

PRODUCT APPROVAL FOR PERFORMANCE STOREFRONT SYSTEM FOR USE IN HURRICANE ZONES REQUIRING
LARGE & SMALL MISSILE LAMINATED & INSULATED GLASS . (WET GLAZED)

GENERAL NOTES:

1. PERFORMANCE STOREFRONT SYSTEM LARGE & SMALL MISSILE IMPACT LAMINATED AND INSULATED GLASS, SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE **2020 (7th EDITION)** OF THE FLORIDA BUILDING CODE. PRODUCT MAY BE INSTALLED WITHIN HIGH VELOCITY HURRICANE ZONES (HVHZ) AND OUT (NHVHZ).

DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTIONS **1620** (HVHZ) & **1609** (NHVHZ) OF THE ABOVE MENTIONED CODE, FOR A BASIC WIND SPEED AS REQUIRED BY THE JURISDICTION WHERE THIS PRODUCT TO BE INSTALLED FOR A DIRECTIONALITY FACTOR $K_d=0.85$, USING ASCE 7-16 & SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATING INDICATED ON NOTE 2.

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.

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 TO WOOD HAS BEEN DETERMINED IN ACCORDANCE WITH N.D.S. 2018.

THIS PRODUCT'S ADEQUACY FOR IMPACT AND CYCLIC RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTIONS **1626**, **1609.1.2** & **AAMA 501** (PER SECTION 2411.3.2.1.1) OF THE ABOVE MENTIONED CODE AS PER PROTOCOLS TAS-201, TAS-202, TAS-203, PER FENESTATION TESTING. LABORATORY REPORT # 10553 AND AS PER SUBMITTED STRUCTURAL CALCULATIONS, PERFORMED AS PER SECTIONS **1616** & **1604** OF THE FLORIDA BUILDING CODE.

2. **MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR THIS PRODUCT SHALL BE AS SHOWN ON SHEETS 6, 7, 8, 9, 9A AND 10, 10A.**

3. **THIS PRODUCT WILL NOT REQUIRE A HURRICANE PROTECTION DEVICE.**

4. **THIS PRODUCT IS APPROVED FOR AIR/WATER INFILTRATION FOR UP TO A POSITIVE A.S.D LOAD OF 90.0 psf.**

5. PRODUCT COMPLIES WITH SECTION 2406 OF THE FLORIDA BUILDING CODE.

6. PROVIDE MAX. LOAD BEARING SHIM (TYP.), WHEN ALLOWED BY THIS DRAWING. (SEE SHEETS 9, 9A, 10 & 10A).

7. 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 SECTIONS 2411.3.3.3 & 2411.3.3.4. OF THE 2020 (7th EDITION) OF THE FLORIDA BUILDING CODE.

7.1 2X WOOD BUCKS MUST BE PROPERLY ANCHORED TO EXISTING STRUCTURE TO TRANSFER LOADS TO IT. ANCHORAGE IS INDEPENDENT OF PRODUCT'S FRAME ANCHORAGE. PRODUCT'S FRAME MUST BE SEPARATELY ANCHORED TO 2X WOOD BUCK FOLLOWING DETAILS ON THIS DRAWING.

7.2 1X WOOD BUCK (OR ANY WOOD BUCK LESS THAN 2X) MUST BE PROPERLY ANCHORED TO EXISTING STRUCTURE TO TRANSFER LOADS TO IT. PRODUCT'S FRAME ANCHOR SHALL BE USED TO ATTACH 1X WOOD BUCK TO EXISTING STRUCTURE BY DRIVING ANCHOR THRU **BOTH PRODUCT'S FRAME & 1X WOOD BUCK** INTO EXISTING STRUCTURE W/ PROPER EMBEDMENT AND EDGE DISTANCE AS SHOWN ON THIS DRAWING.

7.3 PRODUCT'S FRAME MAY BE DIRECTLY CONNECTED TO EXISTING STRUCTURE WITH NO NEED OF WOOD BUCK WHEN MASONRY OPENING IS NOT LARGER THAN ACTUAL DOOR OVERALL DIMENSIONS, HOWEVER, SHIMS (SEE NOTE 6) MAY BE ALLOWED AT PRODUCT'S FRAME ANCHOR LOCATION IF NEEDED.

8. REMAINING COMPONENTS FOR THIS PRODUCT SHALL BE AS INDICATED ON BILL OF MATERIALS, SHEET 3 OF THIS DRAWING.

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

10. SHOP DRAWINGS PREPARED BASED ON THIS APPROVAL AND TAKING INTO ACCOUNT THE SPECIFIC JOB CONDITIONS, SHALL BE SUBMITTED TO THE BUILDING OFFICIAL AS PART OF THE PERMIT DOCUMENTS.

11. STRUCTURAL SUBSTRATES NOTED ON THIS DRAWING AS EXISTING STEEL, POURED CONCRETE, GROUT FILLED CONCRETE BLOCK AND WOOD (BY OTHERS) MUST WITHSTAND THE LOADS IMPOSED BY THIS PRODUCT.

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) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS DELEGATED ENGINEER TO THE P.E.D. ENGINEER, SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.

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

13. PRODUCT MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION AT PRODUCT IN ACCORDANCE WITH SECTION 1709.5 OF THE FLORIDA BUILDING CODE. ONE LABEL SHALL BE PLACED FOR EVERY OPENING.

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INSTRUCTIONS:

STEP 1: DETERMINE A.S.D. DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BUILDING HEIGHT, WIND ZONE, USING APPLICABLE ASCE 7 STANDARD.

STEP 2: GO TO SCHEDULE ON SHEET 6 TO DETERMINE MAXIMUM A.S.D. DESIGN PRESSURE RATING (psf) OF DESIRED GLASS SIZE BASED ON GLASS PANEL DIMENSIONS AND DESIGN WIND LOAD PER STEP 1.

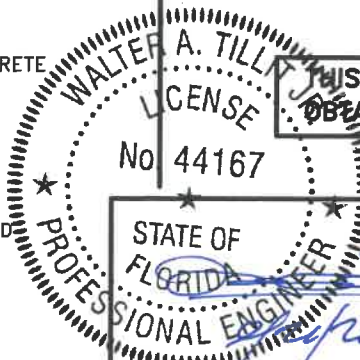
STEP 3: DETERMINE MAXIMUM MULLION SPAN "L"(FT) FOR A GIVEN MULLION EFFECTIVE SPACING "b", ON SCHEDULE ON SHEETS 7 & 8, AND SELECT ANCHOR OPTION W/ A.S.D. DESIGN PRESSURE RATING EQUAL OR GREATER THAN DESIGN LOAD SPECIFIED IN STEP 1 USING SCHEDULES ON SHEETS 9, 9A, 10, 10A & 11 PER STEP 4.

STEP 4: USE SCHEDULES ON SHEET 11, TO SELECT ANCHOR FOR OPTION W/ JAMB ANCHORAGE, OR SCHEDULES ON SHEET 7 FOR JAMB MULLIONS W/O ANCHORAGE, WITH A.S.D. DESIGN PRESSURE RATING EQUAL OR GREATER THAN A.S.D. DESIGN LOAD SPECIFIED IN STEP 1.

STEP 5: THE LOWEST VALUE OF A.S.D. DESIGN PRESSURE RATING RESULTING FROM STEPS 2, 3, 4 AND 5 SHALL APPLY TO THE ENTIRE SYSTEM.

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

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



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PROTECT SERIES PERFORMANCE STOREFRONT
SYSTEM WITH LARGE AND SMALL MISSILE
LAMINATED AND INSULATED GLASS

F.P.
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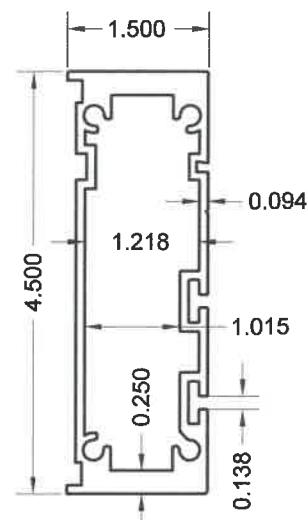
08/03/2020
DATE

20-225
DRAWING No

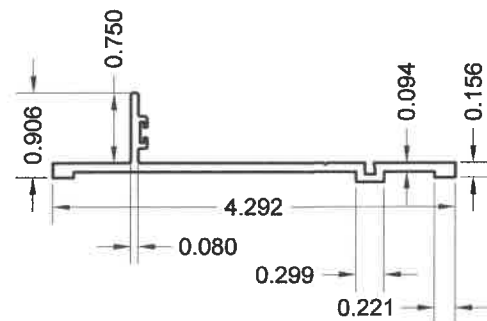
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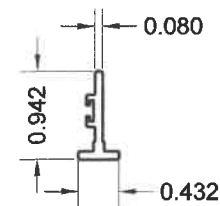
SHEET 1 OF 21



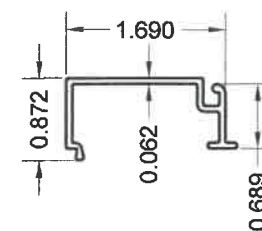
1 FRAME HEAD, JAMB,
SILL & MULLION
6063-T6 ALLOY



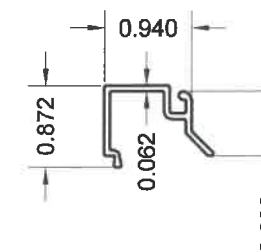
2 MULLION INSERT
6063-T6 ALLOY



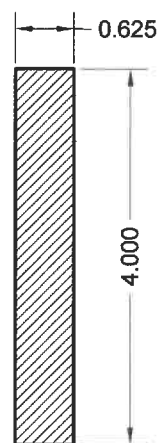
10 GLAZING ADAPTER
FIXED PANEL
6063-T6 ALLOY



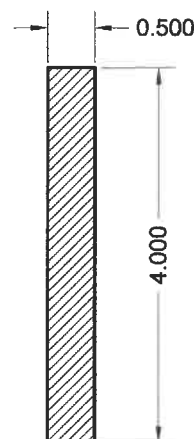
11 FIXED PANEL
GLAZING BEAD
LAMINATED GLASS
6063-T6 ALLOY



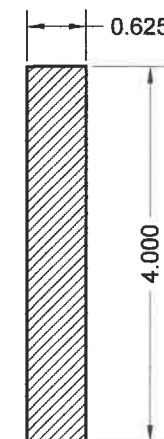
12 FIXED PANEL
GLAZING STOP
INSULATED GLASS
6063-T6 ALLOY



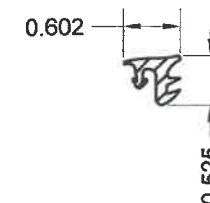
17 5/8" ALUMINUM
REINFORCEMENT
6063-T6 ALLOY



18 1/2" ALUMINUM
REINFORCEMENT
6063-T6 ALLOY



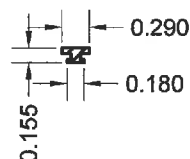
18A 5/8" STEEL
REINFORCEMENT
(EXTENDED PROTOCOL)



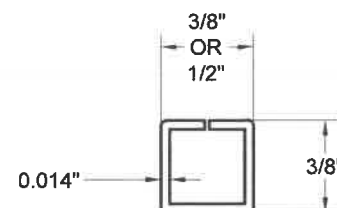
19 WEDGE GASKET
EPDM



20 SOLID RUBBER
GASKET
NEOPRENE / NYLON



21 GLAZING GASKET
TPE



41 INSULATED GLASS
UNIT SPACER
NTS

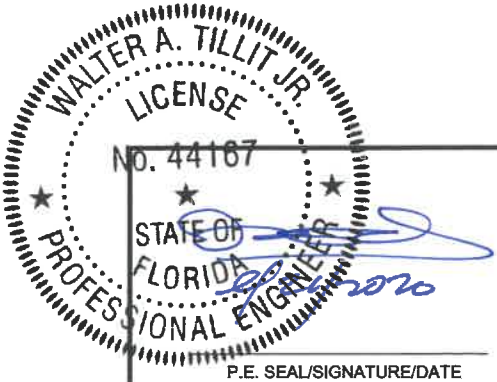
COMPONENTS

SCALE 1/2"=1"



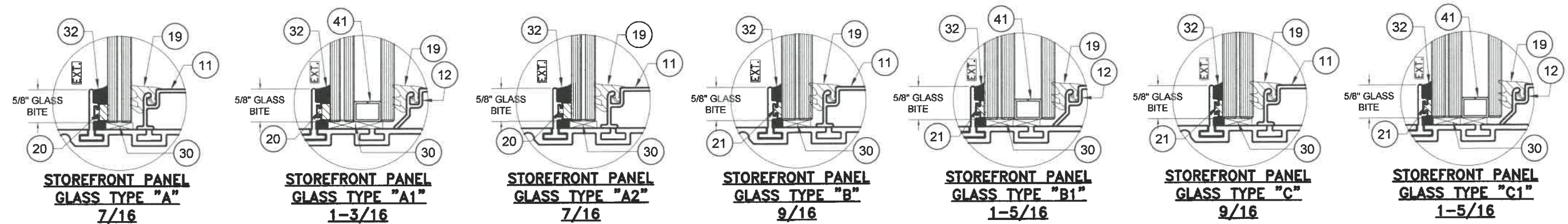
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1	OLD 19-029	08/03/20	2	-	-
			F.P. DRAWN BY: 08/03/2020 DATE 20-225 DRAWING No SHEET 2 OF 21		

BILL OF MATERIALS (SEE GLASS ON SHEET 4)			
COMPONENT #	DESCRIPTION	DIMENSIONS/REMARKS	MATERIAL
①	FRAME HEAD, JAMB, SILL & MULLION	SEE SHEET 2	6063-T6
②	MULLION INSERT	SEE SHEET 2	6063-T6
⑩	GLAZING ADAPTER FIXED PANEL	SEE SHEET 2	6063-T6
⑪	FIXED PANEL GLAZING LAMINATED GLASS	SEE SHEET 2	6063-T6
⑫	FIXED PANEL GLAZING INSULATED GLASS	SEE SHEET 2	6063-T6
⑰	5/8" ALUMINUM REINFORCEMENT	SEE SHEET 2	6063-T6
⑱	1/2" ALUMINUM REINFORCEMENT	SEE SHEET 2	6063-T6
⑱A	5/8" STEEL REINFORCEMENT	SEE SHEET 2	ASTM A-36 ZINC PLATED
⑲	WEDGE GASKET	SEE SHEET 2, 3" LONG, LOCATED @ ③① @ 8" (MIN.) O.C & 18" (MAX.) O.C	EPDM
⑳	SOLID RUBBER GASKET	SEE SHEET 2, 3" LONG, LOCATED @ ③① @ 8" (MIN.) O.C & 18" (MAX.) O.C	NEOPRENE/NYLON
㉑	GLAZING GASKET	SEE SHEET 2	TPE
㉓	#14 x 1/2" HEX HEAD S.S. TEK SCREW	MULLION INSERT CONNECTION (5" start & 9" max o.c)	STEEL
㉔	#14 x 2 1/2" H.H SCREW	FRAME ASSEMBLY	STEEL
③①	SETTING BLOCK	0.122"x0.5" (ULTRAFAB)	E.P.D.M.
③①	FIN SEAL PILE W/ PLASTIC	ULTRAFAB	-
③②	STRUCTURAL SILICONE DOW CORNING 995	ALL AROUND GLASS	SILICONE
③⑦	NON STRUCTURAL SILICONE DOW CORNING CONTRACTORS CONCRETE SEALANT (CCS)	AS SHOWN	SILICONE
④①	INSULATED GLASS UNIT SPACER	SEE SHEET 2	3105-H24 ALUMINUM

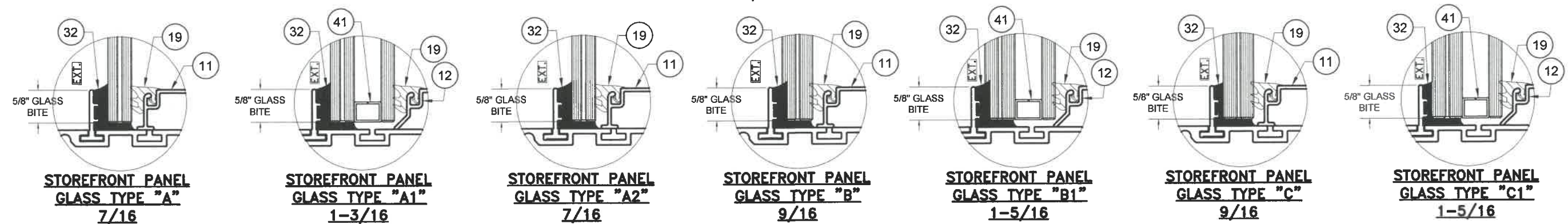


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20-225 DRAWING No			SHEET 3 OF 21		
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 19-029	08/03/20	2	-	-

BILL OF MATERIALS FOR GLASS		
COMPONENT #	DESCRIPTION	MATERIAL
(A)	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
(A1)	1-3/16" NOMINAL INSULATED-LAMINATED GLASS W/ 3/16" H.S. GLASS + 0.090" TROSIFOL PVB INTERLAYER BY KURARAY AMERICA, INC. + 3/16" H.S. GLASS + 1/2" ARGON SPACER + 1/4" TEMPERED GLASS IN BOARD.	GLASS
(A2)	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
(B)	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
(B1)	1 5/16" NOMINAL INSULATED-LAMINATED GLASS W/ 1/4" H.S. GLASS + 0.090" TROSIFOL PVB INTERLAYER BY KURARAY AMERICA, INC. + 1/4" H.S. GLASS + 1/2" ARGON SPACER + 1/4" TEMPERED GLASS IN BOARD.	GLASS
(C)	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
(C1)	1 5/16" NOMINAL INSULATED-LAMINATED GLASS W/ 1/4" H.S. GLASS + 0.090" SENTRYGLAS® INTERLAYER BY KURARAY AMERICA, INC. + 1/4" H.S. GLASS + 1/2" ARGON SPACER + 1/4" TEMPERED GLASS IN BOARD.	GLASS



GLAZING DETAILS AT SETTING BLOCKS AT STOREFRONT
SCALE 1/2"=1"



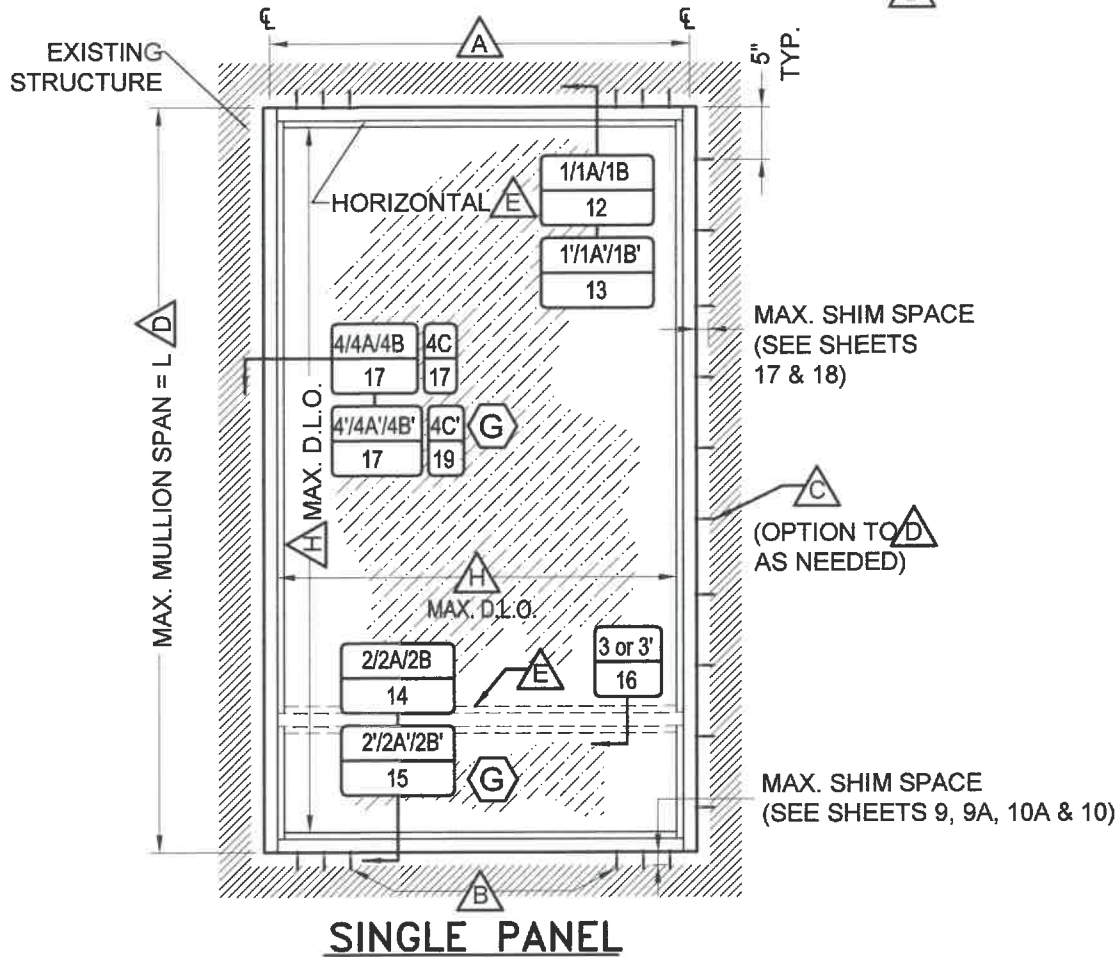
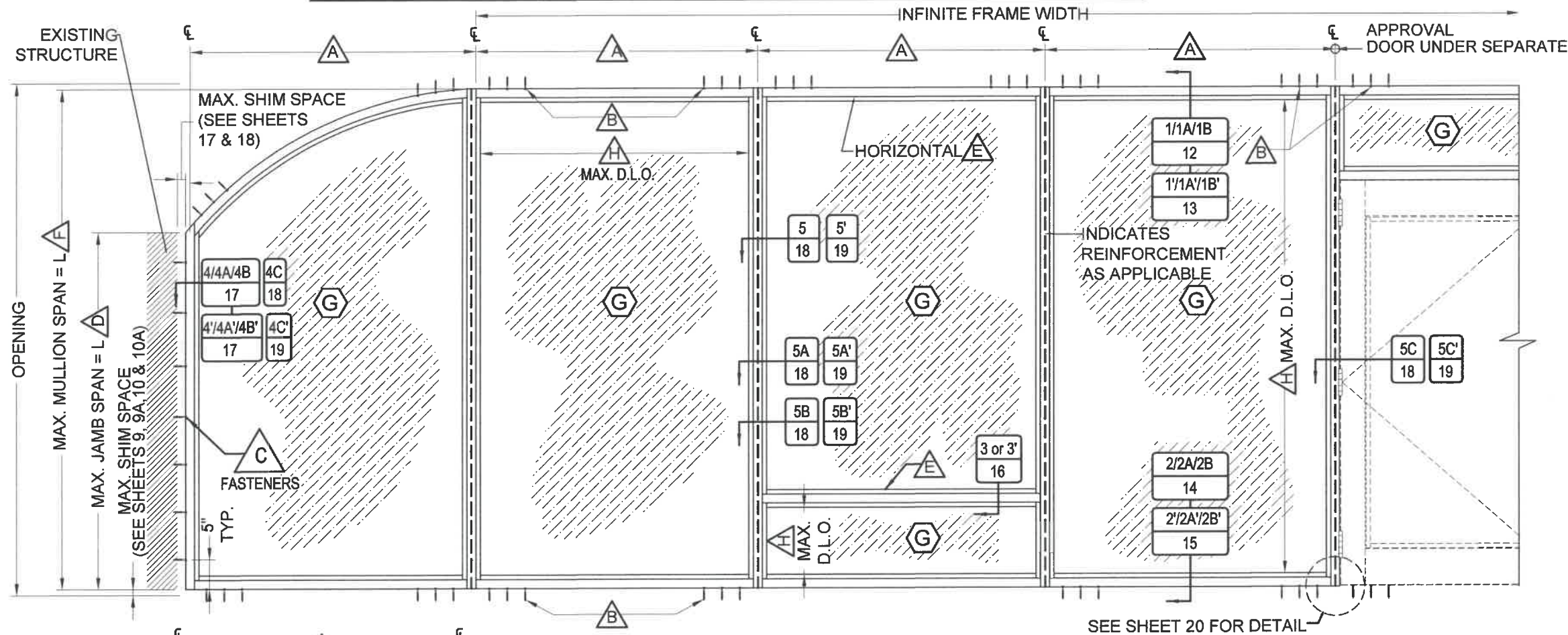
GLAZING DETAILS IN BETWEEN SETTING BLOCKS AT STOREFRONT

SC 2111
WALTER A. TILLIT, JR.
LICENSE
No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER
SEAL/SIGNATURE/DATE

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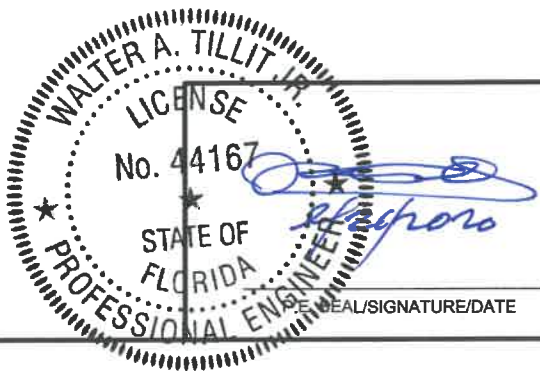
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ALUMINA DISTRIBUTION CENTER
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PHONE: (305) 444-1198
F.P. DRAWN BY:
08/03/2020 DATE
20-225
DRAWING No
SHEET 4 OF 21

ISOMETRIC ELEVATION FOR PERFORMANCE STOREFRONT SYSTEM



FOOT NOTES:

- A MAXIMUM MULLION SPACING IS 5'-0".
- B FOR HEAD AND SILL FASTENERS QUANTITY, TYPES AND SPECS SEE SHEETS 9, 9A, 10 & 10A.
- C SEE SHEET 11 FOR MAXIMUM ANCHOR SPACING FOR JAMB MULLION "A" ATTACHED TO EXISTING STRUCTURE.
- D SEE SHEET 7 FOR MAXIMUM A.S.D DESIGN PRESSURE RATING FOR JAMB MULLION "A" NOT ATTACHED TO EXISTING STRUCTURE.
- E USE OF HORIZONTALS MULLIONS (SEE SECTIONS 3 OR 3'/16) IS LIMITED TO 5'-0" BETWEEN MULLIONS.
- F FOR MAXIMUM MULLION SPAN SEE SHEETS 7 & 8.
- G FOR GLAZING CONFIGURATIONS SEE SHEET 4.
- H FOR MAXIMUM D.L.O. VS A.S.D DESIGN PRESSURE RATING FOR GLASS, SEE SCHEDULE ON SHEET 6.



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PROTECT SERIES PERFORMANCE STOREFRONT SYSTEM WITH LARGE AND SMALL MISSILE LAMINATED AND INSULATED GLASS

ALUMINA DISTRIBUTION CENTER

15002 NW. 107 AVE.
HIALEAH GARDENS, FL. 33018
PHONE: (305) 444-1198

F.P. DRAWN BY:

08/03/2020 DATE

20-225 DRAWING No

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 19-029	08/03/20	2	-	-

SHEET 5 OF 21

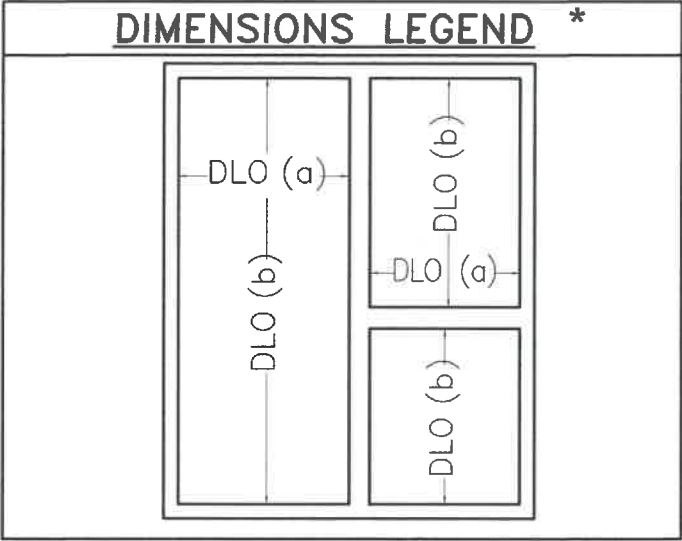
MAXIMUM DESIGN PRESSURE RATING (psf) SCHEDULE FOR A GIVEN GLASS TYPE
AND GLASS D.L.O PANEL DIMENSIONS "a" (in) x "b" (in) (SEE LEGEND)

GLASS TYPE A, & A1 : WET GLAZED		
DIMENSION "a" *	DIMENSION "b" *	MAXIMUM DESIGN PRESSURE RATING(psf)
30"	from 30" to 144"	±66.0
36"	from 36" to 127"	±66.0
42"	from 42" to 109"	±66.0
45"	from 45" to 101.5"	±64.9
48"	from 48" to 95"	±60.8
54"	from 54" to 84.5"	±54.1
56"	from 56" to 81.5"	±52.1
57"	from 57" to 80"	±51.2

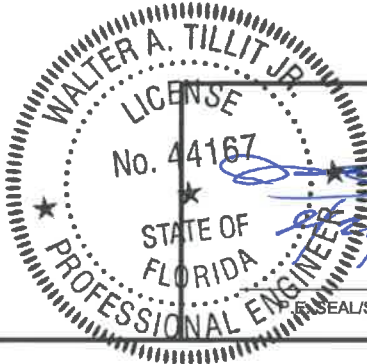
GLASS TYPE A2 : WET GLAZED		
DIMENSION "a" *	DIMENSION "b" *	MAXIMUM DESIGN PRESSURE RATING(psf)
30"	from 30" to 144"	±55.0
36"	from 36" to 144"	±55.0
42"	from 42" to 144"	±55.0
45"	from 45" to 144"	±55.0
48"	from 48" to 144"	±55.0
54"	from 54" to 144"	±55.1
56.25"	from 56.25" to 139.5"	±55.0
57"	from 57" to 137.5"	±54.3

GLASS TYPE B & B1 : WET GLAZED		
DIMENSION "a" *	DIMENSION "b" *	MAXIMUM DESIGN PRESSURE RATING(psf)
30"	from 30" to 119"	±90.0
36"	from 36" to 99"	±90.0
42"	from 42" to 85"	±90.0
45"	from 45" to 79.5"	±90.0
48"	from 48" to 74.5"	±84.4
54"	from 54" to 66"	±75.0
56"	from 56" to 63.5"	±72.3
57"	from 57" to 62.5"	±71.1

GLASS TYPE C & C1 : WET GLAZED		
DIMENSION "a" *	DIMENSION "b" *	MAXIMUM DESIGN PRESSURE RATING(psf)
30"	from 30" to 144"	+90, -180
36"	from 36" to 126"	+90, -180
42"	from 42" to 108"	+90, -180
45"	from 45" to 100.5"	+90, -180
48"	from 48" to 94"	+90, -180
54"	from 54" to 84"	+90, -180
56"	from 56" to 80.5"	+90, -180
57"	from 57" to 79.5"	+90, -180



* SIDE "a" IS ALWAYS EQUAL OR SHORTER THAN "b".
"a", "b" MAY BE ORIENTED IN ANY DIRECTION.



SEAL/SIGNATURE/DATE

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

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

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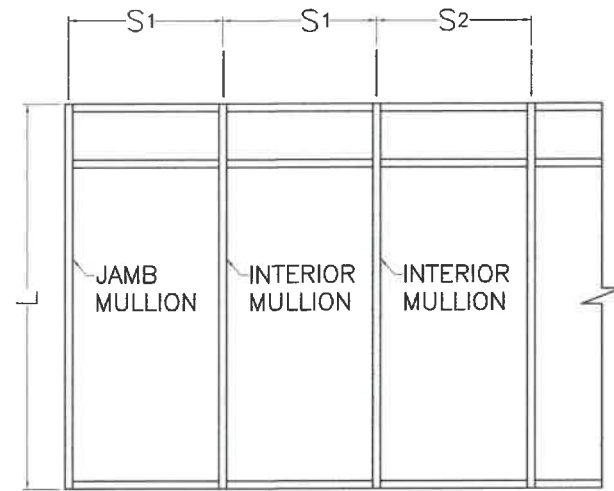
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 19-029	08/03/20	2	-	-

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20-225
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SHEET 6 OF 21



L = MULLION SPAN
 EFFECTIVE SPACING $b = \frac{S_1 + S_2}{2}$ (SEE SCHEDULE,) (FOR INTERIOR MULLION)
 EFFECTIVE SPACING $b = \frac{S_1}{2}$ (SEE SCHEDULE) (FOR JAMB MULLION)

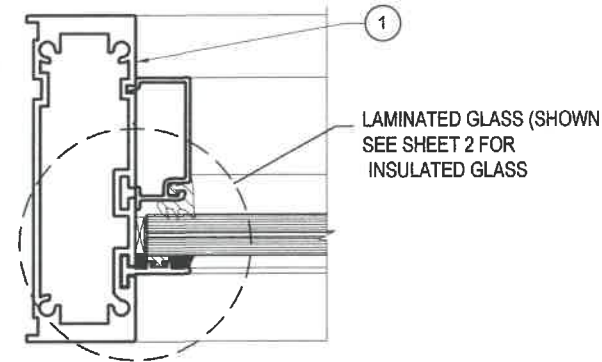
DEFINITIONS

A : UNREINFORCED JAMB MULLION
 (SEE SHEET 5 FOR APPLICABLE SECTIONS)

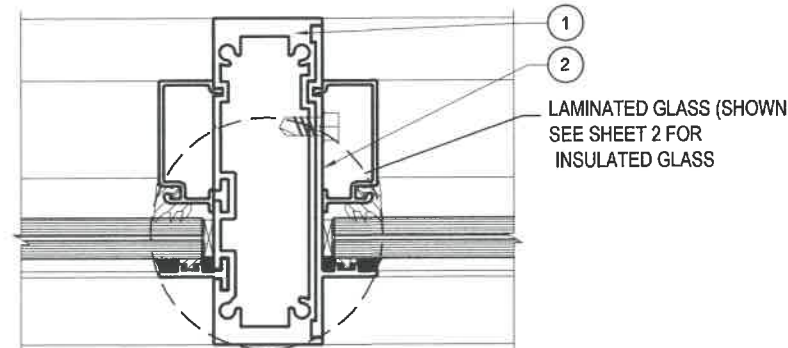
A1 : UNREINFORCED INTERIOR MULLION
 (SEE SHEET 5 FOR APPLICABLE SECTIONS)

B : REINFORCED INTERIOR MULLION
 (SEE SHEET 5 FOR APPLICABLE SECTIONS)

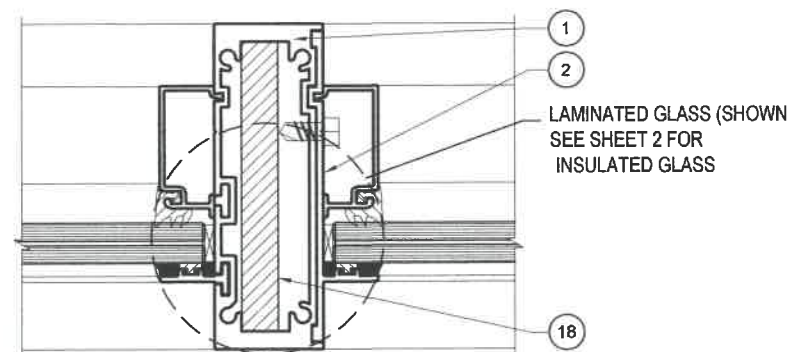
A JAMB MULLION ①
 AIR/WATER INFILTRATION IS 13.5 psf



A1 INTERIOR MULLION ①+②
 AIR/WATER INFILTRATION IS 13.5 psf



B INTERIOR MULLION ①+②+⑬
 AIR/WATER INFILTRATION IS 13.5 psf

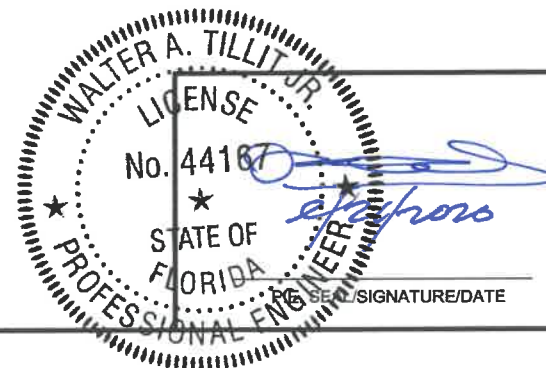


MAXIMUM MULLION SPAN "L"(FT) SCHEDULE FOR A GIVEN DESIGN PRESSURE RATING AND A GIVEN MULLION EFFECTIVE SPACING "b"

MAXIMUM DESIGN PRESSURE RATING (psf)	EFFECTIVE SPACING FOR A "b" (Ft-in)	EFFECTIVE SPACING FOR A1 "b" (Ft-in)	MAX. SPAN A "L" (Ft-in)	MAX. SPAN A1 "L" (Ft-in)	MAX. SPAN B "L" (Ft-in)
47.8	1'-6" 2'-0" 2'-6"	3'-0" 4'-0" 5'-0"	11'-8" 10'-7" 9'-6"	9'-0" 9'-0" 9'-0"	11'-8" 10'-1" 9'-0"
50.0	1'-6" 2'-0" 2'-6"	3'-0" 4'-0" 5'-0"	11'-8" 10'-4" 9'-3"	9'-0" 9'-0" 9'-0"	11'-5" 9'-10" 8'-10"
55.0	1'-6" 2'-0" 2'-6"	3'-0" 4'-0" 5'-0"	11'-4" 9'-10" 8'-7"	9'-0" 9'-0" 8'-10"	10'-10" 9'-5" 8'-1"
60.0	1'-6" 2'-0" 2'-6"	3'-0" 4'-0" 5'-0"	10'-11" 9'-5" 8'-5"	9'-0" 9'-0" 7'-11"	10'-5" 9'-1" 8'-1"
65.0	1'-6" 2'-0" 2'-6"	3'-0" 4'-0" 5'-0"	10'-6" 9'-1" 7'-4"	9'-0" 9'-0" 7'-4"	10'-0" 8'-8" 7'-9"
70.0	1'-6" 2'-0" 2'-6"	3'-0" 4'-0" 5'-0"	10'-1" 8'-6" 6'-9"	9'-0"* 9'-0"* 7'-2"*	9'-8" 8'-4" 7'-2"
75.0	1'-6" 2'-0" 2'-6"	3'-0" 4'-0" 5'-0"	9'-9" 7'-11" 6'-4"	-	9'-4" 8'-1" 6'-9"
80.0	1'-6" 2'-0" 2'-6"	3'-0" 4'-0" 5'-0"	9'-5" 7'-5" 6'-0"	-	9'-0" 7'-10" 6'-4"
85.0	1'-6" 2'-0" 2'-6"	3'-0" 4'-0" 5'-0"	9'-4" 7'-0" 5'-7"	-	8'-9" 7'-5" 5'-11"
90.0	1'-6" 2'-0" 2'-6"	3'-0" 4'-0" 5'-0"	8'-9" 6'-7" 5'-3"	-	8'-7" 6'-10" 5'-7"

* ONLY VALID FOR UP TO 66 psf.

MAX. POSITIVE A.S.D DESIGN PRESSURE RATING FOR ANY CASE IS 90.0 psf



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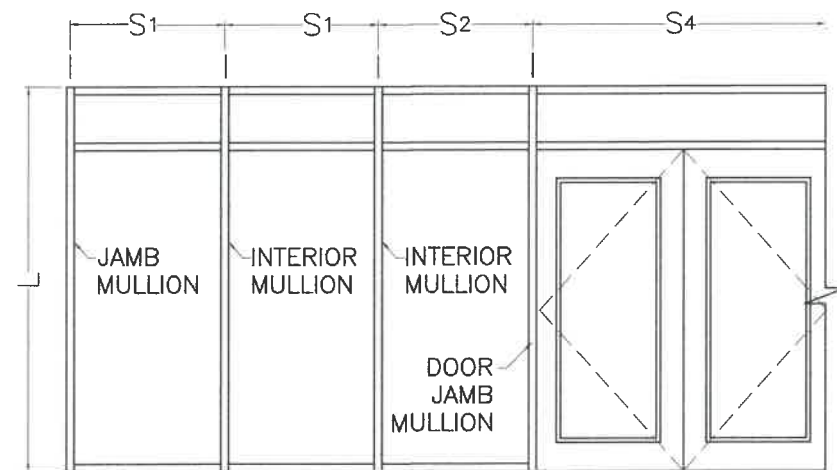
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SHEET 7 OF 21

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1	OLD 19-029	08/03/20	2	-	-



ISOMETRIC

L = MULLION SPAN

EFFECTIVE SPACING $b = \frac{S_1 + S_2}{2}$ (SEE SCHEDULE,
(FOR INTERIOR MULLION)

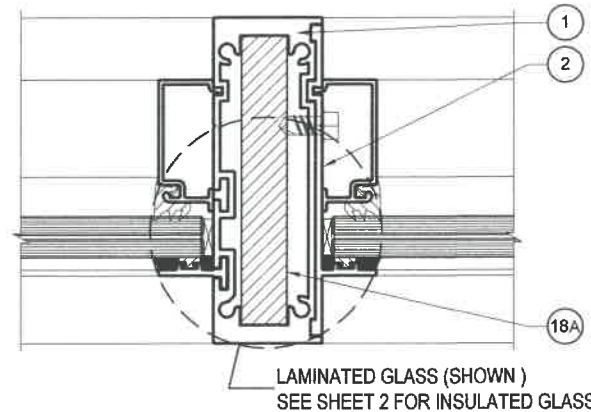
EFFECTIVE SPACING $b = \frac{S_2 + S_4}{2}$ (SEE SCHEDULE)
(FOR DOOR JAMB MULLION)

DEFINITIONS

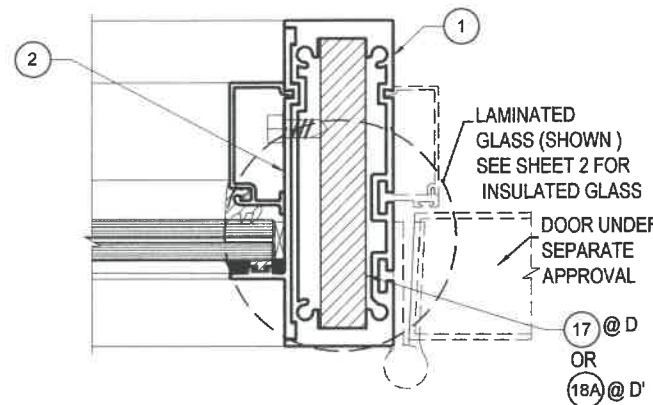
C : REINFORCED INTERIOR MULLION
(SEE SHEET 5 FOR APPLICABLE SECTIONS)

D,D' : REINFORCED DOOR JAMB OR INTERIOR MULLIONS
(SEE SHEET 5 FOR APPLICABLE SECTIONS)

C INTERIOR MULLION (1) + (18A)
AIR/WATER INFILTRATION IS 13.5 psf



D & D' INTERIOR MULLION OR DOOR JAMB
MULLION D W/((1)+(2)+(17)) OR
INTERIOR MULLION OR DOOR JAMB
MULLION D' W/((1)+(2)+(18A))
AIR/WATER INFILTRATION IS 13.5 psf

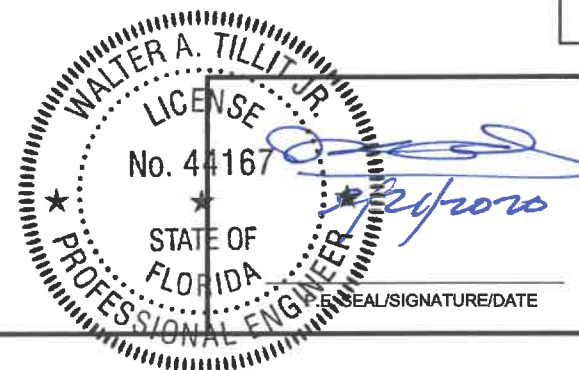


MAXIMUM MULLION SPAN "L"(FT) SCHEDULE FOR A GIVEN DESIGN PRESSURE RATING AND A GIVEN MULLION EFFECTIVE SPACING "b" *

MAXIMUM ASD DESIGN PRESSURE RATING (psf)	EFFECTIVE SPACING FOR C, D & D' "b" (Ft-in)		MAX. SPAN C & D' "L" (Ft-in)		MAX. SPAN D "L" (Ft-in)
	C	D&D'	C	D'	D
	C	D&D'	C	D'	D
47.8	3'-0"	3'-0"	12'-0"	12'-0"	11'-8"
	4'-0"	4'-0"	12'-0"	12'-0"	11'-2"
	5'-0"	5'-0"	12'-0"	12'-0"	10'-5"
	-	6'-0"	-	11'-9"	9'-10"
50.0	3'-0"	3'-0"	12'-0"	12'-0"	11'-8"
	4'-0"	4'-0"	12'-0"	12'-0"	11'-1"
	5'-0"	5'-0"	12'-0"	12'-0"	10'-3"
	-	6'-0"	-	11'-7"	9'-9"
55.0	3'-0"	3'-0"	12'-0"	12'-0"	11'-8"
	4'-0"	4'-0"	12'-0"	12'-0"	10'-9"
	5'-0"	5'-0"	11'-10"	11'-10"	9'-6"
	-	6'-0"	-	11'-3"	9'-5"
60.0	3'-0"	3'-0"	12'-0"	12'-0"	11'-8"
	4'-0"	4'-0"	12'-0"	12'-0"	10'-5"
	5'-0"	5'-0"	11'-6"	11'-6"	9'-8"
	-	6'-0"	-	10'-4"	9'-2"
65.0	3'-0"	3'-0"	12'-0"	12'-0"	11'-2"
	4'-0"	4'-0"	12'-0"	12'-0"	10'-2"
	5'-0"	5'-0"	11'-3"	11'-3"	9'-5"
	-	6'-0"	-	10'-7"	8'-11"
70.0	3'-0"	3'-0"	12'-0"	12'-0"	10'-10"
	4'-0"	4'-0"	11'-9"	11'-9"	9'-10"
	5'-0"	5'-0"	10'-11"	10'-11"	9'-2"
	-	6'-0"	-	10'-4"	8'-8"
75.0	3'-0"	3'-0"	12'-0"	12'-0"	10'-7"
	4'-0"	4'-0"	11'-6"	11'-6"	9'-8"
	5'-0"	5'-0"	10'-8"	10'-8"	9'-0"
	-	6'-0"	-	10'-2"	8'-6"
80.0	3'-0"	3'-0"	12'-0"	12'-0"	10'-5"
	4'-0"	4'-0"	11'-3"	11'-3"	9'-6"
	5'-0"	5'-0"	10'-6"	10'-6"	8'-8"
	-	6'-0"	-	9'-10"	8'-4"
85.0	3'-0"	3'-0"	12'-0"	12'-0"	10'-2"
	4'-0"	4'-0"	11'-4"	11'-4"	9'-5"
	5'-0"	5'-0"	10'-2"	10'-2"	8'-5"
	-	6'-0"	-	9'-4"	8'-2"
90.0	3'-0"	3'-0"	11'-11"	11'-11"	10'-0"
	4'-0"	4'-0"	10'-10"	10'-10"	9'-1"
	5'-0"	5'-0"	9'-11"	9'-11"	8'-2"
	-	6'-0"	-	9'-0"	8'-0"
95.0	3'-0"	3'-0"	11'-9"	11'-9"	-
	4'-0"	4'-0"	10'-6"	10'-6"	-
	5'-0"	5'-0"	9'-8"	9'-8"	-
	-	6'-0"	-	8'-10"	-
100.0	3'-0"	3'-0"	11'-7"	11'-7"	-
	4'-0"	4'-0"	10'-6"	10'-6"	-
	5'-0"	5'-0"	9'-5"	9'-5"	-
	-	6'-0"	-	8'-7"	-
105.0	3'-0"	3'-0"	11'-5"	11'-5"	-
	4'-0"	4'-0"	10'-3"	10'-3"	-
	5'-0"	5'-0"	9'-2"	9'-2"	-
	-	6'-0"	-	8'-4"	-
110.0	3'-0"	3'-0"	11'-2"	11'-2"	-
	4'-0"	4'-0"	10'-0"	10'-0"	-
	5'-0"	5'-0"	9'-0"	9'-0"	-
	-	6'-0"	-	8'-2"	-
115.0	3'-0"	3'-0"	11'-0"	11'-0"	-
	4'-0"	4'-0"	9'-9"	9'-9"	-
	5'-0"	5'-0"	8'-9"	8'-9"	-
	-	6'-0"	-	8'-0"	-

* MAX. POSITIVE A.S.D DESIGN PRESSURE
RATING FOR ANY CASE IS 90.0 psf

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



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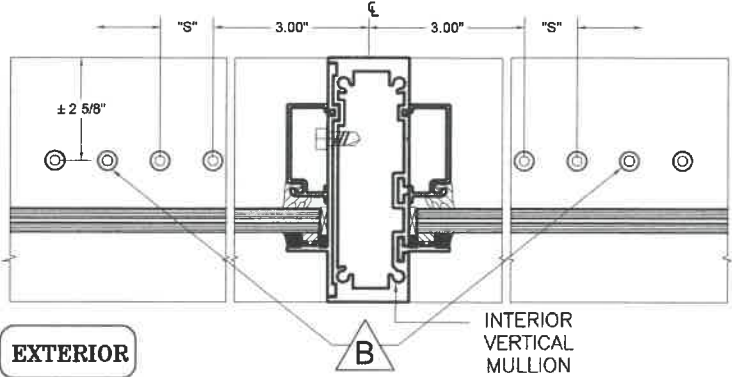
MAXIMUM A.S.D. DESIGN PRESSURE RATING SCHEDULE FOR INTERIOR, DOOR JAMB
& JAMB MULLION'S HEAD/SILL CONNECTIONS *

MAXIMUM MULLION SPAN	EFFECTIVE SPACING "b" (Ft-in)		MAXIMUM DESIGN PRESSURE RATING W (psf) FOR 1/4" MAX. SHIM SPACE									
			n = 4		n = 6		n = 8		n = 10		n = 12	
	JAMB MULLION	INTERIOR OR DOOR JAMB MULLION	CONCRETE OR METAL	WOOD	CONCRETE OR METAL	WOOD	CONCRETE OR METAL	WOOD	CONCRETE OR METAL	WOOD	CONCRETE OR METAL	WOOD
"L"(Ft-in)			A & B	C	A & B	C	A & B	C	A & B	C	A & B	C
7'-0"	1'-6"	3'-0"	107.8	67.4	161.7	101.0	180.0	135.0	180.0	168.5	180.0	180.0
	1'-9"	3'-6"	92.4	57.8	138.9	86.6	180.0	115.5	180.0	144.4	180.0	173.3
	2'-0"	4'-0"	80.9	50.6	121.3	75.8	161.7	101.1	180.0	126.3	180.0	151.6
	2'-3"	4'-6"	71.9	44.9	107.8	67.4	143.8	89.8	180.0	112.3	180.0	134.8
	2'-6"	5'-0"	64.7	40.4	97.0	60.6	129.4	80.9	161.7	101.1	180.0	121.3
	-	5'-6"	58.8	36.8	88.2	55.1	117.6	73.5	147.0	91.9	176.0	110.0
-	6'-0"	53.9	33.7	80.9	50.6	107.8	67.4	134.8	84.3	161.7	101.1	
7'-6"	1'-6"	3'-0"	100.0	62.7	150.0	94.0	180.0	125.3	180.0	156.7	180.0	180.0
	1'-9"	3'-6"	85.9	53.8	128.0	80.6	180.0	107.5	180.0	134.3	180.0	161.2
	2'-0"	4'-0"	75.2	47.1	112.8	70.6	150.4	94.1	180.0	117.8	180.0	141.2
	2'-3"	4'-6"	66.9	41.8	100.2	62.6	133.7	83.3	180.0	104.2	180.0	125.0
	2'-6"	5'-0"	60.2	37.6	90.2	56.4	120.3	75.2	150.4	94.0	180.0	112.8
	-	5'-6"	54.7	34.2	82.0	51.3	109.3	68.4	136.7	85.6	163.7	102.7
-	6'-0"	50.1	31.3	75.2	47.0	100.3	62.6	125.4	78.3	150.3	93.9	
8'-0"	1'-6"	3'-0"	94.0	58.9	141.0	88.4	180.0	117.9	180.0	147.3	180.0	176.8
	1'-9"	3'-6"	80.7	50.6	121.1	75.9	161.7	101.1	180.0	126.4	180.0	151.7
	2'-0"	4'-0"	70.7	44.3	106.0	66.4	141.4	88.5	176.7	110.7	180.0	132.8
	2'-3"	4'-6"	62.9	39.3	94.2	58.9	125.7	78.6	157.2	98.2	180.0	117.9
	2'-6"	5'-0"	56.6	35.3	84.8	53.0	113.1	70.7	141.4	88.4	169.8	106.0
	-	5'-6"	51.4	32.4	77.1	48.2	102.7	64.3	128.5	80.4	153.9	96.4
-	6'-0"	47.1	29.4	70.7	44.1	94.2	58.8	117.9	73.6	141.3	88.3	
8'-6"	1'-6"	3'-0"	88.4	55.4	132.5	83.0	177.6	110.7	180.0	138.4	180.0	166.1
	1'-9"	3'-6"	75.9	47.6	113.8	71.3	152.0	95.1	180.0	118.9	180.0	142.7
	2'-0"	4'-0"	66.5	41.6	99.6	62.5	132.9	83.3	166.5	104.1	180.0	124.9
	2'-3"	4'-6"	59.1	36.9	88.5	55.4	118.2	73.9	147.8	92.4	177.6	110.8
	2'-6"	5'-0"	53.2	33.2	79.7	49.8	106.3	66.4	133.2	83.0	159.6	99.5
	-	5'-6"	48.3	30.2	72.5	45.3	96.5	60.3	120.8	75.4	144.7	90.5
-	6'-0"	44.3	27.6	66.5	41.5	88.5	55.3	110.8	69.1	132.8	82.9	
9'-0"	1'-6"	3'-0"	83.1	52.1	124.6	78.1	166.9	104.2	180.0	130.2	180.0	156.2
	1'-9"	3'-6"	71.3	44.7	107.0	67.1	142.9	89.5	179.7	111.9	180.0	134.2
	2'-0"	4'-0"	62.5	39.1	93.6	58.7	124.9	78.2	157.3	97.8	180.0	117.3
	2'-3"	4'-6"	55.6	34.7	83.2	52.0	111.1	69.4	138.7	86.7	166.9	104.0
	2'-6"	5'-0"	50.0	31.2	74.0	46.8	99.9	62.4	125.9	78.0	150.0	93.6
	-	5'-6"	45.4	28.4	68.2	42.6	90.7	56.8	113.6	71.0	136.0	83.2
-	6'-0"	41.6	25.9	62.5	38.9	83.2	51.9	104.1	64.9	124.8	77.8	

* MAX. POSITIVE A.S.D DESIGN PRESSURE
RATING FOR ALL CASES IS 90.0 psf

B FASTENERS TYPES & SUBSTRATES REQUIREMENTS:

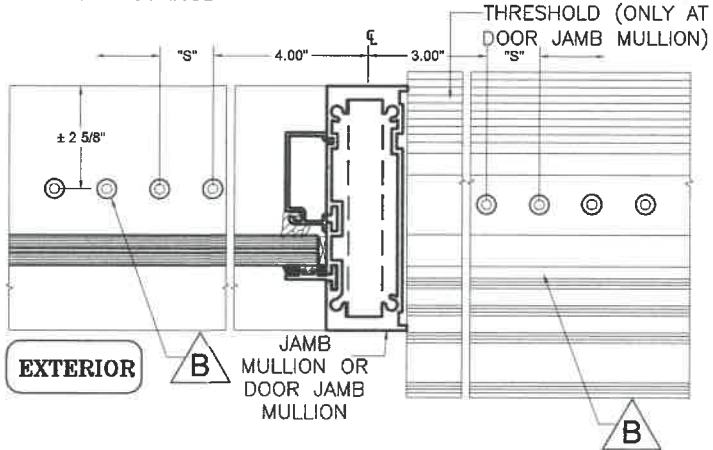
- A** - 1/4"Ø ELCO CONSTRUCTION PRODUCTS, ULTRACON ANCHOR W/ 1 3/4" Min. EMBEDMENT INTO POURED CONCRETE (Min. f_c = 2.730 ksi), W/ S = 3" MIN. SPACING & 2 1/2" MIN. EDGE DISTANCE. EMBEDMENT & EDGE DISTANCE ARE BEYOND ANY FINISH MATERIAL.
- B** - 1/4"-14 ITW/BUILDEX TEK SCREW OR 1/4"-14 ELCO CONSTRUCTION PRODUCTS DRILL-FLEX W/ FULL ENGAGEMENT INTO MIN. 1/8" THK. (F_y = 33 Ksi) STEEL & W/ MIN. (3) THREADS PASSED BEYOND STEEL THICKNESS.
- C** - 1/4"Ø ELCO CONSTRUCTION PRODUCTS ULTRACON ANCHOR W/ 1 1/2" MIN. EMBEDMENT INTO WOOD (G=0.55) W/ S = 3" MIN. SPACING & 1" MIN. EDGE DISTANCE.



n = TOTAL NUMBER OF FASTENERS PER CONNECTION AT HEAD/SILL, EQUALLY
INSTALLED W/ (n/2) AT EACH SIDE OF INTERIOR VERTICAL MULLION

**SILL OR HEAD CONNECTION DETAIL @
INTERIOR VERTICAL MULLION**

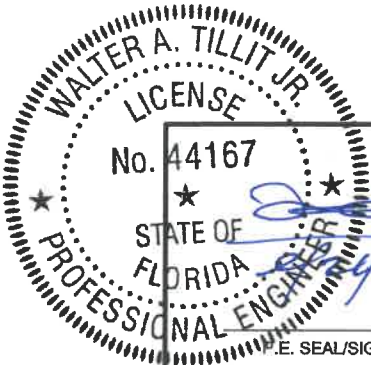
(PLAN VIEW)
N.T.S.



n = TOTAL NUMBER OF FASTENERS PER CONNECTION AT HEAD/SILL, INSTALLED AT
ONE SIDE OF JAMB MULLION OR W/ (n/2) AT EACH SIDE OF DOOR JAMB MULLION

**SILL OR HEAD CONNECTION DETAIL @
JAMB OR DOOR JAMB MULLION (SEE SHEET 21)**

(PLAN VIEW)
N.T.S.



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

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

PROTECT SERIES PERFORMANCE STOREFRONT
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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 19-029	08/03/20	2	-	-

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08/03/2020
DATE

20-225
DRAWING No

SHEET 9 of 21

MAXIMUM A.S.D. DESIGN PRESSURE RATING SCHEDULE FOR INTERIOR, DOOR JAMB
& JAMB MULLION'S HEAD/SILL CONNECTIONS *

MAXIMUM MULLION SPAN "L"(Ft-in)	EFFECTIVE SPACING "b"(Ft-in)		MAXIMUM DESIGN PRESSURE RATING W (psf) FOR 1/4" MAX. SHIM SPACE									
			n = 4		n = 6		n = 8		n = 10		n = 12	
	JAMB MULLION	INTERIOR OR DOOR JAMB MULLION	CONCRETE OR METAL A & B	WOOD C	CONCRETE OR METAL A & B	WOOD C	CONCRETE OR METAL A & B	WOOD C	CONCRETE OR METAL A & B	WOOD C	CONCRETE OR METAL A & B	WOOD C
9'-6"	1'-6"	3'-0"	78.1	49.5	117.1	74.2	156.9	99.0	180.0	123.7	180.0	148.5
	1'-9"	3'-6"	67.0	42.5	100.6	63.7	134.3	84.9	170.3	106.2	180.0	127.4
	2'-0"	4'-0"	58.8	37.1	88.0	55.7	117.4	74.3	149.0	98.9	178.8	111.4
	2'-3"	4'-6"	52.3	33.0	78.2	49.4	104.4	67.9	130.4	82.4	156.9	98.9
	2'-6"	5'-0"	47.0	29.6	70.4	44.5	93.9	59.3	118.3	74.1	141.0	88.9
	-	5'-6"	42.7	27.0	64.1	40.5	85.3	54.0	106.7	67.5	127.8	80.9
10'-0"	-	6'-0"	39.1	24.6	58.8	36.9	78.2	49.2	97.9	61.5	117.3	73.8
	1'-6"	3'-0"	74.2	47.0	111.2	70.5	149.0	94.0	180.0	117.6	180.0	141.0
	1'-9"	3'-6"	63.7	40.4	95.6	60.6	129.4	80.8	161.8	100.9	180.0	121.1
	2'-0"	4'-0"	55.9	35.2	83.6	52.9	111.5	70.5	141.6	88.1	169.9	105.7
	2'-3"	4'-6"	49.7	31.4	74.3	47.0	99.2	62.7	123.9	78.4	149.9	94.0
	2'-6"	5'-0"	44.7	28.1	66.9	42.2	90.0	56.2	112.4	70.3	134.0	84.4
10'-6"	-	5'-6"	40.6	25.6	60.9	38.5	81.1	51.3	101.4	64.1	121.4	77.0
	-	6'-0"	37.1	23.4	55.9	35.0	74.4	46.7	93.0	58.4	111.4	70.1
	1'-6"	3'-0"	70.5	44.7	105.6	67.0	141.6	89.3	179.7	111.6	180.0	134.0
	1'-9"	3'-6"	60.5	38.4	90.8	57.6	123.2	76.8	153.7	96.0	180.0	115.1
	2'-0"	4'-0"	53.1	33.4	74.7	50.2	105.9	66.9	134.5	83.6	161.4	100.3
	2'-3"	4'-6"	47.2	29.8	70.6	44.7	94.2	59.7	117.7	74.6	141.6	89.5
11'-0"	2'-6"	5'-0"	42.5	26.7	63.6	40.0	85.4	53.4	106.8	66.7	127.3	80.8
	-	5'-6"	38.6	24.2	57.9	36.5	77.0	48.6	96.3	60.8	115.3	73.0
	-	6'-0"	35.2	22.2	53.1	33.3	70.7	44.5	88.4	55.6	105.8	66.7
	1'-6"	3'-0"	67.0	42.5	100.3	63.7	134.5	84.9	170.7	106.2	180.0	127.4
	1'-9"	3'-6"	57.5	36.5	86.3	54.7	117.0	73.0	146.0	91.2	176.6	109.4
	2'-0"	4'-0"	50.4	31.7	75.4	47.6	100.6	63.5	127.8	79.3	153.3	95.1
11'-6"	2'-3"	4'-6"	44.8	28.3	67.1	42.5	89.5	56.6	111.8	70.8	134.5	84.9
	2'-6"	5'-0"	40.4	25.4	59.5	38.0	81.2	50.7	101.5	63.4	120.9	76.1
	-	5'-6"	36.7	23.0	55.0	34.5	73.2	46.0	91.5	57.5	109.5	69.0
	-	6'-0"	33.4	21.1	50.4	31.6	67.2	42.2	84.0	52.7	100.5	63.3
	1'-6"	3'-0"	64.3	40.8	96.3	61.2	129.1	81.6	163.9	102.0	180.0	122.4
	1'-9"	3'-6"	55.2	35.0	82.8	52.6	112.3	70.1	140.2	87.6	169.5	105.1
12'-0"	2'-0"	4'-0"	48.4	30.4	72.4	45.6	96.6	60.9	122.7	76.1	147.2	91.3
	2'-3"	4'-6"	43.0	27.2	64.4	40.8	85.9	54.3	107.3	67.9	129.1	81.5
	2'-6"	5'-0"	38.8	24.4	57.1	36.6	78.7	48.8	97.4	61.0	116.1	73.2
	-	5'-6"	35.2	22.1	52.8	33.1	71.6	44.2	88.1	55.2	105.1	66.2
	-	6'-0"	32.1	20.3	48.4	30.4	65.6	40.5	80.6	50.6	96.5	60.8
	1'-6"	3'-0"	61.7	39.2	92.4	58.8	123.9	78.4	99.7	98.0	180.0	117.6
12'-6"	1'-9"	3'-6"	53.0	33.6	79.5	50.4	107.8	67.2	134.5	84.0	162.7	100.8
	2'-0"	4'-0"	46.5	29.2	69.5	43.8	92.7	58.4	117.7	73.0	141.3	87.6
	2'-3"	4'-6"	41.3	26.1	61.8	39.2	82.5	52.2	103.0	65.3	123.9	78.3
	2'-6"	5'-0"	37.2	23.4	54.8	35.1	75.6	48.4	93.5	58.6	111.5	70.3
	-	5'-6"	33.8	21.2	50.7	31.8	68.7	42.4	84.5	53.0	100.9	63.6
	-	6'-0"	30.8	19.5	46.5	29.2	63.0	39.0	77.4	48.7	92.6	58.5

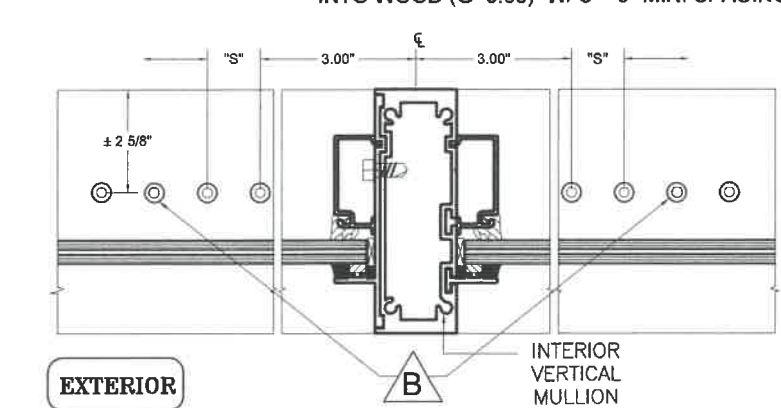
* MAX. POSITIVE A.S.D DESIGN PRESSURE
RATING FOR ANY CASE IS 90.0 psf

B FASTENERS TYPES & SUBSTRATES REQUIREMENTS:

A - 1/4"Ø ELCO CONSTRUCTION PRODUCTS, ULTRACON ANCHOR W/ 1 3/4" Min.
EMBEDMENT INTO POURED CONCRETE (Min. $f_c = 2.730$ ksi), W/ S = 3" MIN. SPACING &
2 1/2" MIN. EDGE DISTANCE. EMBEDMENT & EDGE DISTANCE ARE BEYOND ANY FINISH
MATERIAL.

B - 1/4"-14 ITW/BUILDEX TEK SCREW OR 1/4"-14 ELCO CONSTRUCTION PRODUCTS DRILL-FLEX
W/ FULL ENGAGEMENT INTO MIN. 1/8" THK. ($F_y = 33$ Ksi) STEEL & W/ MIN. (3) THREADS PASSED
BEYOND STEEL THICKNESS.

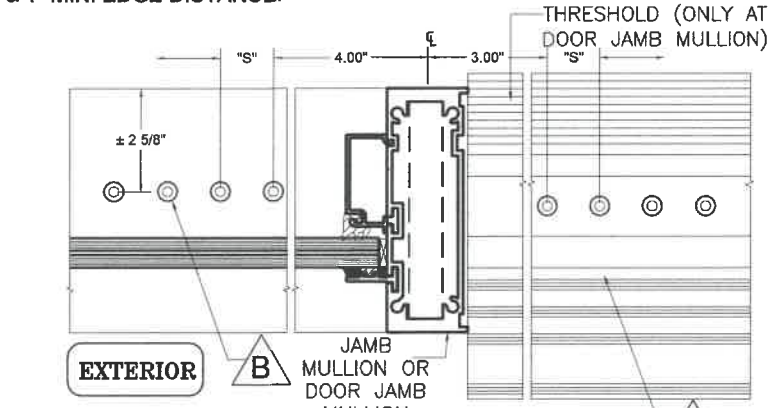
C - 1/4"Ø ELCO CONSTRUCTION PRODUCTS ULTRACON ANCHOR W/ 1 1/2" MIN. EMBEDMENT
INTO WOOD ($G=0.55$) W/ S = 3" MIN. SPACING & 1" MIN. EDGE DISTANCE.



n = TOTAL NUMBER OF FASTENERS PER CONNECTION AT HEAD/SILL, EQUALLY
INSTALLED W/ (n/2) AT EACH SIDE OF INTERIOR VERTICAL MULLION

**SILL OR HEAD CONNECTION DETAIL @
INTERIOR VERTICAL MULLION**

(PLAN VIEW)
N.T.S.



n = TOTAL NUMBER OF FASTENERS PER CONNECTION AT HEAD/SILL, INSTALLED AT
ONE SIDE OF JAMB MULLION OR W/ (n/2) AT EACH SIDE OF DOOR JAMB MULLION

**SILL OR HEAD CONNECTION DETAIL @
JAMB OR DOOR JAMB MULLION (SEE SHEET 21)**

(PLAN VIEW)
N.T.S.



P.E. SEAL/SIGNATURE/DATE

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

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SHEET 9A OF 21

**MAXIMUM A.S.D. DESIGN PRESSURE RATING SCHEDULE FOR INTERIOR, DOOR JAMB
& JAMB MULLION'S HEAD/SILL CONNECTIONS ***

MAXIMUM MULLION SPAN "L"(Ft-in)	EFFECTIVE SPACING "b" (Ft-in)		MAXIMUM DESIGN PRESSURE RATING W (psf) FOR 3/8" MAX. SHIM SPACE									
			n = 4		n = 6		n = 8		n = 10		n = 12	
	JAMB MULLION	INTERIOR OR DOOR JAMB MULLION	CONCRETE OR METAL A & B	WOOD C	CONCRETE OR METAL A & B	WOOD C	CONCRETE OR METAL A & B	WOOD C	CONCRETE OR METAL A & B	WOOD C	CONCRETE OR METAL A & B	WOOD C
7'-0"	1'-6"	3'-0"	78.5	67.5	117.8	101.3	157.1	135.0	180.0	168.8	180.0	180.0
	1'-9"	3'-6"	67.3	57.9	101.0	86.8	134.6	115.8	168.3	144.7	180.0	173.6
	2'-0"	4'-0"	58.9	50.7	88.4	76.0	117.8	101.3	147.3	126.6	176.7	152.0
	2'-3"	4'-6"	52.3	45.0	78.5	67.5	104.7	90.0	130.9	112.4	157.1	134.9
	2'-6"	5'-0"	47.1	40.5	70.7	60.8	94.2	81.0	117.8	101.3	141.4	121.5
	-	5'-6"	42.8	36.8	64.3	55.2	85.7	73.6	107.1	92.0	128.5	110.4
7'-6"	-	6'-0"	39.3	33.8	58.9	50.7	78.5	67.6	98.2	84.5	117.8	101.4
	1'-6"	3'-0"	73.0	62.8	109.6	94.2	146.1	125.6	180.0	157.0	180.0	180.0
	1'-9"	3'-6"	62.6	53.8	93.9	80.8	125.2	107.7	156.5	134.6	180.0	161.5
	2'-0"	4'-0"	54.8	47.1	82.2	70.7	109.6	94.3	137.0	117.8	164.3	141.4
	2'-3"	4'-6"	48.6	41.8	73.0	62.7	97.4	83.6	121.7	104.5	146.1	125.4
	2'-6"	5'-0"	43.8	37.7	65.8	56.5	87.6	75.3	109.6	94.2	131.5	113.0
8'-0"	-	5'-6"	39.5	34.0	59.8	51.0	79.7	68.0	97.6	84.9	119.5	101.9
	-	6'-0"	36.5	31.4	54.8	47.1	73.0	62.8	91.3	78.5	109.6	94.2
	1'-6"	3'-0"	68.4	58.8	103.0	88.2	137.3	117.6	171.7	147.1	180.0	176.5
	1'-9"	3'-6"	58.8	50.6	88.3	75.9	117.7	101.1	147.1	126.4	176.6	151.7
	2'-0"	4'-0"	51.5	44.3	77.3	66.4	103.0	88.6	128.8	110.7	154.4	132.9
	2'-3"	4'-6"	45.7	39.3	68.6	59.0	91.6	78.6	113.2	98.3	137.3	117.9
8'-6"	2'-6"	5'-0"	41.2	35.4	61.9	53.1	82.3	70.9	103.0	88.6	123.6	106.3
	-	5'-6"	37.1	31.9	56.2	47.9	74.9	63.8	91.7	79.8	112.3	95.7
	-	6'-0"	34.3	29.5	51.2	44.2	68.6	59.0	85.8	73.7	103.0	88.5
	1'-6"	3'-0"	64.3	55.3	96.9	82.9	129.1	110.6	161.4	138.2	180.0	165.9
	1'-9"	3'-6"	55.3	47.6	83.0	71.3	110.6	95.1	138.3	118.9	166.0	142.7
	2'-0"	4'-0"	47.9	41.2	72.7	61.8	96.8	82.4	121.0	103.0	165.1	123.6
9'-0"	2'-3"	4'-6"	43.0	37.0	64.5	55.7	86.1	74.0	106.4	92.5	129.1	110.9
	2'-6"	5'-0"	38.7	33.3	58.2	49.9	77.4	66.6	96.8	83.2	116.2	99.8
	-	5'-6"	34.9	30.0	52.8	45.0	70.4	60.0	86.2	75.0	105.6	90.0
	-	6'-0"	32.2	27.7	48.1	41.5	64.5	55.4	80.7	69.2	96.8	83.0
	1'-6"	3'-0"	60.4	51.9	91.1	77.9	121.4	103.8	151.7	129.9	180.0	155.8
	1'-9"	3'-6"	52.0	44.7	78.0	67.1	104.0	89.4	130.0	111.8	156.0	134.2
9'-6"	2'-0"	4'-0"	45.0	38.7	68.3	58.1	91.0	77.4	113.7	96.8	136.3	116.1
	2'-3"	4'-6"	40.4	34.7	60.6	52.1	80.9	69.5	100.0	86.9	121.4	104.2
	2'-6"	5'-0"	36.4	31.3	54.7	47.0	72.8	62.6	91.0	78.2	109.2	93.9
	-	5'-6"	32.8	28.2	49.6	42.3	66.2	56.4	81.0	70.5	99.3	84.6
	-	6'-0"	30.3	26.1	45.2	39.1	60.6	52.1	75.9	65.1	91.0	70.2

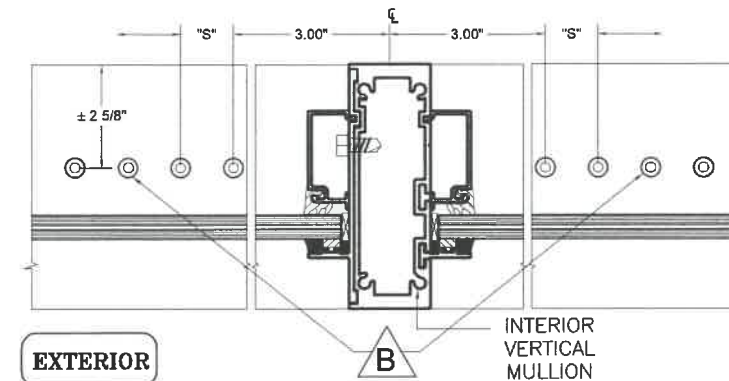
* MAX. POSITIVE A.S.D DESIGN PRESSURE
RATING FOR ANY CASE IS 90.0 psf

B FASTENERS TYPES & SUBSTRATES REQUIREMENTS:

A - 1/4"Ø ELCO CONSTRUCTION PRODUCTS, ULTRACON ANCHOR W/ 1 3/4" Min. EMBEDMENT INTO POURED CONCRETE (Min. $f_c = 2.730$ ksi), W/ S = 3" MIN. SPACING & 2 1/2" MIN. EDGE DISTANCE. EMBEDMENT & EDGE DISTANCE ARE BEYOND ANY FINISH MATERIAL.

B - 1/4"-14 ITW/BUILDEX TEK SCREW OR 1/4"-14 ELCO CONSTRUCTION PRODUCTS DRILL-FLEX W/ FULL ENGAGEMENT INTO MIN. 1/8" THK. ($F_y = 33$ Ksi) STEEL & W/ MIN. (3) THREADS PASSED BEYOND STEEL THICKNESS.

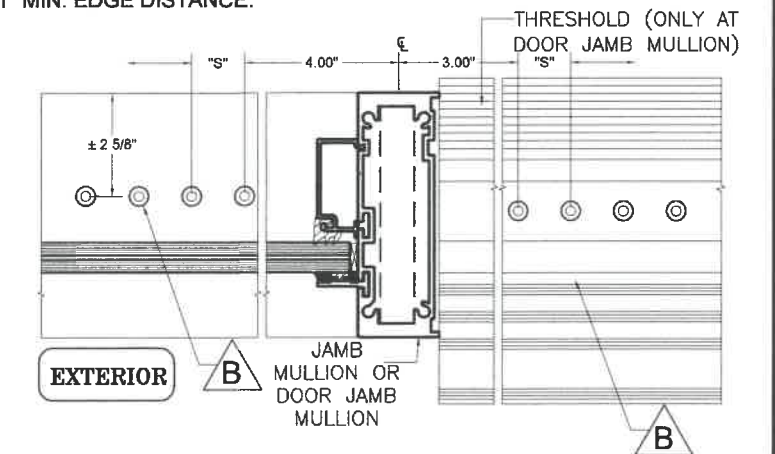
C - 1/4"Ø ELCO CONSTRUCTION PRODUCTS ULTRACON ANCHOR W/ 1 1/2" MIN. EMBEDMENT INTO WOOD ($G=0.55$) W/ S = 3" MIN. SPACING & 1" MIN. EDGE DISTANCE.



n = TOTAL NUMBER OF FASTENERS PER CONNECTION AT HEAD/SILL, EQUALLY
INSTALLED W/ (n/2) AT EACH SIDE OF INTERIOR VERTICAL MULLION

**SILL OR HEAD CONNECTION DETAIL @
INTERIOR VERTICAL MULLION**

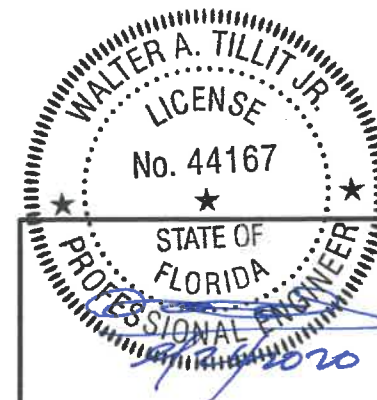
(PLAN VIEW)
N.T.S.



n = TOTAL NUMBER OF FASTENERS PER CONNECTION AT HEAD/SILL, INSTALLED AT
ONE SIDE OF JAMB MULLION OR W/ (n/2) AT EACH SIDE OF DOOR JAMB MULLION

**SILL OR HEAD CONNECTION DETAIL @
JAMB OR DOOR JAMB MULLION (SEE SHEET 21)**

(PLAN VIEW)
N.T.S.



P.E. SEAL/SIGNATURE/DATE



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

**PROTECT SERIES PERFORMANCE STOREFRONT
SYSTEM WITH LARGE AND SMALL MISSILE
LAMINATED AND INSULATED GLASS**

ALUMINA DISTRIBUTION CENTER

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

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 19-029	08/03/20	2	-	-

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08/03/2020
DATE

20-225
DRAWING No

SHEET 10 OF 21

**MAXIMUM A.S.D. DESIGN PRESSURE RATING SCHEDULE FOR INTERIOR, DOOR JAMB
& JAMB MULLION'S HEAD/SILL CONNECTIONS ***

MAXIMUM MULLION SPAN "L"(Ft-in)	EFFECTIVE SPACING "b" (Ft-in)		MAXIMUM DESIGN PRESSURE RATING W (psf) FOR 3/8" MAX. SHIM SPACE									
			n = 4		n = 6		n = 8		n = 10		n = 12	
	JAMB MULLION	INTERIOR OR DOOR JAMB MULLION	CONCRETE OR METAL	WOOD	CONCRETE OR METAL	WOOD	CONCRETE OR METAL	WOOD	CONCRETE OR METAL	WOOD	CONCRETE OR METAL	WOOD
			A & B	C	A & B	C	A & B	C	A & B	C	A & B	C
9'-6"	1'-6"	3-0"	57.4	49.5	86.5	74.3	115.3	99.1	144.1	123.8	173.6	148.6
	1'-9"	3'-6"	49.4	42.5	74.1	63.7	98.8	85.0	123.5	106.2	148.2	127.5
	2'-0"	4'-0"	42.8	36.8	64.9	55.2	86.5	73.6	108.0	92.0	129.5	110.4
	2'-3"	4'-6"	38.4	33.0	57.6	49.5	76.9	66.0	95.0	82.6	115.3	99.1
	2'-6"	5'-0"	34.6	29.8	52.0	44.6	69.2	59.5	86.5	74.4	103.7	89.3
	-	5'-6"	31.1	26.7	47.1	40.0	62.9	53.4	77.0	66.8	94.3	80.1
	-	6'-0"	28.8	24.8	42.9	37.2	57.6	49.5	72.1	61.9	86.5	74.3
10'-0"	1'-6"	3-0"	54.5	46.9	82.2	70.3	109.5	93.7	136.9	117.2	164.9	140.6
	1'-9"	3'-6"	46.9	40.3	70.4	60.5	93.9	80.7	117.3	100.8	140.8	121.0
	2'-0"	4'-0"	40.7	35.0	61.7	52.5	82.8	70.0	102.6	87.5	123.0	105.0
	2'-3"	4'-6"	36.5	31.4	54.7	47.1	73.0	62.8	90.3	78.5	109.5	94.2
	2'-6"	5'-0"	32.9	28.3	49.4	42.4	65.7	56.6	82.2	70.7	98.5	84.9
	-	5'-6"	29.5	25.4	44.7	38.1	59.8	50.7	73.2	63.4	89.6	76.1
	-	6'-0"	27.4	23.6	40.8	35.3	54.7	47.1	68.5	58.9	82.2	70.7
10'-6"	1'-6"	3-0"	51.9	44.6	78.1	67.0	104.0	89.3	130.0	111.6	156.7	133.9
	1'-9"	3'-6"	44.6	38.4	66.9	57.5	89.2	76.7	111.4	95.9	133.8	115.1
	2'-0"	4'-0"	38.7	33.3	58.6	49.9	78.1	66.6	97.5	83.2	116.9	99.8
	2'-3"	4'-6"	34.7	29.8	52.0	44.8	69.4	59.7	85.8	74.6	95.5	89.5
	2'-6"	5'-0"	31.3	26.9	46.9	40.4	62.4	53.8	78.1	67.3	93.6	80.8
	-	5'-6"	28.0	24.1	42.5	36.1	56.8	48.2	69.5	60.2	85.1	72.2
	-	6'-0"	26.0	22.4	38.8	33.5	52.0	44.7	65.1	55.9	78.1	67.1
11'-0"	1'-6"	3-0"	49.5	42.6	74.2	63.9	98.8	85.1	123.5	106.4	148.9	127.7
	1'-9"	3'-6"	42.4	36.4	63.6	54.7	84.7	72.9	105.8	91.2	127.1	109.4
	2'-0"	4'-0"	36.8	31.6	55.7	47.5	74.2	63.3	92.6	79.1	111.1	94.9
	2'-3"	4'-6"	33.0	28.4	49.4	42.6	65.9	56.8	81.5	71.0	90.7	85.1
	2'-6"	5'-0"	29.7	25.5	44.6	38.3	59.3	51.1	74.2	63.9	88.9	76.6
	-	5'-6"	26.6	22.9	40.4	34.3	54.0	45.8	66.0	57.2	80.8	68.6
	-	6'-0"	24.7	21.2	36.9	31.9	49.4	42.5	61.8	53.1	74.2	63.7
11'-6"	1'-6"	3-0"	47.5	40.9	71.2	61.3	94.8	81.7	118.6	102.1	142.9	122.6
	1'-9"	3'-6"	40.7	35.0	61.0	52.5	81.3	70.1	101.6	87.5	122.0	105.0
	2'-0"	4'-0"	35.3	30.4	53.4	45.5	71.2	60.7	88.9	75.9	106.7	91.1
	2'-3"	4'-6"	31.7	27.3	47.4	40.9	63.3	54.5	78.2	68.1	87.1	81.8
	2'-6"	5'-0"	28.5	24.5	42.8	36.8	56.9	49.0	71.2	61.3	85.3	73.8
	-	5'-6"	25.5	21.9	38.8	32.9	51.8	43.9	62.4	54.8	77.4	65.8
	-	6'-0"	23.7	20.4	35.4	30.6	57.4	40.8	59.3	51.1	71.2	61.1
12'-0"	1'-6"	3-0"	45.6	39.2	68.4	58.8	91.0	78.4	103.9	98.0	137.2	117.6
	1'-9"	3'-6"	39.1	33.6	58.6	50.4	78.0	67.3	97.5	84.1	117.2	100.9
	2'-0"	4'-0"	33.9	29.2	51.3	43.7	68.4	58.3	85.3	72.9	102.4	87.5
	2'-3"	4'-6"	30.4	26.1	45.5	39.2	60.8	52.2	75.1	65.4	83.6	78.4
	2'-6"	5'-0"	27.4	23.6	41.1	35.3	54.6	47.1	68.4	58.9	81.9	70.7
	-	5'-6"	24.5	21.1	37.2	31.6	49.7	42.1	59.9	52.7	74.3	63.2
	-	6'-0"	22.8	19.6	34.0	29.4	45.5	39.2	56.9	49.0	68.4	58.8

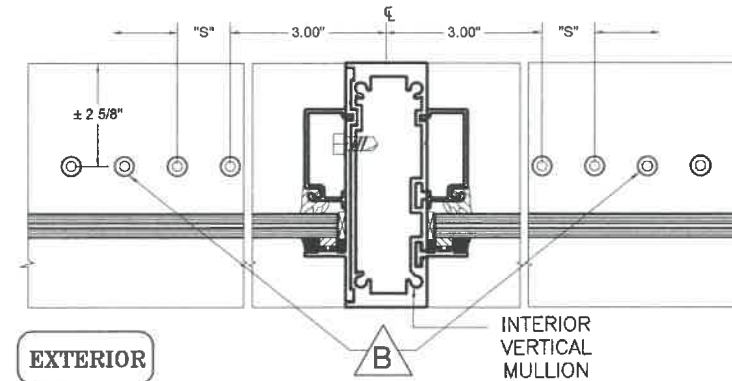
* MAX. POSITIVE A.S.D DESIGN PRESSURE
RATING FOR ANY CASE IS 90.0 psf

B FASTENERS TYPES & SUBSTRATES REQUIREMENTS:

A - 1/4"Ø ELCO CONSTRUCTION PRODUCTS, ULTRACON ANCHOR W/ 1 3/4" Min.
EMBEDMENT INTO POURED CONCRETE (Min. $f_c = 2.730$ ksi), W/ S = 3" MIN. SPACING &
2 1/2" MIN. EDGE DISTANCE. EMBEDMENT & EDGE DISTANCE ARE BEYOND ANY FINISH
MATERIAL.

B - 1/4"-14 ITW/BUILDEX TEK SCREW OR 1/4"-14 ELCO CONSTRUCTION PRODUCTS DRILL-FLEX
W/ FULL ENGAGEMENT INTO MIN. 1/8" THK. ($F_y = 33$ Ksi) STEEL & W/ MIN. (3) THREADS PASSED
BEYOND STEEL THICKNESS.

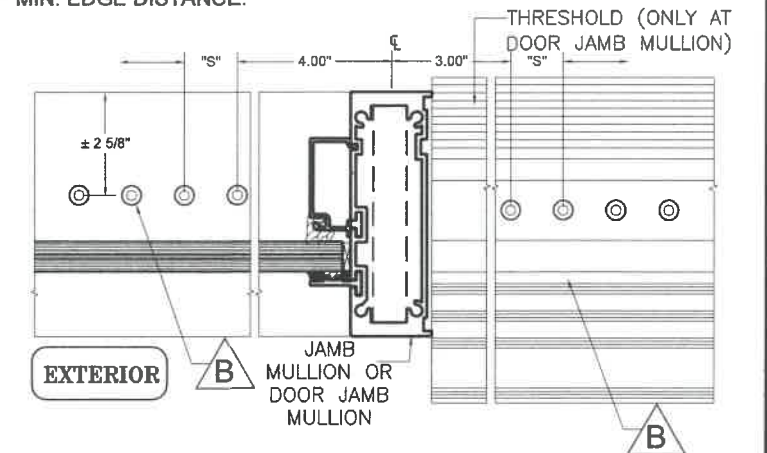
C - 1/4"Ø ELCO CONSTRUCTION PRODUCTS ULTRACON ANCHOR W/ 1 1/2" MIN. EMBEDMENT
INTO WOOD ($G=0.55$) W/ S = 3" MIN. SPACING & 1" MIN. EDGE DISTANCE.



n = TOTAL NUMBER OF FASTENERS PER CONNECTION AT HEAD/SILL, EQUALLY
INSTALLED W/ (n/2) AT EACH SIDE OF INTERIOR VERTICAL MULLION

**SILL OR HEAD CONNECTION DETAIL @
INTERIOR VERTICAL MULLION**

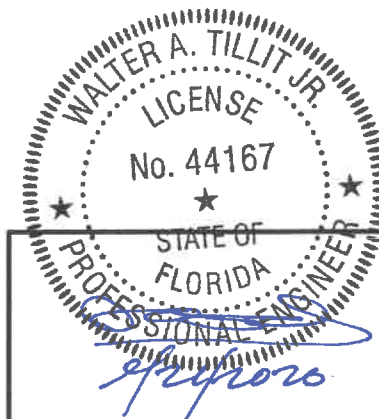
(PLAN VIEW)
N.T.S.



n = TOTAL NUMBER OF FASTENERS PER CONNECTION AT HEAD/SILL, INSTALLED AT
ONE SIDE OF JAMB MULLION OR W/ (n/2) AT EACH SIDE OF DOOR JAMB MULLION

**SILL OR HEAD CONNECTION DETAIL @
JAMB OR DOOR JAMB MULLION (SEE SHEET 21)**

(PLAN VIEW)
N.T.S.



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FLORIDA Lic. # 44167

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

**PROTECT SERIES PERFORMANCE STOREFRONT
SYSTEM WITH LARGE AND SMALL MISSILE
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ALUMINA DISTRIBUTION CENTER

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SHEET 10A OF 21

MAX. ANCHOR SPACING FOR ATTACHED JAMB MULLION "A" TO EXISTING STRUCTURE GIVEN A.S.D DESIGN WIND LOAD AND EFFECTIVE SPACING "b" TO BE USED WHEN FREE STANDING MULLION "A" (NOT ATTACHED TO STRUCTURE) CANNOT MEET THE REQUIRED SPAN "L" FOR A GIVEN A.S.D DESIGN WIND LOAD *

MAXIMUM ASD DESIGN PRESSURE RATING (psf) **	EFFECTIVE SPACING FOR "A" *** "b" (Ft-in)	MAX. ANCHOR SPACING FOR			
		1/4" SHIM SPACE		3/8" SHIM SPACE	
		CONCRETE, CONCRETE BLOCK, STEEL OR ALUMINUM	WOOD	CONCRETE, CONCRETE BLOCK, STEEL OR ALUMINUM	WOOD
47.8 or LESS	1'-6"	15" O.C	15" O.C	15" O.C	15" O.C
	2'-0"	15" O.C	15" O.C	15" O.C	15" O.C
	2'-6"	15" O.C	15" O.C	15" O.C	15" O.C
50.0	1'-6"	15" O.C	15" O.C	15" O.C	15" O.C
	2'-0"	15" O.C	15" O.C	15" O.C	15" O.C
	2'-6"	15" O.C	15" O.C	15" O.C	15" O.C
60.0	1'-6"	15" O.C	15" O.C	15" O.C	15" O.C
	2'-0"	15" O.C	15" O.C	15" O.C	15" O.C
	2'-6"	15" O.C	12" O.C	15" O.C	12" O.C
70.0	1'-6"	15" O.C	15" O.C	15" O.C	15" O.C
	2'-0"	15" O.C	15" O.C	15" O.C	15" O.C
	2'-6"	15" O.C	12" O.C	12" O.C	12" O.C
80.0	1'-6"	15" O.C	15" O.C	15" O.C	15" O.C
	2'-0"	15" O.C	12" O.C	15" O.C	12" O.C
	2'-6"	15" O.C	10" O.C	12" O.C	10" O.C
90.0	1'-6"	15" O.C	15" O.C	15" O.C	15" O.C
	2'-0"	15" O.C	10" O.C	12" O.C	10" O.C
	2'-6"	14" O.C	9" O.C	10" O.C	9" O.C
100.0	1'-6"	15" O.C	12" O.C	15" O.C	12" O.C
	2'-0"	15" O.C	10" O.C	12" O.C	10" O.C
	2'-6"	12" O.C	8" O.C	9" O.C	8" O.C
110.0	1'-6"	15" O.C	12" O.C	15" O.C	12" O.C
	2'-0"	12" O.C	9" O.C	10" O.C	9" O.C
	2'-6"	12" O.C	8" O.C	9" O.C	8" O.C
120.0	1'-6"	15" O.C	10" O.C	12" O.C	10" O.C
	2'-0"	12" O.C	9" O.C	10" O.C	9" O.C
	2'-6"	10" O.C	7" O.C	8" O.C	7" O.C
130.0	1'-6"	15" O.C	10" O.C	12" O.C	10" O.C
	2'-0"	12" O.C	8" O.C	9" O.C	8" O.C
	2'-6"	10" O.C	6" O.C	7" O.C	6" O.C
140.0	1'-6"	15" O.C	10" O.C	12" O.C	10" O.C
	2'-0"	12" O.C	8" O.C	9" O.C	8" O.C
	2'-6"	10" O.C	6" O.C	7" O.C	6" O.C
150.0	1'-6"	12" O.C	9" O.C	10" O.C	9" O.C
	2'-0"	10" O.C	7" O.C	8" O.C	7" O.C
	2'-6"	10" O.C	6" O.C	7" O.C	6" O.C
160.0	1'-6"	12" O.C	9" O.C	10" O.C	9" O.C
	2'-0"	10" O.C	6" O.C	7" O.C	6" O.C
	2'-6"	8" O.C	5" O.C	6" O.C	5" O.C
170.0	1'-6"	12" O.C	8" O.C	9" O.C	8" O.C
	2'-0"	10" O.C	6" O.C	7" O.C	6" O.C
	2'-6"	8" O.C	5" O.C	6" O.C	5" O.C
180.0	1'-6"	7" O.C	7" O.C	7" O.C	7" O.C
	2'-0"	7" O.C	6" O.C	7" O.C	6" O.C
	2'-6"	6" O.C	4" O.C	5" O.C	4" O.C



FASTENERS TYPES & SUBSTRATES REQUIREMENTS:

- A** - 1/4"Ø ELCO CONSTRUCTION PRODUCTS, ULTRACON ANCHOR W/ 1 3/4" Min. EMBEDMENT INTO POURED CONCRETE (Min. f_c = 2.730 ksi), W/ S = 3" MIN. SPACING & 2 1/2" MIN. EDGE DISTANCE OR WITH 1 1/4" MIN. EMBEDMENT INTO ASTM C-90 CONCRETE BLOCK WITH S= 6" MIN. SPACING AND 2 1/2" MIN. EDGE DISTANCE ARE BEYOND ANY FINISH MATERIAL.
- B** - 1/4"-14 ITW/BUILDEX TEK SCREW OR 1/4"-14 ELCO CONSTRUCTION PRODUCTS DRILL-FLEX W/ FULL ENGAGEMENT INTO MIN. 1/8" THK. (F_y = 33 Ksi) STEEL & W/ MIN. (3) THREADS PASSED BEYOND STEEL THICKNESS.
- C** - 1/4"Ø ELCO CONSTRUCTION PRODUCTS ULTRACON ANCHOR W/ 1 1/2" MIN. EMBEDMENT INTO WOOD (G=0.55) W/ S = 3" MIN. SPACING & 1" MIN. EDGE DISTANCE.

* SEE SHEETS 5 & 17 FOR ANCHOR LOCATION.

** MAX. POSITIVE DESIGN PRESSURE RATING IS 90.0 psf FOR ALL CASES.

*** SEE SHEET 7 FOR DEFINITION OF EFFECTIVE SPACING "b" FOR ATTACHED JAMB MULLION.



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WALTER A. TILLIT Jr., P.E.

FLORIDA Lic. # 44167

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

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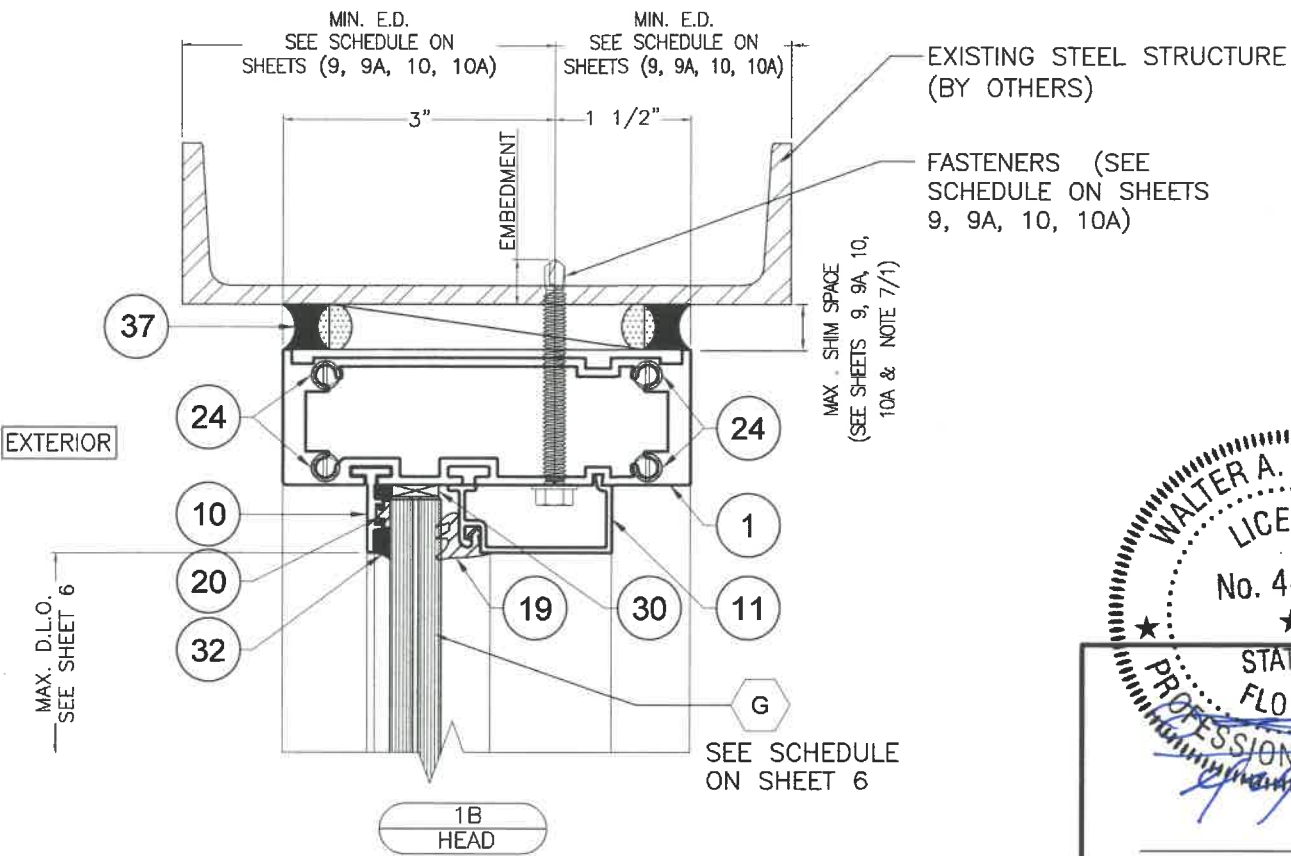
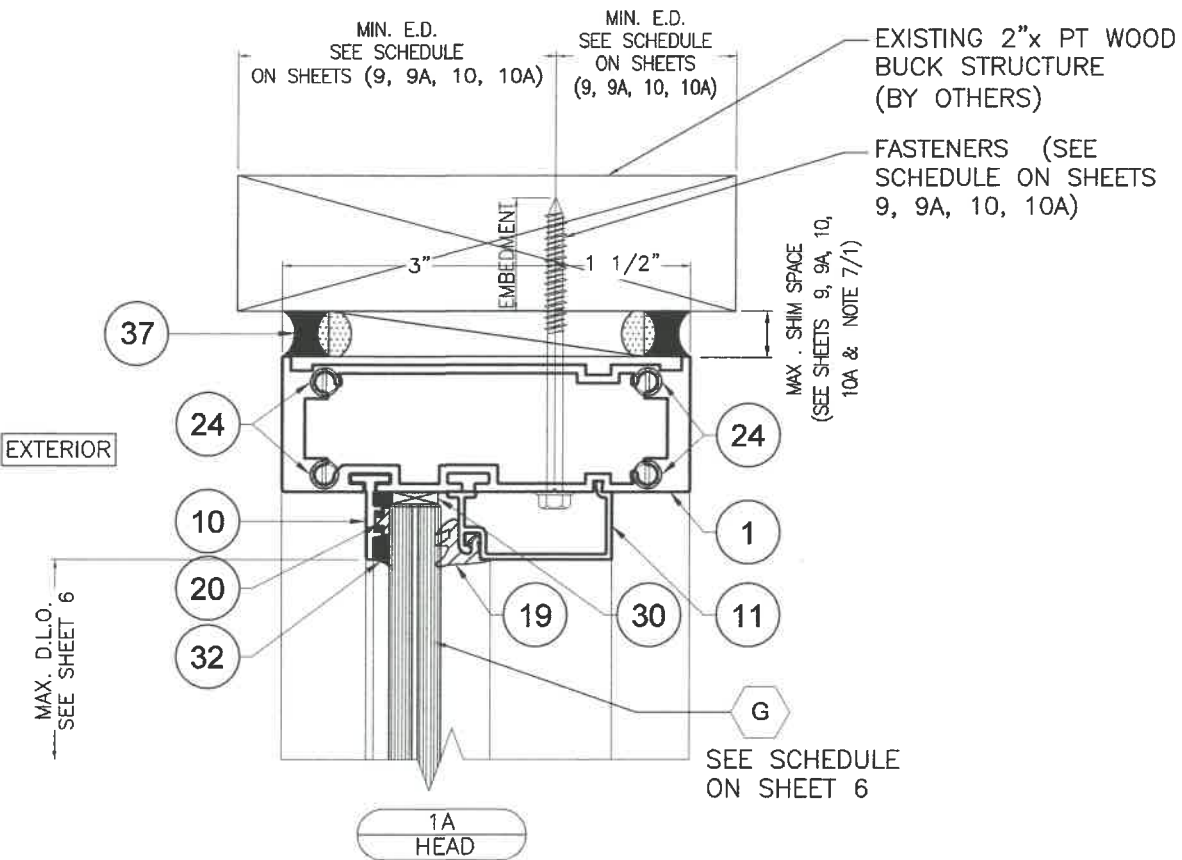
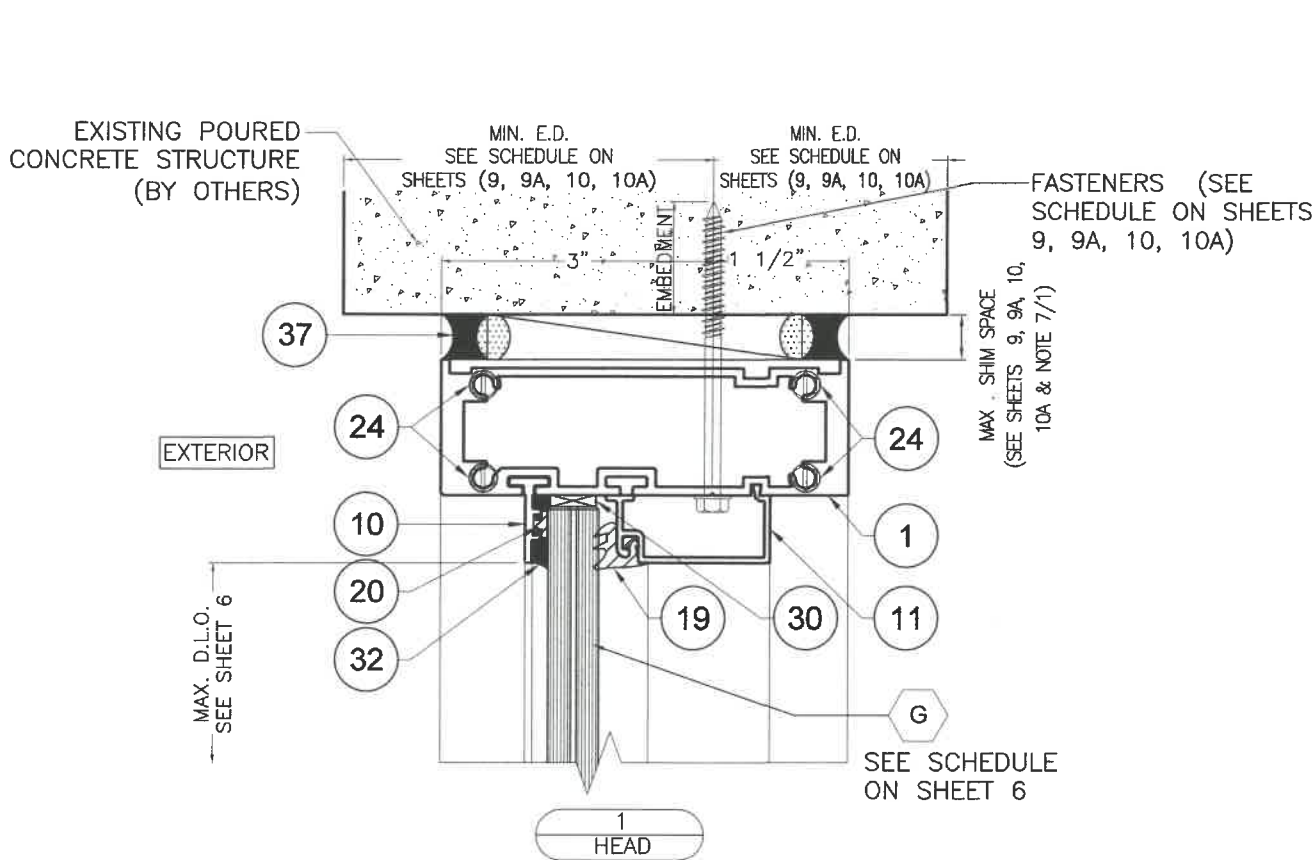
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08/03/2020 DATE

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SHEET 11 OF 21

HEAD CONNECTION DETAILS W/ LAMINATED GLASS



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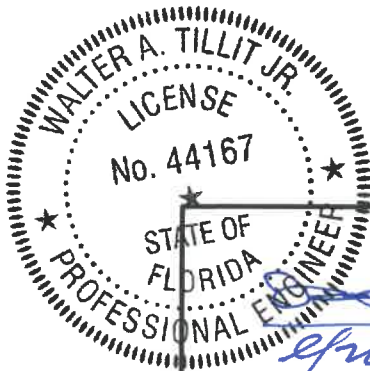
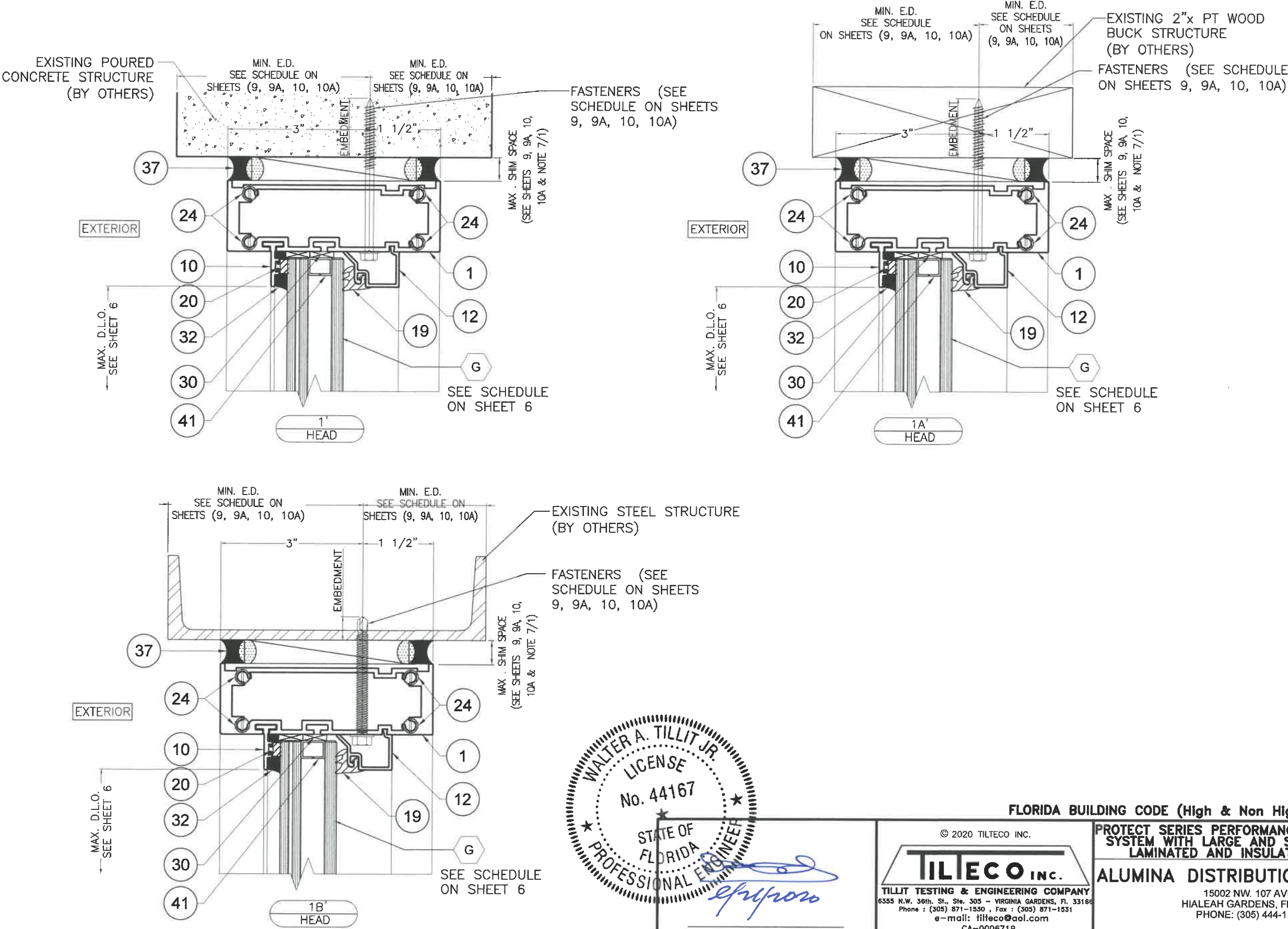
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SHEET 12 OF 21

HEAD CONNECTION DETAILS W/ INSULATED GLASS



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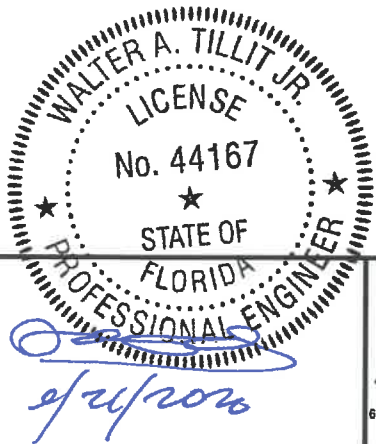
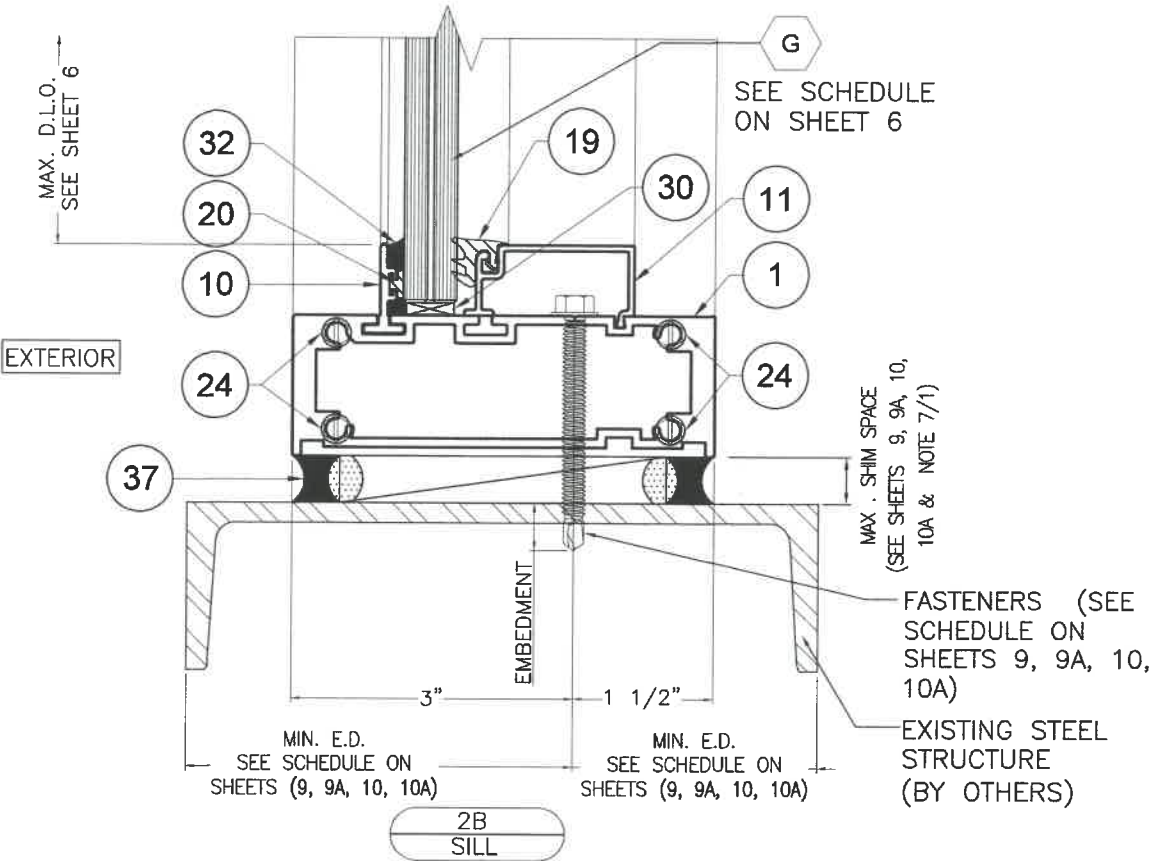
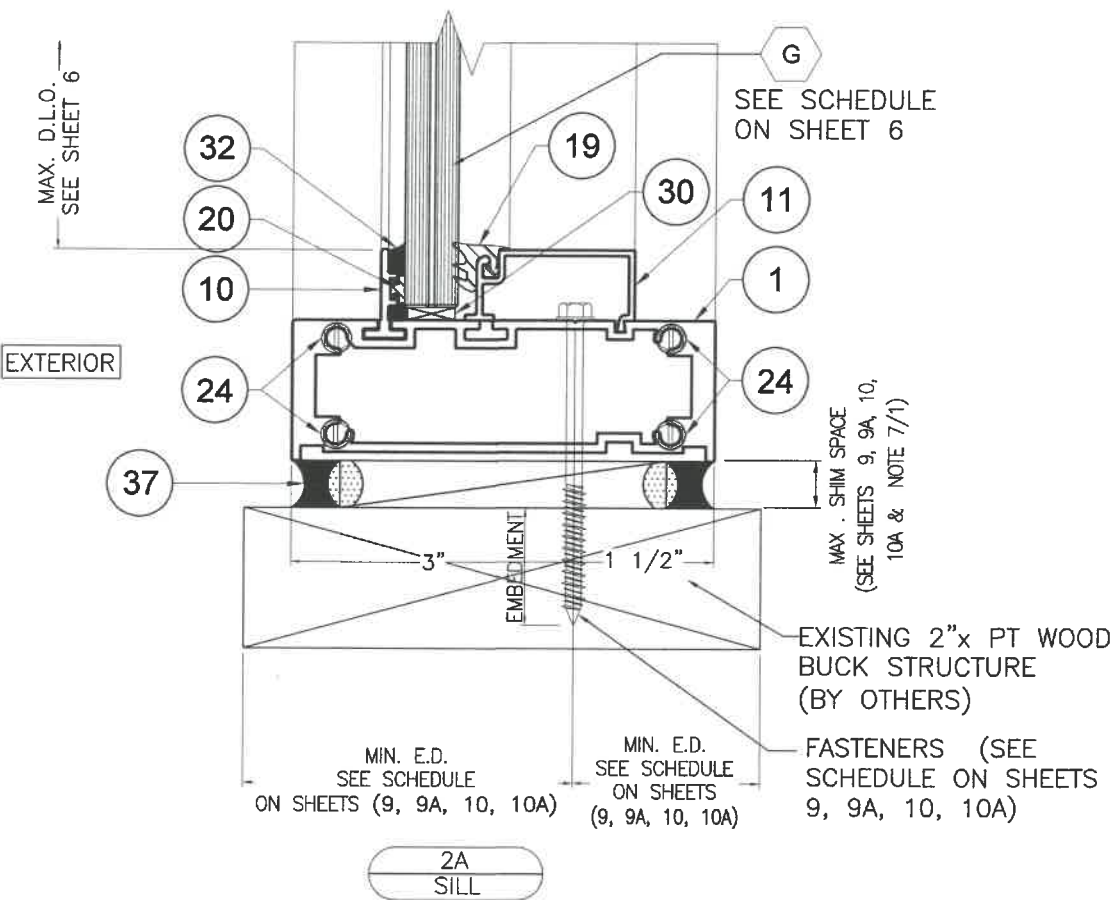
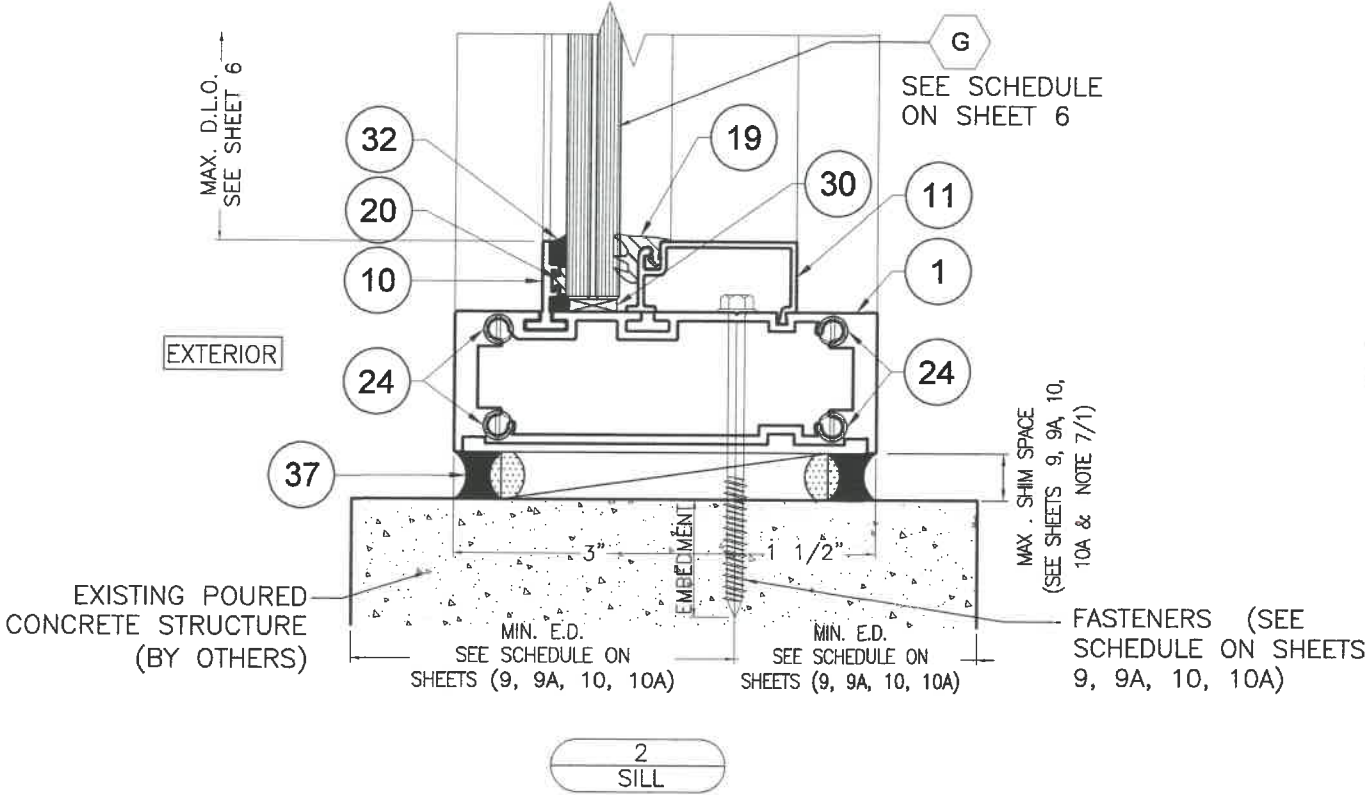
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SILL CONNECTION DETAILS W/ LAMINATED GLASS



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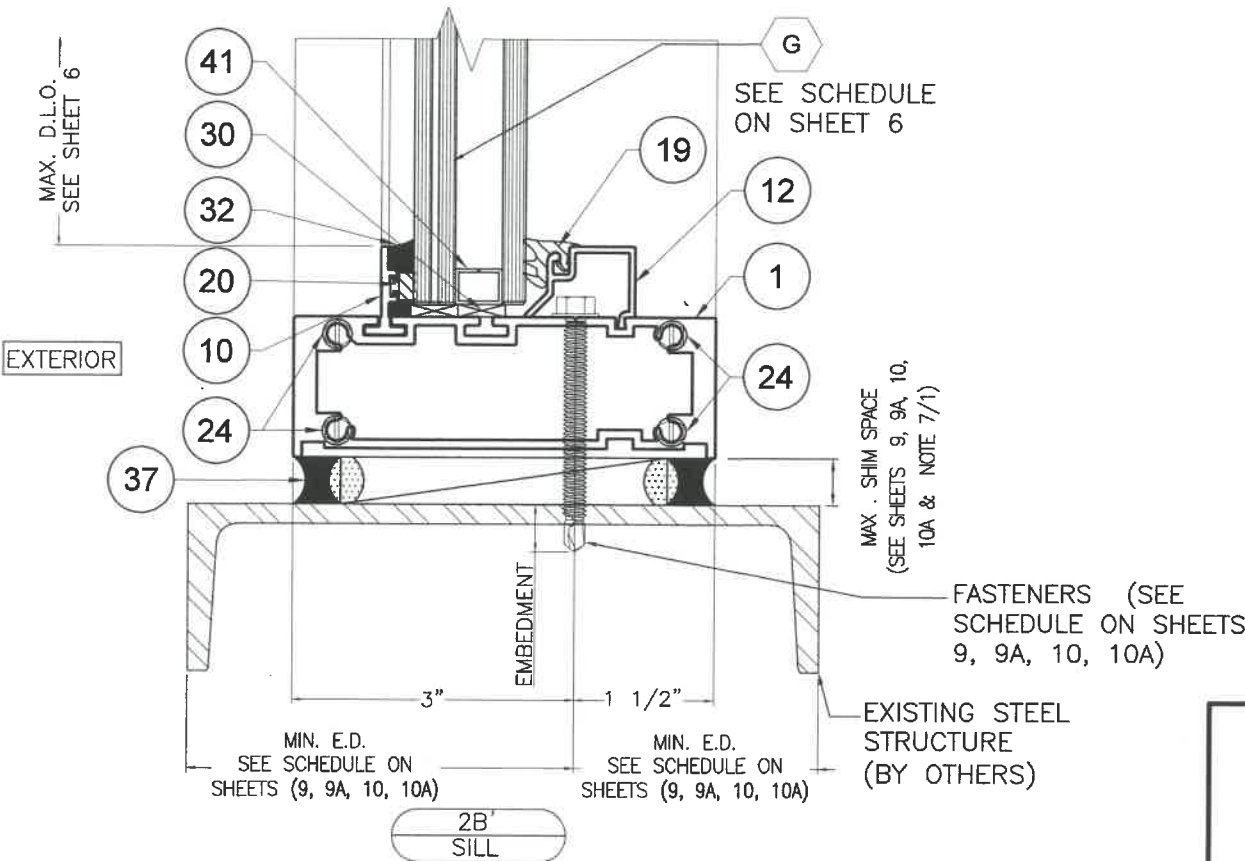
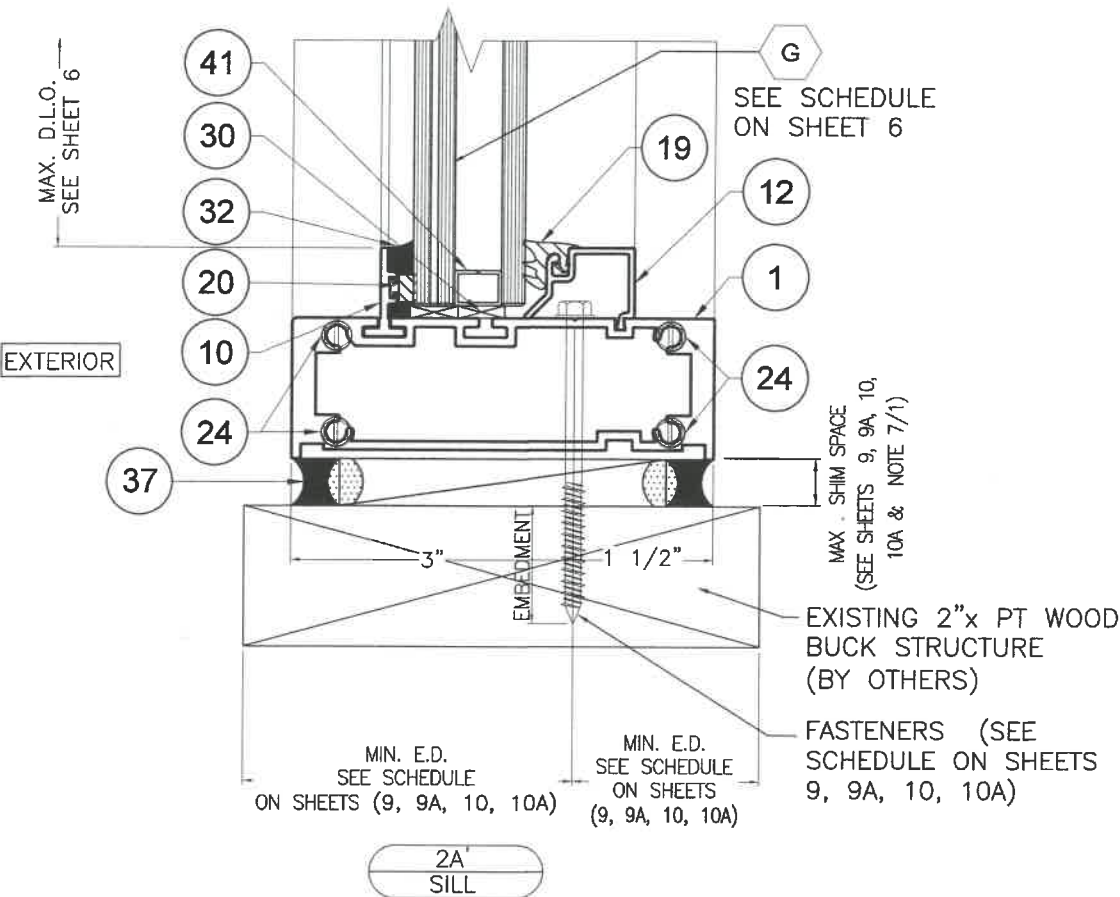
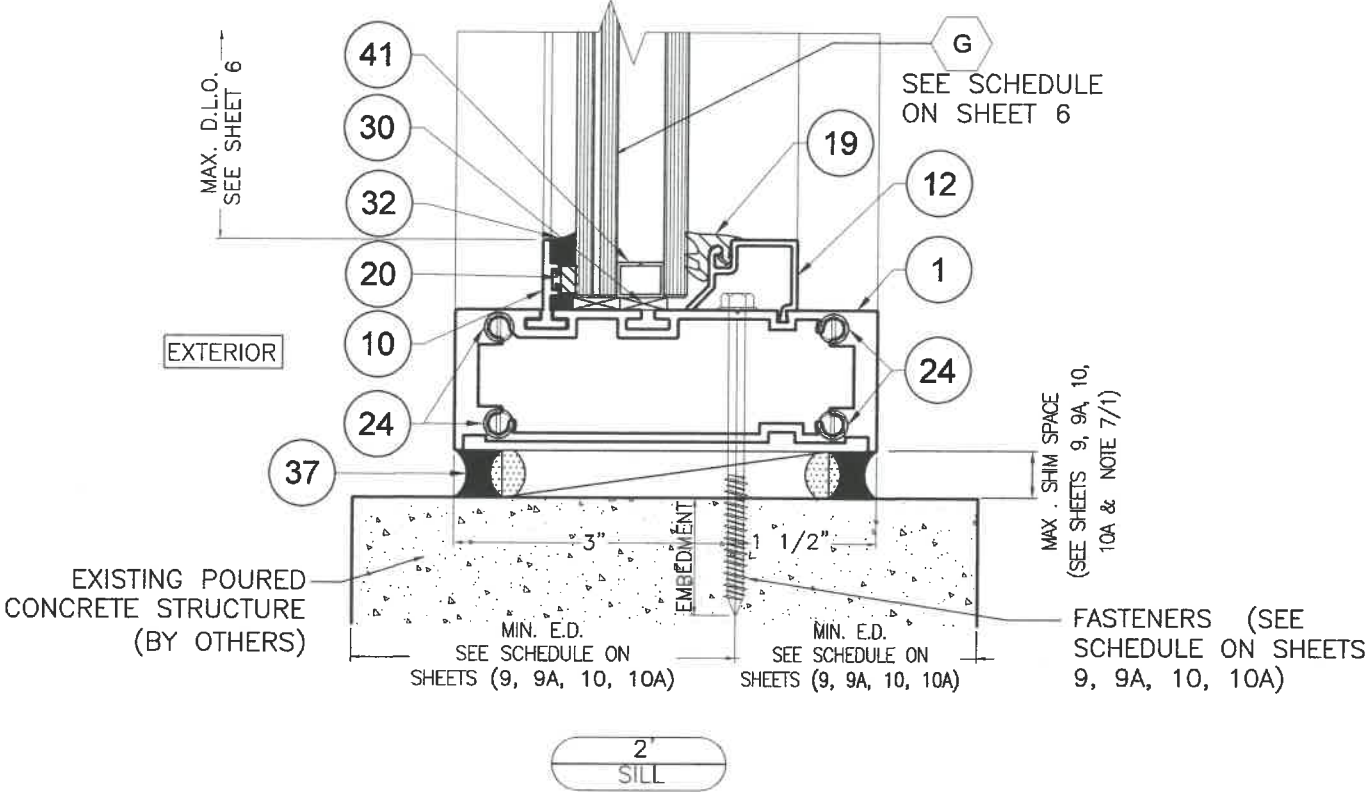
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SILL CONNECTION DETAILS W/ INSULATED GLASS



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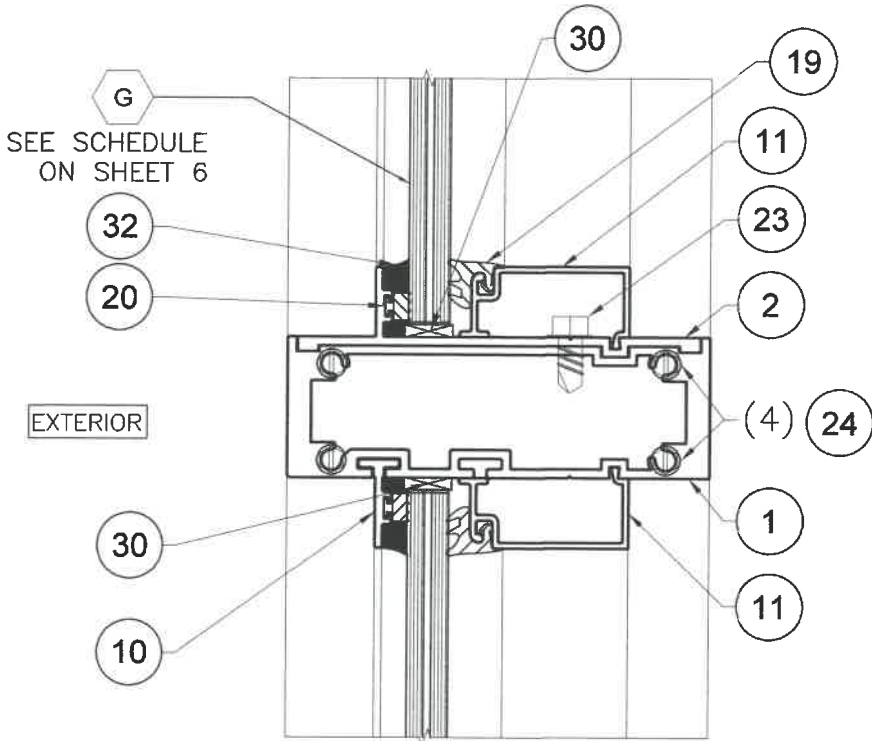
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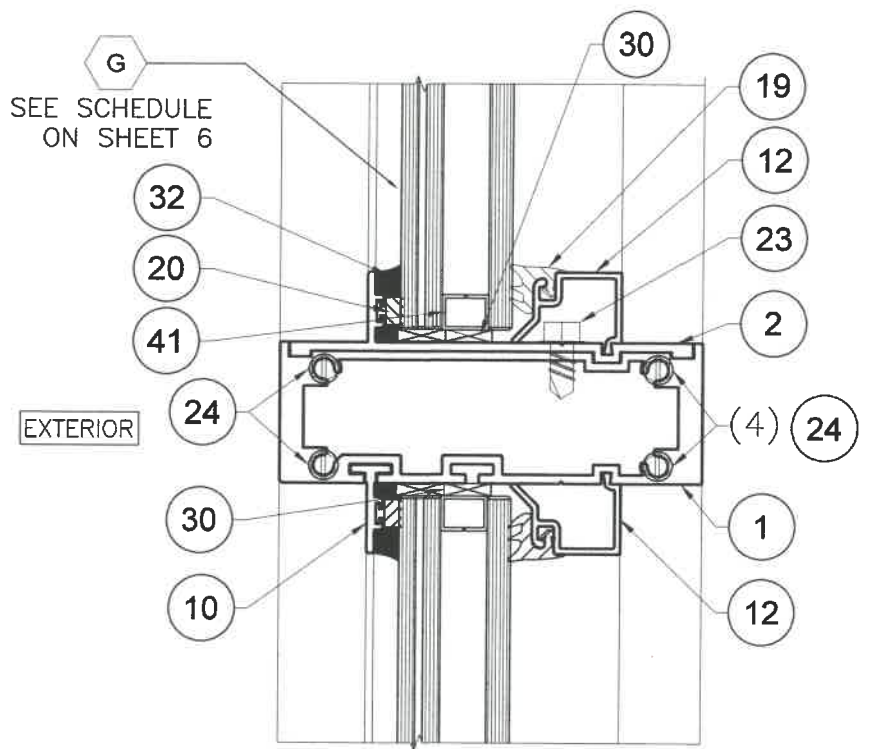
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SHEET 15 OF 21

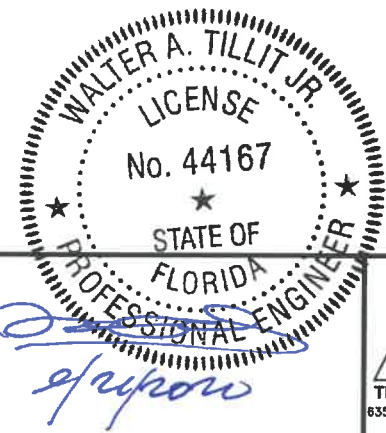
HORIZONTAL MULLION DETAILS



3
HORIZONTAL MULLION
W/ LAMINATED GLASS



3'
HORIZONTAL MULLION
W/ INSULATED GLASS



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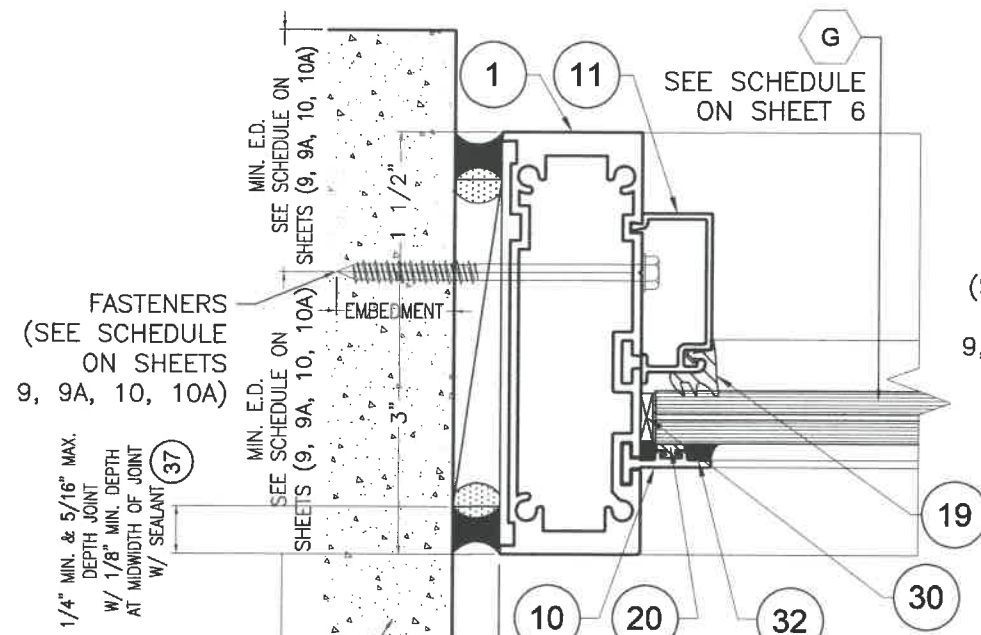
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HIALEAH GARDENS, FL. 33018
PHONE: (305) 444-1198

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 19-029	08/03/20	2	-	-

F.P.
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08/03/2020
DATE
20-225
DRAWING No
SHEET 16 OF 21

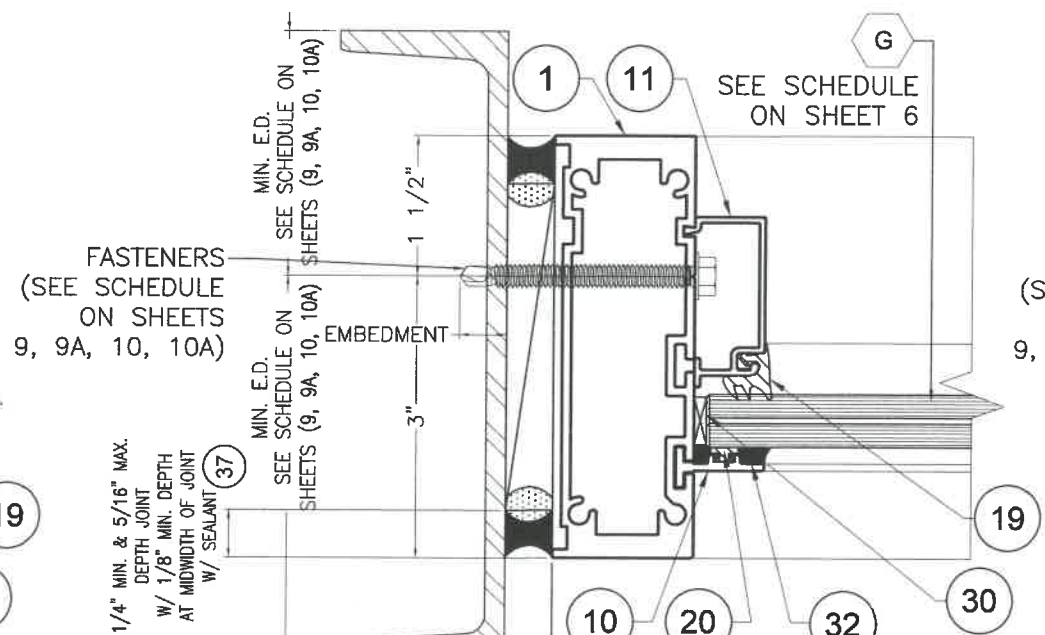


EXISTING POURED CONCRETE OR GROUT FILLED CONCRETE BLOCK STRUCTURE (BY OTHERS)

MAX. SHIM SPACE (SEE SHEET 11 & NOTE 7/1)

EXTERIOR

4 ATTACHED JAMB

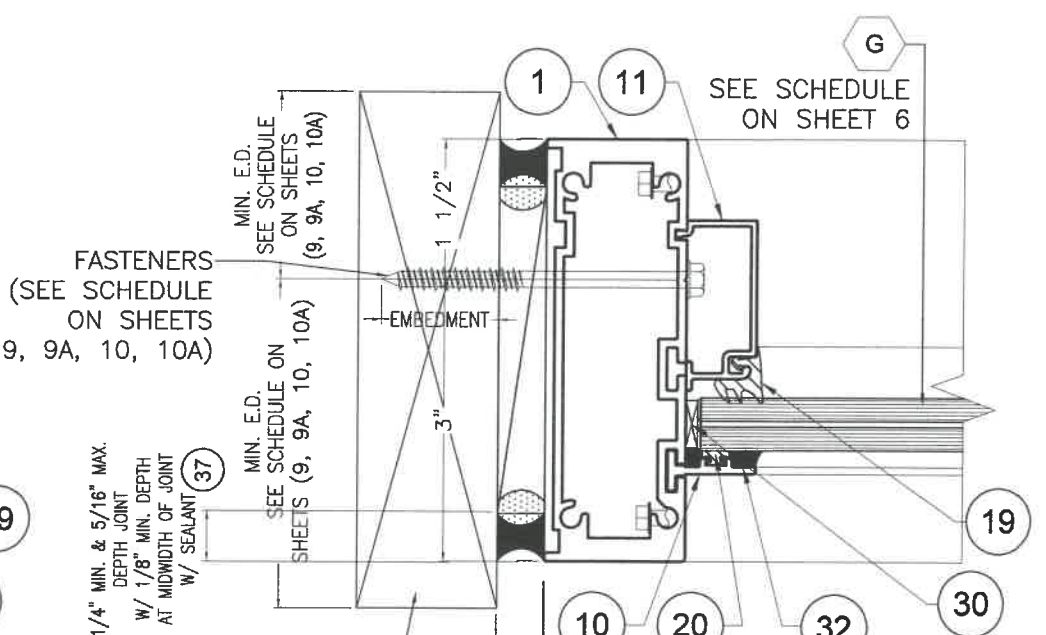


EXISTING STEEL STRUCTURE (BY OTHERS)

MAX. SHIM SPACE (SEE SHEET 11 & NOTE 7/1)

EXTERIOR

4A ATTACHED JAMB

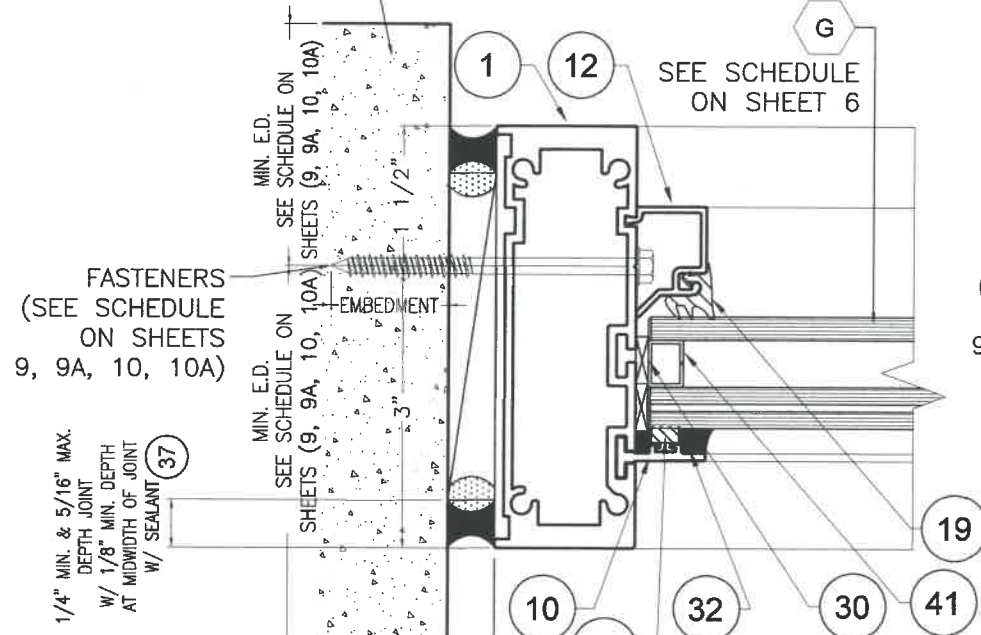


EXISTING 2"x PT WOOD BUCK STRUCTURE (BY OTHERS)

MAX. SHIM SPACE (SEE SHEET 11 & NOTE 7/1)

EXTERIOR

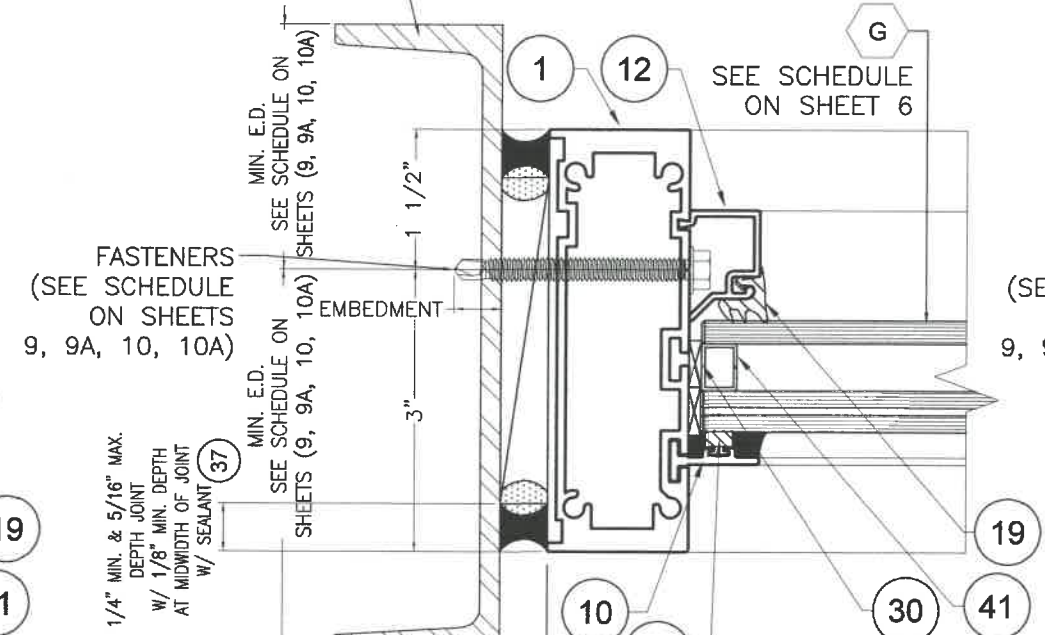
4B ATTACHED JAMB



MAX. SHIM SPACE (SEE SHEET 11 & NOTE 7/1)

EXTERIOR

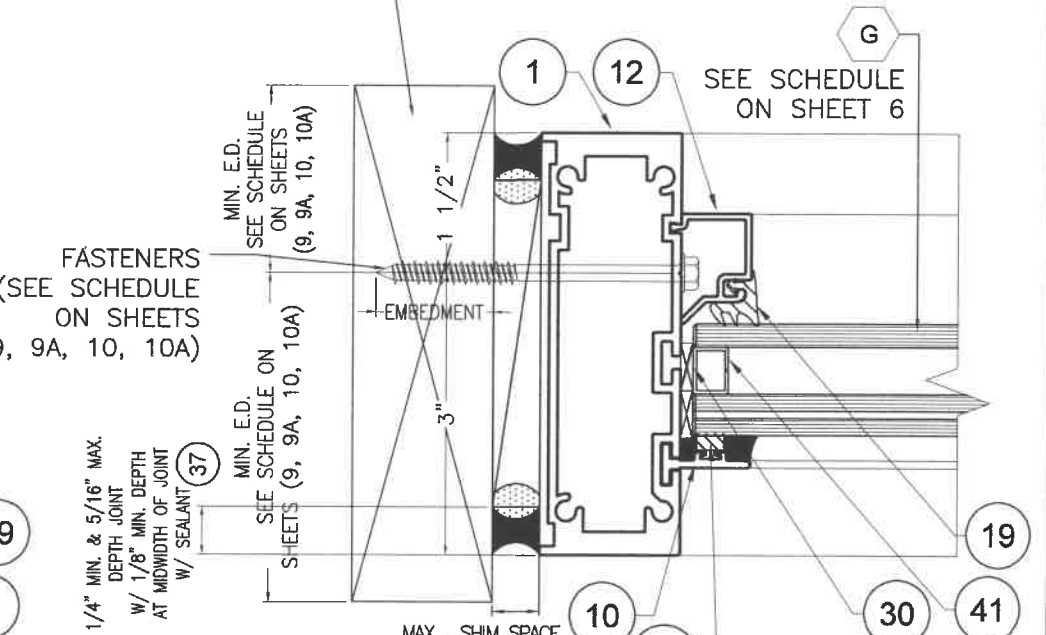
4' ATTACHED JAMB



MAX. SHIM SPACE (SEE SHEET 11 & NOTE 7/1)

EXTERIOR

4A' ATTACHED JAMB



MAX. SHIM SPACE (SEE SHEET 11 & NOTE 7/1)

EXTERIOR

4B' ATTACHED JAMB

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

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

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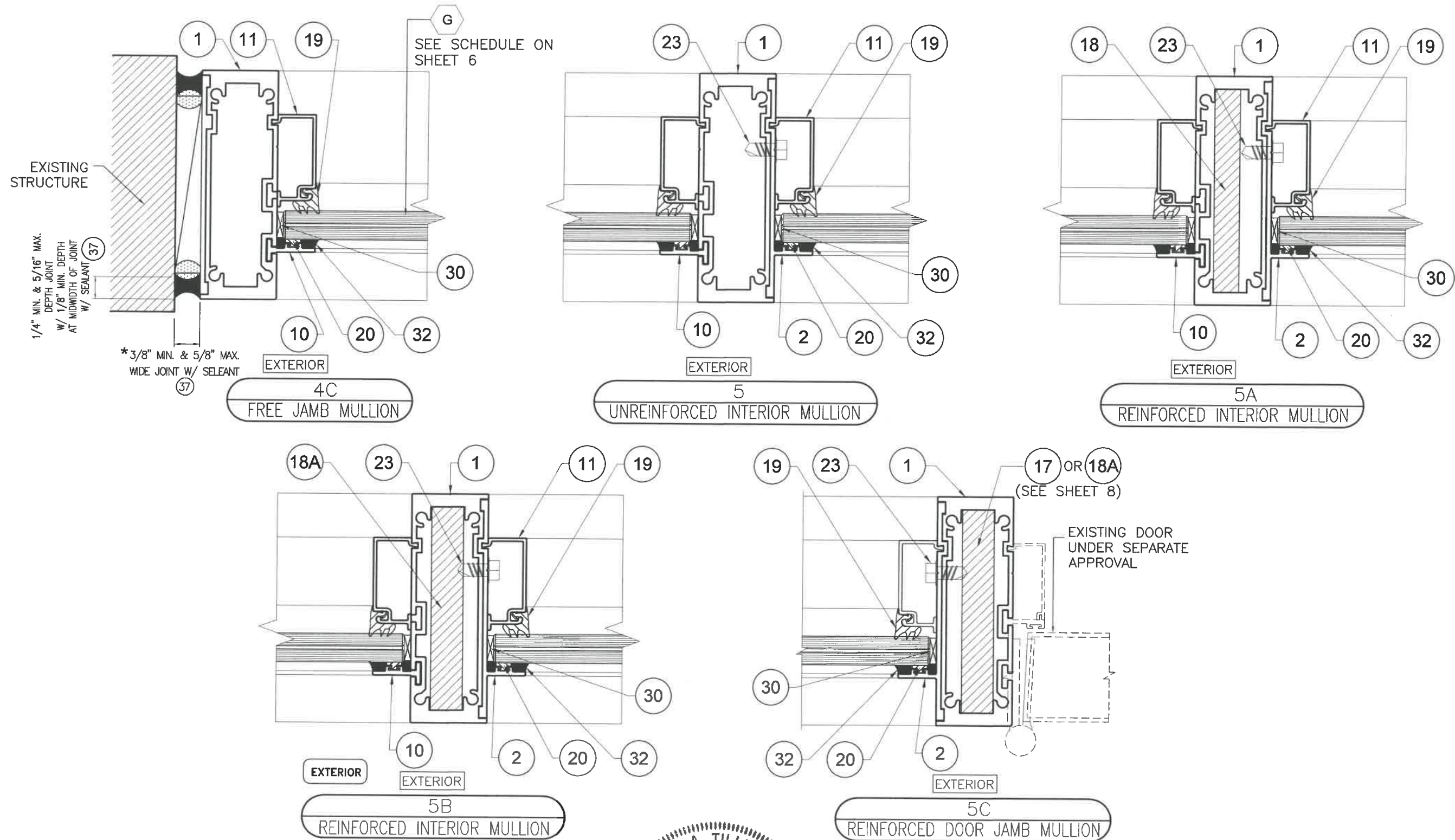
TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th. St., Ste. 305 - VIRGINIA GARDENS, FL 33166
Phone : (305) 871-1530 , Fax : (305) 871-1531
e-mail: tiltenco@aol.com
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

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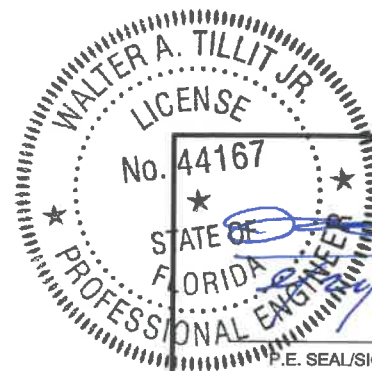
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1	OLD 19-029	08/03/20	2	-	-

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20-225 DRAWING No
SHEET 17 OF 21



* NOTE: INDICATED MAXIMUM AND MINIMUM VALUES FOR SPECIFIED SEALANT VERTICAL JOINT WIDTH AT JAMBS CONNECTED & NOT CONNECTED TO WALL (FREE STANDING) HAVE BEEN DETERMINED ONLY TAKING INTO CONSIDERATION THE ACTUAL MOVEMENT OF GLASS WALL AT JAMBS DUE TO THERMAL, WIND AND ITS OWN CONSTRUCTION TOLERANCE, AND NOT PERFORMANCE FACTORS FROM THE SURROUNDING STRUCTURE.



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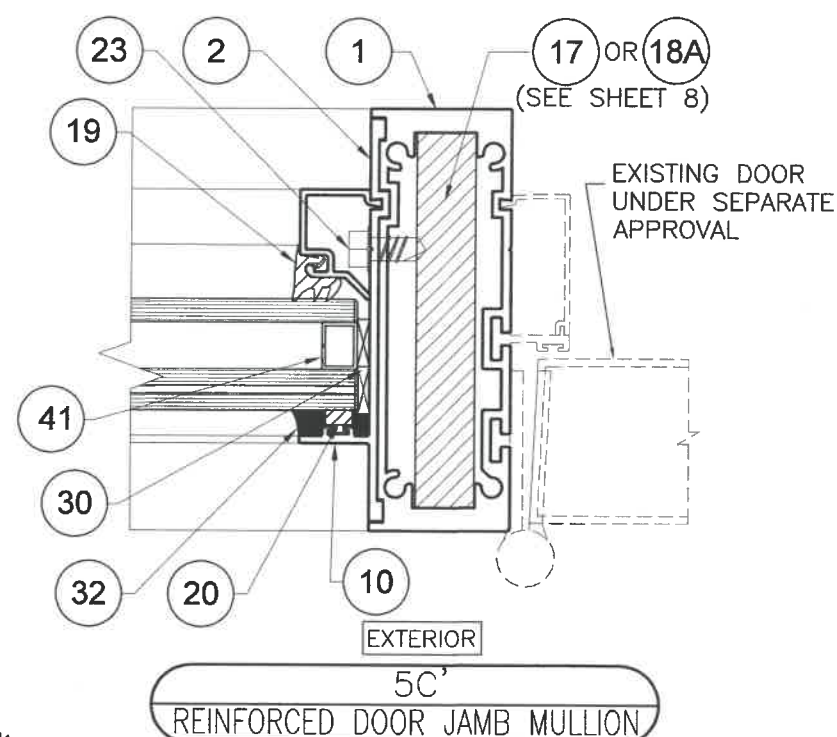
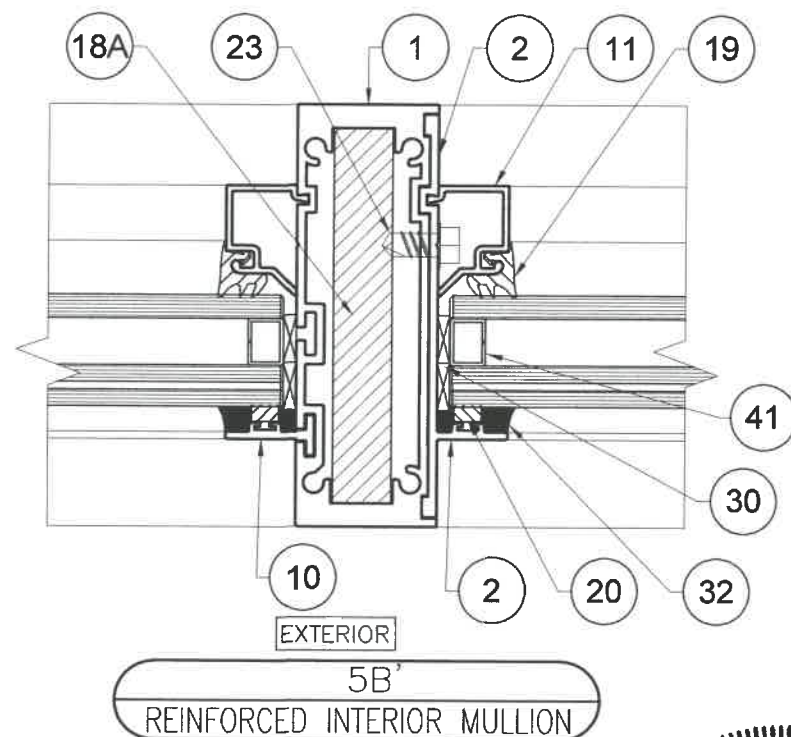
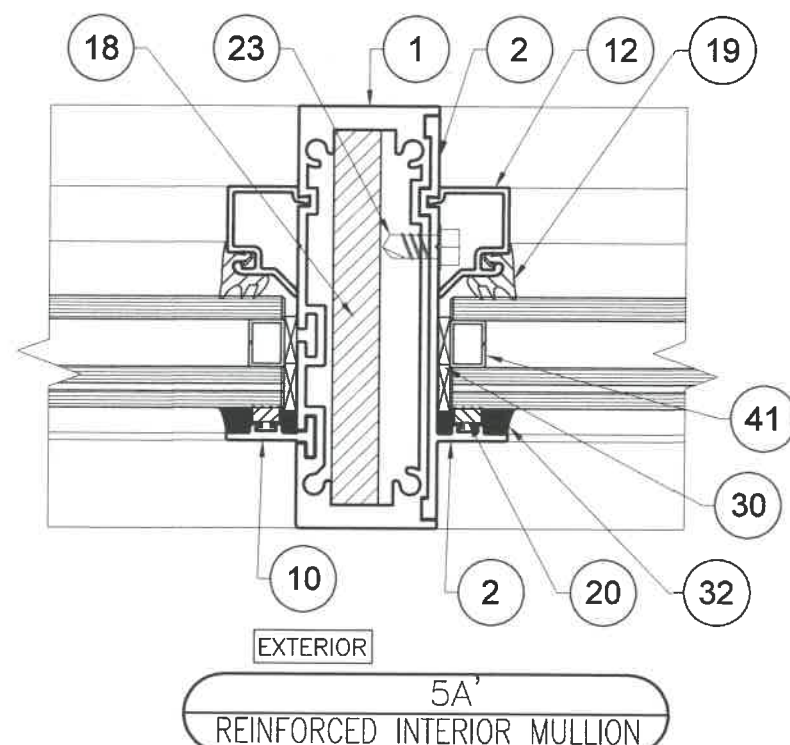
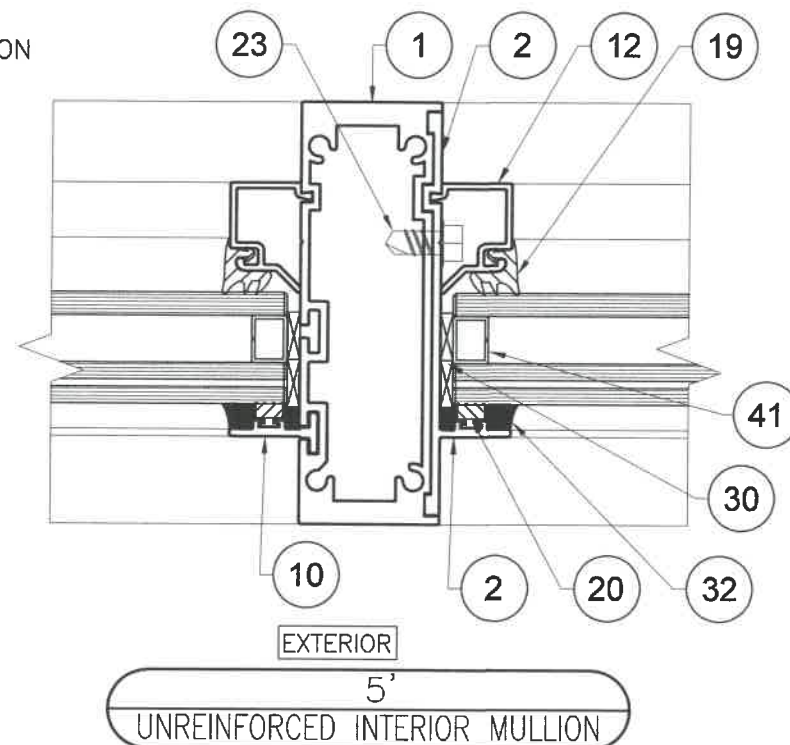
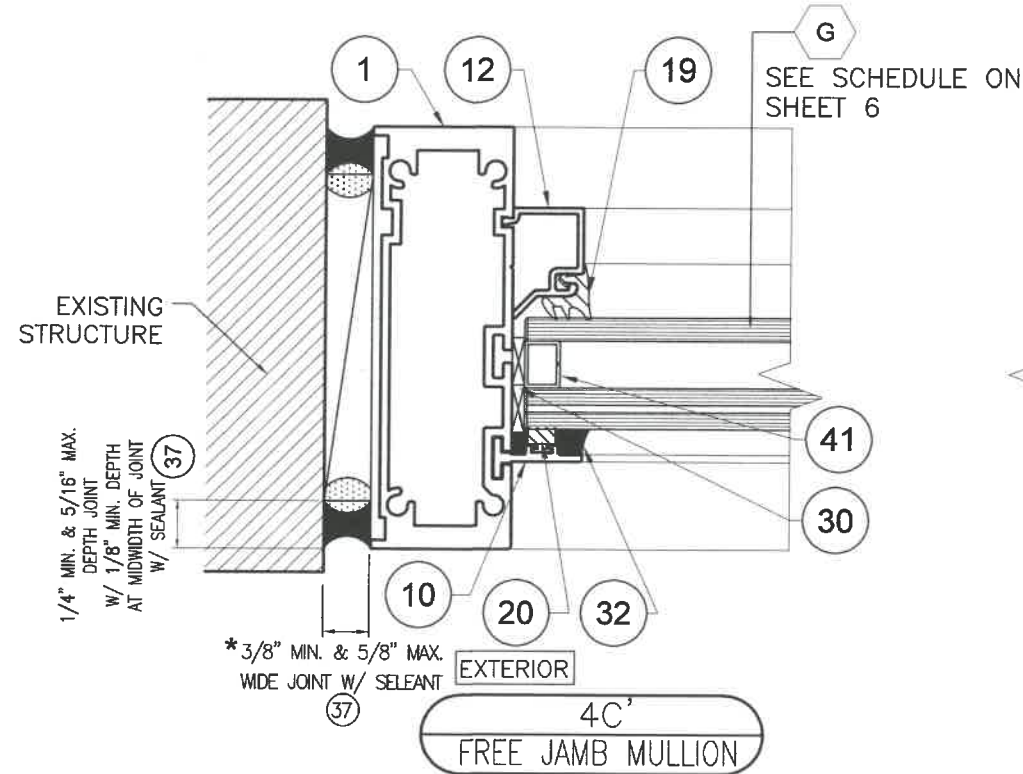
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DATE

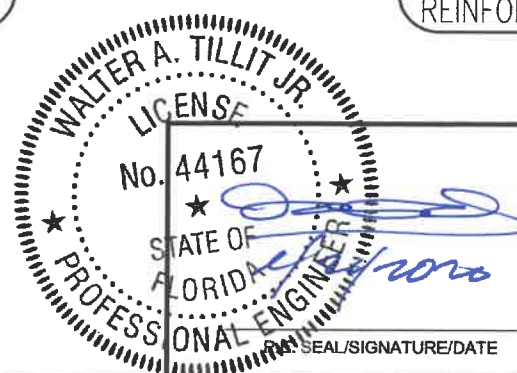
20-225
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SHEET 18 OF 21



* NOTE: INDICATED MAXIMUM AND MINIMUM VALUES FOR SPECIFIED SEALANT VERTICAL JOINT WIDTH AT JAMBS CONNECTED & NOT CONNECTED TO WALL (FREE STANDING) HAVE BEEN DETERMINED ONLY TAKING INTO CONSIDERATION THE ACTUAL MOVEMENT OF GLASS WALL AT JAMBS DUE TO THERMAL, WIND AND ITS OWN CONSTRUCTION TOLERANCE, AND NOT PERFORMANCE FACTORS FROM THE SURROUNDING STRUCTURE.



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e-mail: tilteco@aol.com

CA-0006719

WALTER A. TILLIT Jr., P.E.

FLORIDA Lic. # 44167

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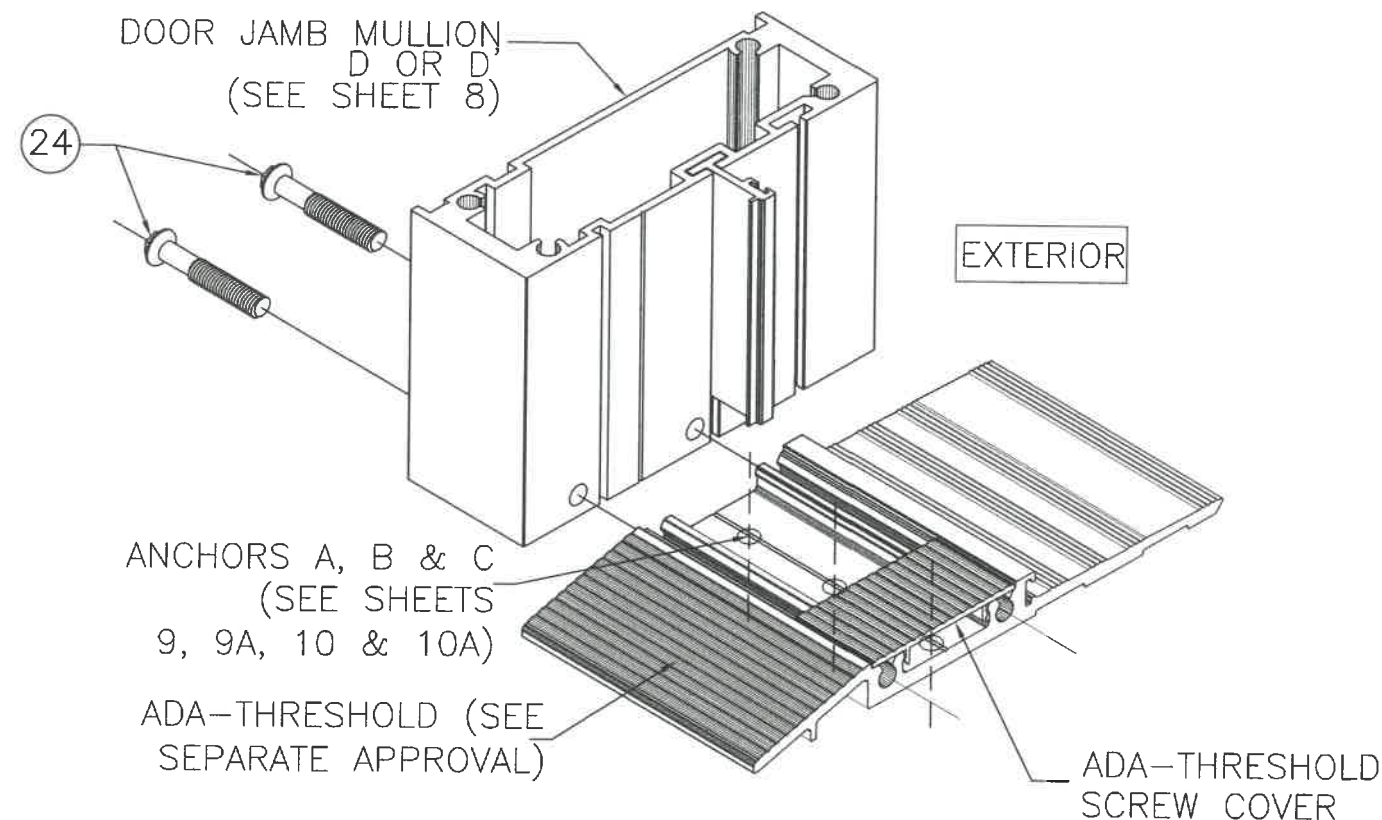
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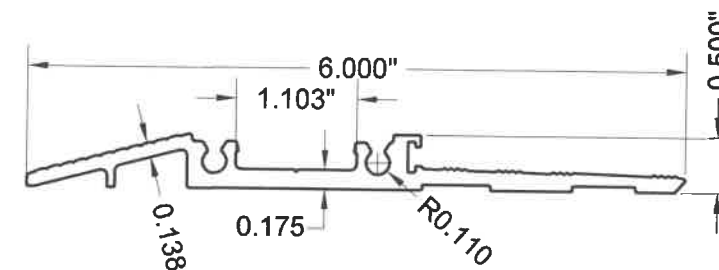
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DATE

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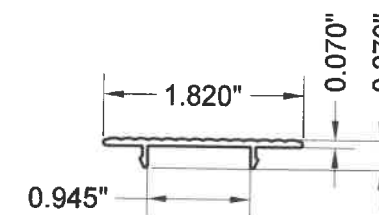
SHEET 19 OF 21



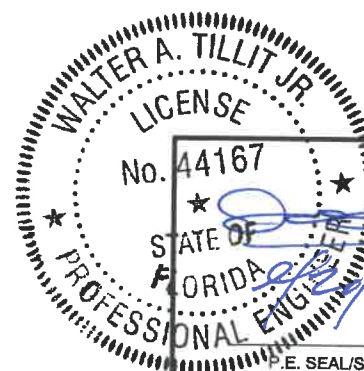
**THRESHOLD ASSEMBLY
(ISOMETRIC).**



**ADA-THRESHOLD
(SEE SEPARATE APPROVAL)
6063-T6 ALLOY**



**ADA-THRESHOLD SCREW COVER
6063-T6 ALLOY**



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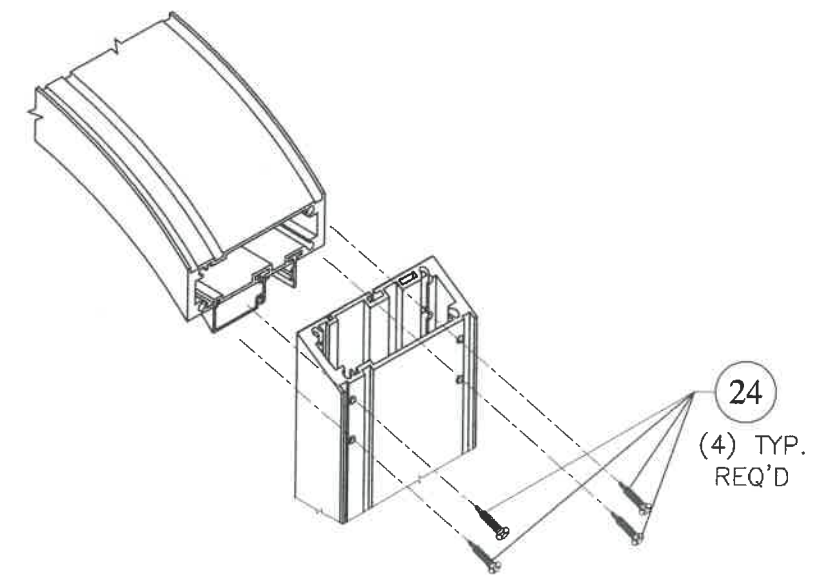
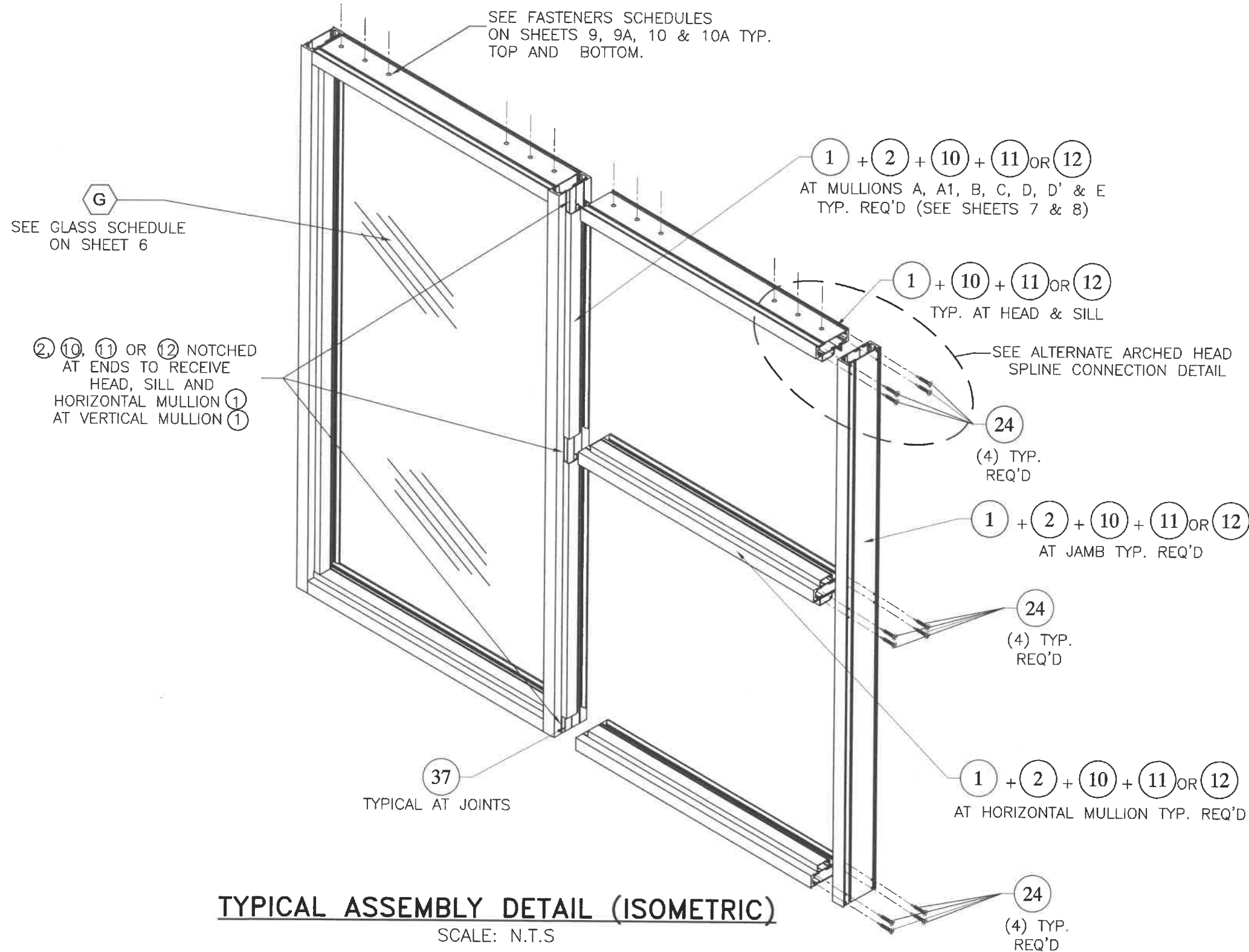
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08/03/2020
DATE

20-225
DRAWING No

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1	OLD 19-029	08/03/20	2	-	-

SHEET 20 OF 21

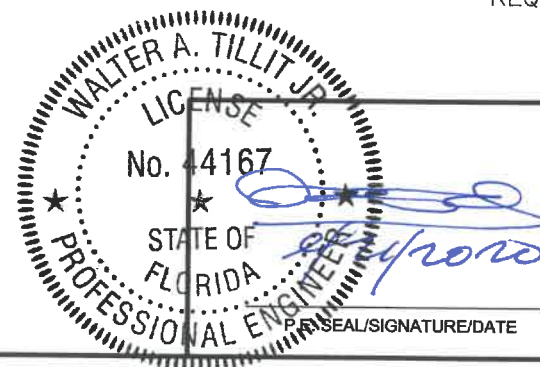


ARCHED HEAD SPLINE CONNECTION DETAIL

SCALE: N.T.S

TYPICAL ASSEMBLY DETAIL (ISOMETRIC)

SCALE: N.T.S



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ALUMINA DISTRIBUTION CENTER 15002 NW. 107 AVE. HIALEAH GARDENS, FL. 33018 PHONE: (305) 444-1198			08/03/2020 DATE		
REV. No 1 DESCRIPTION OLD 19-029 DATE 08/03/20			REV. No 2 DESCRIPTION - DATE -		
			20-225 DRAWING No SHEET 21 OF 21		