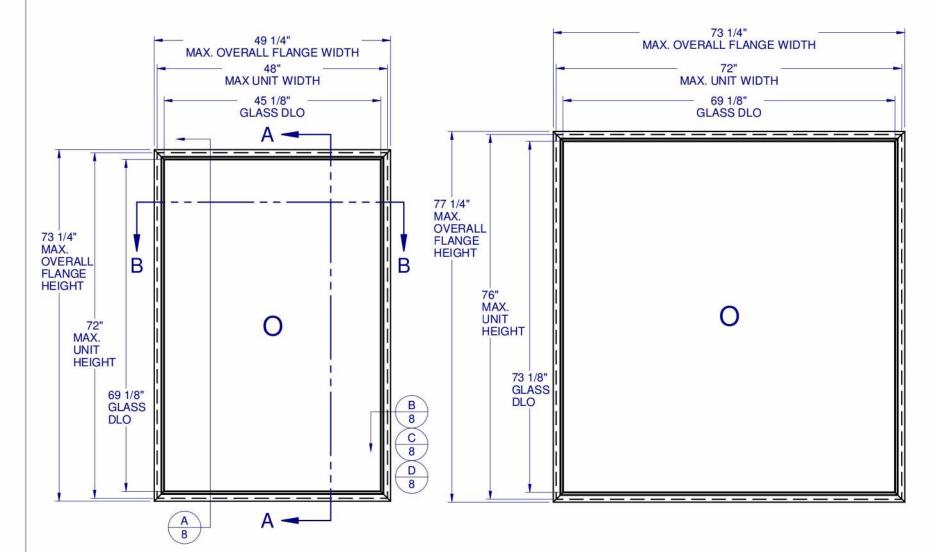
### PICTURE WINDOW - LARGE MISSILE IMPACT



#### **GENERAL NOTES:**

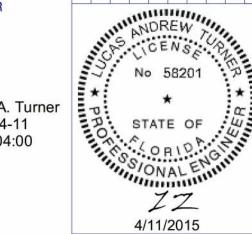
- 1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE FLORIDA BUILDING CODE (FBC), CURRENT EDITION INCLUDING THE HIGH VELOCITY HURRINGANE ZONE (HVHZ) AND IS RATED FOR WIND ZONE 4 MISSILE LEVEL D IMPACT USE AS DEFINED IN ASTM E 1996 PER THE FBC.
- 2. GLAZING OPTIONS: (SEE SHEET 3)
- 3. CONFIGURATIONS: "O". ARCHITECTURAL SHAPES INCLUDE, BUT ARE NOT LIMITED TO, THOSE SHOWN ON SHEET 2.
- 4. DESIGN PRESSURE RATING:
  - -NEGATIVE DESIGN LOADS BASED ON, TESTED PRESSURE AND GLASS TABLES ASTM E-1300-04.
  - -POSITIVE DESIGN LOADS BASED ON, TESTED PRESSURE, WATER INFILTRATION TEST PRESSURE AND GLASS TABLES ASTM E-1300-04.
- 5. ANCHORAGE: THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. SEE SHEET 8 FOR ANCHOR DETAILS. WINDLOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
- 6. PRODUCT APPROVED FOR IMPACT RESISTANCE. SHUTTERS ARE NOT REQUIRED.
- 7. ALL FRAMES ARE FULLY WELDED.
- 8. SERIES / MODEL DESIGNATION PW-8300.
- 9. THE DESIGNATION X AND O STAND FOR THE FOLLOWING: O = FIXED SASH.
- 10. SECTION CALLOUTS APPLY TO ALL ELEVATIONS IN A SIMILAR LOCATION.

Lucas A. Turner 2015-04-11 15:04-04:00

1900 SW 44TH AVE. OCALA, FLORIDA 34474 WWW.CWS.CC

#### 8300 PVC **PICTURE WINDOW** IMPACT

 _					
TEF 03/30/15	EMK 10/29/14	ADE 12/06/11	02/02/08	BY: DATE:	
TEF	EMK	ADE	ADE	BY:	
UPDATED PER 2014 FBC	UPDATED, RECERTIFICATION	UPDATED PER 2010 FBC	UPDATED PER NEW FBC REQ   ADE   07/07/08	NO.: DESCRIPTION:	REVISIONS
	ပ	В	A	NO.:	



LUCAS A. TURNER, P.E. FL PE # 58201 1239 JABARA AVE. NORTH PORT, FL 34288 PH. 941-380-1574

SHEET DESCRIPTION:

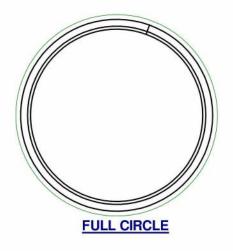
#### **GENERAL NOTES AND ELEVATIONS**

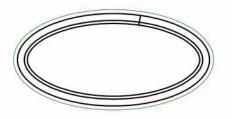
DRAWN BY:	DATE:
ADE	05/05/07
DWG #:	REV.:
CWS-159	D
SCALE:	SHEET
1:20	1 OF 8

#### TABLE OF CONTENTS

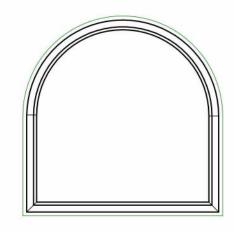
<b>GENERAL NOTES &amp; ELEVATIONS</b>	1
ARCHITECTURAL SHAPES	2
GLAZING DETAILS	
SECTION VIEWS	4
EXTRUSIONS & B.O.M	5
ANCHOR SCHEDULE & NOTES	6-7
INSTALLATION DETAILS	8

LOCATION	MAX. UNIT SIZE	DESIGN PRESSURE RATING	IMPACT RATING
ANY	48" x 72"	+/- 55 PSF	
NON-HVHZ	72" x 76"	+/- 65 PSF	LARGE MISSILE IMPACT
HVHZ	12 X 10	+/- 67.5 PSF	

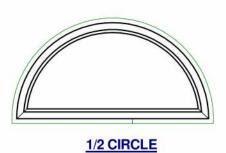




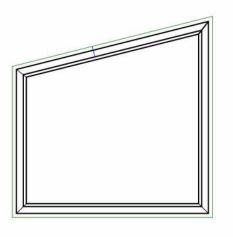
**FULL ELLIPSE ("OVAL")** 



**TOMBSTONE** 

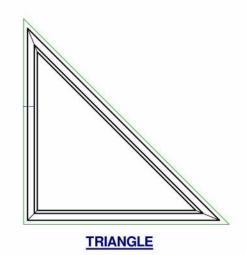


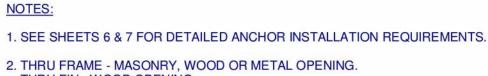




TRAPEZOID

1/4 CIRCLE



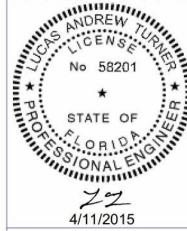


- 2. THRU FRAME MASONRY, WOOD OR METAL OPENING. THRU FIN WOOD OPENING.
- 3. OVERALL SIZE MUST NOT EXCEED THE MAX. WIDTH AND HEIGHT OF RECTANGULAR WINDOWS ON SHEET 1.
- 4. ANCHOR SPACING FOR ARCHITECTUAL FLANGE AND FIN WINDOWS MUST FOLLOW THE LAYOUTS SHOWN ON SHEETS 6 & 7, WITH ANCHOR SPACING MEASURED ALONG THE LENGTH OF THE PRODUCT.



#### 8300 PVC **PICTURE WINDOW IMPACT**

03/30/15	10/29/14	12/06/11	80//0//0	DATE:	
TEF	<b>EMK</b>	ADE	ADE	BY:	
UPDATED PER 2014 FBC	UPDATED, RECERTIFICATION EMK 10/29/14	UPDATED PER 2010 FBC	UPDATED PER NEW FBC REQ   ADE   07/07/08	NO.: DESCRIPTION:	REVISIONS
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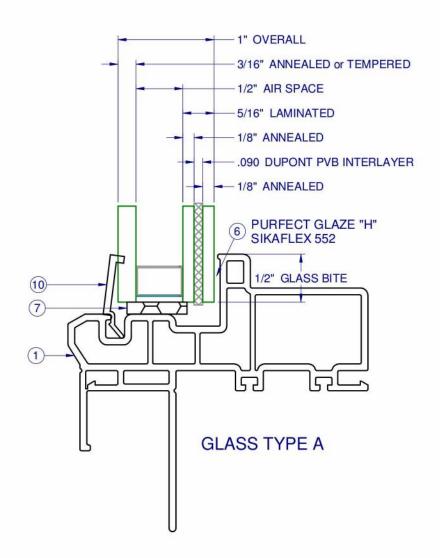


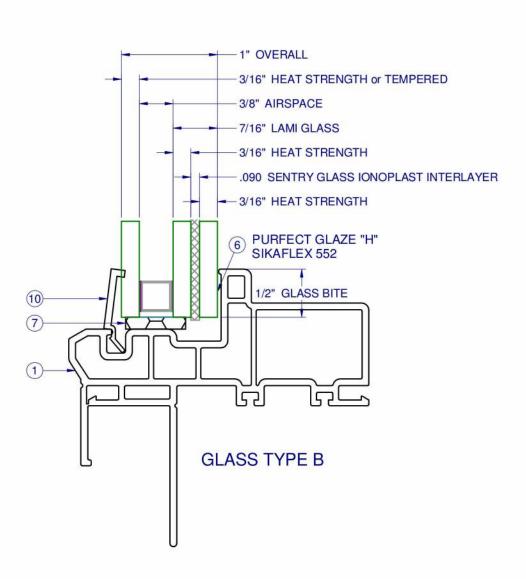
LUCAS A. TURNER, P.E. FL PE # 58201 1239 JABARA AVE. NORTH PORT, FL 34288 PH. 941-380-1574

SHEET DESCRIPTION:

#### ARCHITECTURAL SHAPES

DRAWN BY:	DATE:
ADE	05/05/07
DWG #:	REV.:
CWS-159	D
SCALE:	SHEET
1:1	2 OF 8



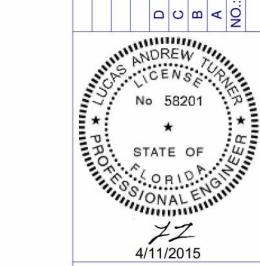


	GLASS	MAX SIZE
	TYPE	WxH
DP +/-55	Α	48 X 72
DP +/-67.5	В	72 X 76



#### 8300 PVC PICTURE WINDOW IMPACT

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UPDATED PER 2014 FBC UPDATED, RECERTIFICATION	UPDATED, RECERTIFICATION	UPDATED PER 2010 FBC	UPDATED PER NEW FBC REQ ADE	NO.: DESCRIPTION:	REVISIONS
	C	<u>а</u>	A	NO.:	

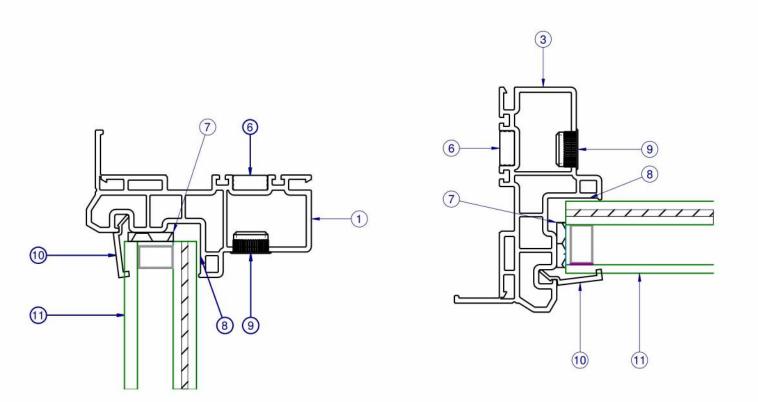


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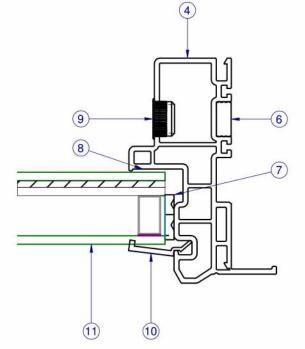
SHEET DESCRIPTION:

#### GLAZING DETAILS

DRAWN BY:	DATE:
ADE	05/05/07
DWG #:	REV.:
CWS-159	D
SCALE: 1:1	SHEET 3 OF 8

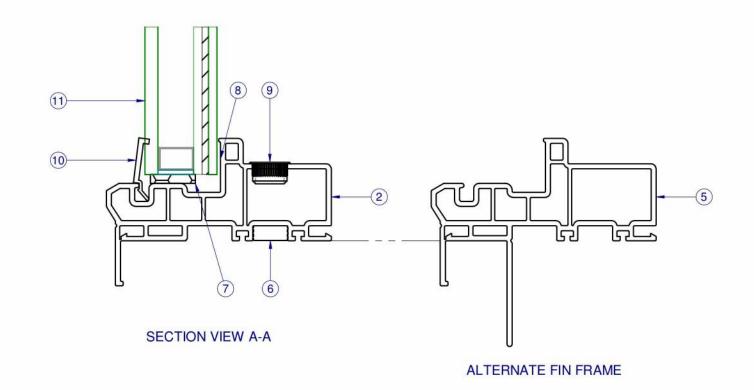






SECTION VIEW B-B

#### INTERIOR

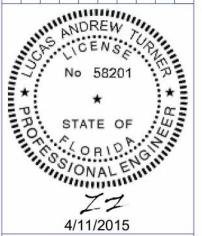


# CUSTOM WINDOW SYSTEMS 1900 SW 44TH AVE.

1900 SW 44TH AVE. OCALA, FLORIDA 34474 WWW.CWS.CC

#### 8300 PVC PICTURE WINDOW IMPACT

03/30/15	EMK 10/29/14	12/06/11	07/07/08	DATE:	
TEF	EMK	ADE	ADE	BY:	
UPDATED PER 2014 FBC	UPDATED, RECERTIFICATION	UPDATED PER 2010 FBC	UPDATED PER NEW FBC REQ ADE	NO.: DESCRIPTION:	REVISIONS
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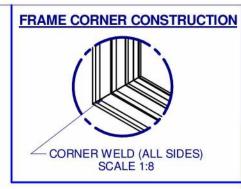
LUCAS A. TURNER, P.E. FL PE # 58201 1239 JABARA AVE. NORTH PORT, FL 34288 PH. 941-380-1574

SHEET DESCRIPTION:

#### SECTION VIEWS

DRAWN BY:	DATE:
ADE	05/05/07
DWG #:	REV.:
CWS-159	D
SCALE:	SHEET
1:1.33	4 OF 8

	PARTS LIST						
ITEM	PART # DESCRIPTION		VENDOR	MATERIAL			
1	H-6006B	FRAME, PW, MAIN, HEAD	MIKRON	PVC			
2	H-6006B	FRAME, PW, MAIN, SILL	MIKRON	PVC			
3	H-6006B	FRAME, PW, MAIN, L. JAMB	MIKRON	PVC			
4	H-6006B	FRAME, PW, MAIN, R. JAMB	MIKRON	PVC			
5	H-6006A	FRAME, PW, MAIN, FIN	MIKRON	PVC			
6	P-3113	SCREW SUPPORT FOR PVC	TEAM PLASTIC	RUBBER			
7	P-3352	SET. BLK., 85 DUR., 1/8" x 5/8" x 2" LG.	FRANK LOWE	RUBBER			
8		PURFECT GLAZE "H", SIKAFLEX 552	HENKEL / SIKA	SILICONE			
9	P-3752	CAP PLUG, 1/2" HOLE	M&M	SILICONE			
10	S-6064	GLZ. BE., FXD. (1" O.A. I.G.)	MIKRON	PVC			
11	GLASS	SEE SHEET 3					

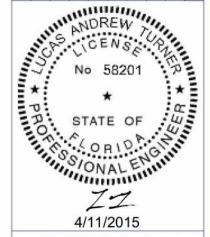




1900 SW 44TH AVE. OCALA, FLORIDA 34474 WWW.CWS.CC

#### 8300 PVC PICTURE WINDOW IMPACT

03/30/15	EMK 10/29/14	12/06/11	07/07/08	DATE:		
TEF	EMK	ADE	ADE	BY:		
UPDATED PER 2014 FBC	UPDATED, RECERTIFICATION	UPDATED PER 2010 FBC	UPDATED PER NEW FBC REQ ADE	VO.: DESCRIPTION:	REVISIONS	
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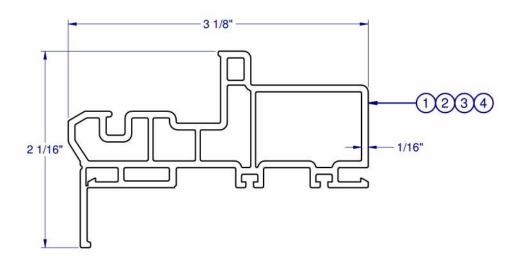


LUCAS A. TURNER, P.E. FL PE # 58201 1239 JABARA AVE. NORTH PORT, FL 34288 PH. 941-380-1574

SHEET DESCRIPTION:

#### EXTRUSIONS & B.O.M.

DRAWN BY:	DATE:
ADE	05/05/07
DWG #:	REV.:
CWS-159	D
SCALE: 1:1	SHEET 5 OF 8



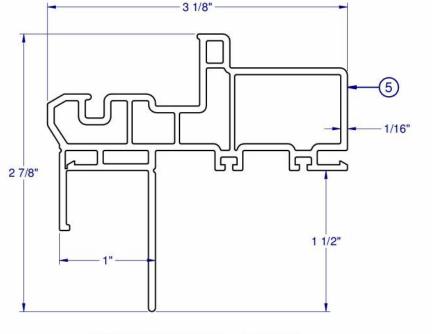
PVC FRAME FLANGE - H-6006B



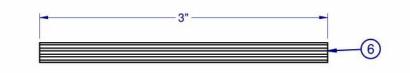
PVC GLAZEBEAD - S-6064

1/16"

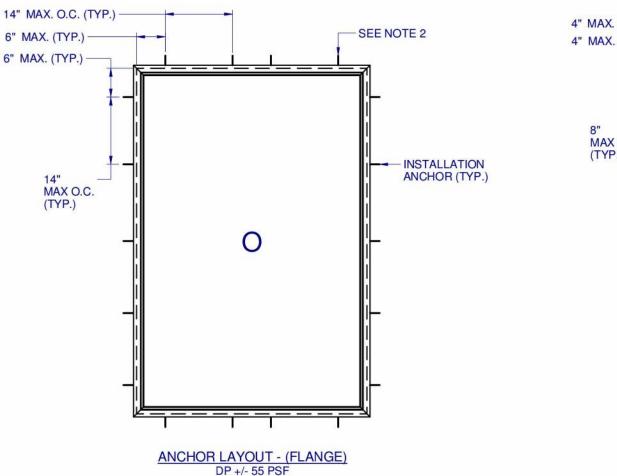
7/8"

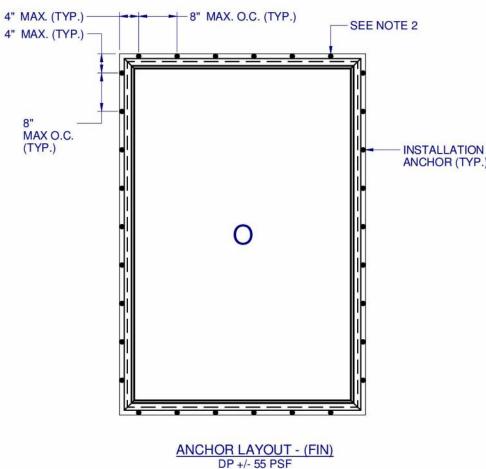


PVC FRAME FIN - H-6006A



SCREW SUPPORT - P-3113





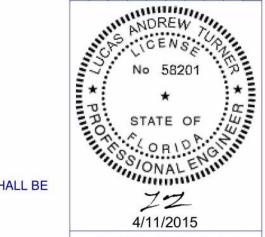
#### NOTES:

- 1. INSTALL ONE ANCHOR AT EACH INSTALLATION LOCATION. ANCHOR SPACING APPLIES TO ALL SHAPES (SEE SHEET 2) ALONG ALL FRAME EDGES. 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 8.
- 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 8.
- 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. INSTALLATIONS TO SOLID CONCRETE OR GROUT-FILLED CMU MAY INCLUDE BUT DO NOT REQURE 1X WOOD BUCKS BETWEEN THE PRODUCT AND SUBSTRATE. INSTALLATIONS TO HOLLOW CMU REQUIRE THE USE OF 1X BUCKS BETWEEN THE PRODUCT AND SUBSTRATE.
- 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 8. 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)



#### 8300 PVC PICTURE WINDOW IMPACT

03/30/15	EMK 10/29/14	ADE 12/06/11	80/20/20	DATE:	
TEF	<b>EMK</b>	ADE	ADE	BY:	
UPDATED PER 2014 FBC	UPDATED, RECERTIFICATION	UPDATED PER 2010 FBC	UPDATED PER NEW FBC REQ   ADE   07/07/08	NO.: DESCRIPTION:	REVISIONS
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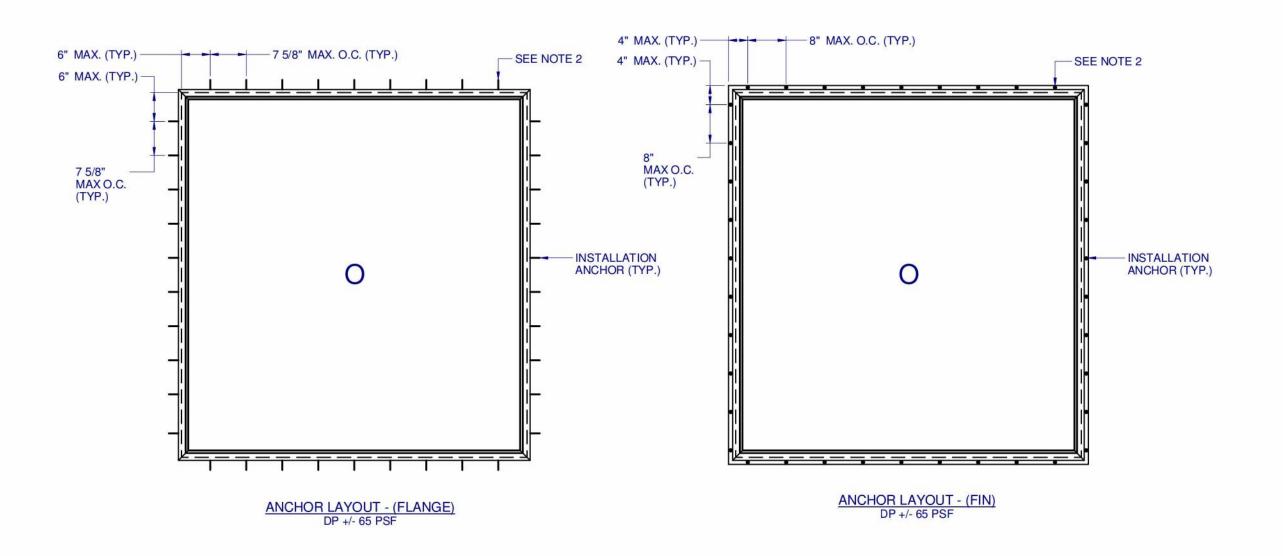


LUCAS A. TURNER, P.E. FL PE # 58201 1239 JABARA AVE. NORTH PORT, FL 34288 PH. 941-380-1574

SHEET DESCRIPTION:

## ANCHOR SCHEDULE & NOTES

DRAWN BY:	DATE:
ADE	05/05/07
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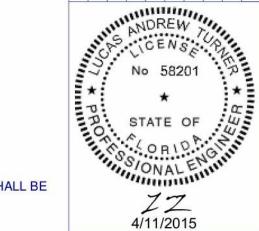
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#### 8300 PVC PICTURE WINDOW IMPACT

03/30/15	10/29/14	12/06/11	80//0//0	DATE:	
TEF	EMK	ADE	ADE	BY:	
UPDATED PER 2014 FBC	UPDATED, RECERTIFICATION EMK 10/29/14	UPDATED PER 2010 FBC	UPDATED PER NEW FBC REQ ADE	NO.: DESCRIPTION:	REVISIONS
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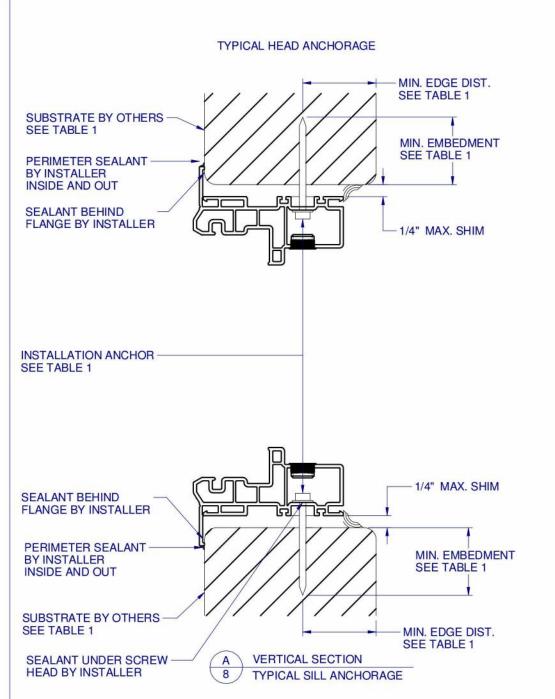


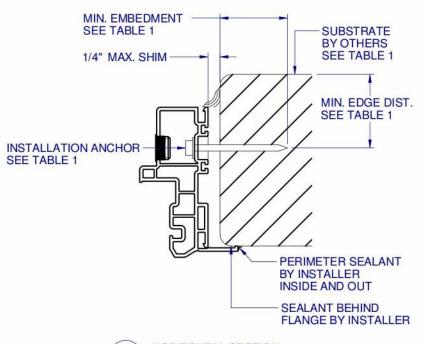
LUCAS A. TURNER, P.E. FL PE # 58201 1239 JABARA AVE. NORTH PORT, FL 34288 PH. 941-380-1574

SHEET DESCRIPTION:

## ANCHOR SCHEDULE & NOTES

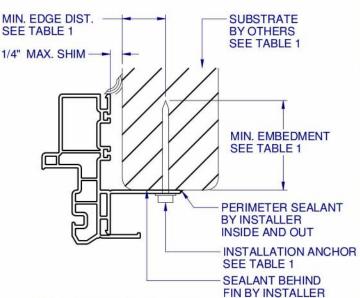
DRAWN BY:	DATE:
ADE	05/05/07
DWG #:	REV.:
CWS-159	D
SCALE:	SHEET
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B HORIZONTAL SECTION

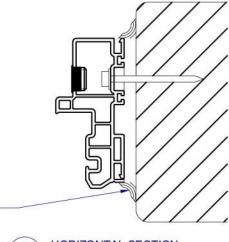
8 TYPICAL JAMB ANCHORAGE



C HORIZONTAL SECTION

8 TYPICAL FIN ANCHORAGE

HEAD AND SILL SIMILAR FOR FIN INSTALLATION



PERIMETER SEALANT BY INSTALLER INSIDE AND OUT

D HORIZONTAL SECTION

BOX FRAME INSTALLATION
HEAD AND SILL SIMILAR FOR BOX INSTALLATION

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

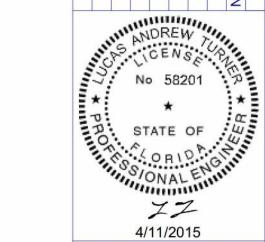
- MIN. 1/4" FILLET OF CONSTRUCTION-GRADE ADHESIVE CAULK IS APPLIED INSIDE AND OUT, FULL PERIMETER, BY INSTALLER.
- PRODUCT ANCHORAGE IS IN ACCORDANCE WITH REQUIREMENTS AS SHOWN FOR FLANGE WINDOWS.



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#### 8300 PVC PICTURE WINDOW IMPACT

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TEF	EMK	ADE	ADE	BY:	
UPDATED PER 2014 FBC	UPDATED, RECERTIFICATION EMK 10/29/14	UPDATED PER 2010 FBC	UPDATED PER NEW FBC REQ ADE	NO.: DESCRIPTION:	REVISIONS
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LUCAS A. TURNER, P.E. FL PE # 58201 1239 JABARA AVE. NORTH PORT, FL 34288 PH. 941-380-1574

SHEET DESCRIPTION:

#### INSTALLATION DETAILS

DRAWN BY:	DATE:
ADE	05/05/07
DWG #:	REV.:
CWS-159	D
SCALE:	SHEET
1:2	8 OF 8

