



**BUILDING CODE COMPLIANCE OFFICE (BCCO)  
PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA  
METRO-DADE FLAGLER BUILDING  
140 WEST FLAGLER STREET, SUITE 1603  
MIAMI, FLORIDA 33130-1563  
(305) 375-2901 FAX (305) 375-2908**

**NOTICE OF ACCEPTANCE (NOA)**

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**YKK AP America  
332 Firetower Road  
Dublin, GA 31021**

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) 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 Division (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. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division 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 High Velocity Hurricane Zone of the Florida Building Code.

**DESCRIPTION: Series "YOW-200H" Aluminum Casement Window**

**APPROVAL DOCUMENT:** Drawing No. **W02-70**, titled "YOW-200 Alum Casement Window (L.M.I.)", sheets 1 through 6 of 6, prepared by Al Farooq Corporation, dated 8/11/02, signed and sealed by Humayoun Farooq, P.E., bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

**MISSILE IMPACT RATING: Large and Small Missile Impact**

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state 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 as well as approval document mentioned above.

The submitted documentation was reviewed by **Theodore Berman, P.E.**



**NOA No 02-1009.14  
Expiration Date: December 19, 2007  
Approval Date: December 19, 2002  
Page 1**

YKK AP America

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

(For File ONLY. Not part of NOA)

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **W02-70**, titled "YOW-200 Alum Casement Window (L.M.I.)", sheets 1 through 6 of 6, prepared by Al Farooq Corporation, dated 8/11/02, signed and sealed by Humayoun Farooq, 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 3603.2 (b) and TAS 202-94  
along with installation diagram of an aluminum casement window prepared by Hurricane Test Laboratory, test report No. **HTL-0231-0118-02**, dated 5/14/02, signed and sealed by Vinu Abraham, P.E

**C. CALCULATIONS**

1. Anchor Calculations, dated 8/7/02, prepared by Al Farooq Corporation, signed and sealed by Al Farooq, P.E.

**D. MATERIAL CERTIFICATIONS**

1. Notice of Proposed Action No. **00-0822.03**, issued to Solutia, Inc. for their Saflex HP, dated 10/19/00, expiring on 4/14/03.

**E. STATEMENTS**

1. Statement letter of conformance, dated 8/19/02, signed and sealed by Humayoun Farooq, P.E.
2. Statement letter of no financial interest, dated 8/19/02, signed and sealed by Humayoun Farooq, P.E.
3. Laboratory compliance letter for Test Report no. **HTL-0231-0118-02**, issued by Hurricane Test Laboratory, Inc., dated 5/14/02, signed and sealed by Vinu Abraham, P.E.

**F. OTHER**

1. Letter from Pistorino & Alam Consulting Engineers, Inc.

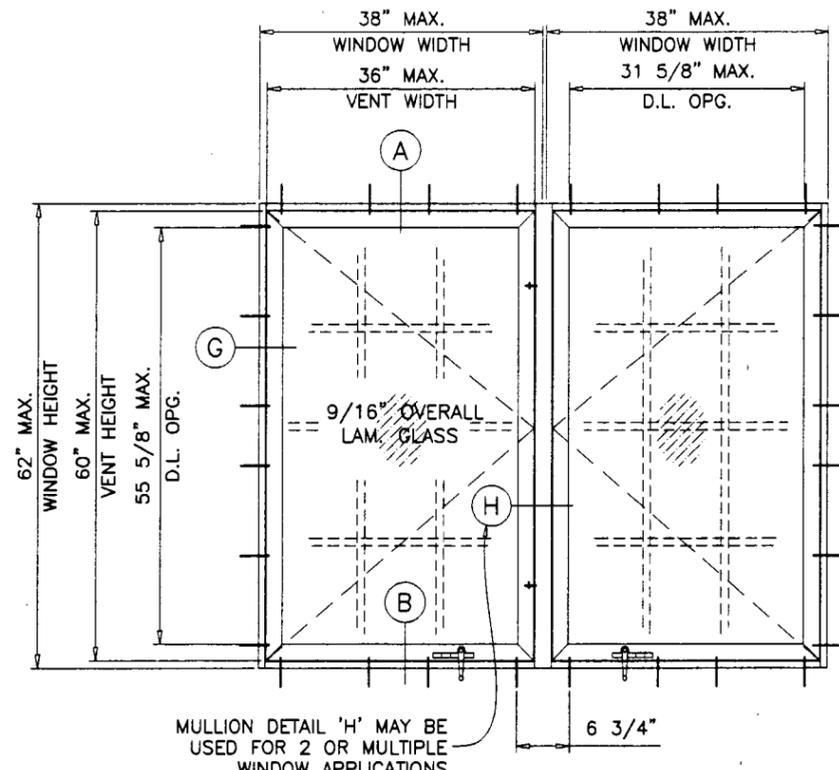
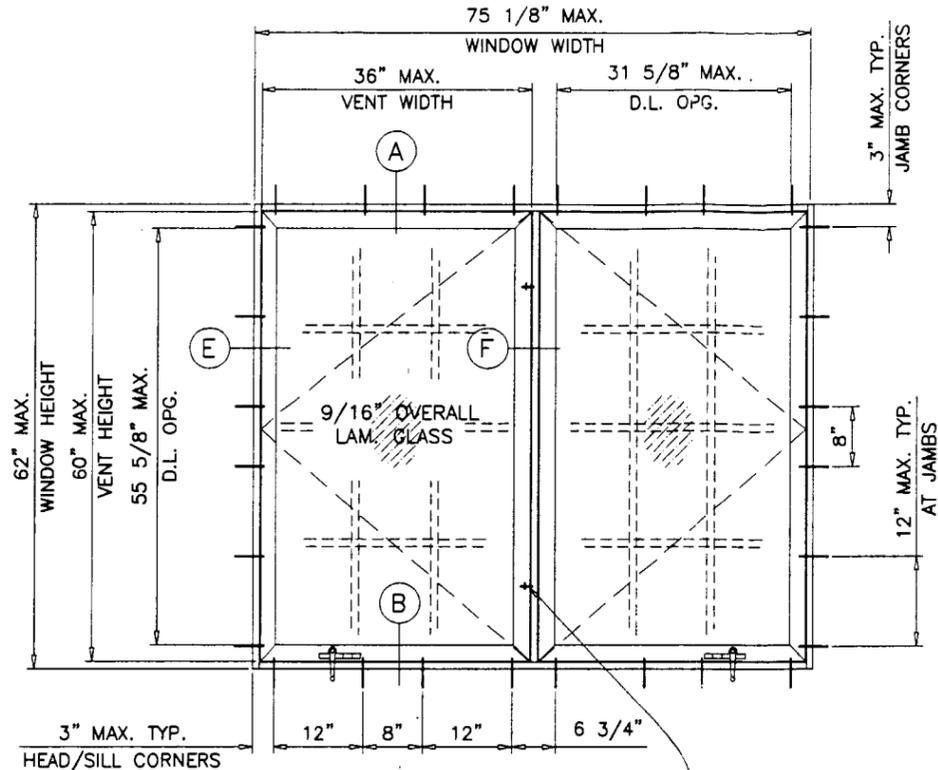
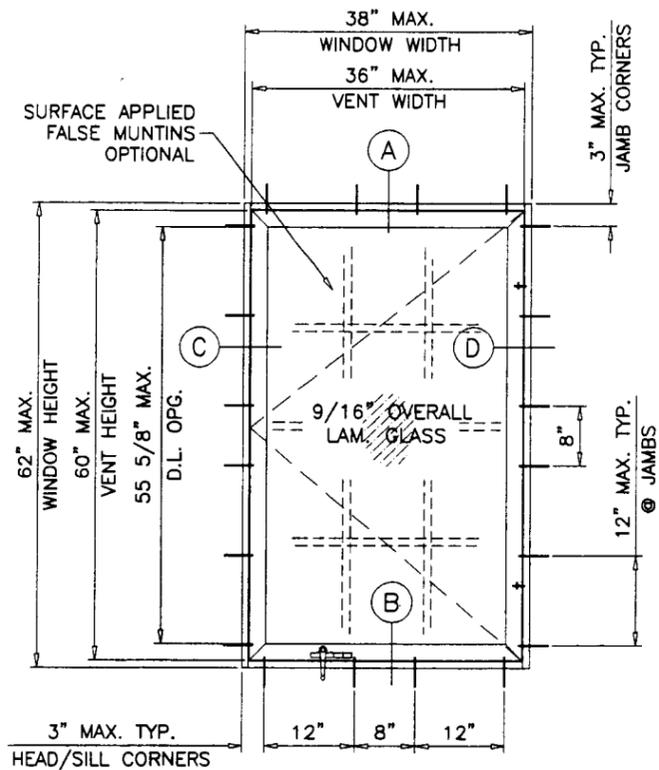
  
Theodore Berman, P.E.

Deputy Director, Product Control Division

NOA No 02-1009.14

Expiration Date: December 19, 2007

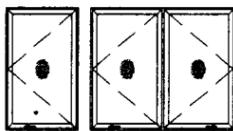
Approval Date: December 19, 2002



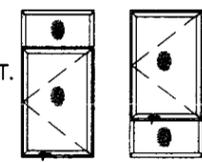
MAXIMUM DESIGN LOAD RATING = + 65.0 PSF  
(FOR SIZES SHOWN OR SMALLER) - 65.0 PSF

WINDOWS GLAZED WITH LAMINATED GLASS RATED FOR LARGE MISSILE IMPACT AND DO NOT REQUIRE SHUTTERS.

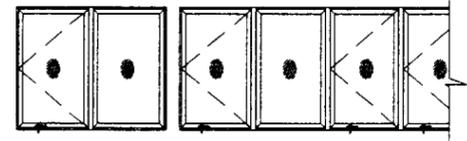
APPROVAL APPLIES TO SINGLE VENT WINDOWS OR DUAL VENT WINDOWS USING INTEGRAL IMPOST.



ALSO TOP AND BOTTOM COMBINATIONS OF FIXED AND CASEMENT WINDOWS USING INTEGRAL IMPOST.



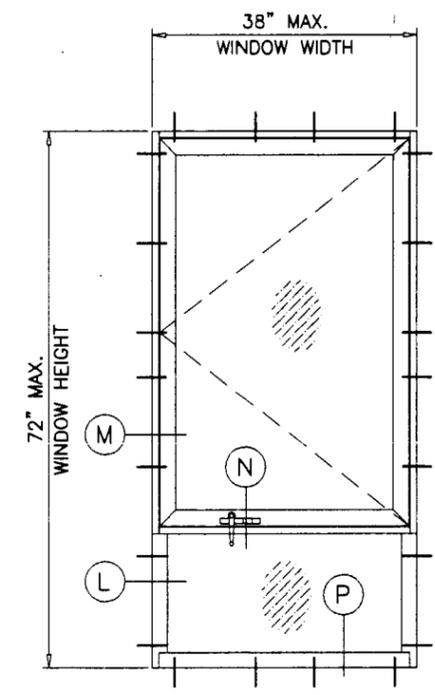
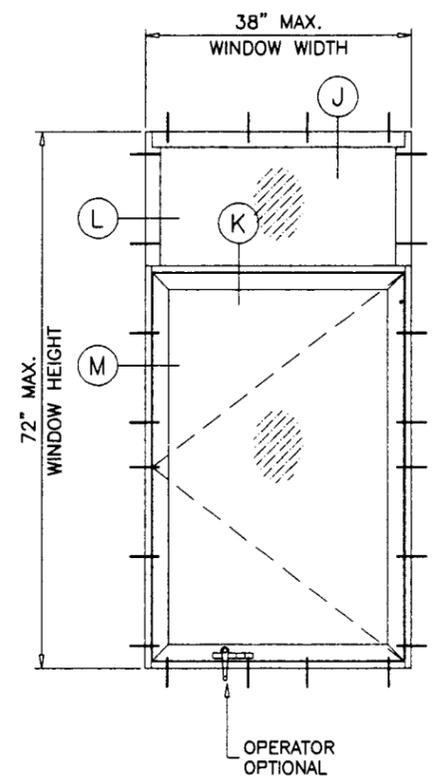
ALSO TO SIDE BY SIDE COMBINATIONS OF CASEMENT/FIXED, CASEMENT/CASEMENT OR WITH OTHER WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING APPROVED MULLIONS.



LATCHES LOCATED AT 7" FROM TOP AND BOTTOM OF VENT FOR WINDOWS UPTO 31" HT. USE ONE LATCH AT MIDSPAN OF VENT SIDE

MULLION DETAIL 'H' MAY BE USED FOR 2 OR MULTIPLE WINDOW APPLICATIONS

TYPICAL ELEVATIONS



THIS PRODUCT IS DESIGNED TO COMPLY WITH THE HIGH VELOCITY HURRICANE ZONE OF THE 2001 FLORIDA BUILDING CODE. ALSO FOR WIND LOADS AS PER ASCE 7 USING CORRESPONDING LOADS.

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

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHOR 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.

Engr: DR. HJ MAYOUN FAROOQ  
STRUCTURES  
FLA. PE # 16557

SEP 25 2002

Approved as complying with the Florida Building Code  
Date 12/19/02  
NOA# 02-1009.14  
Miami Dade Product Control  
By *Glenn Berman*

**AL-FAROOQ CORPORATION**  
ENGINEERS, PLANNERS & PRODUCT DESIGN  
1235 SW 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\W02-70YKK

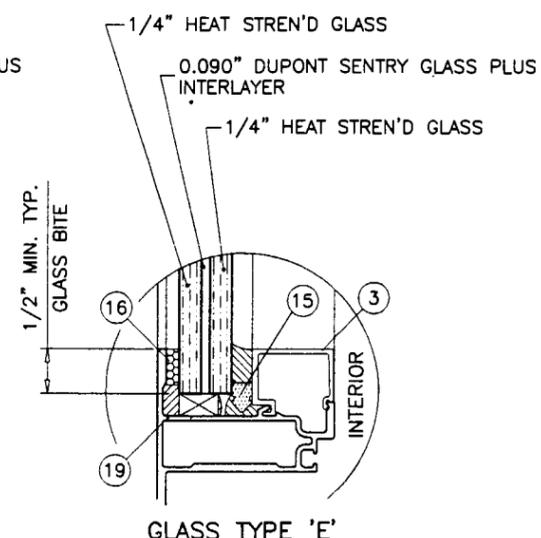
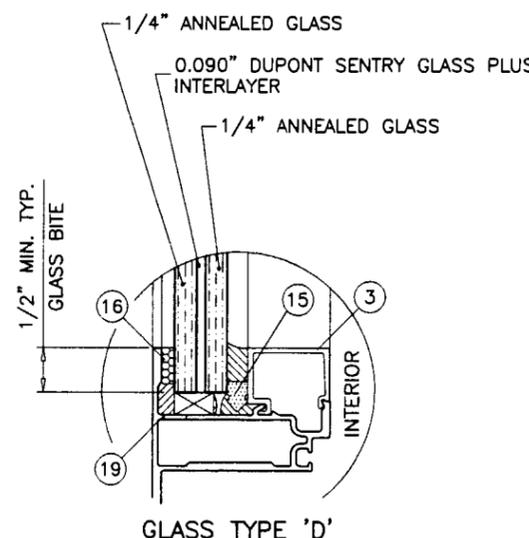
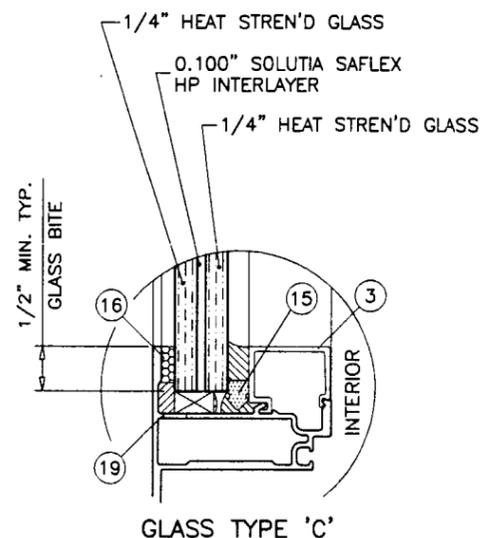
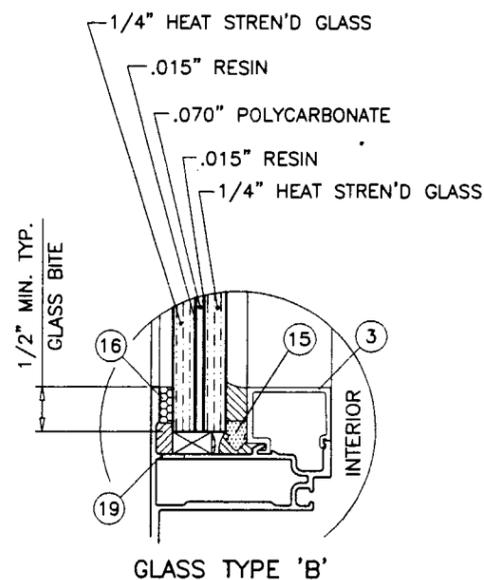
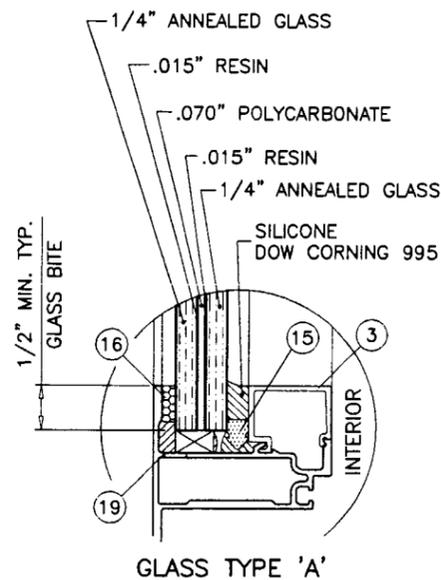
**YKK AP AMERICA INC.**  
5630 GWALTNEY DRIVE  
ATLANTA, GA. 30336  
TEL(404) 629-3800 FAX(404) 629-3810

no	date	description

revisions: no date by description

date: 08-11-02 scale: 1/2" = 1" dr. by: HAMID chk. by: *Glenn Berman*

drawing no. **W02-70**  
sheet 1 of 6



9/16" OVERALL LAMINATED GLASS  
 LARGE MISSILE IMPACT RESISTANT

GLAZING OPTIONS

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" TAPCONS

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

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

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

1/4" DIA. ELCO DRILLEFLEX OR EQUIV.

INTO STEEL OR ALUMINUM MULLIONS  
 (NO SHIM SPACE)

INTO METAL STRUCTURES (1/8" MIN. THICKNESS)  
 (1/4" MAX. SHIM SPACE)

SEALANTS:

FRAME CORNERS EXTERIOR SEAMS SEALED WITH SILICONE  
 VENT AND FRAME CORNERS SEALED WITH SEALANT.

WEEP HOLES:

W1 = 1/4" X 1" WEEP SLOT AT CENTERLINE.

W2 = 1/4" DIA. WEEP HOLES AT 4" FROM EACH CORNER

W3 = 1/4" DIA. WEEP HOLES AT 5" FROM EACH CORNER

Engr: DR. HUMAYOON FAROOQ  
 STRUCTURES  
 FLA. PE # 16557

SEP 25 2002

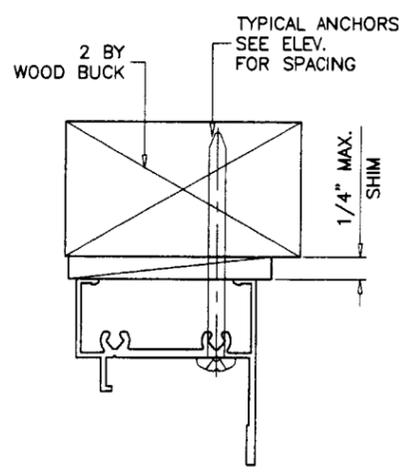
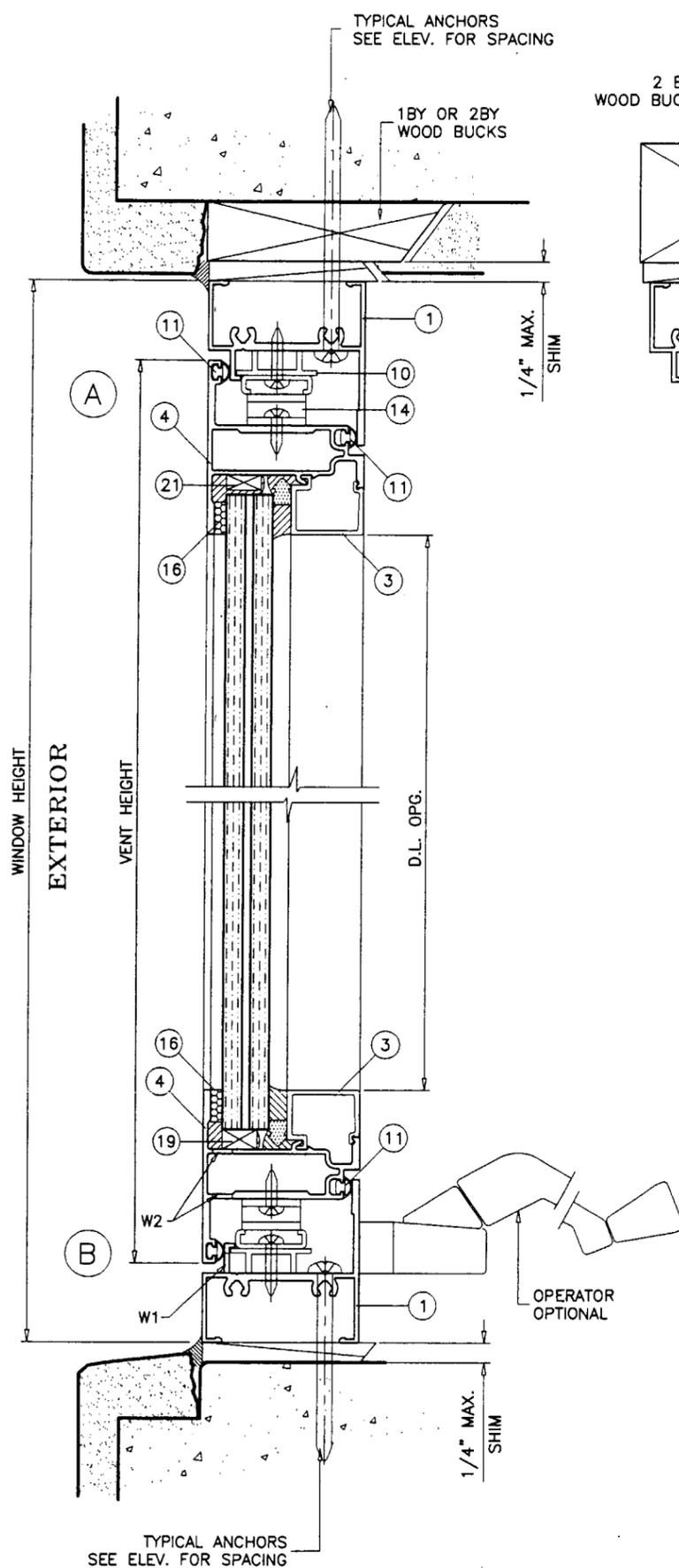
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 Date 12/19/02  
 NOA# 02-1009-14  
 Miami Dade Product Control  
 Division  
 By: *Glenn Beaman*

*afsc*  
**AL-FAROOQ CORPORATION**  
 ENGINEERS, PLANNERS & PRODUCT DESIGN  
 1235 SW 87 AVE  
 MIAMI, FLORIDA 33174  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
 COMP-ANL\W02-70YKK

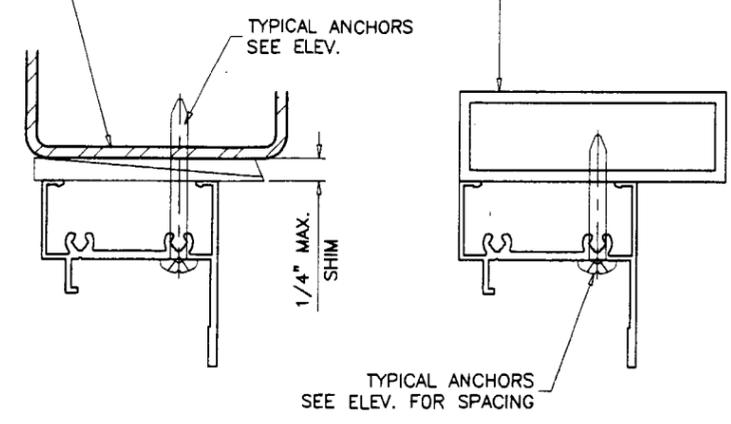
YOW-200 ALUM CASEMENT WINDOW (L.M.I.)  
**YKK AP AMERICA INC.**  
 5630 GWALTNEY DRIVE  
 ATLANTA, GA. 30336  
 TEL(404) 629-3800 FAX(404) 629-3810

no	date	by	description

date: 08-11-02  
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 dr. by: HAMID  
 chk. by:  
 drawing no.  
**W02-70**  
 sheet 2 of 6

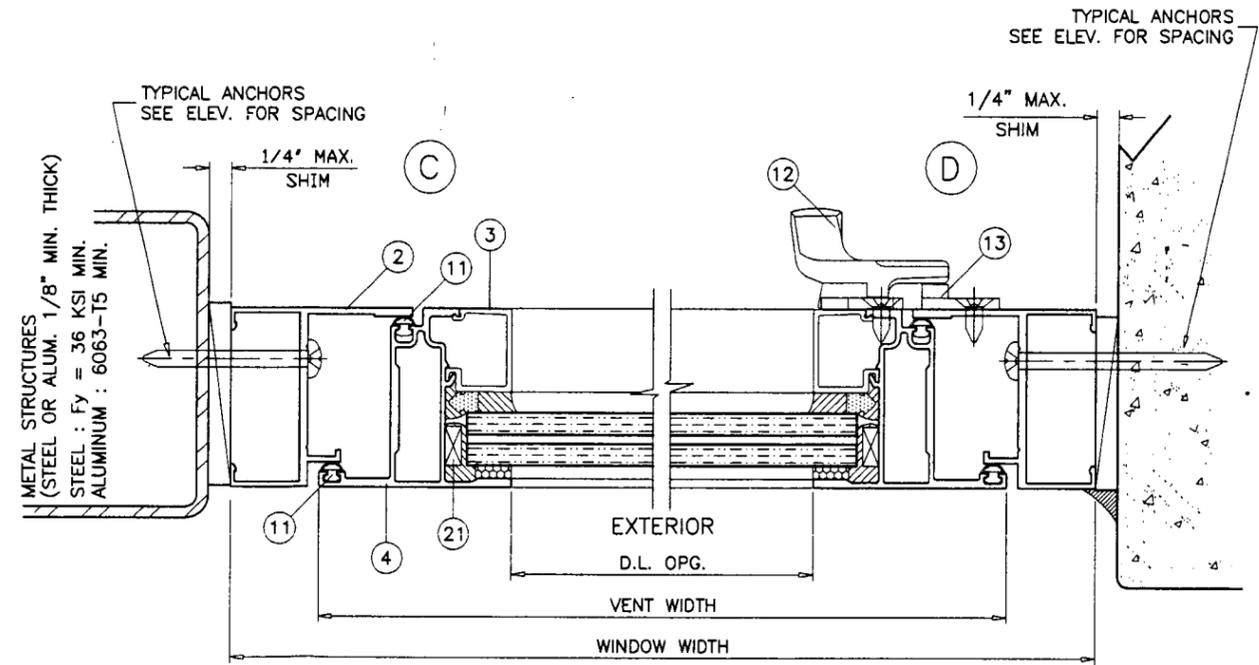


METAL STRUCTURES  
(STEEL OR ALUM. 1/8" MIN. THICK)  
STEEL :  $F_y = 36$  KSI MIN.  
ALUMINUM : 6063-T5 MIN.



DADE COUNTY  
APPROVED MULLION  
& MULLION ANCHORS

WOOD BUCKS NOT BY YKK AMERICA INC. MUST  
SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND  
TRANSFER THEM TO THE BUILDING STRUCTURE.



SINGLE VENT WINDOWS

Engr: DR. HUMAYOUN FAROOQ  
STRUCTURES  
FLA. PE # 16557

SEP 25 2002

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NOA# 02-1009.14  
Miami Dade Product Control  
Division  
By: *George Bernier*

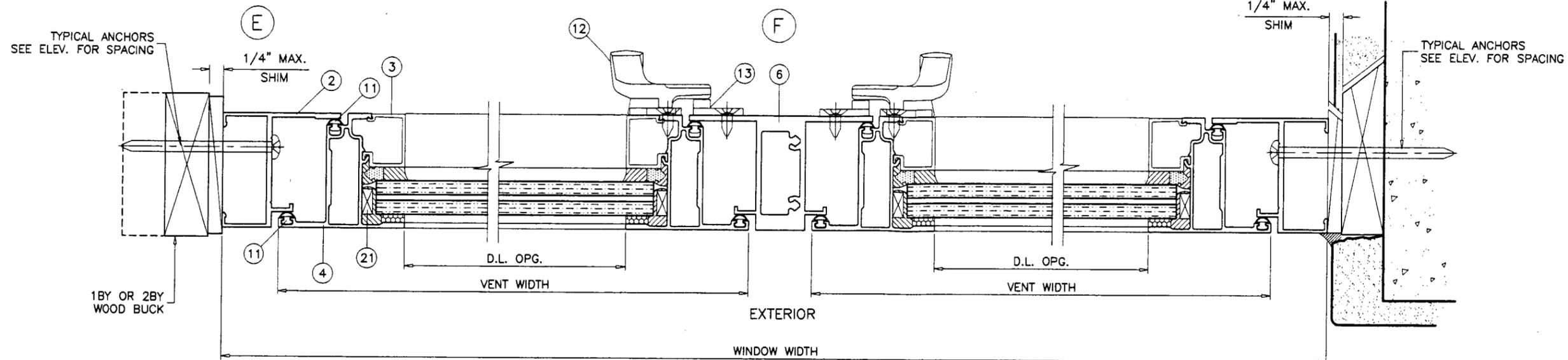
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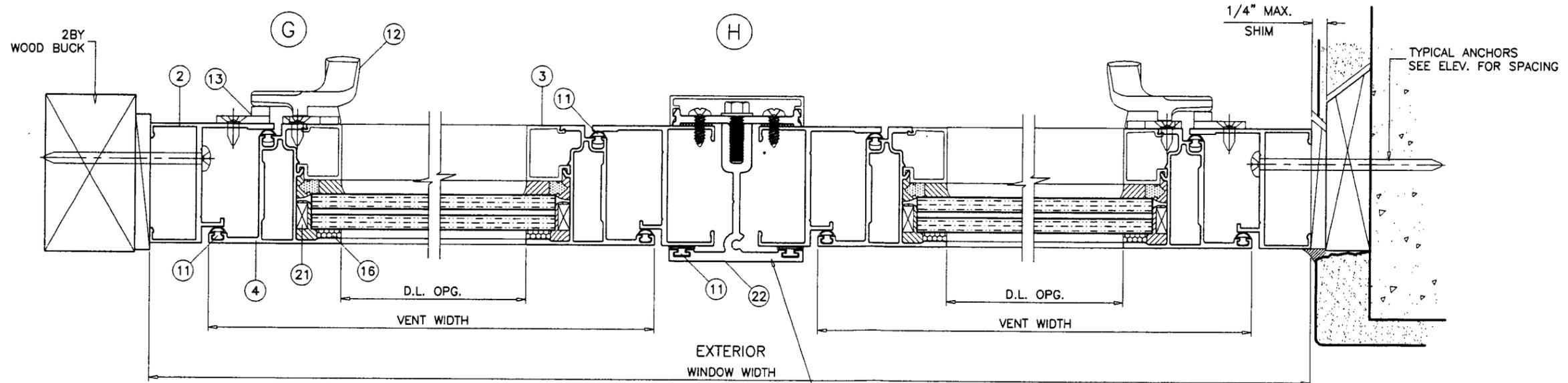
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dr. by: HAMID  
chk. by:  
drawing no.  
**W02-70**  
sheet 3 of 6

COMP-ANL\W02-70YKK



DUAL VENT WINDOWS



SEE SEPARATE NOA FOR MULLION

Engr: DR. HUMAYGUN FAROOQ  
STRUCTURES  
FLA. PE # 16557

SEP 25 2002

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Florida Building Code  
Date 12/19/02  
NOA# 02-1009.14  
Miami Dade Product Control  
Divis  
By *Glenn Hamon*

**afc**

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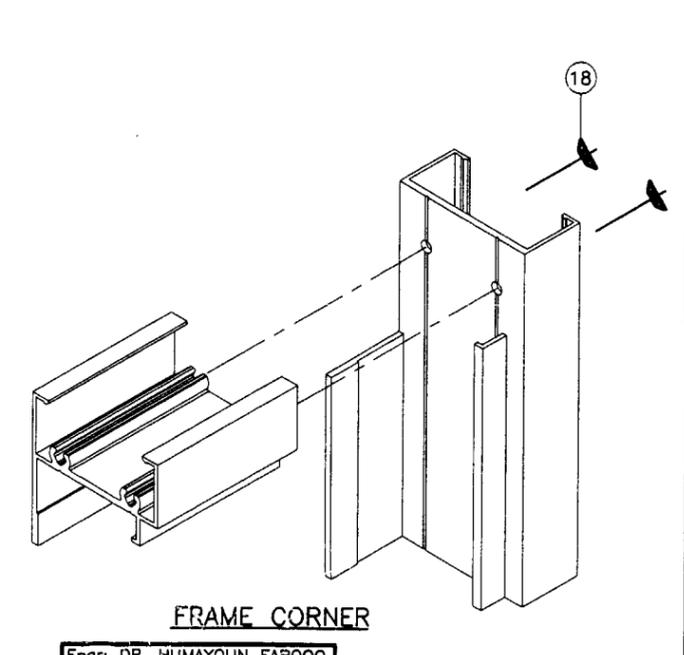
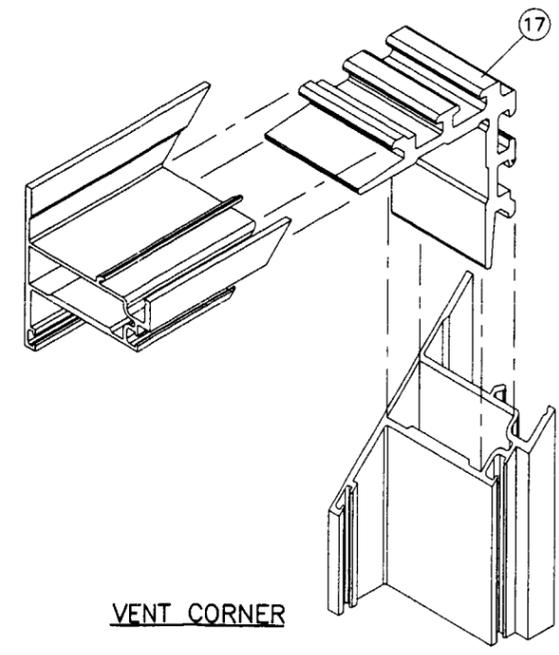
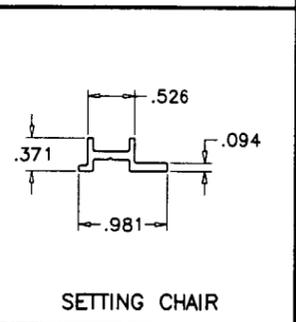
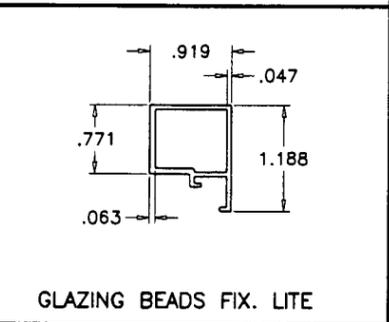
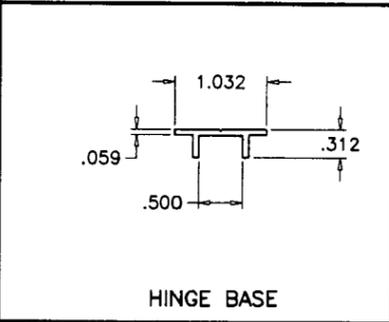
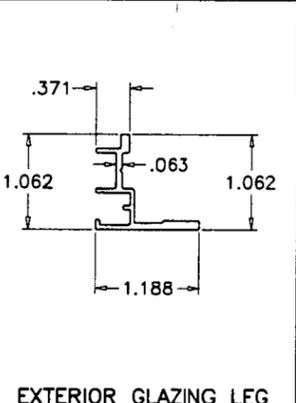
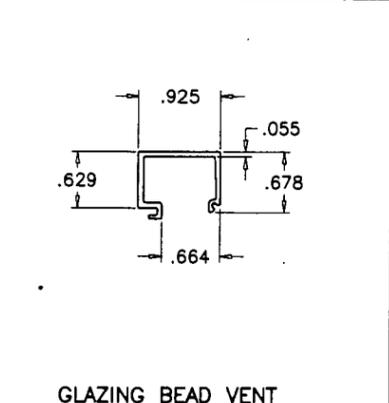
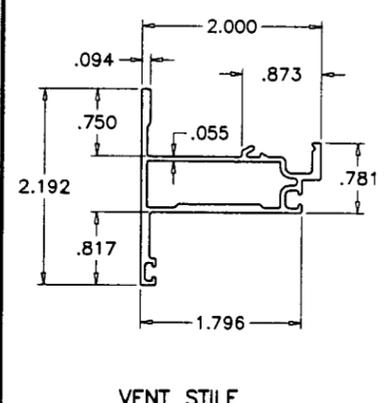
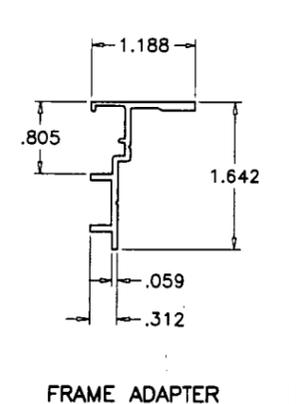
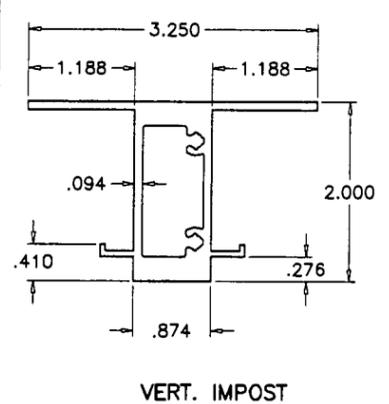
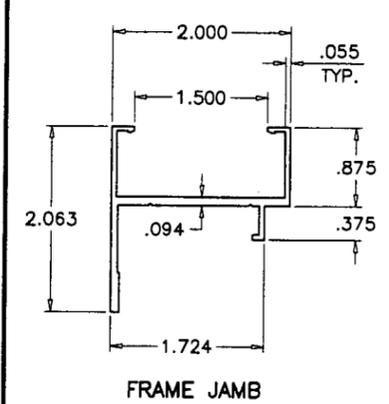
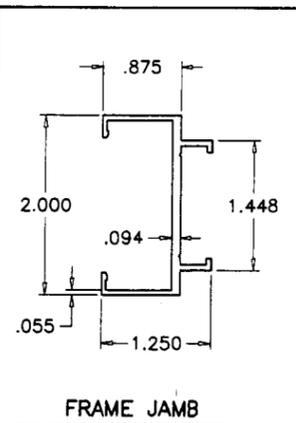
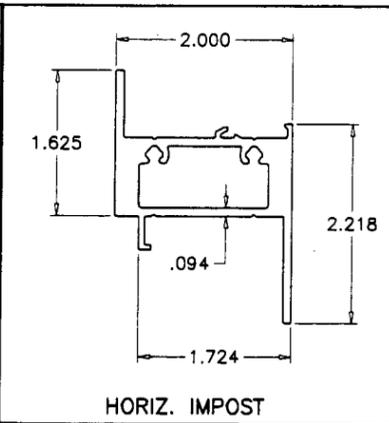
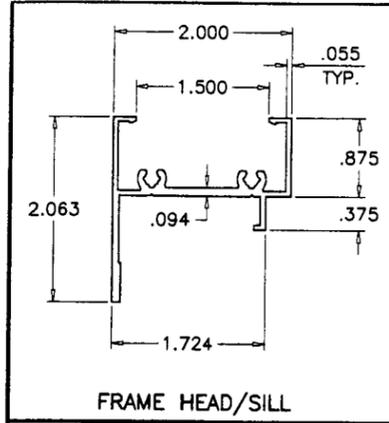
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dr. by: HAMID  
chk. by:

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drawing no.  
**W02-70**  
sheet 4 of 6



MATERIALS LIST					
ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E9-4401	2/ WDW	FRAME HEAD/SILL	6063-T5	YKK AMERICA INC.
2	E9-4402	2/ WDW	FRAME JAMB	6063-T5	YKK AMERICA INC.
2A	E9-4403	AS REQD.	FRAME JAMB	6063-T5	YKK AMERICA INC.
3	E9-4452	4/ WDW	GLAZING STOP (VENT)	6063-T5	YKK AMERICA INC.
3A	E9-4451	4/ WDW	GLAZING STOP (FIX. LITE)	6063-T5	YKK AMERICA INC.
4	E9-4411	4/ WDW	VENT STILE	6063-T5	YKK AMERICA INC.
5	-	-	-	-	-
6	E9-4430	AS REQD.	VERT. IMPOST	6063-T5	YKK AMERICA INC.
7	E9-4431	AS REQD.	HORIZ. IMPOST	6063-T5	YKK AMERICA INC.
8	E9-4410	AS REQD.	FRAME ADAPTER	6063-T5	YKK AMERICA INC.
9	E9-4453	AS REQD.	EXTERIOR GLAZING LEG	6063-T5	YKK AMERICA INC.
10	E1-1548	AS REQD.	HINGE BASE	6063-T5	YKK AMERICA INC.
11	E2-0625	AS REQD.	BULB WEATHERSTRIPPING	PVC	YKK AMERICA INC.
12	E1-1541/42	2/ VENT	CAM LOCK AT 7" FROM TOP & BOTTOM OF VENT	-	BRONZECRAFT, ATTACHED W/ (2) #10 X 1/2" SMS
13	E1-1519	1/ LOCK	LOCK KEEPERS	-	BRONZECRAFT, ATTACHED W/ (2) #10 X 1/2" SMS
14	E1-1709	2/ VENT	4 BAR HINGES AT TOP & BOTTOM	-	BRONZECRAFT (STORM HINGE OR STERLING)
15	E2-0359	AS REQD.	ARROW SPACER, 4" LONG	EPDM SPONGE	AT QUARTER POINTS
16	E2-0645	AS REQD.	GLAZING TAPE	-	CLOSED CELL EPDM SPONGE
17	E1-1540	1/ CORNER	CORNER BLOCK	6063-T5	YKK AMERICA INC.
18	#10 X 1"	2/ CORNER	FRAME ASSEMBLY SCREWS	CRS	PH SMS
19	E2-0623	AS REQD.	SETTING BLOCKS	EPDM	1/4" X 7/16" X 4" LONG
20	E2-9907	AS REQD.	SETTING BLOCKS	EPDM	5/16" X 3/4" X 4" LONG
21	E2-0624	AS REQD.	SIDE BLOCKS	EPDM	3/16" X 7/16" X 2" LONG
22	-	-	-	-	-
23	E3-1101	2/ WDW	WEEP COVER	NYLON	AT WEEP SLOTS
24	-	-	-	-	-
25	E9-4454	AS REQD.	SETTING CHAIR	6063-T5	YKK AMERICA INC.



Engr: DR. HUMAYOUN FAROOQ  
STRUCTURES  
FLA. PE # 16557  
*8/24 2.5 2002*

Approved as complying with the  
Florida Building Code  
Date *12/19/02*  
NOA# *02-1009.14*  
Miami Dade Product Control  
Division  
By: *George Benner*

*afsc*

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YOW-200 ALUM CASEMENT WINDOW (L.M.I.)

revisions:	no	date	by	description

date: 08-11-02  
scale: 1/2" = 1"  
dr. by: HAMID  
chk. by:

drawing no.  
**W02-70**

sheet 6 of 6