



**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)**

**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 Florida Building Code, including the High Velocity Hurricane Zone.

**DESCRIPTION: Series "YVS 410TUH" Aluminum Single Hung Window-S.M.I.**

**APPROVAL DOCUMENT:** Drawing No. **W04-86**, titled "YVS 410TUH Aluminum Single Hung WDW.- (S.M.I.)", sheets 1 through 5 of 5, prepared by AL-Farooq Corporation, dated 10/14/04, signed and sealed by Humayoun Farooq, 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 Division.

**MISSILE IMPACT RATING: 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 and evidence page E-1 and E2, as well as approval document mentioned above. The submitted documentation was reviewed by **Herminio F. Gonzalez, P.E., Director, BCCO**



**NOA No 04-1117.02  
Expiration Date: April 14, 2010  
Approval Date: April 14, 2005  
Page 1**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No **W04-73**, titled "YVS 410TUH Aluminum Single Hung WDW.- (L.M.I.)", Sheets 1 through 5 of 5, prepared by AL-Farooq Corporation, dated 08/23/04, 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) Small 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 (b) and TAS 202-94along with marked-up drawings and installation diagram of aluminum single hung windows, prepared by Hurricane Test Laboratory, LLC, Test Report No. **HTL-0231-0409-04, specimens 1,2,3,4,5,6,& 7**, dated 04/12-14/04, signed and sealed by Vinu J. Abraham, P.E.
2. 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 203-94along with marked-up drawings and installation diagram of aluminum single hung windows, prepared by Hurricane Test Laboratory, LLC, Test Report No. **HTL-0231-0118-04, specimen 1**, dated 11/29-12/02/04, signed and sealed by Vinu J. Abraham, P.E.

**C. CALCULATIONS**

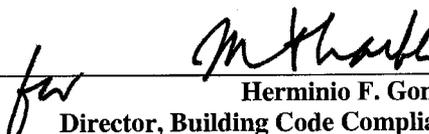
1. Anchor Calculations, ASTM-E 1300, and structural analysis, prepared by AL-Farooq Corporation, dated 09/23/04, signed and sealed by Humayoun Farooq, P.E.

**D. QUALITY ASSURANCE**

1. Miami Dade Building Code Compliance Office (BCCO).

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No.**03-0415.13** for" Vanceva Composites" issued to Solutia Inc., approved on 12/11/03 with expiration date of 12/11/08.
2. Notice of Acceptance No.**02-1205.03** for" Saf-Glas Polycarbonate Laminate" issued to Security Impact Holding, L.L.C., approved on 01/02/03 with expiration date of 12/16/07.

  
\_\_\_\_\_  
Herminio F. Gonzalez, P.E.  
Director, Building Code Compliance Office

NOA No 04-1117.02  
Expiration Date: April 14, 2010  
Approval Date: April 14, 2005

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**F. STATEMENTS**

1. Statement letter of conformance, dated September 23, 2004, signed by Humayoun Farooq, P.E.
2. Statement letter of no financial interest, dated September 23, 2004, signed by Humayoun Farooq, P.E.

**G. OTHER**

1. Letter from the consultant stating that the product is in compliance with the Florida Building Code (FBC).

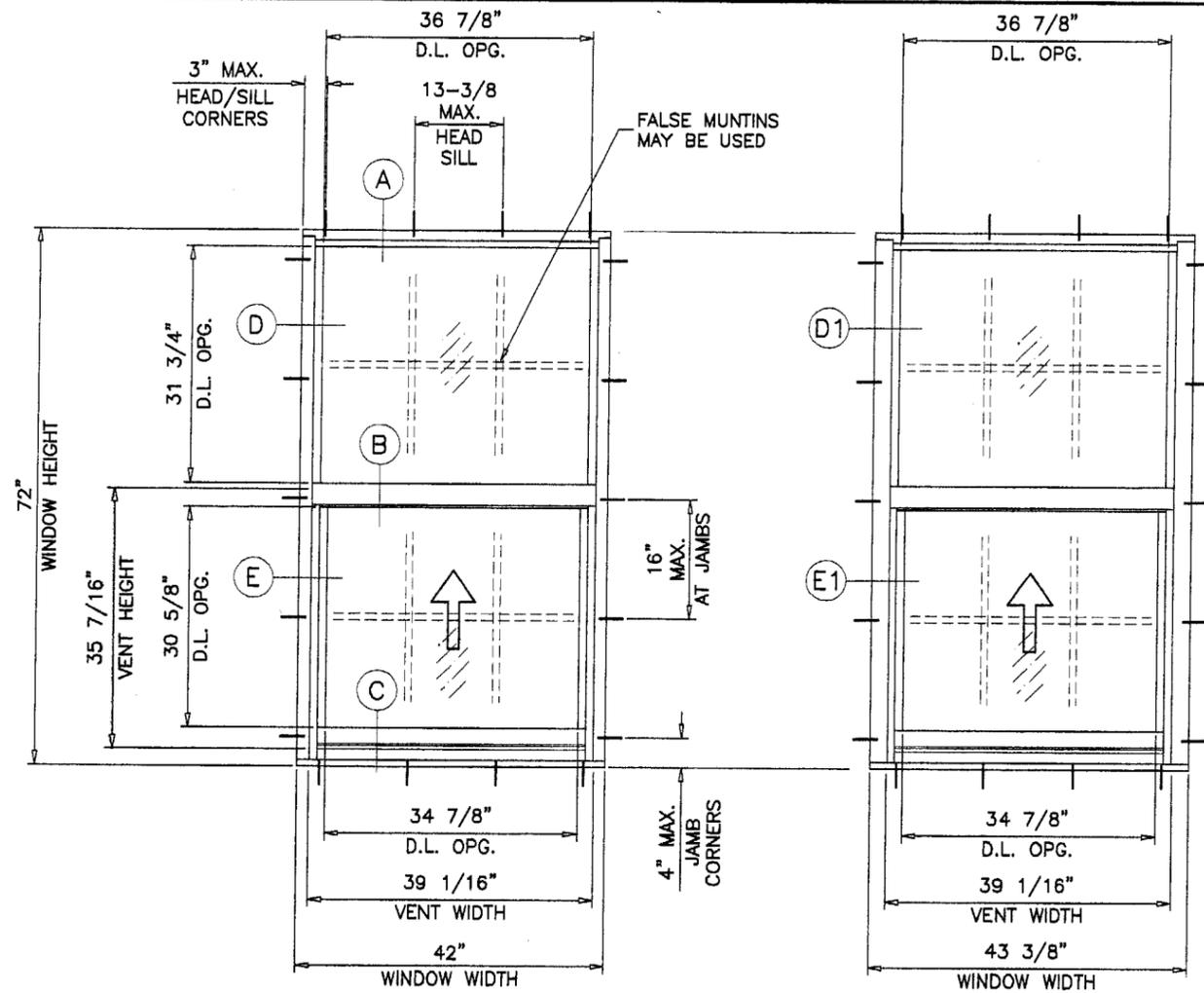
*for M. F. Gonzalez*

Herminio F. Gonzalez, P.E.  
Director, Building Code Compliance Office

NOA No 04-1117.02

Expiration Date: April 14, 2010

Approval Date: April 14, 2005



TYPICAL ELEVATION  
TESTED UNIT

MAXIMUM DESIGN LOAD RATING = + 80.0 PSF  
(FOR SIZES SHOWN OR SMALLER) - 120.0 PSF

THESE WINDOWS ARE RATED FOR SMALL MISSILE IMPACT.  
MIAMI-DADE COUNTY APPROVED IMPACT RESISTANT SHUTTERS  
REQUIRED FOR INSTALLATIONS UP TO 30 FT. OF GRADE  
SHUTTERS NOT REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.

**SERIES YVS 410TUH**  
**ALUMINUM SINGLE HUNG WINDOW**

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS  
OF S.H./S.H. OR S.H. WITH OTHER WINDOW TYPES IN MODULES  
OF TWO OR MORE WINDOWS USING APPROVED MULLIONS.

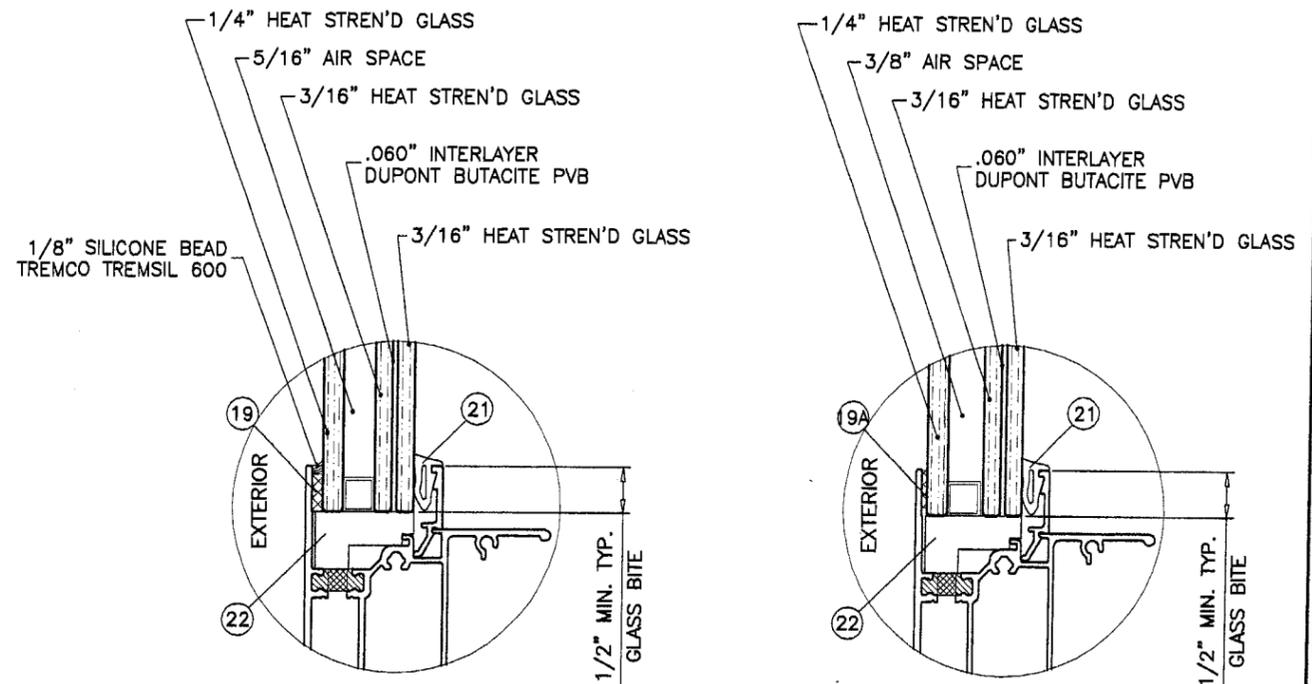
THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE  
REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY  
HURRICANE ZONE.

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

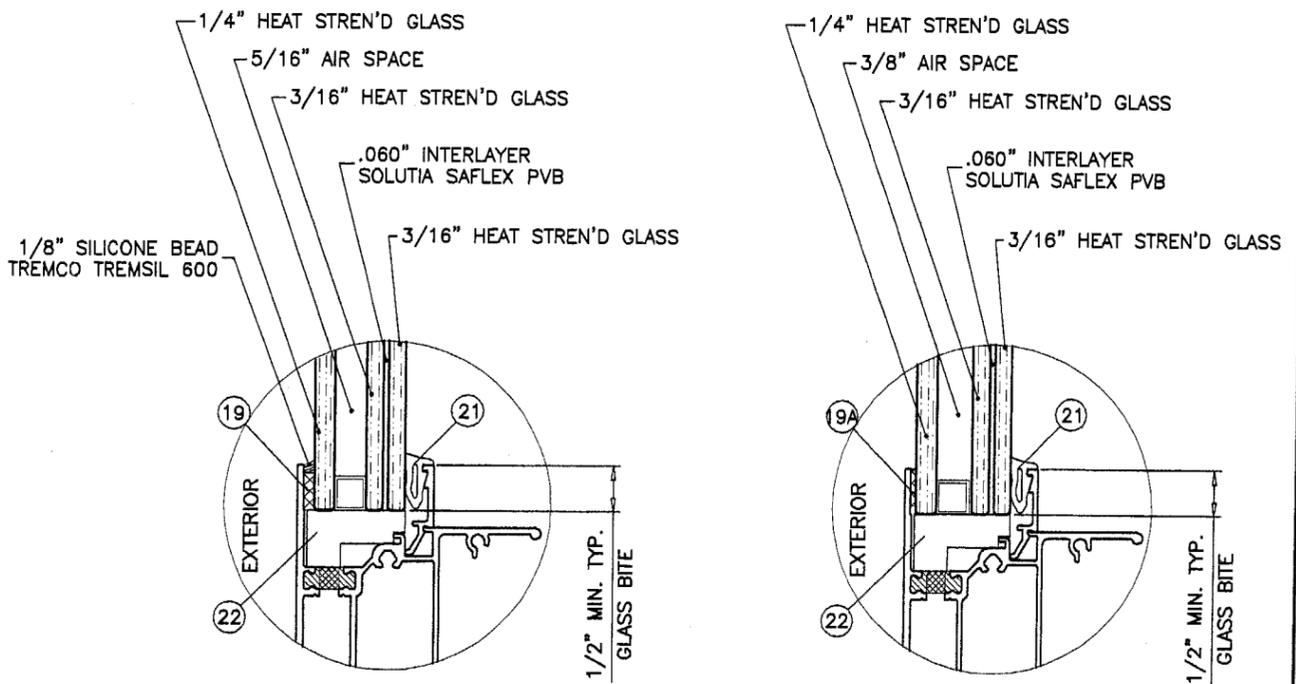
ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS.  
ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL  
DRESSING OR STUCCO.

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

A 33% INCREASE IN ALLOWABLE STRESS WAS USED IN DESIGN OF ANCHORS.



GLASS TYPE 'C'



GLASS TYPE 'D'

Approved as complying with the  
Florida Building Code  
Date 04/14/05  
NOAH 04-112-02  
Miami-Dade Permit Control  
Division  
By *M. H. H.*

Engr. DR. HUMAYOUN FAROOQ  
STRUCTURES  
FLA. PE # 18557  
C.A.N. 3538

LAMINATED INSULATING GLASS  
SMALL MISSILE IMPACT

MAR 09 2005

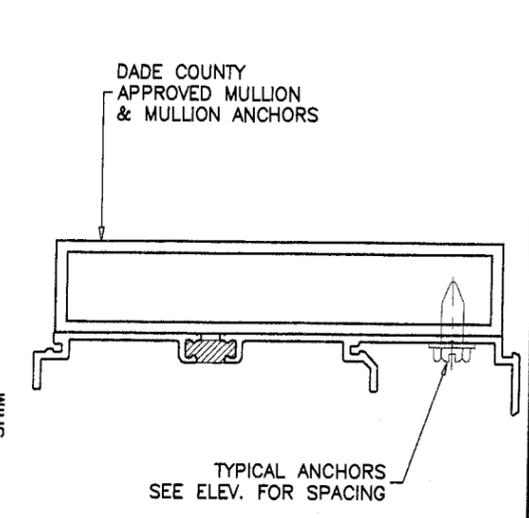
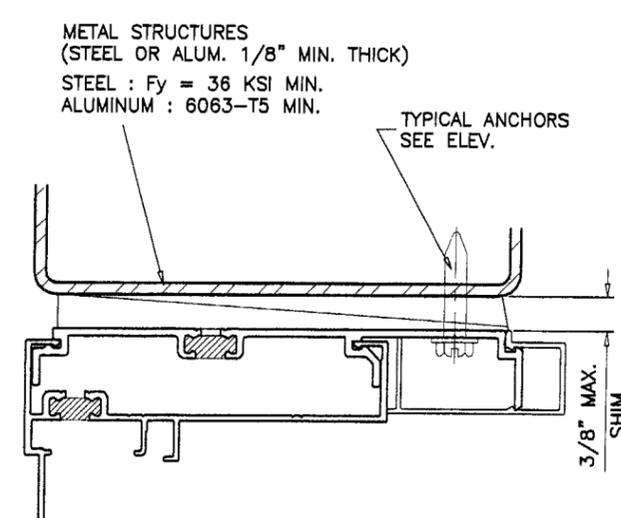
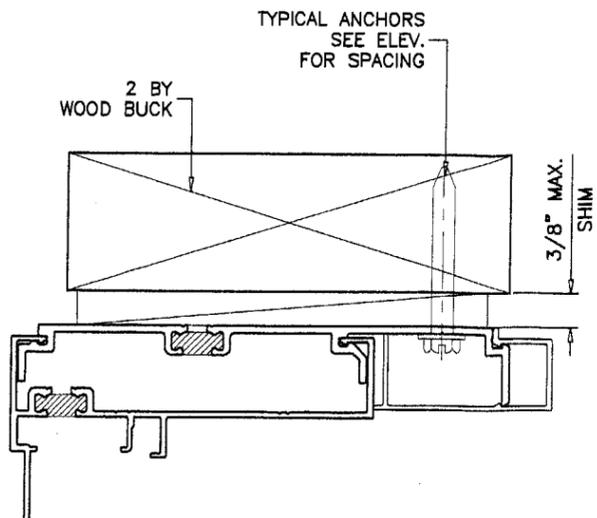
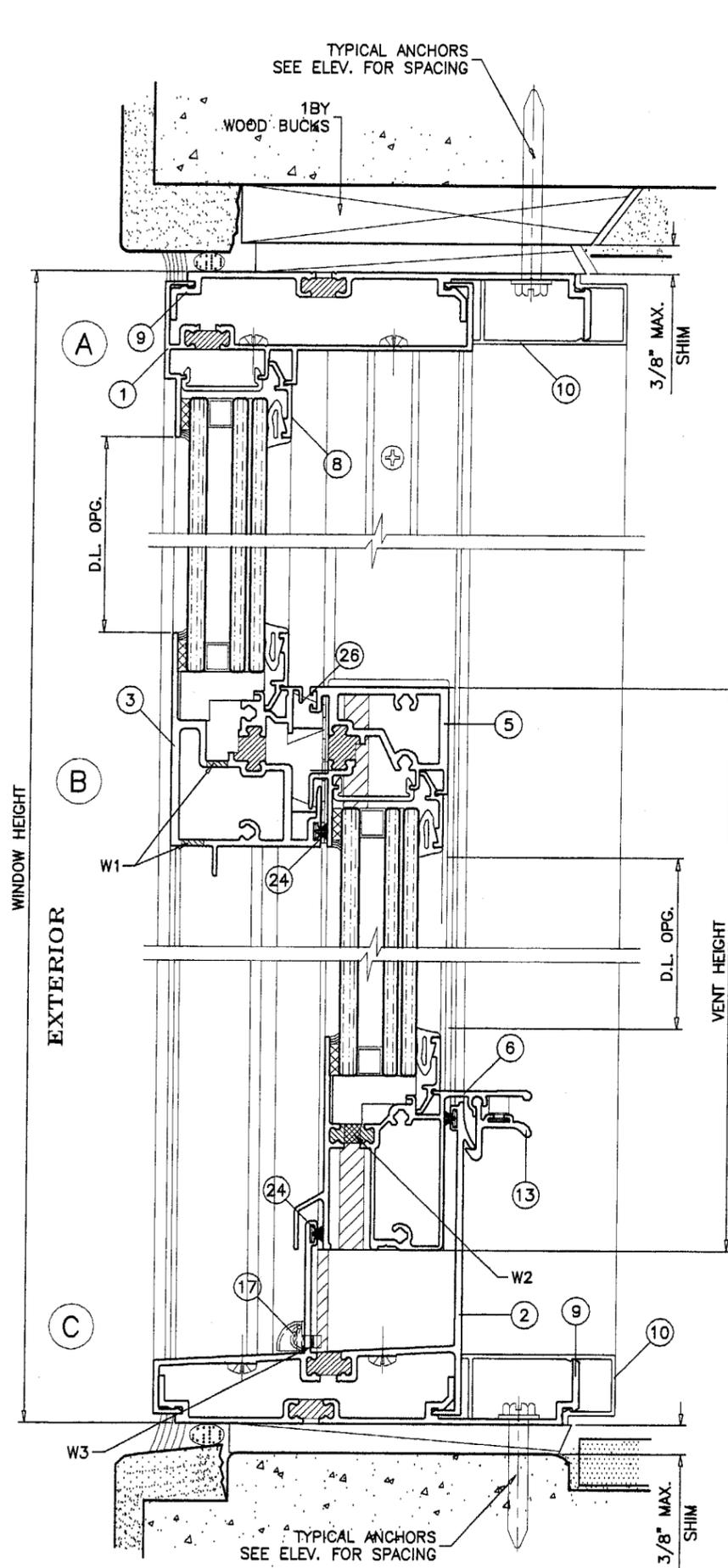
**AL-FAROOQ CORPORATION**  
ENGINEERS, PLANNERS & PRODUCT DESIGN  
1235 SW 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL W04-86YKK

**YKK AP AMERICA INC.**  
332 FIRETOWER ROAD  
DUBLIN, GEORGIA 31021  
TEL. (478) 277-1955 FAX (478) 277-1978

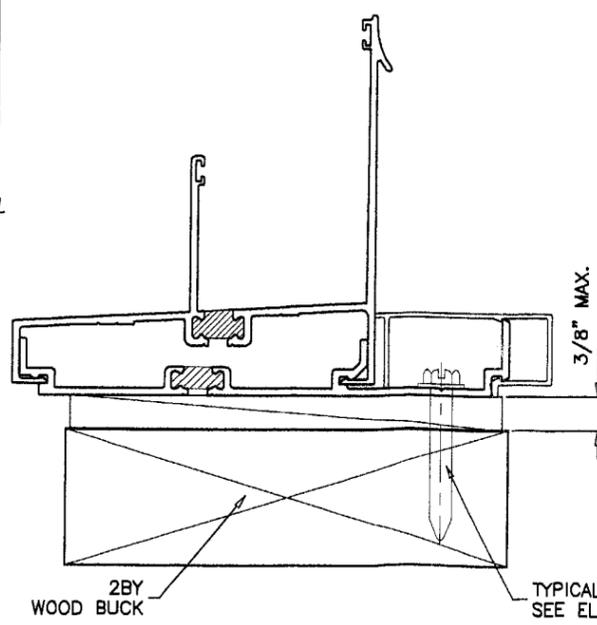
no.	date	description

date: 10-14-04  
scale: 1/2"=1'-0"  
dr. by: HAMID  
chk. by:

drawing no. **W04-86**  
sheet 1 of 5



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



**TYPICAL ANCHORS:** SEE ELEV. FOR SPACING

**1/4" DIA. TAPCONS**  
 INTO WOOD STRUCTURES  
 WITH 1-1/2" MIN. PENETRATION INTO WOOD  
 THRU WOOD BUCKS INTO MASONRY  
 WITH 1-1/4" MIN. EMBED INTO CONC. OR MASONRY

**1/4" DIA. TAPCONS**  
 DIRECTLY INTO MASONRY  
 WITH 1-1/4" MIN. EMBED INTO MASONRY

**#14 SMS OR 1/4" DIA. ELCO DRILLFLEX**  
 INTO METAL STRUCTURES  
 (STEEL OR ALUMINIUM 1/8" MIN. THICK.)  
 STEEL : Fy = 36 KSI MIN.  
 ALUMINIUM : 6063-T5 MIN.

**TYPICAL EDGE DISTANCE**  
 INTO CONCRETE AND MASONRY = 3" MIN.  
 INTO WOOD STRUCTURE = 1" MIN.

**SEALANTS:**  
 TREMCO SPECTRUM 2 SILICONE SEALANT AT PERIMETER.  
 GE SILGLAZE II SILICONE AT FRAME & VENT JOINTS.

**WEEP HOLES:**  
 W1 = .281" DIA. WEEP HOLES AT 4" FROM EACH END.  
 W2 = .281" DIA. WEEP HOLES AT 4" FROM VENT CORNERS.  
 W3 = 1/4" X 1-1/16" WEEP SLOT AT 6" FROM EACH CORNER WITH NYLON COVER.

Approved as complying with the Florida Building Code  
 Date 04/14/05  
 NOA# 04-1117-02  
 Miami Dade Product Control Division  
 By *[Signature]*

Engr: DR. HUMAYOON FAROOQ  
 STRUCTURES  
 FLA. PE # 16557  
 C.A.N. 3538

*[Signature]*

MAR 09 2005

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

YKS 410TUH ALUMINUM SINGLE HUNG WDW. (S.M.I.)  
**YKK AP AMERICA INC.**  
 332 FIRETOWER ROAD  
 DUBLIN, GEORGIA 31021  
 TEL(478) 277-1955 FAX(478) 277-1978

no	date	description

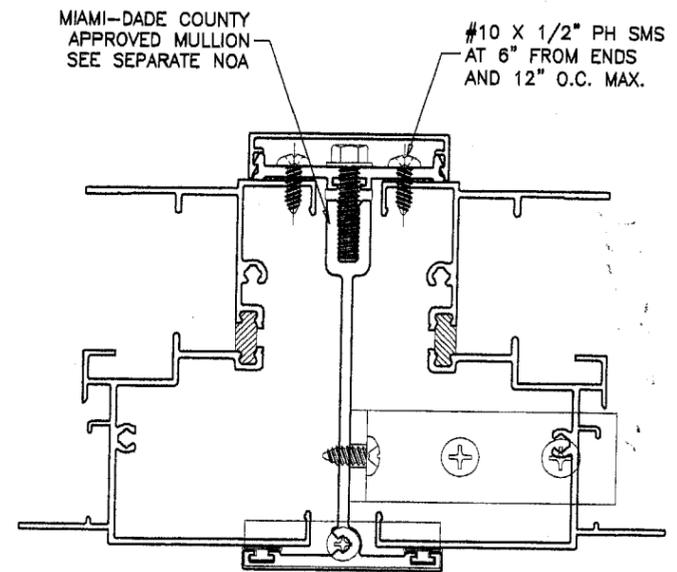
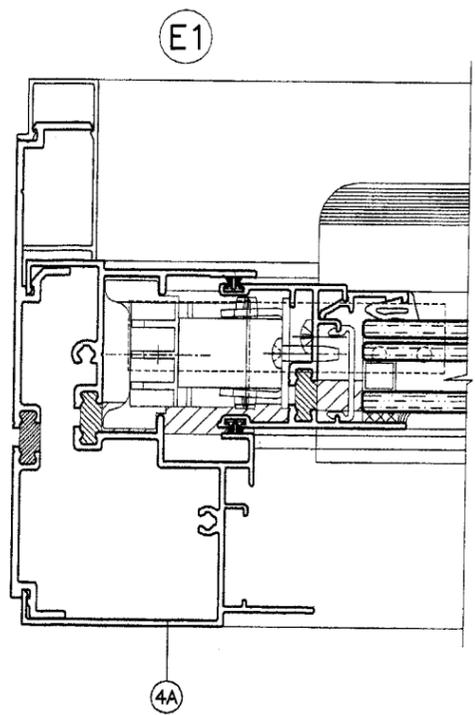
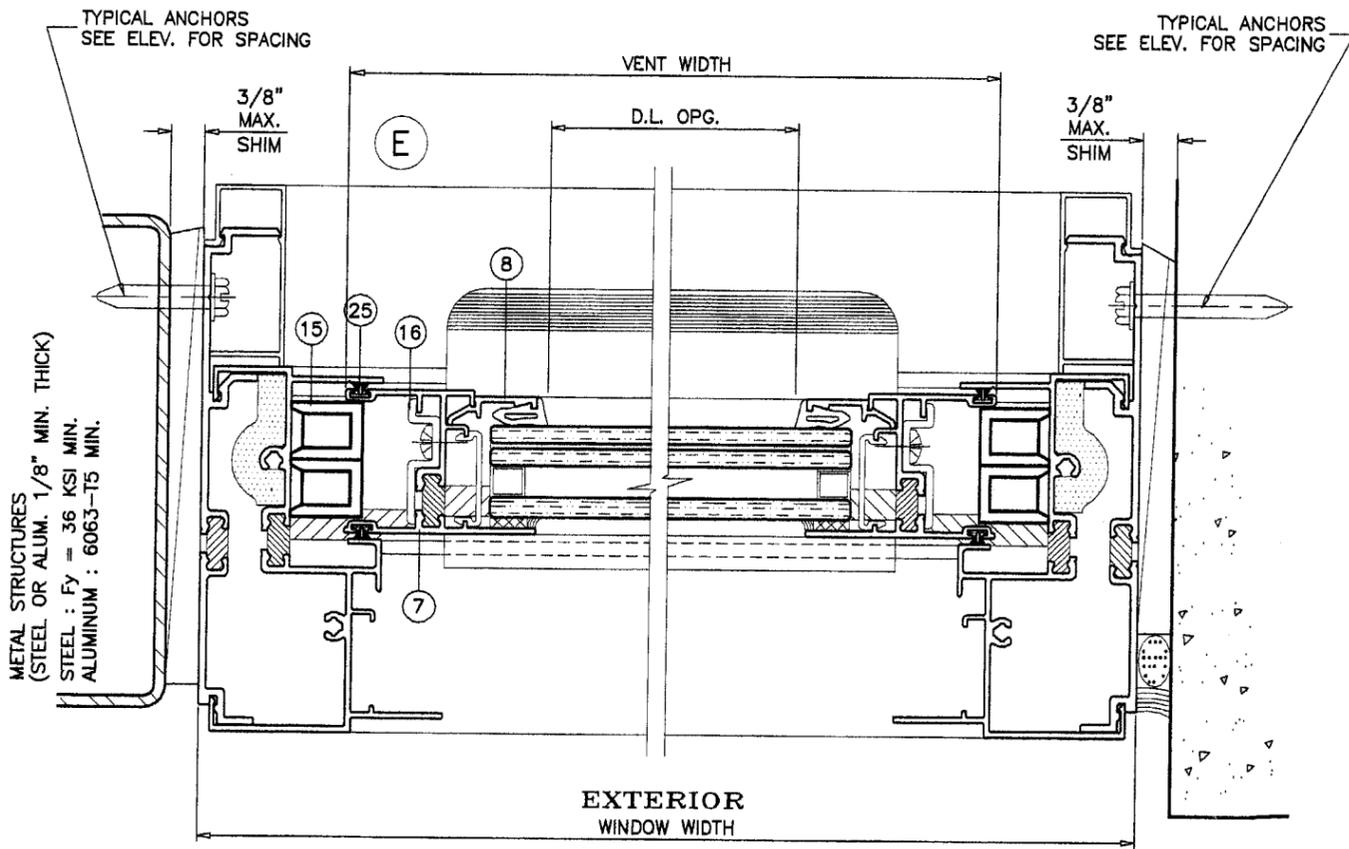
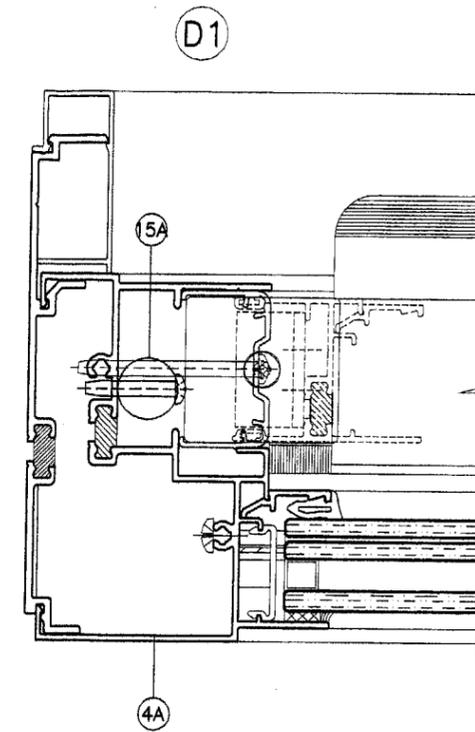
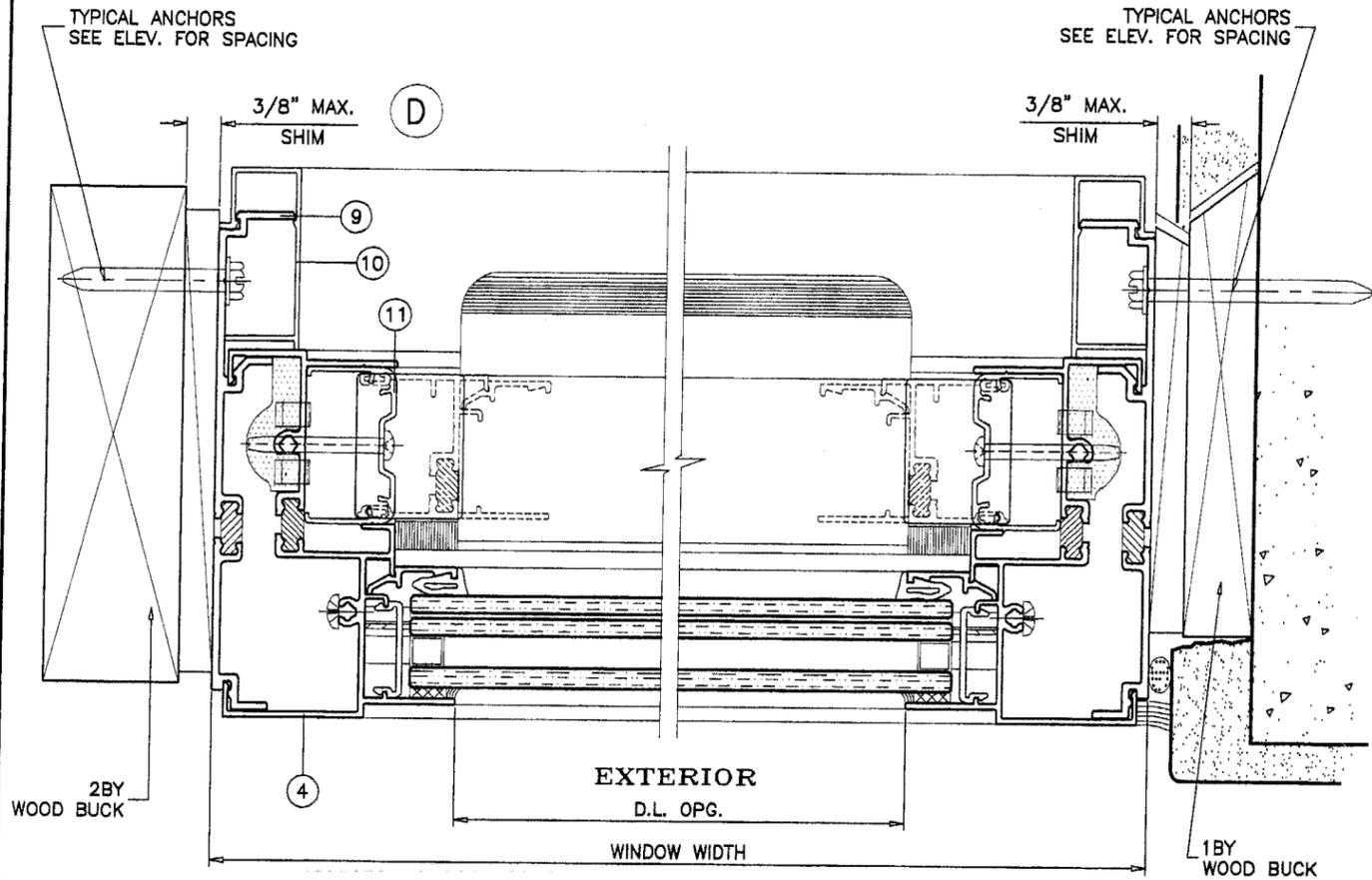
date: 10-14-04  
 scale: 1/2" = 1"  
 dr. by: HAMID  
 chk. by:

drawing no.  
**W04-86**

sheet 2 of 5

*afjc*

COMP-ANL/W04-86YKK



Approved as complying with the  
 Florida Building Code  
 Date 04/10/05  
 NOA# 04-1117-02  
 Miami-Dade Product Control  
 Division  
 By *[Signature]*

Engr: DR. HUMAYOUN FAROOQ  
 STRUCTURES  
 FLA. PE # 16557  
 C.A.N. 3538

*[Signature]*

MAR 09 2005

*afc*  
**AL-FAROOQ CORPORATION**  
 ENGINEERS, PLANNERS & PRODUCT DESIGN  
 1235 SW 87 AVE  
 MIAMI, FLORIDA 33174  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
 COMP-ANI\W04-86YKK

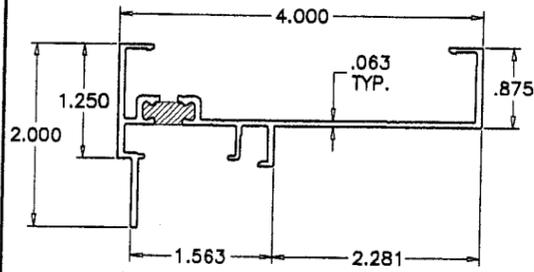
YS 410TUH ALUMINUM SINGLE HUNG WDW. (S.M.I.)  
**YKK AP AMERICA INC.**  
 332 FIRETOWER ROAD  
 DUBLIN, GEORGIA 31021  
 TEL.(478) 277-1955 FAX(478) 277-1978

revisions:	no	date	by	description

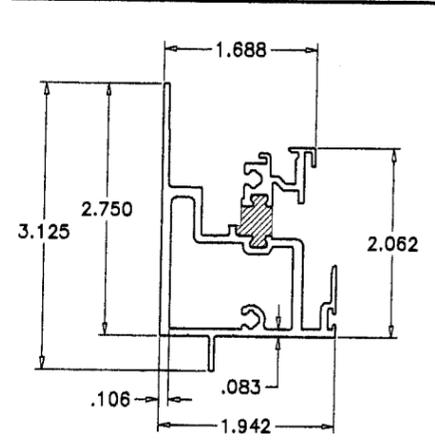
date: 10-14-04  
 scale: 1/2" = 1"  
 dr. by: HAMID  
 chk. by:

drawing no.  
**W04-86**

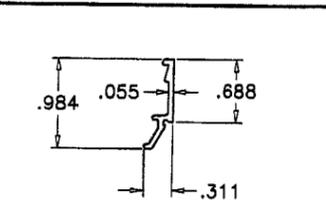
sheet 3 of 5



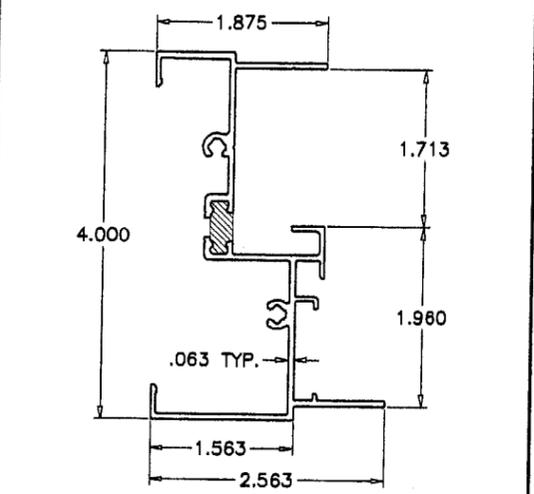
① FRAME HEAD



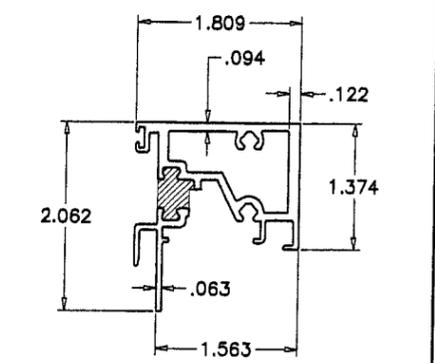
③ MEETING RAIL



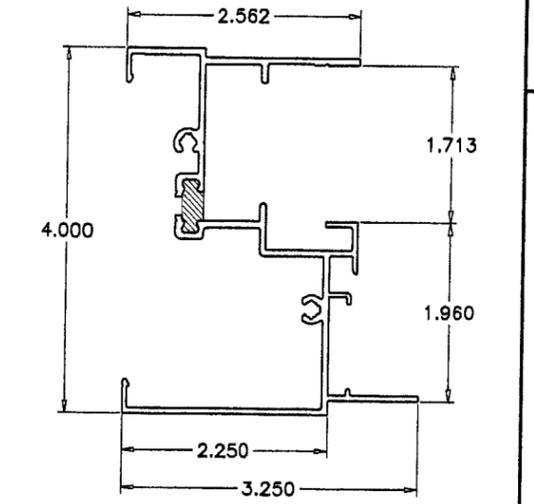
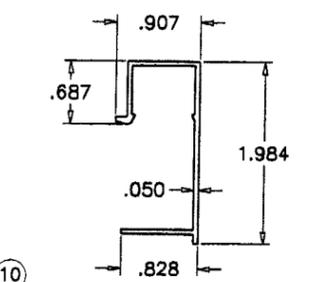
⑧ GLASS STOP



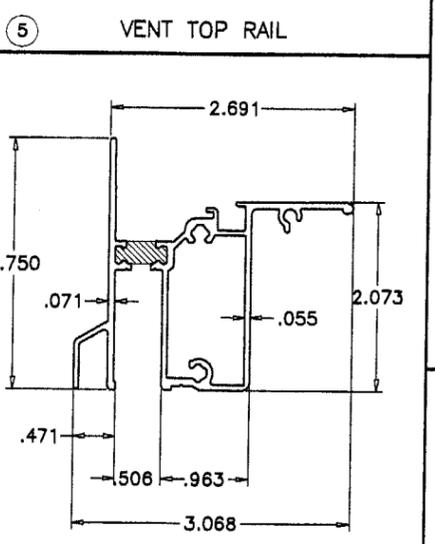
④ FRAME JAMB



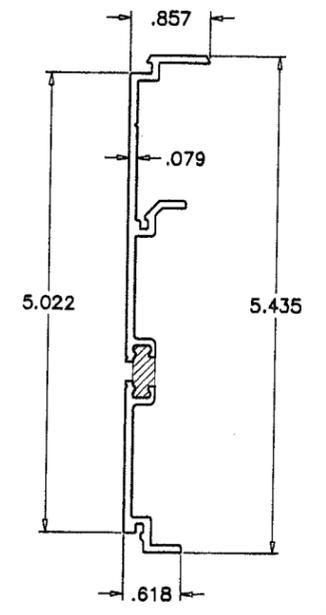
⑩ STRAP ANCHOR COVER



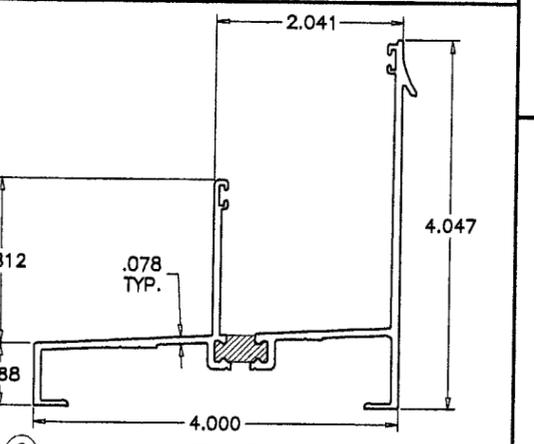
④A ALT. FRAME JAMB



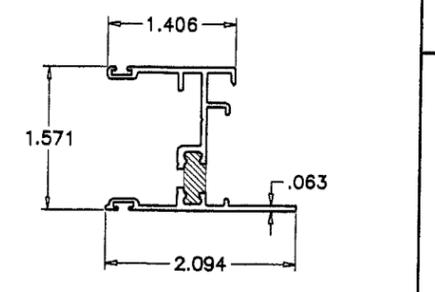
⑤ VENT TOP RAIL



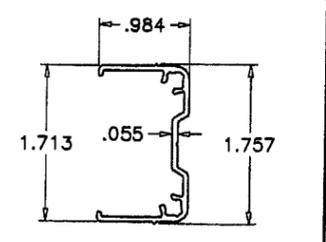
⑨ STRAP ANCHOR



② FRAME SILL



⑦ VENT SIDE RAIL



⑪ VENT STOP

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	BE9-4701	1	FRAME HEAD	6063-T5	-
2	BE9-4717	1	FRAME SILL	6063-T5	-
3	BE9-4709	1	MEETING RAIL	6063-T5	-
4	BE9-4704	2	FRAME JAMB (BLOCK & TACKLE)	6063-T5	-
4A	BE9-4706	2	ALT. FRAME JAMB (ULTRA-LIFT)	6063-T5	-
5	BE9-4710	1	VENT TOP RAIL	6063-T5	-
6	BE9-4718	1	VENT BOTTOM RAIL	6063-T5	-
7	BE9-4712	2	VENT SIDE RAIL	6063-T5	-
8	E9-4610	AS REQD.	GLASS STOP	6063-T5	-
9	BE9-8567	AS REQD.	STRAP ANCHOR	6063-T5	-
10	E9-8431	AS REQD.	STRAP ANCHOR COVER	6063-T5	-
11	E1-1769	2	VENT STOP	6063-T5	-
12	-	-	-	-	-
13	E1-1758	2	SPRING LATCH	-	AT 10" FROM EACH END
14	-	-	-	-	-
15	E1-1765	4	BLOCK AND TACKLE BALANCE	STEEL	-
15A	E1-1755	2	ULTRA-LIFT BALANCE	-	-
16	E3-1125	2	VENT GUIDE	POLYAMIDE	-
17	E3-1101	2	WEEP HOLE COVER	NYLON	-
19	E2-0670	AS REQD.	BACKER TAPE FOR 1/8" F.C.	POLYURETHANE	-
19A	E2-0648	AS REQD.	1/8" EXTERIOR GASKET	EPDM SPONGE	-
20	E2-0665	AS REQD.	BACK COVER PAD	PVC FOAM	-
21	E2-0617	AS REQD.	WEDGE GASKET	EPDM	-
22	E2-0661	AS REQD.	SETTING BLOCK	EPDM	-
23	-	-	-	-	-
24	E2-0062	AS REQD.	PILE WEATHERSTRIPPING	-	-
25	E2-0669	AS REQD.	PILE WEATHERSTRIPPING	-	-
26	E2-0666	AS REQD.	PILE PAD	POLYPROPYLENE	-
27	-	-	-	-	-
28	-	-	-	-	-
29	#10 X 1"	2/ CORNER	FRAME ASSEMBLY SCREWS	ST. STEEL	PH SMS
30	#10 X 1-1/4"	2/ CORNER	VENT & MTG. RAIL ASSEMBLY SCREWS	ST. STEEL	PH SMS

Approved as complying with the Florida Building Code.  
 Date: 04/14/05  
 NOAH 04-1112.02  
 Miami-Dade Product Control Division  
 By: *[Signature]*

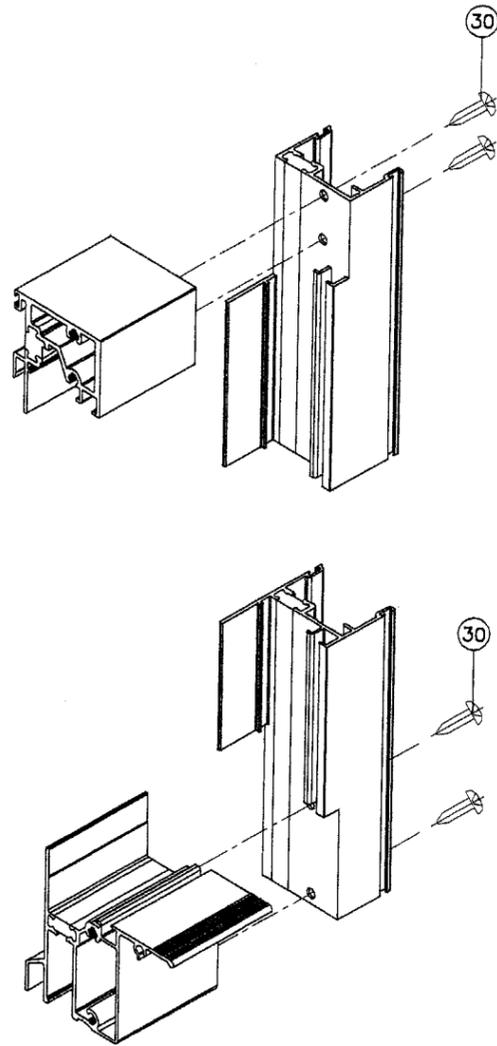
Engr: DR. HUMAYOUN FAROOQ  
 STRUCTURES  
 FLA. PE # 16557  
 C.A.N. 3538  
*[Signature]*  
 MAR 09 2005

**AL-FAROOQ CORPORATION**  
 ENGINEERS, PLANNERS & PRODUCT DESIGN  
 1235 SW 87 AVE  
 MIAMI, FLORIDA 33174  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
 COMP-ANL/W04-86YKK

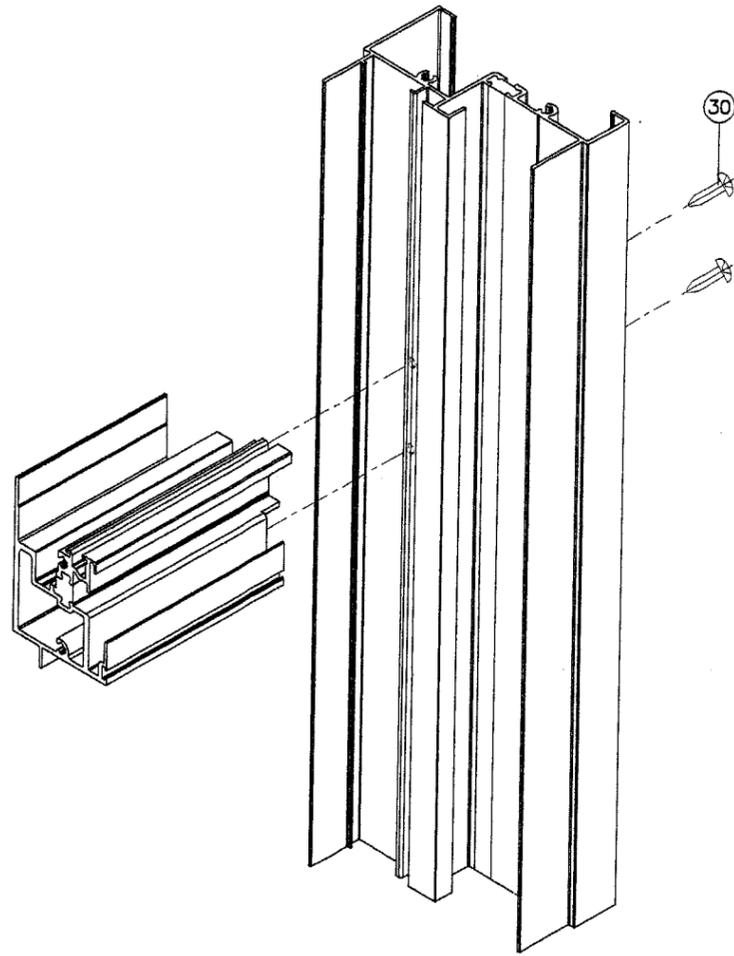
YKS 410TUH ALUMINUM SINGLE HUNG WDW. (S.M.I.)  
**YKK AP AMERICA INC.**  
 332 FIRETOWER ROAD  
 DUBLIN, GEORGIA 31021  
 TEL(478) 277-1955 FAX(478) 277-1978

revisions: no date by description

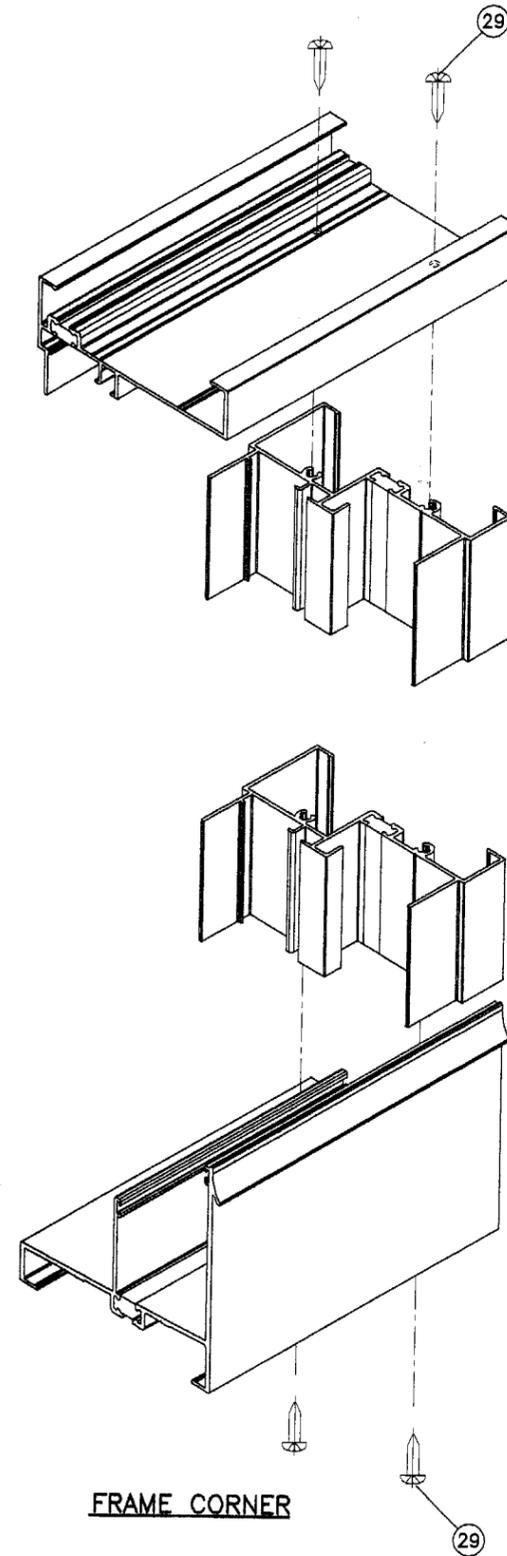
date: 10-14-04	scale: 1/2" = 1"	dr. by: HAMID	chk. by:
drawing no. W04-86			
sheet 4 of 5			



VENT CORNER



MTG. RAIL CORNER



FRAME CORNER

Approved as complying with the  
 Florida Building Code  
 Date 04/14/05  
 NOAH 04-1173-02  
 Miami-Dade Product Control  
 Division  
 By M. Shanks

Engr: DR. HUMAYOUN FAROOQ  
 STRUCTURES  
 FLA. PE # 16557  
 C.A.N. 3538

MAR 09 2005

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

YKS 410TUH ALUMINUM SINGLE HUNG WDW. (S.M.I.)  
**YKK AP AMERICA INC.**  
 332 FIRETOWER ROAD  
 DUBLIN, GEORGIA 31021  
 TEL.(478) 277-1955 FAX(478) 277-1978

revisions:	no	date	by	description

date: 10-14-04  
 scale: 1/2" = 1"  
 dr. by: HAMID  
 chk. by:

drawing no.  
**W04-86**

sheet 5 of 5

**afc**

COMP-ANI\W04-86YKK