



BUILDING AND NEIGHBORHOOD COMPLIANCE DEPARTMENT (BNC)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY, FLORIDA
PRODUCT CONTROL SECTION
11805 SW 26th Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/building

Eco Window Systems, LLC.
7955 NW 77 Avenue
Medley, FL 33166

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County BNC-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BNC reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "500 ECO-Guard" Aluminum OS Casement Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **W11-05**, titled Series "S-500 Alum. Outswing Casement Wdw. (L.M.I.)", sheets 1 through 6 of 6, dated 02/23/11 with revision "A" dated 04/27/11, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P. E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and Approval date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/ series and following statement: "Miami-Dade County Product Control Approved" unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1, evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P. E.**



J. Gascon
5/13/11

NOA No. 11-0309.06
Expiration Date: May 19, 2016
Approval Date: May 19, 2011
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **W11-05**, titled Series "S-500 Alum. Outswing Casement Wdw. (L.M.I.)", sheets 1 through 6 of 6, dated 02/23/11 with revision "A" dated 04/27/11, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P. E.

B. TESTS

1. Test reports on:
 - 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94along with marked-up drawings and installation diagram of casement window, prepared by Hurricane Engineering and Testing, Inc., Test Reports No.'s **HETI-10-3140, HETI-10-3141, HETI-10-3142, HETI-10-3143** and **HETI-10-3144**, dated 12/29-30/2010, all signed and sealed by Candido F. Font, P. E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2007, prepared by Al-Farooq Corporation, dated 03/01/11, signed and sealed by Javad Ahmad, P. E.
Complies with ASTM E1300-04

D. QUALITY ASSURANCE

1. Miami-Dade Building and Neighborhood Compliance Department (BNC).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **10-0922.09** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Butacite® PVB, Interlayer**" dated 12/24/10, expiring on 12/11/11.

F. STATEMENTS

1. Statement letter of no financial interest, conformance and compliance with the FBC-2007, dated 03/01/2011, signed and sealed by Javad Ahmad, P. E.
2. Laboratory addendum letter for Test Reports No.'s **HETI-10-3140, HETI-10-3141, HETI-10-3142, HETI-10-3143** and **HETI-10-3144** issued by Hurricane Engineering and Testing, Inc., dated 05/06/2011, signed and sealed by Candido F. Font, P. E.



Jaime D. Gascon, P.E.
Product Control Section Supervisor
NOA No. 11-0309.06
Expiration Date: May 19, 2016
Approval Date: May 19, 2011

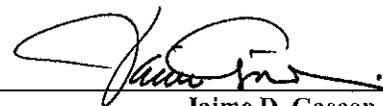
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS (CONTINUED)

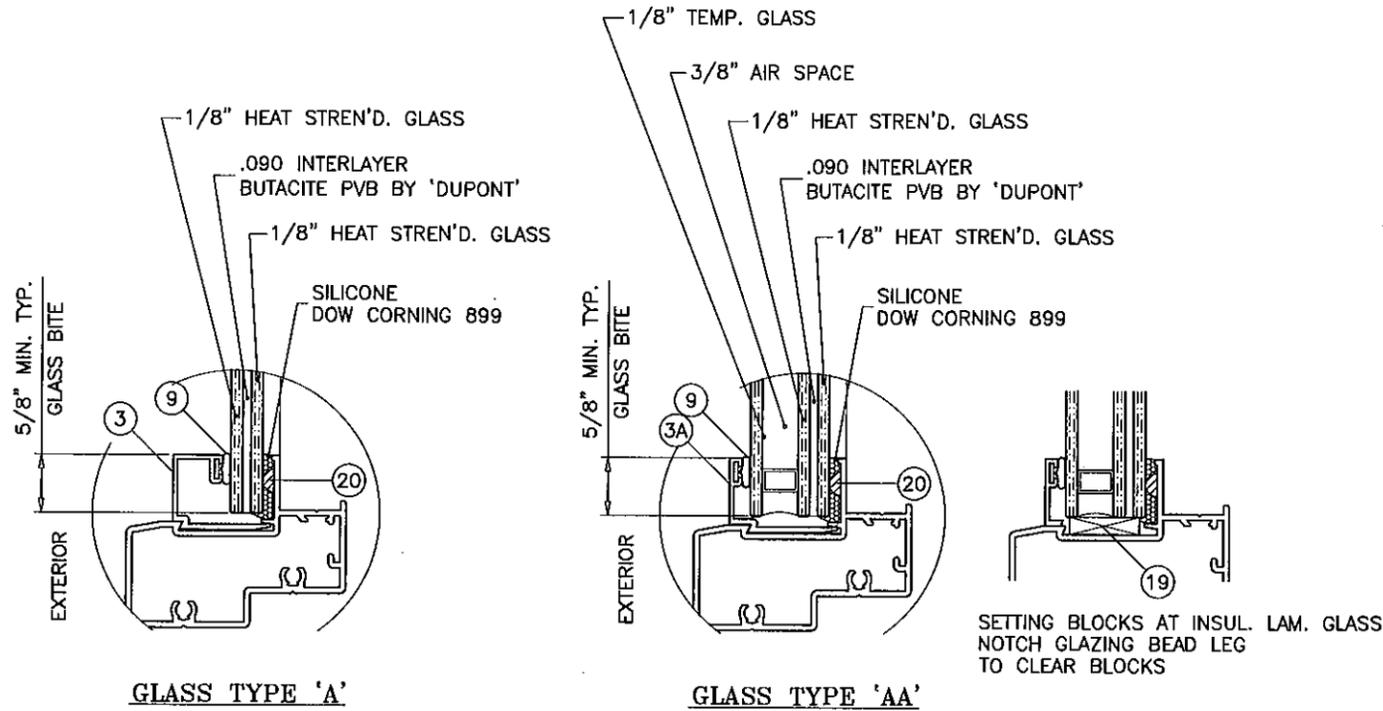
1. Laboratory compliance letter for Test Reports No.'s **HETI-10-3140**, **HETI-10-3141**, **HETI-10-3142**, **HETI-10-3143** and **HETI-10-3144** issued by Hurricane Engineering & Testing, Inc., dated 12/30/2010, signed and sealed by Candido F. Font, P. E.
2. Proposal No. **10-0642** issued by BCCO, dated 09/09/2010, signed by Manuel Perez, P. E.

G. OTHERS

1. None.



Jaime D. Gascon, P. E.
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GLAZING OPTIONS

**ECO-GUARD SERIES-500
ALUMINUM OUTSWING CASEMENT WINDOW**

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF CASMT/CASMT OR CASEMENT WITH OTHER WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING MIAMI-DADE COUNTY APPROVED MULLIONS IN BETWEEN. LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION APPROVAL WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2007 EDITION INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

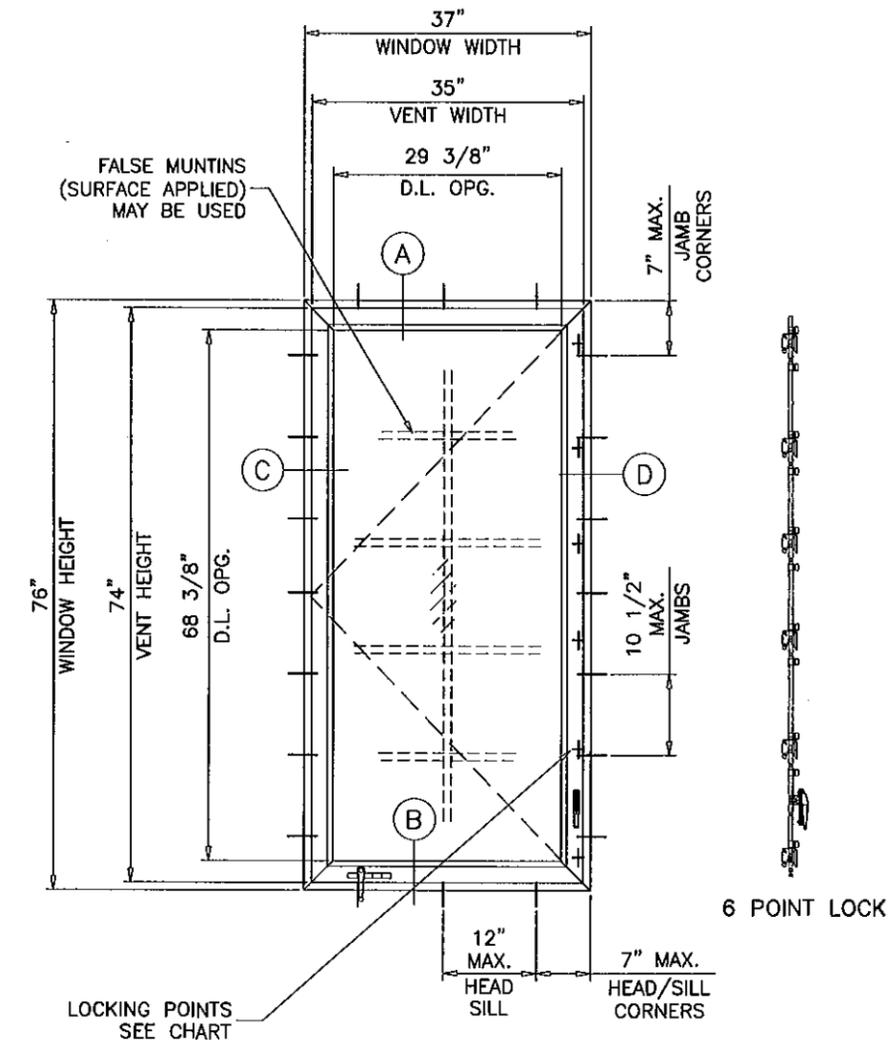
WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF 2007 FLORIDA BLDG. CODE SECTION 2003.8.4.



WDW. HEIGHT UPTO	NO. OF KEEPERS AT SASH
26"	2
38-3/8"	3
50-5/8"	4
63"	5
76"	6

MAXIMUM DESIGN LOAD RATING = + 70.0 PSF
(FOR SIZES SHOWN OR SMALLER) - 75.0 PSF

THESE WINDOWS ARE RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-04 (3 SEC. GUSTS) AND FLORIDA BUILDING COMMISSION DECLARATORY STATEMENT DCA05-DEC-219

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538
MAY 06 2011

Approved as complying with the Florida Building Code
Date: 05/19/2011
NCA# 11-0369.06
Miami Dade Product Control
By: [Signature]

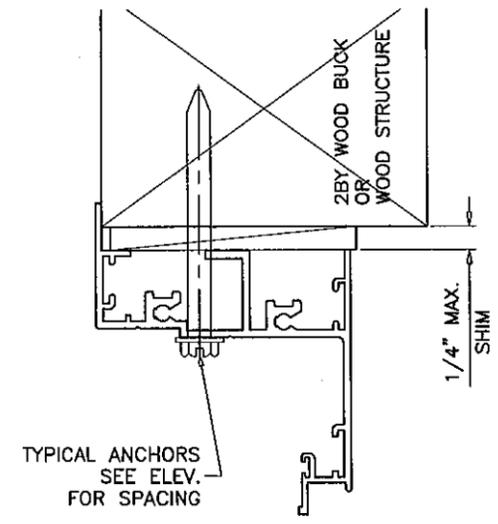
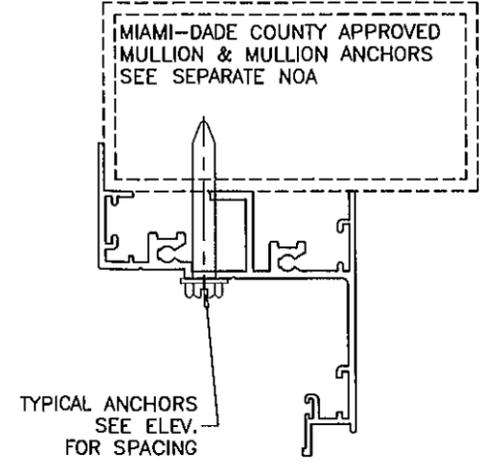
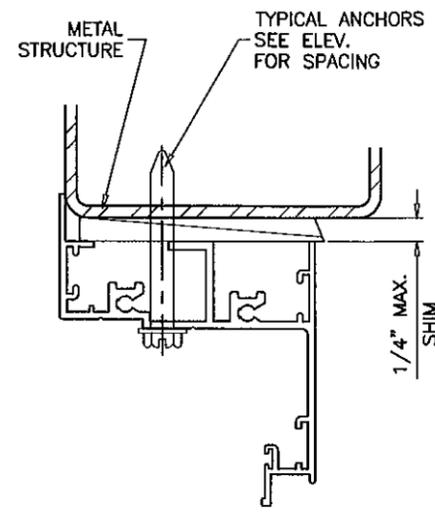
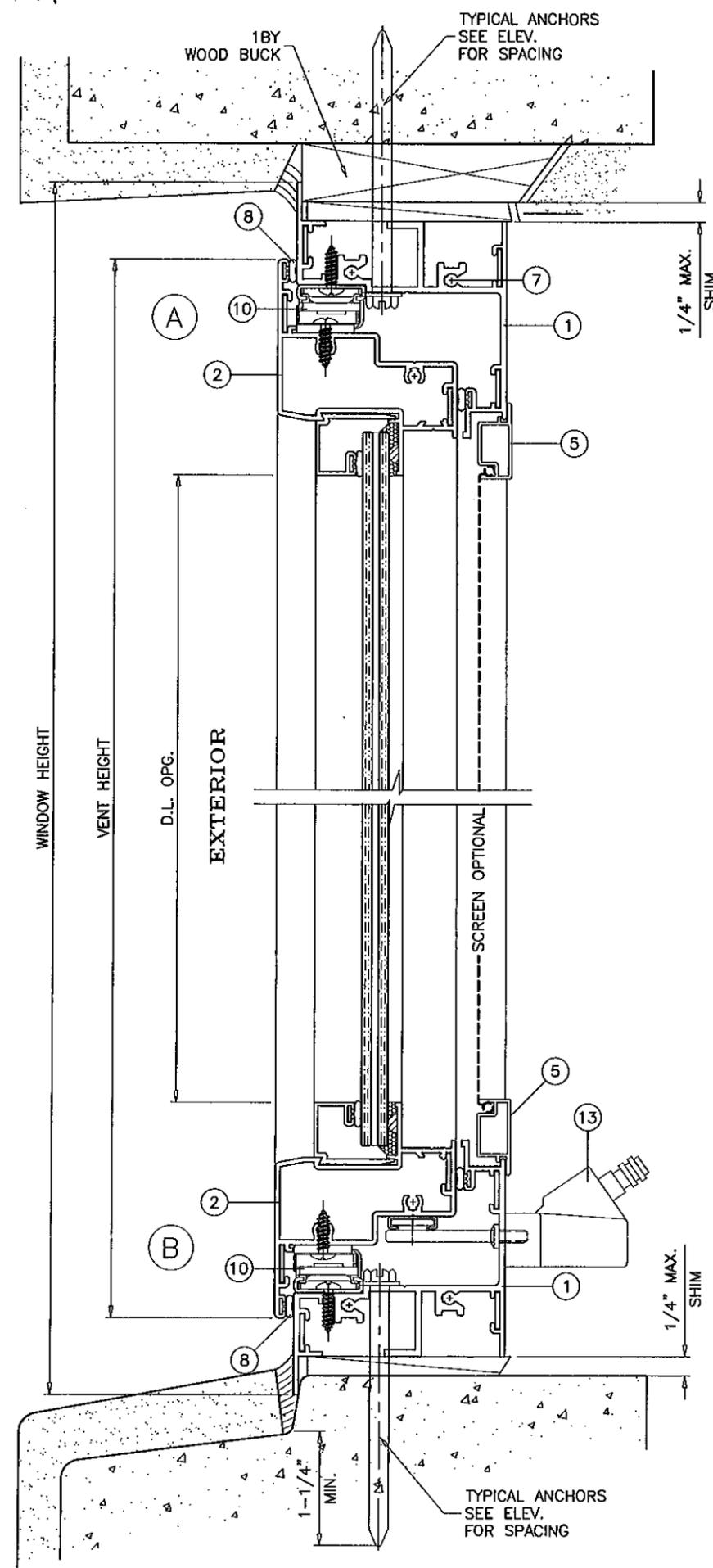
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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COMP-ANL\W11-05ECO

S-500 ALUM OUTSWING CASEMENT WDW. (L.M.I.)
ECO WINDOW SYSTEMS, LLC.
7955 NW 77th AVENUE
MEDLEY, FLORIDA, 33166
TEL (305) 882-1144 FAX (305) 885-5902

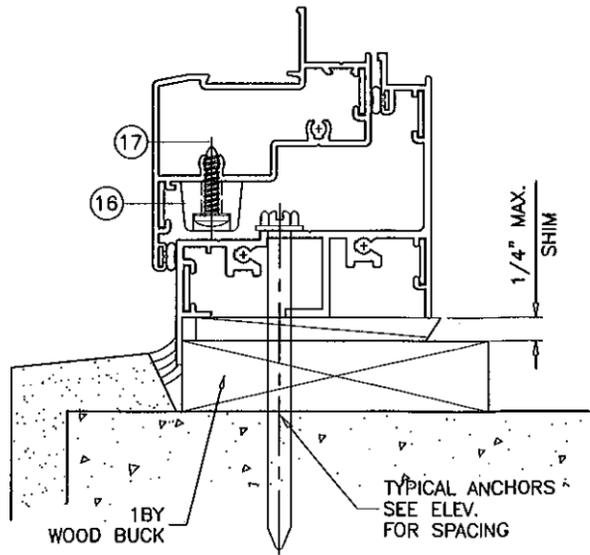
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date: 02-23-11
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dr. by: HAMID
chk. by:

drawing no.
W11-05
sheet 1 of 6



WOOD BUCKS AND METAL STRUCTURE NOT BY ECO WDW. MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.



TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" DIA. TAPCON BY 'ITW' (Fu=120 KSI, Fy=92 KSI)

1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-3/8" MIN. PENETRATION INTO WOOD

THRU 1BY BUCKS INTO CONC. OR MASONRY
1-1/4" MIN. EMBED INTO CONC. OR MASONRY

DIRECTLY INTO CONC. OR MASONRY
1-1/4" MIN. EMBED INTO CONC. OR MASONRY

#14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
INTO METAL STRUCTURES

STEEL : 1/8" THK. MIN. (Fy = 36 KSI MIN.)

ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)

(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

#12 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)

INTO MIAMI-DADE COUNTY APPROVED MULLIONS (MIN. THK. = 1/8")
(NO SHIM SPACE)

TYPICAL EDGE DISTANCE

INTO CONCRETE AND MASONRY = 2" MIN.

INTO WOOD STRUCTURE = 1" MIN.

INTO METAL STRUCTURE = 3/4" MIN.

CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.

C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

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Miami Dade Product Control
By *[Signature]*

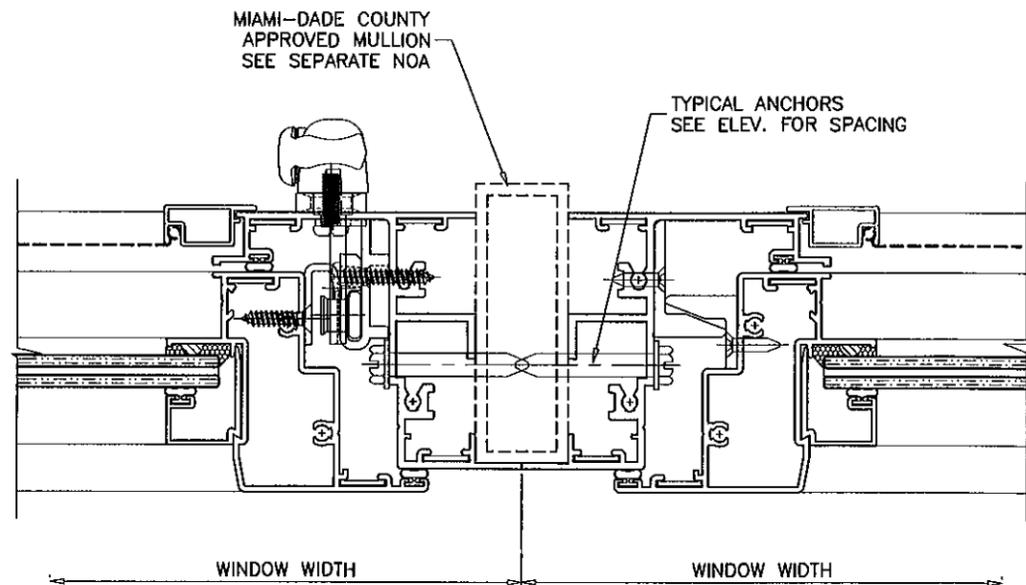
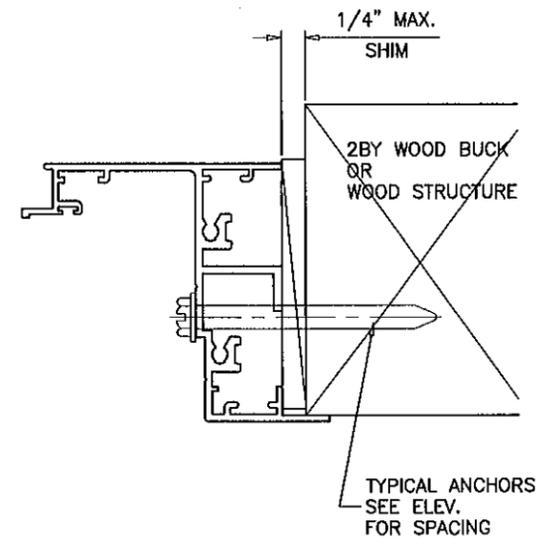
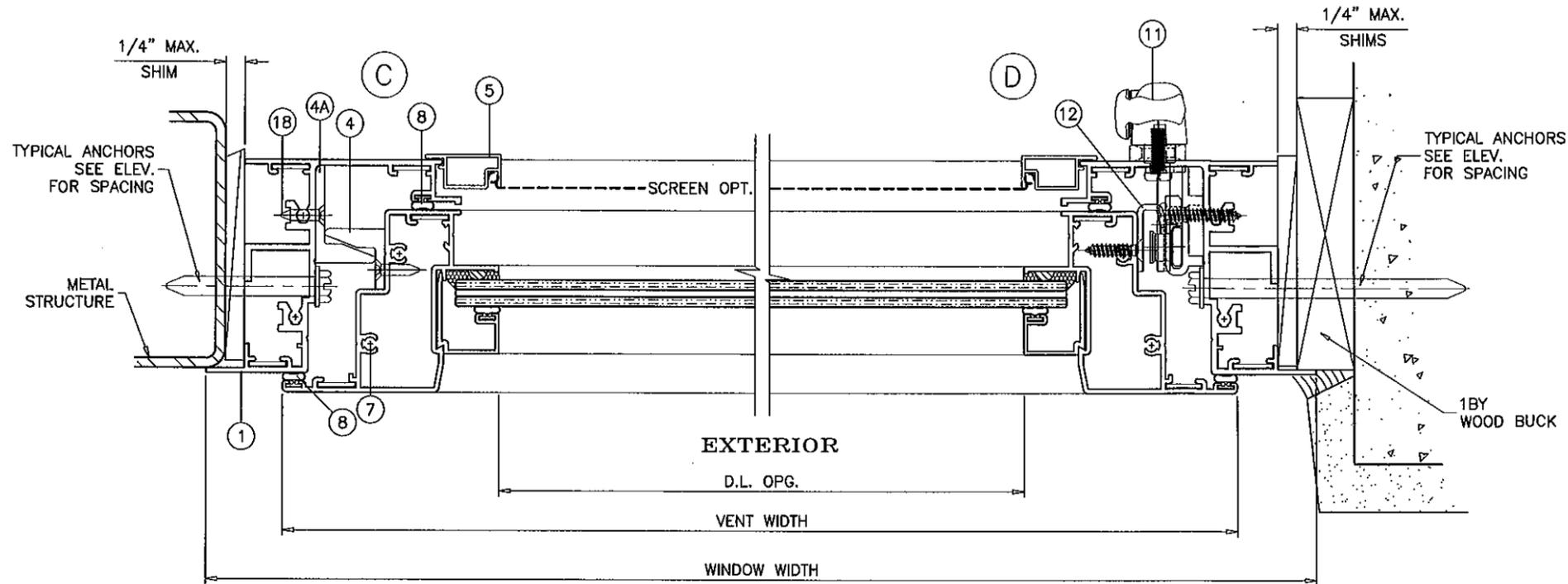
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drawing no.
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sheet 2 of 6



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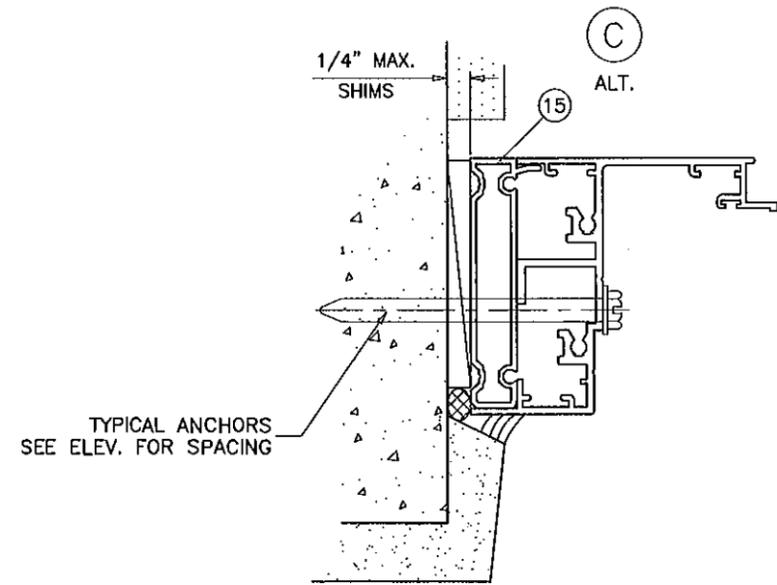
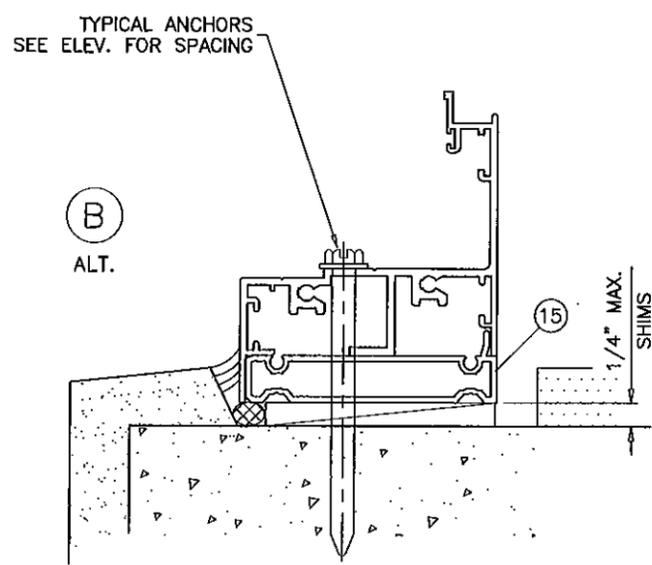
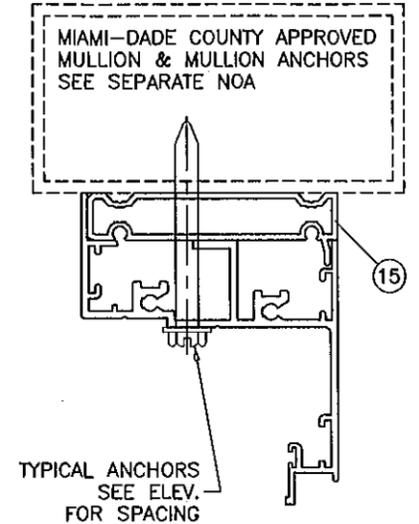
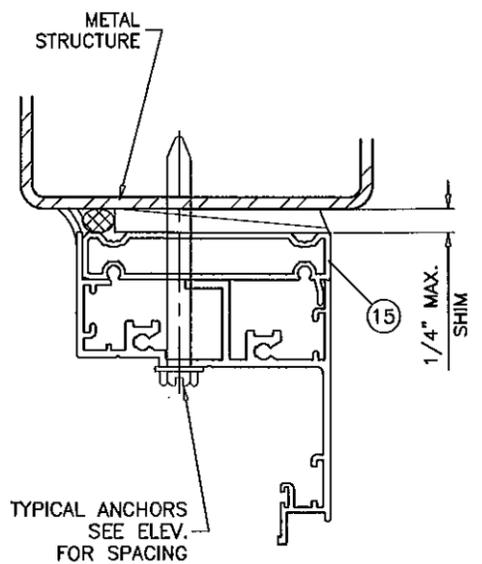
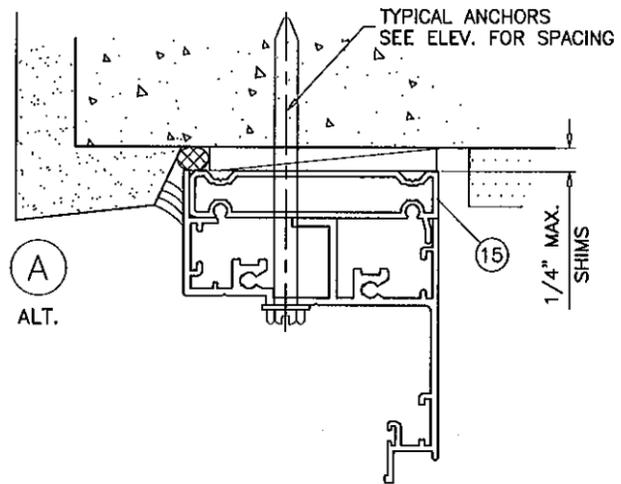
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W11-05
 sheet 3 of 6

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no	date
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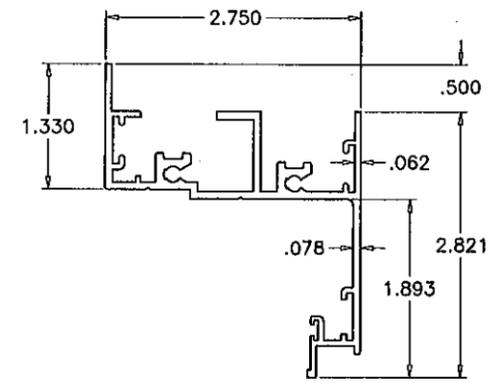
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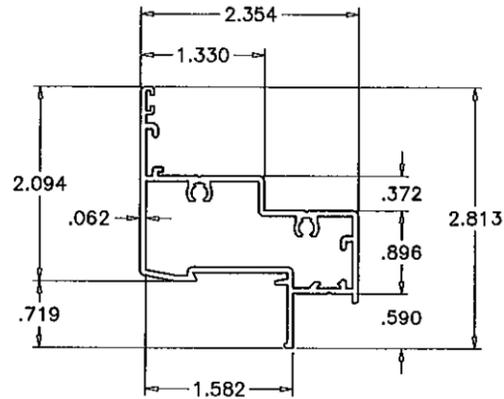
INSTALLATION DETAILS WITH FLUSH FRAME ADAPTER

Engr: JAVAD AHMAD
 CIVIL
 FLA. PE # 70592
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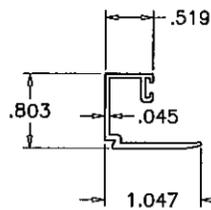
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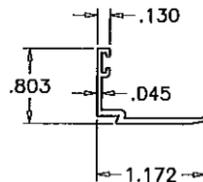
① FRAME HEAD/SILL/JAMB



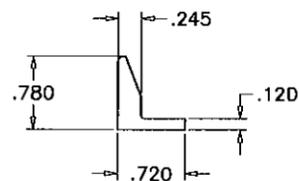
② VENT



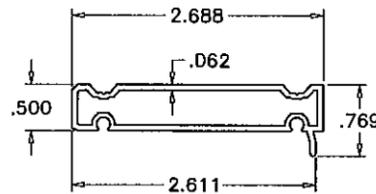
③ GLAZING BEAD (LAM. GLASS)



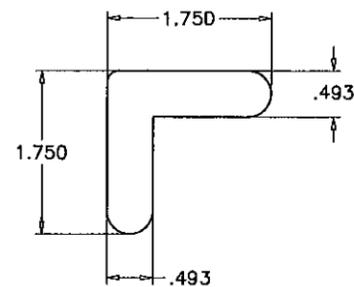
③A GLAZING BEAD (INSUL. LAM. GLASS)



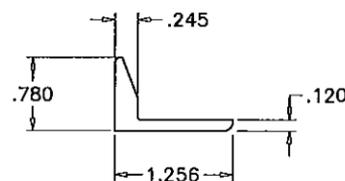
④ SNUBBER - VENT



⑮ FLUSH FRAME ADAPTER



⑭ CORNER KEY



④A SNUBBER - FRAME

ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E501	4	FRAME HEAD/SILL/JAMB	6063-T6	-
2	E502	4	VENT	6063-T6	-
3	FY108	AS REQD.	GLAZING BEAD (LAM. GLASS)	6063-T6	-
3A	E505	AS REQD.	GLAZING BEAD (INSUL. LAM. GLASS)	6063-T6	-
4	E508	AS REQD.	SNUBBER - VENT, FULL LENGTH	6063-T6	-
4A	E509	AS REQD.	SNUBBER - FRAME, FULL LENGTH	6063-T6	-
5	E506	OPTIONAL	SCREEN FRAME	6063-T5	-
7	#10 X 1-1/4"	AS REQD.	FRAME AND VENT ASSEMBLY SCREWS	-	H WH SMS
8	E203	AS REQD.	BULB WEATHERSTRIPPING, DUROMETER 65	SANTOPRENE	ULTRAFAB
9	E203	AS REQD.	GLAZING BEAD BULB, DUROMETER 65	SANTOPRENE	ULTRAFAB
10	35.12.00.400	2/ VENT	4 BAR HINGE, AT TOP AND BOTTOM	STEEL	TRUTH, INSTALLED WITH (2) #10 X 5/8" SDS
11	13096.92	1	MULTI POINT LOCK SYSTEM	ZAMAK	TRUTH
12	-	6/ VENT	KEEPER	STEEL	-
13	-	1/ VENT	ROTO OPERATOR	ZAMAK/STL.	TRUTH
14	PSJ40-SS	2/ CORNER	FRAME/VENT CORNER KEY	ST. STEEL	-
15	FY120	AS REQD.	FLUSH FRAME ADAPTER	6063-T6	OPTIONAL
16	-	3	ANTI SAG SKATE	NYLON	M&M PLASTICS
17	#10 X 1-1/4"	2/ SKATE	FH SDS SKATE SCREWS	-	-
18	#8 X 3/4"	AS REQD.	FH SMS SNUBBER SCREWS	-	IN PAIRS 2" APART, PAIRS SPACED AT 7-3/4" O.C.
19	-	2/ LITE	SETTING BLOCK, 3/16" X 3/4" X 4" LONG	NEOPRENE	AT 6" FROM EACH END, DUROMETER 65
20	FLB-50	-	GLASS SPACER - 1/8" HIGH	SILICONE	FRANK LOWE

SEALANT:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH SCHNEE-MOREHEAD SM5504 SEAM SEALER. PARIMETER CAULKING SICAFLEX 15LM ON EXTERIOR ONLY.

LOCKS:

MULTIPOINT LOCK SYSTEM #13096.92 BY 'TRUTH' AT FRAME JAMB
 LOCK OPERATOR #24.33.XX.004 AT 8-1/2" FROM SILL
 FASTENED TO JAMBS WITH (2) #10 X 5/8" SMS.
 LOCK BAR SECURED TO JAMB WITH LOCK GUIDES #33489.00.0001 SPACED AT 12-3/4" O.C. MAX.
 EACH GUIDE FASTENED WITH (2) #10 X 1" P PH SMS

STAINLESS STEEL KEEPERS #31964.92 AT VENT
 EACH FASTENED WITH (2) #10 X 5/8" P FH SMS
 SEE CHART ON SHEET 1 FOR QUANTITIES

HINGES:

4 BAR ST/ST HINGES #35.12.00.400 BY 'TRUTH'
 LOCATED AT TOP AND BOTTOM CORNERS
 FASTENED WITH (2) #10 X 5/8" P PH SELF DRILLING SCREWS

OPERATOR:

SINGLE ARM ROTO OPERATOR #52.13.012 BY 'TRUTH'
 LOCATED AT SILL END
 FASTENED WITH (6) #10 X 1" P PH SMS
 OPERATOR TRACK #30175 AT BOTTOM RAIL
 FASTENED WITH (2) #10 X 1" P PH SMS

ANTI-SAG SKATES:

NYLON ANTI-SAG SKATES BY 'M&M PLASTICS'
 (2) AT LOCK STILE AT 6-3/4" FROM TOP/BOTTOM RAILS
 (1) AT BOTTOM RAIL AT 4" FROM LOCK STILE
 EACH FASTENED WITH (2) #10 X 1-1/4" P FH SDS.

Engr. JAVAD AHMAD
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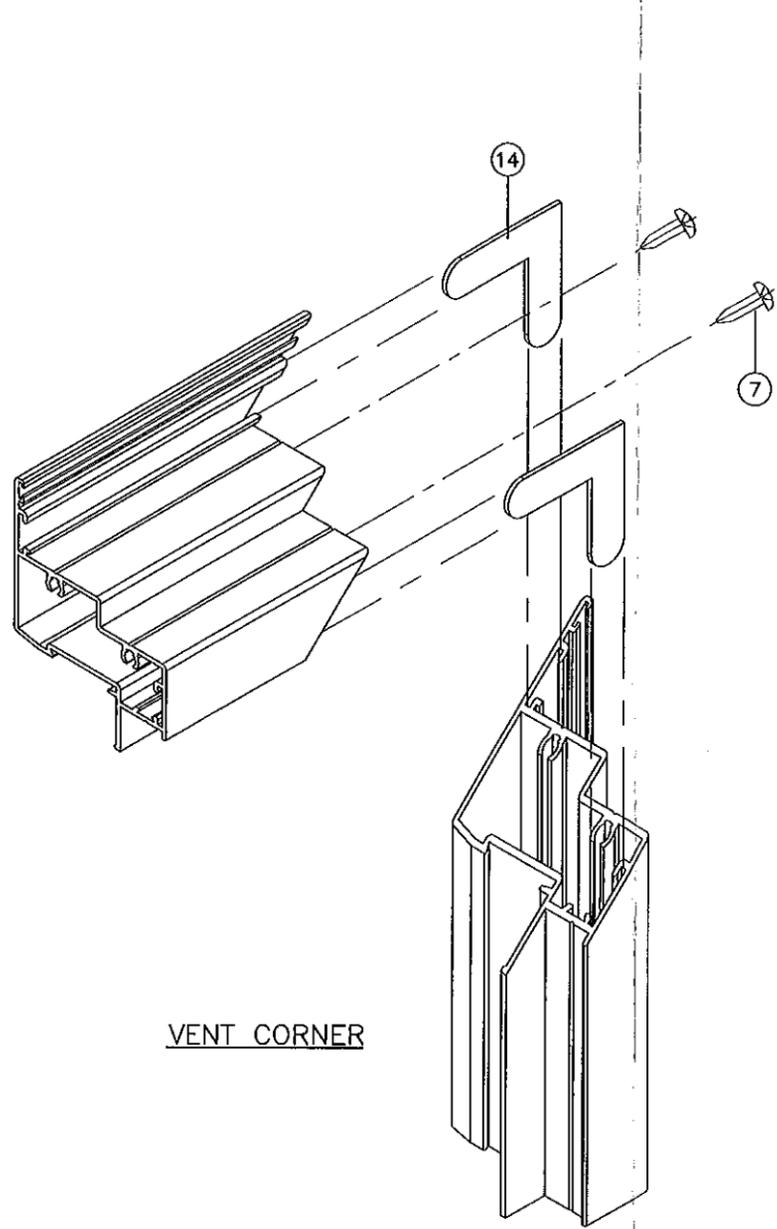
afC
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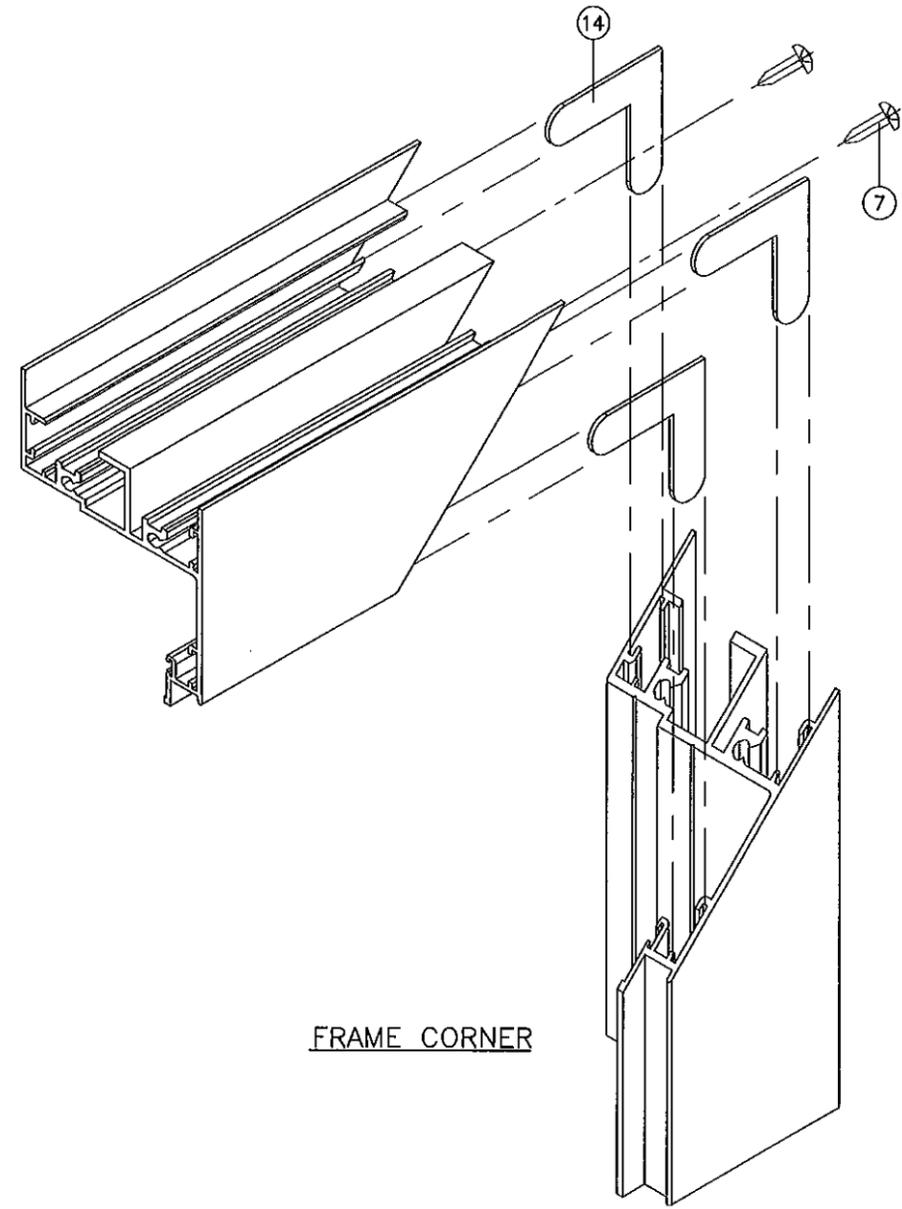
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date: 02-23-11
 scale: 1/2" = 1"
 dr. by: HAMID
 chk. by:

drawing no.
W11-05
 sheet 5 of 6



VENT CORNER



FRAME CORNER

Engr: JAVAD AHMAD
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afc

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 TEL. (305) 264-8100 FAX. (305) 262-6978
 COMP-ANL\W11-05ECO

S-500 ALUM OUTSWING CASEMENT WDW. (L.M.I.)

ECO WINDOW SYSTEMS, LLC.
 7955 NW 77th. AVENUE
 MEDLEY, FLORIDA, 33166
 TEL. (305) 882-1144 FAX (305) 885-5902

no.	date	by	description
A	04.27.11		NO CHANGE THIS SHEET

date: 02-23-11
 scale: 1/2" = 1"
 dr. by: HAMID
 chk. by:

drawing no.
W11-05
 sheet 6 of 6