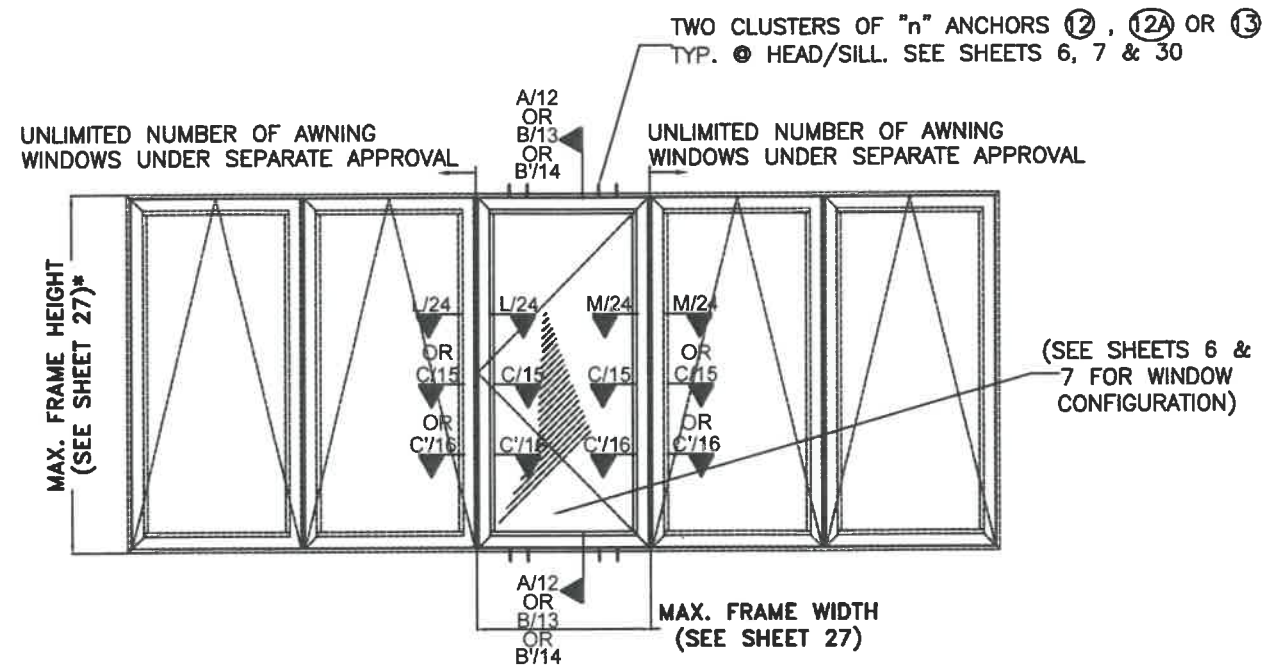
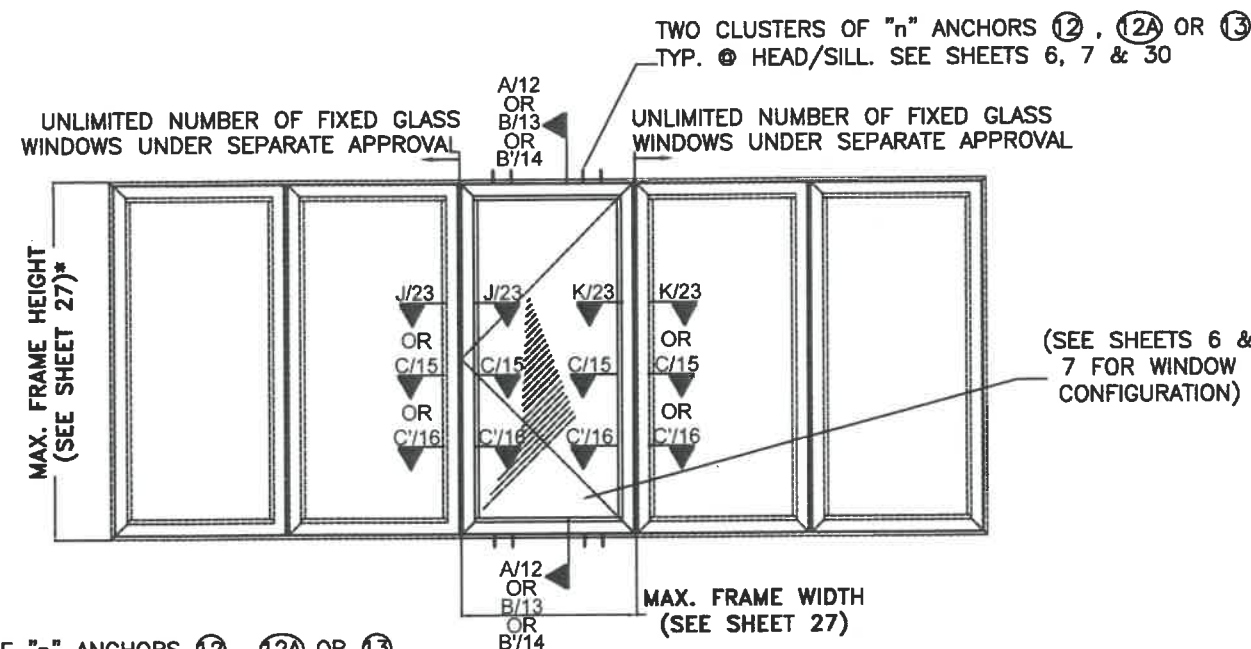
15002 N.W. 107 AVENUE SUITE # 1
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20-226

DRAWING No.

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-001	08/03/20	3		
2			4		

SHEET 9 OF 33



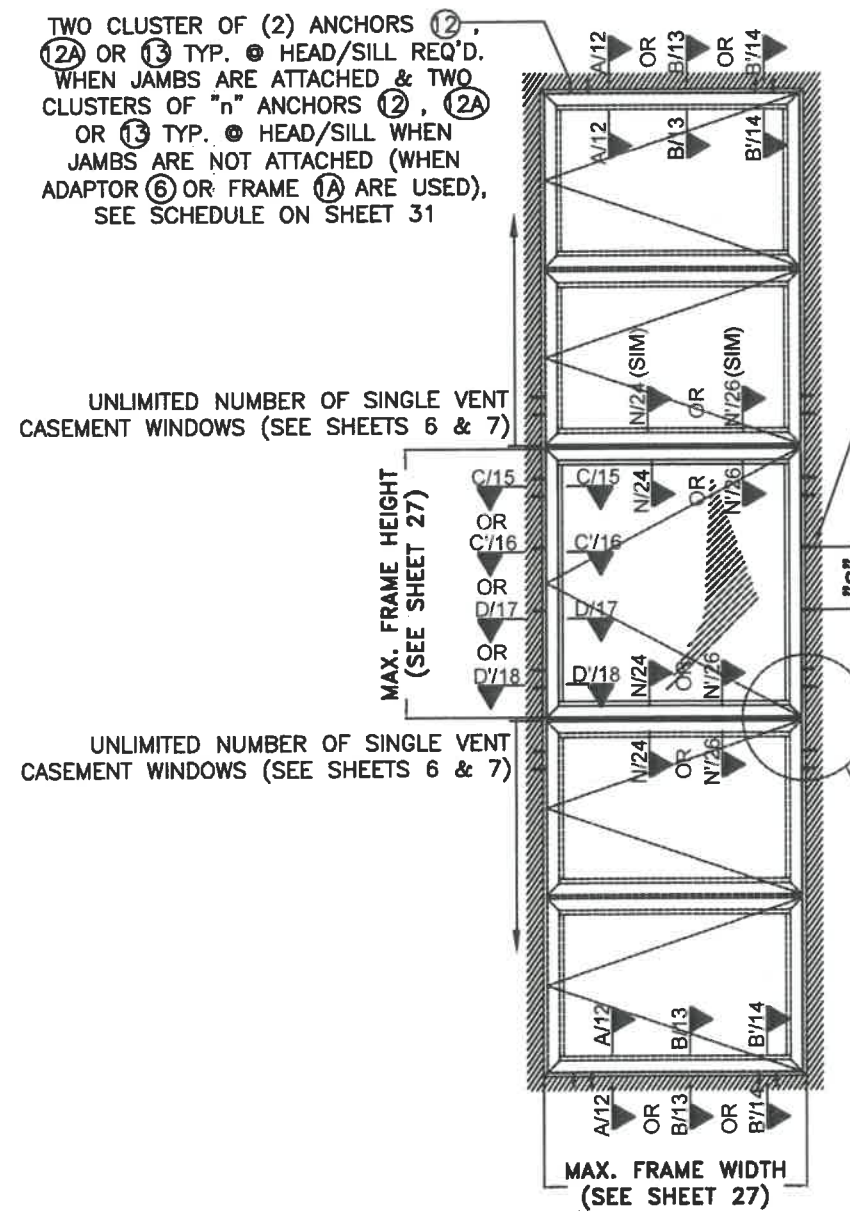
**QUALIFIED CONFIGURATIONS FOR SINGLE/DOUBLE
(TYPICAL SYSTEM ONLY) CASEMENT WINDOW W/
ACCOMPANYING FIXED WINDOWS
(UNDER SEPARATE APPROVAL)
TYPICAL EXTERIOR ELEVATION
SCALE 3/8"=1'-0"**

**QUALIFIED CONFIGURATIONS FOR SINGLE/DOUBLE
(TYPICAL SYSTEM ONLY) CASEMENT WINDOW W/
ACCOMPANYING AWNING WINDOWS
(UNDER SEPARATE APPROVAL)
TYPICAL EXTERIOR ELEVATION
SCALE 3/8"=1'-0"**

* MAX. FRAME HEIGHT & FRAME WIDTH OF ACCOMPANYING FIXED OR AWNING WINDOWS SHALL BE AS PER SEPARATE APPROVAL AND THE SHORTEST FRAME HEIGHT OF EITHER WINDOW TYPE SHALL BE USED.

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			15002 N.W. 107 AVENUE SUITE # 1		
6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166			HIALEAH GARDENS, FL 33018		
Phone : (305)871-1530 . Fax : (305)871-1531			PHONE: (305) 444-1198		
CA-0006719					
WALTER A. TILLIT Jr. P.E.					
FLORIDA Lic. # 44167					
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-001	08/03/20	3		
2			4		
					F.P. DRAWN BY:
					08/03/2020
					DATE:
					20-226
					DRAWING No.
					SHEET 10 OF 33



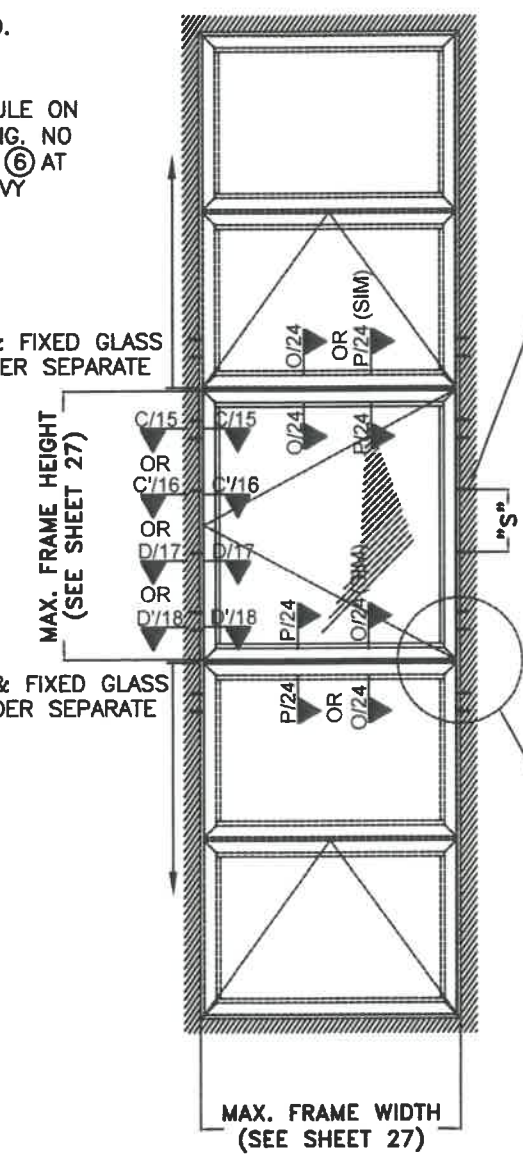
QUALIFIED CONFIGURATIONS FOR SINGLE VENT (TYPICAL OR HEAVY SYSTEMS) CASEMENT WINDOW W/ COMBINATION OF VERTICAL ACCOMPANYING SINGLE VENT (TYPICAL OR HEAVY SYSTEMS) CASEMENTS WINDOWS
TYPICAL EXTERIOR ELEVATION
 SCALE 3/8"=1'-0"

ANCHORS (12) , (12A) OR (13) TYP. REQ'D. WHEN ADAPTOR (COMP. 6) AT TYPICAL SYSTEM) IS NOT USED AT JAMBS, AS DETAILED ON SHEET C/15 SEE SCHEDULE ON SHEETS 28 & 29 FOR ANCHOR SPACING. NO ANCHOR IS REQ'D. IF ADAPTER (COMP. 6) AT TYPICAL SYSTEM OR FRAME (1A) AT HEAVY SYSTEM) ARE USED AT JAMBS, AS PER DETAIL ON SHEET D/17 & D/18

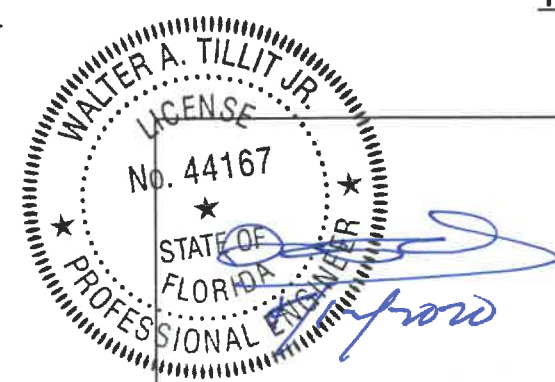
UNLIMITED NUMBER OF AWNING & FIXED GLASS WINDOWS IN ANY SEQUENCE UNDER SEPARATE APPROVAL

UNLIMITED NUMBER OF AWNING & FIXED GLASS WINDOWS IN ANY SEQUENCE UNDER SEPARATE APPROVAL

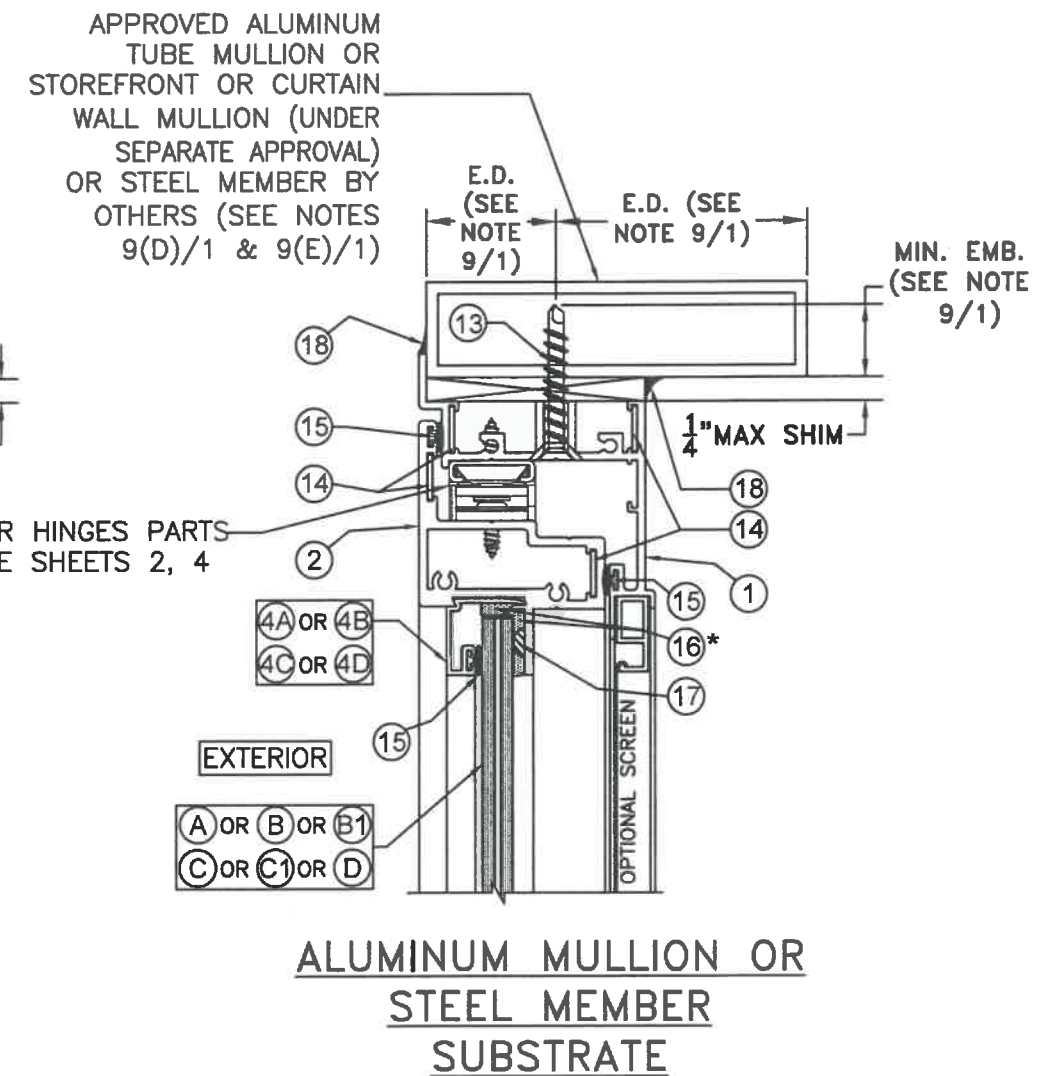
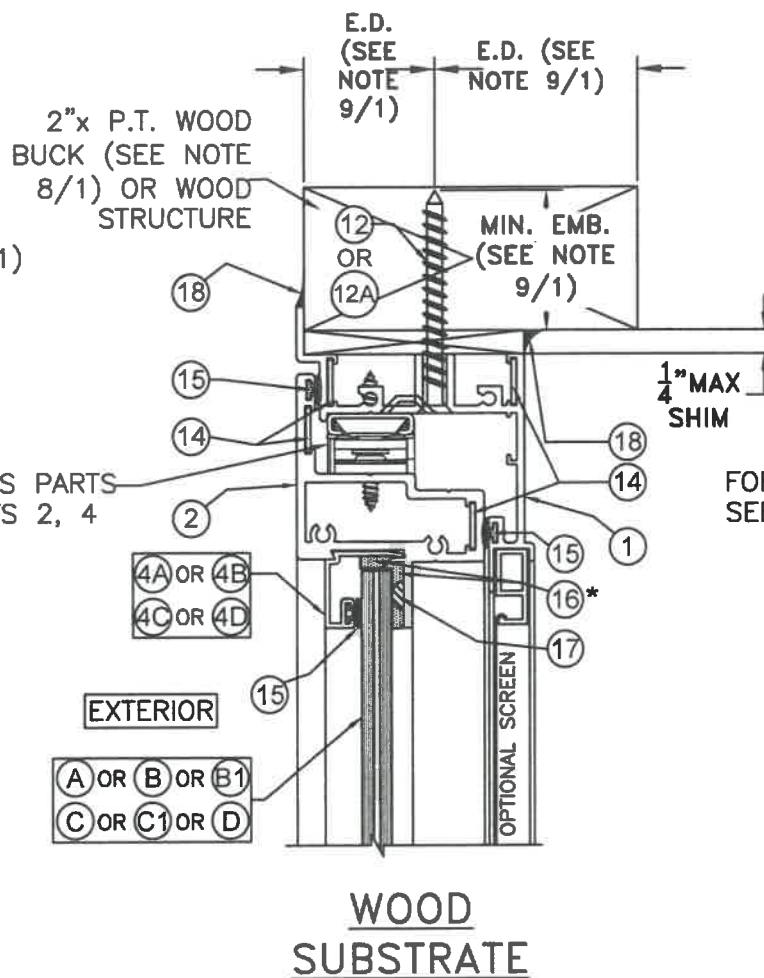
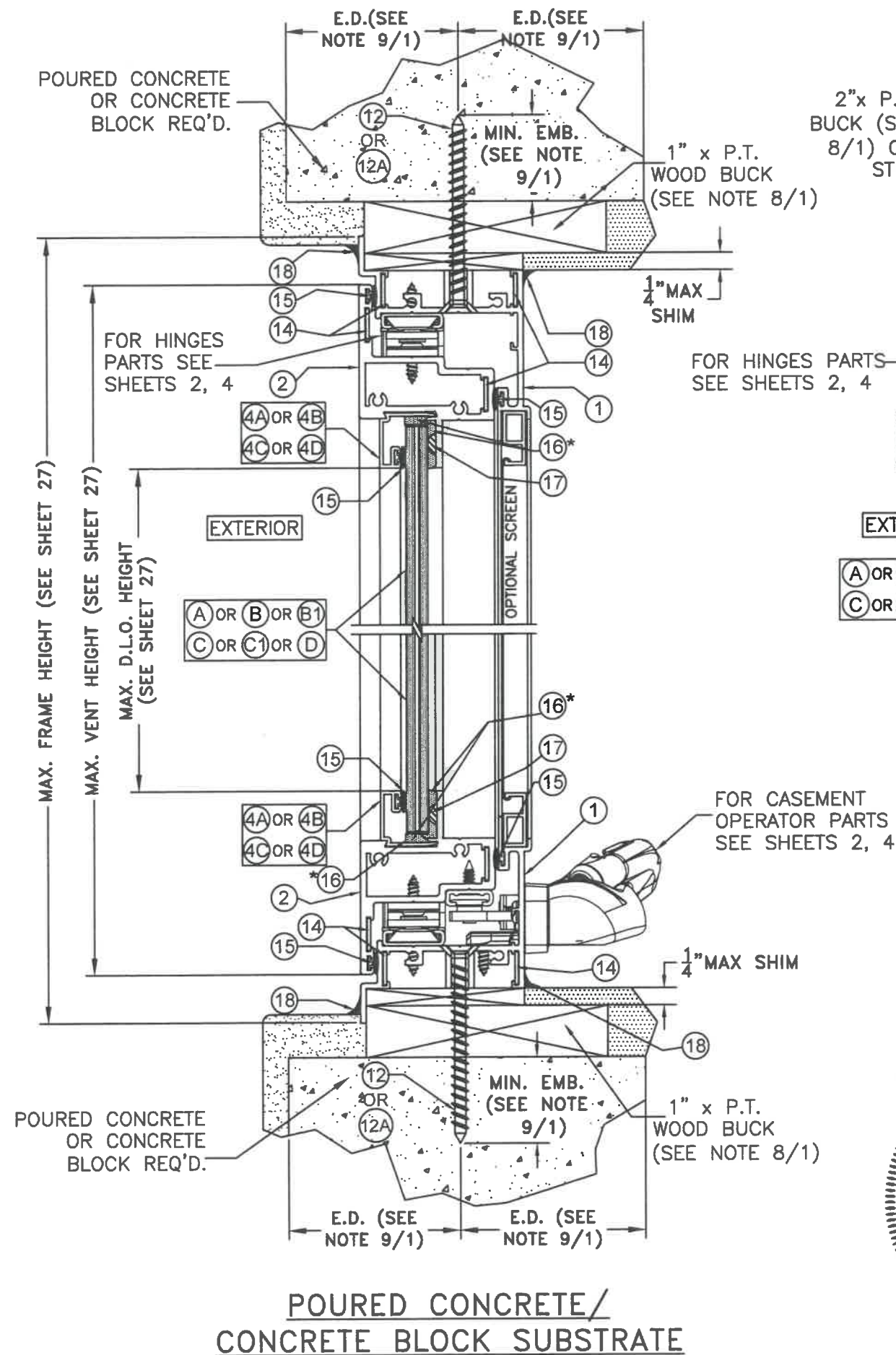
CLUSTER OF "n" ANCHORS (12) , (12A) OR (13) TYP. @ EA. END OF HORIZONTAL CENTER POST (3) TYP. EA. JAMB, SEE SCHEDULE ON SHEET 33



QUALIFIED CONFIGURATIONS FOR SINGLE VENT (TYPICAL SYSTEM ONLY) CASEMENT WINDOW W/ COMBINATION OF VERTICAL ACCOMPANYING FIXED & AWNING WINDOWS (UNDER SEPARATE APPROVAL)
TYPICAL EXTERIOR ELEVATION
 SCALE 3/8"=1'-0"



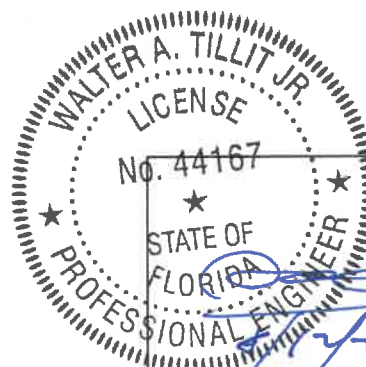
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			ALUMINA DISTRIBUTION CENTER		08/03/2020 DATE:
TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 38th St., Ste. 305, VIRGINIA GARDENS, FL 33186 Phone : (305)671-1530 . Fax : (305)671-1531 CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167			15002 N.W. 107 AVENUE SUITE # 1 HIALEAH GARDENS, FL 33018 PHONE: (305) 444-1198		20-226 DRAWING No.
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-001	08/03/20	3		
2			4		
					SHEET 11 OF 33



SECTION A-A (TYPICAL SYSTEM)

SCALE 1/2"=1"

* USE EPDM SETTING BLOCKS (GLASS THICKNESS X 1/16" THICK) AT 1/4 POINTS AT ALL GLASS. EACH LITE OF GLASS MORE THAN 3 FEET IN WIDTH SHALL HAVE TWO APPROVED SETTING BLOCKS, PER FBC.



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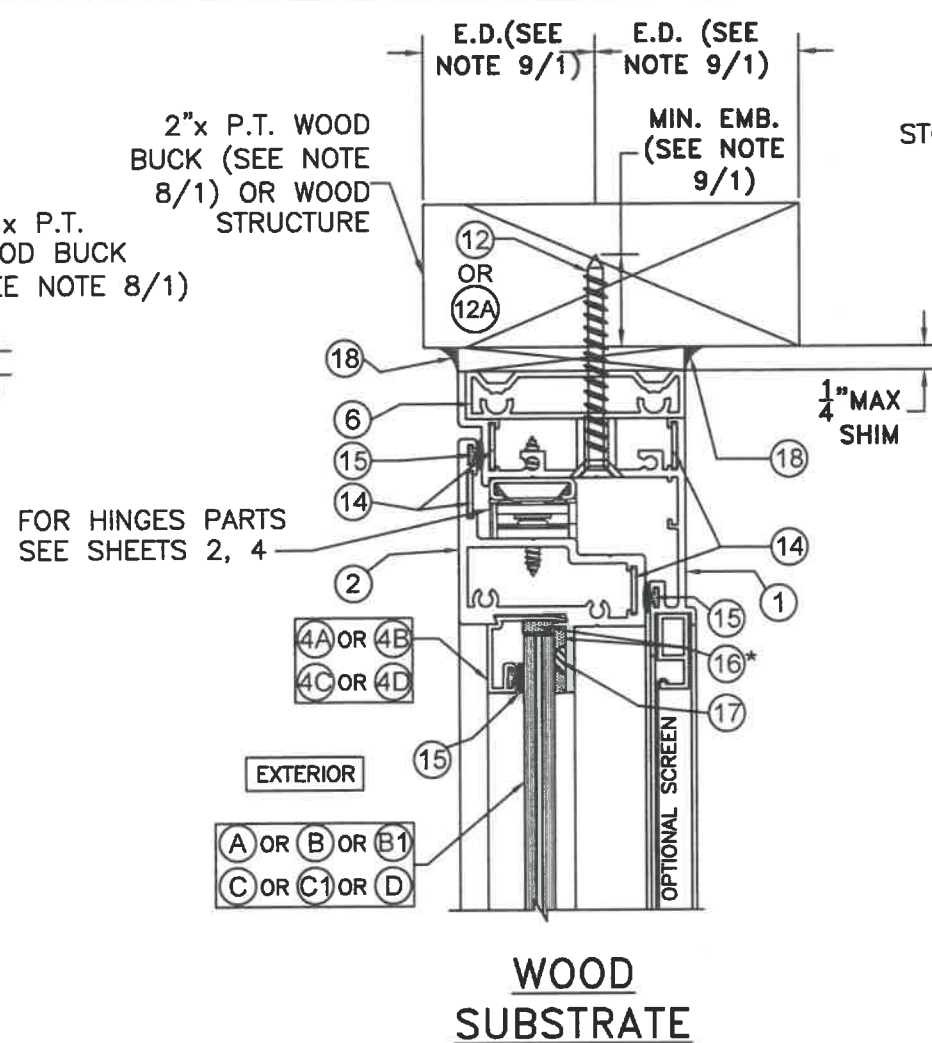
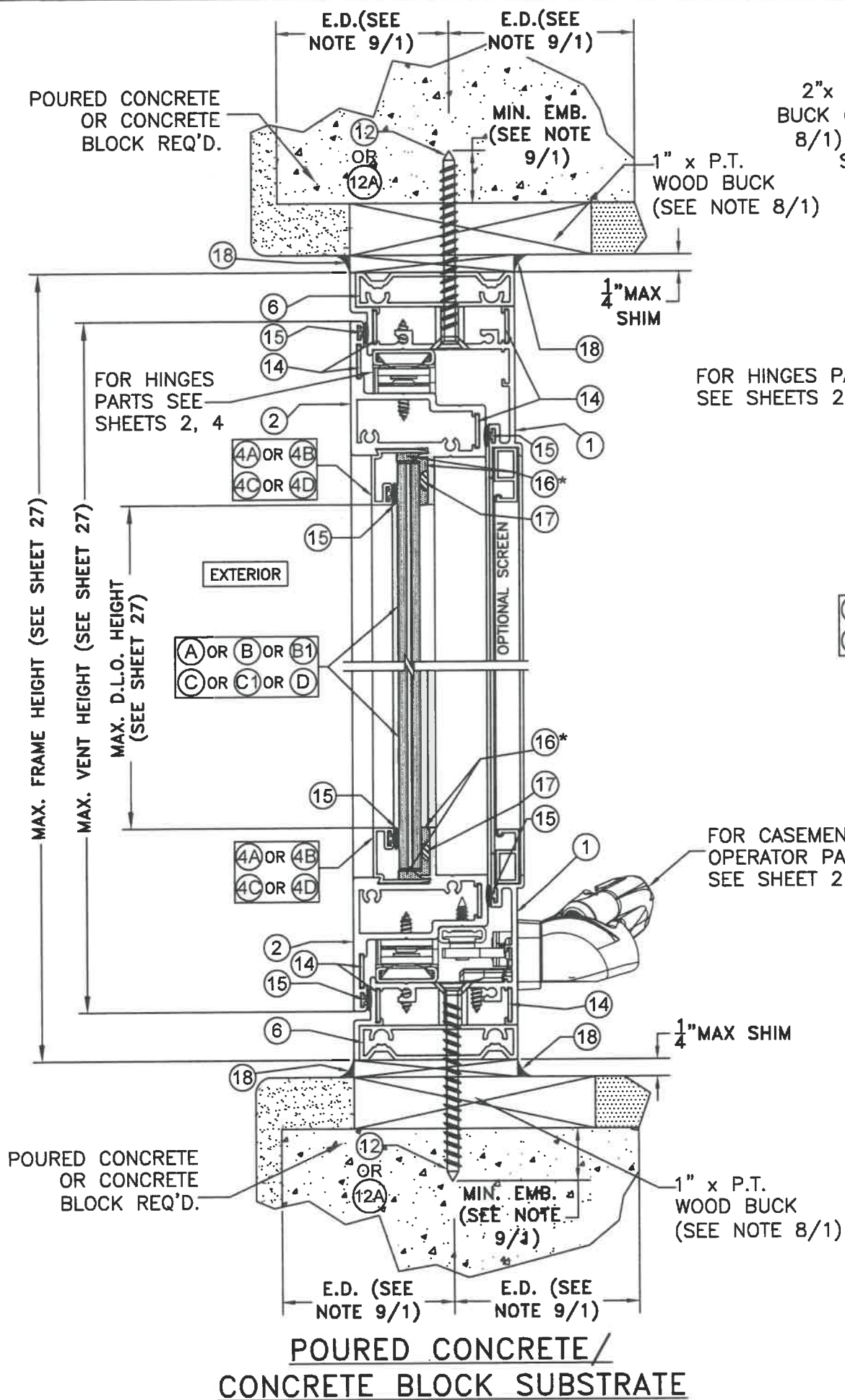
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DRAWN BY:

08/03/2020
DATE:

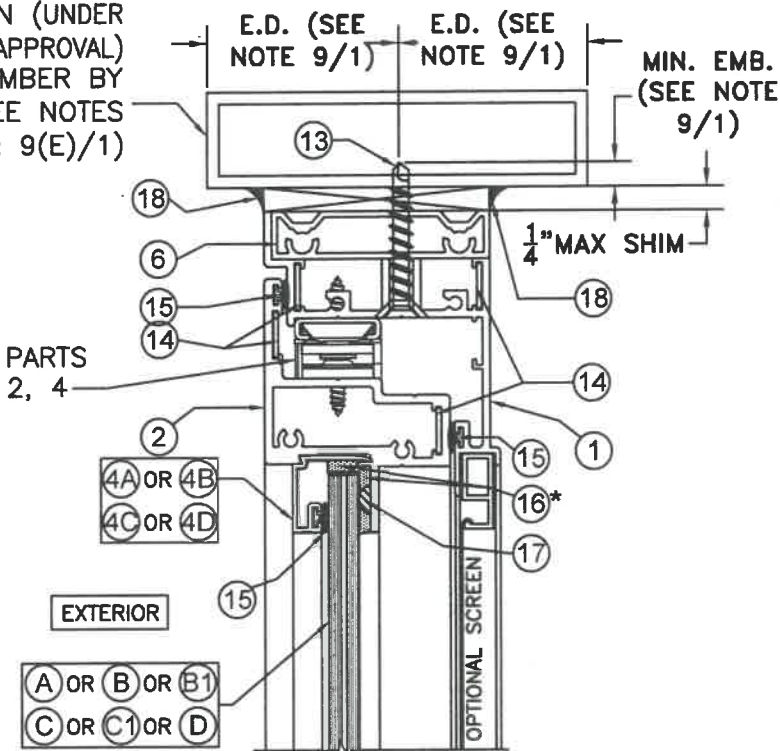
20-226
DRAWING No.

SHEET 12 OF 33

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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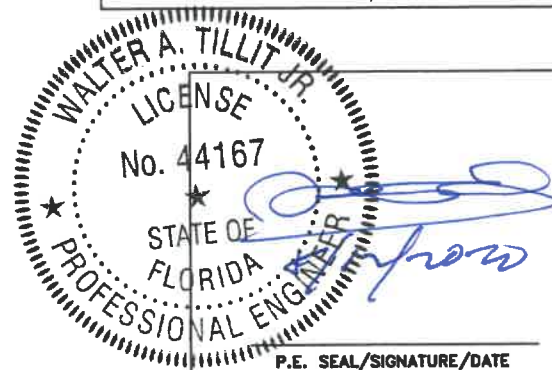
APPROVED ALUMINUM
TUBE MULLION OR
STOREFRONT OR CURTAIN
WALL MULLION (UNDER
SEPARATE APPROVAL)
OR STEEL MEMBER BY
OTHERS (SEE NOTES
9(D)/1 & 9(E)/1)



SECTION B-B (TYPICAL SYSTEM)

SCALE 1/2"=1"

* USE EPDM SETTING BLOCKS (GLASS THICKNESS X 1/16" THICK) AT 1/4 POINTS AT ALL GLASS. EACH LITE OF GLASS MORE THAN 3 FEET IN WIDTH SHALL HAVE TWO APPROVED SETTING BLOCKS, PER FBC.



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WINDOW-LMI (TYPICAL & HEAVY SYSTEMS)

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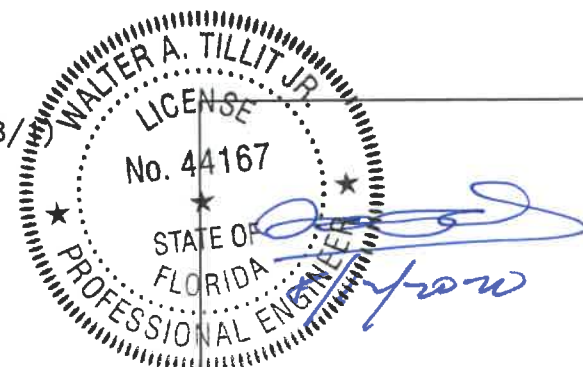
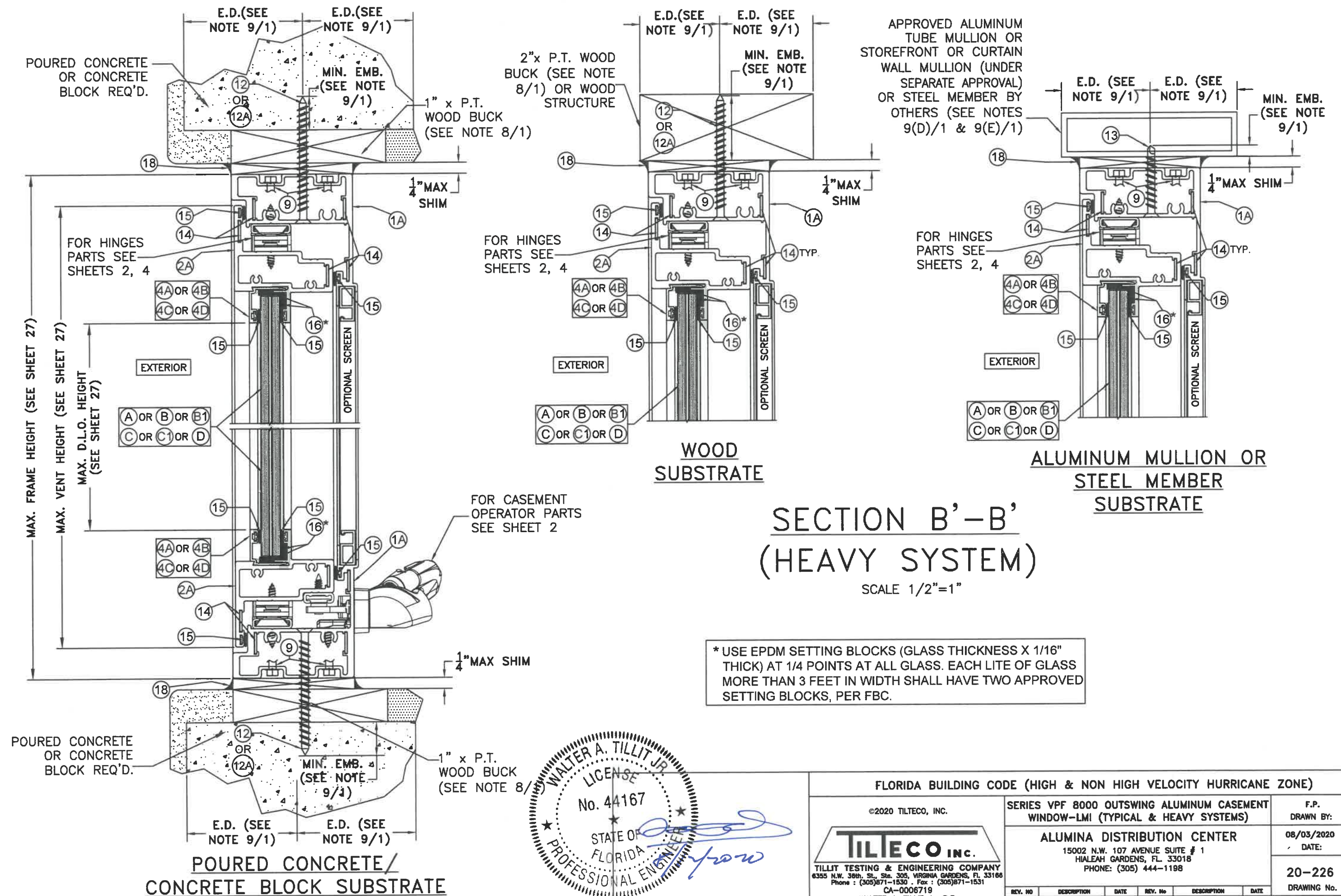
08/03/2020
DATE:

20-226

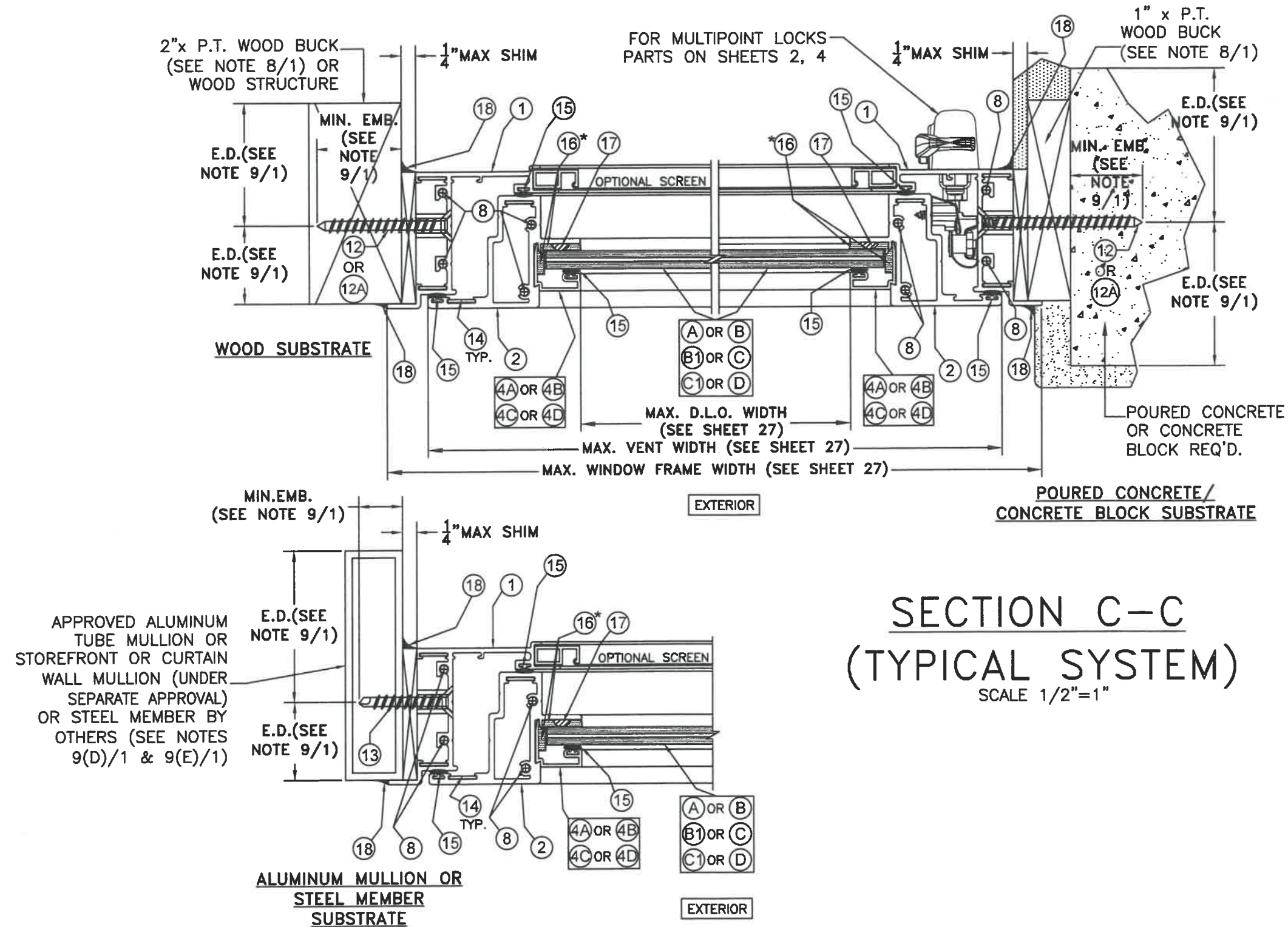
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SHEET 13 OF 33

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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2			4		



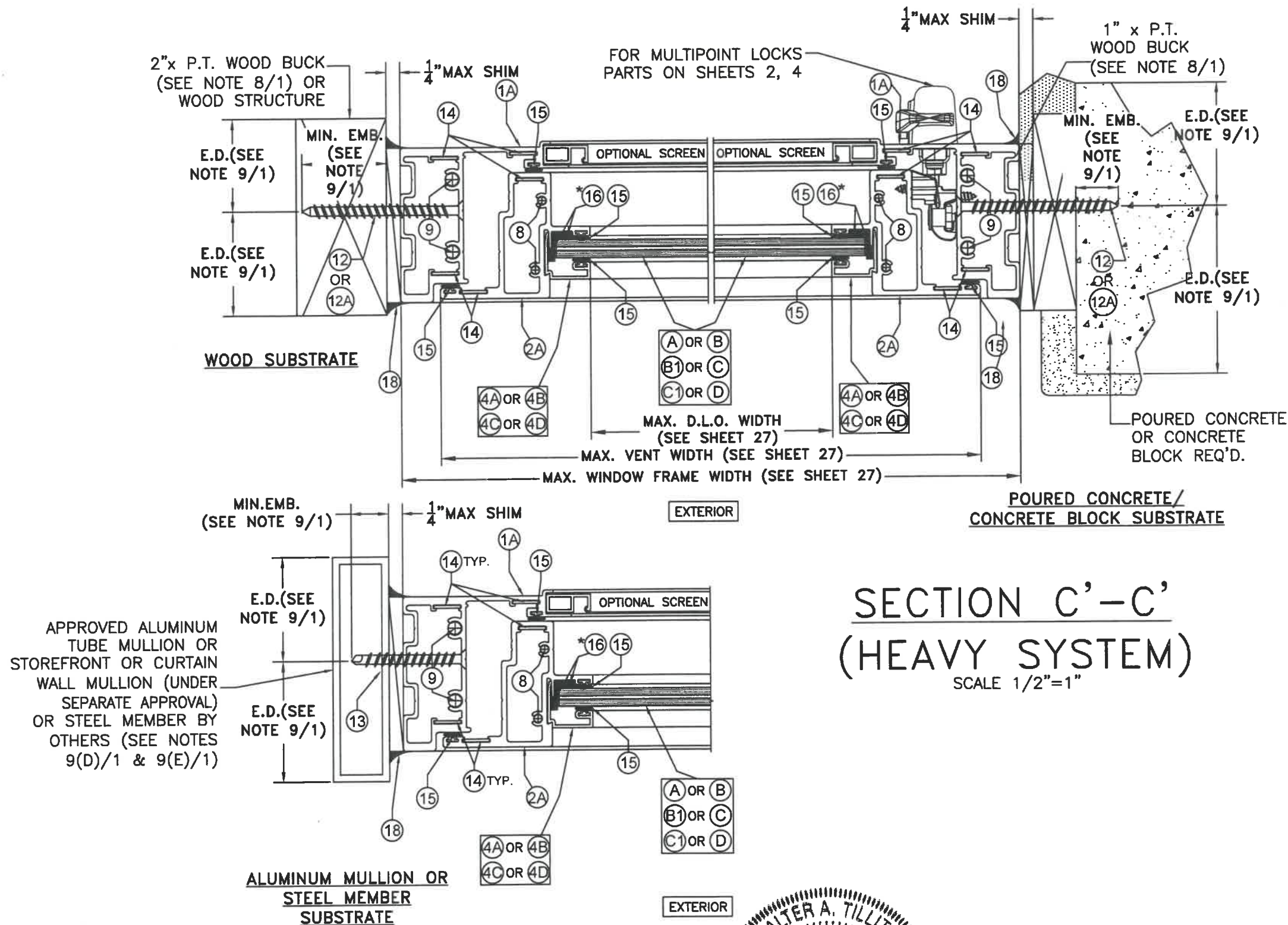
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REV. NO. 1 DESCRIPTION OLD 20-001 DATE 08/03/20			REV. No. 3 DESCRIPTION DATE		20-226 DRAWING No.
2			4		SHEET 14 OF 33



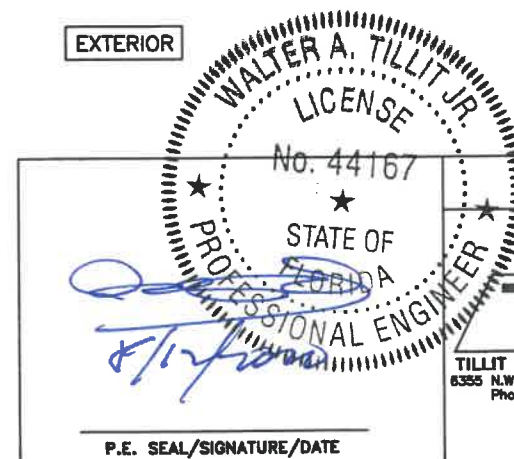
* USE EPDM SETTING BLOCKS (GLASS THICKNESS X 1/16" THICK) AT 1/4 POINTS AT ALL GLASS. EACH LITE OF GLASS MORE THAN 3 FEET IN WIDTH SHALL HAVE TWO APPROVED SETTING BLOCKS, PER FBC.



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			20-226 DRAWING No.		
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-001	08/03/20	3		
2			4		



* USE EPDM SETTING BLOCKS (GLASS THICKNESS X 1/16" THICK) AT 1/4 POINTS AT ALL GLASS. EACH LITE OF GLASS MORE THAN 3 FEET IN WIDTH SHALL HAVE TWO APPROVED SETTING BLOCKS, PER FBC.



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SERIES VPF 8000 OUTSWING ALUMINUM CASEMENT WINDOW-LMI (TYPICAL & HEAVY SYSTEMS)

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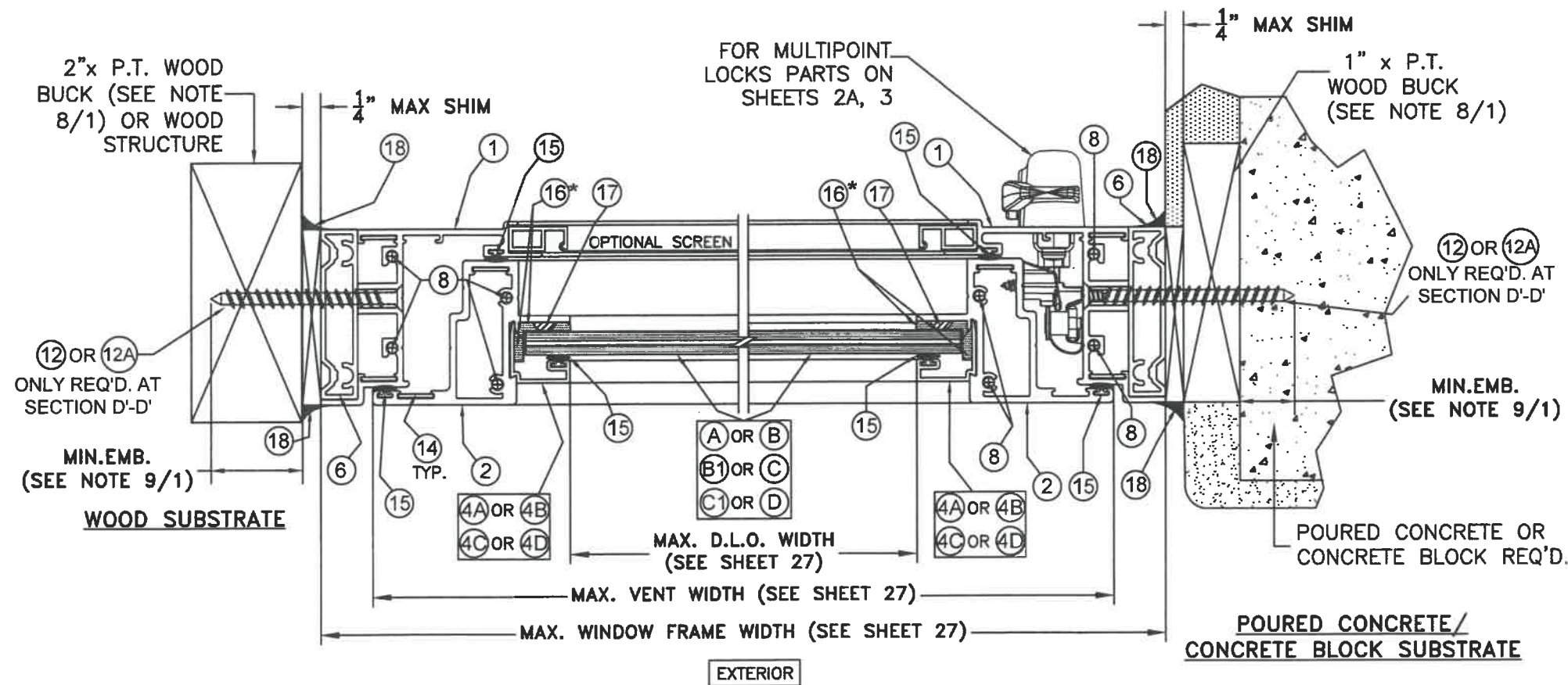
08/03/2020
DATE:

20-226

DRAWING No.

SHEET 16 OF 33

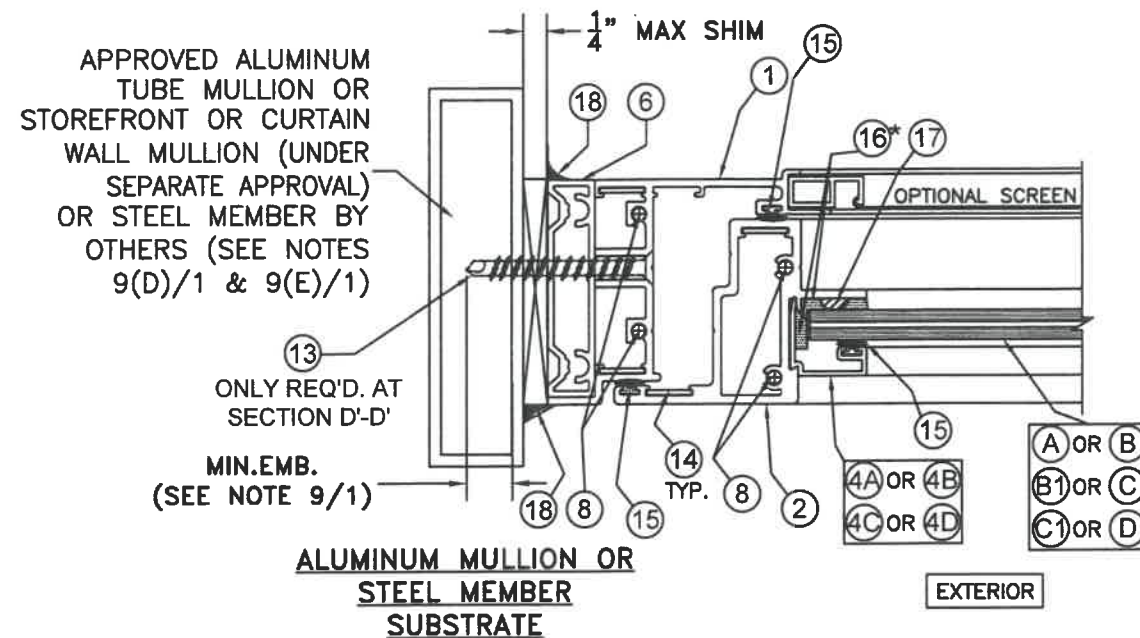
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2			4		



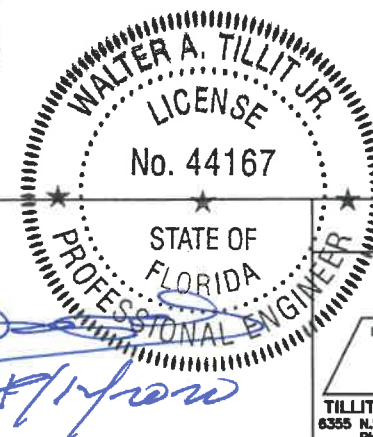
SECTIONS D-D & D'-D'

(TYPICAL SYSTEM)

SCALE 1/2"=1"



* USE EPDM SETTING BLOCKS (GLASS THICKNESS X 1/16" THICK) AT 1/4 POINTS AT ALL GLASS. EACH LITE OF GLASS MORE THAN 3 FEET IN WIDTH SHALL HAVE TWO APPROVED SETTING BLOCKS, PER FBC.



P.E. SEAL/SIGNATURE/DATE

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FLORIDA Lic. # 44167

SERIES VPF 8000 OUTSWING ALUMINUM CASEMENT WINDOW-LMI (TYPICAL & HEAVY SYSTEMS)

ALUMINA DISTRIBUTION CENTER
15002 N.W. 107 AVENUE SUITE # 1
HIALEAH GARDENS, FL 33018
PHONE: (305) 444-1198

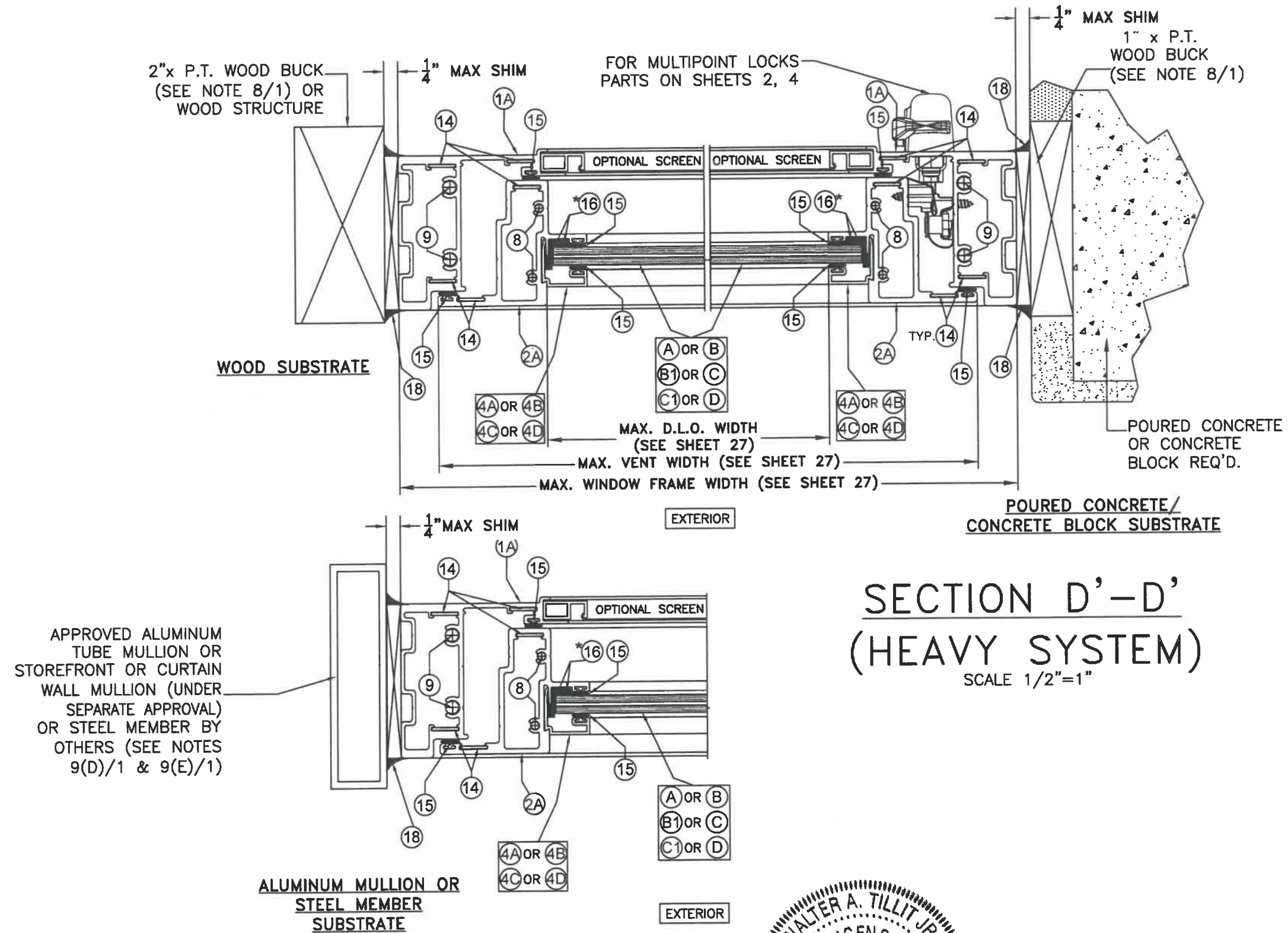
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DRAWN BY:

08/03/2020
DATE:

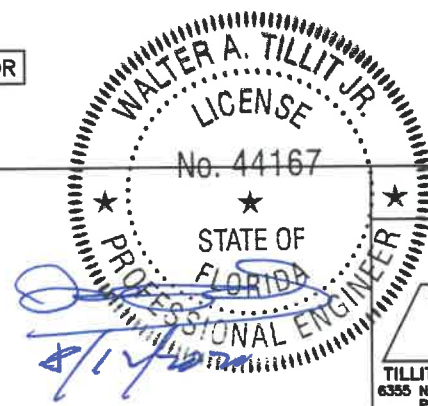
20-226
DRAWING No.

SHEET 17 OF 33

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-001	08/03/20	3		
2			4		



* USE EPDM SETTING BLOCKS (GLASS THICKNESS X 1/16" THICK) AT 1/4 POINTS AT ALL GLASS. EACH LITE OF GLASS MORE THAN 3 FEET IN WIDTH SHALL HAVE TWO APPROVED SETTING BLOCKS, PER FBC.



P.E. SEAL/SIGNATURE/DATE

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6355 N.W. 38th St., Ste. 305, VIRGINIA GARDENS, FL 33168
Phone : (305) 871-1530 , Fax : (305) 871-1531
CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

SERIES VPF 8000 OUTSWING ALUMINUM CASEMENT
WINDOW-LMI (TYPICAL & HEAVY SYSTEMS)

ALUMINA DISTRIBUTION CENTER
15002 N.W. 107 AVENUE SUITE # 1
HIALEAH GARDENS, FL 33018
PHONE: (305) 444-1198

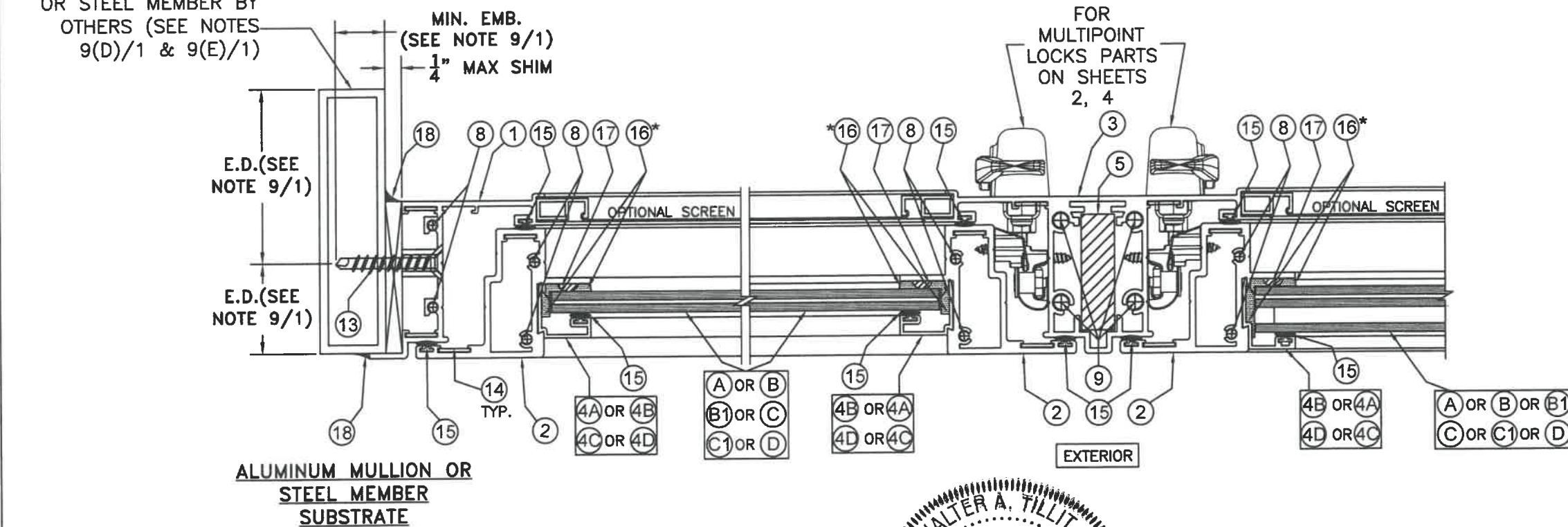
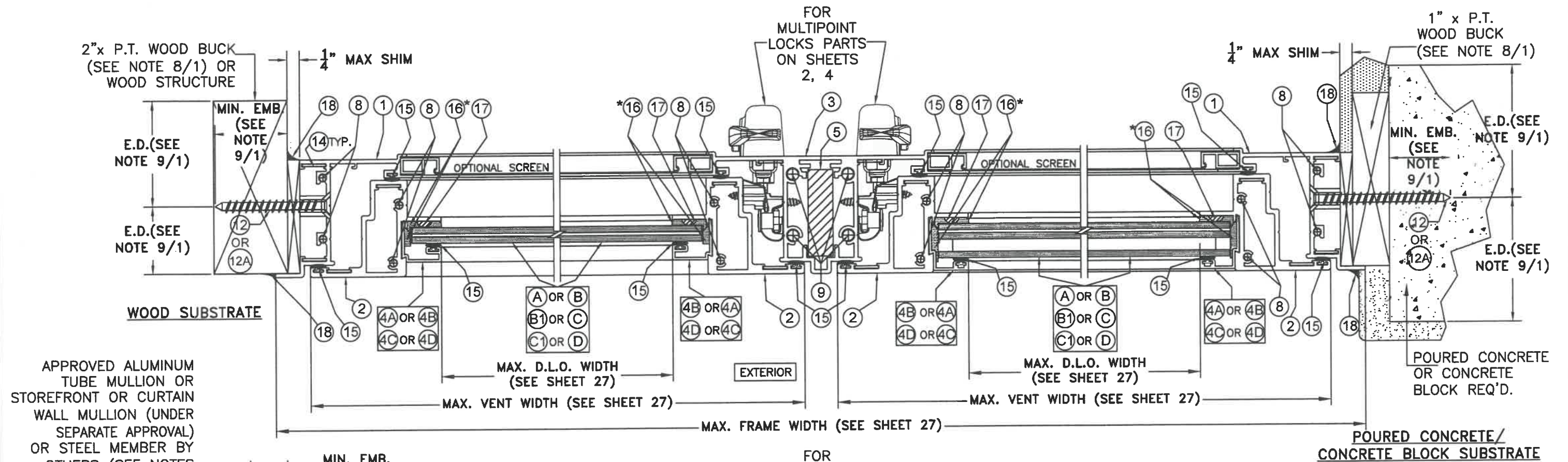
F.P.
DRAWN BY:

08/03/2020
DATE:

20-226
DRAWING No.

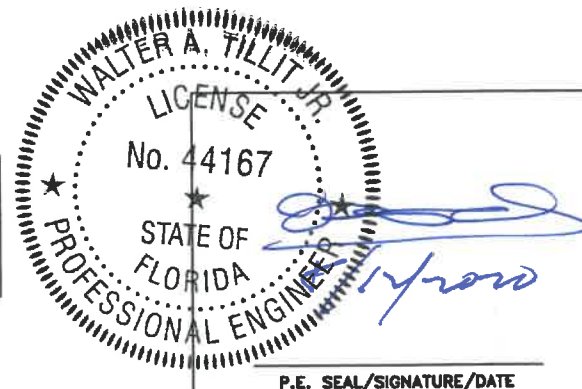
SHEET 18 OF 33

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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2			4		

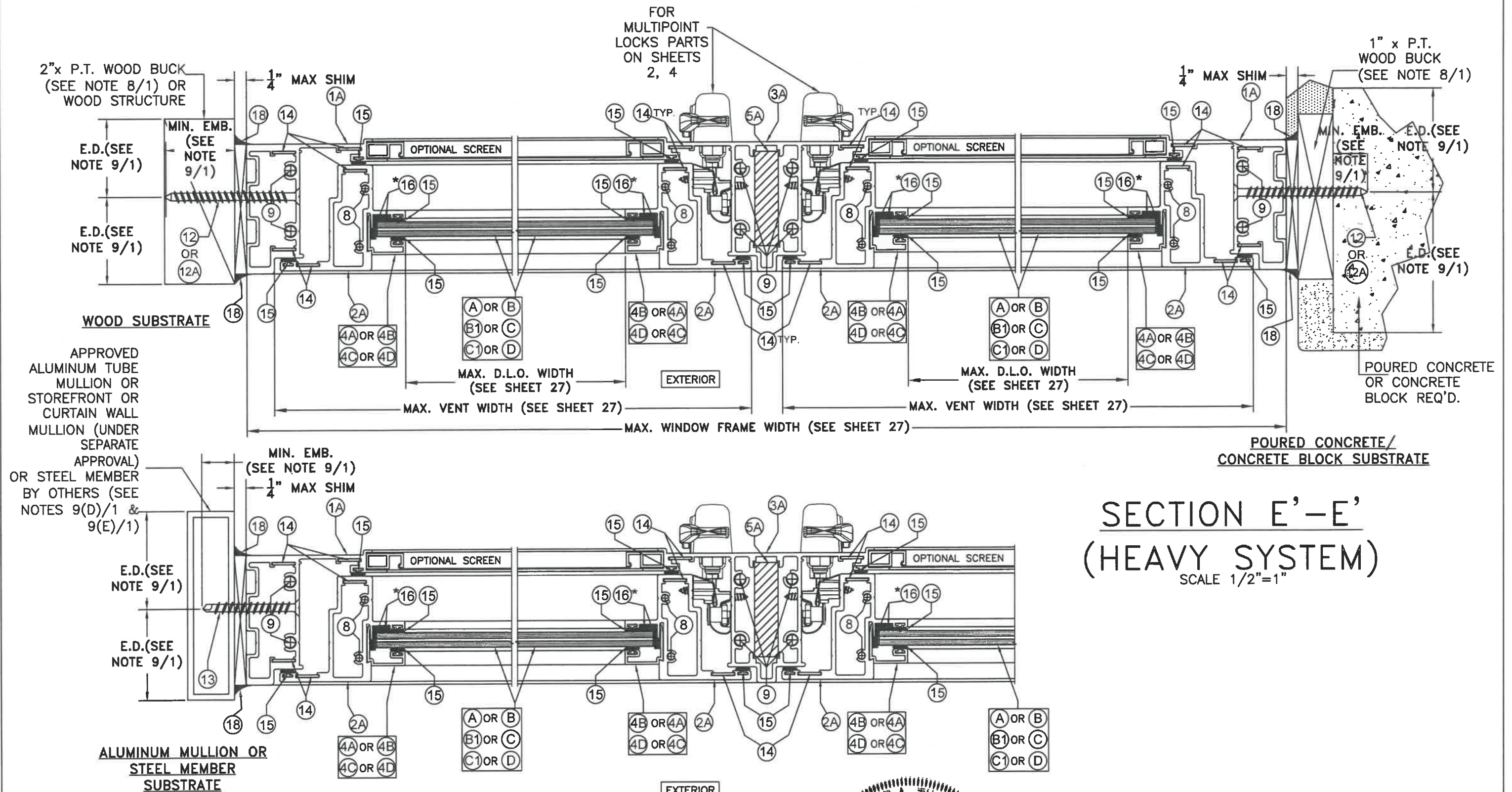


SECTION E-E
(TYPICAL SYSTEM)
 SCALE 1/2"=1"

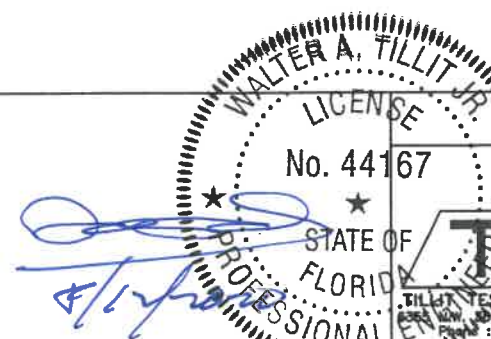
* USE EPDM SETTING BLOCKS (GLASS THICKNESS X 1/16" THICK) AT 1/4 POINTS AT ALL GLASS. EACH LITE OF GLASS MORE THAN 3 FEET IN WIDTH SHALL HAVE TWO APPROVED SETTING BLOCKS, PER FBC.



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			ALUMINA DISTRIBUTION CENTER 15002 N.W. 107 AVENUE SUITE # 1 HIALEAH GARDENS, FL 33018 PHONE: (305) 444-1198		08/03/2020 DATE:
					20-226 DRAWING No.
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-001	08/03/20	3		
2			4		



* USE EPDM SETTING BLOCKS (GLASS THICKNESS X 1/16" THICK) AT 1/4 POINTS AT ALL GLASS. EACH LITE OF GLASS MORE THAN 3 FEET IN WIDTH SHALL HAVE TWO APPROVED SETTING BLOCKS, PER FBC.



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

SERIES VPF 8000 OUTSWING ALUMINUM CASEMENT WINDOW-LMI (TYPICAL & HEAVY SYSTEMS)

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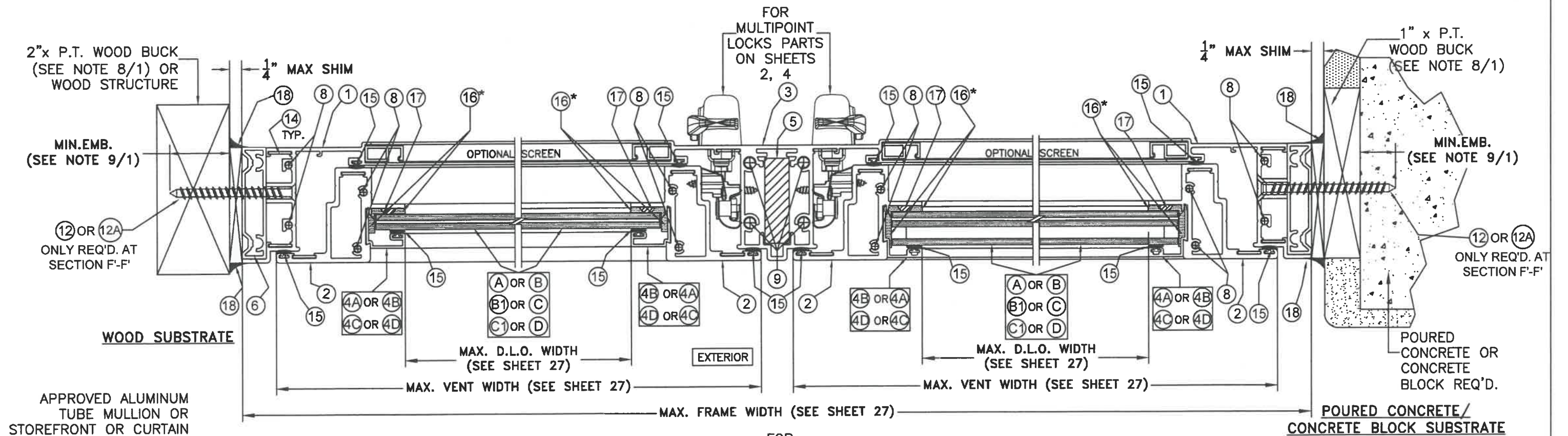
08/03/2020
DATE:

20-226

DRAWING No.

SHEET 20 OF 33

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-001	08/03/20	3		
2			4		



SECTIONS F-F & F'-F'

(TYPICAL SYSTEM)

SCALE 1/2"=1"

* USE EPDM SETTING BLOCKS (GLASS THICKNESS X 1/16" THICK) AT 1/4 POINTS AT ALL GLASS. EACH LITE OF GLASS MORE THAN 3 FEET IN WIDTH SHALL HAVE TWO APPROVED SETTING BLOCKS, PER FBC.

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

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CA-0008719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

SERIES VPF 8000 OUTSWING ALUMINUM CASEMENT WINDOW-LMI (TYPICAL & HEAVY SYSTEMS)

ALUMINA DISTRIBUTION CENTER
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HIALEAH GARDENS, FL 33018
PHONE: (305) 444-1198

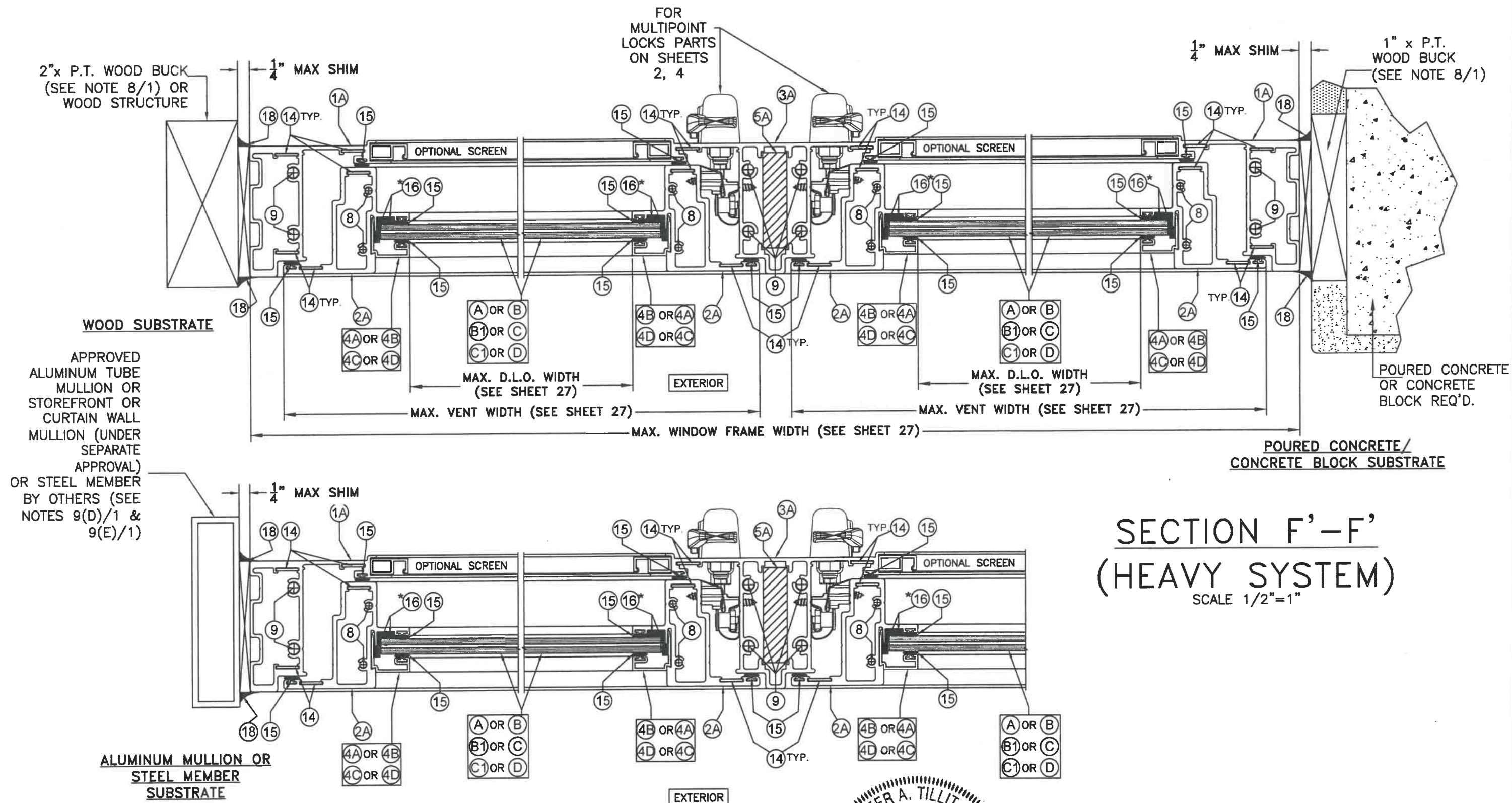
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2			4		

F.P. DRAWN BY:

08/03/2020 DATE:

20-226 DRAWING No.

SHEET 21 OF 33



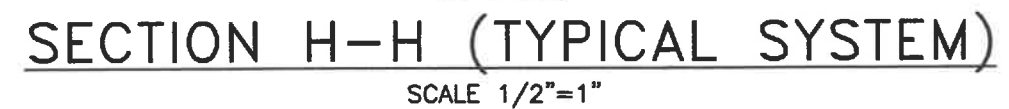
* USE EPDM SETTING BLOCKS (GLASS THICKNESS X 1/16" THICK) AT 1/4 POINTS AT ALL GLASS. EACH LITE OF GLASS MORE THAN 3 FEET IN WIDTH SHALL HAVE TWO APPROVED SETTING BLOCKS, PER FBC.

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

TILTECO INC.
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PHONE: (305) 444-1198
CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

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SERIES VPF 8000 OUTSWING ALUMINUM CASEMENT WINDOW-LMI (TYPICAL & HEAVY SYSTEMS)				F.P. DRAWN BY:	
ALUMINA DISTRIBUTION CENTER 15002 N.W. 107 AVENUE SUITE # 1 HIALEAH GARDENS, FL 33018 PHONE: (305) 444-1198				08/03/2020 DATE:	
				20-226 DRAWING No.	
REV. NO	DESCRIPTION	DATE	REV. NO	DESCRIPTION	DATE
1	OLD 20-001	08/03/20	3		
2			4		



WALTER A. TILLIT JR.

LICENSE

No. 44167

STATE OF FLORIDA

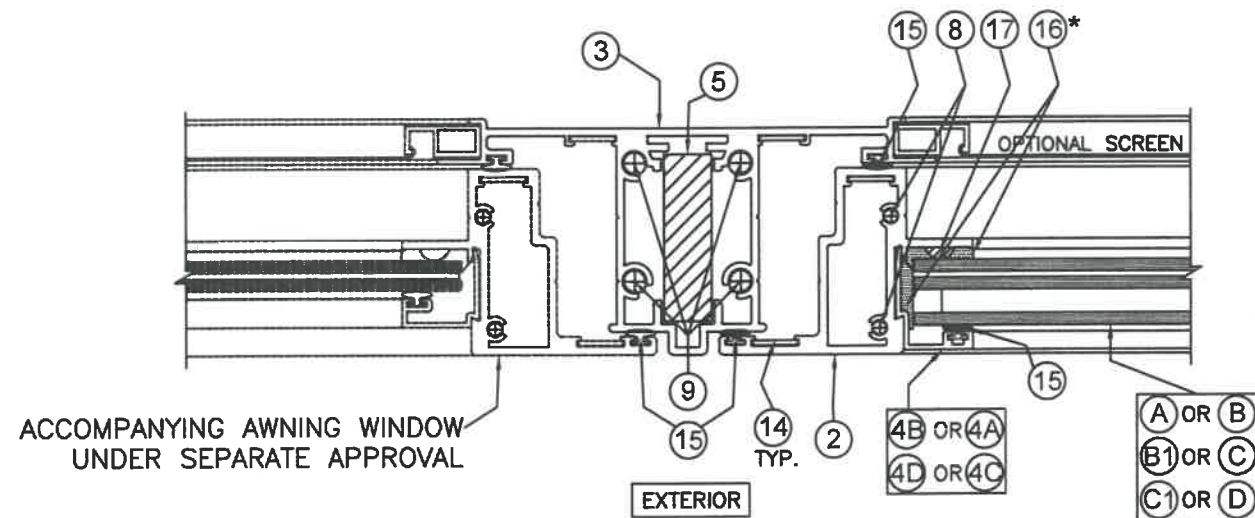
PROFESSIONAL ENGINEER

8/12/2020

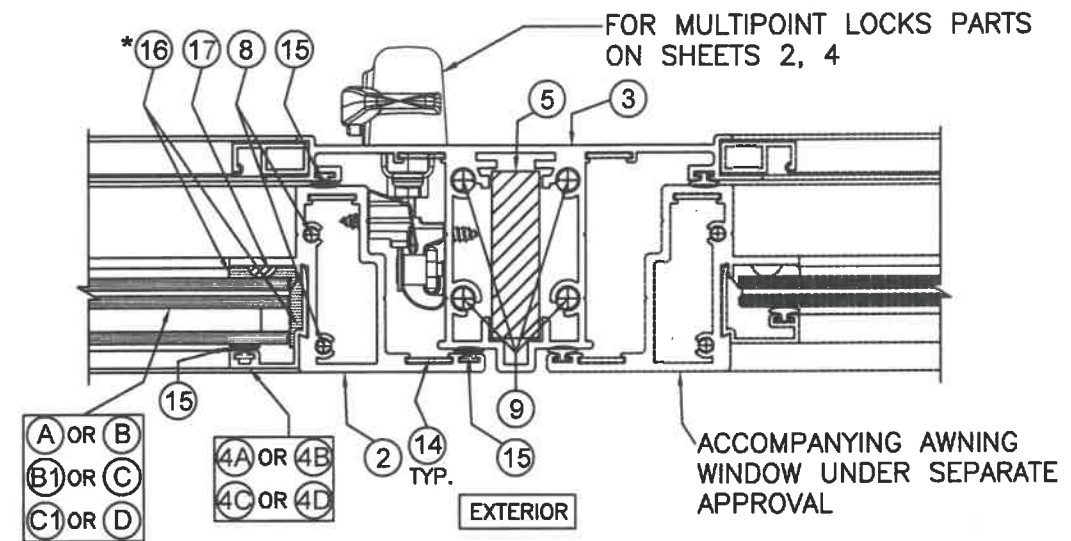
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CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44187

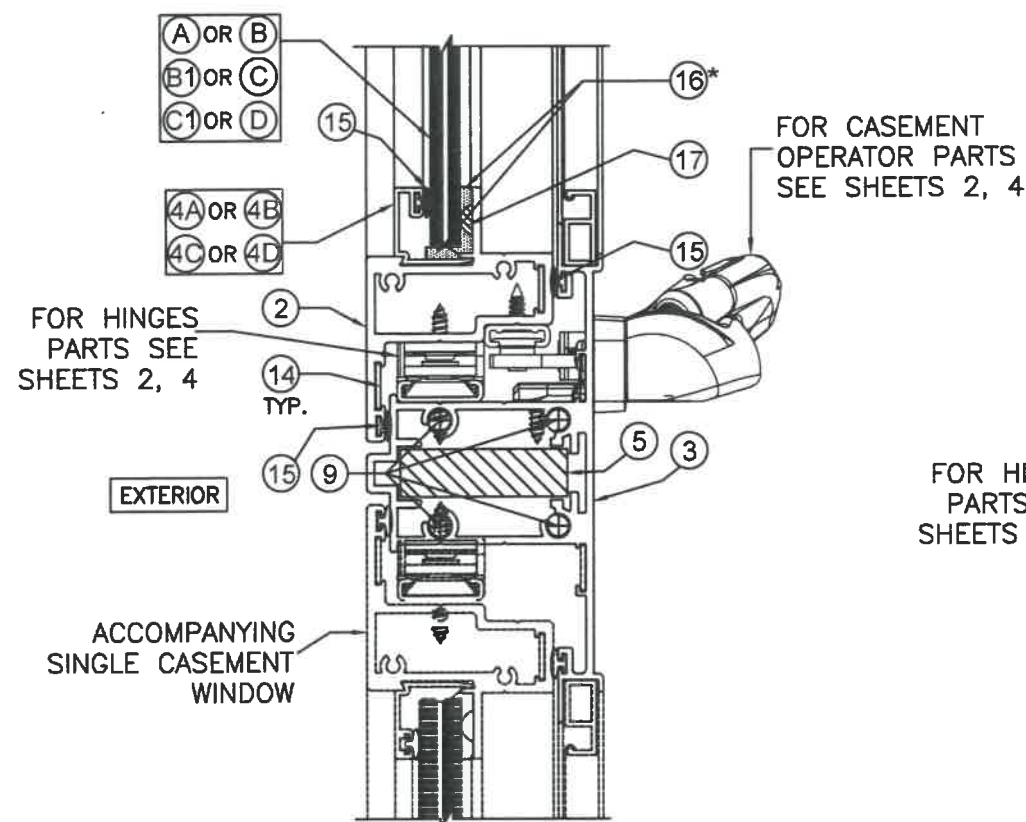
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-001	06/03/20	3		



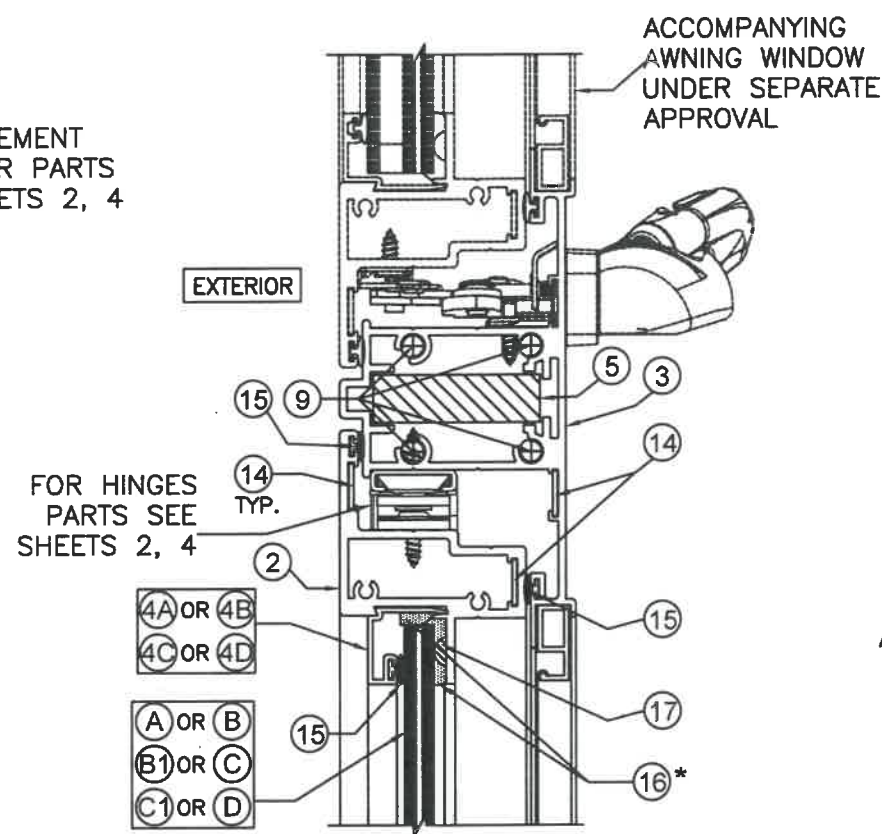
SECTION L-L (TYPICAL SYSTEM)
SCALE 1/2"=1"



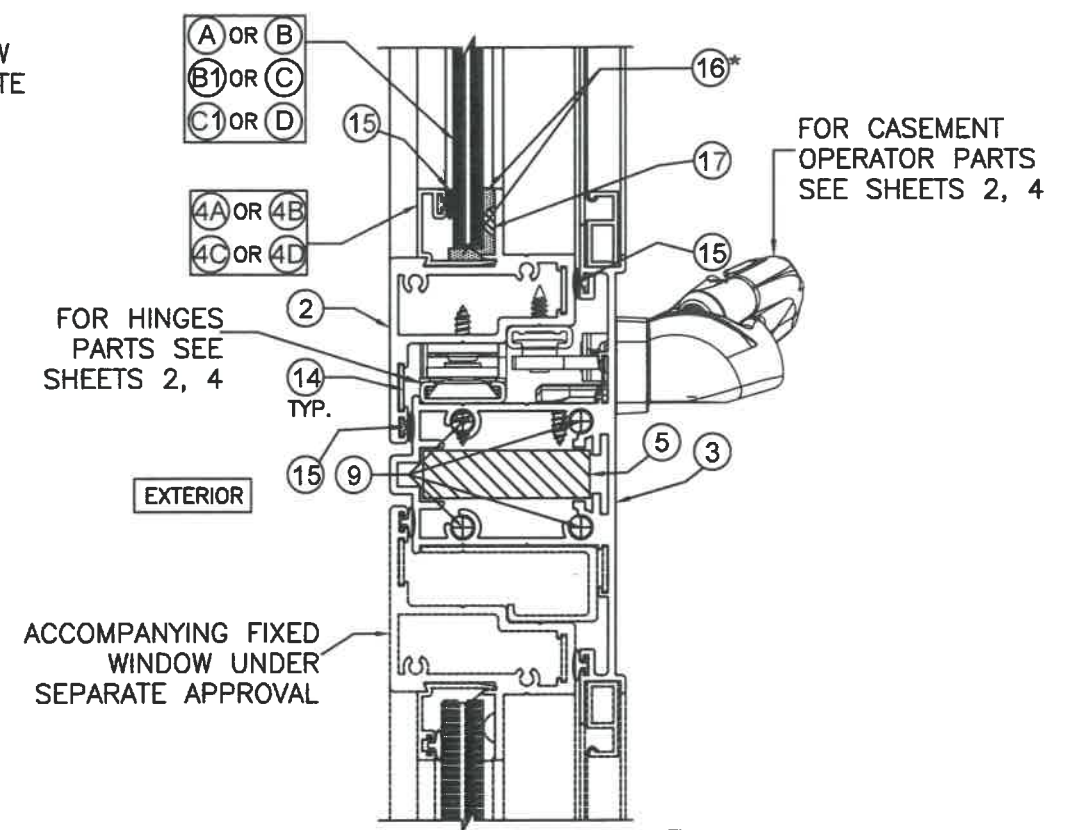
SECTION M-M (TYPICAL SYSTEM)
SCALE 1/2"=1"



SECTION N-N (TYPICAL SYSTEM)
SCALE 1/2"=1"



SECTION O-O (TYPICAL SYSTEM)
SCALE 1/2"=1"



SECTION P-P (TYPICAL SYSTEM)
SCALE 1/2"=1"

* USE EPDM SETTING BLOCKS (GLASS THICKNESS X 1/16" THICK) AT 1/4 POINTS AT ALL GLASS. EACH LITE OF GLASS MORE THAN 3 FEET IN WIDTH SHALL HAVE TWO APPROVED SETTING BLOCKS, PER FBC.

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STATE OF FLORIDA
PROFESSIONAL ENGINEER

8/14/2020

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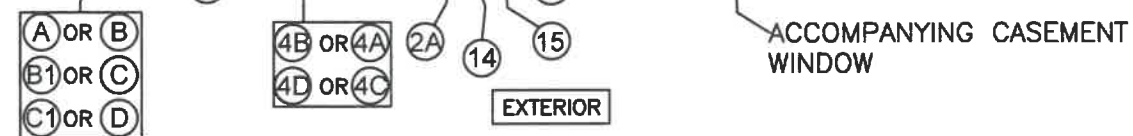
SERIES VPF 8000 OUTSWING ALUMINUM CASSEMENT WINDOW-LMI (TYPICAL & HEAVY SYSTEMS)

ALUMINA DISTRIBUTION CENTER
15002 N.W. 107 AVENUE SUITE # 1
HIALEAH GARDENS, FL 33018
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DRAWN BY:
08/03/2020
DATE:
20-226
DRAWING No.
SHEET 24 OF 33

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-001	06/03/20	3		
2			4		

POINT LOCKS PARTS
ON SHEETS 2, 4



SECTION G'-G' (HEAVY SYSTEM)

SCALE 1/2"=1"



SECTION 1'-1' (HEAVY SYSTEM)

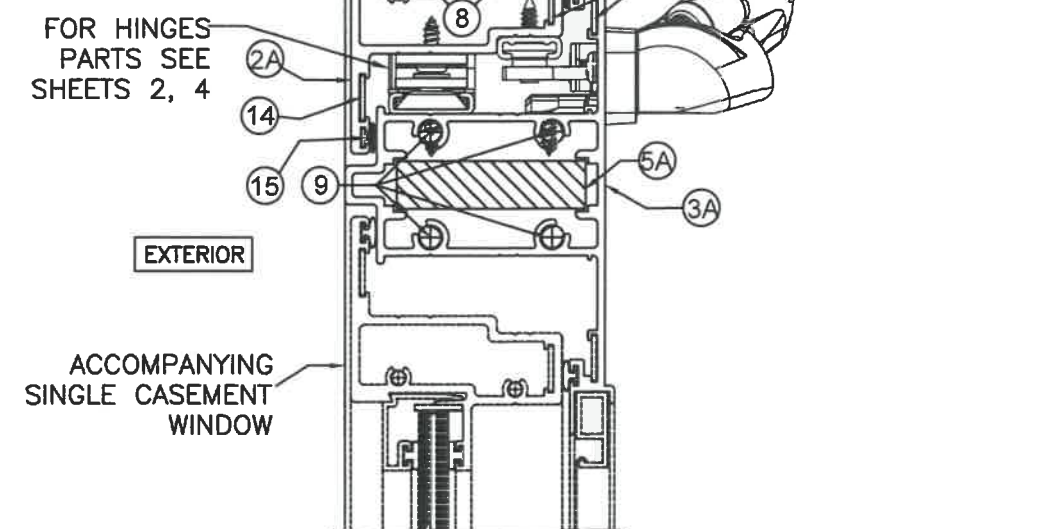
SCALE $1/2"=1"$

*** USE EPDM SETTING BLOCKS (GLASS THICKNESS X 1/16" THICK) AT 1/4 POINTS AT ALL GLASS. EACH LITE OF GLASS MORE THAN 3 FEET IN WIDTH SHALL HAVE TWO APPROVED SETTING BLOCKS, PER FBC.**



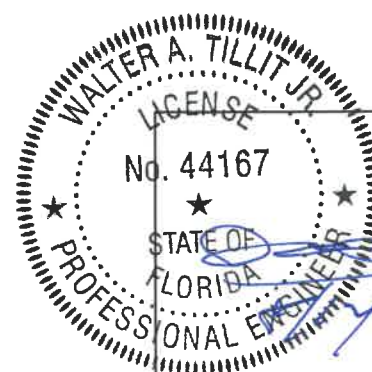
SECTION H'-H' (HEAVY SYSTEM)

SCALE 1/2"=1"



SECTION N'-N' (HEAVY SYSTEM)

SCALE 1/2"=1"



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SERIES VPF 8000 OUTSWING ALUMINUM CASEMENT WINDOW-LMI (TYPICAL & HEAVY SYSTEMS)

ALUMINA DISTRIBUTION CENTER

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HIALEAH GARDENS, FL. 33018
PHONE: (305) 444-1198

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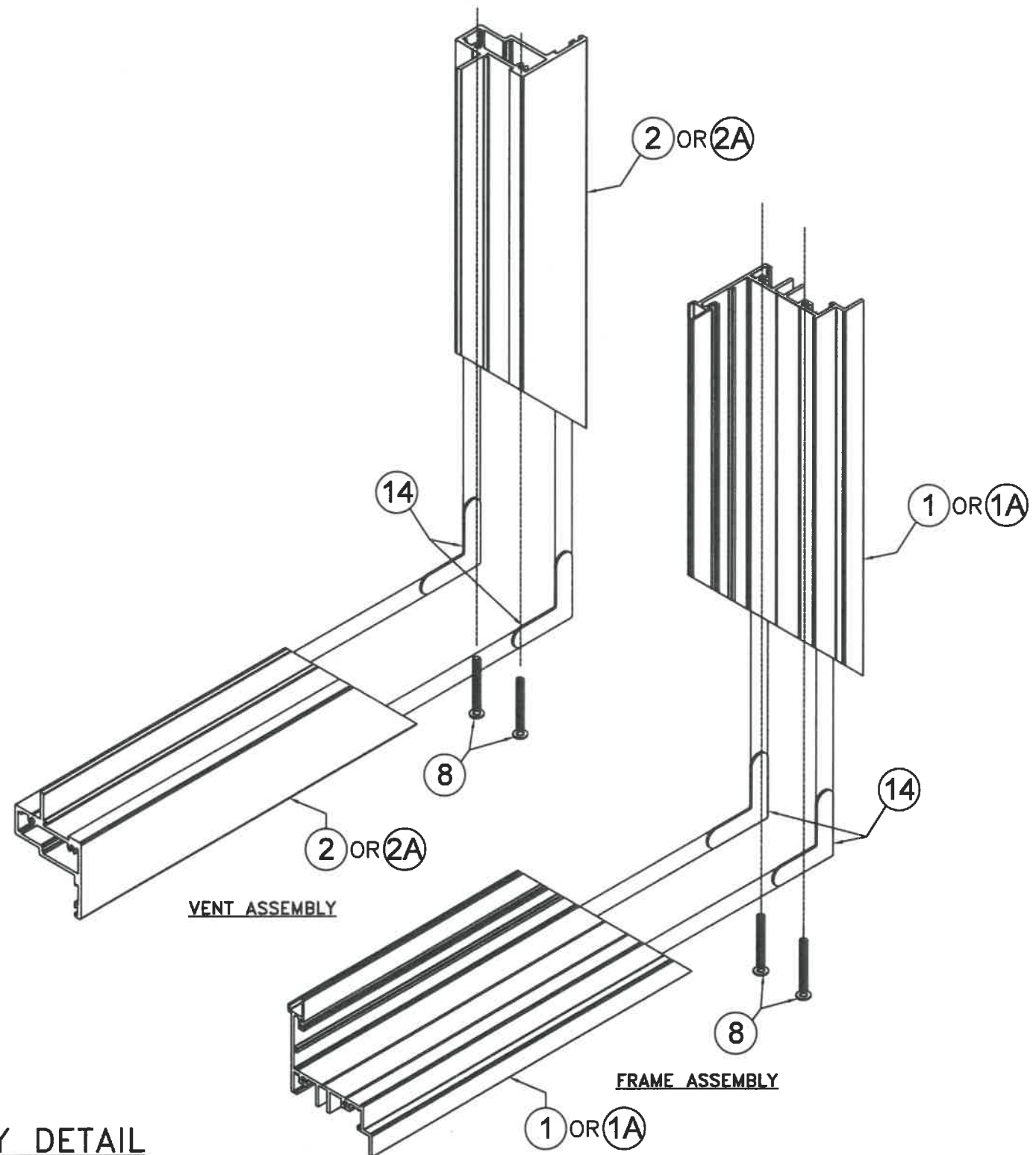
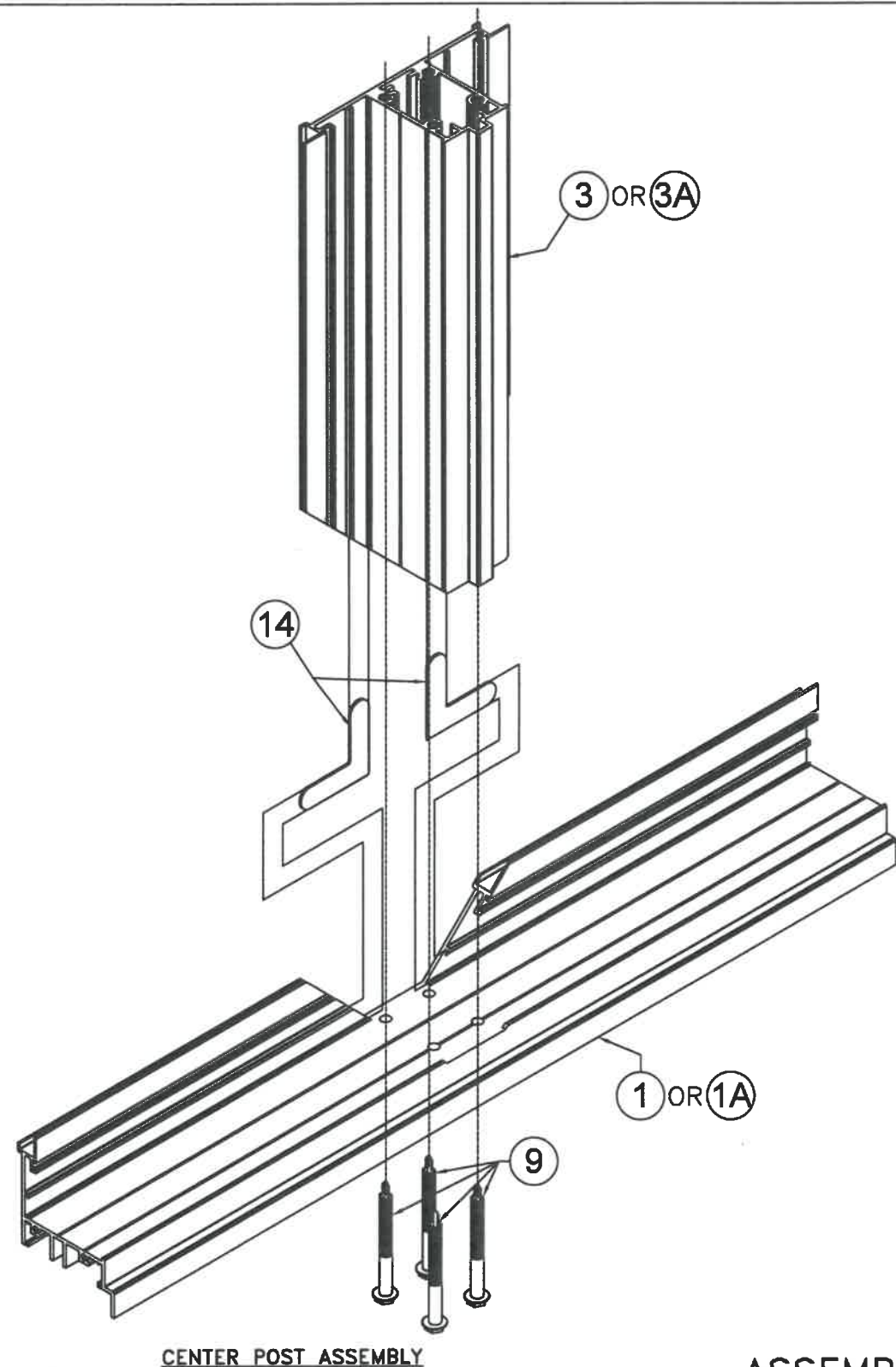
08/03/2020
DATE:

20-226

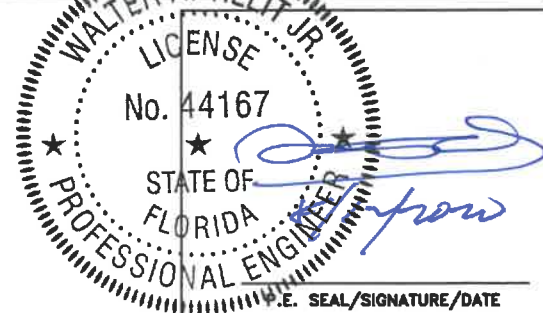
DRAWING No.

SHEET 25 OF 33

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-001	08/03/20	3		
2			4		



ASSEMBLY DETAIL ISOMETRIC (TYPICAL & HEAVY SYSTEMS)



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SERIES VPF 8000 OUTSWING ALUMINUM CASEMENT
WINDOW-LMI (TYPICAL & HEAVY SYSTEMS)

ALUMINA DISTRIBUTION CENTER
15002 N.W. 107 AVENUE SUITE # 1
HIALEAH GARDENS, FL 33018
PHONE: (305) 444-1198

F.P.
DRAWN BY:

08/03/2020
DATE:

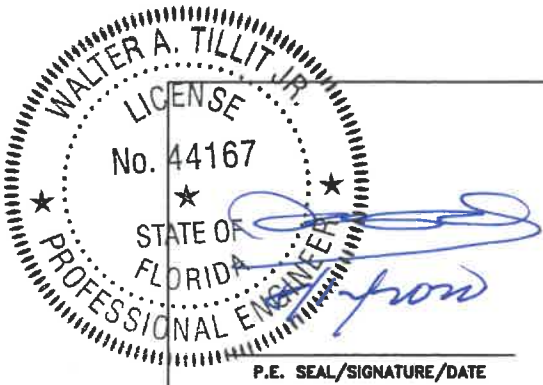
20-226
DRAWING No.

SHEET 26 OF 33

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-001	08/03/20	3		
2			4		

TYPICAL & HEAVY SYSTEMS								
SCHEDULE #1: VALID FOR INSTALLATIONS ON SHEETS 6, 7, 8, 9, 10								
MAX. ASD. DESIGN PRESSURE RATING AND CORRESPONDING MAX. FRAME, VENT & DLO. DIMENSIONS FOR SINGLE & DOUBLE VENT CASEMENT WINDOWS								
MAX. ASD DESIGN PRESSURE RATING	MAX. FRAME WIDTH ● SINGLE VENT WINDOW	MAX. FRAME WIDTH ● DOUBLE VENT WINDOW	MAX. FRAME HEIGHT	MAX. VENT WIDTH	MAX. VENT HEIGHT	MAX. D.L.O. WIDTH	MAX. D.L.O. HEIGHT	REQ'D. GLASS TYPE
+72.0, -72.0	42"	84"	74"	41"	72 1/2"	35 5/8"	67 3/16"	Ⓐ. Ⓑ. Ⓒ. Ⓓ
+105.0, -105.0	42"	84"	55"	41"	53 3/8"	35 5/8"	48 1/16"	Ⓑ. Ⓒ
+110.0, -110.0	40"	80"	58"	39"	56 3/8"	33 5/8"	51 1/16"	Ⓑ. Ⓒ
+120.0, -120.0	37"	74"	63"	36"	61 3/8"	30 5/8"	56 1/16"	Ⓑ. Ⓒ

TYPICAL & HEAVY SYSTEMS							
SCHEDULE #2: VALID FOR INSTALLATIONS ON SHEET 11							
MAX. ASD. DESIGN PRESSURE RATING AND CORRESPONDING MAX. FRAME, VENT & DLO. DIMENSIONS FOR VERTICAL COMBINATIONS OF SINGLE VENT CASEMENT, AWNING OR FIXED WINDOWS							
MAX. ASD DESIGN PRESSURE RATING	MAX. FRAME WIDTH ● SINGLE VENT WINDOW	MAX. FRAME HEIGHT	MAX. VENT WIDTH	MAX. VENT HEIGHT	MAX. D.L.O. WIDTH	MAX. D.L.O. HEIGHT	REQ'D. GLASS TYPE
+72.0, -72.0	42"	74"	41"	72 1/2"	35 5/8"	67 3/16"	Ⓐ. Ⓑ. Ⓒ. Ⓓ
+105.0, -105.0	42"	55"	41"	53 3/8"	35 5/8"	48 1/16"	Ⓑ. Ⓒ
+110.0, -110.0	40"	58"	39"	56 3/8"	33 5/8"	51 1/16"	Ⓑ. Ⓒ
+120.0, -120.0	37"	63"	36"	61 3/8"	30 5/8"	56 1/16"	Ⓑ. Ⓒ

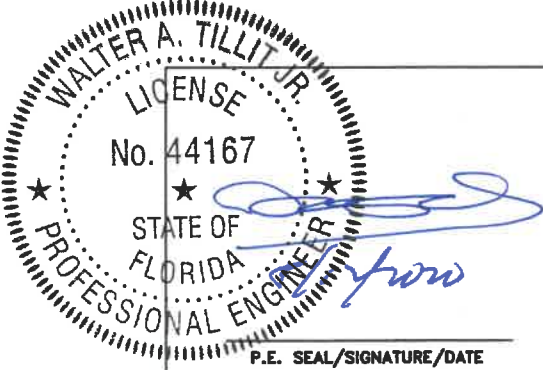


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REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-001	08/03/20	3		
2			4		
20-226 DRAWING No.					SHEET 27 OF 33

TYPICAL & HEAVY SYSTEMS						
MAXIMUM ANCHOR SPACING "S" AT ATTACHED JAMB FOR SINGLE & DOUBLE VENT CASEMENT WINDOWS VALID FOR INSTALLATIONS SHEETS 6, 8, 9, 10 & 11 (AS APPLICABLE)						
SUBSTRATE	ANCHOR TYPE	MAX. ASD DESIGN PRESSURE RATING (psf.)	MAX. FRAME WIDTH ● SINGLE VENT WINDOW	MAX. FRAME WIDTH ● DOUBLE VENT WINDOW *	MAX. FRAME HEIGHT	"S" (O.C.) AT JAMB
POURED CONCRETE f'c=3000psi	⑫ OR ⑫A	+72.0, -72.0	42"	84"	74"	15"
		+75.0, -75.0	42"	84"	55"	14"
			40"	80"	58"	15"
			37"	74"	63"	16"
		+80.0, -80.0	42"	84"	55"	13"
			40"	80"	58"	14"
			37"	74"	63"	15"
		+85.0, -85.0	42"	84"	55"	12"
			40"	80"	58"	13"
			37"	74"	63"	14"
		+90.0, -90.0	42"	84"	55"	12"
			40"	80"	58"	12"
			37"	74"	63"	13"
		+95.0, -95.0	42"	84"	55"	11"
			40"	80"	58"	12"
			37"	74"	63"	13"
		+100.0, -100.0	42"	84"	55"	11"
			40"	80"	58"	11"
			37"	74"	63"	12"
		+105.0, -105.0	42"	84"	55"	10"
			40"	80"	58"	11"
			37"	74"	63"	11"
		+110.0, -110.0	40"	80"	58"	10"
			37"	74"	63"	11"
		+115.0, -115.0	37"	74"	63"	10"
		+120.0, -120.0	37"	74"	63"	10"

CONTINUED						
CONCRETE BLOCK	⑫ OR ⑫A	+72.0, -72.0	42"	84"	74"	12"
		+75.0, -75.0	42"	84"	55"	12"
			40"	80"	58"	12"
			37"	74"	63"	13"
		+80.0, -80.0	42"	84"	55"	11"
			40"	80"	58"	12"
			37"	74"	63"	13"
		+85.0, -85.0	42"	84"	55"	10"
			40"	80"	58"	11"
			37"	74"	63"	12"
		+90.0, -90.0	42"	84"	55"	10"
			40"	80"	58"	10"
			37"	74"	63"	11"
		+95.0, -95.0	42"	84"	55"	9"
			40"	80"	58"	10"
			37"	74"	63"	10"
		+100.0, -100.0	42"	84"	55"	9"
			40"	80"	58"	9"
			37"	74"	63"	10"
		+105.0, -105.0	42"	84"	55"	8"
			40"	80"	58"	9"
			37"	74"	63"	9"
		+110.0, -110.0	40"	80"	58"	8"
			37"	74"	63"	9"
		+115.0, -115.0	37"	74"	63"	9"
		+120.0, -120.0	37"	74"	63"	8"

* THIS COLUMN NOT APPLICABLE TO INSTALLATIONS ON SHEET 11.



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WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

SERIES VPF 8000 OUTSWING ALUMINUM CASEMENT WINDOW-LMI (TYPICAL & HEAVY SYSTEMS)

ALUMINA DISTRIBUTION CENTER
15002 N.W. 107 AVENUE SUITE # 1
HIALEAH GARDENS, FL 33018
PHONE: (305) 444-1198

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-001	08/03/20	3		
2			4		

F.P.
DRAWN BY:

08/03/2020
DATE:

20-226
DRAWING No.

SHEET 28 OF 33

TYPICAL & HEAVY SYSTEMS						
MAXIMUM ANCHOR SPACING "S" AT ATTACHED JAMB FOR SINGLE & DOUBLE VENT CASEMENT WINDOWS VALID FOR INSTALLATIONS SHEETS 6, 8, 9, 10 & 11 (AS APPLICABLE)						
SUBSTRATE	ANCHOR TYPE	MAX. ASD DESIGN PRESSURE RATING (psf.)	MAX. FRAME WIDTH ● SINGLE VENT WINDOW	MAX. FRAME WIDTH ● DOUBLE VENT WINDOW *	MAX. FRAME HEIGHT	"S" AT JAMB
ALUMINUM OR STEEL	⑬	+72.0, -72.0	42"	84"	74"	16"
		+75.0, -75.0	42"	84"	55"	16"
			40"	80"	58"	16"
			37"	74"	63"	16"
		+80.0, -80.0	42"	84"	55"	16"
			40"	80"	58"	16"
			37"	74"	63"	16"
		+85.0, -85.0	42"	84"	55"	15"
			40"	80"	58"	16"
			37"	74"	63"	16"
		+90.0, -90.0	42"	84"	55"	14"
			40"	80"	58"	15"
			37"	74"	63"	16"
		+95.0, -95.0	42"	84"	55"	13"
			40"	80"	58"	14"
			37"	74"	63"	15"
		+100.0, -100.0	42"	84"	55"	13"
			40"	80"	58"	13"
			37"	74"	63"	14"
		+105.0, -105.0	42"	84"	55"	12"
			40"	80"	58"	13"
			37"	74"	63"	14"
		+110.0, -110.0	40"	80"	58"	12"
			37"	74"	63"	13"
		+115.0, -115.0	37"	74"	63"	12"
		+120.0, -120.0	37"	74"	63"	12"

CONTINUED						
WOOD	⑫ OR ⑫A	+72.0, -72.0	42"	84"	74"	15"
		+75.0, -75.0	42"	84"	55"	14"
			40"	80"	58"	15"
			37"	74"	63"	16"
		+80.0, -80.0	42"	84"	55"	13"
			40"	80"	58"	14"
			37"	74"	63"	15"
		+85.0, -85.0	42"	84"	55"	12"
			40"	80"	58"	13"
			37"	74"	63"	14"
		+90.0, -90.0	42"	84"	55"	12"
			40"	80"	58"	12"
			37"	74"	63"	13"
		+95.0, -95.0	42"	84"	55"	11"
			40"	80"	58"	12"
			37"	74"	63"	13"
		+100.0, -100.0	42"	84"	55"	11"
			40"	80"	58"	11"
			37"	74"	63"	12"
		+105.0, -105.0	42"	84"	55"	10"
			40"	80"	58"	11"
			37"	74"	63"	11"
		+110.0, -110.0	40"	80"	58"	10"
			37"	74"	63"	11"
		+115.0, -115.0	37"	74"	63"	10"
		+120.0, -120.0	37"	74"	63"	10"

* THIS COLUMN NOT APPLICABLE TO INSTALLATIONS ON SHEET 11.



P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)					
©2020 TILTECO, INC.			SERIES VPF 8000 OUTSWING ALUMINUM CASEMENT WINDOW-LMI (TYPICAL & HEAVY SYSTEMS)		F.P. DRAWN BY:
			ALUMINA DISTRIBUTION CENTER		08/03/2020
TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 . Fax : (305)871-1531 CA-0006719			15002 N.W. 107 AVENUE SUITE # 1 HIALEAH GARDENS, FL 33018 PHONE: (305) 444-1198		DATE:
WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167			REV. NO	DESCRIPTION	DATE
			1	OLD 20-001	08/03/20
			2		
			3		
			4		
			20-226		
			DRAWING No.		
			SHEET 29 OF 33		

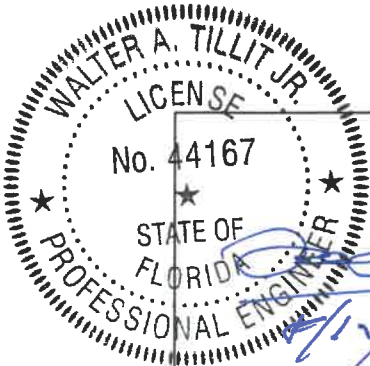
TYPICAL & HEAVY SYSTEMS
SCHEDULE #3: VALID FOR INSTALLATIONS PER SHEETS 7, 8, 9, 10 (AS APPLICABLE)

MAXIMUM # OF ANCHORS "n" AT EA. OF TWO CLUSTERS AT HEAD OR SILL FOR SINGLE AND DOUBLE VENT CASEMENT WINDOWS WHEN JAMBS ARE NOT ATTACHED TO WALL

SUBSTRATE	ANCHOR TYPE	MAX. ASD DESIGN PRESSURE RATING (psf.)	MAX. FRAME WIDTH ● SINGLE VENT WINDOW	MAX. FRAME WIDTH ● DOUBLE VENT WINDOW	MAX. FRAME HEIGHT	"n"
POURED CONCRETE f'c=3000psi	⑫ OR ⑫A	+72.0, -72.0	42"	84"	74"	3
		+75.0, -75.0 TO +80.0, -80.0	42"	84"	55"	2
			40"	80"	58"	2
			37"	74"	63"	2
		+85.0, -85.0 TO +115.0, -115.0	42"	84"	55"	3
			40"	80"	58"	3
			37"	74"	63"	3
		+120.0, -120.0	37"	74"	63"	3
ALUMINUM OR STEEL	⑬	+72.0, -72.0	42"	84"	74"	2
		+75.0, -75.0 TO +95.0, -95.0	42"	84"	55"	2
			40"	80"	58"	2
			37"	74"	63"	2
		+100.0, -100.0 TO +115.0, -115.0	42"	84"	55"	3
			40"	80"	58"	3
			37"	74"	63"	3
		+120.0, -120.0	37"	74"	63"	3

SCHEDULE #3 (CONTINUED)

SUBSTRATE	ANCHOR TYPE	MAX. ASD DESIGN PRESSURE RATING (psf.)	MAX. FRAME WIDTH ● SINGLE VENT WINDOW	MAX. FRAME WIDTH ● DOUBLE VENT WINDOW	MAX. FRAME HEIGHT	"n"
CONCRETE BLOCK	⑫ OR ⑫A	+72.0, -72.0	42"	84"	74"	3
		+75.0, -75.0 TO +100.0, -100.0	42"	84"	55"	3
			40"	80"	58"	3
			37"	74"	63"	3
		+105.0, -105.0 TO +115.0, -115.0	42"	84"	55"	4
			40"	80"	58"	4
			37"	74"	63"	4
		+120.0, -120.0	37"	74"	63"	4
WOOD	⑫ OR ⑫A	+72.0, -72.0	42"	84"	74"	3
		+75.0, -75.0 TO +80.0, -80.0	42"	84"	55"	2
			40"	80"	58"	2
			37"	74"	63"	2
		+85.0, -85.0 TO +115.0, -115.0	42"	84"	55"	3
			40"	80"	58"	3
			37"	74"	63"	3
		+120.0, -120.0	37"	74"	63"	3



P.E. SEAL/SIGNATURE/DATE

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TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33186
Phone : (305)871-1530 . Fax : (305)871-1531
CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

SERIES VPF 8000 OUTSWING ALUMINUM CASEMENT WINDOW-LMI (TYPICAL & HEAVY SYSTEMS)

ALUMINA DISTRIBUTION CENTER
15002 N.W. 107 AVENUE SUITE # 1
HIALEAH GARDENS, FL 33018
PHONE: (305) 444-1198

F.P.
DRAWN BY:

08/03/2020
DATE:

20-226
DRAWING No.

SHEET 30 OF 33

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-001	08/03/20	3		
2			4		

TYPICAL & HEAVY SYSTEMS					
SCHEDULE #4: VALID FOR INSTALLATIONS PER SHEET 11					
MAXIMUM # OF ANCHORS "n" AT EA. OF TWO CLUSTERS AT HEAD OR SILL FOR COMBINATION OF SINGLE VENT CASEMENT WINDOWS WHEN JAMBS ARE NOT ATTACHED TO WALL EXCEPT AT HORIZONTAL CENTER POST ③					
SUBSTRATE	ANCHOR TYPE	MAX. ASD DESIGN PRESSURE RATING (psf.)	MAX. FRAME WIDTH ● SINGLE VENT WINDOW	MAX. FRAME HEIGHT	"n"
POURED CONCRETE f'c=3000psi	⑫ OR ⑫A	+72.0, -72.0	42"	74"	3
		+75.0, -75.0 TO +80.0, -80.0	42"	55"	2
			40"	58"	2
			37"	63"	2
		+85.0, -85.0 TO +115.0, -115.0	42"	55"	3
			40"	58"	3
			37"	63"	3
		+120.0, -120.0	37"	63"	3
ALUMINUM OR STEEL	⑬	+72.0, -72.0	42"	74"	2
		+75.0, -75.0 TO +95.0, -95.0	42"	55"	2
			40"	58"	2
			37"	63"	2
		+100.0, -100.0 TO +115.0, -115.0	42"	55"	3
			40"	58"	3
			37"	63"	3
		+120.0, -120.0	37"	63"	3

SCHEDULE #4 (CONTINUED)					
SUBSTRATE	ANCHOR TYPE	MAX. ASD DESIGN PRESSURE RATING (psf.)	MAX. FRAME WIDTH ● SINGLE VENT WINDOW	MAX. FRAME HEIGHT	"n"
CONCRETE BLOCK	⑫ OR ⑫A	+72.0, -72.0	42"	74"	3
		+75.0, -75.0 TO +100.0, -100.0	42"	55"	3
			40"	58"	3
			37"	63"	3
		+105.0, -105.0 TO +115.0, -115.0	42"	55"	4
			40"	58"	4
			37"	63"	4
		+120.0, -120.0	37"	63"	4
WOOD	⑫ OR ⑫A	+72.0, -72.0	42"	74"	3
		+75.0, -75.0 TO +80.0, -80.0	42"	55"	2
			40"	58"	2
			37"	63"	2
		+85.0, -85.0 TO +115.0, -115.0	42"	55"	3
			40"	58"	3
			37"	63"	3
		+120.0, -120.0	37"	63"	3

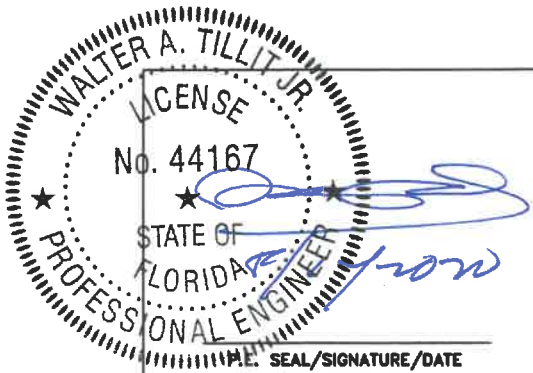


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©2020 TILTECO, INC.			SERIES VPF 8000 OUTSWING ALUMINUM CASEMENT WINDOW-LMI (TYPICAL & HEAVY SYSTEMS)		
TILTECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 . Fax : (305)871-1531 CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167			ALUMINA DISTRIBUTION CENTER 15002 N.W. 107 AVENUE SUITE # 1 HIALEAH GARDENS, FL 33018 PHONE: (305) 444-1198		
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-001	06/03/20	3		
2			4		
F.P. DRAWN BY: 08/03/2020 DATE: 20-226 DRAWING No.					SHEET 31 OF 33

TYPICAL & HEAVY SYSTEMS					
SCHEDULE #5: VALID FOR INSTALLATIONS PER SHEETS 6, 7, 8, 9, 10 (AS APPLICABLE)					
MAXIMUM # OF ANCHORS "n" AT CLUSTER AT HEAD OR SILL AT MEETING STILES* FOR DOUBLE CASEMENT WINDOWS					
SUBSTRATE	ANCHOR TYPE	MAX. ASD DESIGN PRESSURE RATING (psf.)	MAX. FRAME WIDTH ● DOUBLE VENT WINDOW	MAX. FRAME HEIGHT	"n"
POURED CONCRETE f'c=3000psi	⑫ OR ⑫A	+72.0, -72.0	84"	74"	6
		+75.0, -75.0 TO +80.0, -80.0	84"	55"	4
			80"	58"	4
			74"	63"	4
		+85.0, -85.0 TO +115.0, -115.0	84"	55"	6
			80"	58"	6
			74"	63"	6
		+120.0, -120.0	74"	63"	6
ALUMINUM OR STEEL	⑬	+72.0, -72.0	84"	74"	4
		+75.0, -75.0 TO +95.0, -95.0	84"	55"	4
			80"	58"	4
			74"	63"	4
		+100.0, -100.0 TO +115.0, -115.0	84"	55"	6
			80"	58"	6
			74"	63"	6
		+120.0, -120.0	74"	63"	6

SCHEDULE #5 (CONTINUED)					
SUBSTRATE	ANCHOR TYPE	MAX. ASD DESIGN PRESSURE RATING (psf.)	MAX. FRAME WIDTH ● DOUBLE VENT WINDOW	MAX. FRAME HEIGHT	"n"
CONCRETE BLOCK	⑫ OR ⑫A	+72.0, -72.0	84"	74"	6
		+75.0, -75.0 TO +100.0, -100.0	84"	55"	6
			80"	58"	6
			74"	63"	6
		+105.0, -105.0 TO +115.0, -115.0	84"	55"	8
			80"	58"	8
			74"	63"	8
		+120.0, -120.0	74"	63"	8
WOOD	⑫ OR ⑫A	+72.0, -72.0	84"	74"	6
		+75.0, -75.0 TO +80.0, -80.0	84"	55"	4
			80"	58"	4
			74"	63"	4
		+85.0, -85.0 TO +115.0, -115.0	84"	55"	6
			80"	58"	6
			74"	63"	6
		+120.0, -120.0	74"	63"	6

* TOTAL NUMBER OF ANCHORS "n" SHALL BE UNIFORMLY DISTRIBUTED AT (n/2) ANCHORS AT EITHER SIDE OF MEETING STILES AT HEAD AND ALSO AT SILL



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 TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 - Fax : (305)871-1531 CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167			ALUMINA DISTRIBUTION CENTER 15002 N.W. 107 AVENUE SUITE # 1 HIALEAH GARDENS, FL 33018 PHONE: (305) 444-1198		08/03/2020 DATE:
					20-226 DRAWING No.
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-001	08/03/20	3		
2			4		
					SHEET 32 OF 33

TYPICAL & HEAVY SYSTEMS							
SCHEDULE #6: VALID FOR INSTALLATIONS PER SHEET 11							
MAXIMUM # OF ANCHORS "n" AT CLUSTER AT EA. END OF HORIZONTAL CENTER POST ③ OR ③A AT JAMBS FOR VERTICAL COMBINATION OF SINGLE VENT CASEMENT, AWNING & FIXED WINDOWS							
SUBSTRATE	ANCHOR TYPE	MAX. ASD DESIGN PRESSURE RATING (psf.)	MAX. FRAME WIDTH • SINGLE VENT WINDOW	MAX. FRAME HEIGHT	"n"		
POURED CONCRETE f'c=3000psi	⑫ OR ⑫A	+72.0, -72.0	42"	74"	6		
		+75.0, -75.0 TO +80.0, -80.0	42"	55"	4		
			40"	58"	4		
			37"	63"	4		
		+85.0, -85.0 TO +115.0, -115.0	42"	55"	6		
			40"	58"	6		
			37"	63"	6		
		+120.0, -120.0	37"	63"	6		
		ALUMINUM OR STEEL	⑬	+72.0, -72.0	42"	74"	4
				+75.0, -75.0 TO +95.0, -95.0	42"	55"	4
40"	58"				4		
37"	63"				4		
+100.0, -100.0 TO +115.0, -115.0	42"			55"	6		
	40"			58"	6		
	37"			63"	6		
+120.0, -120.0	37"			63"	6		

SCHEDULE #6 (CONTINUED)							
SUBSTRATE	ANCHOR TYPE	MAX. ASD DESIGN PRESSURE RATING (psf.)	MAX. FRAME WIDTH • SINGLE VENT WINDOW	MAX. FRAME HEIGHT	"n"		
CONCRETE BLOCK	⓫ OR ⓫A	+72.0, -72.0	42"	74"	6		
		+75.0, -75.0 TO +100.0, -100.0	42"	55"	6		
			40"	58"	6		
			37"	63"	6		
		+105.0, -105.0 TO +115.0, -115.0	42"	55"	8		
			40"	58"	8		
			37"	63"	8		
		+120.0, -120.0	37"	63"	8		
		WOOD	⓫ OR ⓫A	+72.0, -72.0	42"	74"	6
				+75.0, -75.0 TO +80.0, -80.0	42"	55"	4
40"	58"				4		
37"	63"				4		
+85.0, -85.0 TO +115.0, -115.0	42"			55"	6		
	40"			58"	6		
	37"			63"	6		
+120.0, -120.0	37"			63"	6		

* TOTAL NUMBER OF ANCHORS "n" SHALL BE UNIFORMLY DISTRIBUTED AT (n/2) ANCHORS ABOVE & BELOW OF HORIZONTAL CENTER POST ③ OR ③A AT JAMBS



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 TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 39th, St., Ste. 305, VIRGINIA GARDENS, FL 33186 Phone : (305)871-1530 • Fax : (305)871-1531 CA-0006719 WALTER A. TILLIT Jr., P.E. FLORIDA Lic. # 44167			ALUMINA DISTRIBUTION CENTER 15002 N.W. 107 AVENUE SUITE # 1 HIALEAH GARDENS, FL 33018 PHONE: (305) 444-1198		08/03/2020 DATE:
			20-226 DRAWING No.		
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-001	08/03/20	3		
2			4		
SHEET 33 OF 33					