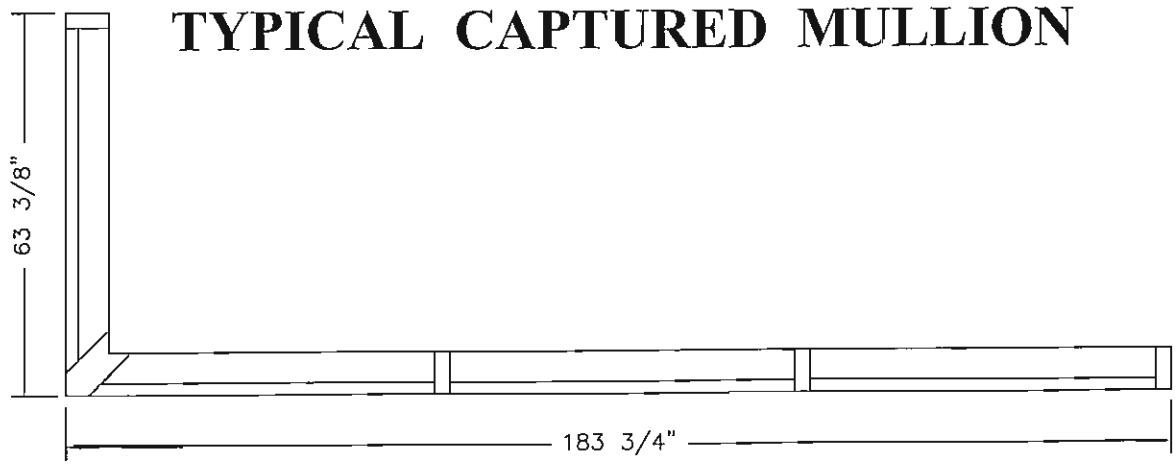


1 = LOCATE FASTENERS AS SHOWN IN APPLICABLE ANCHOR CHART FOR SINGLE SPAN

49 @ CENTER OF INTERM. VERT. AND HORIZ. TYP.

DENOTES OPTIONAL REINFORCEMENT WHERE REQUIRED

ELEVATION E1 TYPICAL CAPTURED MULLION



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Lewis A. Waldrop
2/28/07

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0 1'-4" 2'-8" 5'-4"
SCALE: 3/8" = 1'-0"

REV	BY	DATE	DESCRIPTION

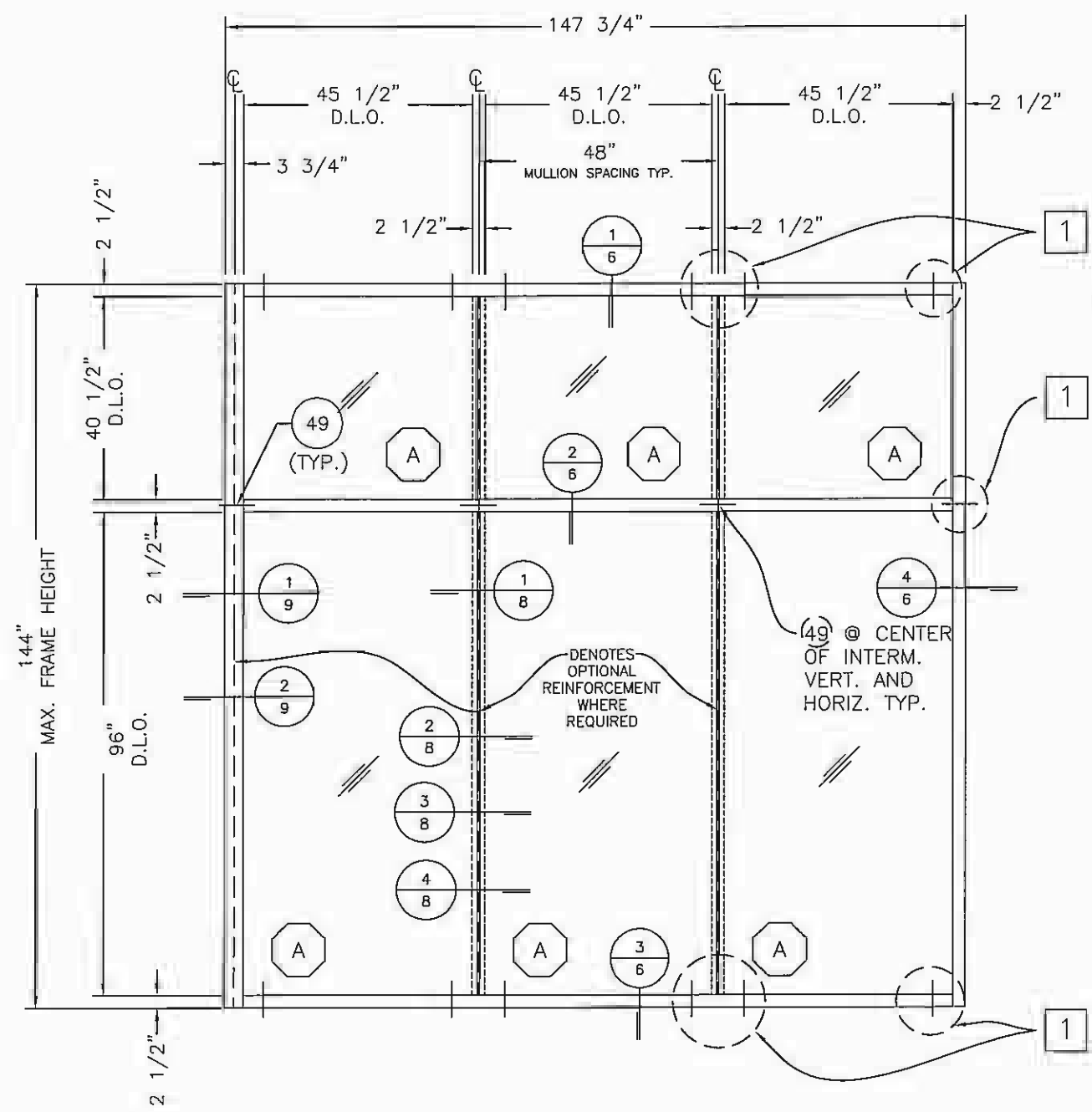
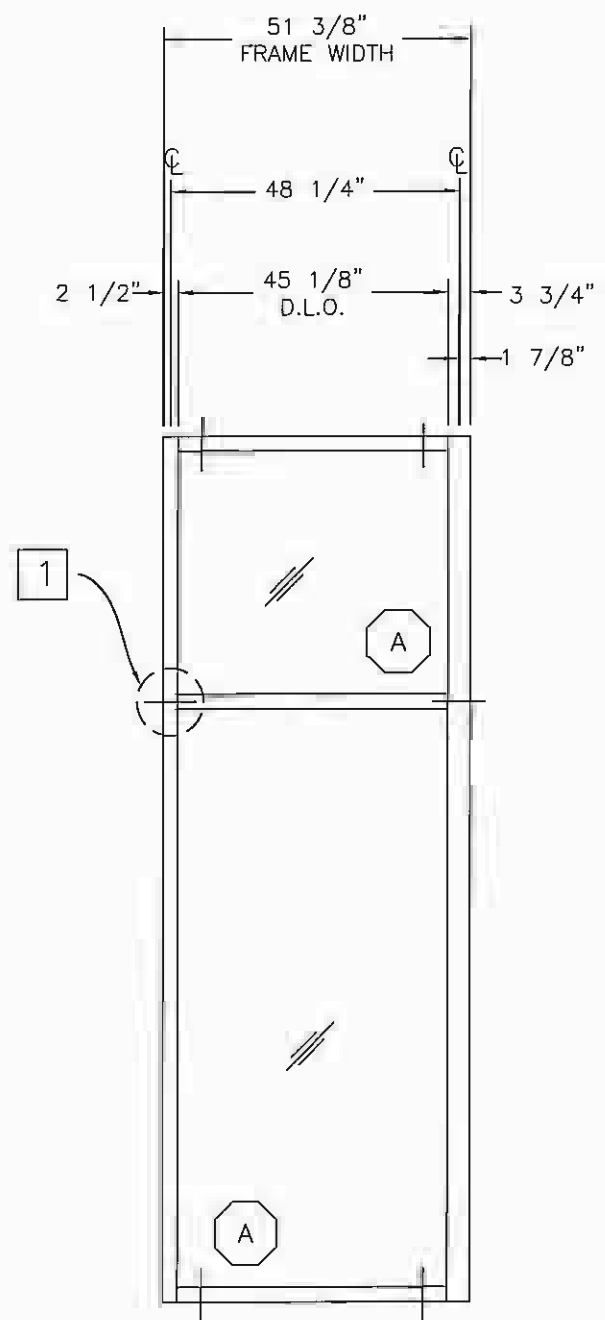
Coral
Architectural Products
3010 PACE MINE ROAD, TUSCALOOSA, AL 35405
PHONE: 800-772-7737 FAX: 800-255-7320

FLORIDA PRODUCT APPROVAL
FOR PW251 CURTAIN WALL -
B.G. AND CAPTURED
TYPICAL CAPTURED ELEVATION

DATE	2/27/2007	
DRAWN	CHECKED	APPROVED
PCH	JDW	JDW
PROJECT NO.	HTL	
DRAWING NO.	PW251-B	
SHEET	2 OF 35	

DRAWINGS FOR
FLORIDA
PRODUCT APPROVAL

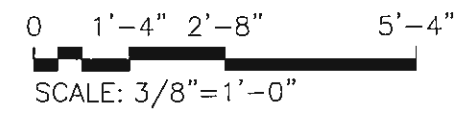
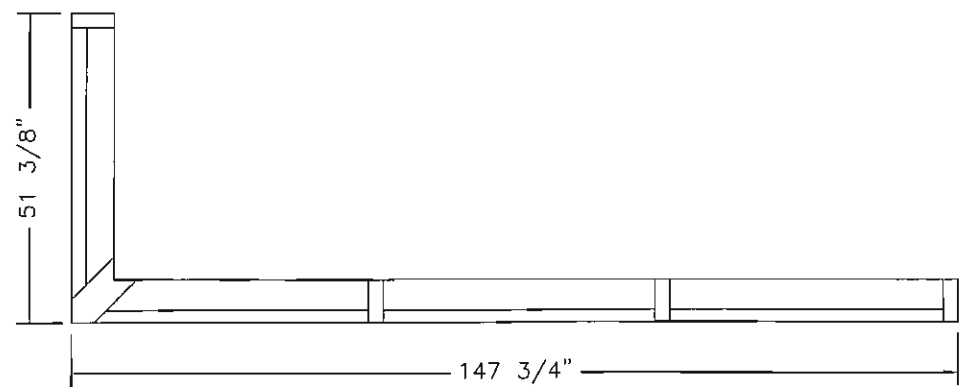
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1 = LOCATE FASTENERS AS SHOWN IN APPLICABLE ANCHOR CHART FOR SINGLE SPAN

49 @ CENTER OF INTERM. VERT. AND HORIZ. TYP.
DENOTES OPTIONAL REINFORCEMENT WHERE REQUIRED

ELEVATION E2 TYPICAL B.G. MULLION



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DRAWINGS FOR
FLORIDA
PRODUCT APPROVAL

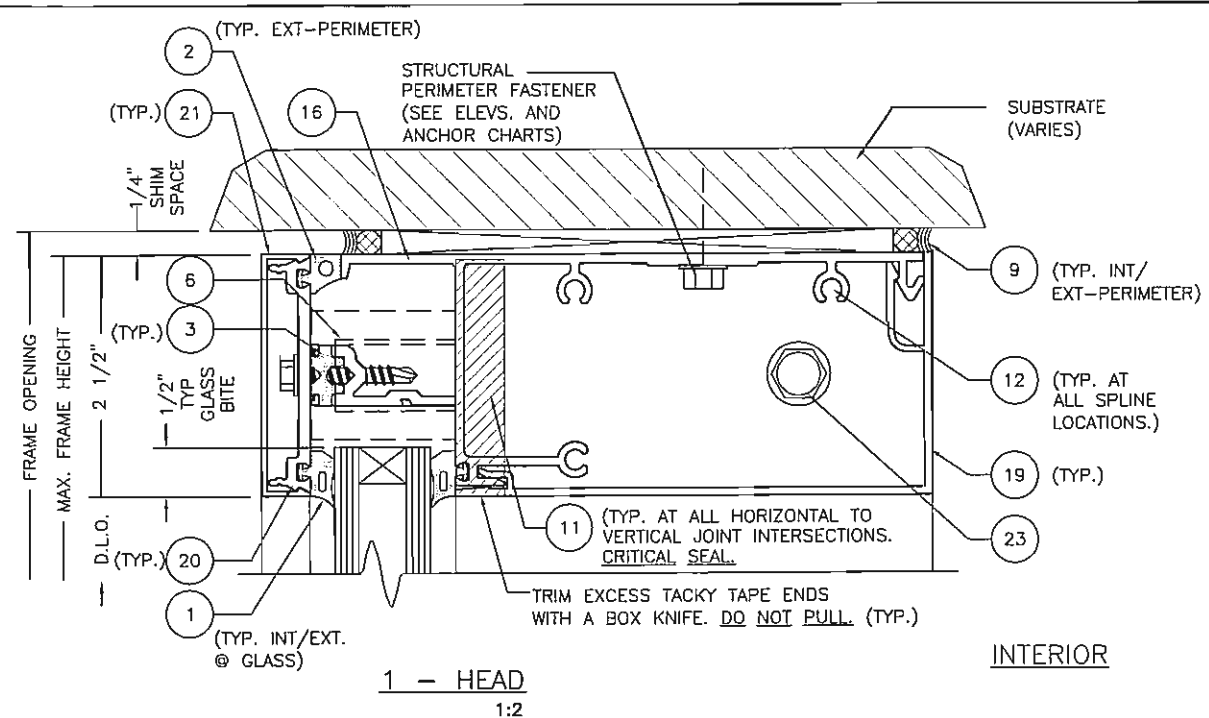
FLORIDA PRODUCT APPROVAL
FOR PW251 CURTAIN WALL -
B.G. AND CAPTURED
TYPICAL B.G. ELEVATION

DATE	2/7/2007	
DRAWN	CHECKED	APPROVED
PCH	JDW	JDW
PROJECT NO.	HTL	
DRAWING NO.	PW251-B	
SHEET	3 OF 35	

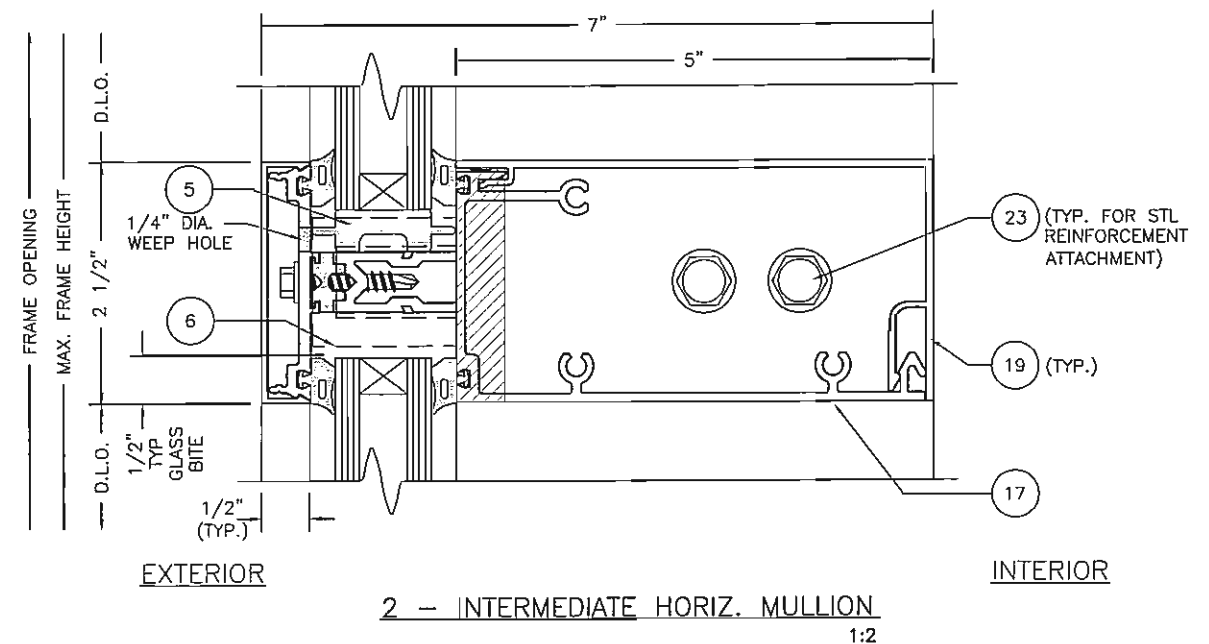
Coral
Architectural Products
3010 RICE MINE ROAD, TUSCALOOSA, AL 35406
PHONE: 800-772-7737 FAX: 800-255-7320

REV	BY	DATE	DESCRIPTION

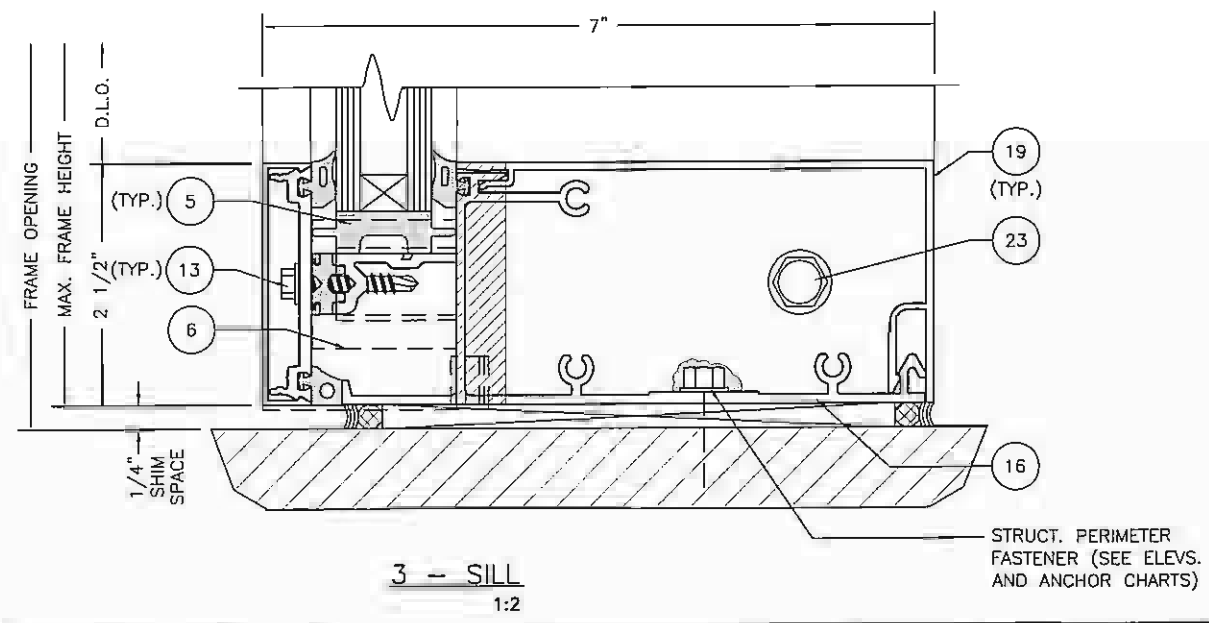
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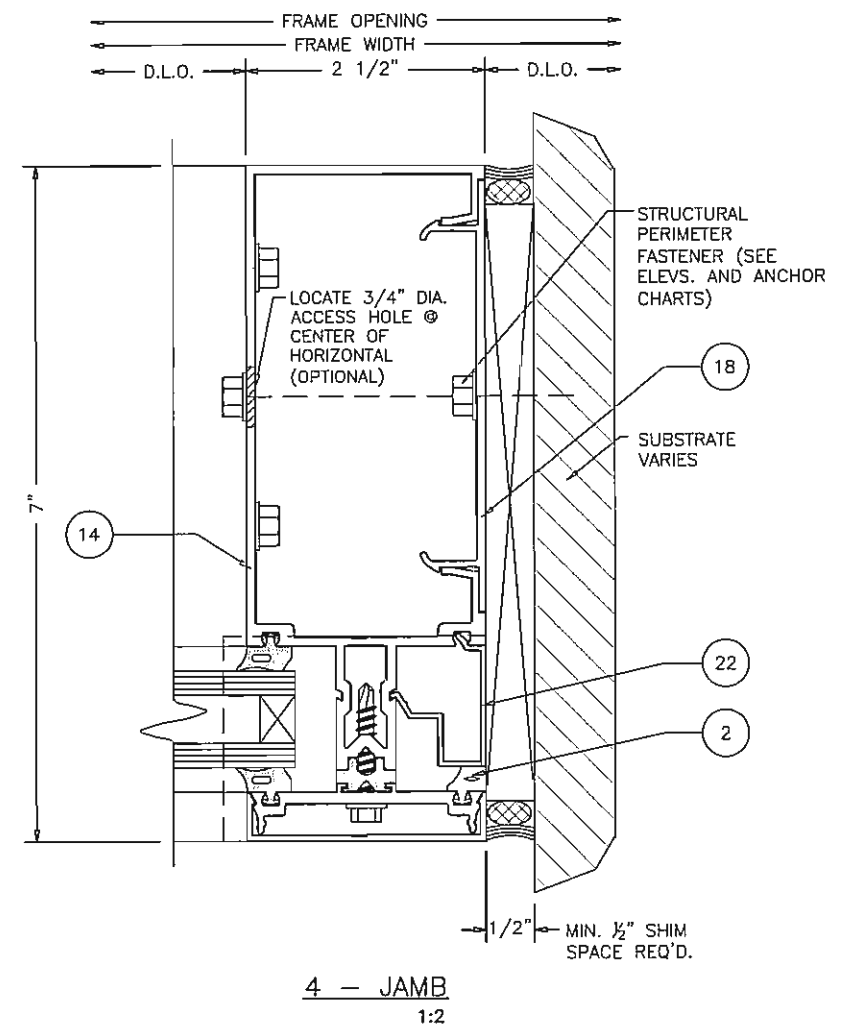
1 - HEAD
1:2



2 - INTERMEDIATE HORIZ. MULLION
1:2



3 - SILL
1:2



4 - JAMB
1:2

Lewis A. Waldrop
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FLORIDA PRODUCT APPROVAL
FOR PW251 CURTAIN WALL -
B.G. AND CAPTURED

FRAMING DETAILS

DATE			2/7/2007		
DRAWN	CHECKED	APPROVED			
PCH	JDW	JDW			
PROJECT NO.			FLORIDA APPROVAL		
DRAWING NO.			PW251-B		
SHEET			6 OF 35		

REV	BY	DATE	DESCRIPTION

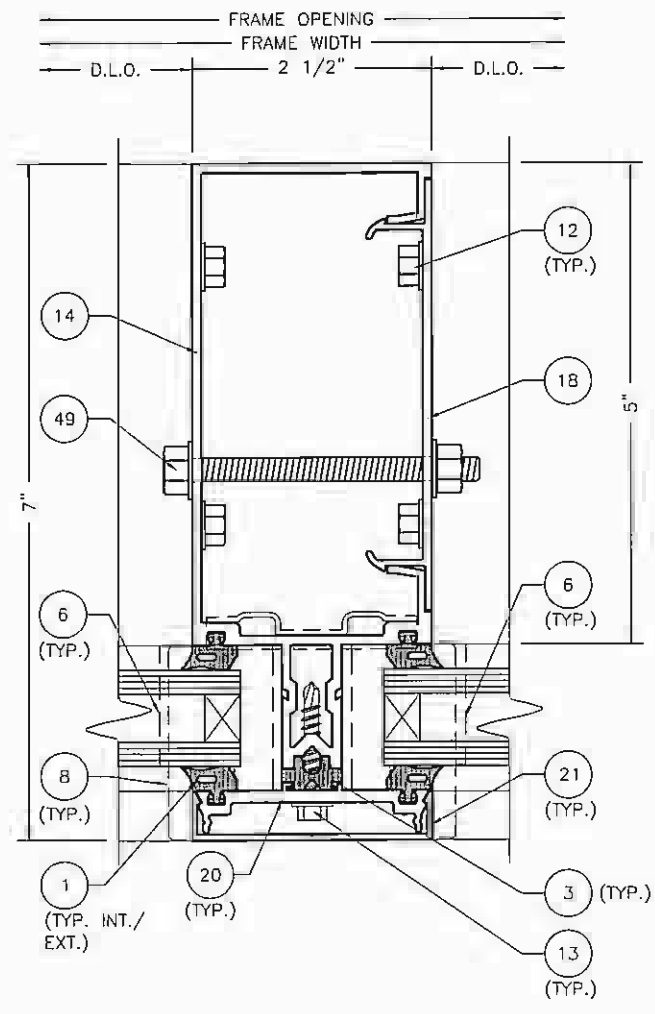
Coral

Architectural Products
3010 RICE MIKE ROAD, TUSCALOOSA, AL 35406
PHONE: 800-772-7737 FAX: 800-255-7320

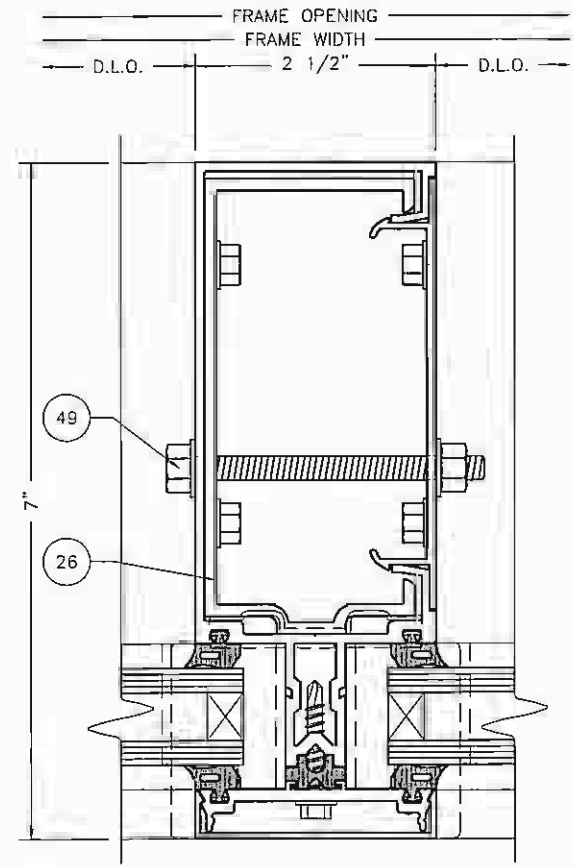
FLORIDA PRODUCT APPROVAL
FOR PW251 CURTAIN WALL -
B.G. AND CAPTURED

FRAMING DETAILS

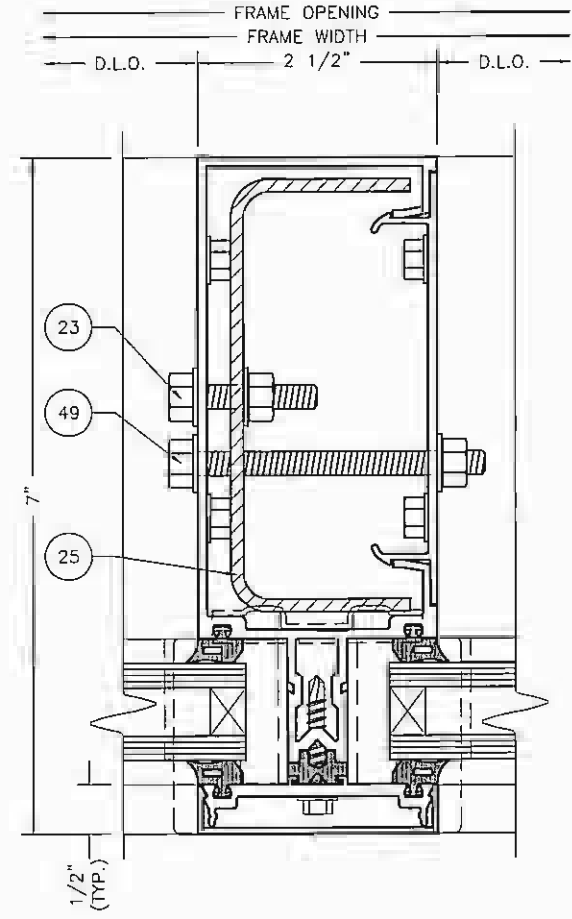
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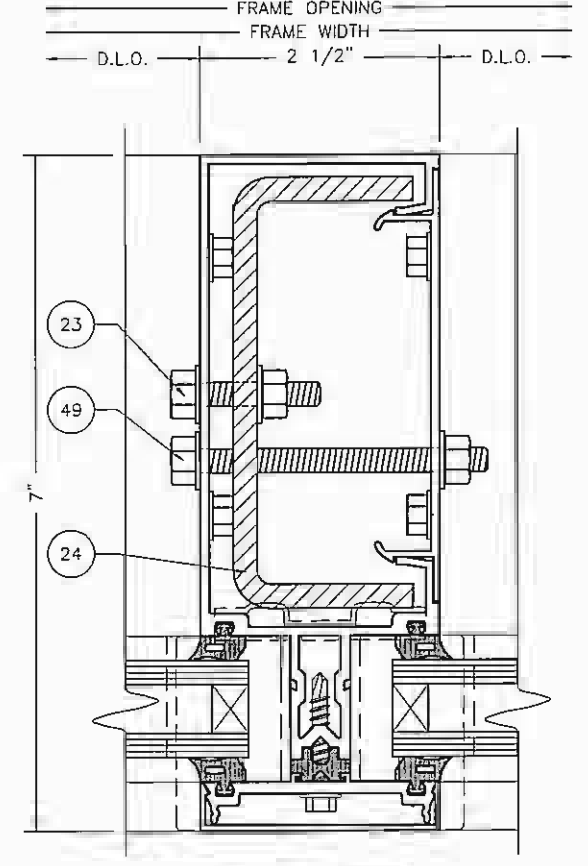
1 - VERT. MULLION
1:2



2 - VERT. MULLION WITH PW207 ALUM. REINFORCEMENT
1:2



3 - VERT. MULLION WITH SR151 STEEL
1:2



4 - VERT. MULLION WITH SR150 STEEL
1:2

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Lewis A. Waldrop

2-12-07

NOTE: SELECT APPROPRIATE MULLION FOR JOB CONDITIONS BASED ON APPLICABLE WIND LOAD AND ANCHOR CHARTS.

DRAWINGS FOR
FLORIDA
PRODUCT APPROVAL

REV	BY	DATE	DESCRIPTION

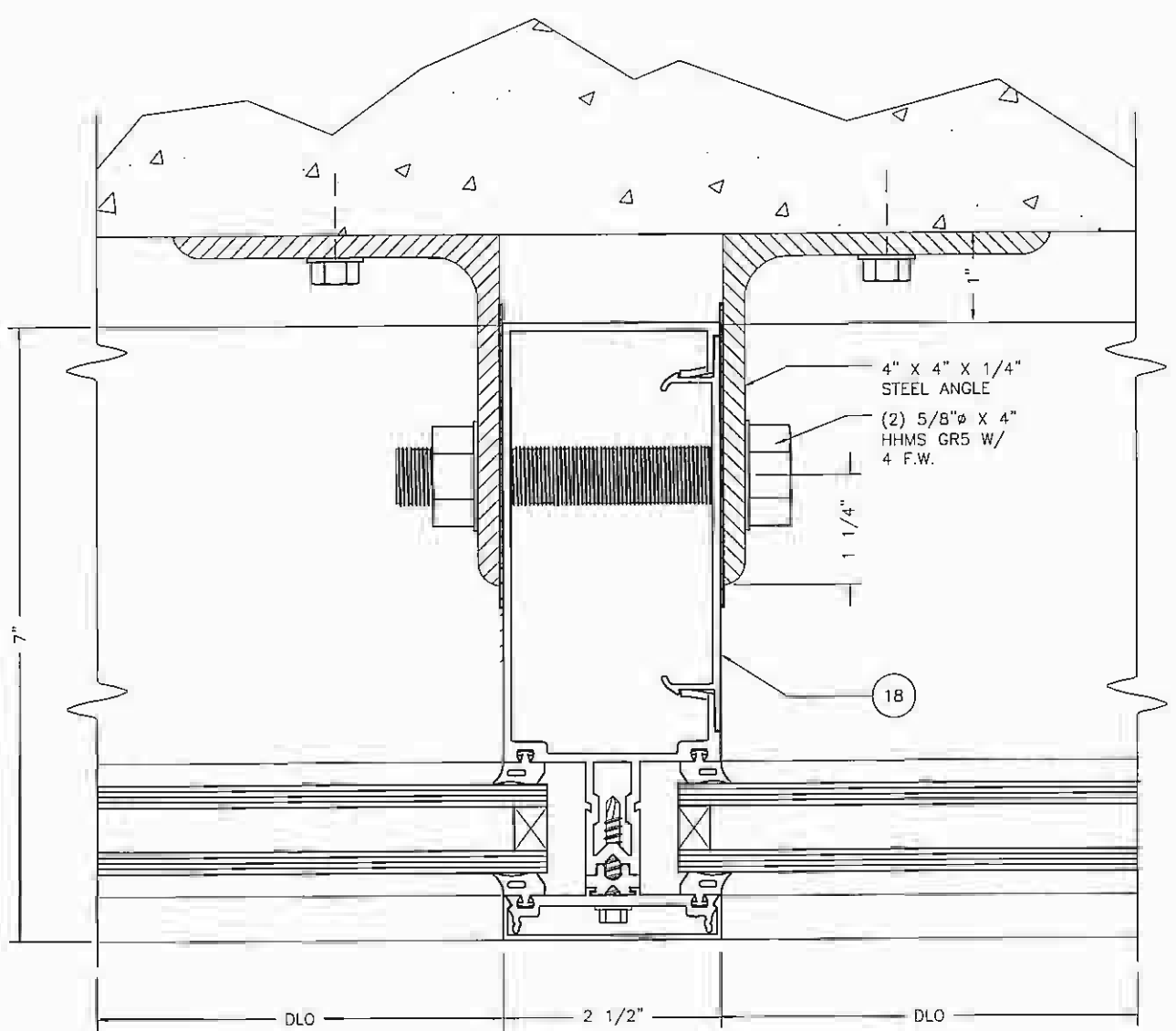
Coral
Architectural Products
3010 RICE MINE ROAD, TUSCALOOSA, AL 35408
PHONE: 800-772-7737 FAX: 800-255-7320

FLORIDA PRODUCT APPROVAL
FOR PW251 CURTAIN WALL -
B.G. AND CAPTURED

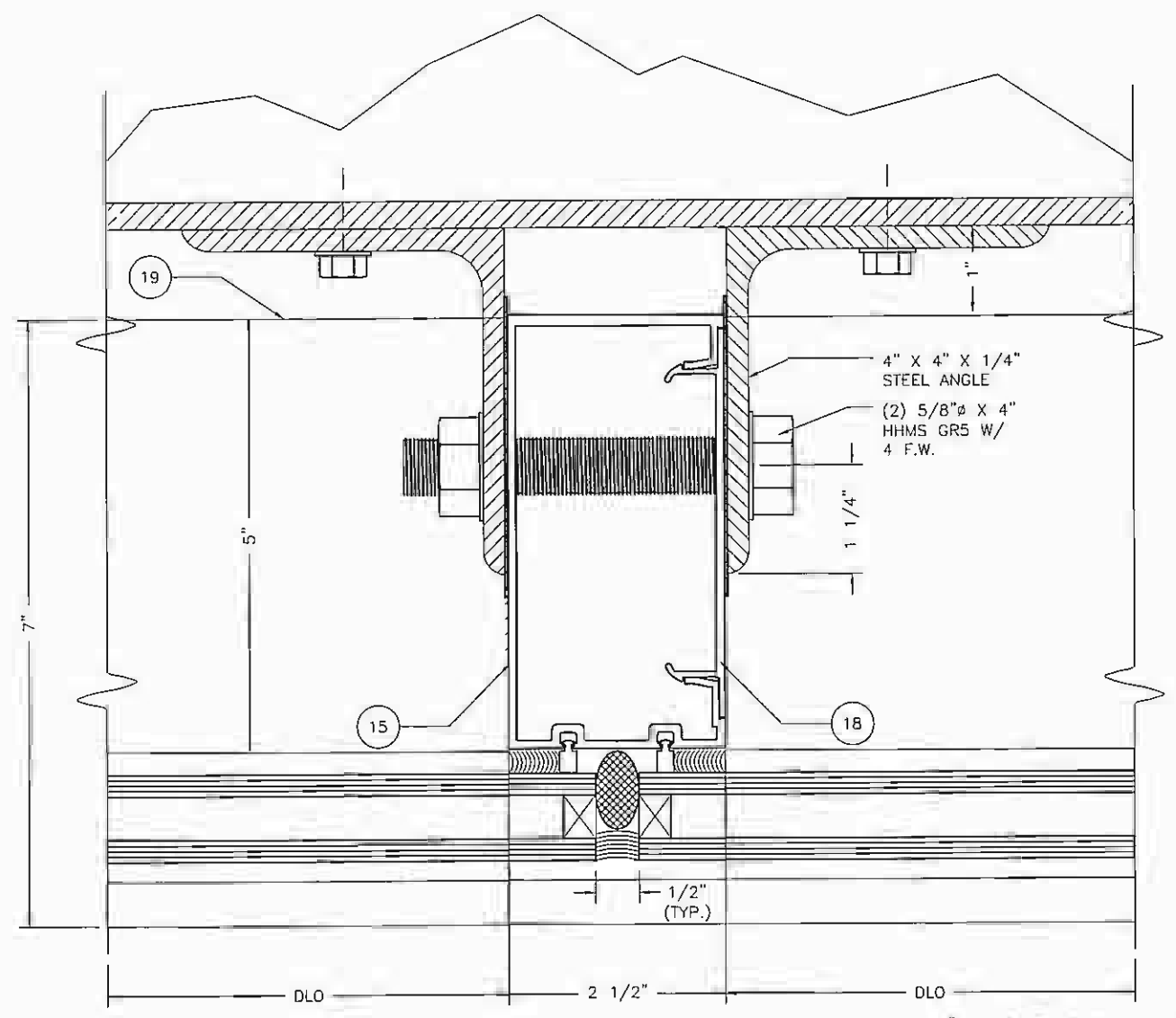
FRAMING DETAILS

DATE	2/7/2007	
DRAWN	CHECKED	APPROVED
PCH	JDW	JDW
PROJECT NO.	FLORIDA APPROVAL	
DRAWING NO.	PW251-B	
SHEET	7 OF 35	

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1 - VERTICAL MULLION TO CONCRETE
 REF. DETAIL "A" OR "B"
 SHEET A6
 1:2



2 - B.G. VERTICAL MULLION TO STEEL STRUCTURE
 REF. DETAIL "A" OR "B"
 SHEET A6
 1:2

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 Alto, GA 30510
 706-778-3784

NOTE: SELECT APPLICABLE CONNECTION
 AND REFERENCE ANCHOR CHARTS FOR
 TWIN SPAN

Lewis A. Waldrop, P.E.
 FLA. P.E. #21950
LAWaldrop
 2-12-07

DRAWINGS FOR
 FLORIDA
 PRODUCT APPROVAL

FLORIDA PRODUCT APPROVAL FOR PW251

CURTAIN WALL -
 B.G. AND CAPTURED

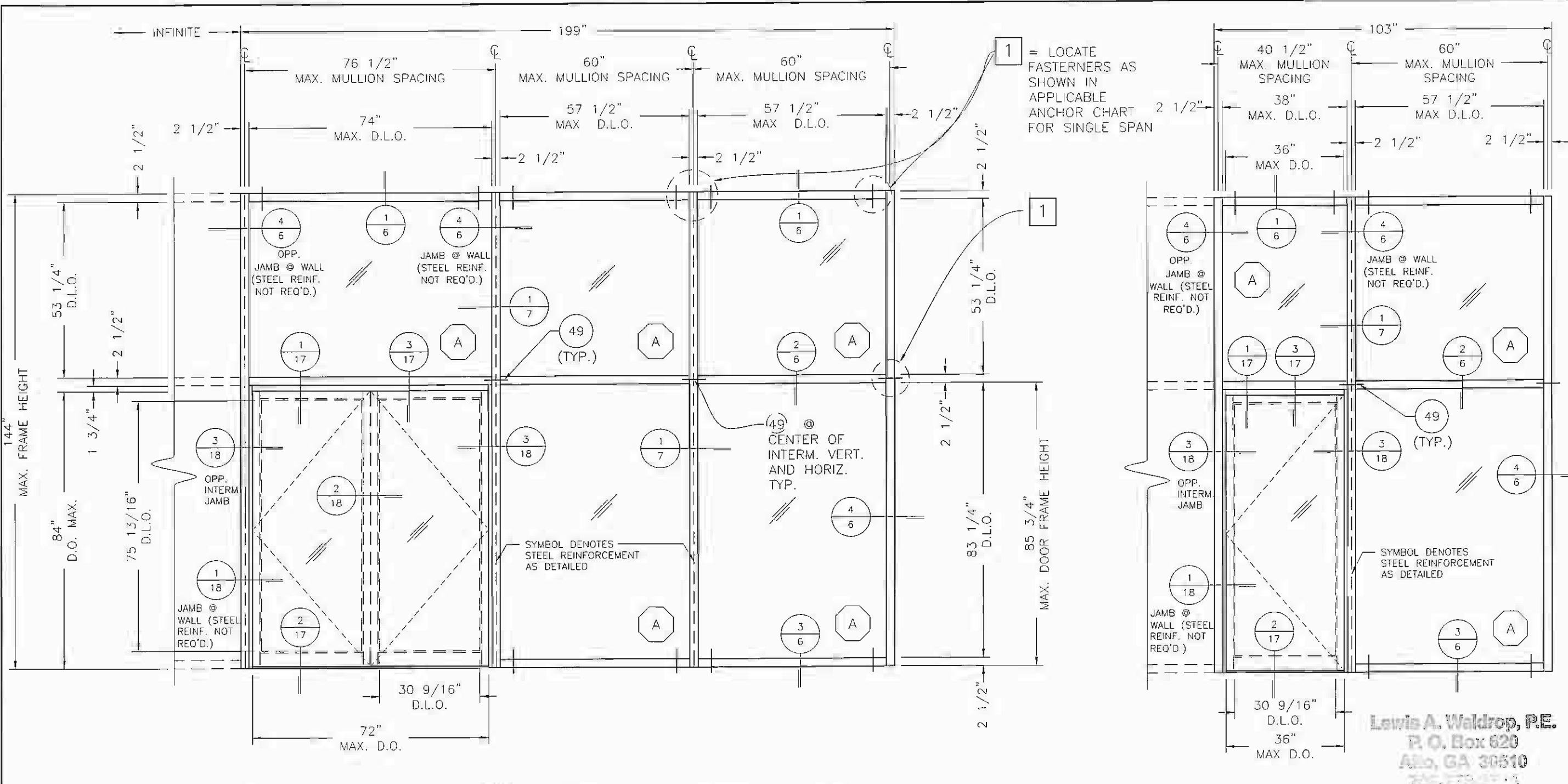
FRAMING DETAILS

DATE	2/7/2007	
DRAWN	CHECKED	APPROVED
PCH	JDW	JDW
PROJECT NO.	HTL	
DRAWING NO.	PW251-B	
SHEET	11 OF 35	

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 Architectural Products
 3010 RICE MINE ROAD, TUSCALOOSA, AL 35408
 PHONE: 800-772-7737 FAX: 800-255-7320

REV	BY	DATE	DESCRIPTION

S:\ASSEMBLIES & FABRICATION\C.A.P\MOCK-UPS\FPA\PW251\B.G. MULLION\14 DOOR AND FRAMING ELEVATIONS - CAPTURED.dwg, 2/7/2007 10:25:40 AM, mlawre, \lpp



TYPICAL PW251 FRAMING ELEVATIONS - CAPTURED WITH SERIES 213 DOORS

SERIES 213 NARROW STILE DOORS SHOWN. 380 MEDIUM AND 500 WIDE STILE DOORS MAY BE SUBSTITUTED IN ANY FRAME OPENING.

0 1'-4" 2'-8" 5'-4"
SCALE: 3/8" = 1'-0"

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FLA. P.E. #21959

Lewis A. Waldrop

2-12-07

DRAWINGS FOR
FLORIDA
PRODUCT APPROVAL

FLORIDA PRODUCT APPROVAL
FOR PW251 CURTAIN WALL -
B.G. AND CAPTURED

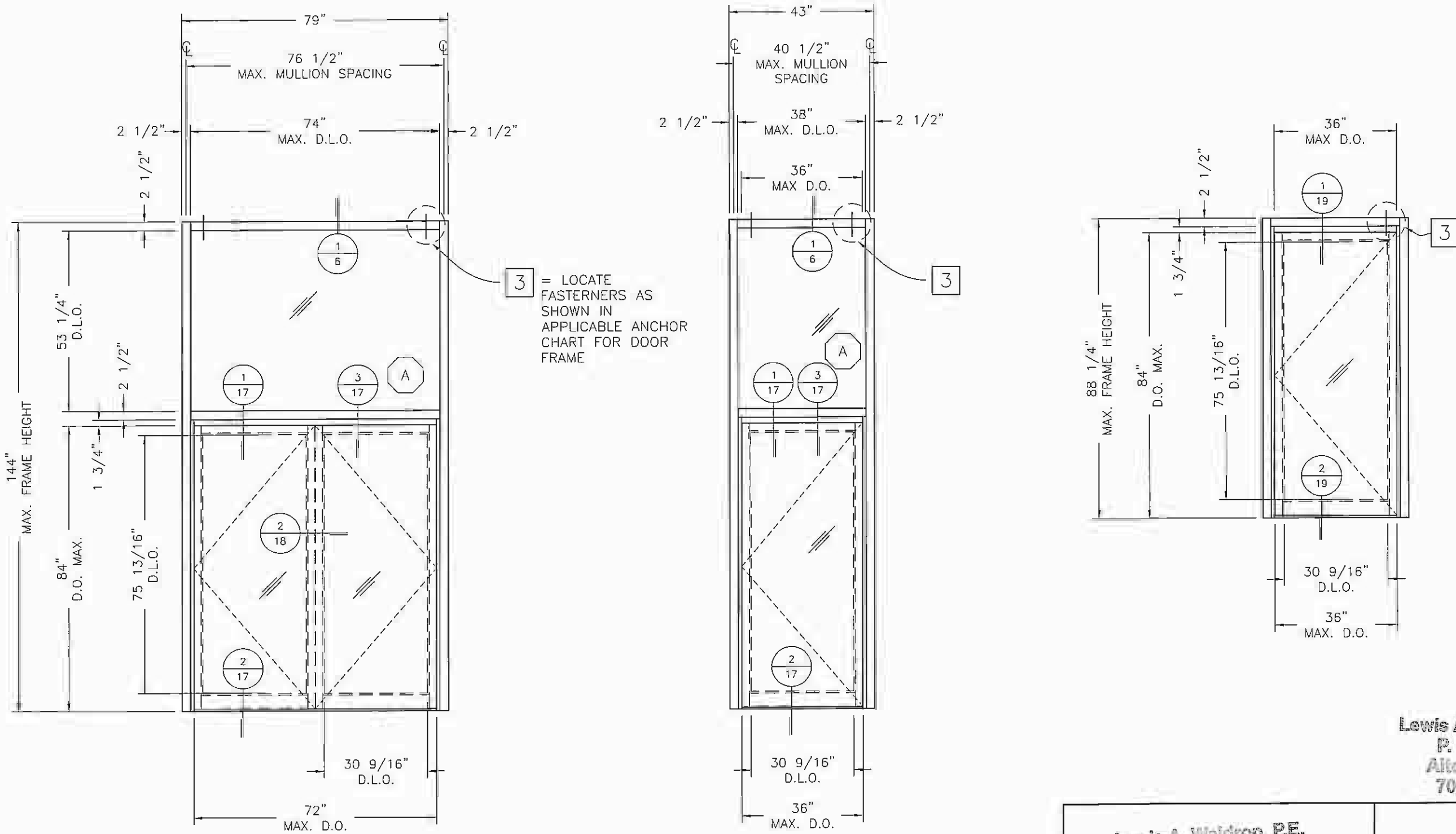
DOOR AND FRAMING ELEVATIONS
- CAPTURED

DATE	2/7/2007	
DRAWN	CHECKED	APPROVED
PCH	JDW	JDW
PROJECT NO.	FLORIDA APPROVAL	
DRAWING NO.	PW251-B	
SHEET	14 OF 35	

Coral
Architectural Products
3010 RICE WINE ROAD, TUSCALOOSA, AL 35406
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REV	BY	DATE	DESCRIPTION

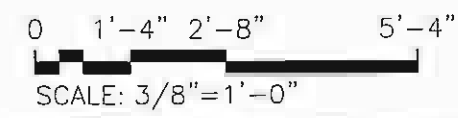
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3 = LOCATE FASTENERS AS SHOWN IN APPLICABLE ANCHOR CHART FOR DOOR FRAME

TYPICAL PW251 DOOR FRAME ELEVATIONS WITH SERIES 213 DOORS

SERIES 213 NARROW STILE DOORS SHOWN. 380 MEDIUM AND 500 WIDE STILE DOORS MAY BE SUBSTITUTED IN ANY FRAME OPENING.



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2-12-07

DRAWINGS FOR FLORIDA PRODUCT APPROVAL

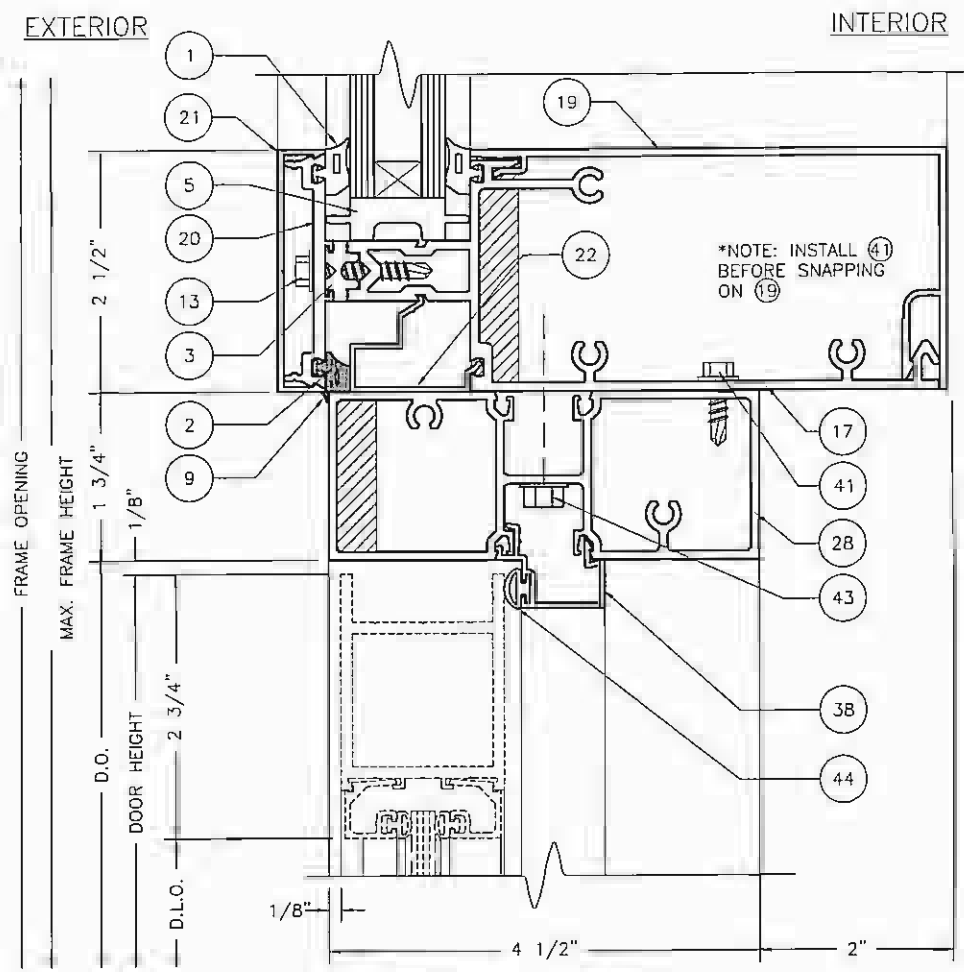
FLORIDA PRODUCT APPROVAL FOR PW251 CURTAIN WALL - B.G. AND CAPTURED DOOR FRAME ELEVATIONS		DATE	2/7/2007
DRAWN	CHECKED	APPROVED	
PCH	JDW	JDW	
PROJECT NO. FLORIDA APPROVAL			
DRAWING NO. PW251-B			
SHEET 16 OF 35			

Coral
Architectural Products
3010 RICE MINE ROAD, TUSCALOOSA, AL 35406
PHONE: 800-772-7737 FAX: 800-256-7320

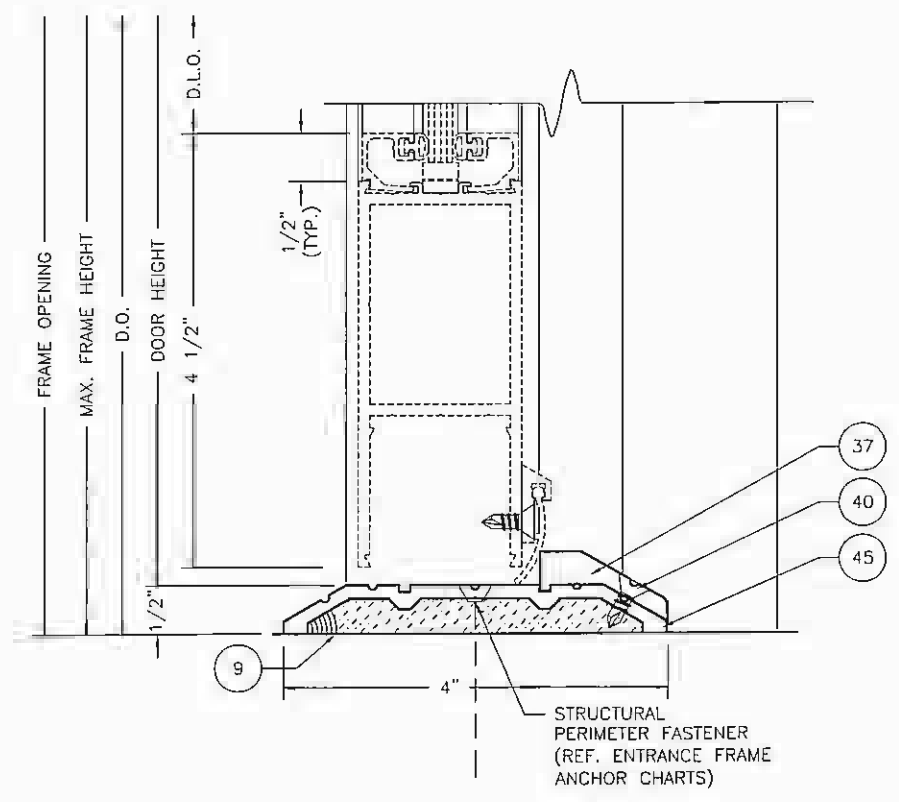
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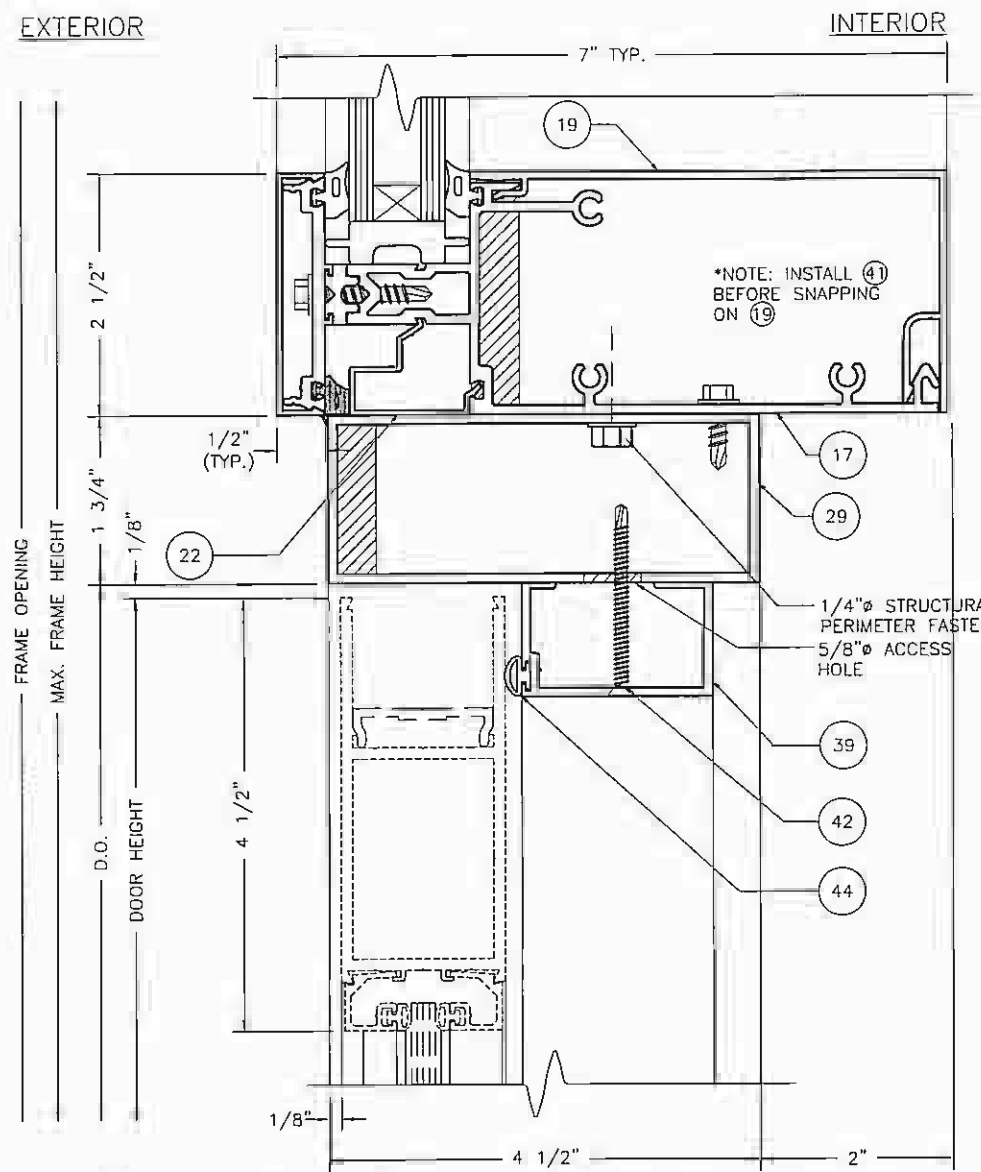
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1 - DOOR FRAME HEADER FOR OFFSET HUNG DOOR FOR SURFACE CLOSER
1:2



2 - THRESHOLD
1:2



3 - DOOR FRAME HEADER FOR OFFSET ARM WITH C.O.C.
1:2

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2-12-07

DRAWINGS FOR
FLORIDA
PRODUCT APPROVAL

FLORIDA PRODUCT APPROVAL
FOR PW251 CURTAIN WALL -
B.G. AND CAPTURED

DOOR AND FRAMING DETAILS

DATE	2/7/2007	
DRAWN	CHECKED	APPROVED
PCH	JDW	JDW
PROJECT NO.	FLORIDA APPROVAL	
DRAWING NO.	PW251-B	
SHEET	17 OF 35	

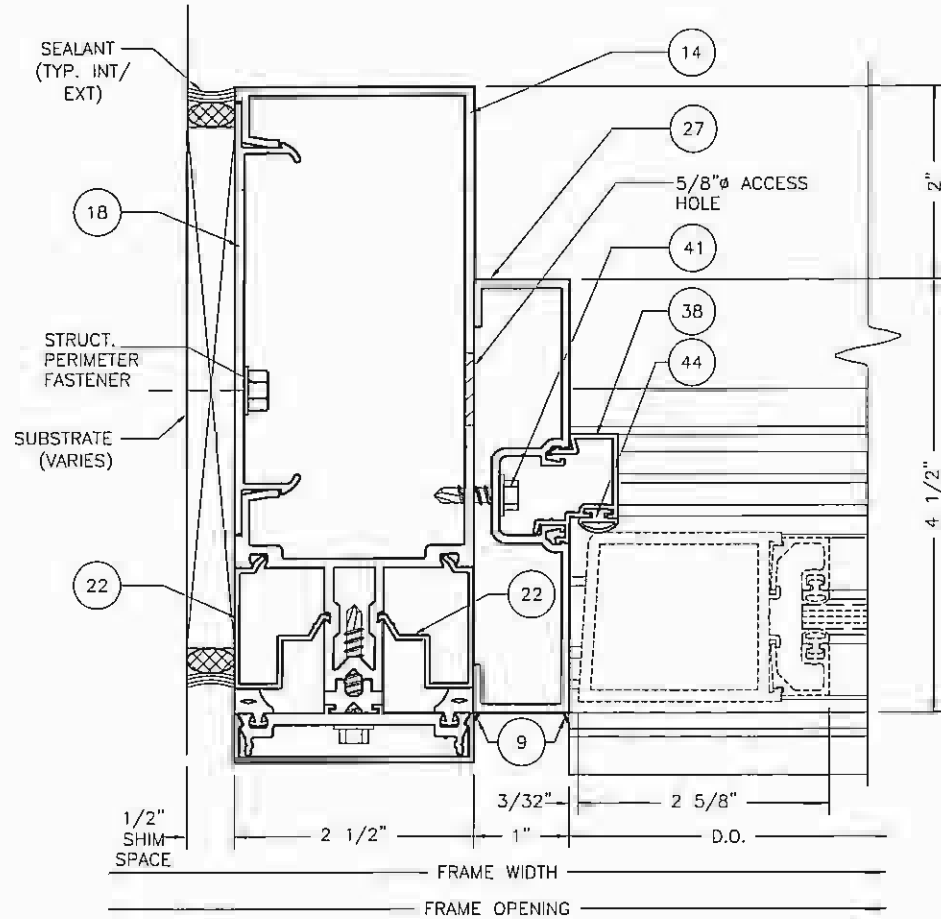
Coral

Architectural Products

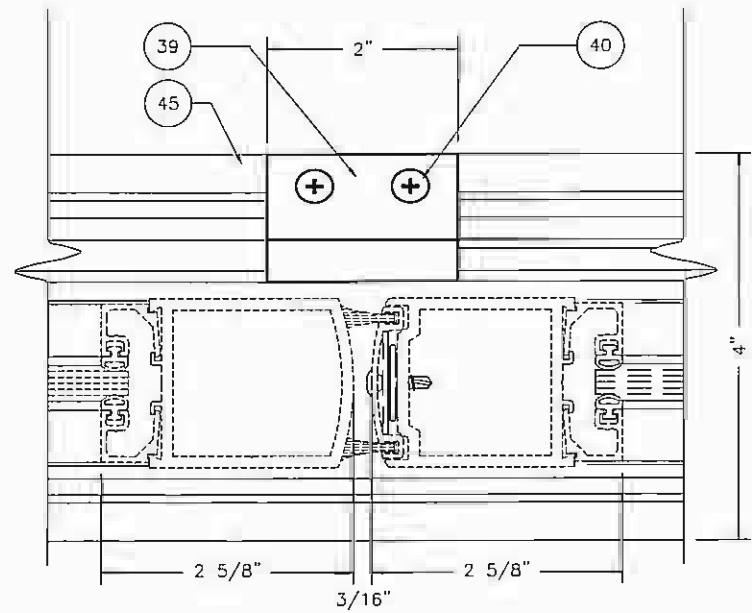
3010 RICE MINE ROAD, TUSCALOOSA, AL 35408
PHONE: 800-772-7737 FAX: 800-255-7320

REV	BY	DATE	DESCRIPTION

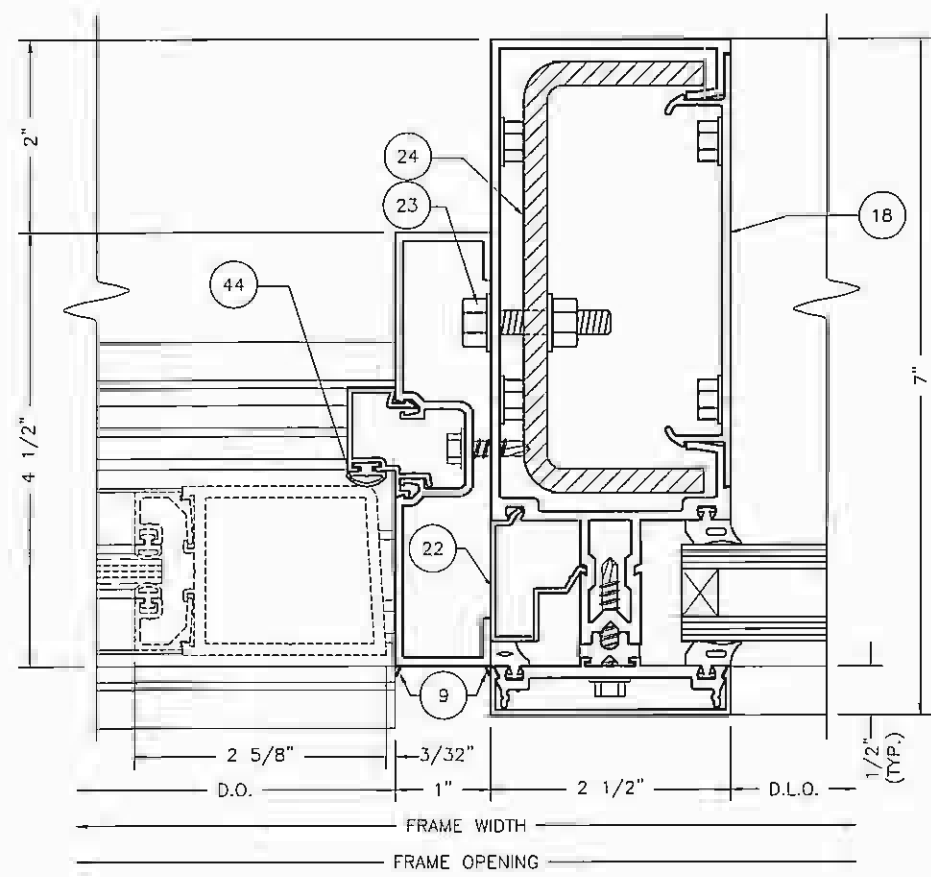
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1 - DOOR JAMB
1:2



2 - MEETING STILES
1:2



3 - INTERM. DOOR JAMB
1:2

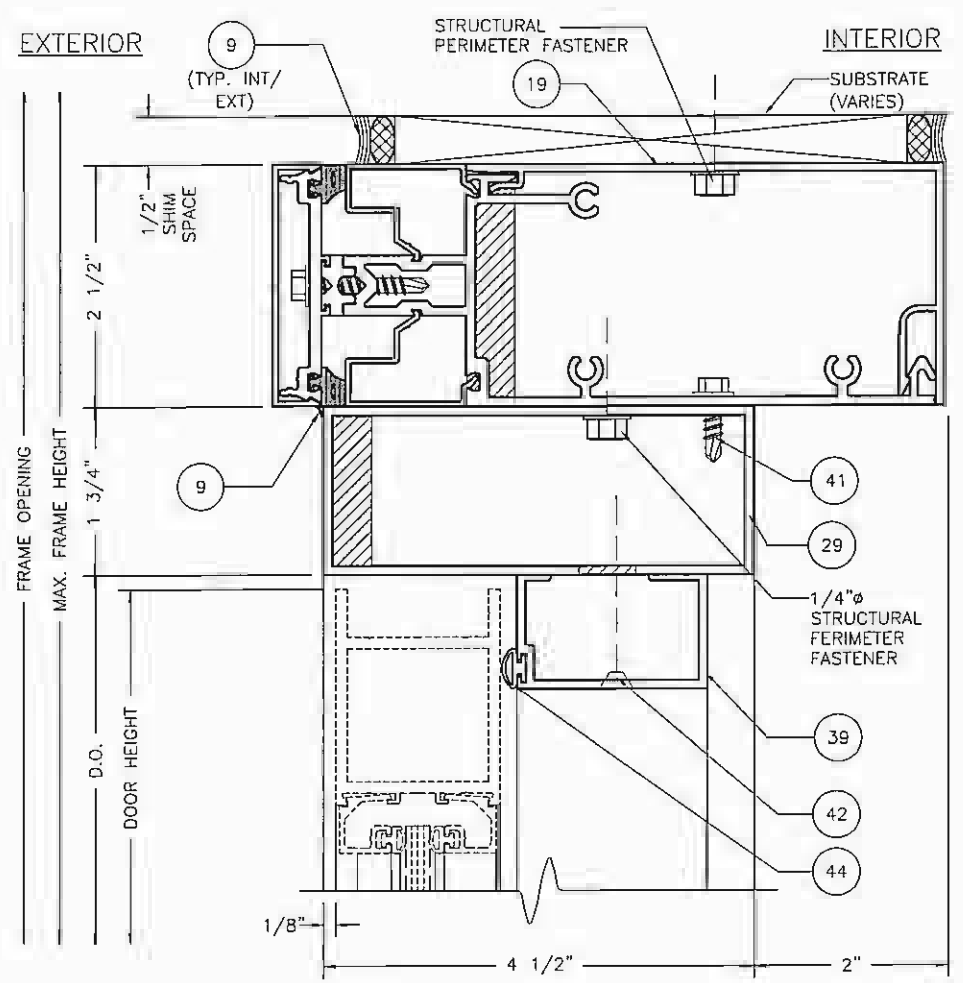
<p>Lewis A. Waldrop, P.E. FLA. P.E. #21959</p> <p><i>Lewis A. Waldrop</i></p> <p style="font-size: 24pt; font-weight: bold;">2-12-07</p>	<p>Lewis A. Waldrop, P.E. P.O. Box 620 Aalto, GA 30510 706-778-3764</p>	<p>FLORIDA PRODUCT APPROVAL FOR PW251 CURTAIN WALL - B.G. AND CAPTURED</p> <p>DOOR AND FRAMING DETAILS</p>			
<p>DRAWINGS FOR FLORIDA PRODUCT APPROVAL</p>		<p>DATE 2/7/2007</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="font-size: 8pt;">DRAWN PCH</td> <td style="font-size: 8pt;">CHECKED JDW</td> <td style="font-size: 8pt;">APPROVED JDW</td> </tr> </table> <p>PROJECT NO. FLORIDA APPROVAL</p> <p>DRAWING NO. PW251-B</p> <p>SHEET 18 OF 35</p>	DRAWN PCH	CHECKED JDW	APPROVED JDW
DRAWN PCH	CHECKED JDW	APPROVED JDW			

Coral

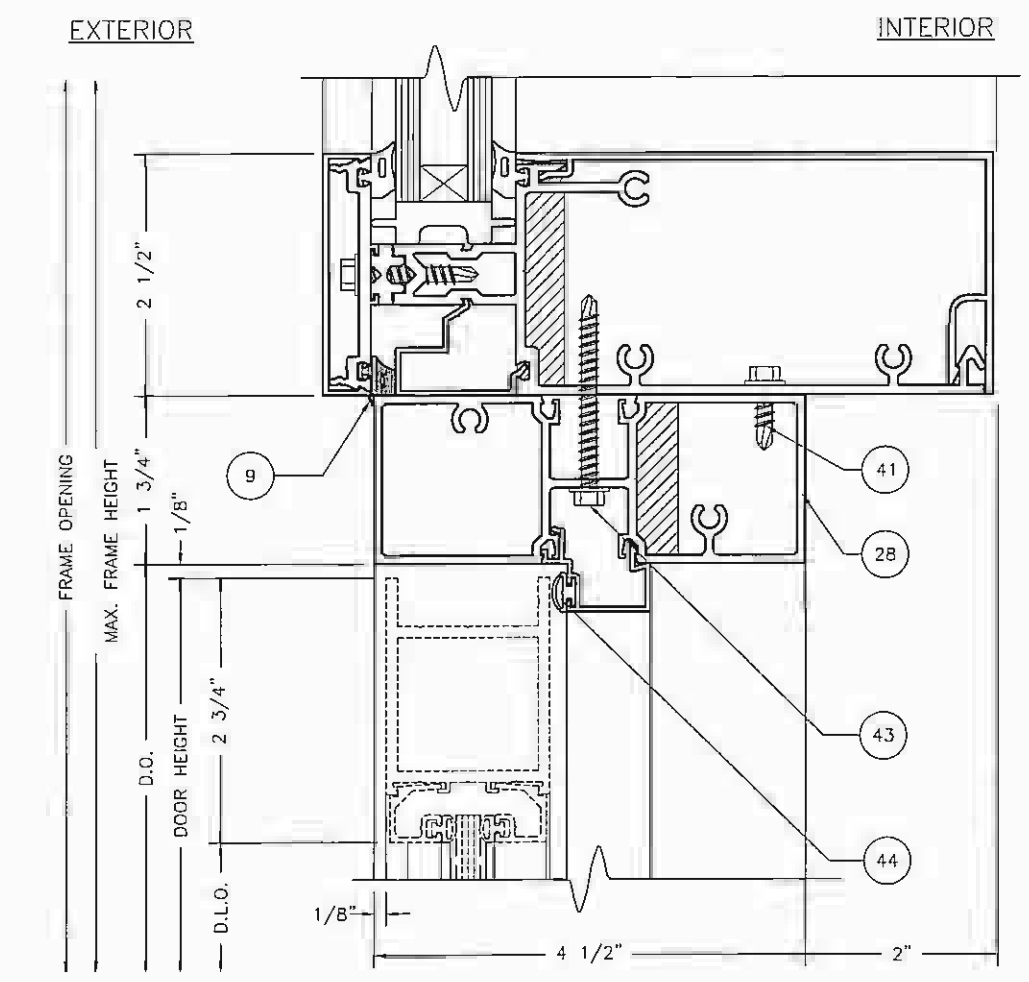
Architectural Products
3010 RICE MINE ROAD, TUSCALOOSA, AL 35408
PHONE: 800-772-7737 FAX: 800-255-7320

REV	BY	DATE	DESCRIPTION

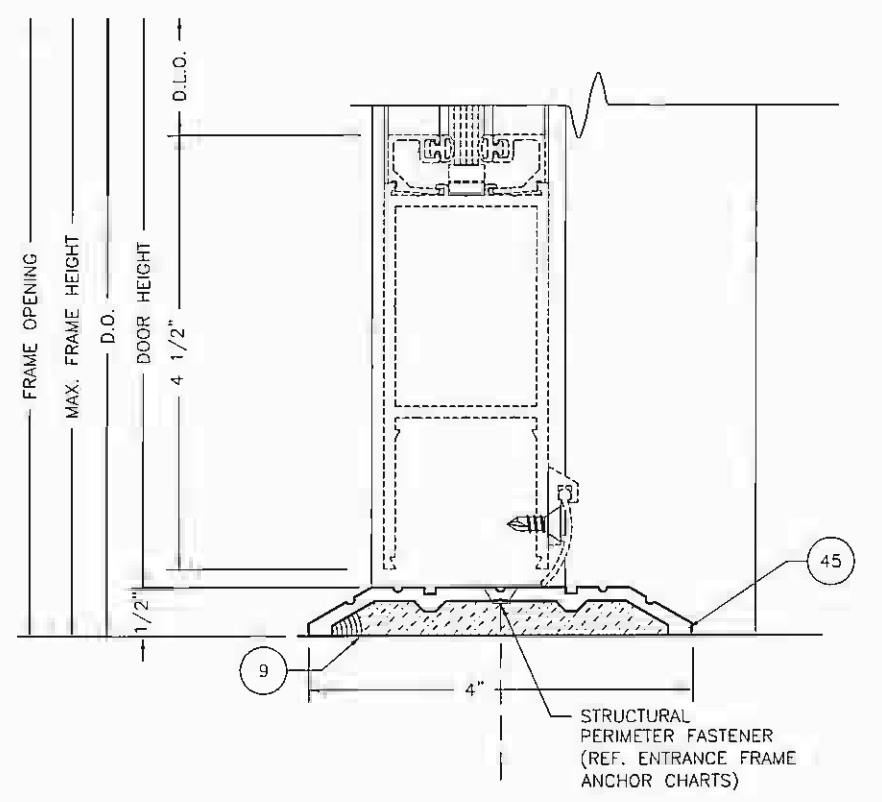
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1 - HEADER WITH OFFSET ARM WITH C.O.C.
1:2



3 - DOOR FRAME HEADER FOR OFFSET HUNG DOOR WITH SURFACE CLOSER
1:2



2 - THRESHOLD
1:2

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2-12-07

DRAWINGS FOR
FLORIDA
PRODUCT APPROVAL

FLORIDA PRODUCT APPROVAL
FOR PW251 CURTAIN WALL -
B.G. AND CAPTURED
DOOR AND FRAMING DETAILS

DATE			2/7/2007		
DRAWN	CHECKED	APPROVED	PROJECT NO.		
PCH	JDW	JDW	FLORIDA APPROVAL		
DRAWING NO.			DRAWING NO.		
PW251-B			PW251-B		
SHEET			SHEET		
19 OF 35			19 OF 35		

Coral
Architectural Products
3010 RICE MINE ROAD, TUSCALOOSA, AL 35403
PHONE: 800-772-7737 FAX: 800-255-7320

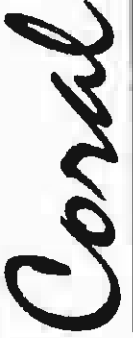
REV	BY	DATE	DESCRIPTION

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BILL OF MATERIALS

ITEM	P/N	DESCRIPTION	DIMENSIONS	MATERIAL	MANUFACTURER	NOTES
1	NG10	GLAZING GASKET	.250 SPACE	EPDM	VARIES	USED ON EXTERIOR AND INTERIOR (GLASS TO GLASS)
2	NG11	EXTERIOR PERIMETER GASKET	.30 SPACE	EPDM	VARIES	USE AT PERIMETER (METAL TO METAL)
3	NG12	PRESSURE BAR GASKET (ISOLATOR)	.140 SPACE	EPDM	VARIES	USED ON PRESSURE BAR
4	NG14	SPACER GASKET (B.G. MULLION)	.194 X .250	EPDM	VARIES	USED FOR STRUCTURAL GLAZING
5	SB251	SETTING BLOCK	1.498 X 4.00 X .437	EPDM	VARIES	4" LONG (2 PER LITE OF GLASS)
6	SP203	HORIZONTAL END DAM @CAPTURED MULL.	1.287 X 1.500 X .745	PLASTIC	CORAL	LOCATE ONE AT EACH END OF INTERM. HORIZONTAL
7	SP207	BRIDGE DAM @B.G. MULLION	1.281 X 3.123 X .745	PLASTIC	CORAL	LOCATED AT BUTT GLAZE MULLION &
8	SP209	VERTICAL MULLION CLOSURE CAP	3 X 2.352 X .550	INJECTION MOLDED PLASTIC	CORAL	LOCATE AT TOP AND BOTTOM OF VERTICAL
9	795	PERIMETER SEALANT	VARIABLE SPACE	SILICONE	DOW	
10	995	INTERNAL SEALANT	VARIABLE SPACE	SILICONE	DOW	
11	SM5601	JOINT SEALANT TAPE	.125 X .50 X VARIES	BUTYL	SCHNEE-MOREHEAD	AT INTERSECTION OF ALL HORIZ. TO VERT. JOINTS
12	AS16	TYPICAL SPLINE SCREW	#14 X 1" HHSTS	STEEL	VARIES	TYPICAL SPLINE SCREW
13	AS32	PRESSURE BAR SCREW	#12-14 X 1-1/4" X HWH #3	STEEL	VARIES	PRESSURE BAR SCREWS (LOCATE 9" O.C.)
14	PW150	CAPTURED MULLION	2.500 X 6.281 X .094	6063-T6 ALUMINUM	CORAL	
15	PW151	BUTT GLAZED MULLION	2.500 X 5.000 X .094	6063-T6 ALUMINUM	CORAL	
16	PW152	HEAD/SILL	2.390 X 6.075 X .094	6063-T6 ALUMINUM	CORAL	
17	PW155	INTERMEDIATE HORIZONTAL	2.390 X 6.168 X .094	6063-T6 ALUMINUM	CORAL	
18	PW202	MULLION FILLER	.681 X 4.484 X .094	6063-T6 ALUMINUM	CORAL	
19	PW203	HEAD/SILL/HORIZONTAL TRIM	2.500 X 4.980 X .078	6063-T6 ALUMINUM	CORAL	
20	PW204	PRESSURE BAR	2.443 X .433 X .125	6063-T6 ALUMINUM	CORAL	
21	PW205	VERTICAL/HORIZONTAL FACE COVER	.500 X 2.500 X .062	6063-T6 ALUMINUM	CORAL	
22	PW213	JAMB POCKET FILLER	.999 X 1.375 X .050	6063-T6 ALUMINUM	CORAL	
23	FASTENER	STL. REINFORCEMENT ATTACHMENT BOLT	1/4" -20 X 1-1/4" BOLT W/ WASHER & NUT	STEEL	VARIES	LOCATE @HEAD, SILL, AND INTERMEDIATE HORIZONTAL
24	SR150	REINFORCEMENT STEEL	4-1/2" X 1-7/8" X 1/4" CHANNEL	AS36	VARIES	USED @ INTERMEDIATE VERTICAL MULLION
25	SR151	REINFORCEMENT STEEL	4-1/2" X 1-7/8" X 10 GA.	AS36	VARIES	USED @ INTERMEDIATE VERTICAL MULLION
26	PW207	SPLICE SLEEVE	4.470 X 2.196 X .125	6063-T6 ALUMINUM	CORAL	USED @ INTERMEDIATE VERTICAL MULLION
27	PW214	DOOR SUBFRAME	1.000 X 4.500 X .080	6063-T6 ALUMINUM	CORAL	
28	FL207	DOOR HEADER/TRANSOM BAR	1.750 X 4.500 X .085	6063-T6 ALUMINUM	CORAL	DOOR JAMB AT WALL
29	FL212	TUBULAR HEADER	1.750 X 4.500 X .094	6063-T6 ALUMINUM	CORAL	
30	PW156	1" GLAZING TEE 90 O.S. CORNER	3.022 X 3.022 X .094	6063-T6 ALUMINUM	CORAL	
31	PW157	1" GLZ. PRESSURE BAR 90 O.S. CORNER	3.329 X 3.329 X .125	6063-T6 ALUMINUM	CORAL	
32	PW158	1" GLZ. FACE COVER 90 O.S. CORNER	0.500 X 3.752 X .062	6063-T6 ALUMINUM	CORAL	
33	PW208	FEMALE HALF 90 O.S. CORNER	1.625 X 6.110 X .094	6063-T6 ALUMINUM	CORAL	
34	PW209	MALE HALF 90 O.S. CORNER	1.875 X 6.110 X .094	6063-T6 ALUMINUM	CORAL	
35	PW210	CORNER MULLION FILLER	1.288 X 2.500 X .078	6063-T6 ALUMINUM	CORAL	
36	PAD	NYLATRON PAD	4" X 4" X .062"	NYLATRON	VARIES	SLIP PAD @ WINDLOAD ANCHOR
37	DP200-1	PANIC STOP	1.323 X .402 X .188	6063-T6 ALUMINUM	CORAL	FABRICATED LENGTH = 2.00"
38	DS200-1	DOOR STOP	.500 X 1.019 X .050	6063-T6 ALUMINUM	CORAL	
39	DS202-1	DOOR STOP - OFFSET ARM COVER	1.188 X 2.00 X .090	6063-T6 ALUMINUM	CORAL	
40	AS20	FASTENER	#10 - 16 X 1/2" FHP SELF DRILL	ZINC PLATED STL.	VARIES	
41	AS25	FASTENER	#12 X 3/4" #3 FHP SELF DRILL	STEEL	VARIES	ATTACH PW214 SUBFRAME TO MULLION
42	AS29	FASTENER	#8 x 2" FHPUC (UNDERCUT) SELF DRILL	STEEL	VARIES	FOR ATTACHING DS202
43	AS37	FASTENER	#12 X 2" HWH #3 SELF DRILLING	STEEL	VARIES	
44	NG5	DOOR STOP WEATHERING	.125 SPACE	EPDM	VARIES	
45	TH4	THRESHOLD	.50 X 4.00 X .125	6063-T6 ALUMINUM	CORAL	
46	TH400	THRESHOLD CLIP	1.50 X 1.125 X .119	STEEL	CORAL INDUSTRIES, INC.	
47	AS27	FASTENER	#12 X 1 1/2" FHP #3 SELF DRILLING	STEEL	VARIES	
48	AS13	SQUARE NUT	1.475 X 1.475 X .180 Z PLT. STEEL SQUARE	STEEL	CORAL INDUSTRIES, INC.	
49	BOLT	FASTENER	1/4"-20 X 3" BOLT W/ WASHER NUT	STEEL	VARIES	THROUGH BOLT @ HORIZONTALS
50	SR150-1	STEEL CHANNEL TAP PLATE	4 1/2" X 1 7/8" X 1/4" X 8" LONG	AS36	VARIES	STEEL TAP PLATE @ WALL JAMB-8" LONG

REV	BY	DATE	DESCRIPTION



Architectural Products
 3010 RICE WINE ROAD, TUSCALOOSA, AL 35408
 PHONE: 800-772-7737 FAX: 800-255-7320

FLORIDA PRODUCT APPROVAL
 FOR PW251 CURTAIN WALL -
 B.G. AND CAPTURED

BILL OF MATERIALS

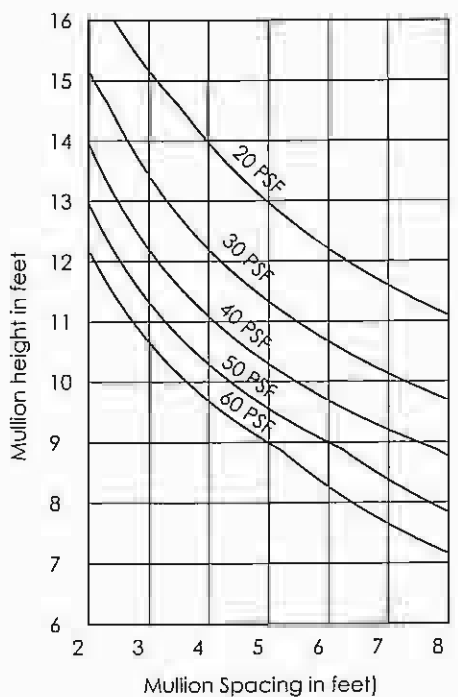
DATE	2/7/2007	
DRAWN	CHECKED	APPROVED
PCH	JDW	JDW
PROJECT NO.	FLORIDA APPROVAL	
DRAWING NO.	PW251-B	
SHEET	20 OF 35	

S:\ASSEMBLIES & FABRICATION\C.A.P\MOCK-UPS\FPA\PW251\B.G. MULLION\21 SINGLE SPAN WIND LOAD CHARTS-CAPTURED MULLION.dwg, 2/7/2007 11:27:45 AM, pho

WIND LOAD CHARTS

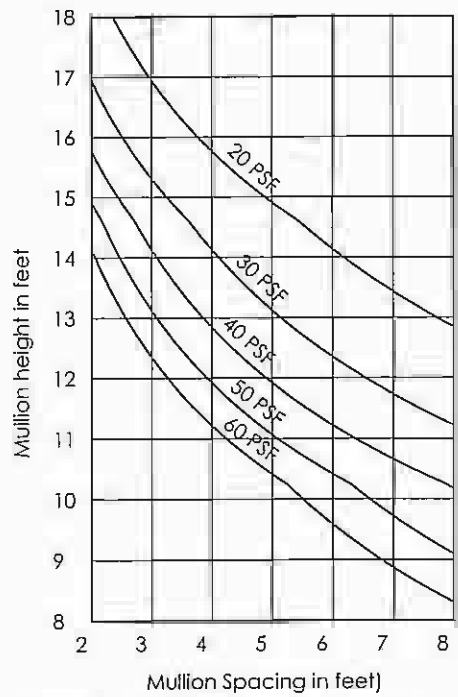
(A 4/3 increase in allowable stress is not reflected in these curves) Curves are based on deflection limitations of L/175 and reflect the limiting value for mullions with horizontals. Allowable wind load stresses for aluminum alloy 6063-T6 (25ksi/1.65=15.15ksi) and A36 (36ksi x 0.67=24ksi) were used.

Captured Mullion



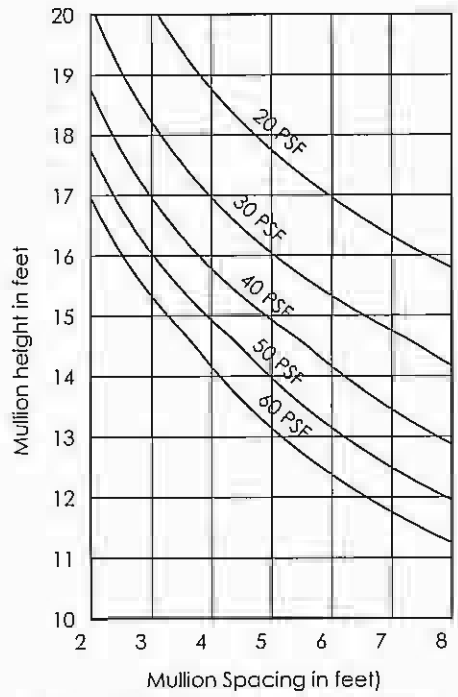
PW150 /202
I = 8.035 in⁴
S = 2.846 in³

PW150



PW150 /202/207
I = 12.004 in⁴
S = 4.528 in³

PW150/202 & PW207 (Alum. Reinforcing)

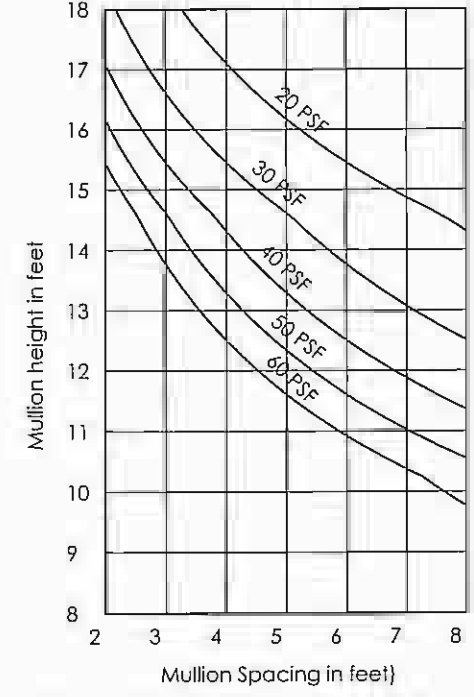


PW150 /202
I = 8.035 in⁴
S = 2.846 in³

SR150 Steel
I = 5.288 in⁴
S = 2.350 in³

IAL + Steel
23.370 in⁴

PW150/202 & SR150 (Stl. Reinforcing)



PW150 /202
I = 8.035 in⁴
S = 2.846 in³

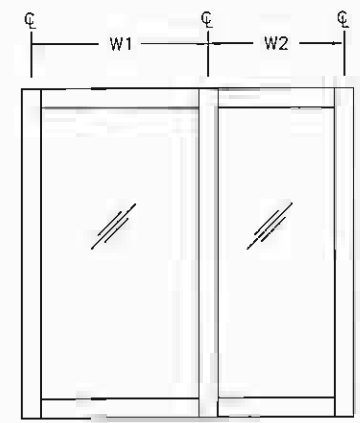
SR151 Steel
I = 3.049 in⁴
S = 1.355 in³

IAL + Steel
16.877 in⁴

PW150/202 & SR151 (Stl. Reinforcing)

Lewis A. Waldrop, P.E.
P. O. Box 820
Alto, GA 30510
706-778-3704

FOR UNEQUAL MULLION SPACING
CALCULATE TRIBUTARY WIDTH



TRIBUTARY WIDTH = $\frac{W1 + W2}{2}$

FOR EXAMPLE:

W1 = 4'-0"
W2 = 5'-0"

TRIBUTARY WIDTH = $\frac{4' + 5'}{2}$

TRIBUTARY WIDTH = 4'-6"

Lewis A. Waldrop, P.E.
FLA. P.E. #21959

2-12-07

DRAWINGS FOR
FLORIDA
PRODUCT APPROVAL

REV	BY	DATE	DESCRIPTION

Coral
Architectural Products
3010 RICE MINE ROAD, TUSCALOOSA, AL 35408
PHONE: 800-772-7137 FAX: 800-255-7320

FLORIDA PRODUCT APPROVAL FOR PW251
CURTAIN WALL -
B.G. AND CAPTURED
SINGLE SPAN WIND LOAD
CHARTS-CAPTURED MULLION

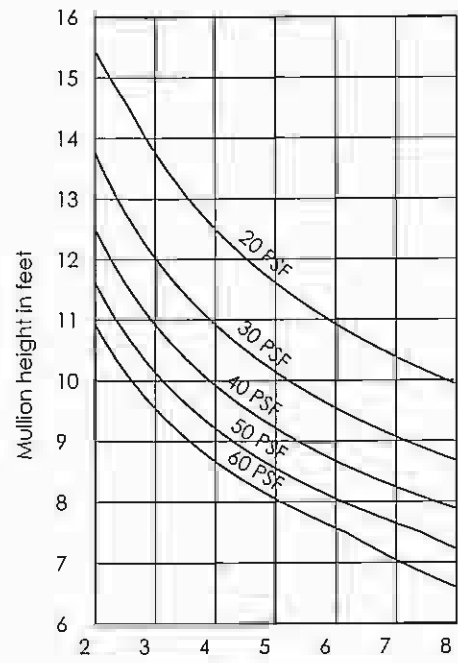
DATE	2/7/2007	
DRAWN	CHECKED	APPROVED
PCH	JDW	JDW
PROJECT NO.	FLORIDA APPROVAL	
DRAWING NO.	PW251-B	
SHEET	21 OF 35	

S:\ASSEMBLIES & FABRICATION\C.A.PIMOCK-UPS\FPAIPW251\B.G. MULLION\22 SINGLE SPAN WIND LOAD CHARTS-B.G. MULLION.dwg, 2/7/2007 11:27:50 AM, phowel, \lip

WIND LOAD CHARTS

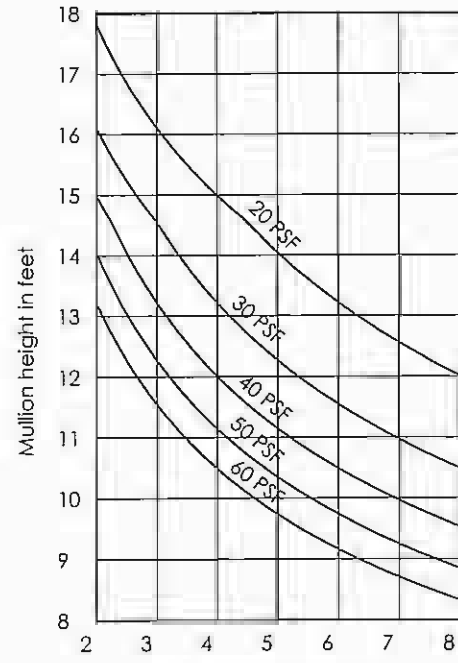
(A 4/3 increase in allowable stress is not reflected in these curves) Curves are based on deflection limitations of L/175 and reflect the limiting value for mullions with horizontals. Allowable wind load stresses for aluminum alloy 6063-T6 (25ksi/1.65=15.15ksi) and A36 (36ksi x 0.67=24ksi) were used.

B.G. Mullion



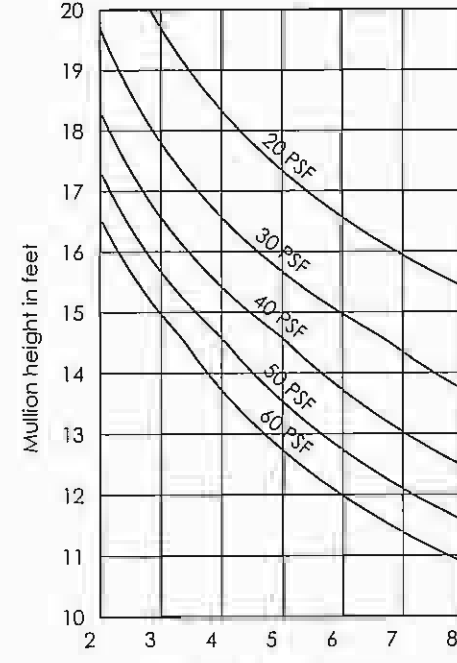
PW151

PW150 /202
I = 6.009 in⁴
S = 2.472 in³



PW151 & PW207 (Alum. Reinforcing)

PW150 /202/207
I = 9.978 in⁴
S = 4.154 in³

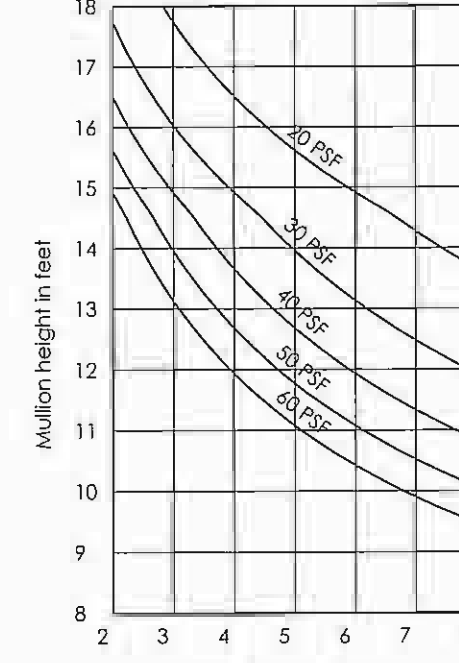


PW151/202 & SR150 (Stl. Reinforcing)

PW150 /202
I = 6.009 in⁴
S = 2.472 in³

SR150 Steel
I = 5.288 in⁴
S = 2.350 in³

IAL + Steel
21.344 in⁴



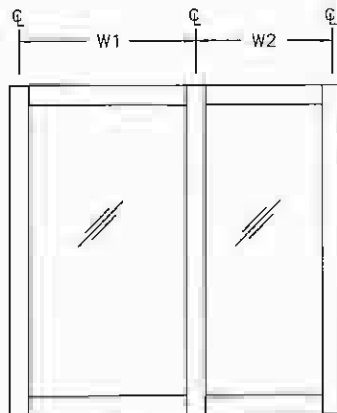
PW151/202 & SR151 (Stl. Reinforcing)

PW150 /202
I = 6.009 in⁴
S = 2.472 in³

SR151 Steel
I = 3.049 in⁴
S = 1.355 in³

IAL + Steel
14.810 in⁴

FOR UNEQUAL MULLION SPACING
CALCULATE TRIBUTARY WIDTH



TRIBUTARY WIDTH = $\frac{W1 + W2}{2}$

FOR EXAMPLE:

W1 = 4'-0"

W2 = 5'-0"

TRIBUTARY WIDTH = $\frac{4' + 5'}{2}$

TRIBUTARY WIDTH = 4'-6"

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FLA. P.E. #21969

2-12-07

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706.778.5715

DRAWINGS FOR
FLORIDA
PRODUCT APPROVAL

FLORIDA PRODUCT APPROVAL FOR PW251
CURTAIN WALL -
B.G. AND CAPTURED
SINGLE SPAN WIND LOAD CHARTS-B.G.
MULLION

DATE	2/7/2007	
DRAWN	CHECKED	APPROVED
MLL	JDW	JDW
PROJECT NO.	FLORIDA APPROVAL	
DRAWING NO.	PW251-B	
SHEET	22 OF 35	

Coral
Architectural Products
3010 RICE WINE ROAD, TUSCALOOSA, AL 35408
PHONE: 800-772-7737 FAX: 800-255-7320

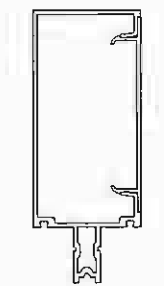
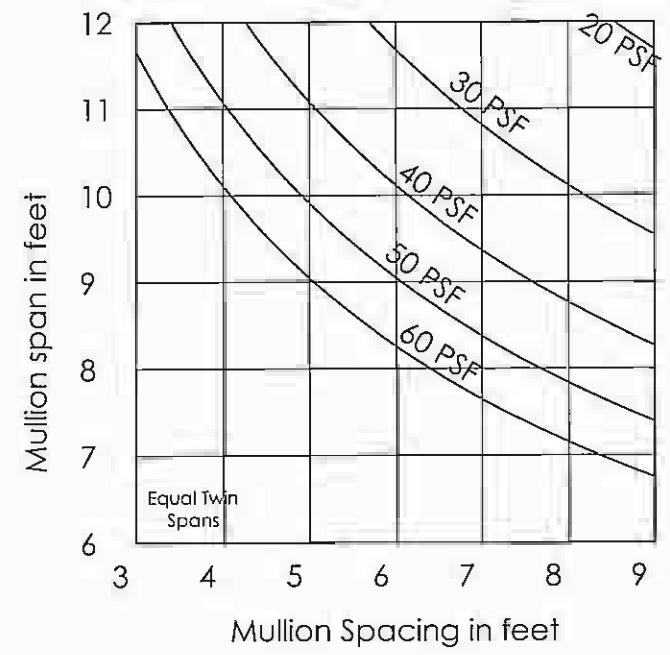
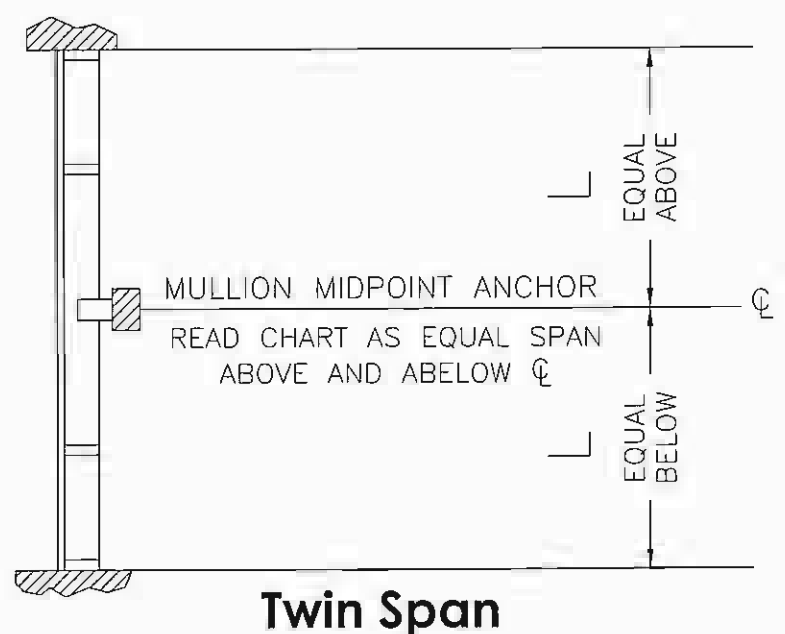
REV	BY	DATE	DESCRIPTION

S:\ASSEMBLIES & FABRICATION\A.PIMOCK-UPS\FPA\PW251\B.G. MULLION\23 TWIN SPAN WIND LOAD CHARTS-CAPTURED MULLION.dwg, 2/7/2007 11:27:54 AM, phow

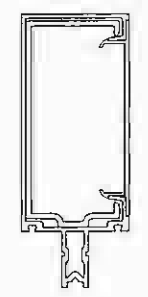
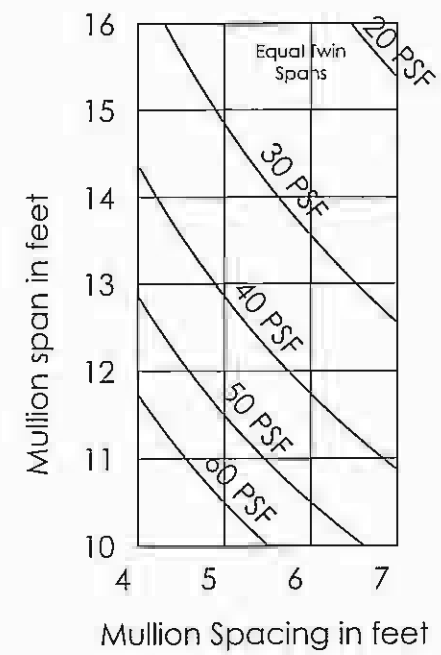
WIND LOAD CHARTS

(A 4/3 increase in allowable stress is not reflected in these curves) Curves are based on deflection limitations of L/175 and reflect the limiting value for mullions with horizontals. Allowable wind load stresses for aluminum alloy 6063-T6 (25ksi/1.65=15.15ksi) and A36 (36ksi x 0.67=24ksi) were used.

Captured Mullion

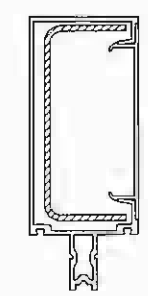
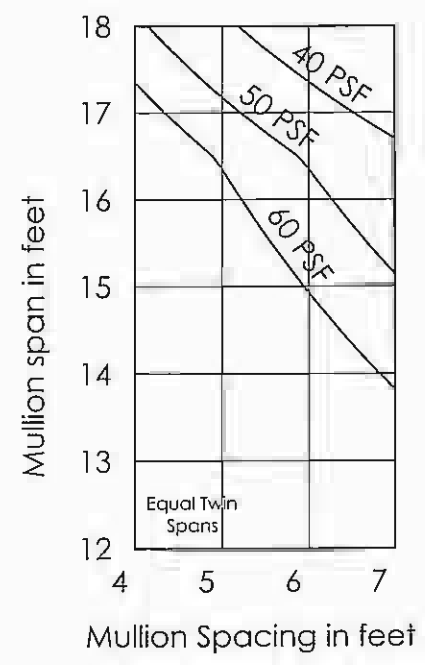


PW150 /202
 $I = 8.035 \text{ in}^4$
 $S = 2.846 \text{ in}^3$



PW150 /202/207
 $I = 12.004 \text{ in}^4$
 $S = 4.528 \text{ in}^3$

PW150/202 & PW207(Alum. Reinforcing)



PW150 /202
 $I = 8.035 \text{ in}^4$
 $S = 2.846 \text{ in}^3$

SR151 Steel
 $I = 3.049 \text{ in}^4$
 $S = 1.355 \text{ in}^3$

1A1 + Steel
 16.877 in^4

PW150/202 & SR151(Stl. Reinforcing)

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 706-778-3784

Lewis A. Waldrop, P.E.
 FLA. P.E. #21050

2-12-07

DRAWINGS FOR
 FLORIDA
 PRODUCT APPROVAL

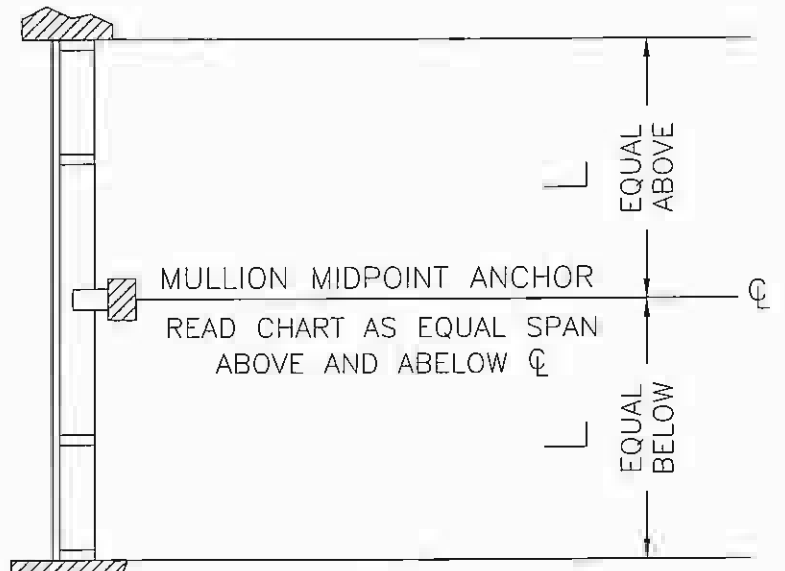
FLORIDA PRODUCT APPROVAL FOR PW251	
CURTAIN WALL -	
B.G. AND CAPTURED	
TWIN SPAN WIND LOAD	
CHARTS-CAPTURED MULLION	
DATE	2/7/2007
DRAWN	PCH
CHECKED	JDW
APPROVED	JDW
PROJECT NO.	FLORIDA APPROVAL
DRAWING NO.	PW251-B
SHEET	23 OF 35

S:\ASSEMBLIES & FABRICATION\C.A.P\MOCK-UPS\FPA\PW251\B.G. MULLION\24 TWIN SPAN WIND LOAD CHARTS-B.G. MULLION.dwg, 2/7/2007 11:27:59 AM, phowel, Wipp:/

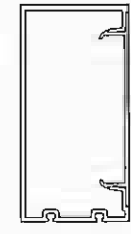
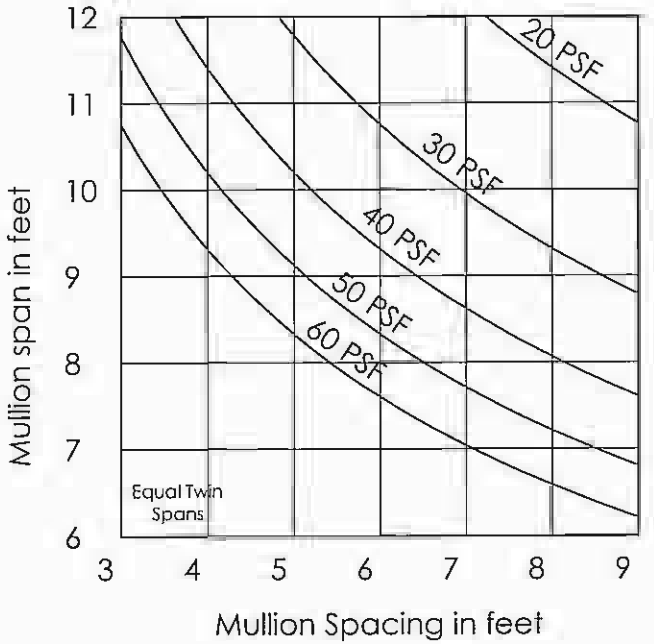
WIND LOAD CHARTS

(A 4/3 increase in allowable stress is not reflected in these curves) Curves are based on deflection limitations of L/175 and reflect the limiting value for mullions with horizontals. Allowable wind load stresses for aluminum alloy 6063-T6 (25ksi/1.65=15.15ksi) and A36 (36ksi x 0.67=24ksi) were used.

B.G. Mullion

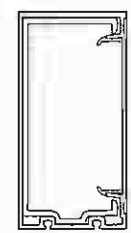
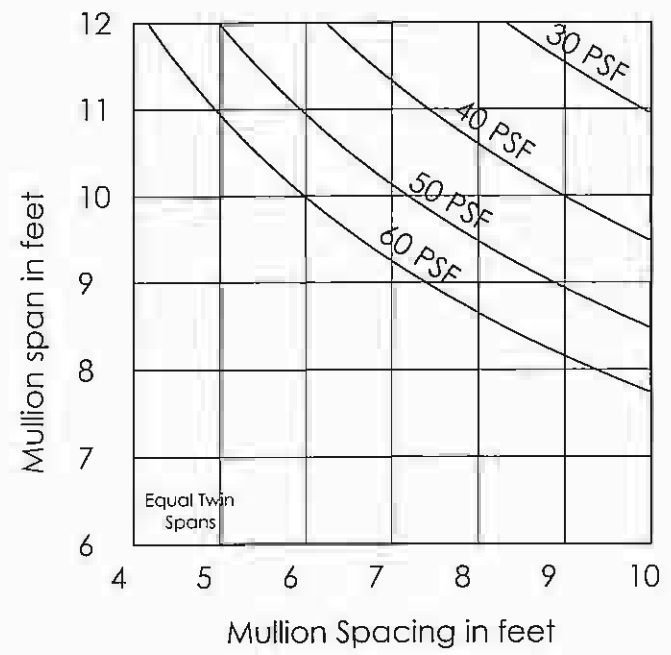


Twin Span



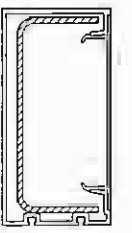
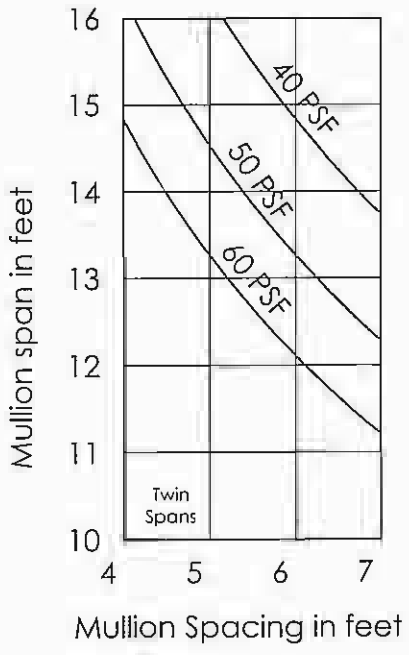
PW150 /202
 $I = 6.009 \text{ in}^4$
 $S = 2.472 \text{ in}^3$

PW151/202



PW150 /202/207
 $I = 9.978 \text{ in}^4$
 $S = 4.154 \text{ in}^3$

PW151/202 & PW207(Alum. Reinforcing)



PW150 /202
 $I = 6.009 \text{ in}^4$
 $S = 2.472 \text{ in}^3$

SR151 Steel
 $I = 3.049 \text{ in}^4$
 $S = 1.355 \text{ in}^3$

IAl + Steel
 9.058 in^4

PW151/202 & SR151(Stl. Reinforcing)

Lewis A. Waldrop, P.E.
 FLA. P.E. #21959

[Signature]

2-12-07

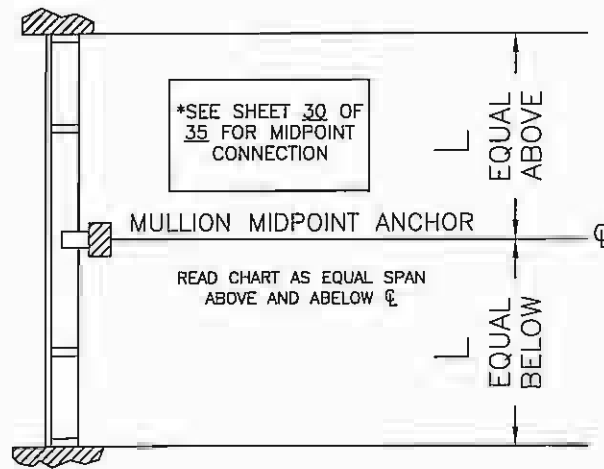
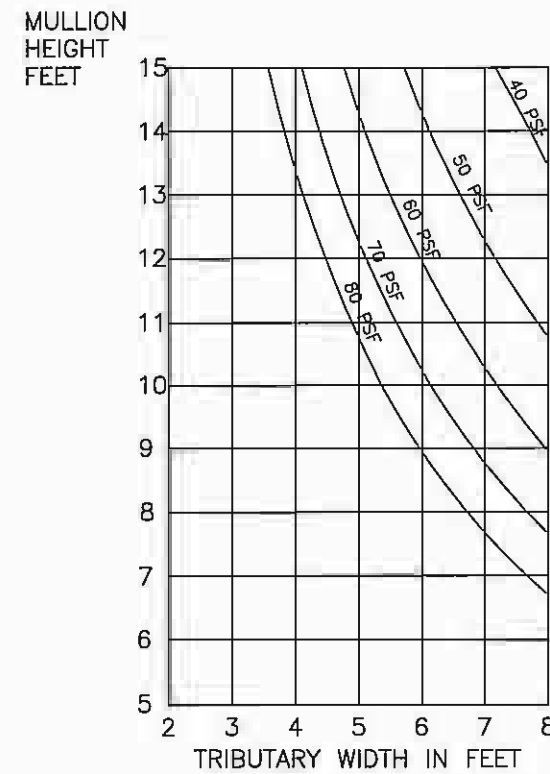
Lewis A. Waldrop, P.E.
 P. O. Box 620
 Alto, GA 30510
 706-778-3724

	DESCRIPTION DATE REV BY DATE
Coral Architectural Products 3010 RICE MINE ROAD, TUSCALOOSA, AL 35406 PHONE: 800-772-7737 FAX: 800-255-7320	
FLORIDA PRODUCT APPROVAL FOR PW251 CURTAIN WALL - B.G. AND CAPTURED TWIN SPAN WIND LOAD CHARTS-B.G. MULLION	
Lewis A. Waldrop, P.E. FLA. P.E. #21959	
<i>[Signature]</i>	
2-12-07	
DRAWINGS FOR FLORIDA PRODUCT APPROVAL	
DATE 2/7/2007 DRAWN MLL CHECKED JDW APPROVED JDW PROJECT NO. FLORIDA APPROVAL DRAWING NO. PW251-B SHEET 24 OF 35	

TWIN SPAN ANCHOR CHARTS

ATTACH TO CONCRETE AT HEAD/SILL
(3,000 PSI CONCRETE SUBSTRATE)
TRIBUTARY WIDTH IN FEET

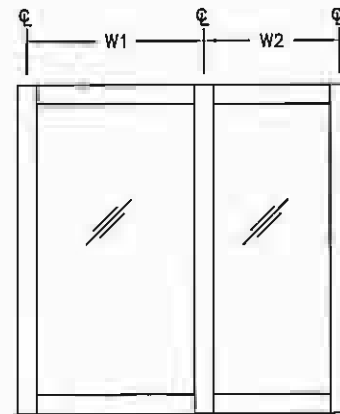
WITH ONE (1) STEEL ANCHOR ON EACH SIDE OF
MULLION AND SILL AND ONE (1) 4" X 4" X 1/4"
STEEL ANGLE AT MIDPOINT OF MULLION
REF. SHEET 30 FOR MIDPOINT CONNECTION



NOTE: SELECT APPROPRIATE MULLION FOR
JOB CONDITIONS FROM WINDLOAD CHARTS
(SHEETS 23-24). MATCH WINDLOAD
REQUIREMENTS AND MULLION SPACING TO
ANCHOR CHARTS TO DETERMINE NUMBER
OF ANCHORS REQUIRED.

*SEE SHEET 30 OF
35 FOR MIDPOINT
CONNECTION

FOR UNEQUAL MULLION SPACING
CALCULATE TRIBUTARY WIDTH



$$\text{TRIBUTARY WIDTH} = \frac{W1 + W2}{2}$$

FOR EXAMPLE:

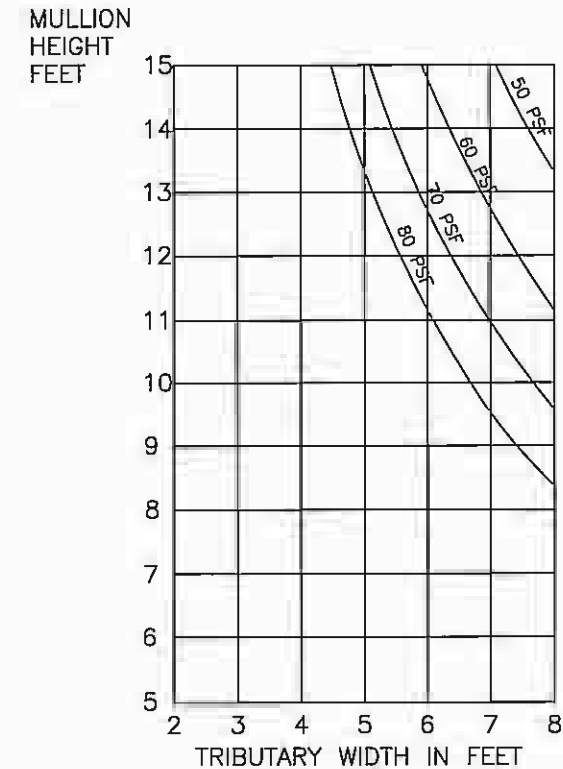
$$\begin{aligned} W1 &= 4'-0" \\ W2 &= 5'-0" \\ \text{TRIBUTARY WIDTH} &= \frac{4' + 5'}{2} \\ \text{TRIBUTARY WIDTH} &= 4'-6" \end{aligned}$$

ANCHOR TYPE AT HEAD/SILL:

ONE (1) 3/8" LDT TAPCON CONCRETE
SCREW (ITW RAMSET/RED HEAD OR EQUIV.)
WITH 2" EMBED. INTO CONCRETE, 5" MIN.
EDGE DISTANCE, 6" MIN. SPACING

NOTE: CONSULT FACTORY FOR AVAILABILTY
AND PRICING FOR ANY STOCK LENGTHS
OVER 24'-0"

WITH TWO (2) STEEL ANCHOR ON EACH SIDE OF
MULLION AND SILL AND TWO (2) 4" X 4" X 1/4"
STEEL ANGLE AT MIDPOINT OF MULLION
REF. SHEET 30 FOR MIDPOINT CONNECTION



Lewis A. Waldrop, P.E.
P. O. Box 620
Alto, GA 30510
706-778-3784

Lewis A. Waldrop
2/26/07

Lewis A. Waldrop, P.E.
P. O. Box 620
Alto, GA 30510
706-778-3784

DRAWINGS FOR
FLORIDA
PRODUCT APPROVAL

REV	BY	DATE	DESCRIPTION

Coral
Architectural Products
3010 RICE MINE ROAD, TUSCALOOSA, AL 35406
PHONE: 800-772-7737 FAX: 800-255-7320

FLORIDA PRODUCT APPROVAL FOR PW251
CURTAIN WALL -
B.G. AND CAPTURED
TWIN SPAN HEAD & SILL ANCHOR CHART -
CONCRETE

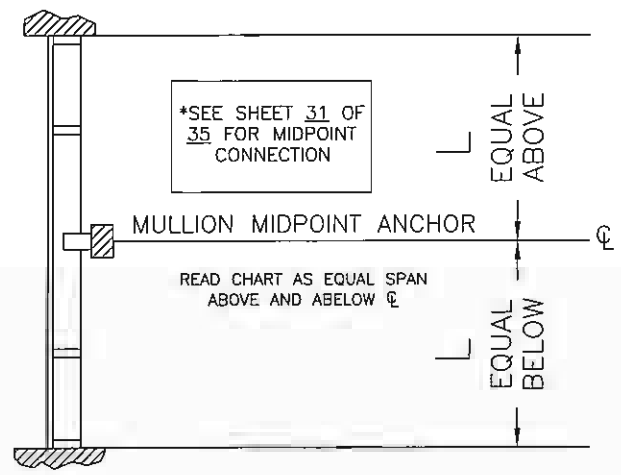
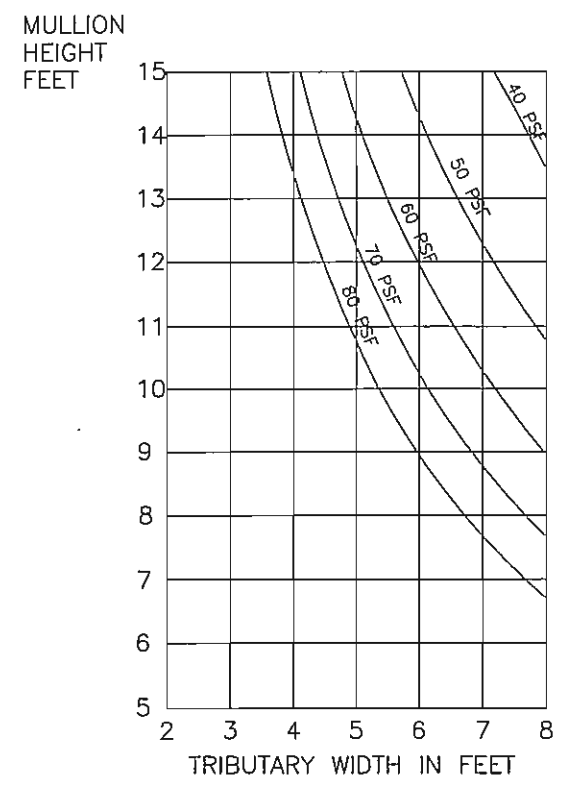
DATE	2/26/2007	
DRAWN	CHECKED	APPROVED
PCH	JDW	JDW
PROJECT NO.	HTL	
DRAWING NO.	PW251-B	
SHEET	28 OF 35	

S:\ASSEMBLIES & FABRICATION\A.PIMOCK-UPS\FPA\IPW251\B.G. MULLION\29 TWIN SPAN HEAD & SILL ANCHOR CHART - STEEL.dwg, 2/26/2007 11:52:48 AM, mlawre, 1

TWIN SPAN ANCHOR CHARTS

ATTACH TO METAL STRUCTURE
AT HEAD/SILL
(ASTM A-36 STEEL)
TRIBUTARY WIDTH IN FEET

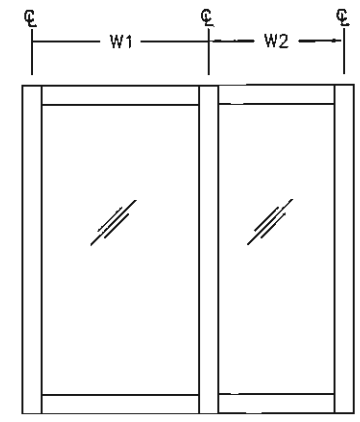
WITH ONE (1) EACH ANCHOR ON EACH SIDE OF MULLION
AT HEAD AND SILL AND ONE (1) 4" X 4" X 1/4"
STEEL ANGLE AT MIDPOINT OF MULLION
REF. SHEET 31 FOR MIDPOINT CONNECTION



NOTE: SELECT APPROPRIATE MULLION FOR JOB CONDITIONS FROM WINDLOAD CHARTS (SHEETS 23-24). MATCH WINDLOAD REQUIREMENTS AND MULLION SPACING TO ANCHOR CHARTS TO DETERMINE NUMBER OF ANCHORS REQUIRED.

*SEE SHEET 31 OF 35 FOR MIDPOINT CONNECTION

FOR UNEQUAL MULLION SPACING
CALCULATE TRIBUTARY WIDTH



$$\text{TRIBUTARY WIDTH} = \frac{W1 + W2}{2}$$

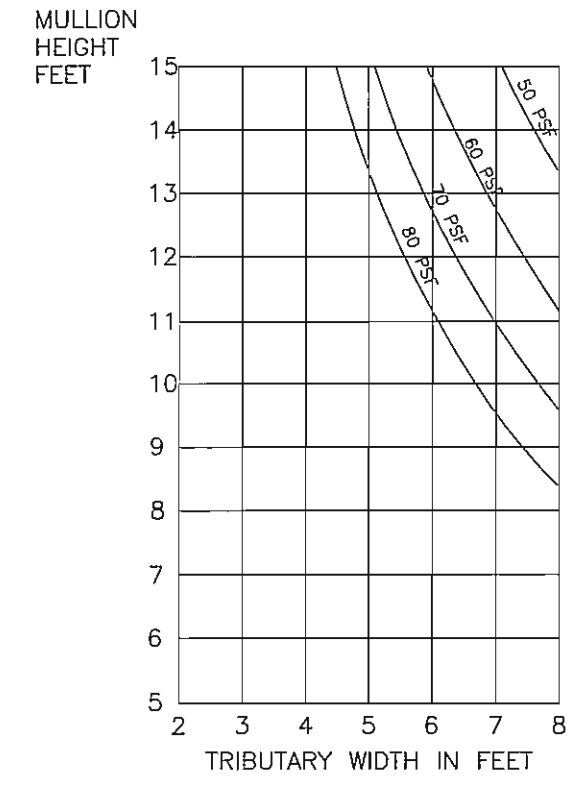
FOR EXAMPLE:

W1 = 4'-0"
W2 = 5'-0"
TRIBUTARY WIDTH = $\frac{4' + 5'}{2}$
TRIBUTARY WIDTH = 4'-6"

ANCHOR TYPE AT HEAD/SILL:
ONE (1) 5/16" DIA. GRADE 2 BOLT.
STEEL: FY=36 KSI MIN.
MINIMUM EDGE DISTANCE EQUALS 1.5 X BOLT DIAMETER.

NOTE: CONSULT FACTORY FOR AVAILABILITY AND PRICING FOR ANY STOCK LENGTHS OVER 24'-0"

WITH TWO (2) EACH ANCHOR ON EACH SIDE OF MULLION
AT HEAD AND SILL AND TWO (2) 4" X 4" X 1/4"
STEEL ANGLE AT MIDPOINT OF MULLION
REF. SHEET 31 FOR MIDPOINT CONNECTION



Lewis A. Waldrop
2/28/07
Lewis A. Waldrop, P.E.
FLA. P.E. #21959

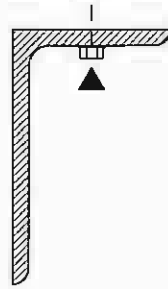
Lewis A. Waldrop, P.E.
P. O. Box 620
Alto, GA 30510
706-778-3784

DRAWINGS FOR
FLORIDA
PRODUCT APPROVAL

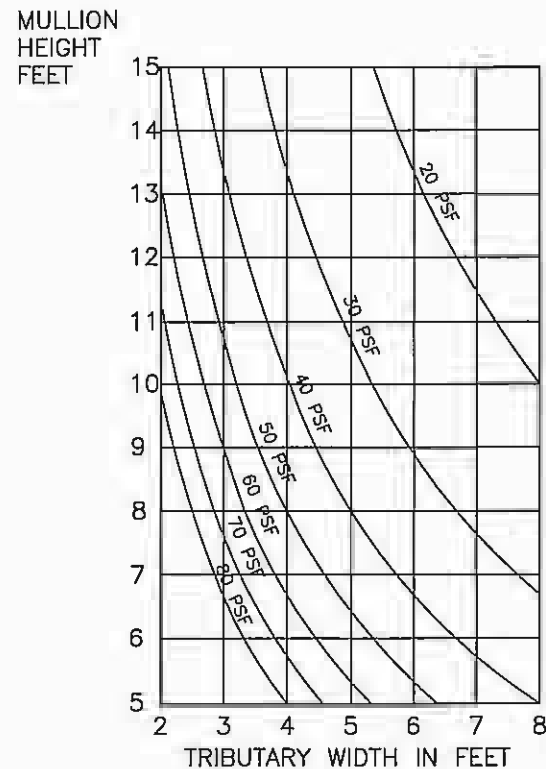
 Architectural Products 3070 RICE MINE ROAD, TUSCALOOSA, AL 35406 PHONE: 800-772-7737 FAX: 800-255-7320	
FLORIDA PRODUCT APPROVAL FOR PW251 CURTAIN WALL - B.G. AND CAPTURED	TWIN SPAN HEAD & SILL ANCHOR CHART - STEEL
DATE: 2/16/2007 DRAWN: PCH CHECKED: JDW APPROVED: JDW PROJECT NO.: HTL	DRAWING NO.: PW251-B SHEET: 29 OF 35

S:\ASSEMBLIES & FABRICATION\C.A.P\MOCK-UPS\FPA\PW251\B.G. MULLION\30 TWIN SPAN MULLION ATTACHMENT AT MIDPOINT - CONCRETE.dwg, 2/26/2007 1:10:07 P

REFERENCE DETAIL 1/12



WITH ONE (1) 4" X 4" X 1/4" STEEL ANGLE AT MULLION MIDPOINT

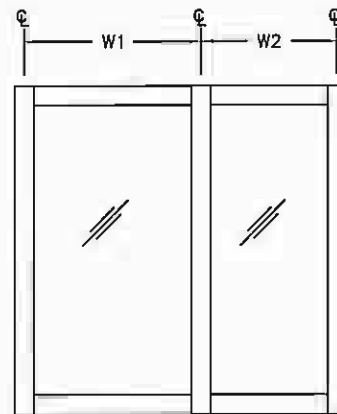


TWIN SPAN ANCHOR CHARTS FOR MIDPOINT ATTACHMENT OF STEEL ANGLE

ATTACH TO CONCRETE SLAB
(3,000 PSI CONCRETE SUBSTRATE)
TRIBUTARY WIDTH IN FEET

*SEE SHEET 28 OF 35 FOR MIDPOINT CONNECTION

FOR UNEQUAL MULLION SPACING CALCULATE TRIBUTARY WIDTH



$$\text{TRIBUTARY WIDTH} = \frac{W1 + W2}{2}$$

FOR EXAMPLE:

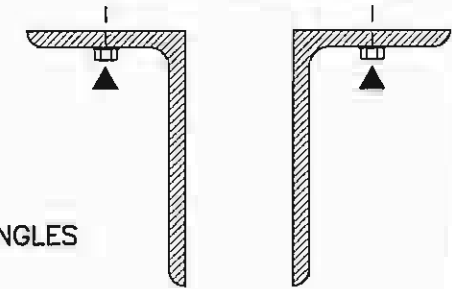
W1 = 4'-0"
W2 = 5'-0"
TRIBUTARY WIDTH = $\frac{4 + 5}{2}$
TRIBUTARY WIDTH = 4'-6"

STL. ANGLE ATTACHMENT AT MIDPOINT:

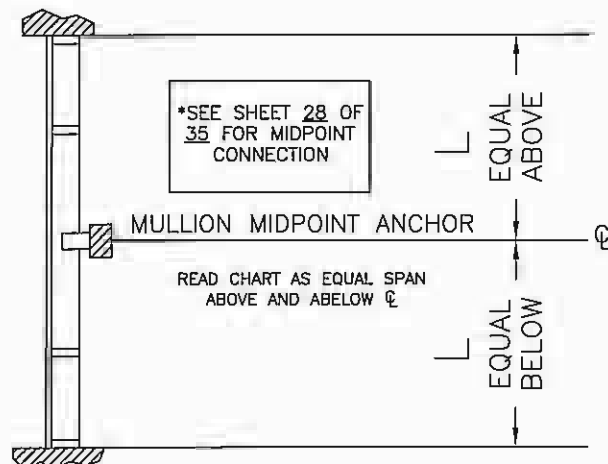
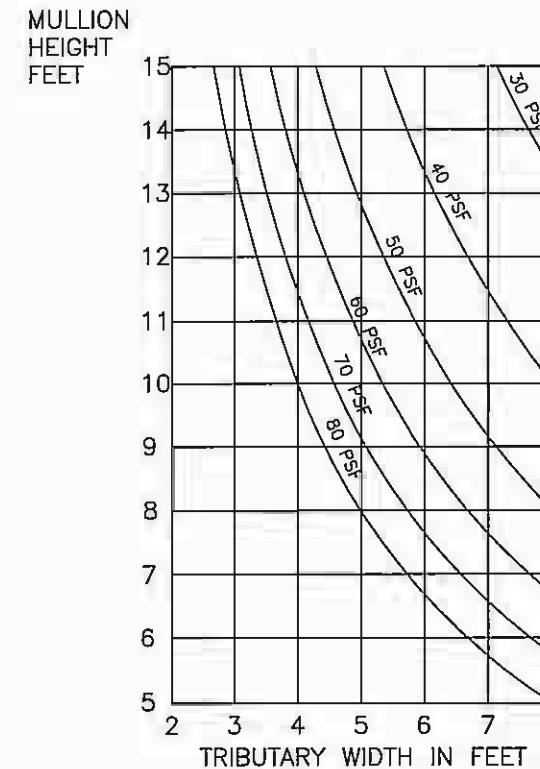
- ▲ TWO (2) 1/2" LDT TAPCON CONCRETE SCREW/STEEL ANGLE (ITW RAMSET/RED HEAD OR EQUIV.) WITH 3 1/2" EMBED. INTO CONCRETE, EACH SIDE OF MULLION: 5" MIN. EDGE DISTANCE, 6" MIN. SPACING

NOTE: CONSULT FACTORY FOR AVAILABILITY AND PRICING FOR ANY STOCK LENGTHS OVER 24'-0"

REFERENCE DETAIL 1/12



WITH TWO (2) 4" X 4" X 1/4" STEEL ANGLES AT MULLION MIDPOINT



NOTE: SELECT APPROPRIATE MULLION FOR JOB CONDITIONS FROM WINDLOAD CHARTS (SHEETS 23-24). MATCH WINDLOAD REQUIREMENTS AND MULLION SPACING TO ANCHOR CHARTS TO DETERMINE NUMBER OF ANCHORS REQUIRED.

NO.	REV	BY	DATE	DESCRIPTION

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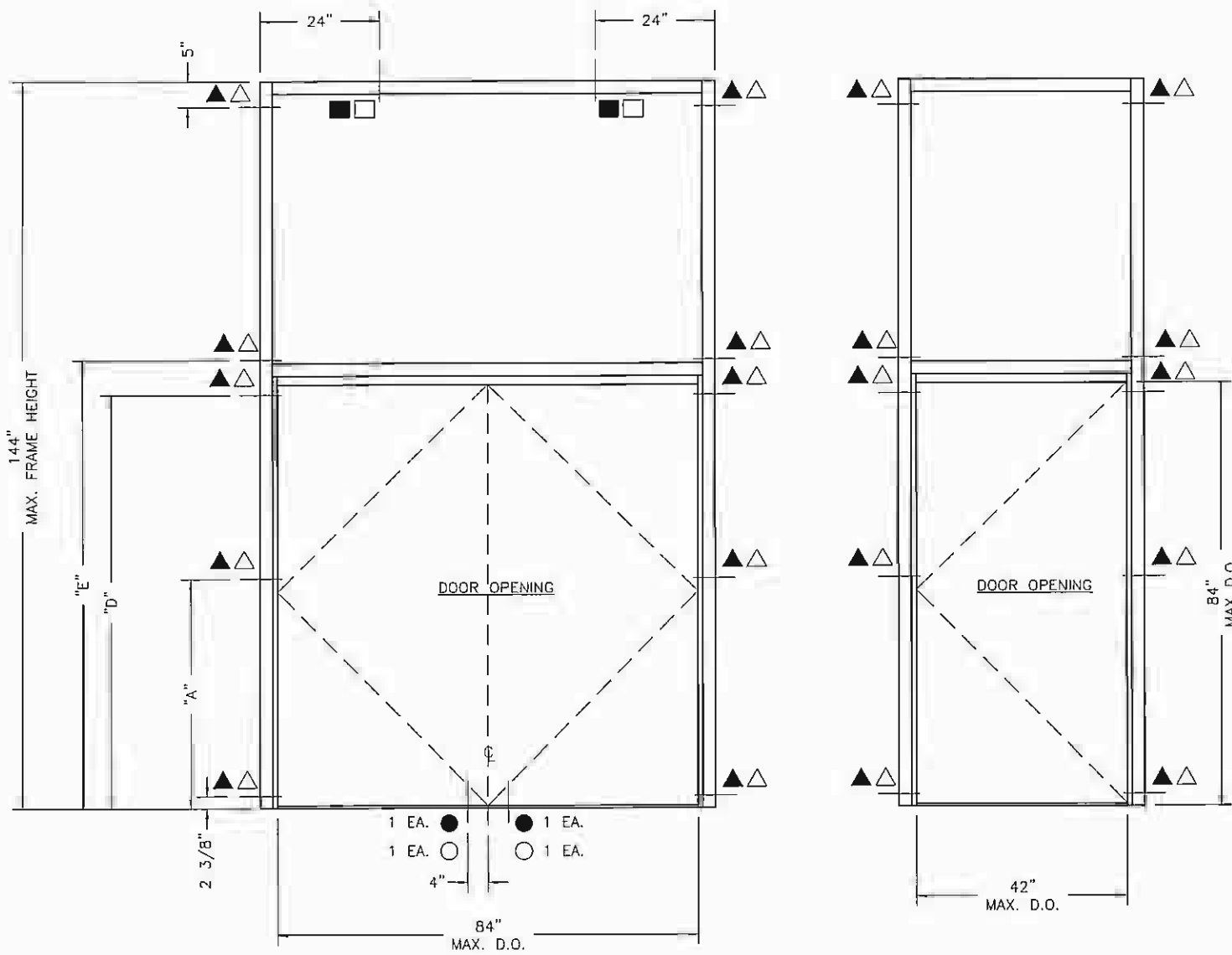
FLORIDA PRODUCT APPROVAL FOR PW251
CURTAIN WALL -
B.G. AND CAPTURED
TWIN SPAN MULLION ATTACHMENT AT
MIDPOINT - CONCRETE

Lewis A. Waldrop
2/26/07
Lewis A. Waldrop, P.E.
FLA. P.E. #21959

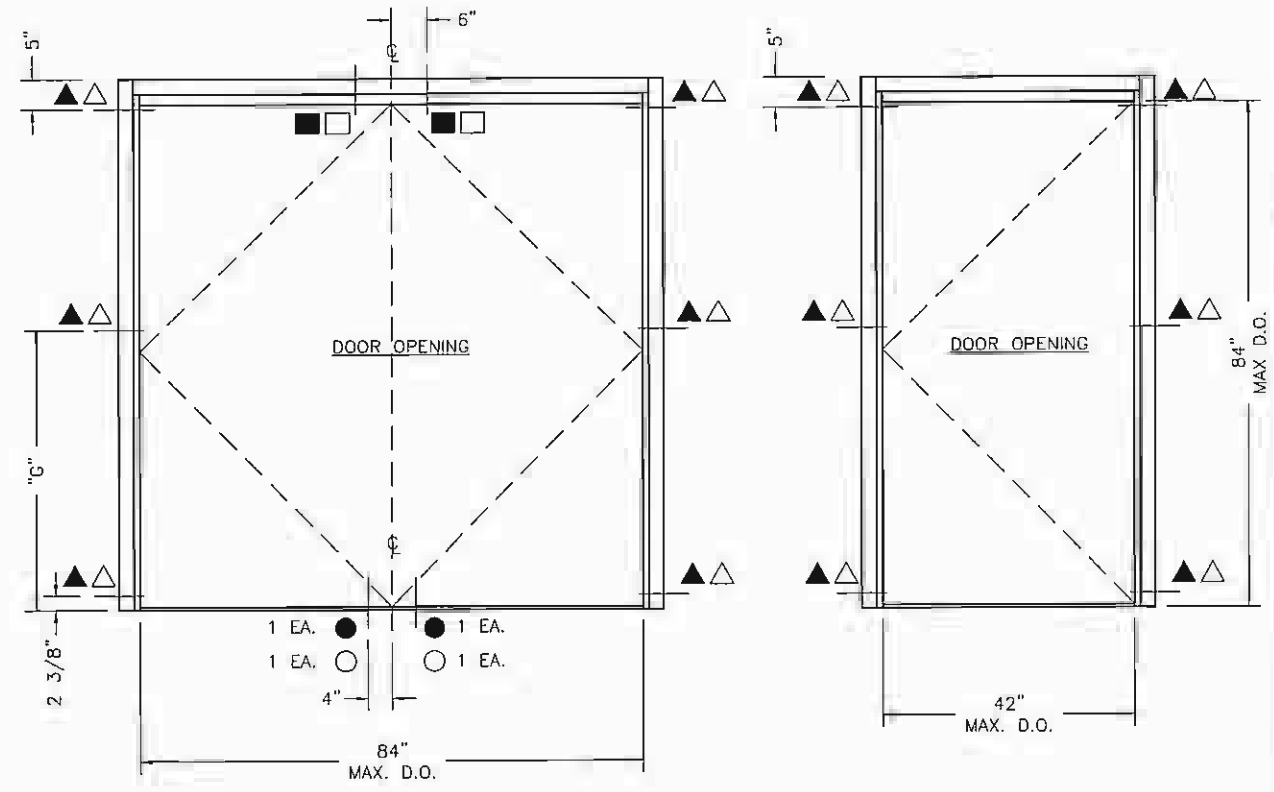
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DATE	2/26/2007	
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PCH	JDW	JDW
PROJECT NO.	HTL	
DRAWING NO.	PW251-B	
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S:\ASSEMBLIES & FABRICATION\C.A.P\MOCK-UPS\FPA/PW251\B.G. MULLION\32 DOOR FRAME ANCHOR CHART - UP TO 40 PSF.dwg, 2/7/2007 11:28:39 AM, phowel, \lppp://



TYPICAL ANCHOR LOCATIONS FOR
FRAMES WITHOUT SIDELIGHTS FOR STEEL
AND 3,000 PSI CONCRETE SUBSTRATES
FOR LOADS UP TO 40 PSF



PERIMETER FASTENER LOCATIONS								
DOOR OPENING HEIGHT	ANCHOR LOCATIONS FOR "LETTER" DIM.							
	"A"	"B"	"C"	"D"	"E"	"F"	"G"	"H"
84"	45 1/2"	51 1/2"	76"	82"	89"	95"	46 1/2"	50 1/2"
96"	45 1/2"	51 1/2"	88"	94"	100"	106"	46 1/2"	50 1/2"

TYP. INSTALLATION INTO: STEEL SUBSTRATE	
▲	3/8" GRADE 2 BOLT WITH FILLER PLATE FULL LENGTH OF MULLION
■	3/8" GRADE 2 BOLT
●	1/4" GRADE 2 MACHINE SCREW

TYP. INSTALLATION INTO: 3,000 PSI CONCRETE SUBSTRATE	
△	3/8" TAPCON, 2" MIN. EMBEDMENT WITH FILLER PLATE FULL LENGTH OF MULLION
□	3/8" TAPCON, 2" MIN. EMBEDMENT
○	1/4" TAPCON, 1 3/4" MIN. EMBEDMENT
6" MIN. SPACING ● 3/8" TAPCON	
3" MIN. SPACING ● 3/8" TAPCON	

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LAWaldrop

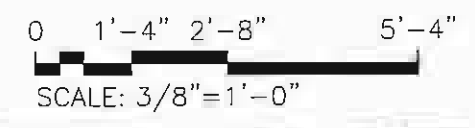
2-12-07

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PHONE: 800-772-7737 FAX: 800-255-7320

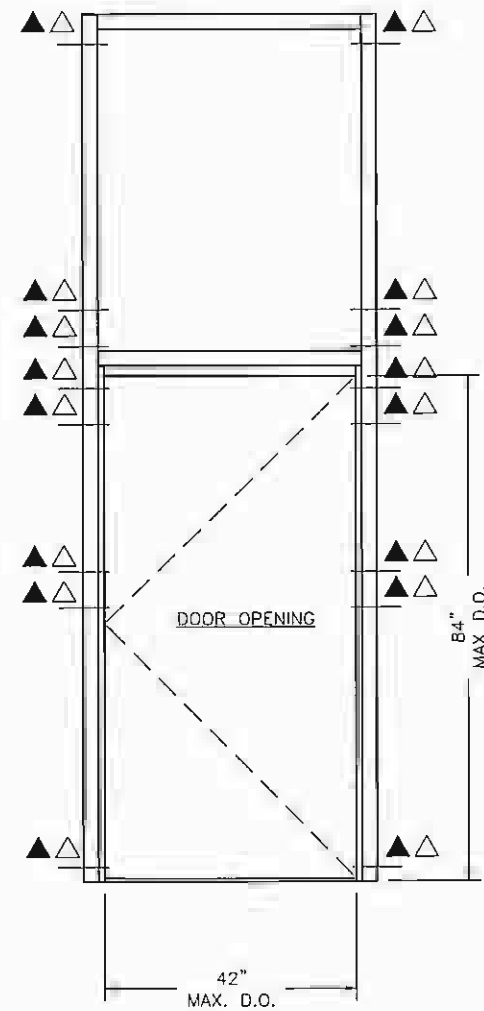
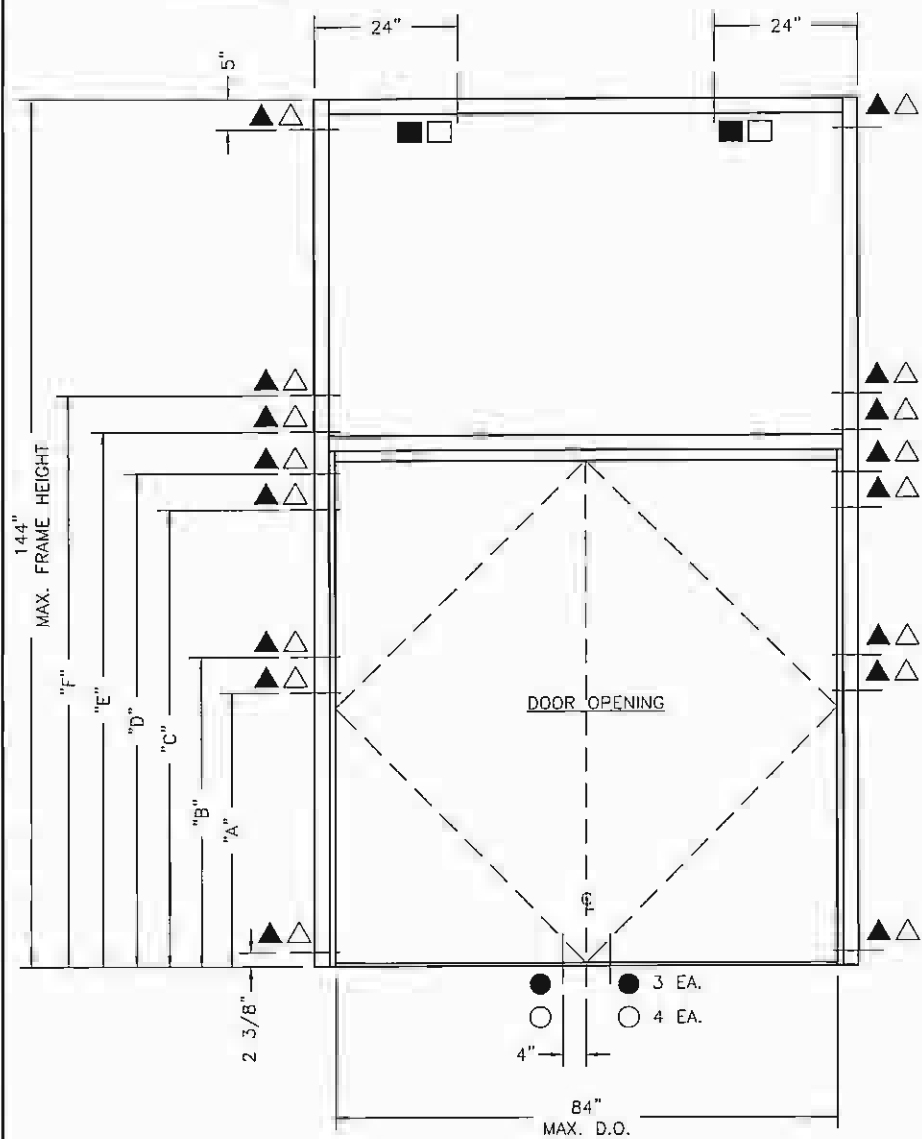
FLORIDA PRODUCT APPROVAL FOR PW251
CURTAIN WALL -
B.G. AND CAPTURED
DOOR FRAME ANCHOR CHART - UP TO 40
PSF

DATE	2/7/2007	
DRAWN	CHECKED	APPROVED
PCH	JDW	JDW
PROJECT NO.	FLORIDA APPROVAL	
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SHEET	32 OF 35	

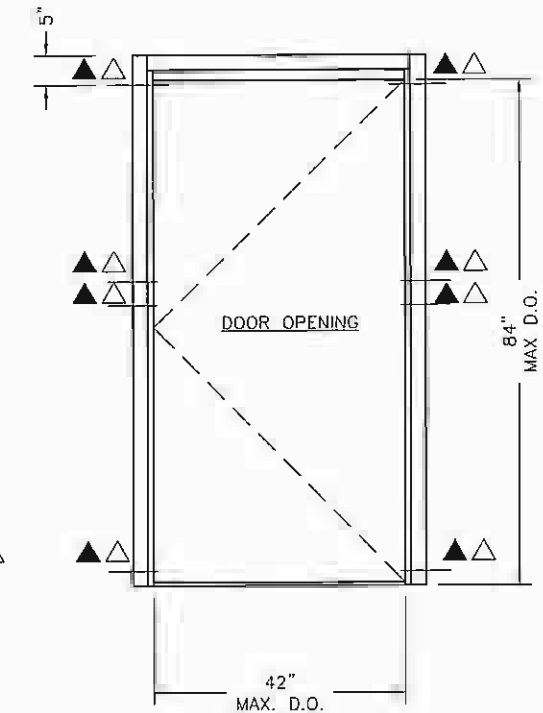
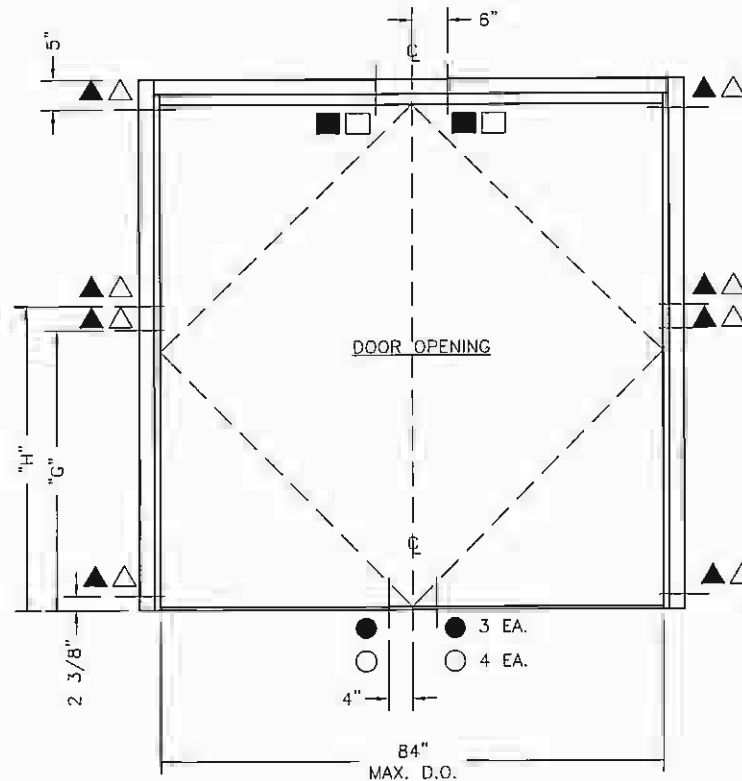


DRAWINGS FOR
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PRODUCT APPROVAL

S:\ASSEMBLIES & FABRICATION\C.A.P\MOCK-UPS\FRAME\PW251\B.G. MULLION\33 DOOR FRAME ANCHOR CHART - 40-80 PSF.dwg, 2/7/2007 11:28:44 AM, phowel, \lpp://192



TYPICAL ANCHOR LOCATIONS FOR
FRAMES WITHOUT SIDELIGHTS FOR STEEL
AND 3,000 PSI CONCRETE SUBSTRATES
FOR LOADS 40 PSF TO 80 PSF



PERIMETER FASTENER LOCATIONS								
DOOR OPENING HEIGHT	ANCHOR LOCATIONS FOR "LETTER" DIM.							
	"A"	"B"	"C"	"D"	"E"	"F"	"G"	"H"
84"	45 1/2"	51 1/2"	76"	82"	89"	95"	46 1/2"	50 1/2"
96"	45 1/2"	51 1/2"	88"	94"	100"	106"	46 1/2"	50 1/2"

TYP. INSTALLATION INTO: STEEL SUBSTRATE	
▲	3/8" GRADE 2 BOLT WITH FILLER PLATE FULL LENGTH OF MULLION
■	3/8" GRADE 2 BOLT
●	1/4" GRADE 2 MACHINE SCREW

TYP. INSTALLATION INTO: 3,000 PSI CONCRETE SUBSTRATE	
△	3/8" TAPCON, 2" MIN. EMBEDMENT WITH FILLER PLATE FULL LENGTH OF MULLION
□	3/8" TAPCON, 2" MIN. EMBEDMENT
○	1/4" TAPCON, 1 3/4" MIN. EMBEDMENT
6" MIN. SPACING ● 3/8" TAPCON	
3" MIN. SPACING ● 3/8" TAPCON	

0 1'-4" 2'-8" 5'-4"
SCALE: 3/8"=1'-0"

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DRAWINGS FOR
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PRODUCT APPROVAL

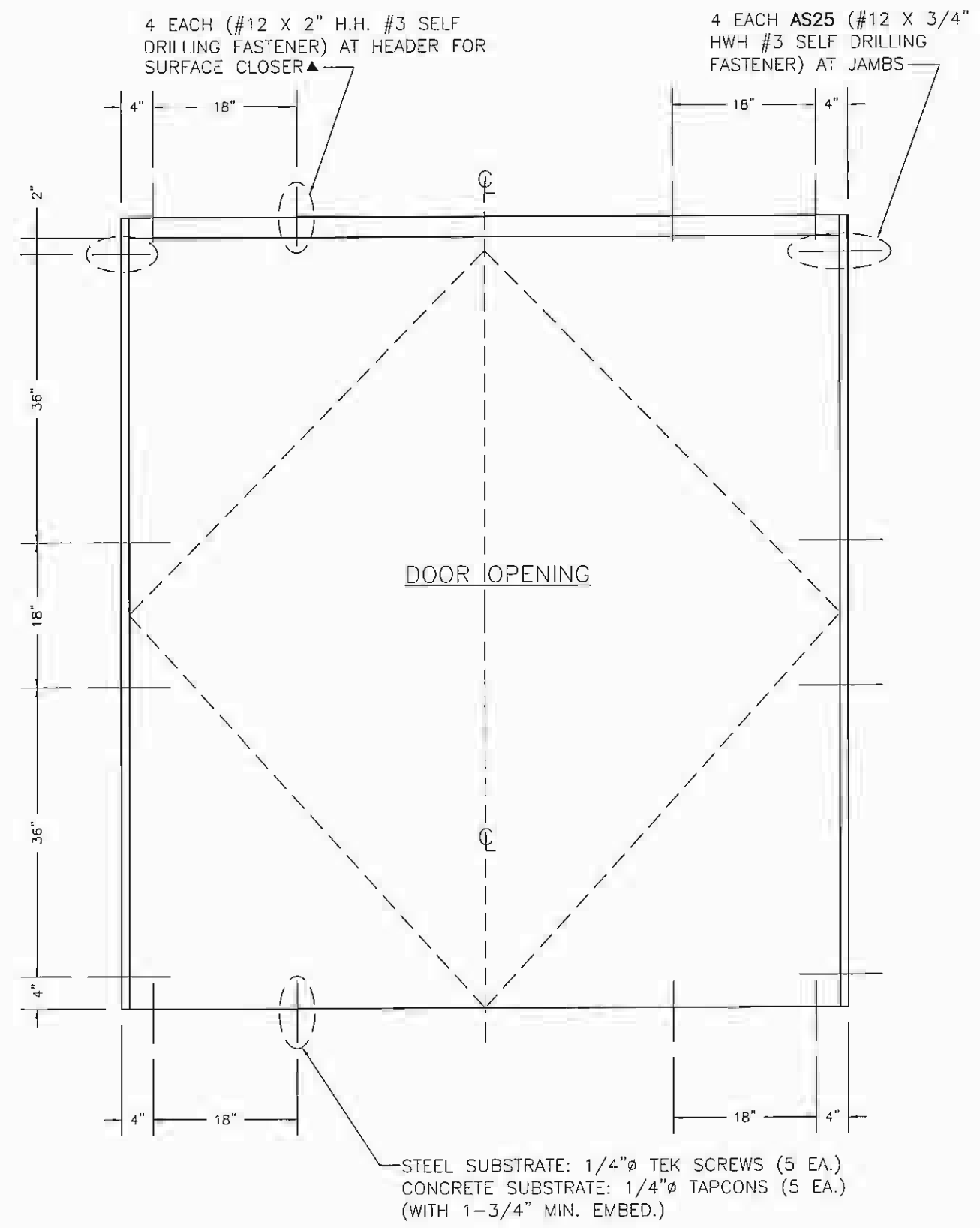
FLORIDA PRODUCT APPROVAL FOR PW251
CURTAIN WALL -
B.G. AND CAPTURED
DOOR FRAME ANCHOR CHART - 40-80 PSF

DATE	2/7/2007	
DRAWN	CHECKED	APPROVED
PCH	JDW	JDW
PROJECT NO.	HTL	
DRAWING NO.	PW251-B	
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S:\ASSEMBLIES & FABRICATION\C.A.P\MOCK-UPS\FPA\PW251\B.G. MULLION\34 SUBFRAME FASTENER CHART.dwg, 2/7/2007 11:28:49 AM, phowel, \\ipp:/192.168.9.25\CAP



▲ FOR C.O.C. TUBULAR HEADER, USE 4 EACH AS25 WITH ACCESS HOLES CONCEALED UNDER DS202-1 OFFSET ARM COVER.

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FLORIDA PRODUCT APPROVAL FOR PW251
CURTAIN WALL -
B.G. AND CAPTURED
SUBFRAME FASTENER CHART


DATE	2/7/2007	
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DRAWINGS FOR
FLORIDA
PRODUCT APPROVAL

GLAZING SCHEDULE				
GLASS MARK SYMBOL	GLASS TYPE	MANUFACTURER	MAXIMUM D.L.O. SIZE	MAXIMUM SQUARE FEET
A	1/4" TEMPERED OUTER SURFACE, 1/2" AIR SPACE, 1/4" TEMPERED INNER SURFACE	VARIES	57 1/2" x 96"	38.3

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DRAWINGS FOR
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FLORIDA PRODUCT APPROVAL FOR PW251
 CURTAIN WALL -
 B.G. AND CAPTURED
 GLAZING SCHEDULE

DATE 2/7/2007

DRAWN PCH	CHECKED JDW	APPROVED JDW
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PROJECT NO. HTL

DRAWING NO. PW251-B

SHEET 35 OF 35



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FRAME ASSEMBLY

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L. Waldrop

2-21-07

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Sheets **A1-14** (Installation Instructions) have been reviewed from a structural perspective only. The aluminum curtain wall framing members must be attached to the building structure as shown on **Sheets 1-35**.

Gasket Installation

STEP 1.

Prior to assembly of frames, install the following gaskets into the fabricated framing members:

Back Members: **NG10**

Intermediate Pressure Bars: **NG10**

Perimeter Pressure Bars: **NG10** (against glass) and **NG11** (against aluminum) (Reference **Detail "A"** on **Sheet A10**).

Spacer gasket for B.G. Mullion: **NG14**

GASKET INSTALLATION PROCEDURES (Do not stretch gaskets)

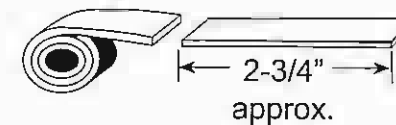
1. Cut gaskets allowing for 1/8" extra length per foot of framing members to accommodate shrinkage.
2. **NG10** gaskets for vertical back members are cut D.L.O. plus 1-1/4". (Reference **Detail "A"** on **Sheet A10**).
3. **NG14** Vertical spacer gasket runs full length on **PW151** B.G. mullion. (Reference **Detail "B"** on **Sheet A10**).
4. Cut horizontal spacer gasket to D.L.O.
5. Horizontal pressure bar: glazing gasket should extend 1/8" beyond end of pressure bar.
6. Vertical pressure bar: gasket runs full length.

Joinery Tape Application

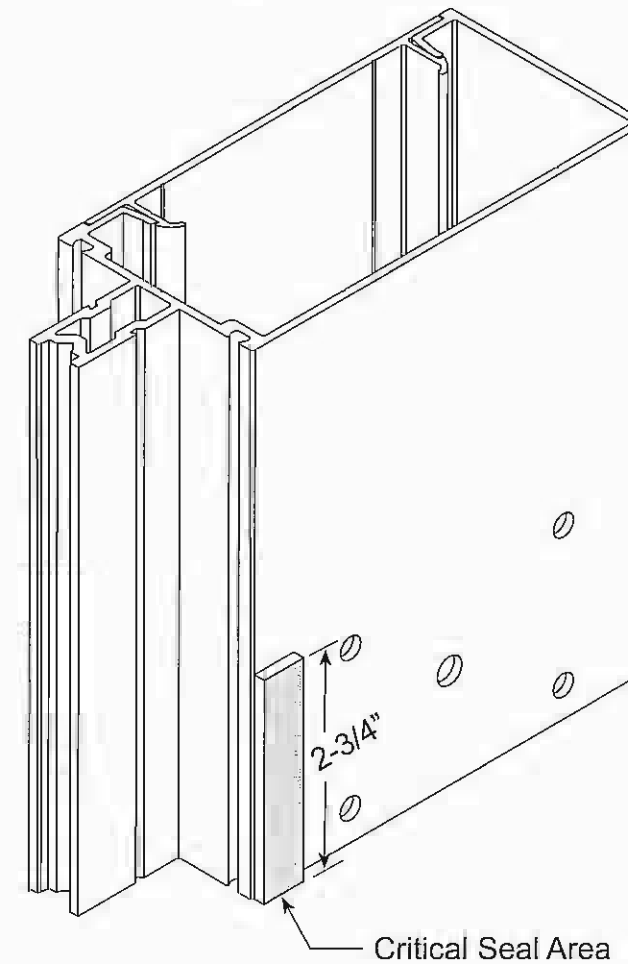
STEP 2.

GLAZING TAPE INSTALLATION PROCEDURES: Ref. Step 3.

1. Cut **SM5601** 1/8" x 1/2" Tacky Tape approximately 2-3/4" long.
2. Clean surfaces where tape is to be applied with isopropyl alcohol or solvent to remove all dirt and cutting oils. Allow surface to dry before applying tape.
3. Position tape on vertical mullions at horizontal joint intersections.
4. Just prior to frame assembly, remove protective cover and screw joints together.
5. Use a box knife to trim excess sealant tape where exposed. Do not pull tape to trim.



Schnee-Morehead
SM5601
1/8" x 1/2" Tacky Tape.



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FLORIDA PRODUCT APPROVAL
FOR PW251 CURTAIN WALL -
B.G. AND CAPTURED
INDEX TO DRAWINGS AND NOTES

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FRAME ASSEMBLY

CAPTURED FRAME Vertical to Horizontal Joinery

B.G. MULLION FRAME Vertical to Horizontal Joinery

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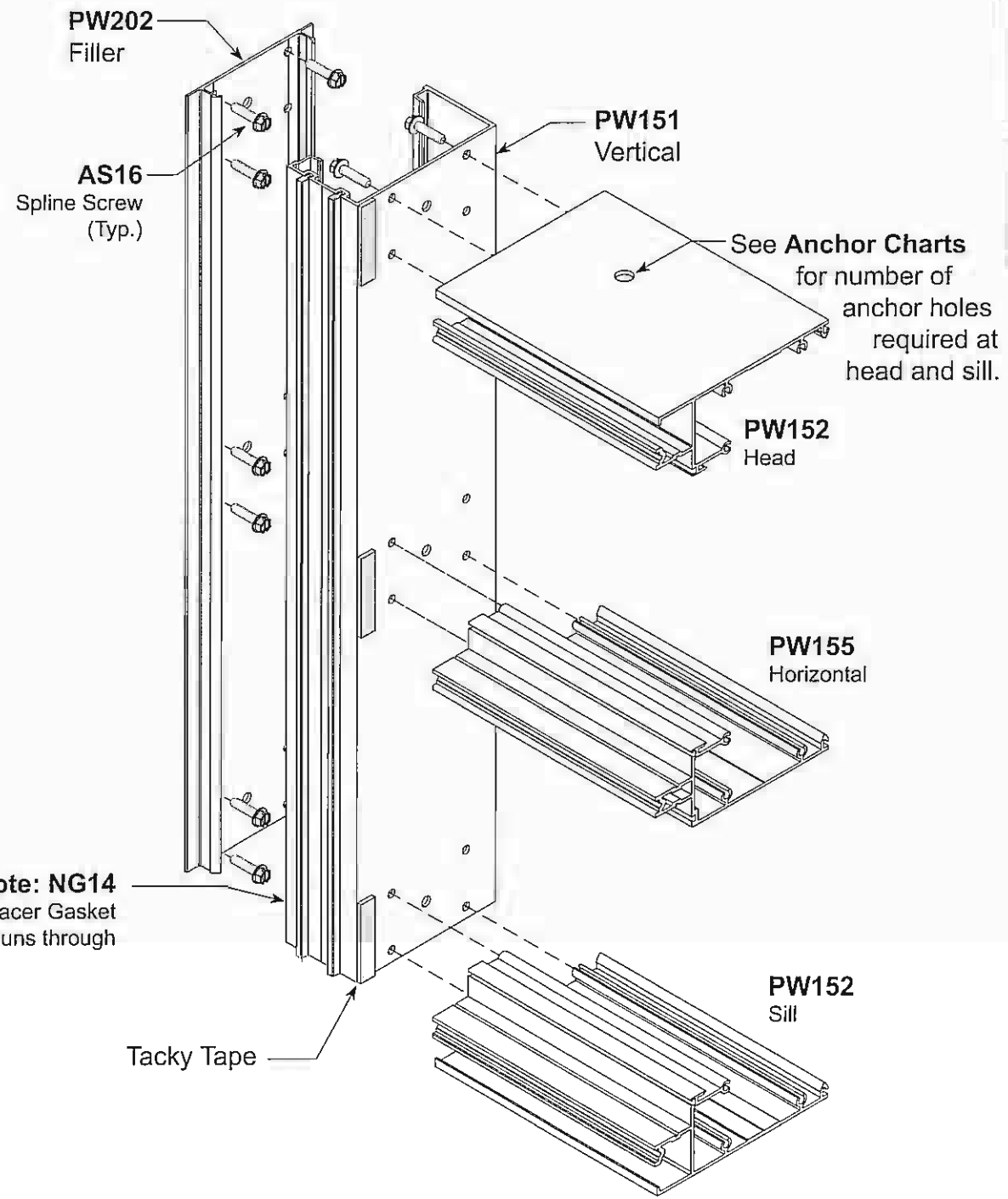
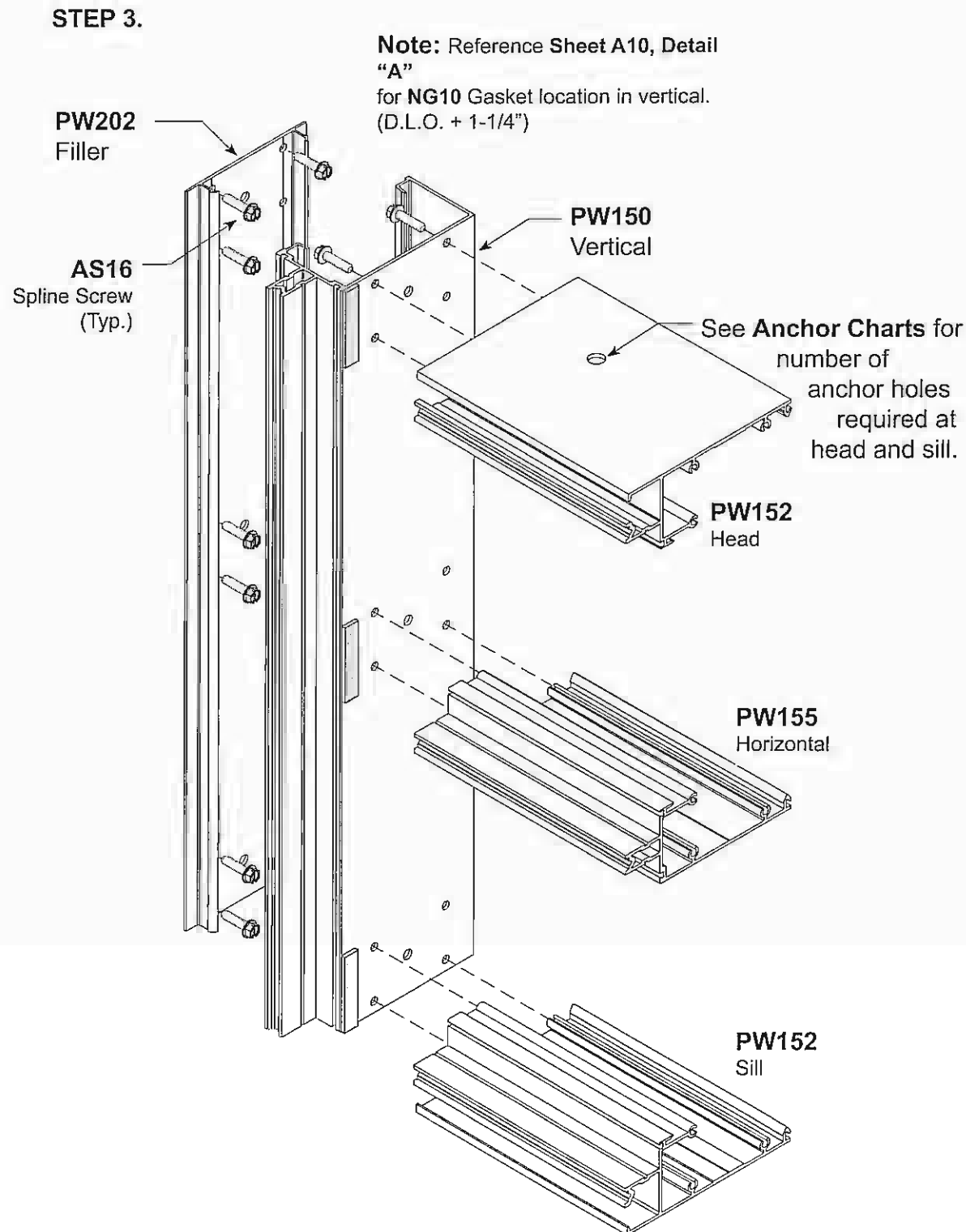
Sheets **A1-14** (Installation Instructions) have been reviewed from a structural perspective only. The aluminum curtain wall framing members must be attached to the building structure as shown on **Sheets 1-35**.

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FLORIDA PRODUCT APPROVAL
FOR PW251 CURTAIN WALL -
B.G. AND CAPTURED
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SHEET	A2 of A14	

STEP 4.



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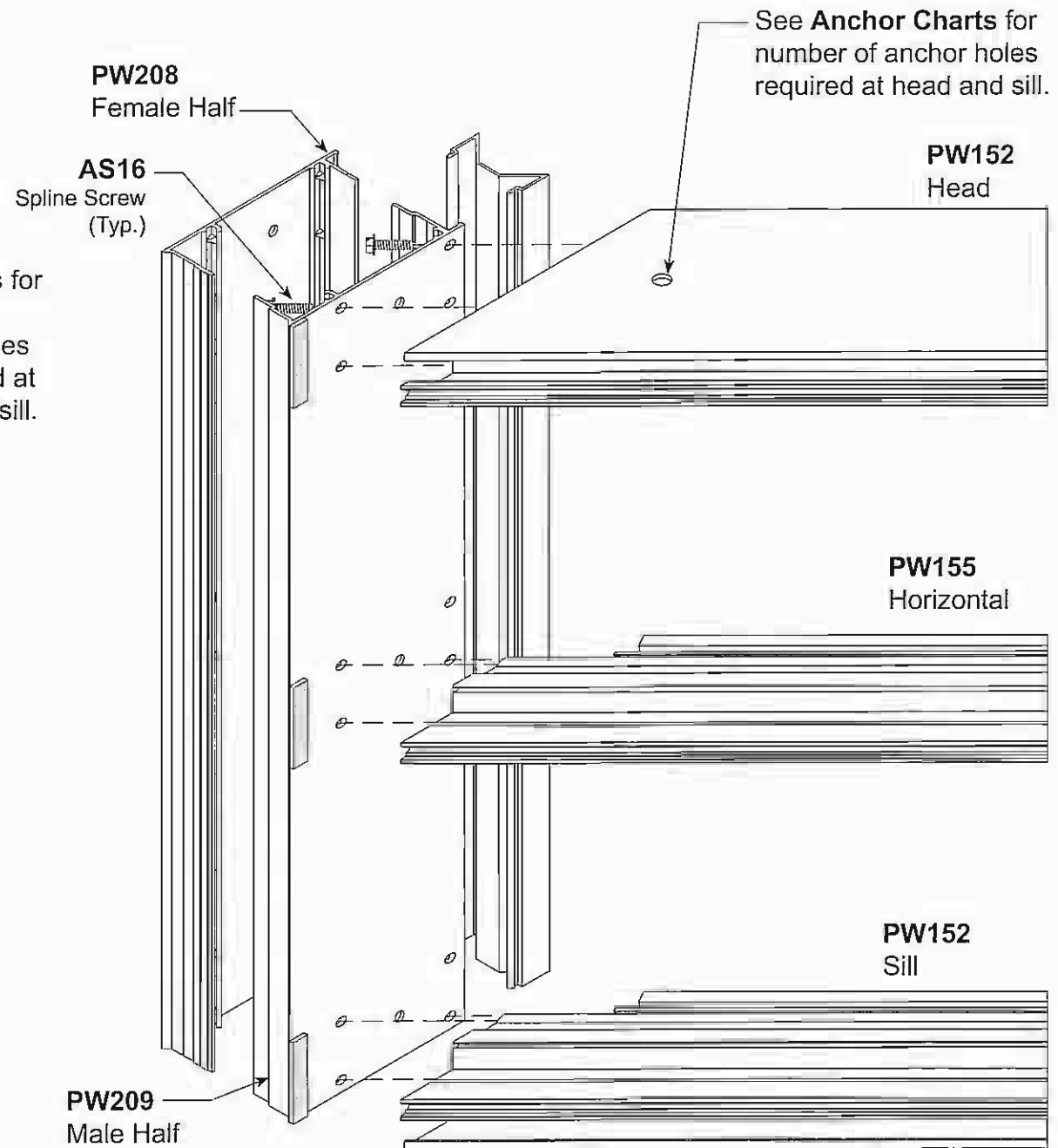
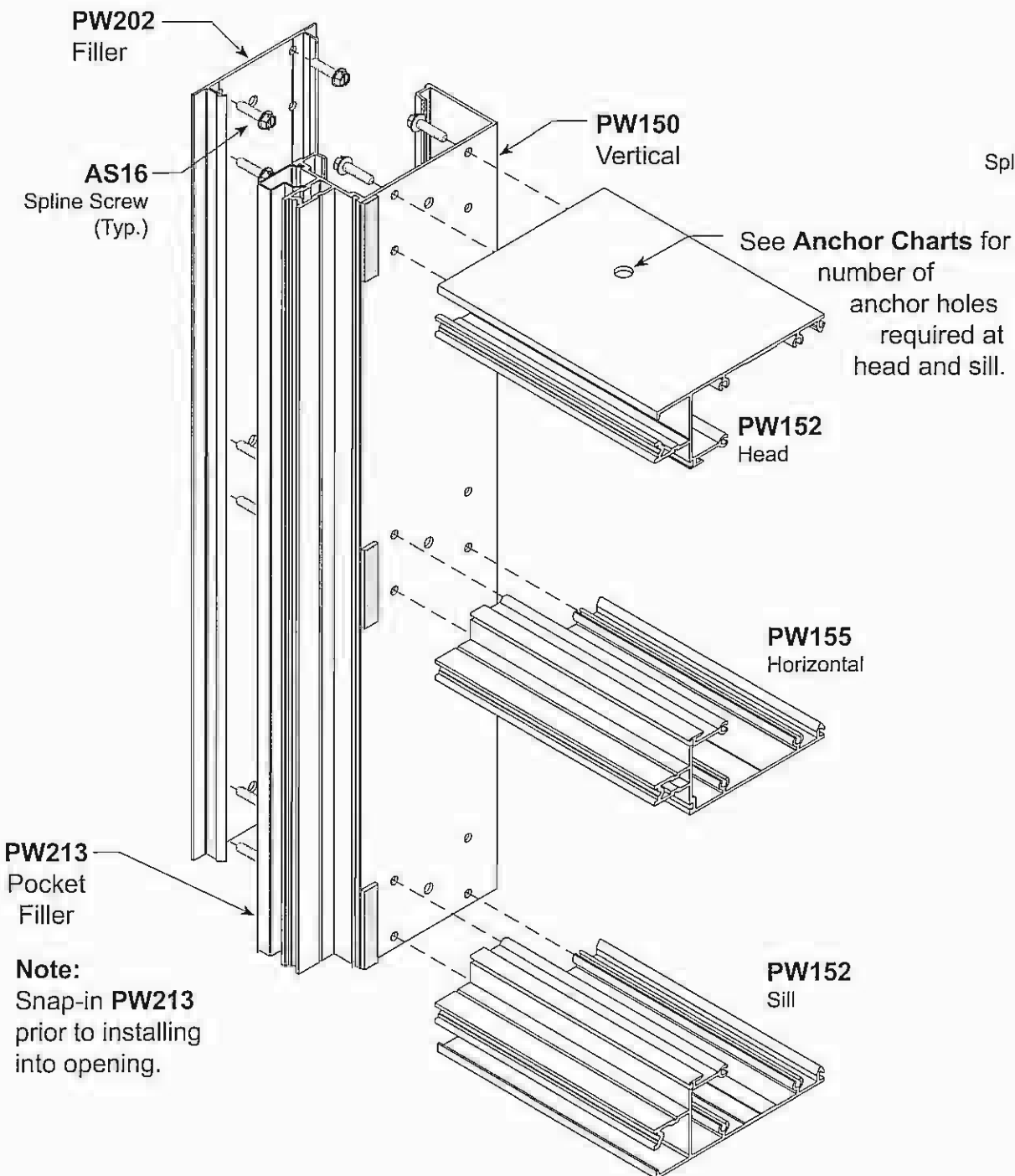
WALL JAMB ASSEMBLY Vertical to Horizontal Joinery

OUTSIDE CORNER ASSEMBLY Corner to Horizontal Joinery

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STEP 5.

STEP 6.



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Sheets **A1-14** (Installation Instructions) have
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The aluminum curtain wall framing members
must be attached to the building structure
as shown on **Sheets I-35**.

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FLORIDA PRODUCT APPROVAL
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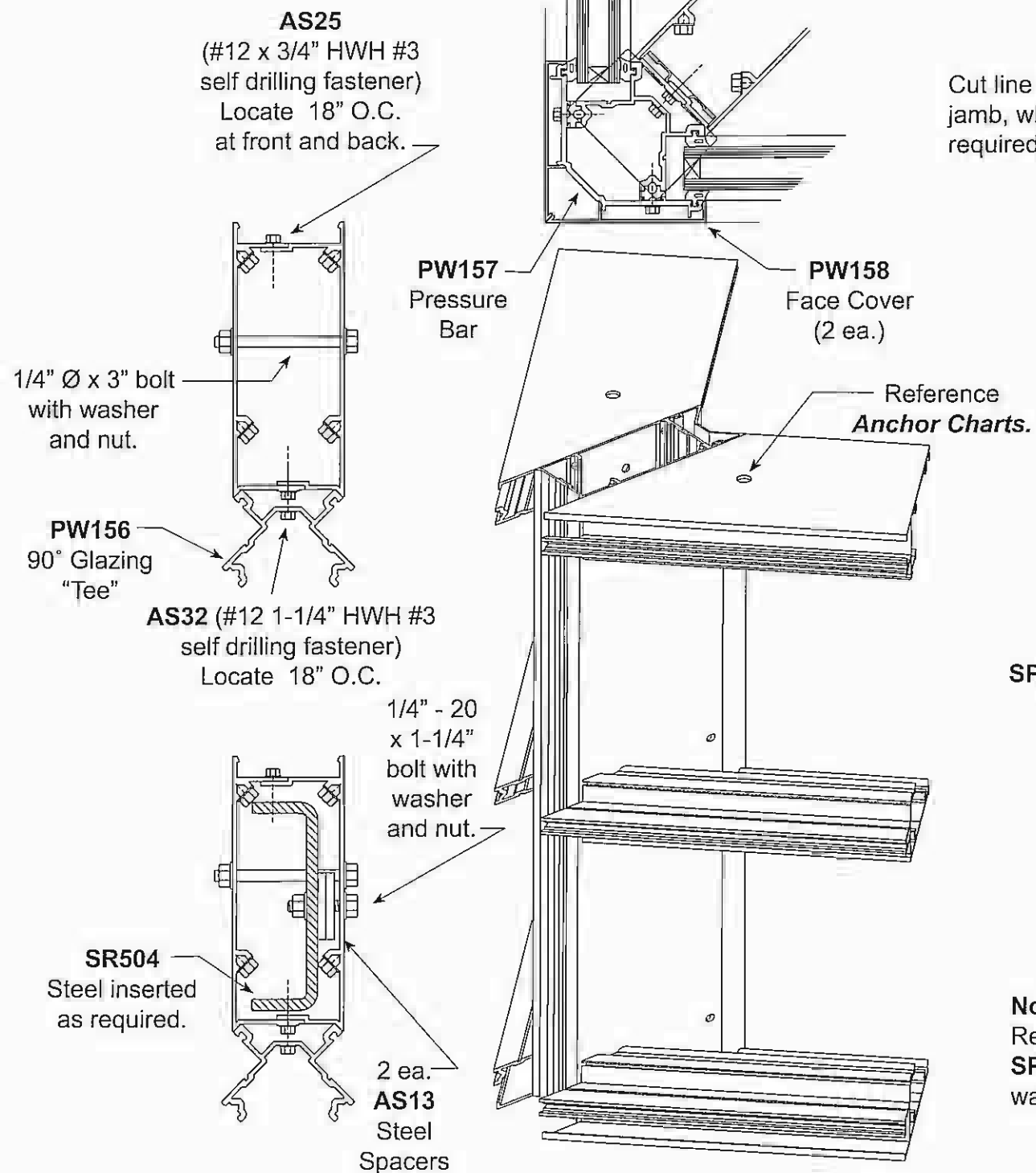
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SHEET	A3 of A14	

FRAME ASSEMBLY

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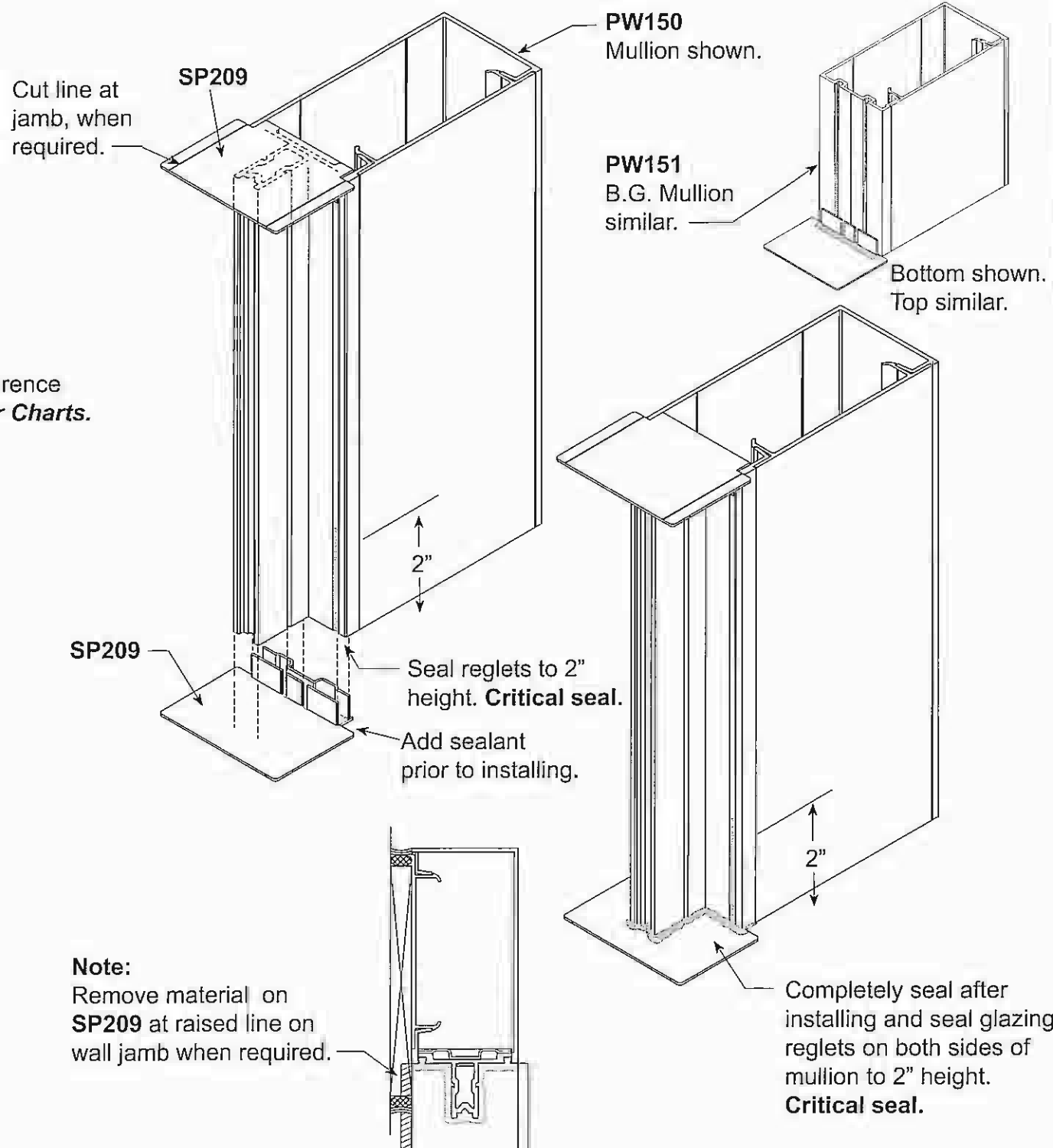
OUTSIDE CORNER Corner Assembly Fasteners

STEP 7.



MULLION CAP Captured and B.G.

STEP 8. Prior to installing frames into opening, install injection molded plastic **SP209** mullion caps at top and bottom of vertical members as shown below to ensure continuous perimeter seal.



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Sheets **A1-14** (Installation Instructions) have been reviewed from a structural perspective only. The aluminum curtain wall framing members must be attached to the building structure as shown on **Sheets 1-35**.

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B.G. AND CAPTURED
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SHEET	A4 of A14	

FRAME INSTALLATION

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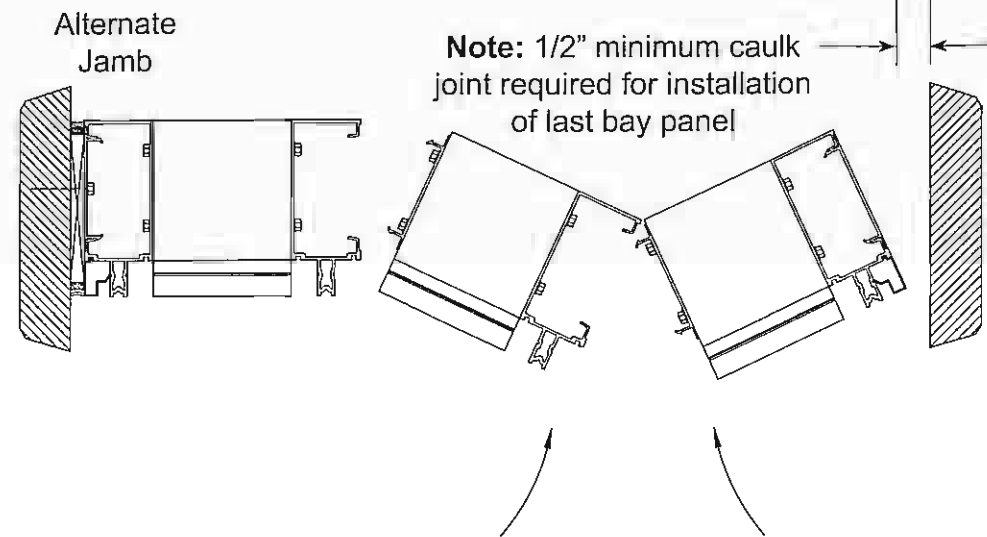
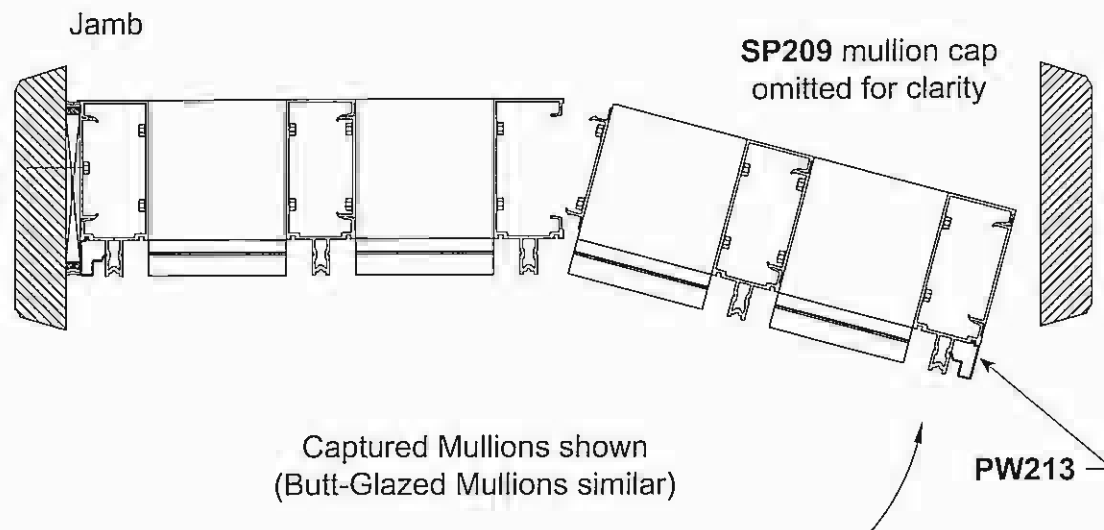
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Panelized Assembly

STEP 1.

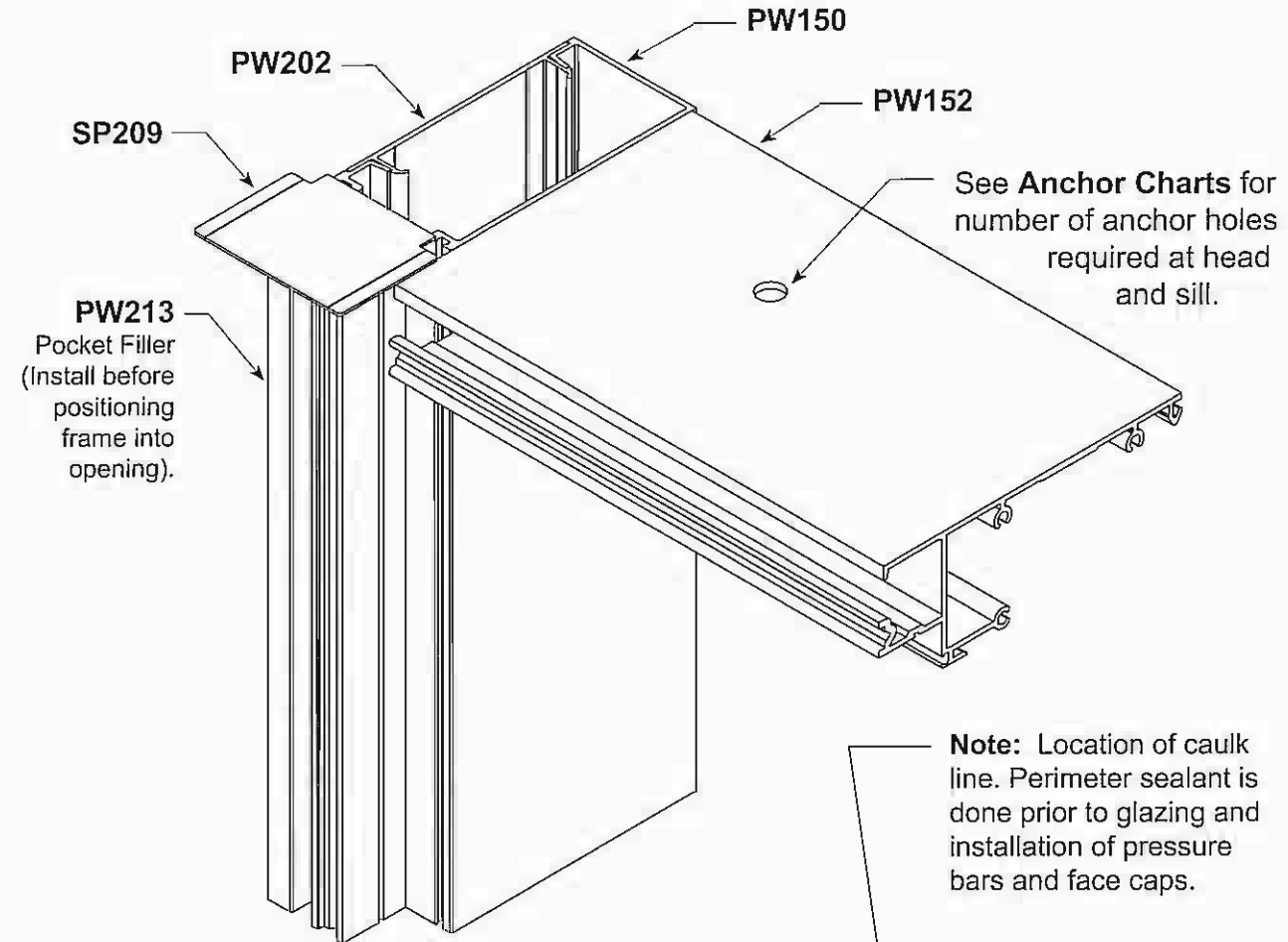
Install assembled frame panels into opening starting with jamb and continue working toward the last bay until the last panel is installed. Reference illustrations shown below for sequencing.

Note: Snap-in **PW202** flat filler and **PW213** pocket filler into jambs prior to installing. **PW213** is difficult to install after jambs are installed due to limited work space.



Typical Jamb

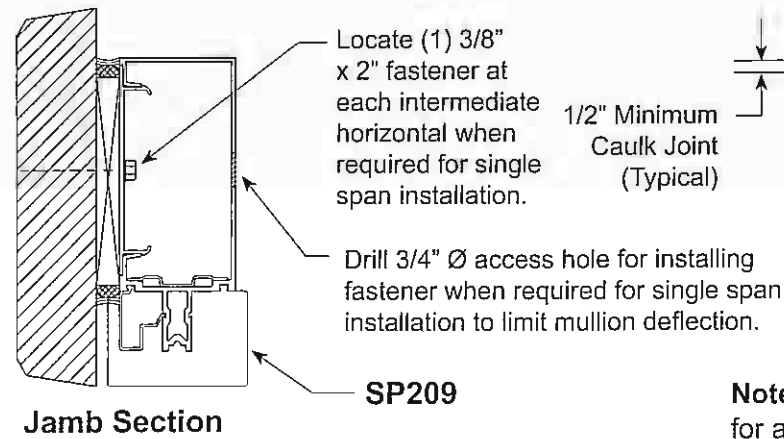
STEP 2.



PW213
Pocket Filler
(Install before
positioning
frame into
opening).

See Anchor Charts for
number of anchor holes
required at head
and sill.

Note: Location of caulk
line. Perimeter sealant is
done prior to glazing and
installation of pressure
bars and face caps.



1/2" Minimum
Caulk Joint
(Typical)

Head Section shown
(Sill Section similar)

Note: Reference **CAP Anchor Charts**
for anchor type and embedment
depending on loads and substrate.

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Sheets **A1-14** (Installation Instructions) have
been reviewed from a structural perspective only.
The aluminum curtain wall framing members
must be attached to the building structure
as shown on **Sheets 1-35**.

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FLORIDA PRODUCT APPROVAL
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B.G. AND CAPTURED
INDEX TO DRAWINGS AND NOTES

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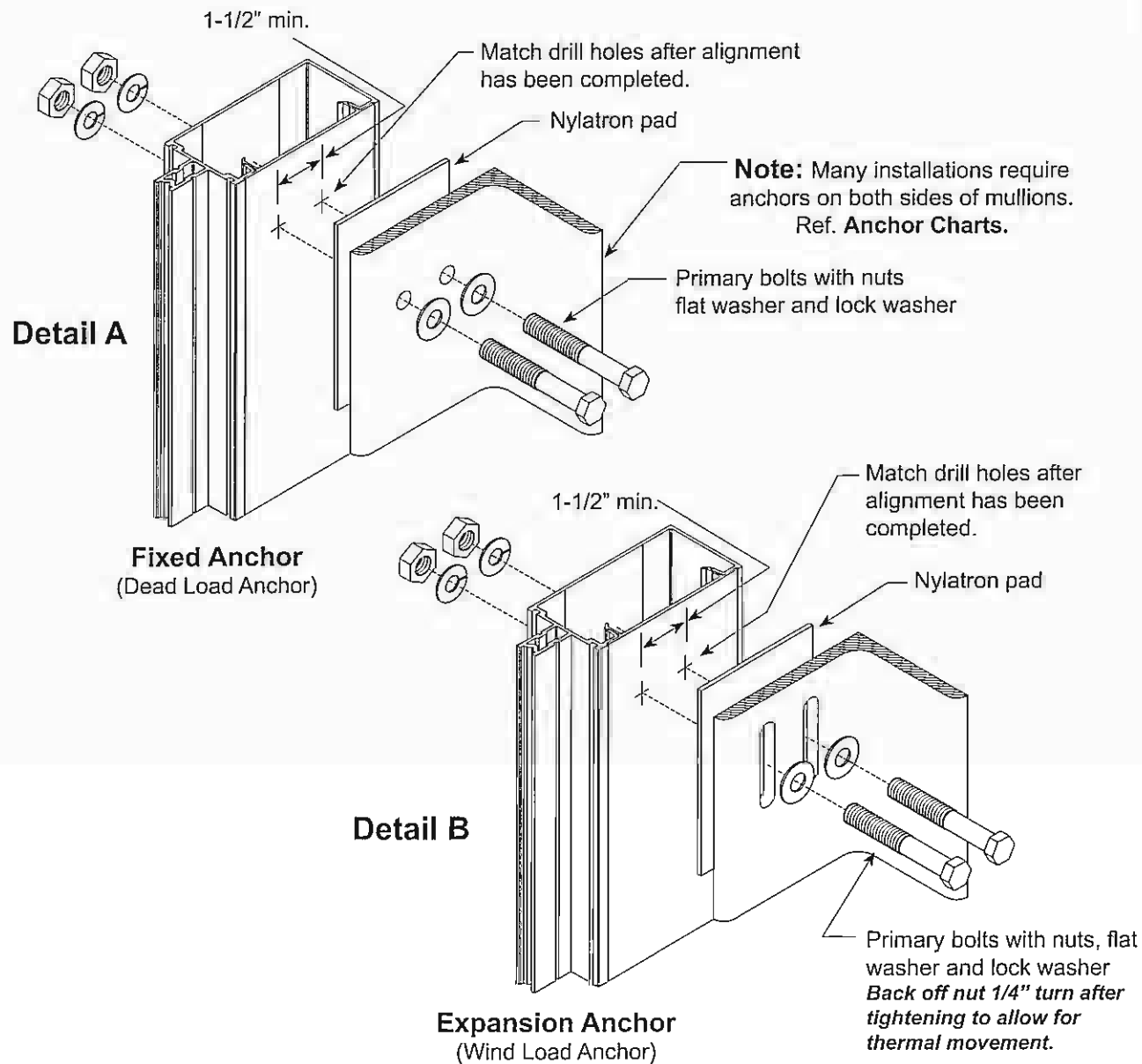
FRAME INSTALLATION

STEEL ANCHOR Twin-Span Condition

Details A and B show fixed (dead load) and expansion (wind load) anchors. Anchor type, size and quantity vary per job requirements. Details shown are to be used as a guide only. See approved shop drawings for actual conditions.

Step 1. Secure verticals to anchor clips after alignment has been completed.

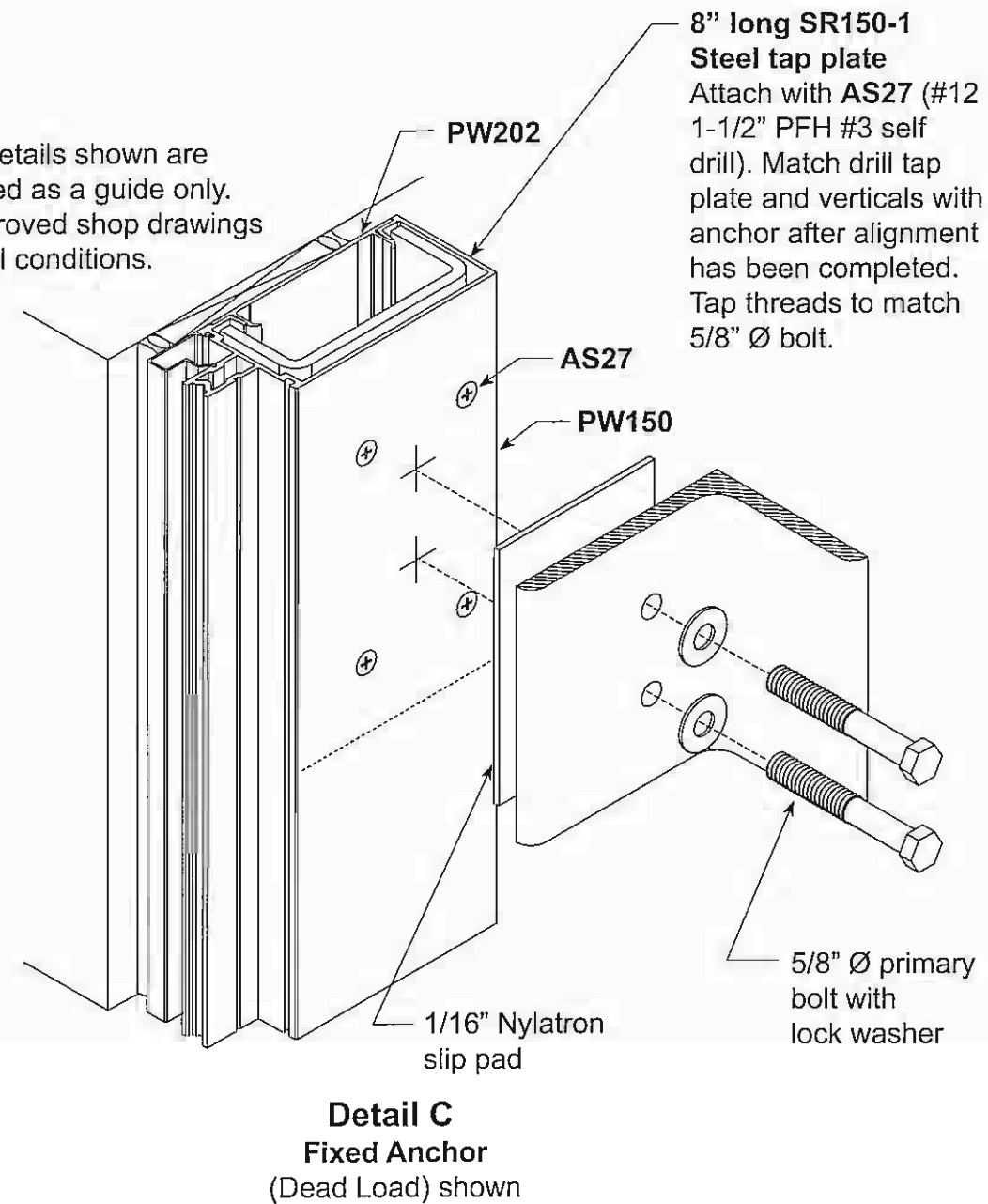
Note: Mullion spacing must be held to within $\pm 1/32"$. Check overall frame dimension every four bays to monitor dimension build up.



JAMB ANCHOR Twin-Span Condition

STEP 2.

Note: Details shown are to be used as a guide only. See approved shop drawings for actual conditions.



Note: Reference Detail B for wind load anchor.

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Sheets A1-14 (Installation Instructions) have been reviewed from a structural perspective only. The aluminum curtain wall framing members must be attached to the building structure as shown on Sheets 1-35.

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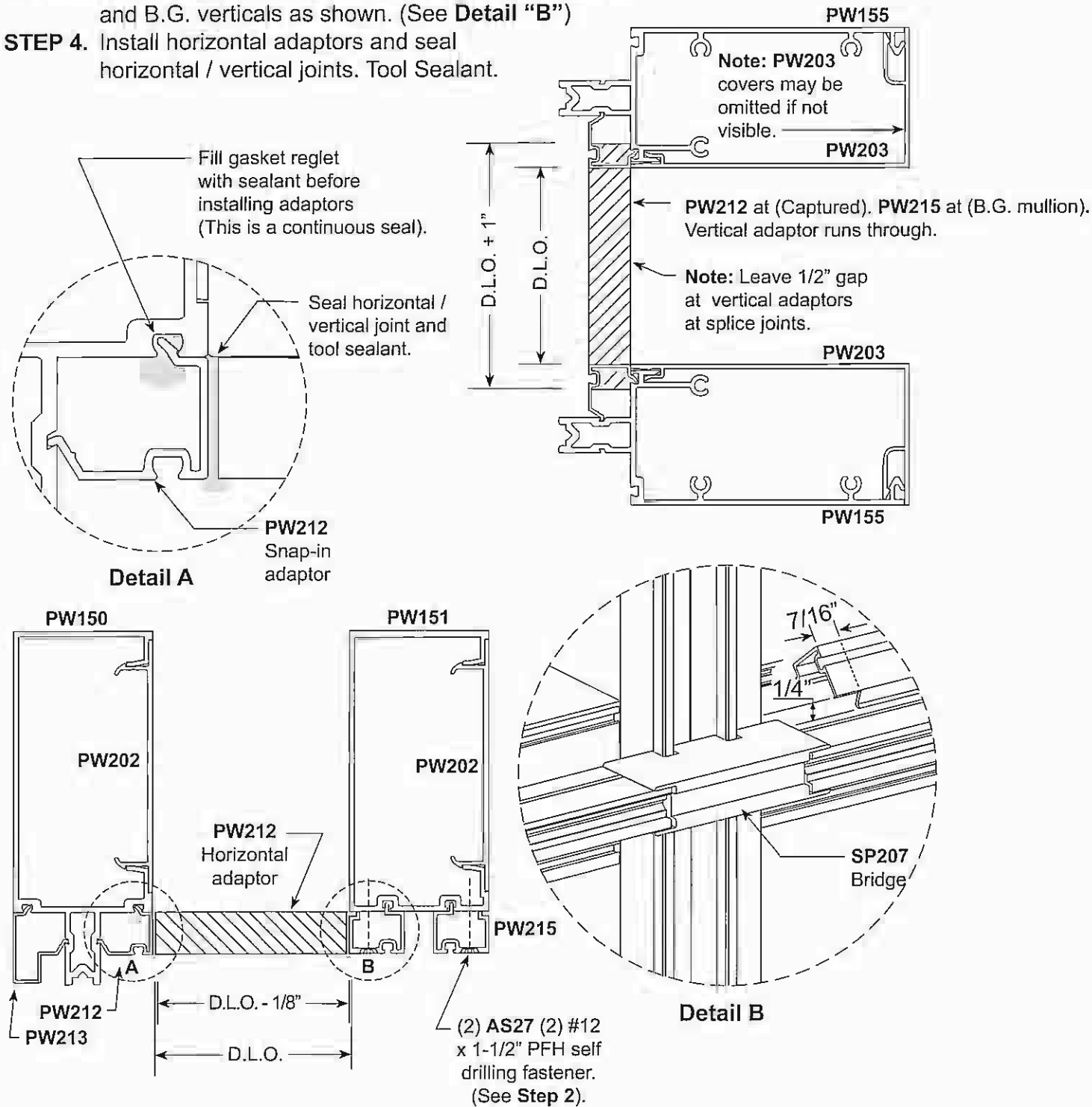
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FRAME INSTALLATION

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1/4" Transition Glazing at Captured or B.G. Mullion

- STEP 1.** Apply sealant into gasket reglets before installing transition adaptors.
- STEP 2.** Install vertical adaptors first. Attach PW215 with AS27 fastener approximately 3" from each end and 18" O.C.
- STEP 3.** Notch horizontal adaptors at intersection of captured and B.G. verticals as shown. (See Detail "B")
- STEP 4.** Install horizontal adaptors and seal horizontal / vertical joints. Tool Sealant.



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FRAME INSTALLATION

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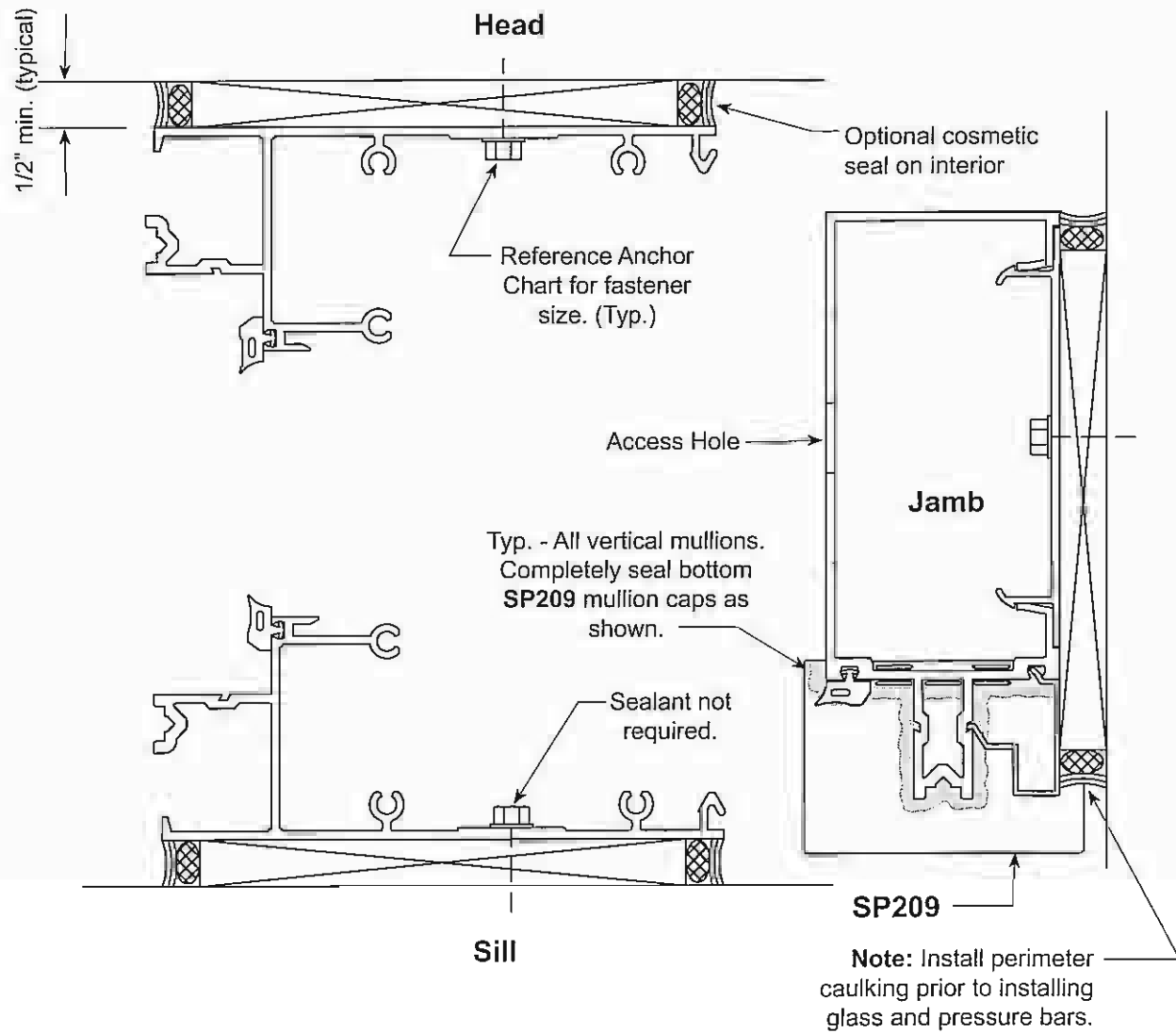
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Sheets **A1-14** (Installation Instructions) have been reviewed from a structural perspective only. The aluminum curtain wall framing members must be attached to the building structure as shown on **Sheets 1-35**.

Perimeter Sealant Locations

STEP 1. Once all frames are installed and the system has been anchored to the substrate, apply weather seal around the entire perimeter. See details below for the correct location of the perimeter sealant and backer rod. **Interior** cosmetic seal is optional.

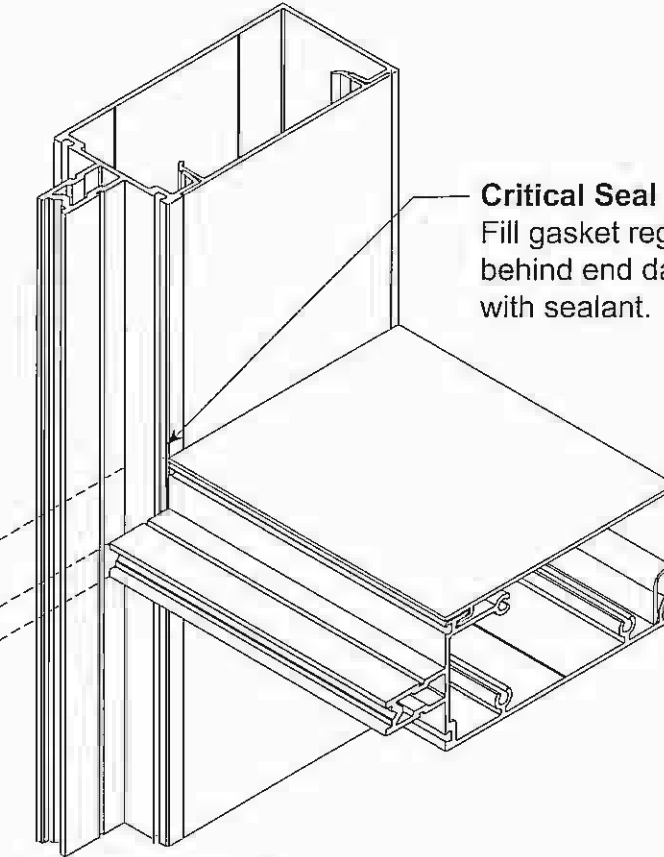


Critical Seal
 Apply sealant to all three contact surfaces prior to installation as shown.

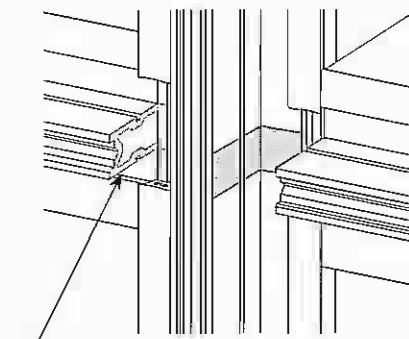
SP203 End Dam

End Dams

Critical Seal
 Fill gasket reglet behind end dam with sealant.

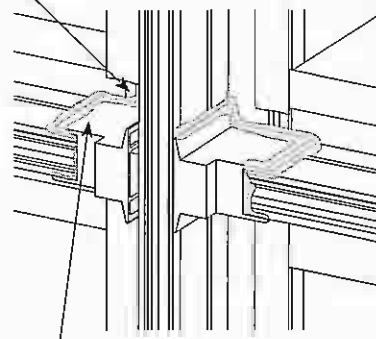


Force sealant into gasket reglet.



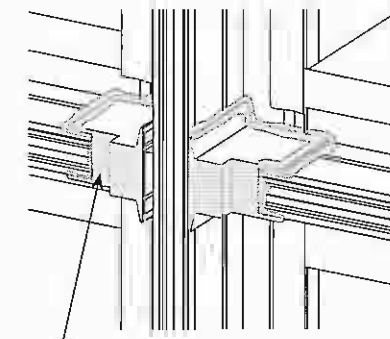
Seal along tongue of horizontal across face and tongue of mullion before installing SP203 end dams.

STEP 1



Tool sealant along top of end dam to form a water tight seal.

STEP 2



Apply sealant to face of end dam just prior to installing vertical pressure bar.

STEP 3

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FRAME INSTALLATION B.G. Frame Bridges

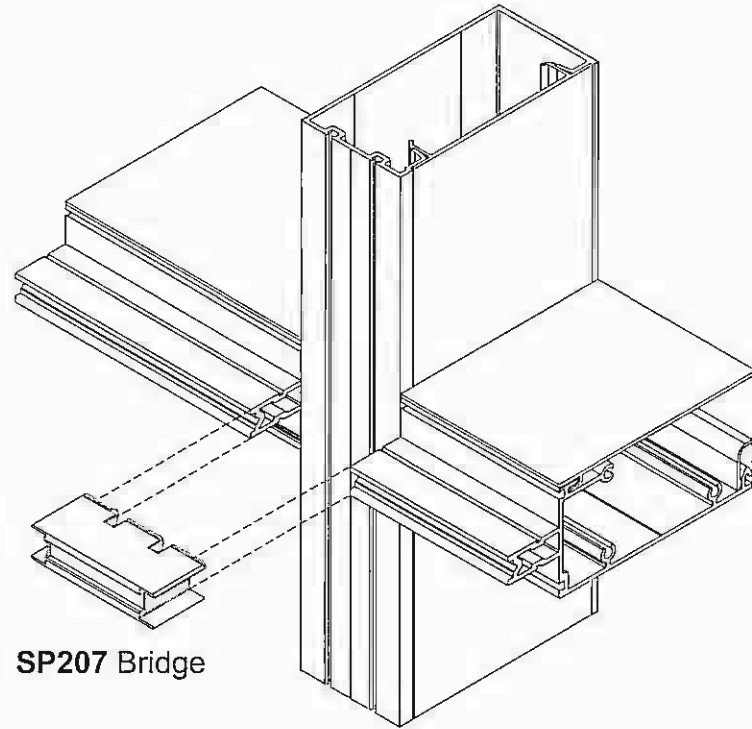
GLAZING Setting Block Installation

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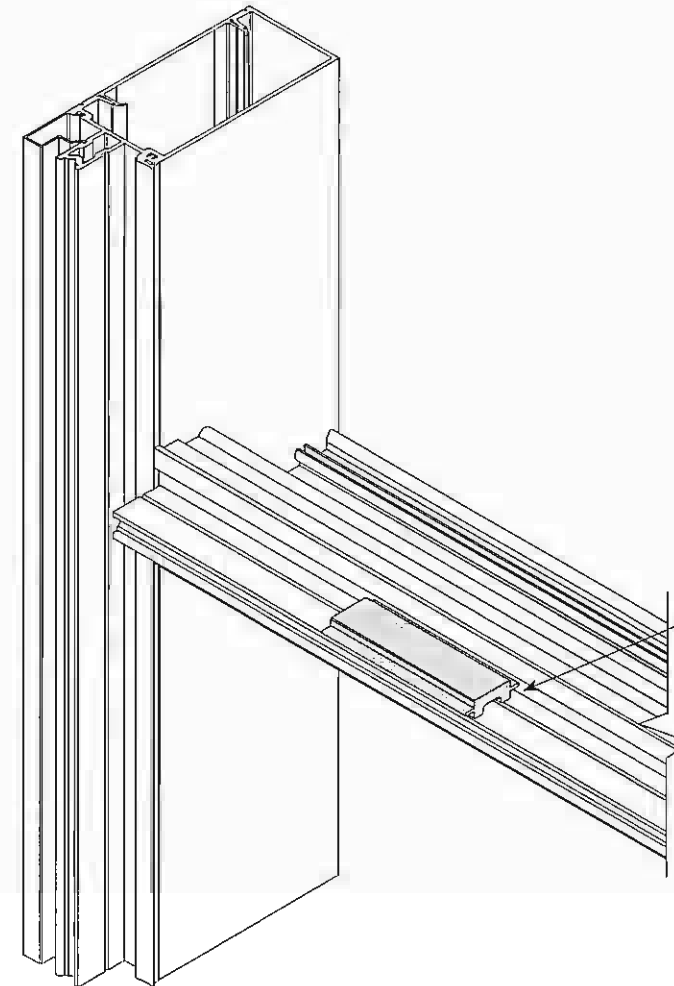
Sheets **A1-14** (Installation Instructions) have been reviewed from a structural perspective only. The aluminum curtain wall framing members must be attached to the building structure as shown on **Sheets 1-35**.

Critical Seal
 Apply sealant to all three contact surfaces prior to installation as shown.



SP207 Bridge

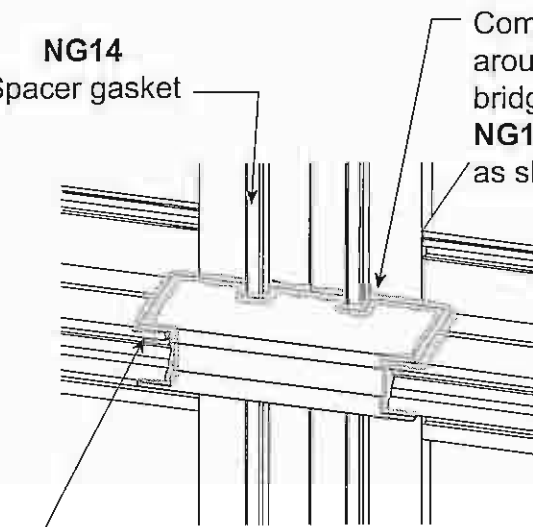
Locate two setting blocks on each sill and intermediate horizontal member as shown. Reference **Dead Load Charts** for this system in *Architectural Detail* (sheet **A18**) and/or shop drawings for correct location based on glass size.



SB251
 (4" Long)
 Setting Block
 (2 per lite)

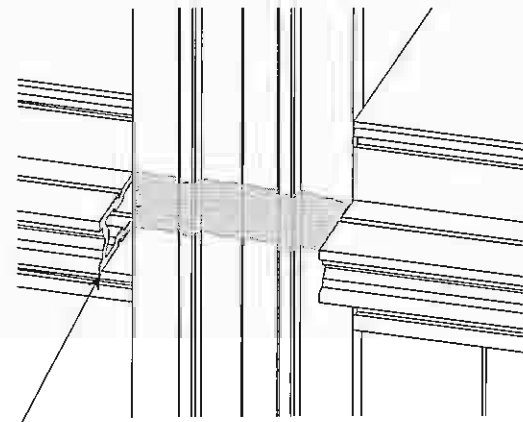
NG14
 Spacer gasket

Completely seal around **SP207** bridge and **NG14** gasket as shown.



Tool sealant along top and sides of bridge to form a water tight seal.

STEP 2.



Seal along tongue of horizontal and across face of mullion before installing **SP207** bridge.

STEP 1.

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GLAZING

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GLASS SIZE FORMULAS Captured and B.G. Mullions

Glass Sizes for Captured System:

Glass Width and Height = D.L.O. + 1"

Glass Sizes for Butt Glazed System: (See Detail A below)

Glass Height = D.L.O. + 1"

Glass Width (Butt Glaze on Both Sides) = D.L.O. + 2"

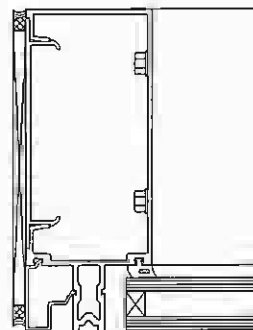
Glass Width (Butt Glaze on One Side and
 Captured on the Other Side) = D.L.O. + 1 1/2"

Glass Width at 90° Corner:

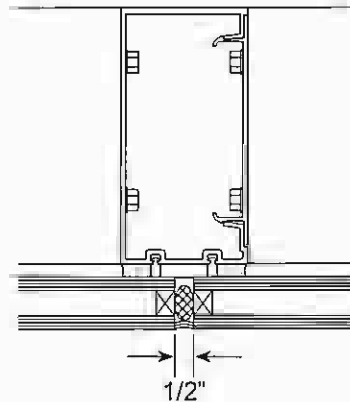
With Captured Intermediate Vertical = D.L.O. + 1"

With B.G. Intermediate Vertical = D.L.O. + 1-1/2"

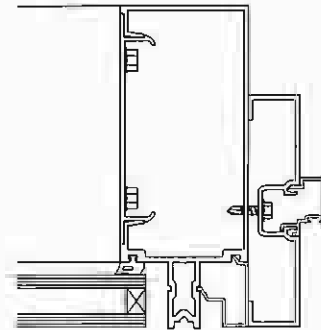
Note: Glass tolerances are not addressed in the above formulas. Consult the glass manufacturer for glass tolerances prior to ordering. Structural silicone must be applied from the interior and weatherseal from the exterior.



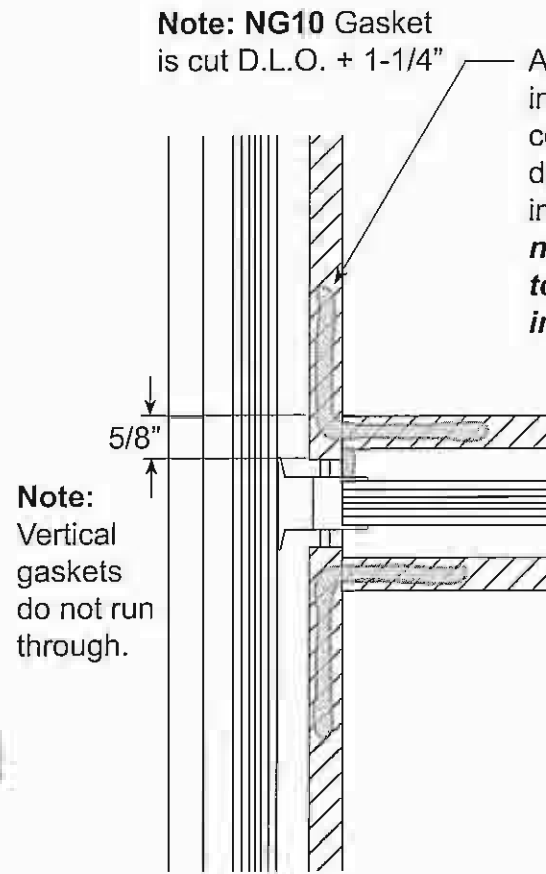
WALL
 JAMB



INTERMEDIATE
 B.G. VERTICAL

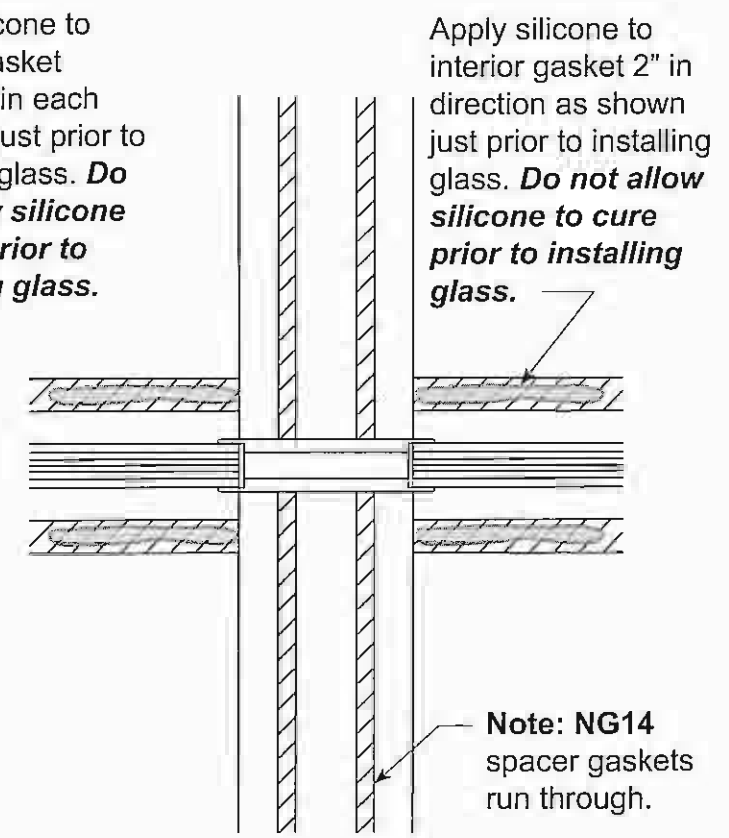


DOOR JAMB



Detail A
 Captured

Apply silicone to interior gasket corner 2" in each direction just prior to installing glass. **Do not allow silicone to cure prior to installing glass.**



Detail B
 B.G.

Note: NG14 spacer gaskets run through.

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GLAZING

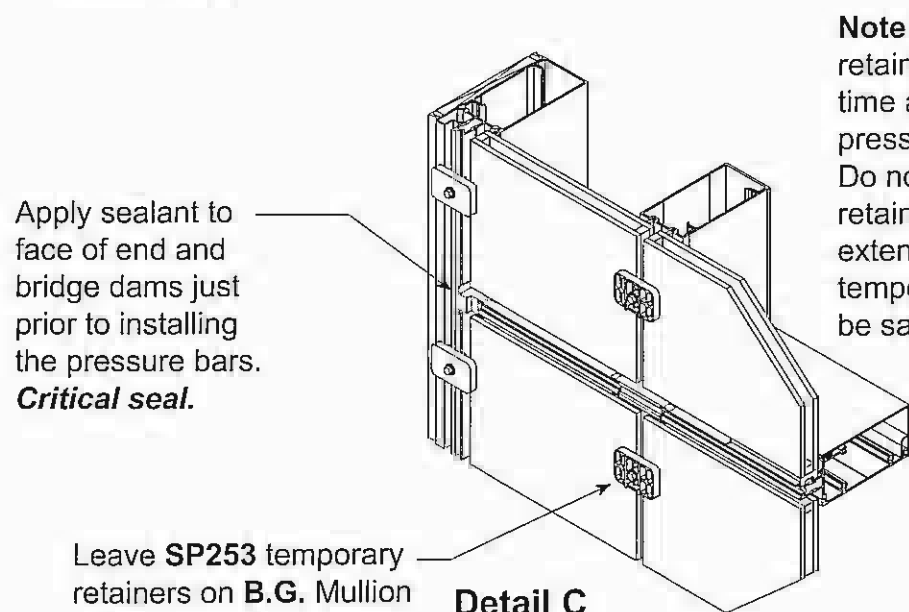
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2-21-07

Glass Installation

Step 1.

Install glass and center in opening. Retain glass with **SP253** temporary retainers. Retainers should remain in place until structural silicone has fully cured on B.G. Mullions.

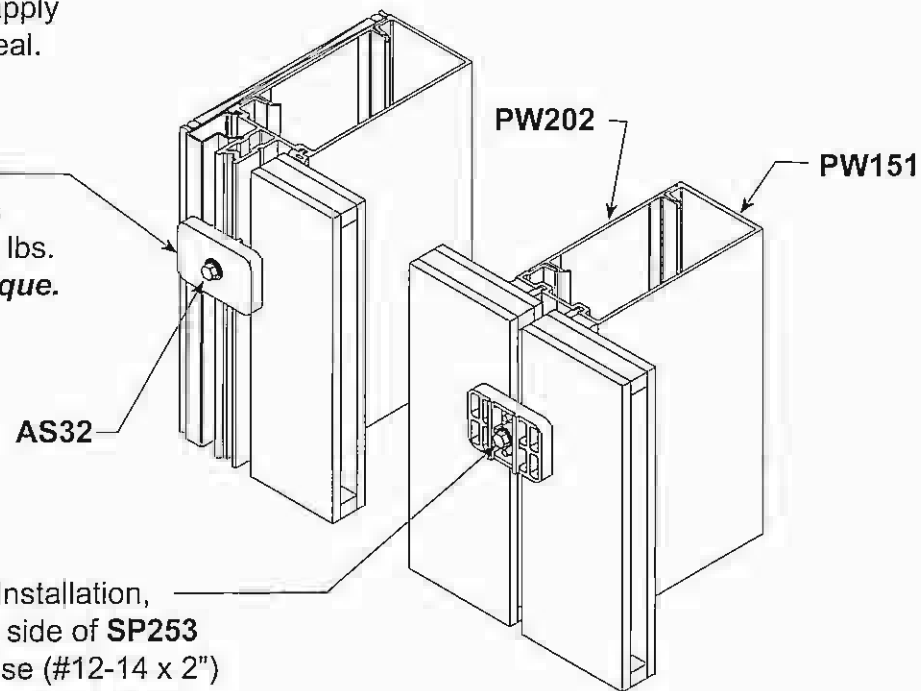


Note: Remove temporary retainers one mullion at a time and install **PW204-1** pressure bars. Do not rely on temporary retainers to hold glass for extended periods. **SP253** temporary retainers should be saved and reused.

Leave **SP253** temporary retainers on **B.G.** Mullion until silicone has cured. Then remove and apply exterior cosmetic seal.

Detail C

Torque **SP253** Temporary glass retainer to 30 in. lbs. **Do not over torque.**

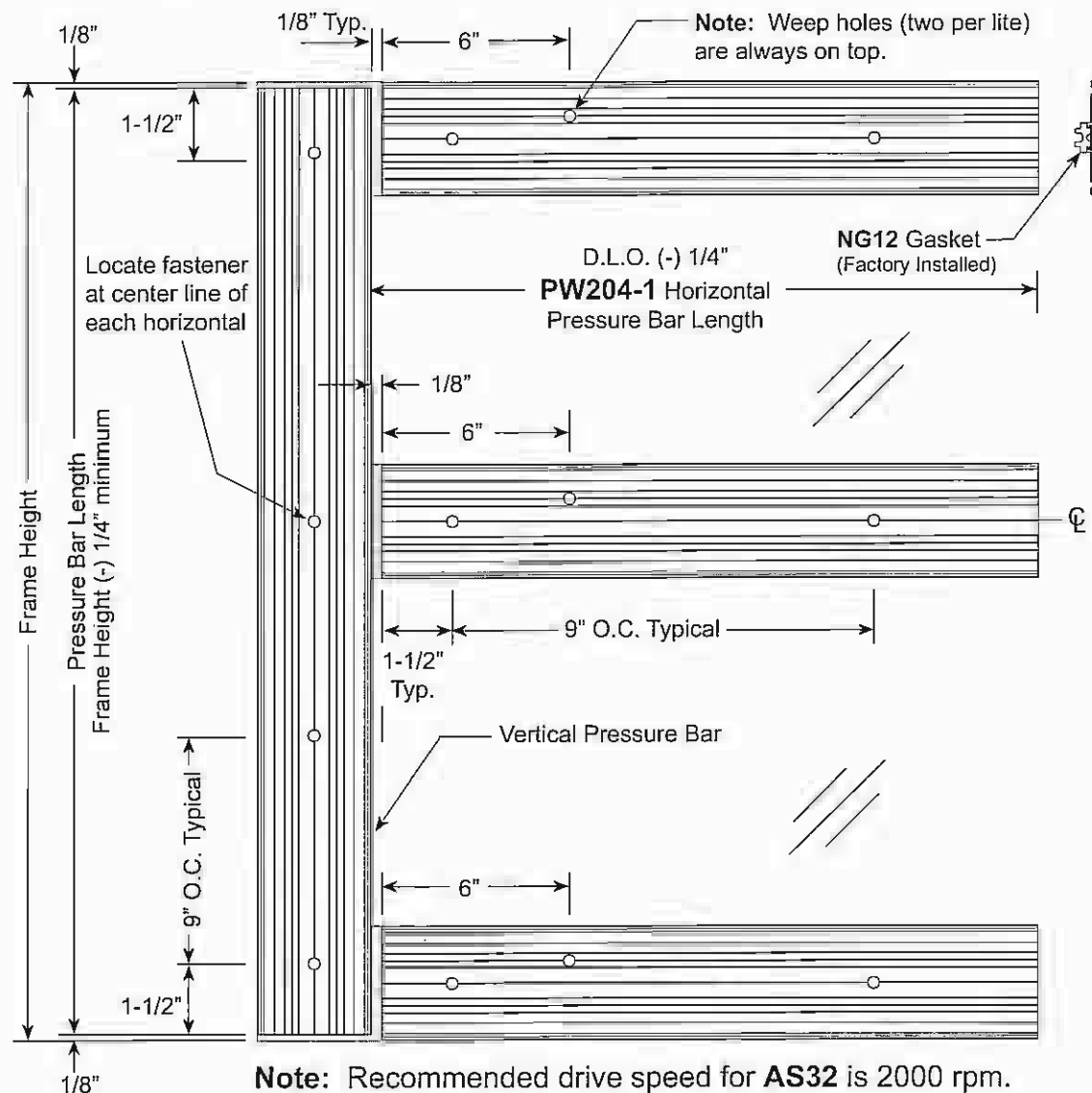


Note: For B.G. Installation, position smooth side of **SP253** against glass. Use (#12-14 x 2") self drill screw to attach **SP253** at B.G. Mullion. **Do not use these fasteners for attaching PW204 pressure bars.**

Detail D

Pressure Bar Installation - Captured

Install **AS32** vertical pressure bar fasteners from bottom to top and horizontal pressure bar fasteners from center outward. Make sure one fastener is located 1-1/2" maximum from vertical/horizontal joint intersections to ensure proper pressure over end dams. **While installing pressure bar fasteners, take care not to disengage NG12.**



Step 1. Attach vertical pressure bars leaving a 1/8" gap at top and bottom with **AS32** (#12 x 1-1/4") #3 self-drilling fasteners. Using electrically powered hand held drill/driver, torque **AS32** fasteners to 85-90 in. lbs. If using battery power tools, it is recommended that installer frequently check for accurate torque settings, as battery power will diminish over time.

Step 2. Center horizontal pressure bars in opening leaving a 1/8" gap at each end and attach.

Step 3. Seal gaps at vertical/horizontal intersections and at top and bottom of vertical pressure bars.

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PRESSURE BAR INSTALLATION

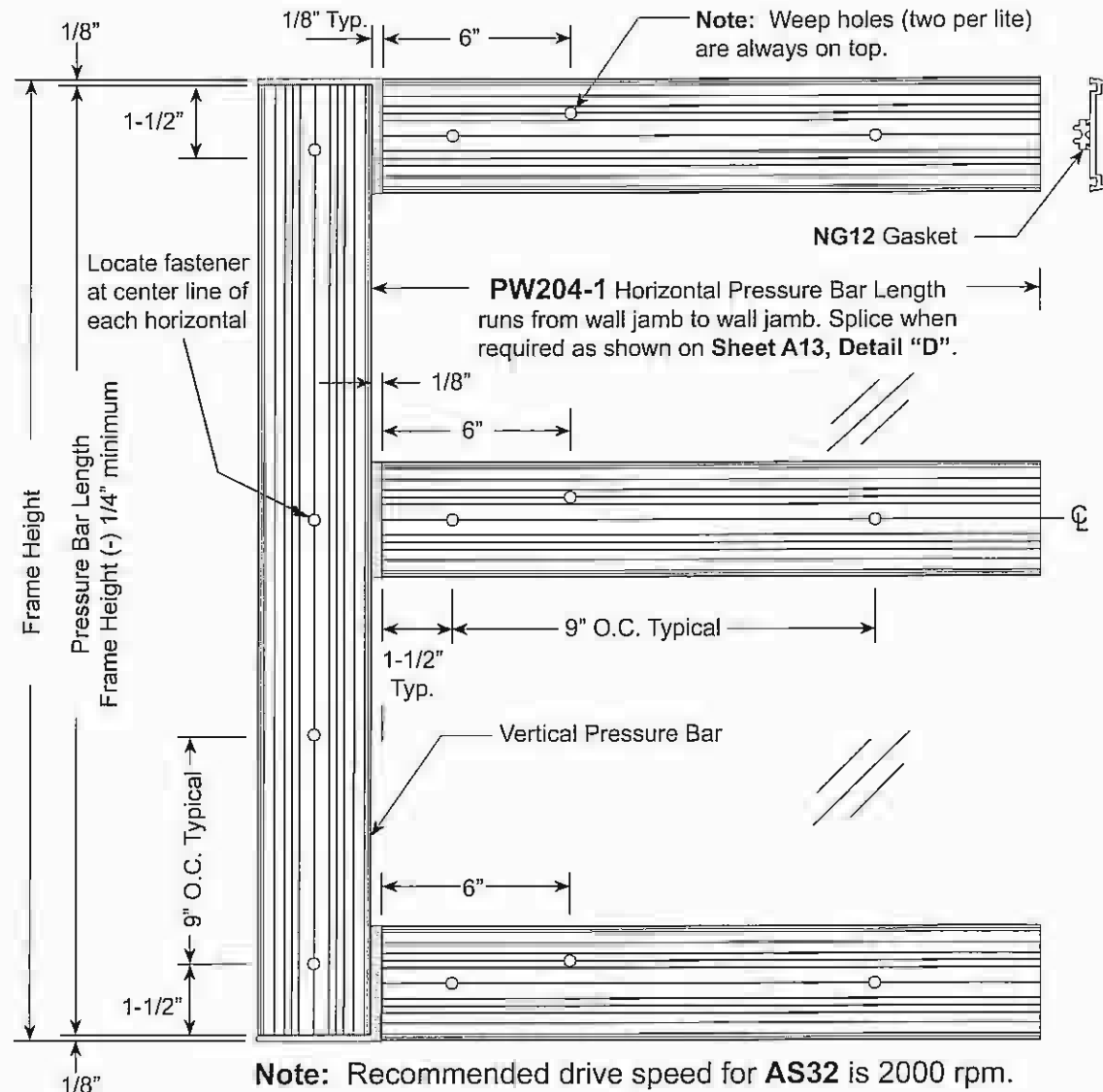
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Pressure Bar Installation - B.G.

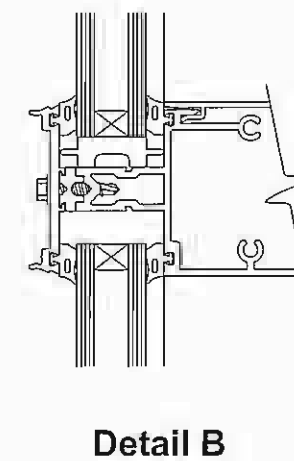
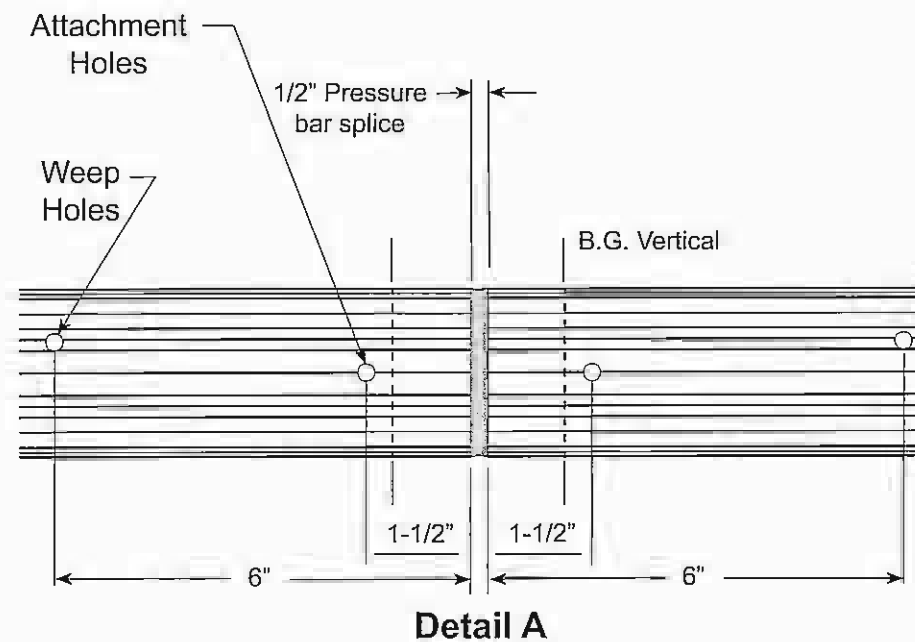
At B.G. Mullions

Install **AS32** vertical pressure bar fasteners from bottom to top and horizontal pressure bar fasteners from center outward. Make sure one fastener is located 1-1/2" maximum from vertical/horizontal joint intersections to ensure proper pressure over end dams. **While installing pressure bar fasteners, take care not to disengage NG12 pressure bar spacer.**

1. Remove temporary retainers one vertical at a time and install pressure bars using **AS32** (#12 x 1-3/4") #3 self-drilling fasteners and a cordless adjustable clutch driver/drill with a 3/8" driver. Torque fasteners to 85-90 inch pounds. Periodically check the torque setting on the adjustable clutch driver/drill. **Note:** Recommended drive speed for **AS32** is 2000 rpm.



2. Install wall jamb pressure bar fasteners from bottom to top and horizontals from center outward. Locate **AS32** fasteners 1-1/2" maximum from vertical/horizontal intersections to ensure proper pressure over end and bridge dams.
3. Remove temporary retainers from horizontals, one bay at a time, and center horizontal pressure bars in opening leaving 1/8" gaps at ends and 1/2" at splice joints. Attach with **AS32** fasteners.
4. Upon completion of pressure bars installation and just prior to installing face covers, seal all gaps at intersection of vertical/horizontal pressure bar joints and tool the sealant.
5. Seal between pressure bar & face cover splices. Keep sealant away from face cover snap area.



- Step 1.** Remove temporary retainers one mullion at a time. Attach vertical pressure bars leaving a 1/8" gap at top and bottom with **AS32** (#12 x 1-1/4") #3 self-drilling fasteners). Using an electrically powered hand held drill/driver, torque **AS32** fasteners to 85-90 in. lbs. If using battery power tools, it is recommended that installer frequently check for accurate torque settings, as battery power will diminish over time.
- Step 2.** Center horizontal pressure bars in opening leaving a 1/8" gap at each end and attach.
- Step 3.** Seal gaps at vertical/horizontal intersections and at top and bottom of vertical pressure bars.

Pressure bar splicing & sealing at B.G. Mullions
(Intermediate Horizontal shown; Head & Sill similar)

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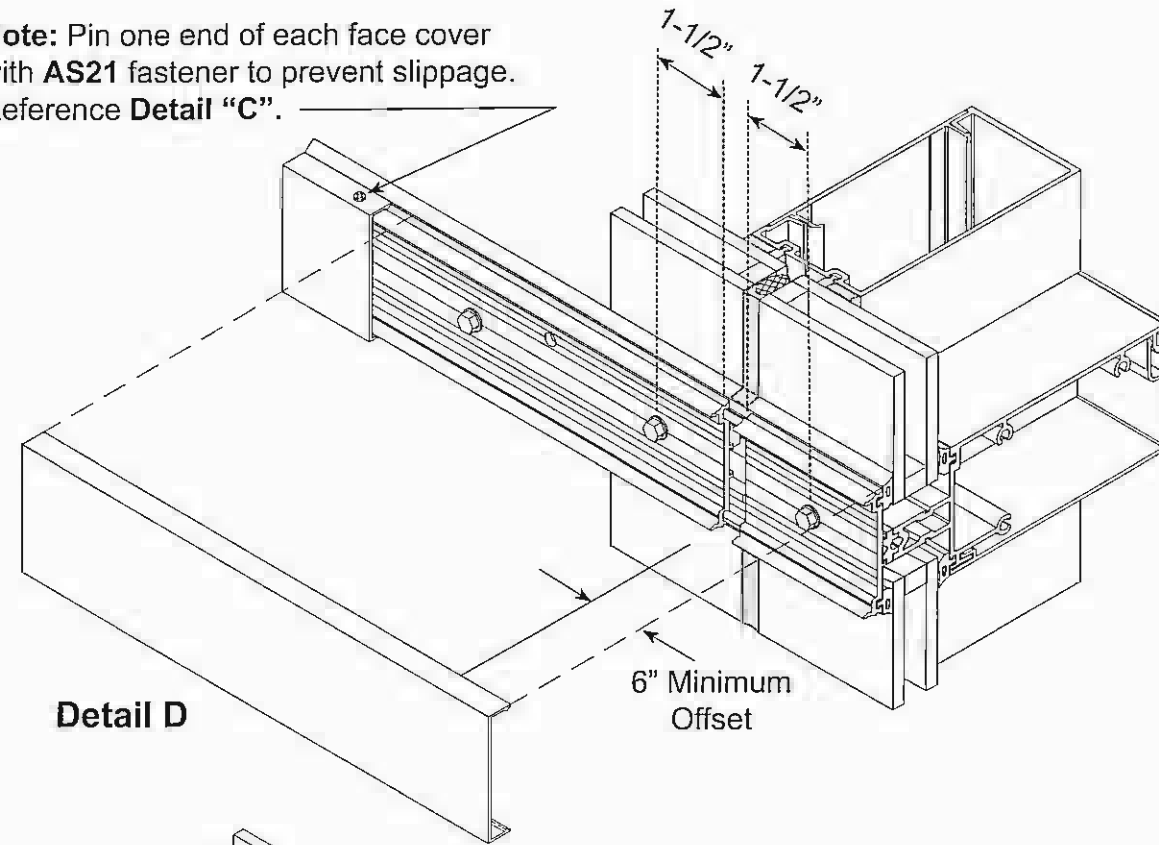
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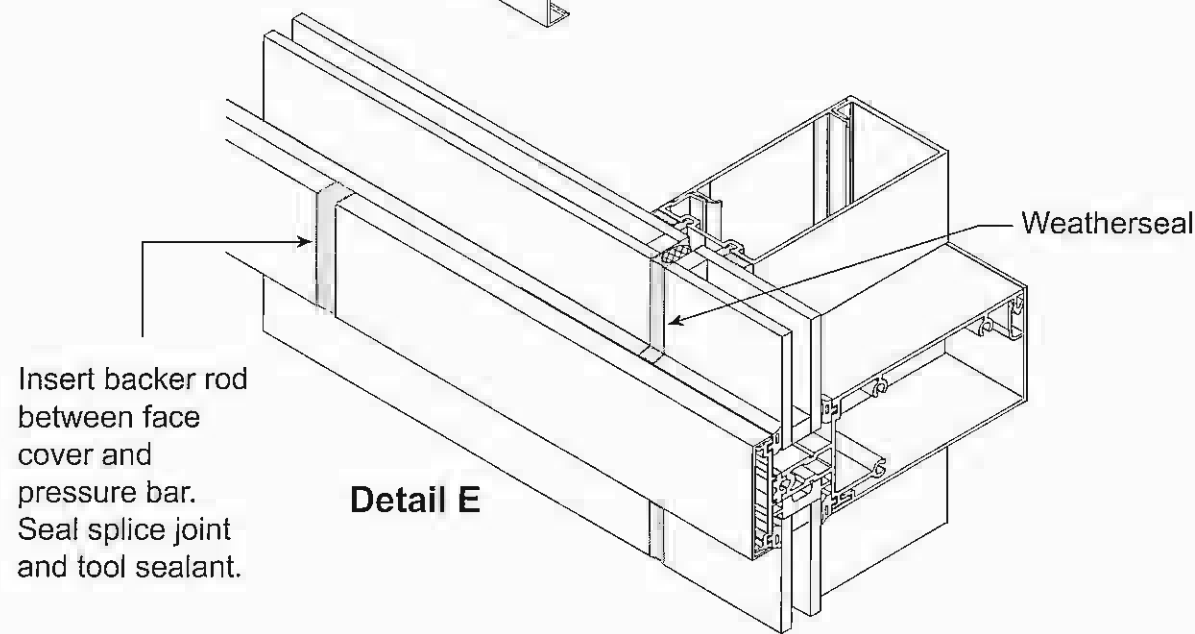
HORIZONTAL FACE COVER Splice Joints - B.G. Installation

1. Locate 1/2" wide splice joints at center line of vertical members.
2. Do not align face cover splices directly over pressure bar splices. Offset 6" minimum, see Detail "D".
3. Set backer rod between face cover and pressure bars at joint and seal. Tool sealant, see Detail "E".

Note: Pin one end of each face cover with AS21 fastener to prevent slippage. Reference Detail "C".



Detail D

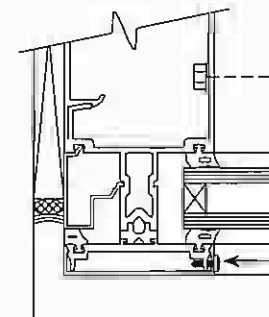


Detail E

Insert backer rod between face cover and pressure bar. Seal splice joint and tool sealant.

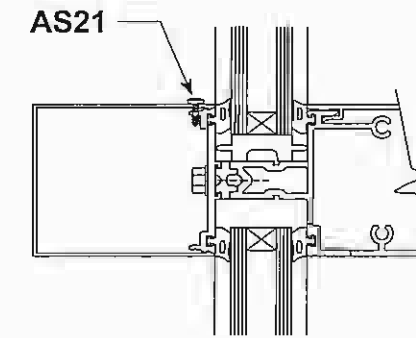
FACE COVER INSTALLATION

1. Care must be taken to prevent damage of face covers during installation. Use a piece of wood such as 2" x 4" approximately 8-10" long and a 3" diameter Stanley 3 lb. Compo-Cast dead blow soft face hammer.
2. Install vertical face covers first. Do not displace top and bottom mullion caps when installing face covers. Pinning of vertical face cover is required to prevent slippage. Use one AS21 on each side per cut length, concealed behind horizontal face cover as shown. See Detail B.
3. Install snap-in horizontal face covers with the weep holes located on the bottom side.
4. Horizontal face covers exceeding 1-1/2" in depth must be pinned on top side with AS21 fastener to prevent disengagement. Locate one fastener at mid-point for 3-5 ft.



Detail B

AS21 (#6 x 3/8" PPH Type AB pt.)

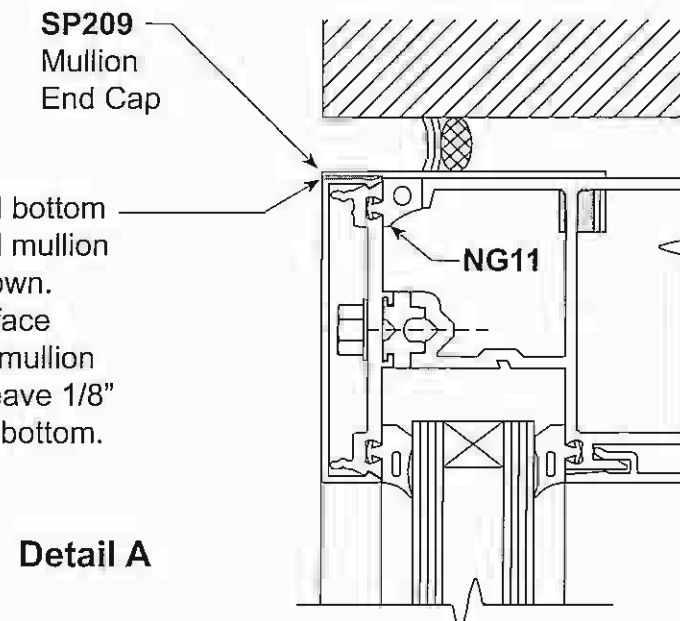


Detail C

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SEALING MULLION END CAPS Top and Bottom (Top Shown - Bottom Similar)

1. Seal top and bottom of each vertical mullion end cap as shown.
- Note:** Vertical face covers are cut mullion length -1/4". Leave 1/8" gap at top and bottom.



Detail A

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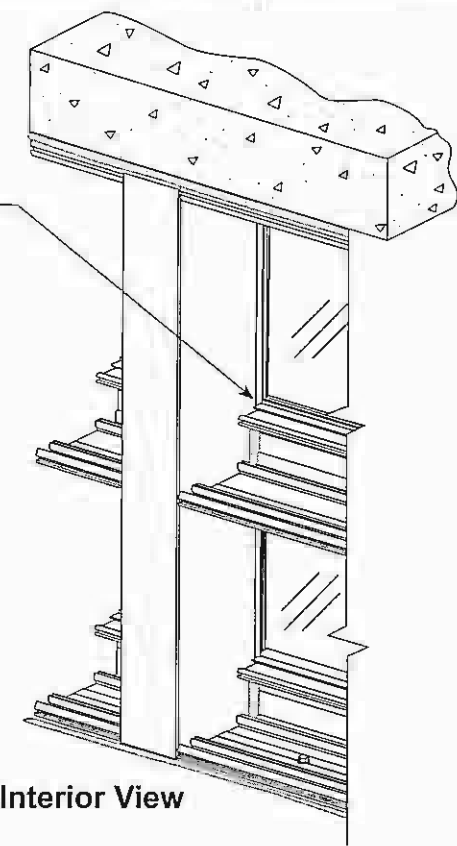
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INTERIOR TRIM INSTALLATION

Checking Joinery Seals and Anchor Bolts

Step 1. Check seals at all vertical/horizontal joints and reseal if required.

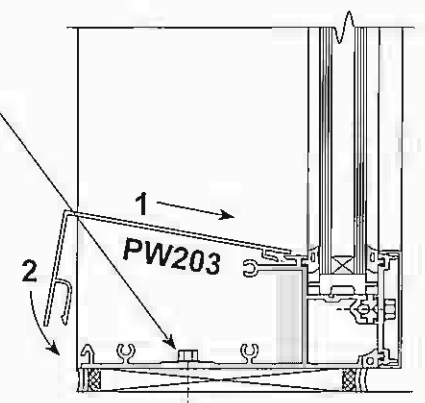


Note: Interior trim covers may be omitted in spandrel areas when not visible from interior.

Detail A

Step 3. Insert **PW203** interior trim cover into receiver and snap downward into place. Use dead blow mallet and wooden block as required. Take care not to ding or bend cover.

Step 2. Check all perimeter anchor bolts to make sure they are installed and secure.

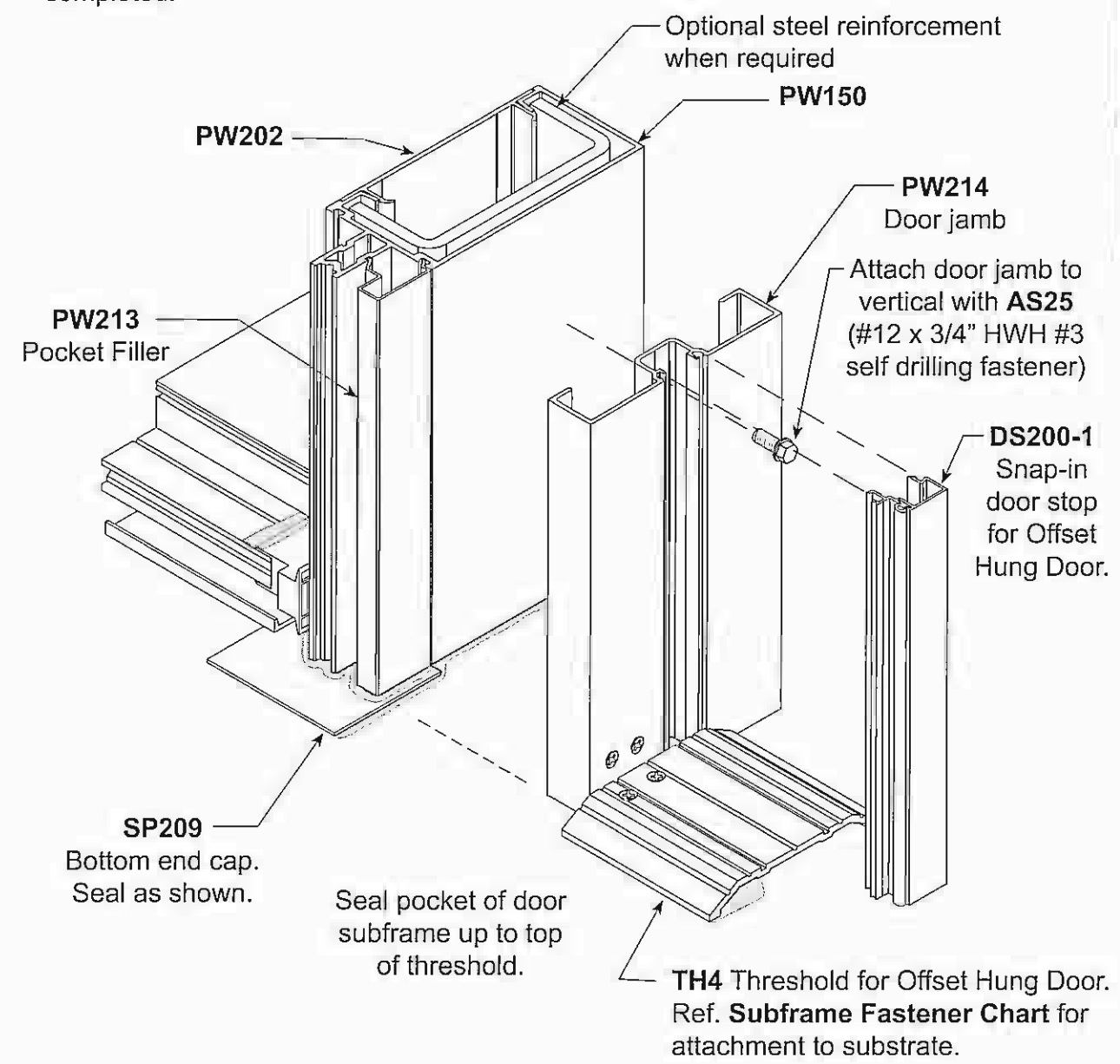


Sill shown, head and horizontal similar.

Detail B

ENTRANCE SUBFRAMES

Note: Refer to **FRAMES & ENTRANCES** section of this manual for additional fabrication and installation instructions. Entrance Frames may be installed simultaneously with Curtain Wall or after Curtain Wall installation has been completed.



Offset Hung Door

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