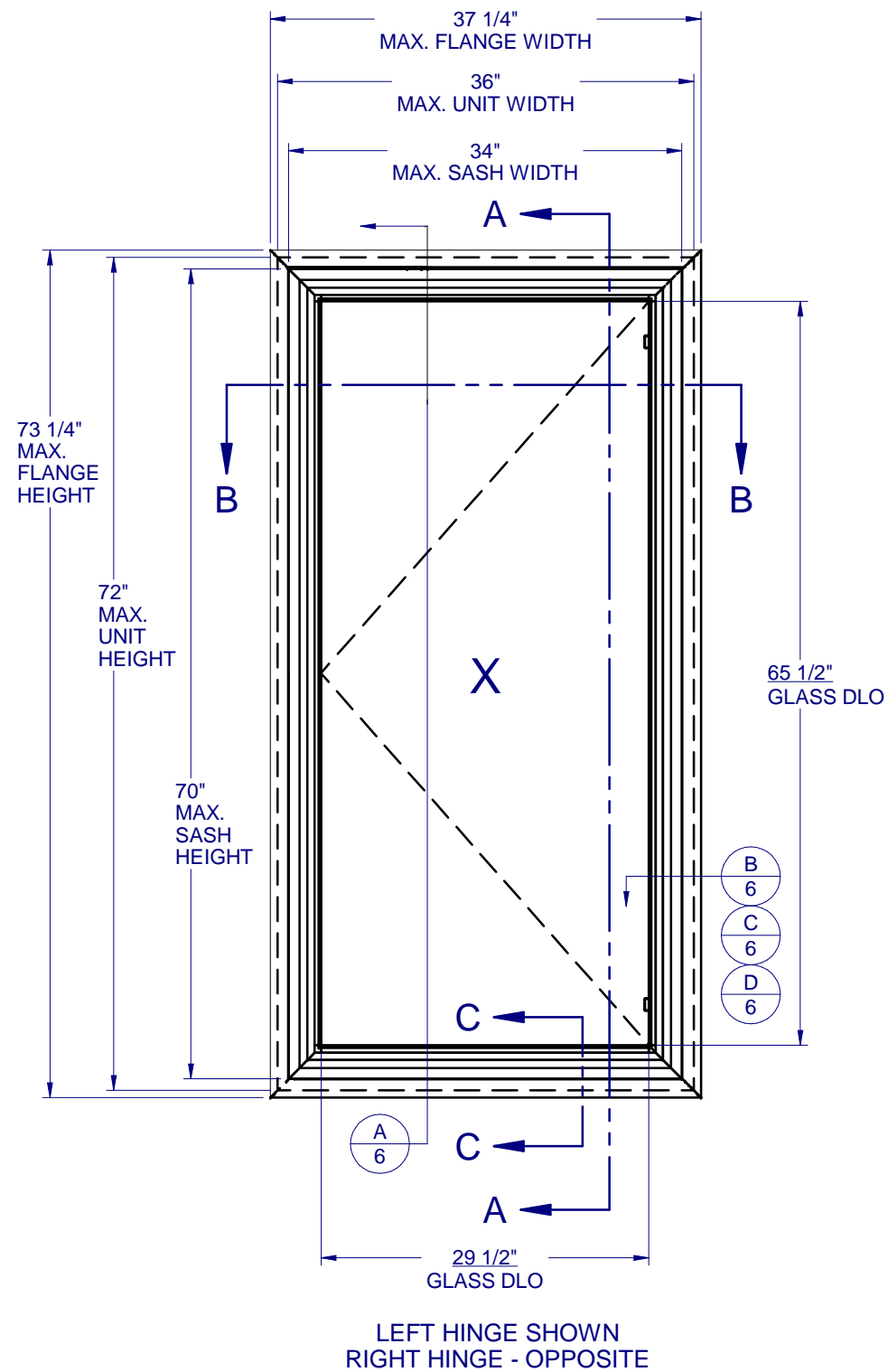


# CASEMENT - NON-IMPACT



## GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE FLORIDA BUILDING CODE (FBC), CURRENT EDITION.
2. GLAZING OPTIONS: (SEE SHEET 2)
3. CONFIGURATIONS: "X". ALL WINDOWS OPEN TO OUTSIDE - LEFT OR RIGHT.
4. DESIGN PRESSURE RATING (SEE SHEET 2):  
-NEGATIVE DESIGN LOADS BASED ON, TESTED PRESSURE AND GLASS TABLES ASTM E-1300-04e01/09.  
-POSITIVE DESIGN LOADS BASED ON, TESTED PRESSURE, WATER INFILTRATION TEST PRESSURE AND GLASS TABLES ASTM E-1300-04e01/09.
5. ANCHORAGE: THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. SEE SHEET 6 FOR ANCHOR DETAILS. WINDLOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
6. NOT APPROVED FOR IMPACT RESISTANCE. IMPACT PROTECTIVE SYSTEM IS REQUIRED IN WIND BORNE DEBRIS REGION.
7. ALL FRAMES AND VENTS FULLY WELDED.
8. SERIES / MODEL DESIGNATION CA-8400.
9. THE DESIGNATION X AND O STAND FOR THE FOLLOWING:  
X = OPERABLE SASH

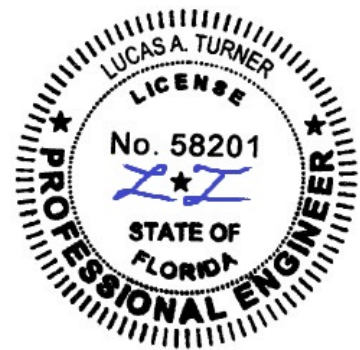
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**WINDOW SYSTEMS**

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## 8400 PVC CASEMENT NON-IMPACT

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8/05/2020

LUCAS A. TURNER, P.E.  
FL PE # 58201  
2428 Old Natchez Trc Trl  
Camden, TN 38320  
PH. 941-380-1574

SHEET DESCRIPTION:

## GENERAL NOTES AND ELEVATIONS

DRAWN BY: ADE	DATE: 07/27/07
DWG #: CWS-160	REV.: F
SCALE: 1:15	SHEET 1 OF 6

## TABLE OF CONTENTS

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GLAZING DETAILS & DP CHART.....	2
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BOM & EXTRUSIONS.....	4
ANCHOR SCHEDULE & NOTES.....	5
INSTALLATION DETAILS.....	6

MAX. UNIT SIZE	DESIGN PRESSURE RATING	IMPACT RATING
36" x 72"	SEE COMPARATIVE ANALYSIS CHART, SHEET 2	NONE

DESIGN PRESSURES (PSF) FOR "X" CONFIGURATION

Unit	Glass	Unit Height (in.)									
		18	24	30	36	42	48	54	60	66	72
18	A	+70.0 / -97.5	+70.0 / -97.5	+70.0 / -97.5	+70.0 / -97.5	+70.0 / -97.5	+70.0 / -97.5	+70.0 / -97.5	+70.0 / -97.5	+70.0 / -97.5	+70.0 / -97.5
	B, C, D	+70.0 / -97.5	+70.0 / -97.5	+70.0 / -97.5	+70.0 / -97.5	+70.0 / -97.5	+70.0 / -97.5	+70.0 / -97.5	+70.0 / -97.5	+70.0 / -97.5	+70.0 / -97.5
24	A	+70.0 / -97.5	+70.0 / -97.5	+70.0 / -97.5	+70.0 / -97.5	+70.0 / -97.5	+70.0 / -92.9	+70.0 / -81.9	+70.0 / -74.2	+70.0 / -70.0	+66.5 / -66.5
	B, C, D	+70.0 / -97.5	+70.0 / -97.5	+70.0 / -97.5	+70.0 / -97.5	+70.0 / -97.5	+70.0 / -97.5	+70.0 / -97.5	+70.0 / -97.5	+70.0 / -97.5	+70.0 / -87.8
30	A	+70.0 / -97.5	+70.0 / -97.5	+70.0 / -93.6	+70.0 / -93.6	+70.0 / -93.6	+70.0 / -88.7	+70.0 / -74.6			
	B, C, D	+70.0 / -97.5	+70.0 / -97.5	+70.0 / -93.6	+70.0 / -93.6	+70.0 / -93.6	+70.0 / -93.6	+70.0 / -93.6	+70.0 / -93.6	+70.0 / -82.6	+70.0 / -73.9
36	A	+70.0 / -86.7	+70.0 / -73.1	+66.9 / -66.9	+65.0 / -65.0	+65.0 / -65.0	+65.0 / -65.0	+65.0 / -65.0			
	B, C, D	+70.0 / -86.7	+70.0 / -73.1	+66.9 / -66.9	+65.0 / -65.0	+65.0 / -65.0	+65.0 / -65.0	+65.0 / -65.0	+65.0 / -65.0	+65.0 / -65.0	+65.0 / -65.0

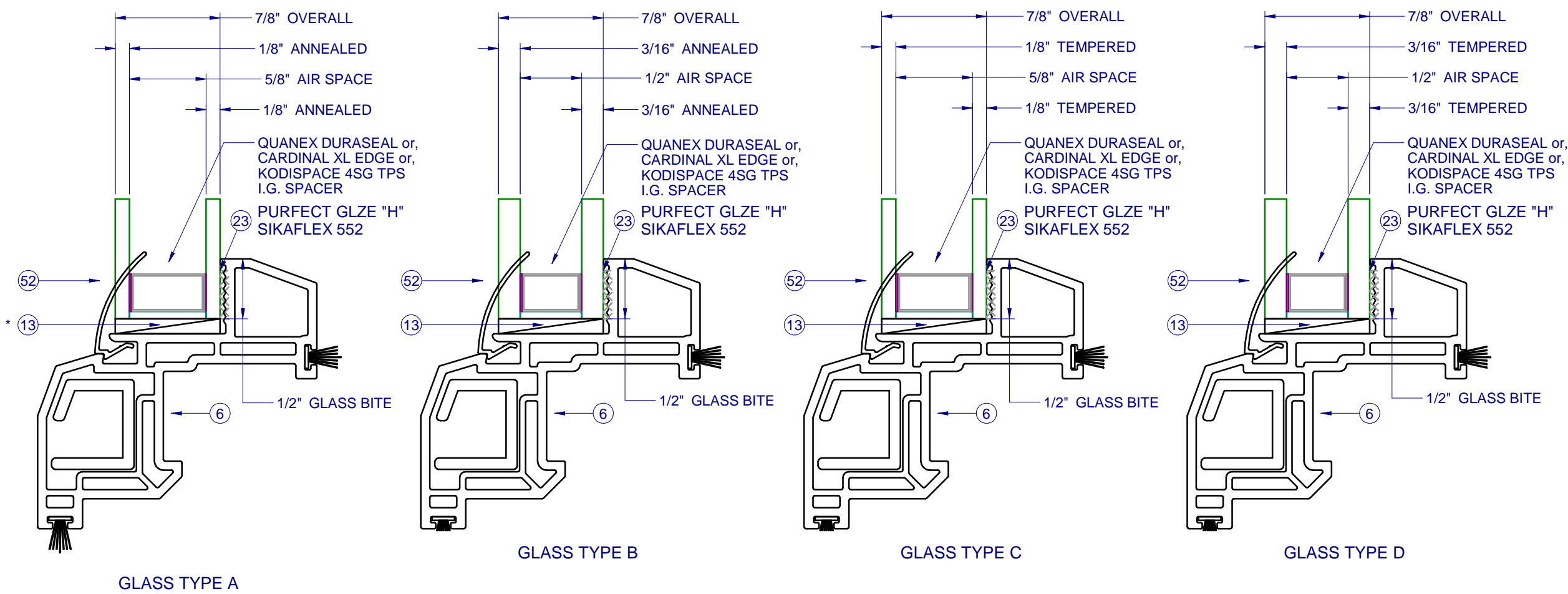
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**8400 PVC  
CASEMENT  
NON-IMPACT**

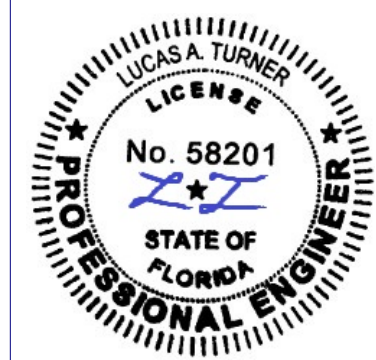
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NOTES:  
1. IF SIZE INTENDED IS NOT SHOWN, USE NEXT LARGER SIZE.  
2. SHADED SIZES ARE NOT ALLOWED FOR THAT GLASS TYPE.

\* SETTING BLOCKS PER FBC 2411.3.3.1



8/05/2020

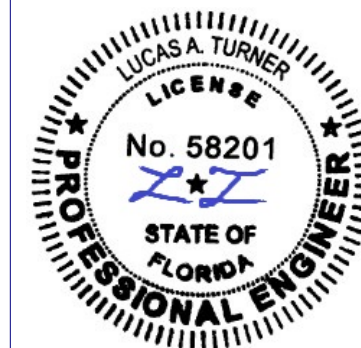
LUCAS A. TURNER, P.E.  
FL PE # 58201  
2428 Old Natchez Trc Trl  
Camden, TN 38320  
PH. 941-380-1574

SHEET DESCRIPTION:  
**COMPARATIVE ANALYSIS  
AND GLAZING DETAILS**

DRAWN BY: ADE	DATE: 07/27/07
DWG #: CWS-160	REV.: F
SCALE: 1:1	SHEET 2 OF 6

**8400 PVC  
CASEMENT  
NON-IMPACT**

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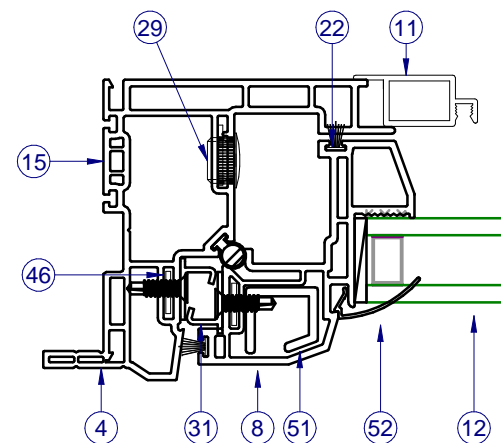
LUCAS A. TURNER, P.E.  
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SHEET DESCRIPTION:

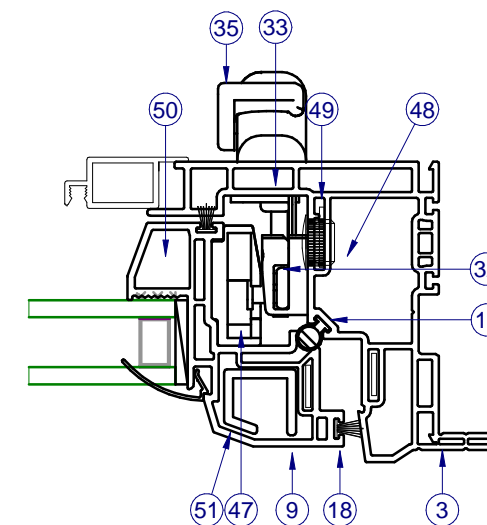
**SECTION VIEWS**

DRAWN BY: <b>ADE</b>	DATE: <b>07/27/07</b>
DWG #: <b>CWS-160</b>	REV.: <b>F</b>
SCALE: <b>1:2</b>	<b>SHEET 3 OF 6</b>

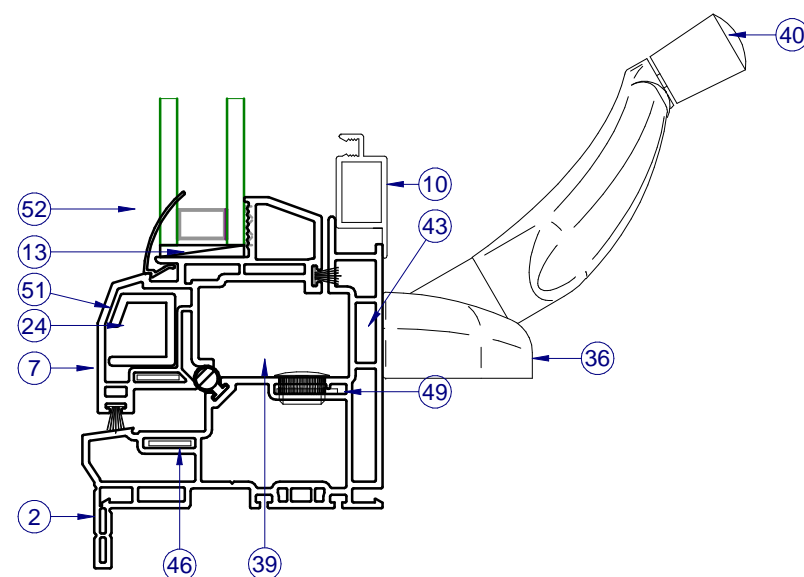
INTERIOR



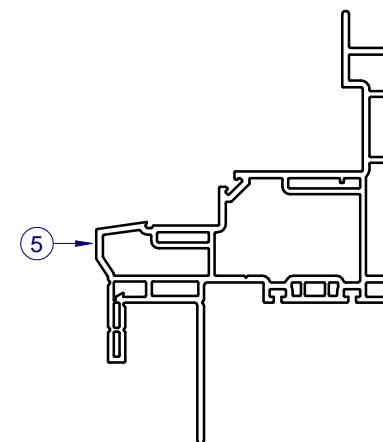
SECTION VIEW B-B



INTERIOR



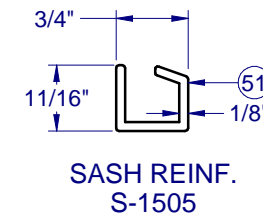
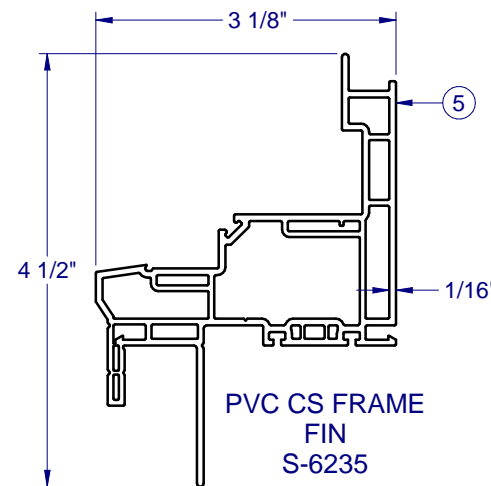
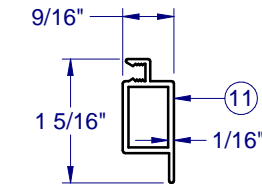
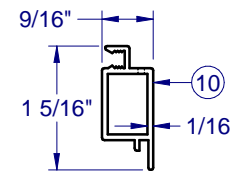
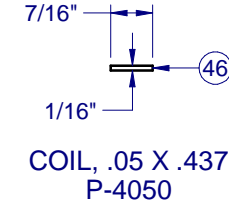
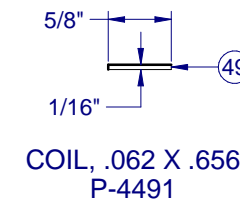
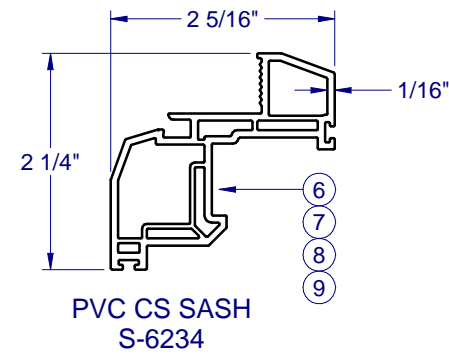
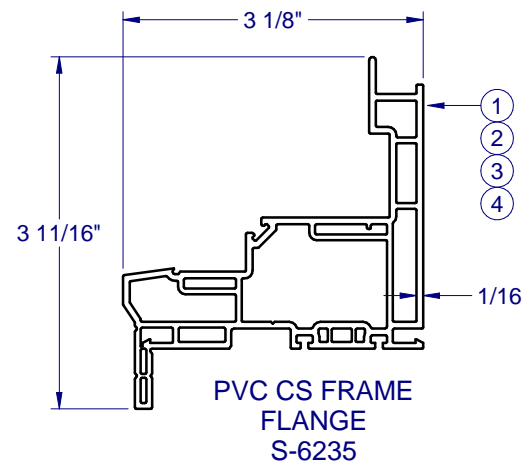
SECTION VIEW A-A



SECTION VIEW C-C  
ALTERNATE FIN FRAME

ITEMS NOT SHOWN FOR CLARITY:  
14, 16-17, 19-20, 25, 27, 32, 34, 37-38, 42, 44-45, 50

PARTS LIST			
ITEM	PART #	DESCRIPTION	MATERIAL
1	H-6235	FR., CASE., MAIN, HEAD	PVC
2	H-6235	FR., CASE., MAIN, SILL	PVC
3	H-6235	FR., CASE., MAIN, JB., RIGHT	PVC
4	H-6235	FR., CASE., MAIN, JB., LEFT	PVC
5	H-6235	FR., CASE., W/ FIN	PVC
6	H-6234	SASH, CASE., TOP RAIL	PVC
7	H-6234	SASH, CASE., BOT. RAIL	PVC
8	H-6234	SASH, CASE., SIDE RAIL, HINGE	PVC
9	H-6234	SASH, CASE., SIDE RAIL, LOCK	PVC
10	H-1592	SCREEN RAIL, SIDE/BTM	ALUM
11	H-1593	SCREEN RAIL, TOP/SIDE	ALUM
12	GLASS	SEE SHEET 2	
13	P-5615	SET. BLK., 85 DUR., 1/8" X 1" X 2" LG.	RUBBER
14	P-3029	SCREEN LIFT-OUT	
16	P-3195	SCREEN SPRING, NO HOLE TENSION	
17	P-3197	SCREEN CORNER KEY	NYLON
18	P-5573	WSTP., BULB, HOLLOW, T-SLOT, .187 X .358	RUBBER
19	P-3228	SCREEN SPLINE, .155 DIA, BLK	
20		SPACER, SEE SHEET 3	
21	P-3342	SEAM SEALER, SM-5504	SILICONE
22	P-3429	WSTP., .270 X .187 BACK, ULTRA FIN, BLACK, SASH	
23		PURFECT GLAZE "H", SIKAFLEX 552	
24	P-3539	#8 X 3/4" QUAD PH TEK, ZINC, SCREW	
25	P-3581	SCREEN CLOTH, 18 X 16 FIBERGLASS	
26	P-3587	#8 X 1" PH FH TEK 2, SS, SCREW	SS
27	P-3613	CWS LBL. (LOGO)	
28	P-3685	CS-8400 GOLD CERT. LABEL, NFRC TAB	
29	P-5588	CAP PLUG, 1/2" HOLE	NYLON
30	P-3881	TEMPORARY LBL. (NFRC/DP)	
31	P-3940	SNUBBER, SS, PVC	
32	P-4003	TIE BAR GUIDE, ROTO. HDWE.	SS
33	P-4004	#8-32 X 1/2" PH PH, MS, SS (ROTO HDWE. LOCK)	SS
34	P-4005	SUPPORT PLATE, LOCK, SS, ROTO HDWE. (Use w/ P-4006)	SS
35	P-4006	LOCK, MULTI-POINT, ROTO HDWE., WHITE	SS
36	P-4007	ROTO. OPERATORS (FOR LEFT/RIGHT OPEN CASEMENT)	SS
37	P-4009	TRACK & SLIDER ASSM., ROTO OPER., ROTO HDWE., (13")	SS
38	P-4010	STUD BRKT., ROTO OPER., L.H., ROTO HDWE.	SS
39	P-4012	SHIM, ROTO OPERATOR, ROTO HDWE. (4.8mm)	NYLON
40	P-4503	HANDLE, STD, ROTO OPER, ROTO HDWE. (WHITE)	ZINC
41	P-4018	HINGES (LEFT/RIGHT FOR LEFT OR RIGHT OPEN CASEMENT)	SS
42	P-4020	SUPPORT WASHER, ROTO OPER, ROTO HDWE. (SS)	SS
43	P-4021	#8-32 x 3/4" Quad FH W/ 1/16" Lead, MS, SS, ROTO OP., ROTO	SS
44	P-4024	GASKET, ROTO OPER., ROTO HDWE., 1/16"	
45	P-4031-P-4040	TIE-BARS, ROTO HDWE. 1-5 LOCKPOINTS, SS (BY OA HGT.)	SS
46	P-4050	REINF. COIL-ALUMINUM, 5052-H32 (.050 X .437), HD	ALUM
47	P-4043	STRIKE, MULTIPPOINT	NYLON
48	P-4146	#8 x 3/4" PH FLAT TEK, SS	SS
49	P-4491	REINF. COIL-ALUMINUM, 5052-H32 (.062 X .656), HD	ALUM
50	P-4641	#8 x 5/8" PH FLAT TEK, #7 HEAD, SS	SS
51	S-1505	REINF. CASE. SASH	ALUM
52	S-6237	GLZ. BD.,	PVC



**FRAME AND SASH CORNER CONSTRUCTION**

CORNER WELD (ALL SIDES) 1:8

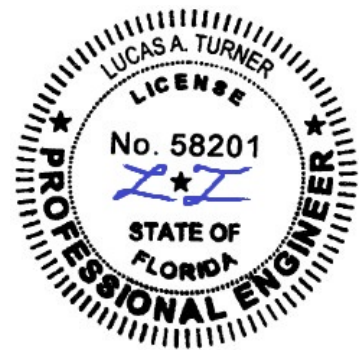
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**8400 PVC CASEMENT NON-IMPACT**

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SHEET DESCRIPTION:

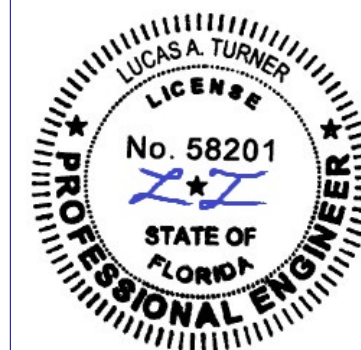
**BOM AND EXTRUSIONS**

DRAWN BY: <b>ADE</b>	DATE: <b>07/27/07</b>
DWG #: <b>CWS-160</b>	REV.: <b>F</b>
SCALE: <b>1:2</b>	SHEET <b>4 OF 6</b>

NOTE: ALL ALUMINUM EXTRUSIONS ARE 6063-T6 UNLESS OTHERWISE NOTED.

**8400 PVC  
CASEMENT  
NON-IMPACT**

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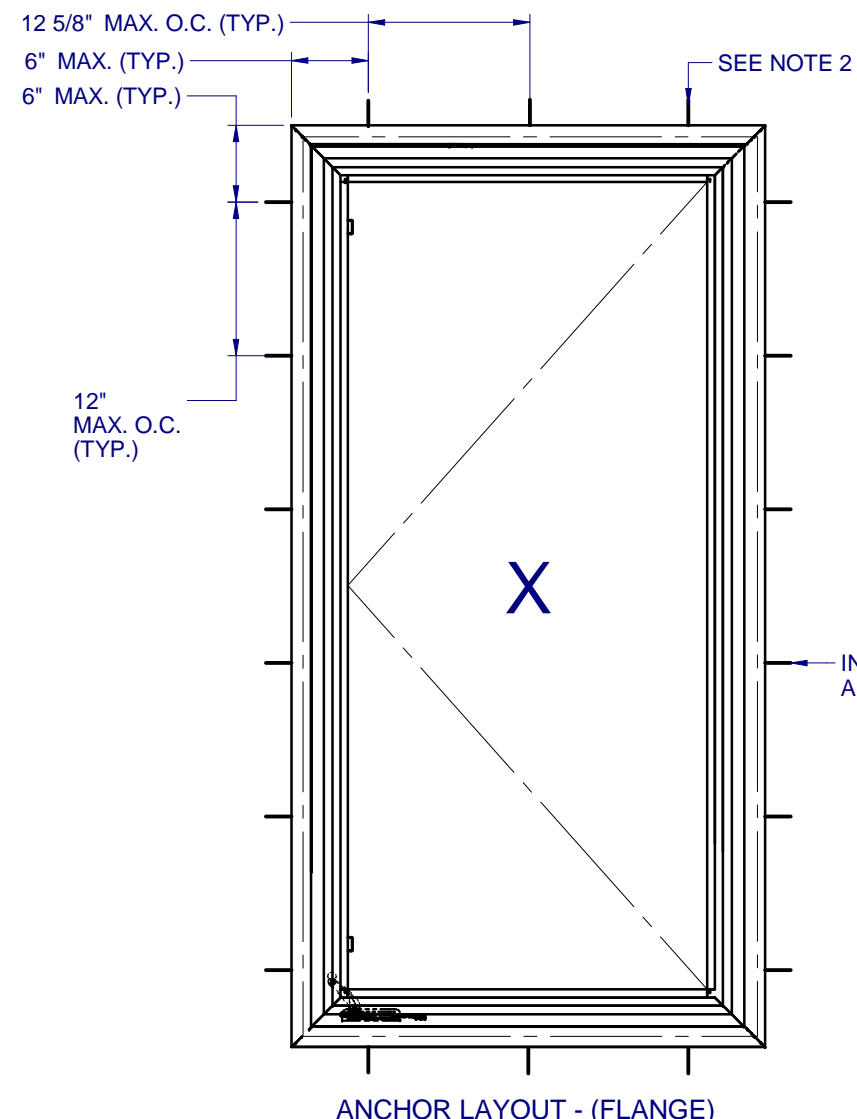


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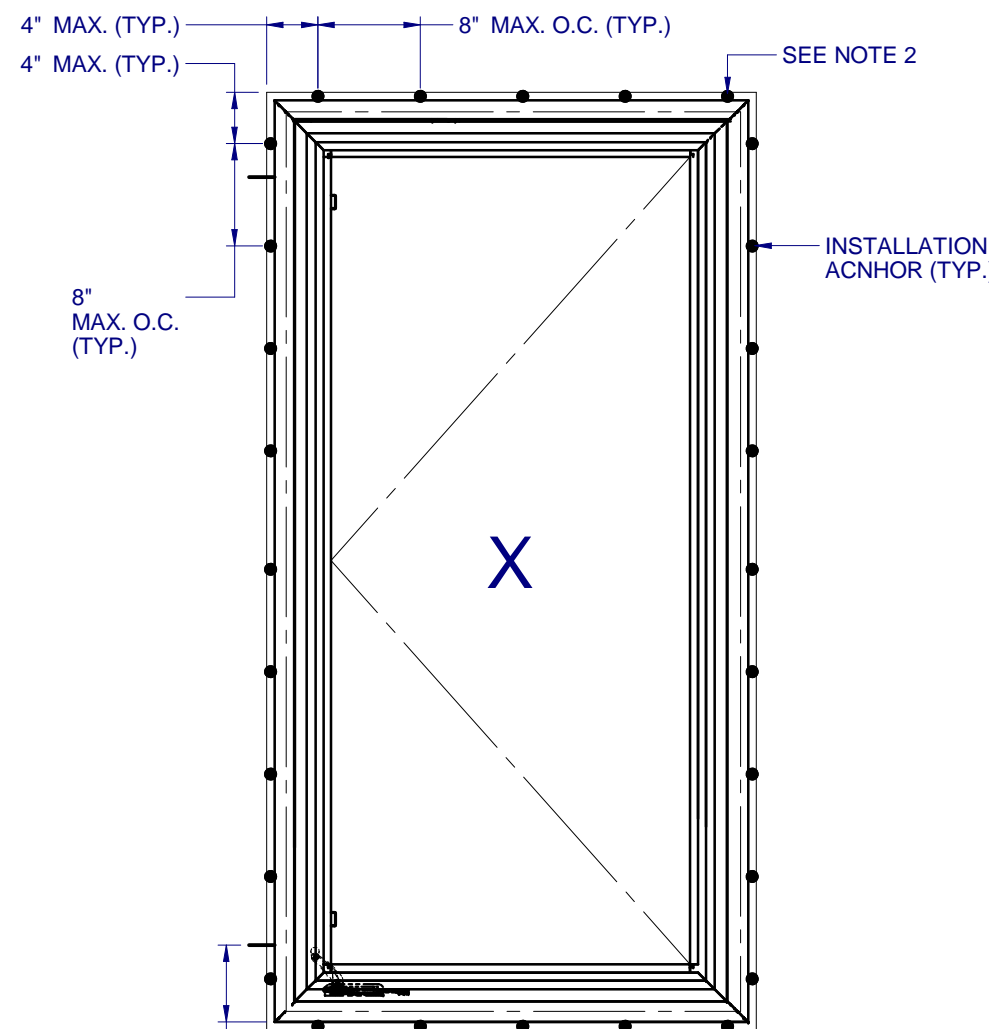
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FL PE # 58201  
2428 Old Natchez Trc Trl  
Camden, TN 38320  
PH. 941-380-1574

SHEET DESCRIPTION:  
**ANCHOR SCHEDULE AND  
NOTES**

DRAWN BY: <b>ADE</b>	DATE: <b>07/27/07</b>
DWG #: <b>CWS-160</b>	REV.: <b>F</b>
SCALE: <b>1:14.29</b>	<b>SHEET 5 OF 6</b>



ANCHOR LAYOUT - (FLANGE)



ANCHOR LAYOUT - (FIN)

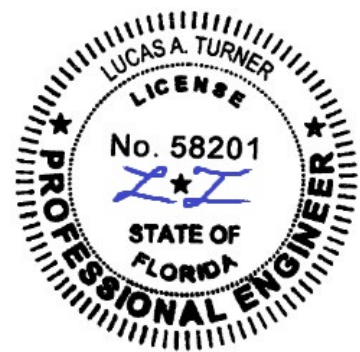
6" THRU FRAME ANCHOR  
HINGE SIDE JAMB (TYP.)

**NOTES:**

1. INSTALL ONE ANCHOR AT EACH INSTALLATION LOCATION. SILL ANCHOR SPACING SAME AS HEAD.
2. SHIM AS REQ AT EACH INSTALLATION ANCHOR USING LOAD BEARING SHIMS. MAX. ALLOWABLE SHIM STACK TO BE 1/4". USE SHIMS WHERE SPACE GREATER THAN 1/16" IS PRESENT. LOAD BEARING SHIMS SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER. WOOD SHIMS ARE NOT ALLOWED.
3. ANCHOR TYPE, SIZE, SPACING AND EMBEDMENT SHALL BE AS SPECIFIED IN THESE DRAWINGS, SEE TABLE 1, SHEET 6.
4. ALL INSTALLATION ANCHORS MUST BE MADE OF OR PROTECTED WITH A CORROSION RESISTANT MATERIAL OR COATING. DISSIMILAR METALS OR MATERIALS IN CONTACT WITH PRESSURE TREATED WOOD MUST BE PROTECTED TO PREVENT REACTION.
5. INSTALLATION ANCHORS SHALL BE IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM SPECIFIED IN TABLE 1, SHEET 6.
6. ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL DRESSING OR STUCCO. FOR CONCRETE/CMU OPENINGS, EMBEDMENT SHALL BE BEYOND WOOD BUCKS, IF USED, INTO SUBSTRATE - 1X BUCKS ARE OPTIONAL.
7. A MINIMUM CENTER-TO-CENTER SPACING SHALL BE MAINTAINED BETWEEN ALL FASTENERS: 3" FOR MASONRY, 1" FOR WOOD AND METAL.
8. WOOD OR MASONRY OPENINGS, BUCKS AND BUCK FASTENERS SHALL BE PROPERLY DESIGNED BY THE ARCHITECT OR ENGINEER OF RECORD AND INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE. SUBSTRATES SHALL MEET THE MINIMUM STRENGTH REQUIREMENTS AS SHOWN IN TABLE1, SHEET 6. CONCRETE AND MASONRY SUBSTRATES MAY NOT BE CRACKED.
9. SEALING AND FLASHING STRATEGIES FOR OVERALL WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS FOLLOWING THE CURRENT VERSION OF THE REFERENCE DOCUMENTS:  
FMA/AAMA 100(FIN WINDOWS), FMA/AAMA 200(FLANGE WINDOWS), FMA/WDMA 250(BOX WINDOWS), FMA/AAMA/WDMA 300(EXTERIOR DOORS)

**8400 PVC  
CASEMENT  
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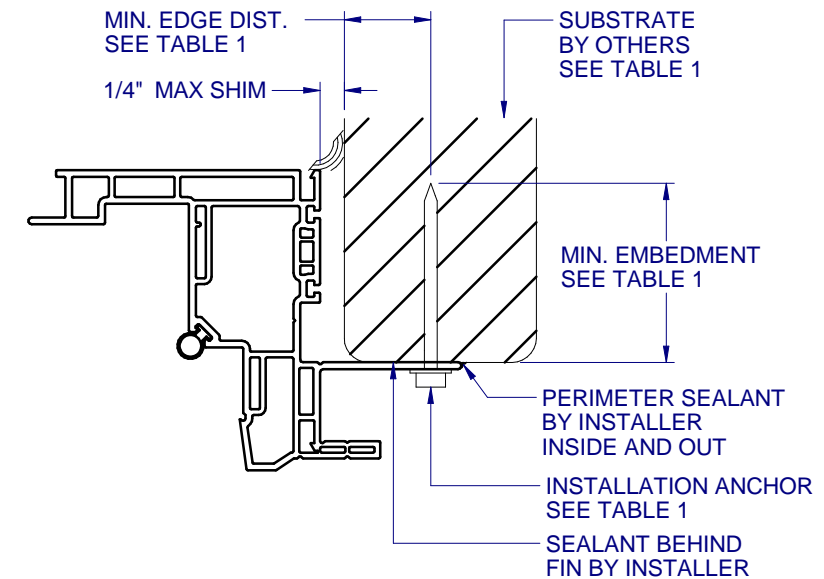
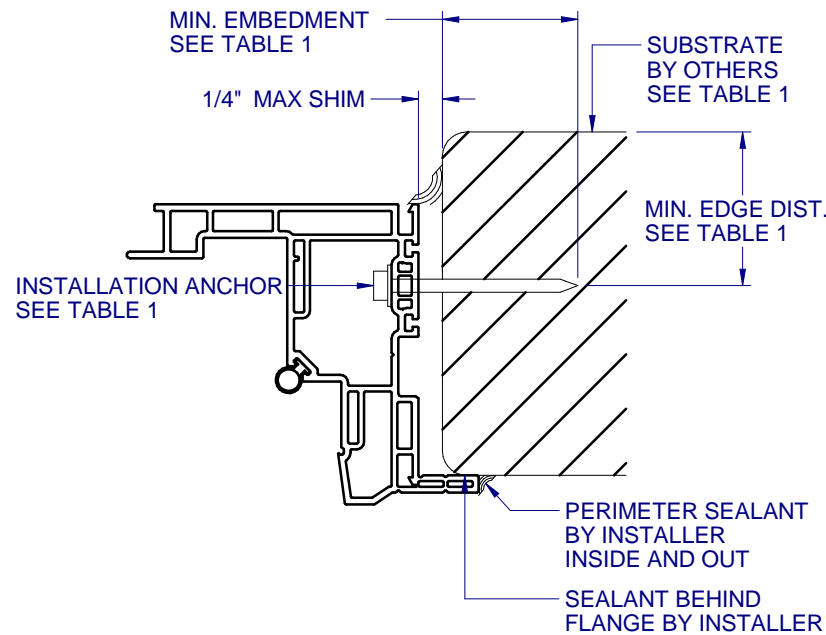
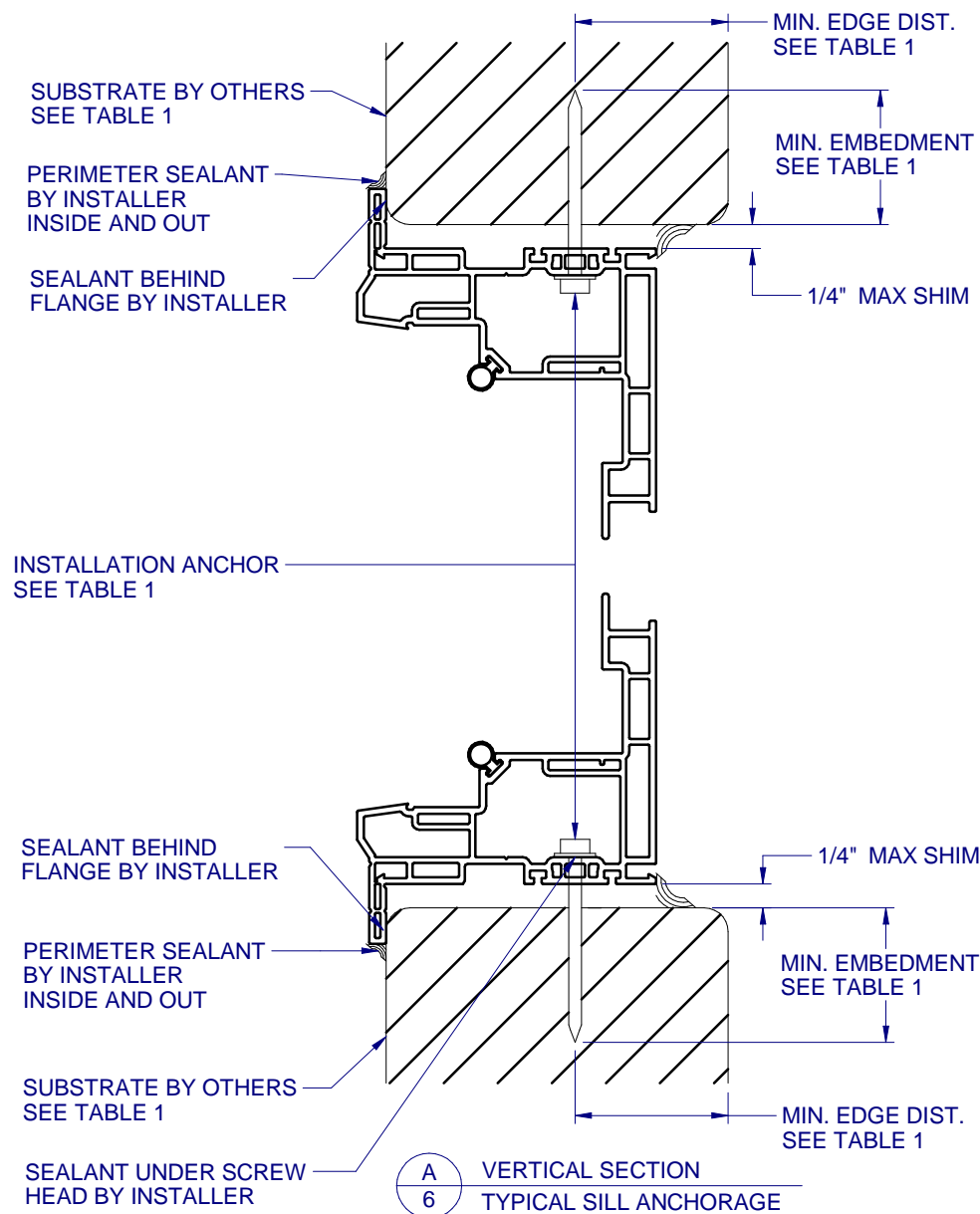
LUCAS A. TURNER, P.E.  
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SHEET DESCRIPTION:

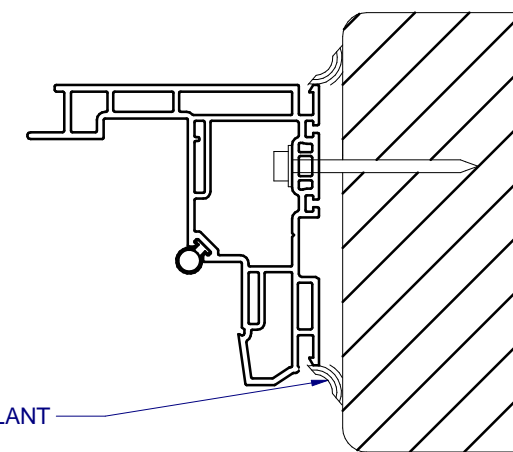
**INSTALLATION DETAILS**

DRAWN BY:	DATE:
ADE	07/27/07
DWG #:	REV.:
CWS-160	F
SCALE:	SHEET
1:2	6 OF 6

**TYPICAL HEAD ANCHORAGE**



NOTE: ADDITIONAL THRU-FRAME ANCHORS (AS SHOWN IN DET. B/6) REQ'D AT THE HINGE SIDE JAMB, SEE SHEET 5 ANCHOR LAYOUT.



FLANGE REMOVAL NOTE: PARTIALLY OR FULLY REMOVING THE FLANGE, UP TO AND INCLUDING A BOX-FRAME APPLICATION IS ACCEPTABLE PROVIDED:

- MIN. 1/4" FILLET OF CONSTRUCTION-GRADE ADHESIVE CAULK IS APPLIED INSIDE AND OUT, FULL PERIMETER, BY INSTALLER.
- PRODUCT ANCHORAGE IS IN ACCORDANCE WITH REQUIREMENTS AS SHOWN FOR FLANGE WINDOWS.

**TABLE 1: APPROVED INSTALLATION FASTENERS**

FRAME TYPE	SUBSTRATE TYPE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DIST.
FLANGE	CONCRETE (2.0 KSI MIN.)	3/16" ITW TAPCON	1"	1-1/8"
FLANGE	HOLLOW OR GROUT-FILLED CMU (117 PCF MIN.)	3/16" ITW TAPCON	1"	2"
FLANGE	CONCRETE (2.85 KSI MIN.)	3/16" ELCO ULTRACON	1"	1"
FLANGE	GROUT-FILLED CMU (ASTM C-90)	3/16" ELCO ULTRACON	1-1/4"	2-1/2"
FLANGE	2X MIN. SPRUCE-PINE-FIR (G=0.42)	3/16" ITW TAPCON OR ELCO ULTRACON	1-3/8"	7/8"
FLANGE	2X MIN. SPRUCE-PINE-FIR (G=0.42)	#10 WOOD SCREW	1-3/8"	7/8"
FLANGE	16 GAUGE (0.060") MIN. STEEL STUD (33 KSI YIELD MIN.)	#10-16 HILTI KWIK-FLEX OR ITW TEKS SELF-DRILLING SCREW	FULL THREAD THRU 0.060"	7/16"
FLANGE	1/8" ALUM. (6063-T5 MIN.) OR 1/8" STEEL (33 KSI MIN.)	#10 GRADE 5 SELF-TAPPING / DRILLING SCREW	FULL THREAD THRU 0.125"	7/16"
FIN	2X MIN. SPRUCE-PINE-FIR (G=0.42)	#8 WOOD SCREW	1-1/2"	7/16"