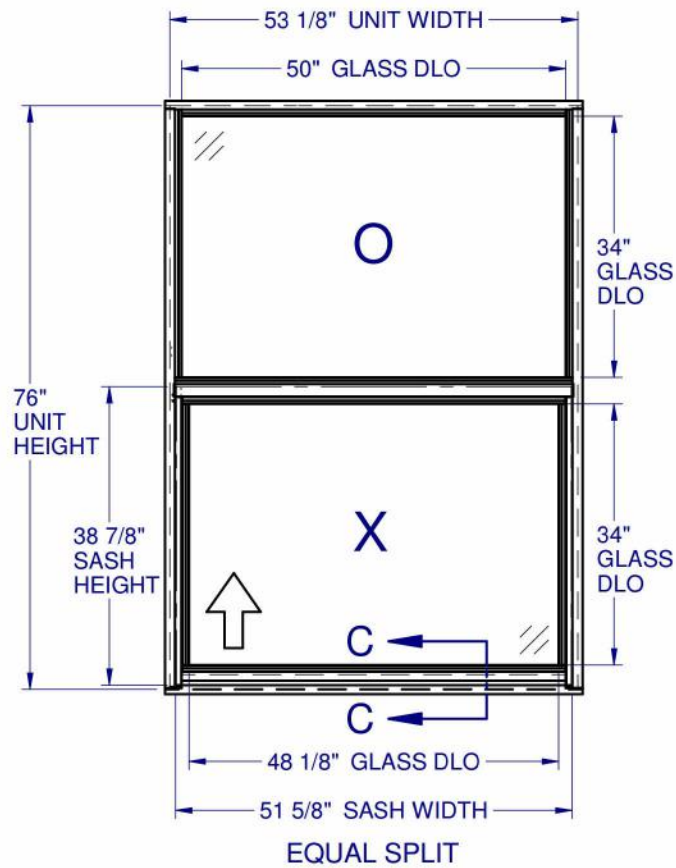


SINGLE HUNG - IMPACT

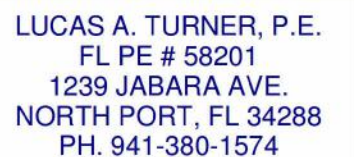


1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE FLORIDA BUILDING CODE (FBC), CURRENT EDITION INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ) AND IS RATED FOR WIND ZONE 4 MISSILE LEVEL D IMPACT USE AS DEFINED IN ASTM E 1996 PER THE FBC.
2. GLAZING DETAILS: (SEE SHEET 2)
3. CONFIGURATIONS: "O/X"
4. DESIGN PRESSURES:
 - 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 6 FOR INSTALLATION DETAIL. WIND LOAD DURATION FACTOR $C_d=1.6$ WAS USED FOR WOOD ANCHOR CALCULATIONS.
6. PRODUCTS APPROVED FOR IMPACT RESISTANCE. SHUTTERS ARE NOT REQUIRED.
7. ALL FRAMES AND SASHES ARE PROCESSED AND SCREWED TOGETHER. SMALL JOINT SEALANT USED AT ALL FRAME JOINTS.
8. SERIES / MODEL DESIGNATION SH-3100. (A.K.A. SH-3700)
9. THE DESIGNATION X AND O STAND FOR THE FOLLOWING:
 - X = OPERABLE SASH, O = FIXED SASH
10. SECTION CALLOUTS APPLY TO ALL CONFIGURATIONS.

Custom
WINDOW SYSTEMS

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

	B	SERIES NAME & ADD IG	EMK	10/15/15
	A	UPDATED PER 2014 FBC	EMK	03/13/15
	NO.:	DESCRIPTION:	BY:	DATE:
REVISIONS				

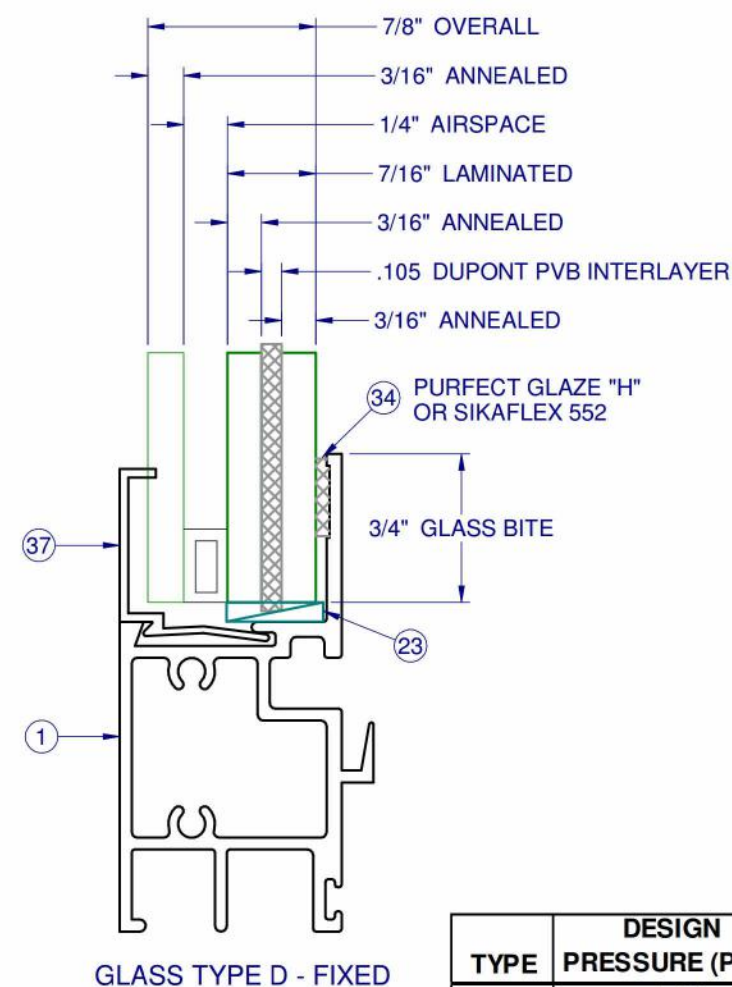
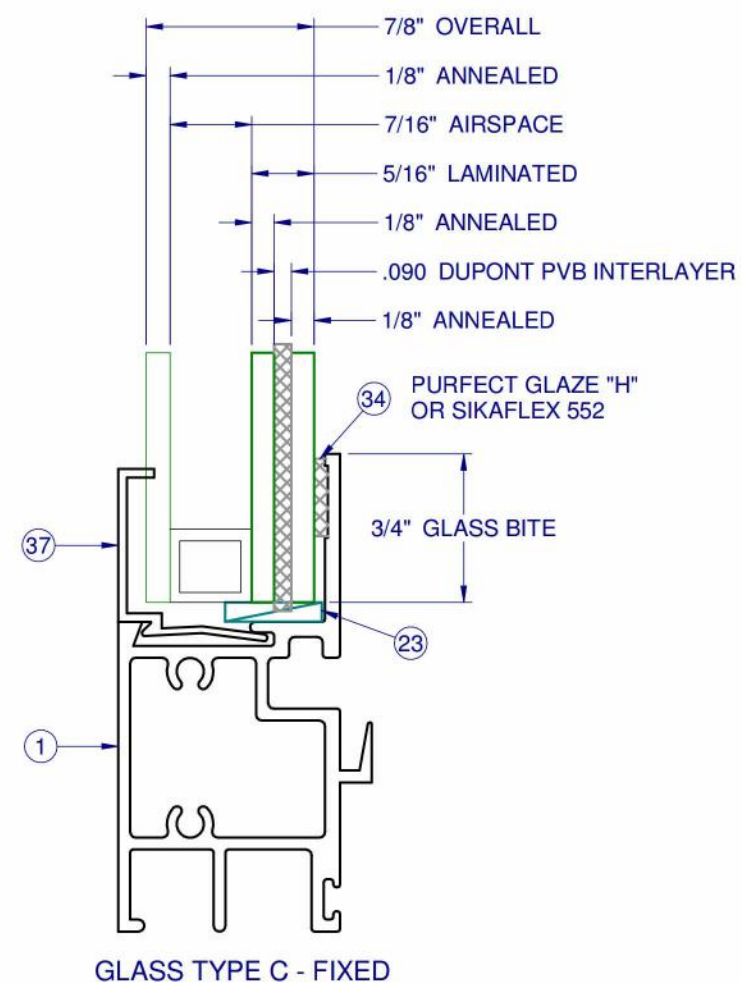
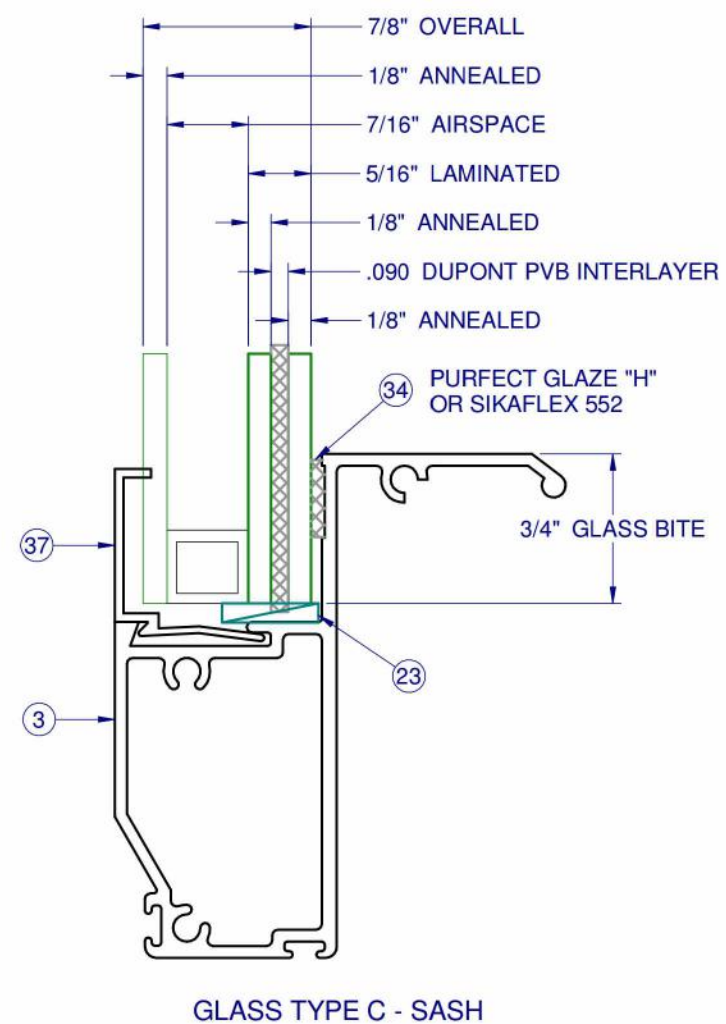
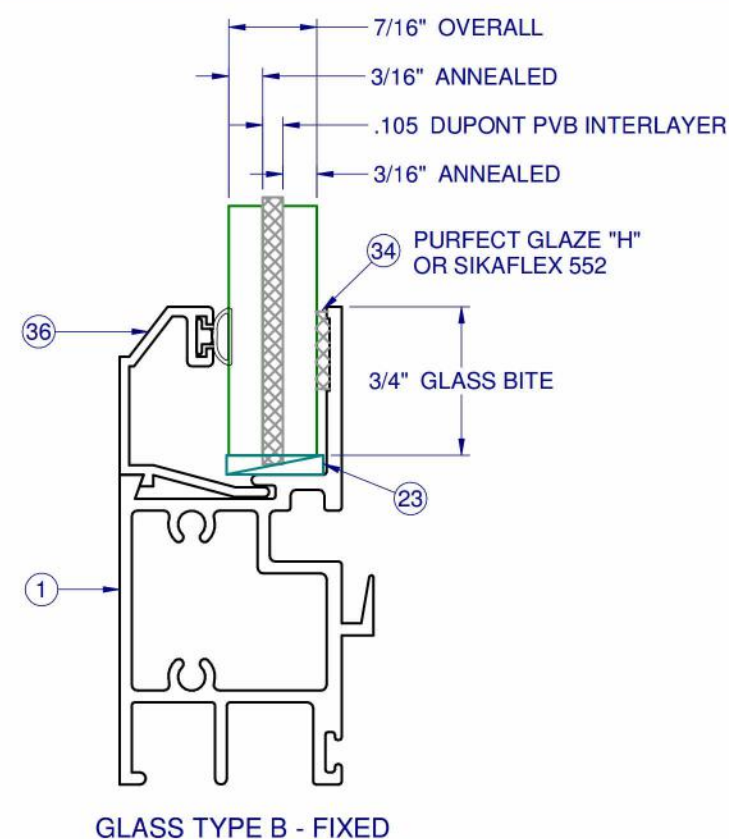
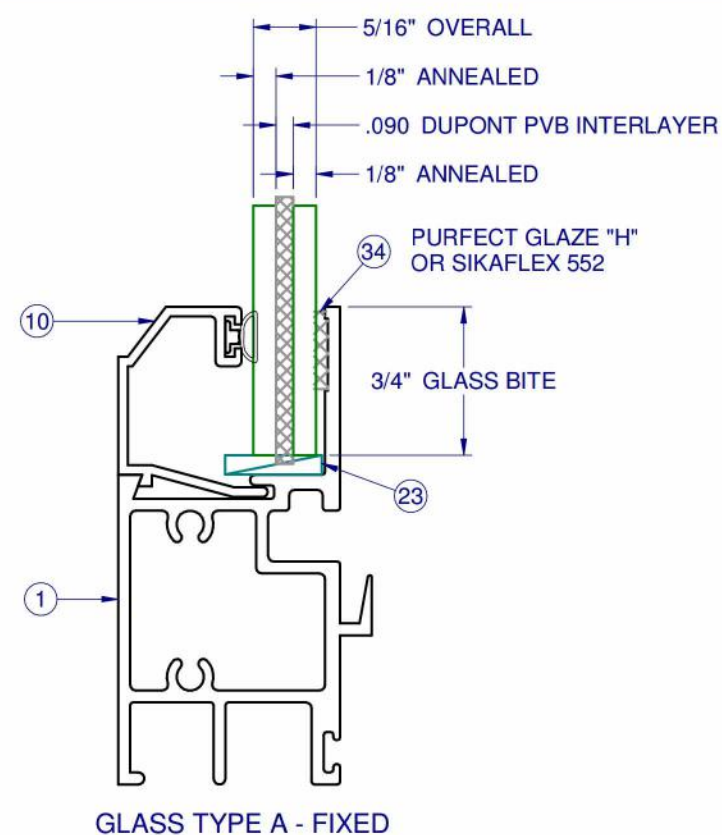
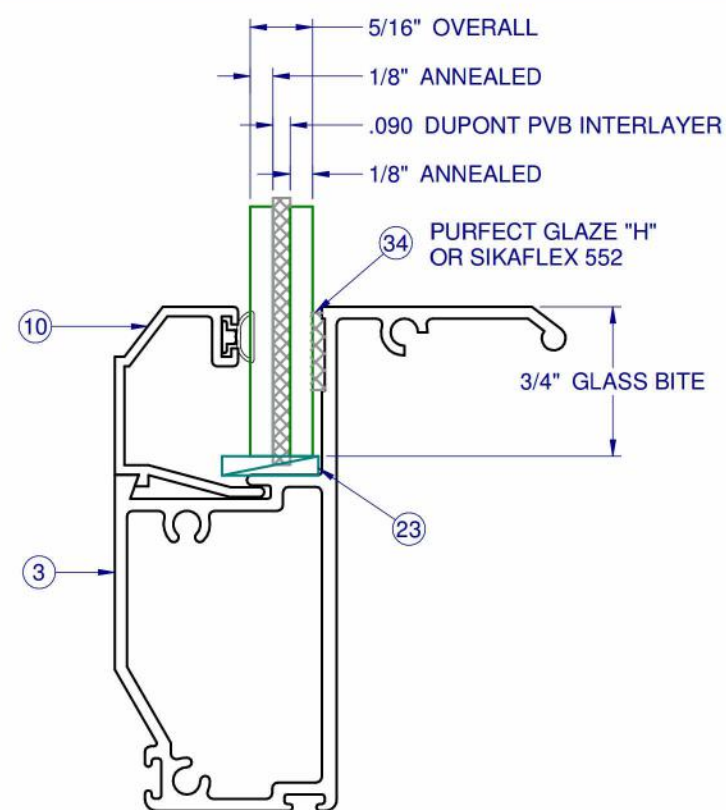


GENERAL NOTES AND ELEVATIONS

DRAWN BY: TEF	DATE: 05/17/12
DWG #: CWS-726	REV.: B
SCALE: 1:25	SHEET 1 OF 6

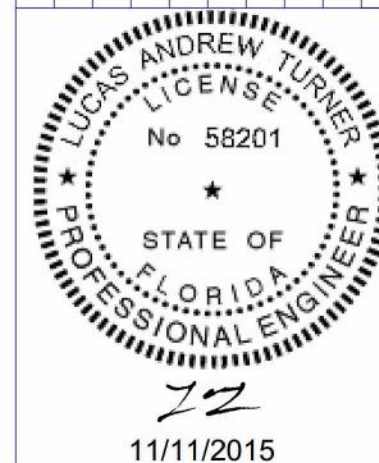
GENERAL NOTES & ELEVATIONS.....1
GLAZING DETAIL.....2
SECTION VIEWS.....3
EXTRUSIONS & B.O.M.....4
ANCHOR SCHEDULE & NOTES.....5
INSTALLATION DETAILS.....6

CONFIG.	MAX. UNIT SIZE	DESIGN PRESSURE RATING	IMPACT RATING
ORIEL	53-1/8" x 84"	+/- 70 PSF	LARGE MISSILE IMPACT
EQUAL	53-1/8" x 76"	+/- 70 PSF	
EQUAL	37" x 63"	+/- 80 PSF	



TYPE	DESIGN PRESSURE (PSF)	MAX. SIZE	SASH GLASS	FIXED GLASS
EQUAL	+/- 80	37" x 63"	A or C	A or C
	+/- 70	53" x 76"	A or C	A or C
ORIEL	+/- 70	53" x 84"	A or C	B or D

**3100 ALUM.
SINGLE HUNG
IMPACT**

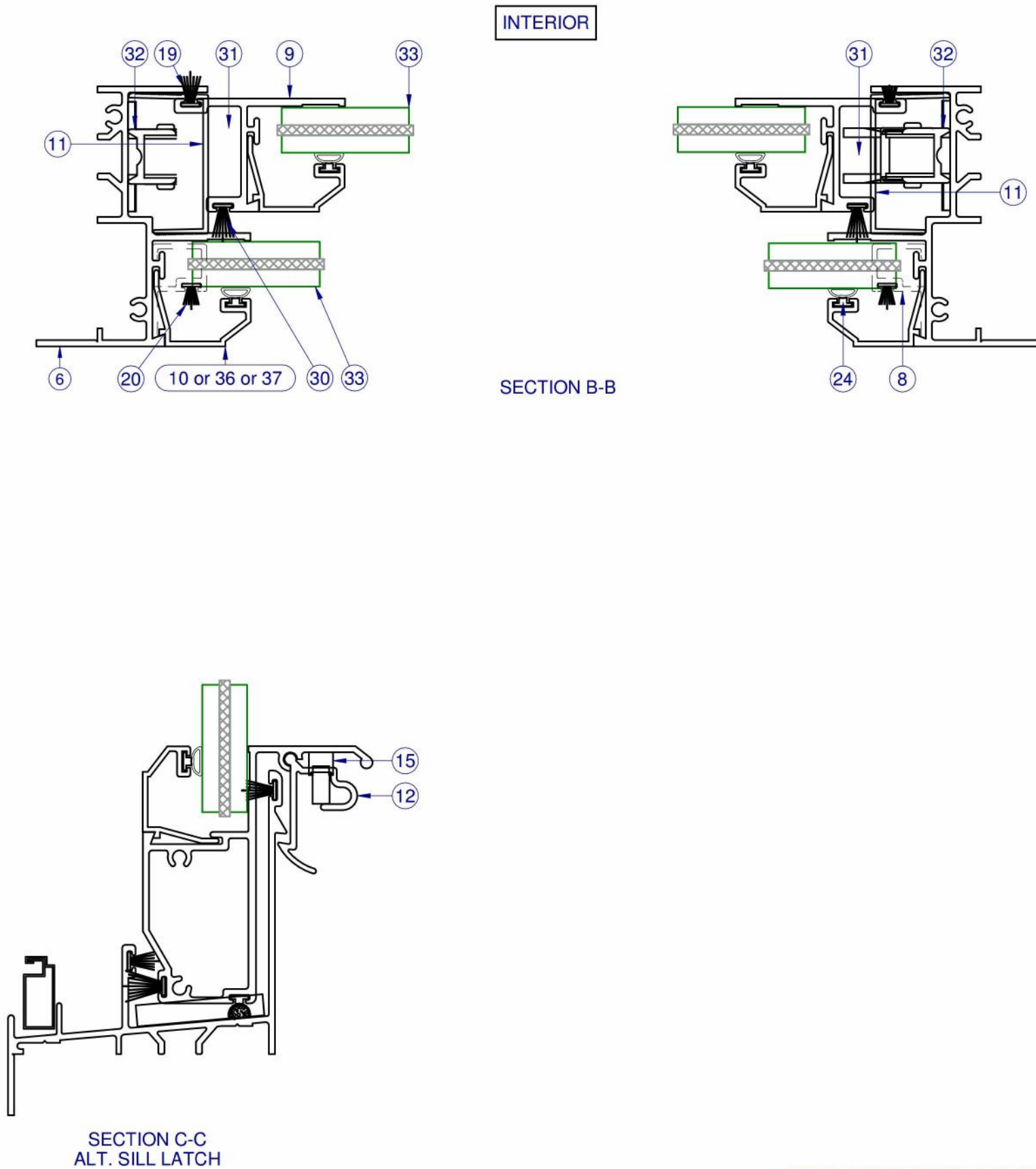
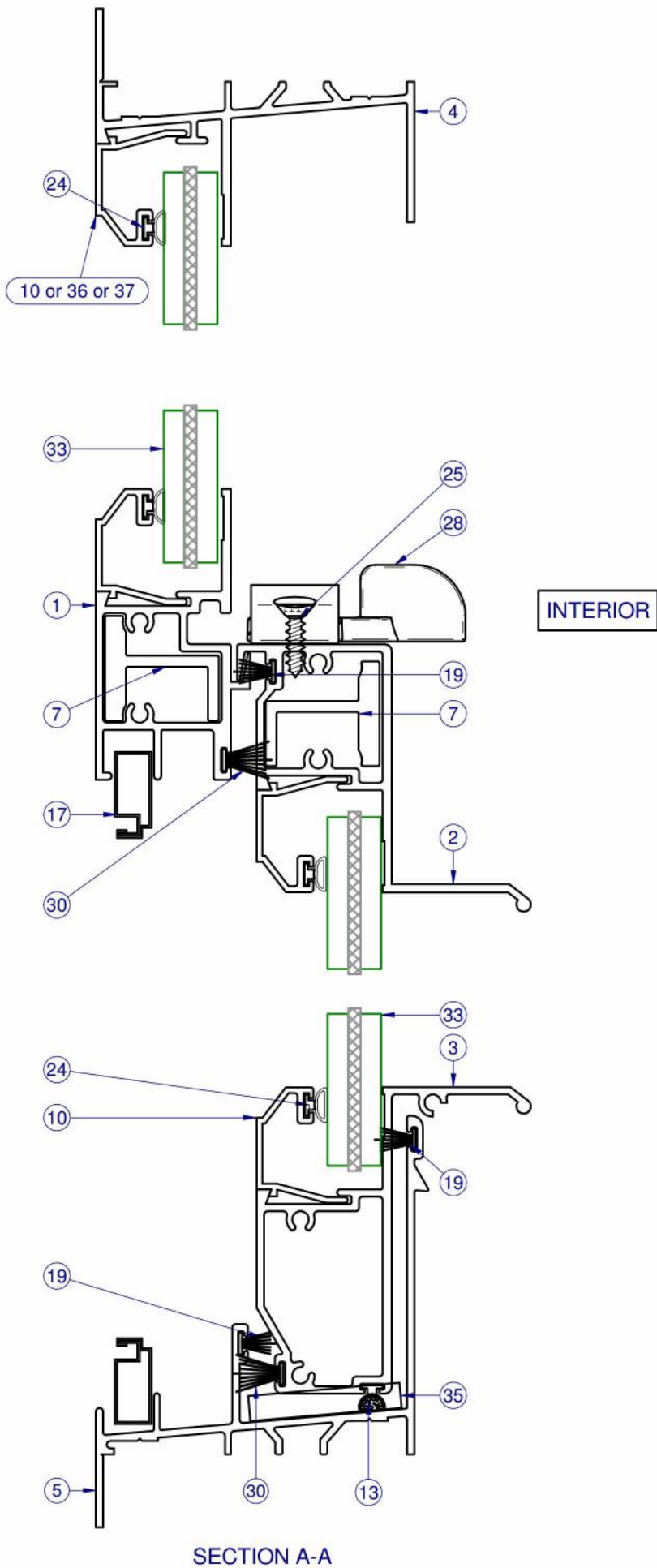
[illegible]

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

SHEET DESCRIPTION:

GLAZING DETAILS

DRAWN BY: TEF	DATE: 05/17/12
DWG #: CWS-726	REV.: B
SCALE: 1:1	SHEET 2 OF 6

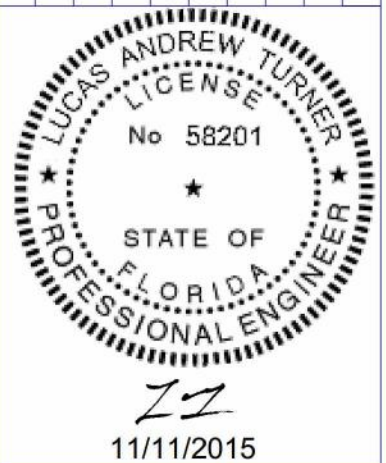


NOTE: MONOLITHIC LAMI SHOWN.
IG AVAILABLE, SEE SHEET 2.

ITEMS NOT SHOWN FOR CLARITY:
14, 16, 18, 21, 22, 26, 27

3100 ALUM. SINGLE HUNG IMPACT

NO.	DESCRIPTION	BY	DATE
B	SERIES NAME & ADD IG	EMK	10/15/15
A	UPDATED PER 2014 FBC	EMK	03/13/15

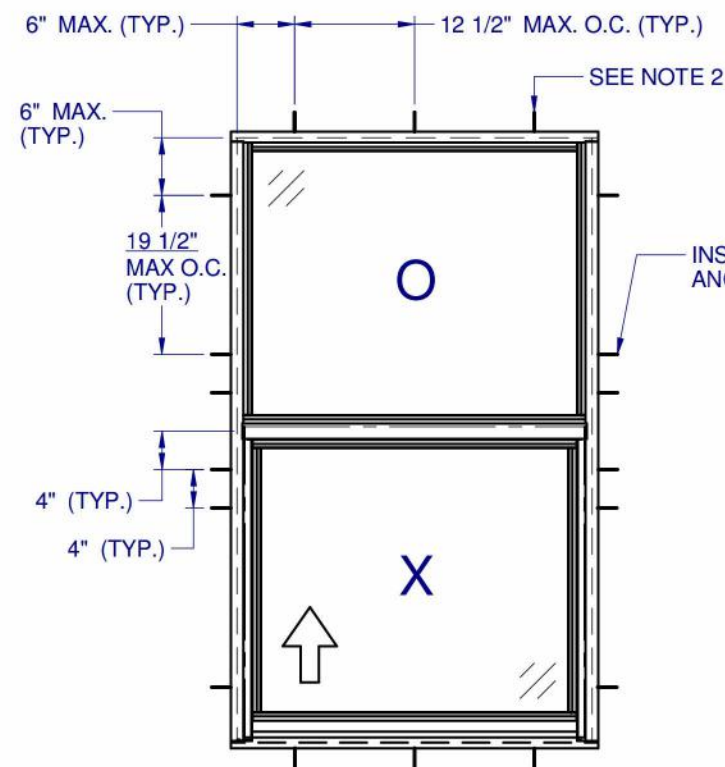


LUCAS A. TURNER, P.E.
FL PE # 58201
1239 JABARA AVE.
NORTH PORT, FL 34288
PH. 941-380-1574

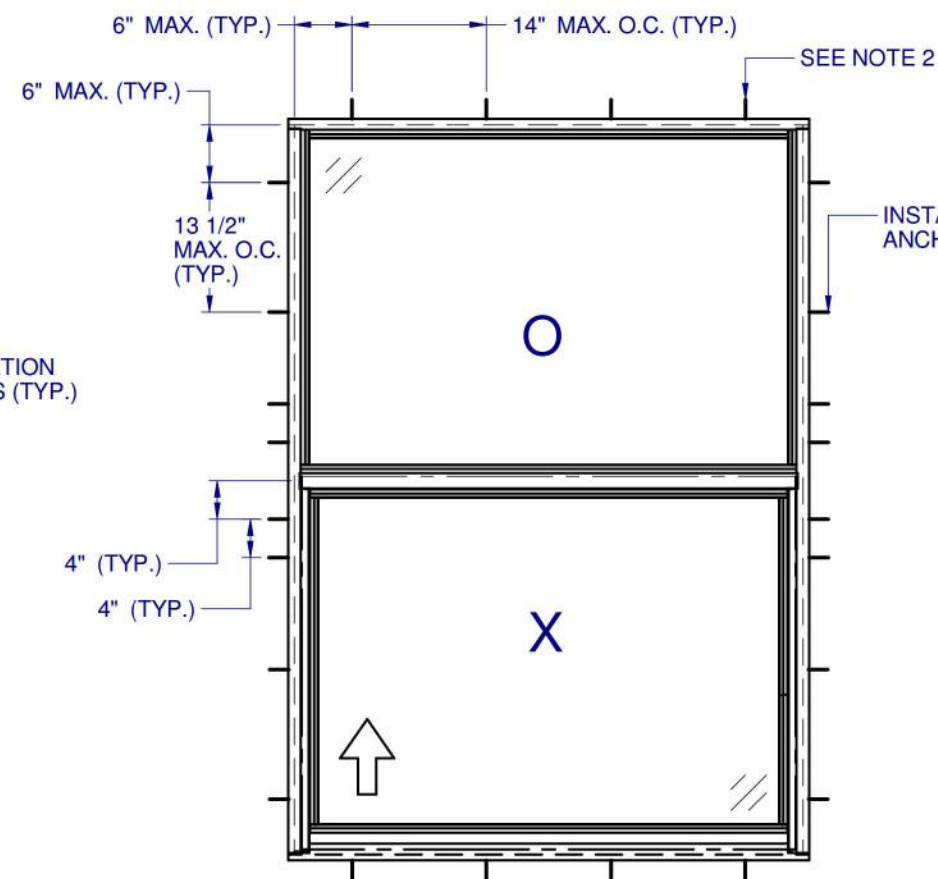
SHEET DESCRIPTION:

SECTION VIEWS

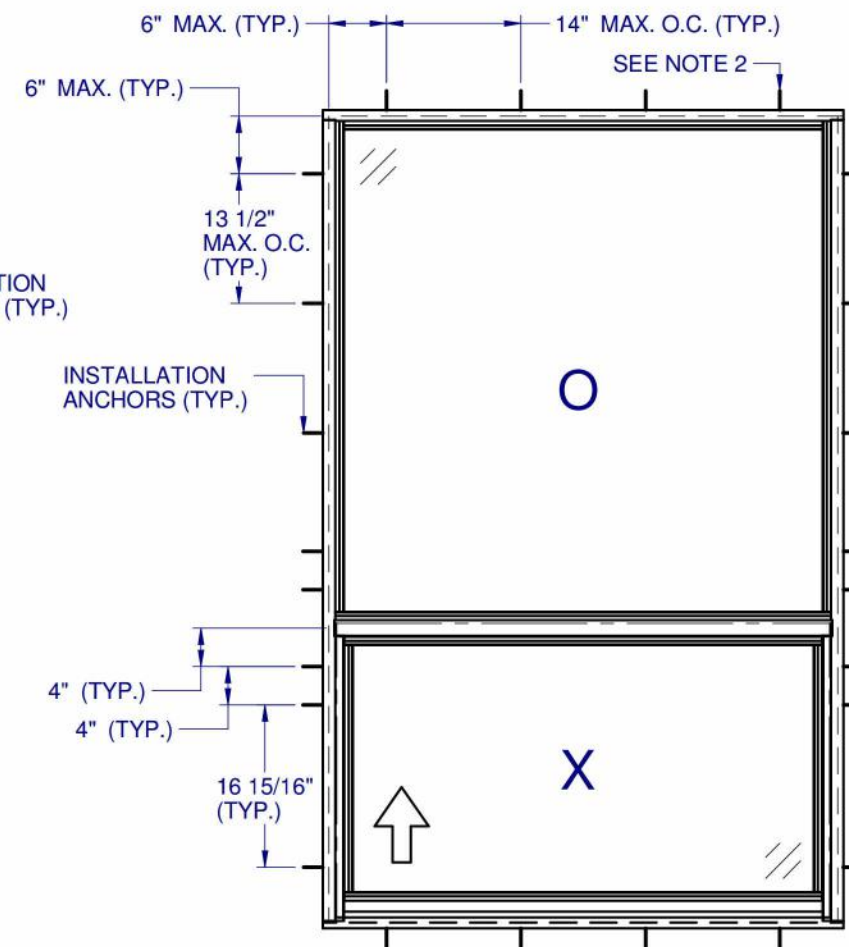
DRAWN BY:	DATE:
TEF	05/17/12
DWG #:	REV.:
CWS-726	B
SCALE:	SHEET
1:1.33	3 OF 6



ANCHOR LAYOUT
EQUAL SPLIT 37" X 63"



ANCHOR LAYOUT
EQUAL SPLIT 53.125" X 76"



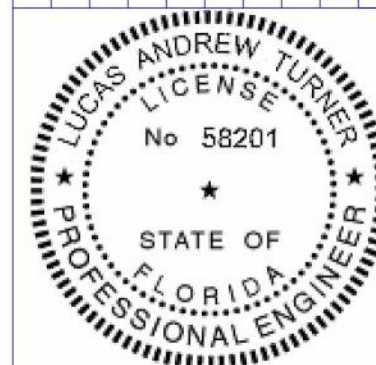
ANCHOR LAYOUT
ORIEL 53.125" X 84"

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. INSTALLATIONS TO SOLID CONCRETE OR GROUT-FILLED CMU MAY INCLUDE BUT DO NOT REQUIRE 1X WOOD BUCKS BETWEEN THE PRODUCT AND THE 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: 4" 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 TABLE 1, 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)

3100 ALUM. SINGLE HUNG IMPACT

B	SERIES NAME & ADD IG	EMK	10/15/15	
A	UPDATED PER 2014 FBC	EMK	03/13/15	
NO.:	DESCRIPTION:	BY:	DATE:	
				REVISIONS



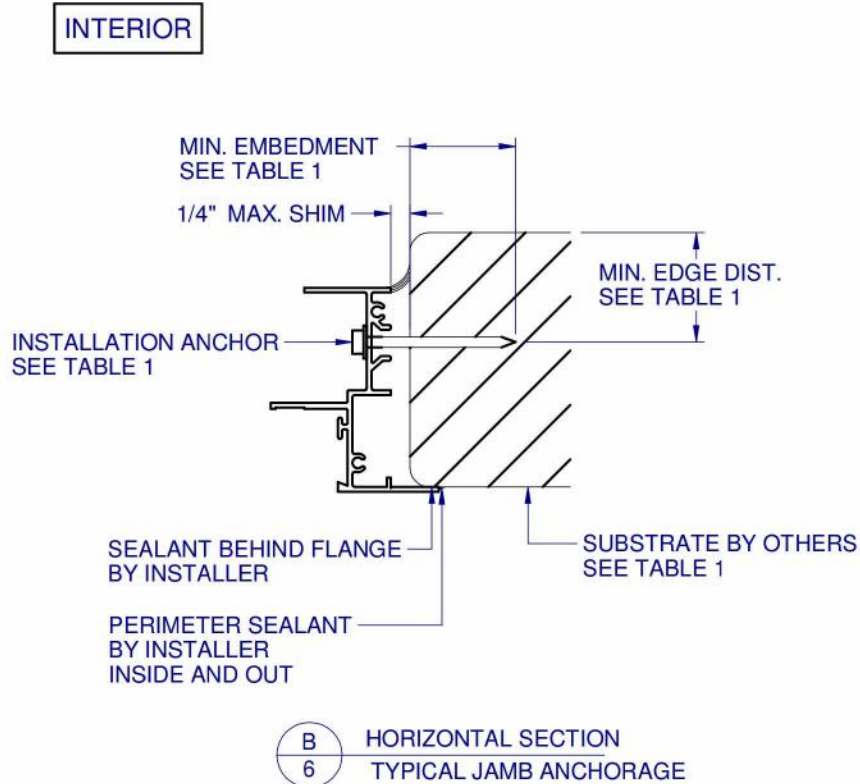
11/11/2015

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

SHEET DESCRIPTION:

ANCHOR SCHEDULE AND
NOTES

DRAWN BY: TEF	DATE: 05/17/12
DWG #: CWS-726	REV.: B
SCALE: 1:20	SHEET 5 OF 6



SUBSTRATE TYPE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DIST.
CONCRETE (2.0 KSI MIN.)	3/16" ITW TAPCON	1-1/2"	1-1/8"
HOLLOW OR GROUT-FILLED CMU (117 PCF MIN.)	3/16" ITW TAPCON	1"	4"
CONCRETE (2.85 KSI MIN.)	3/16" ELCO ULTRACON	1"	1"
GROUT-FILLED CMU (ASTM C-90)	3/16" ELCO ULTRACON	2-1/4"	2-1/2"
2X MIN. SOUTHERN PINE (G=0.55)	3/16" ITW TAPCON OR ELCO ULTRACON	1-3/8"	7/8"
2X MIN. SOUTHERN PINE (G=0.55)	#10 WOOD SCREW	1-3/8"	7/8"
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"
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"

Custom
WINDOW SYSTEMS

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

**3100 ALUM.
SINGLE HUNG
IMPACT**

[illegible]

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: TEF	DATE: 05/17/12
DWG #: CWS-726	REV.: B
SCALE: 1:2	SHEET 6 OF 6