



**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-L.M.I.

APPROVAL DOCUMENT: 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., , 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: 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 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 04-1117.01
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) 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 (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

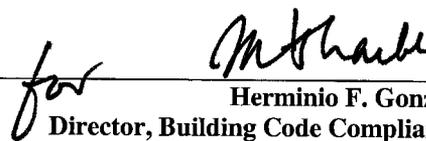
1. Anchor Calculations, ASTM-E 1300, and structural analysis, prepared by AL-Farooq Corporation, dated 09/23/04, signed and sealed by Humayoun Farooq, P.E.

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

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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).

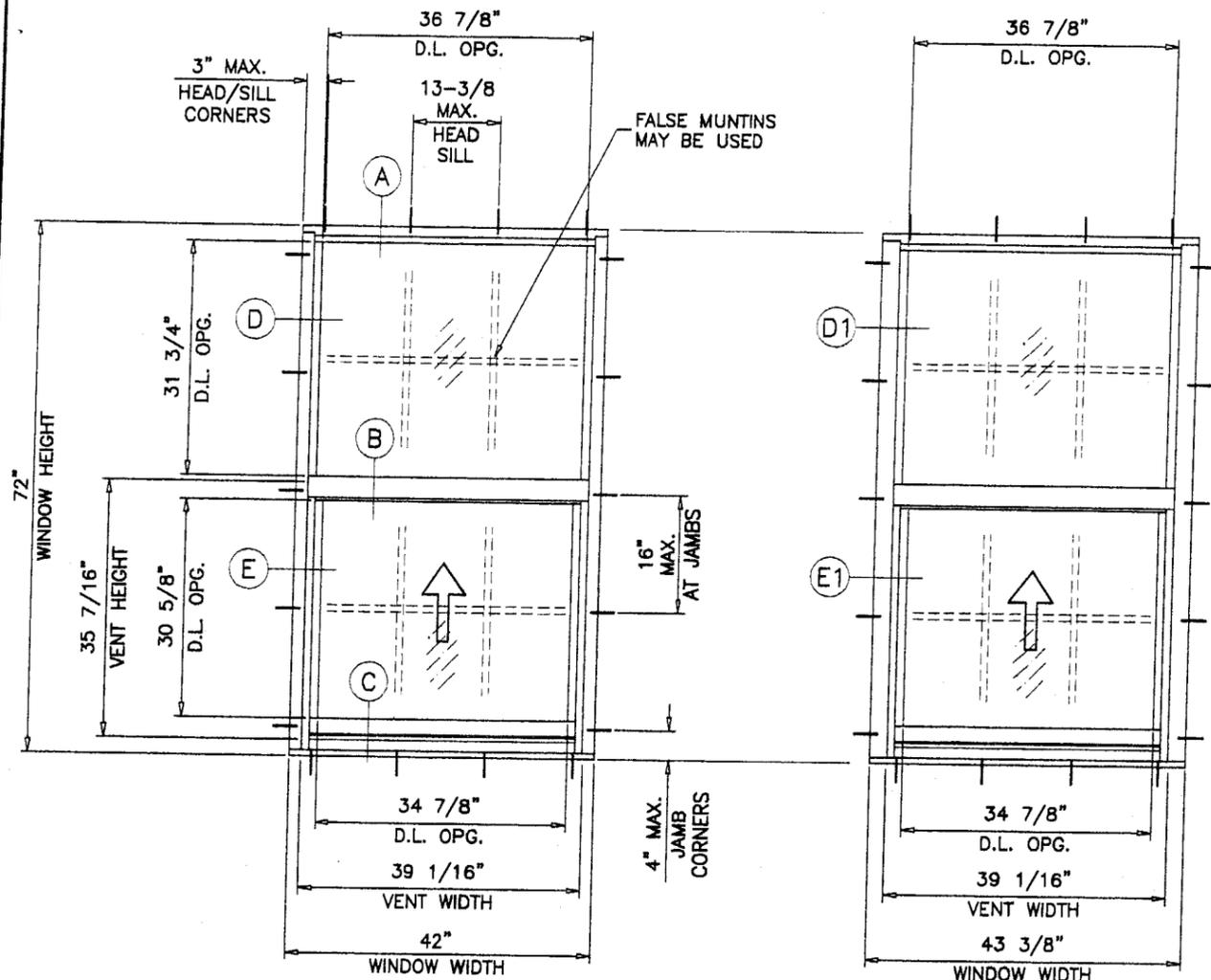
for M. Gonzalez

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

NOA No 04-1117.01

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TYPICAL ELEVATION
TESTED UNIT

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

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

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.

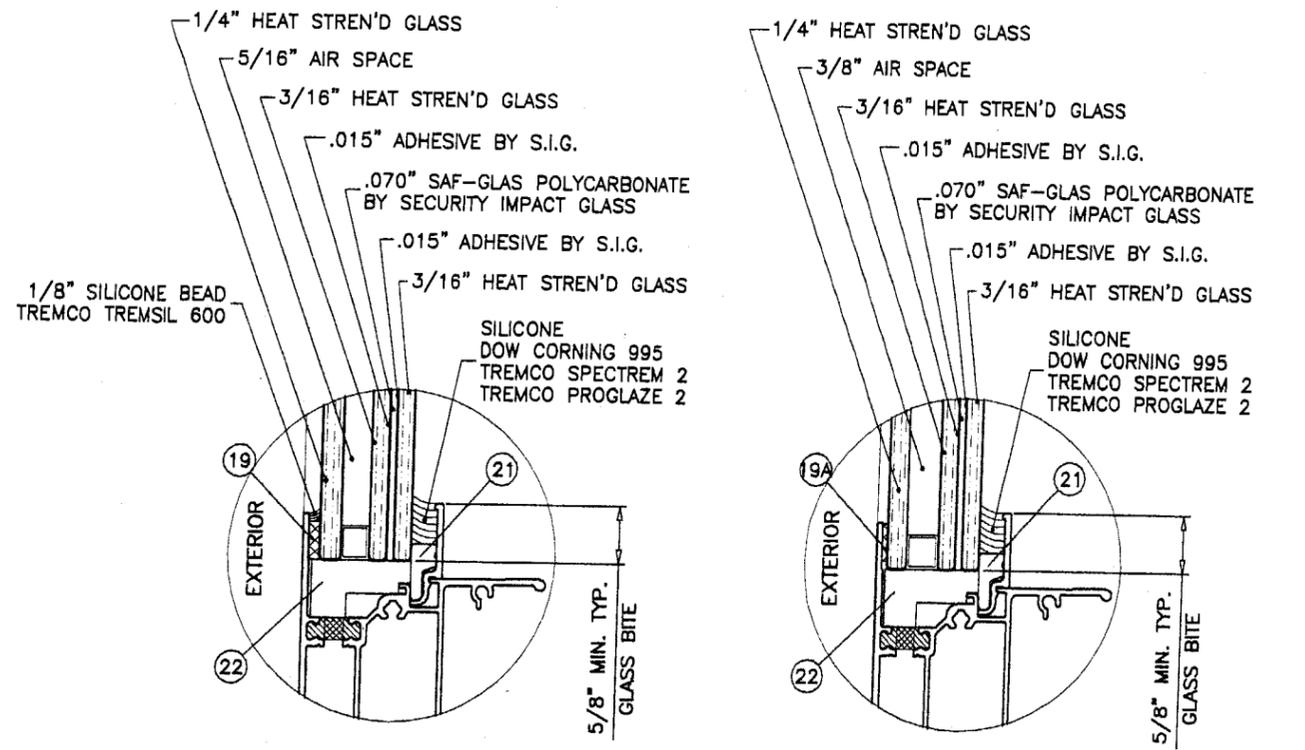
WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

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

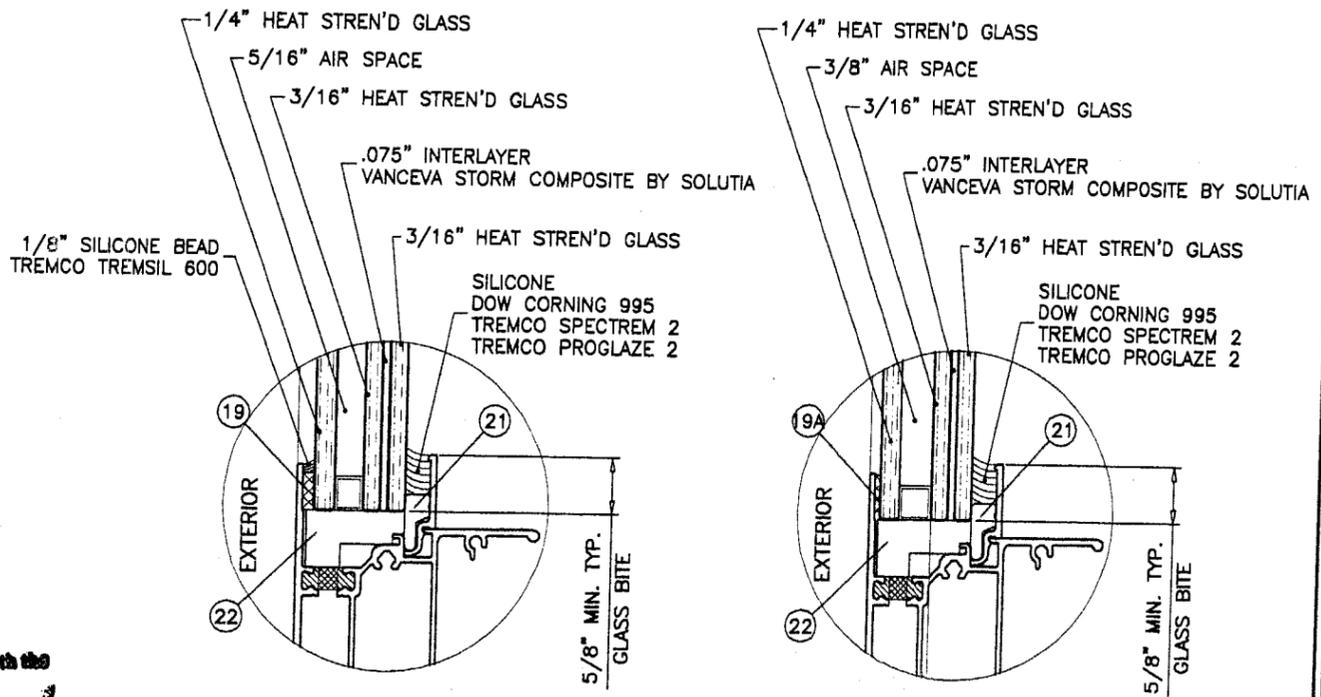
ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

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

Approved as complying with the
Florida Building Code
Date: 04/14/05
NOA# 04-117-01
Miami Dade Product Control
Division
By: *[Signature]*



GLASS TYPE 'A'



GLASS TYPE 'B'

LAMINATED INSULATING GLASS
LARGE MISSILE IMPACT

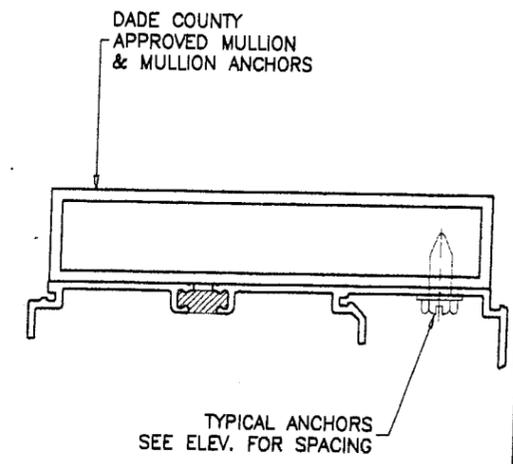
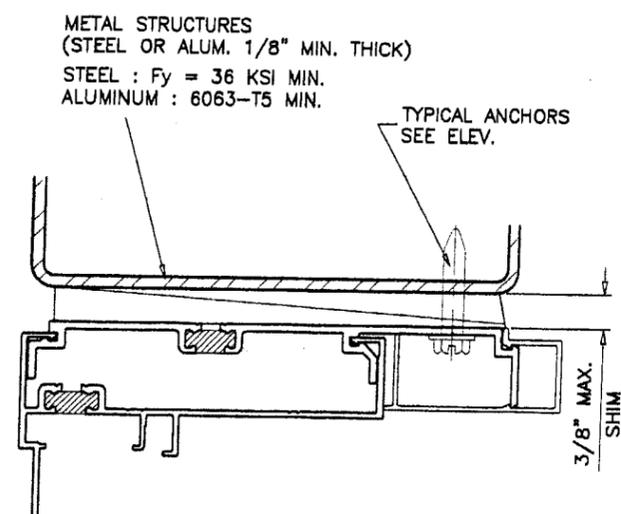
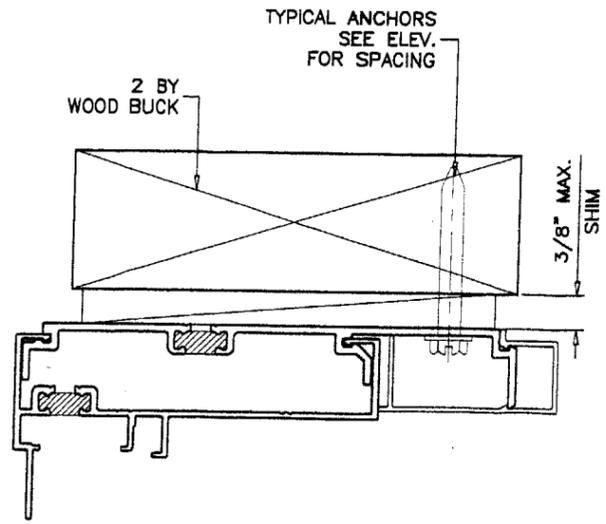
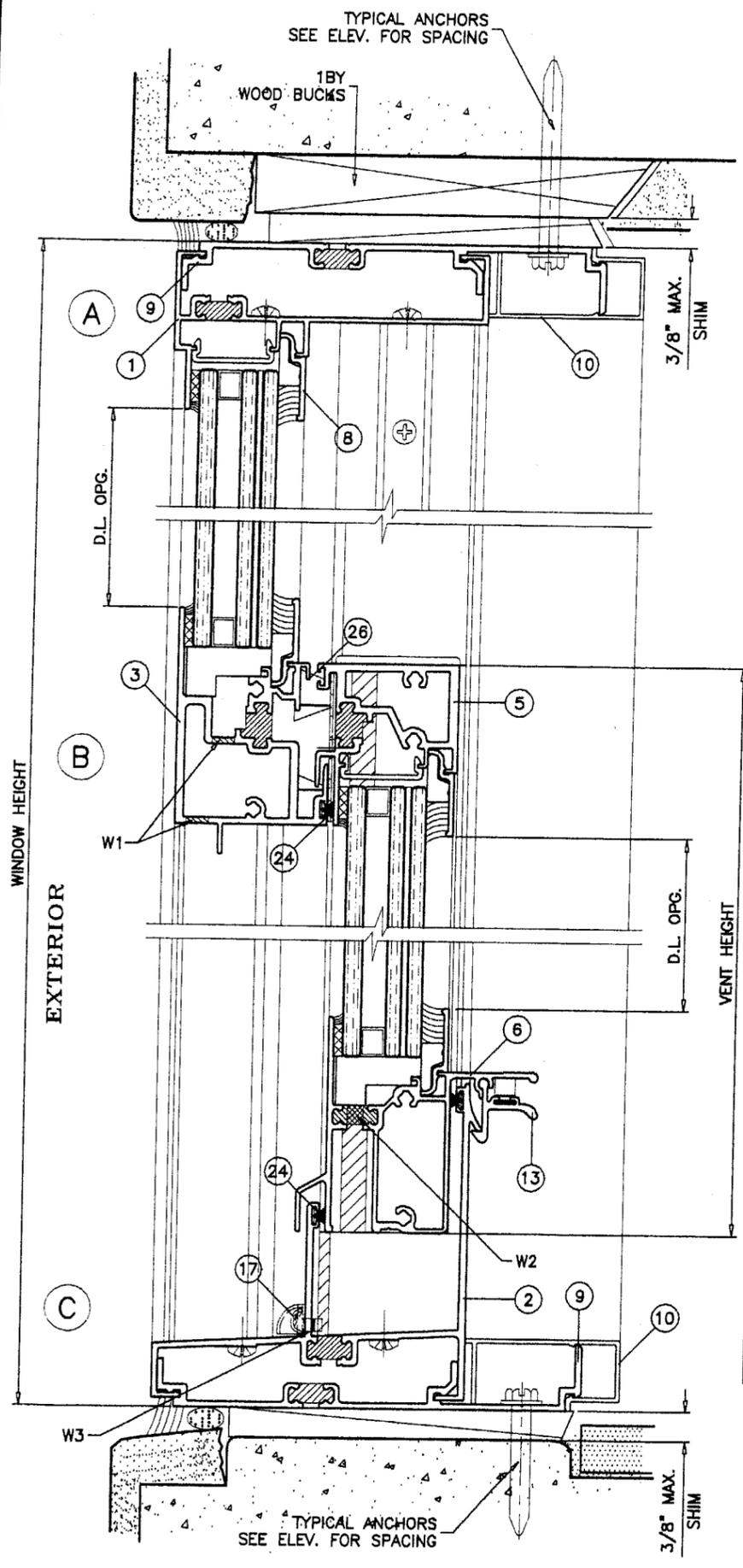
Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557
C.A.N. 3539

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 W04-73YKK

YVS 410TUH ALUMINUM SINGLE HUNG WDW. (L.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:	08-23-04	scale:	1/2" = 1'-0"	
dr. by:	HAMID	chk. by:		
drawing no.	W04-73			
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

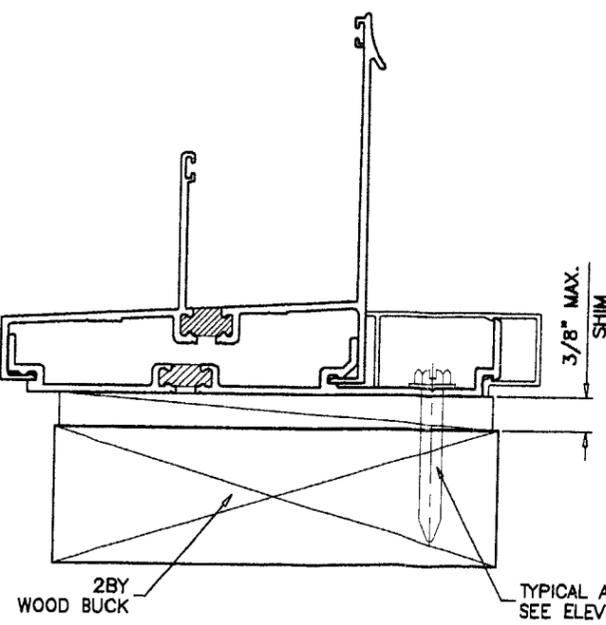
1/4" DIA. TAPCONS
 DIRECTLY INTO MASONRY
 WITH 1-1/4" MIN. EMBED INTO MASONRY

#14 SMS OR 1/4" DIA. ELCO DRILLFLEX
 INTO METAL STRUCTURES
 (STEEL OR ALUMINUM 1/8" MIN. THICK.)
 STEEL : Fy = 36 KSI MIN.
 ALUMINUM : 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# 04-1113-D1
 Miami Dade Product Control Division
 By *[Signature]*

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

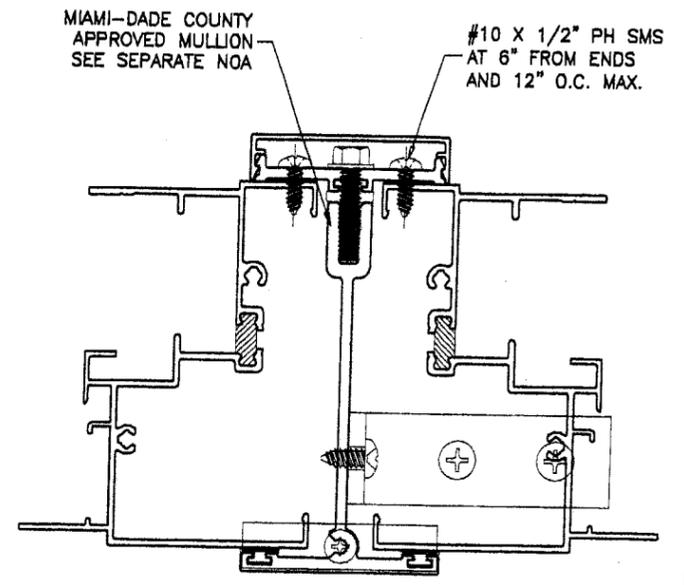
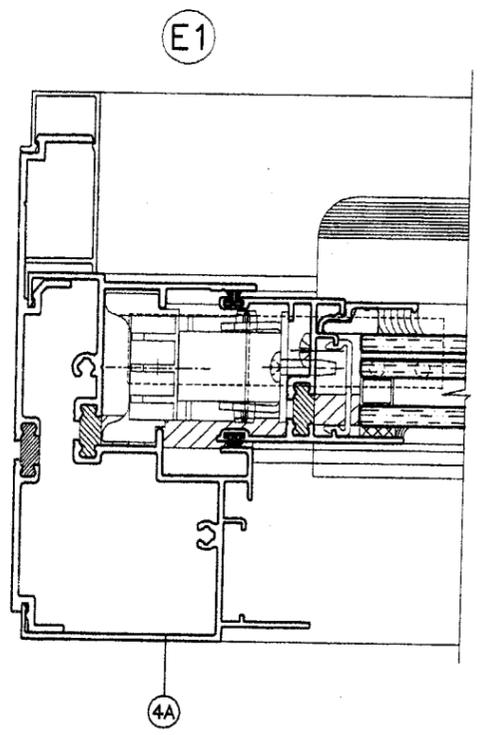
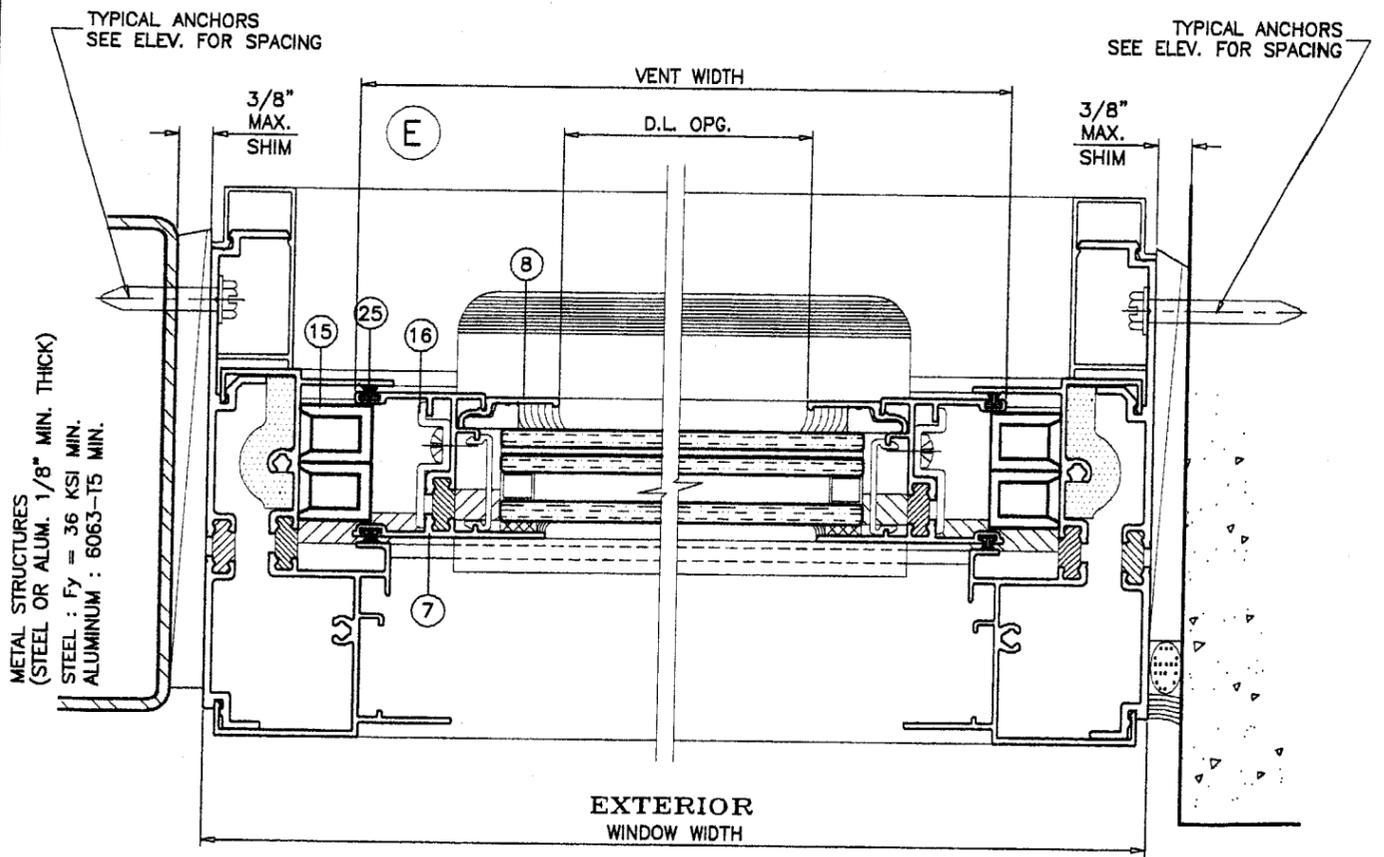
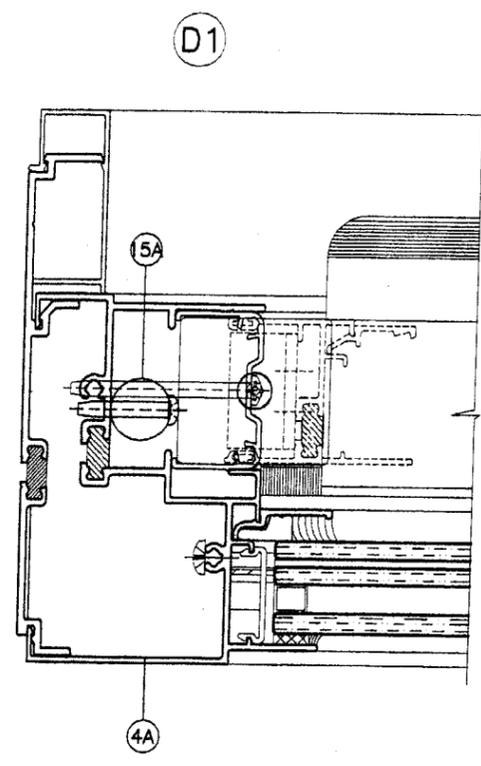
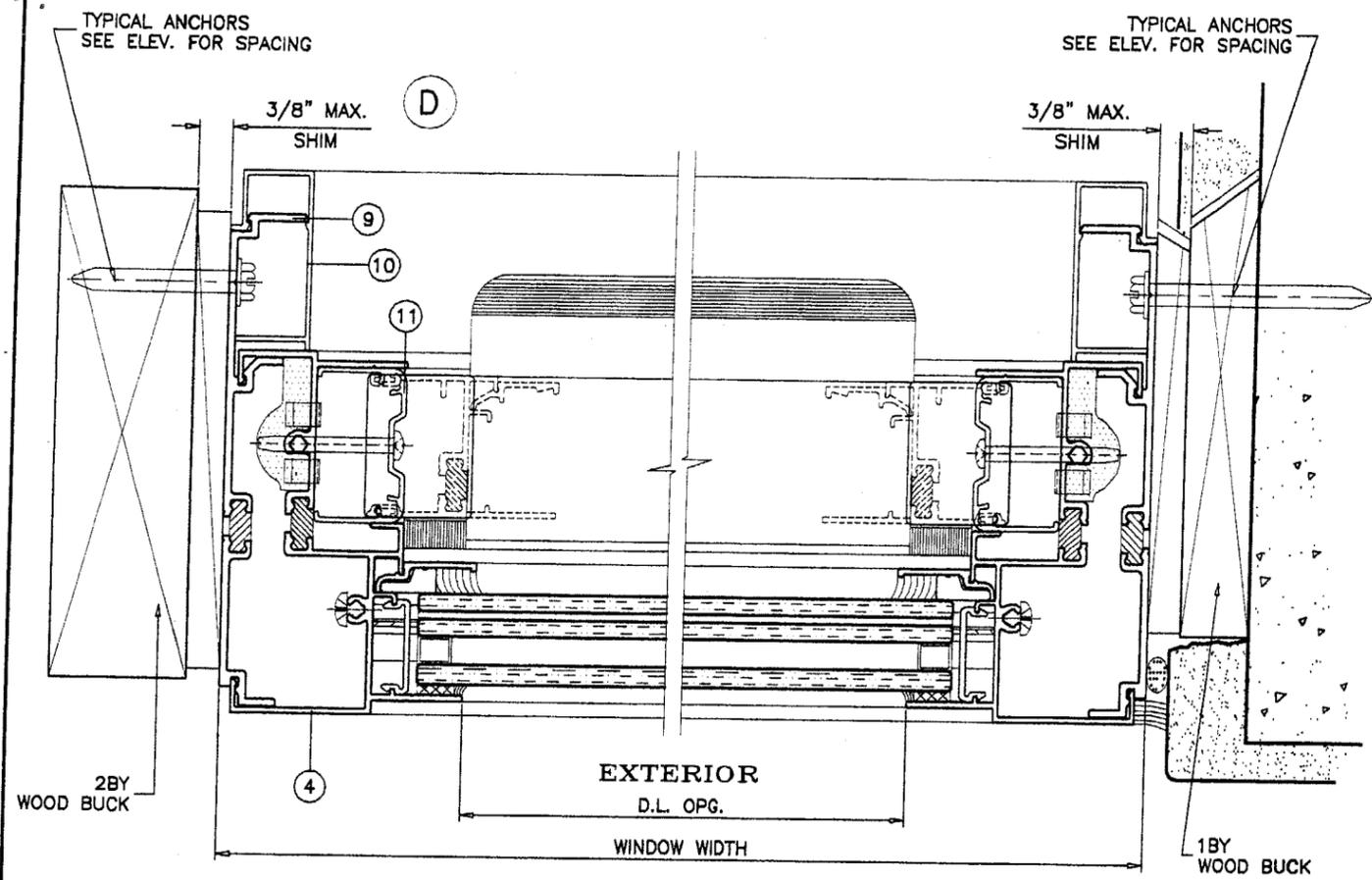
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AL-FAROOQ CORPORATION
 ENGINEERS, PLANNERS & PRODUCT DESIGN
 1235 SW 87 AVE
 MIAMI, FLORIDA 33174
 TEL. (305) 264-8100 FAX. (305) 262-6978

WS 410TUH ALUMINUM SINGLE HUNG WDW. (L.M.I.)
YKK AP AMERICA INC.
 332 FIRETOWER ROAD
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date: 08-23-04	scale: 1/2" = 1"	dr. by: HAMID	chk. by:
drawing no. W04-73			
sheet 2 of 5			

COMP-ANL W04-73YKK



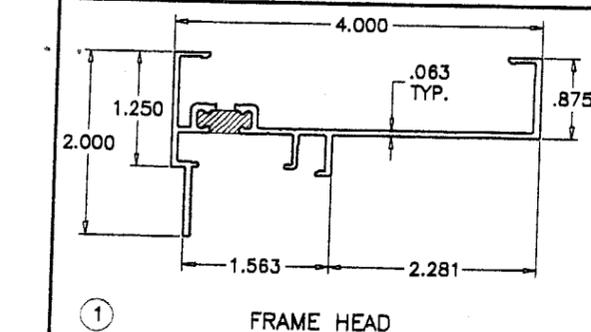
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 Miami Dade Product Control
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 By [Signature]

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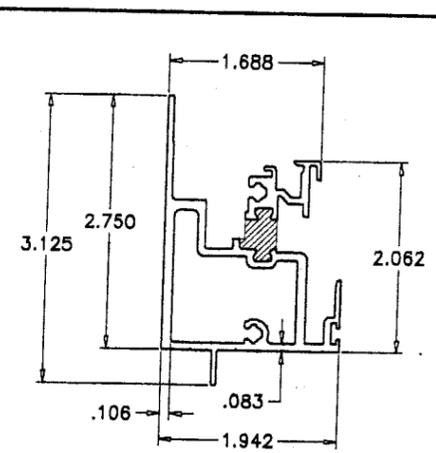
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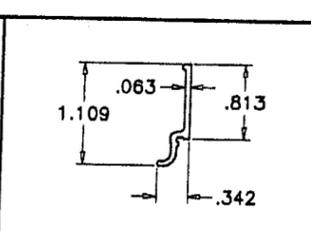
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drawing no.	W04-73			
sheet	3 of 5			



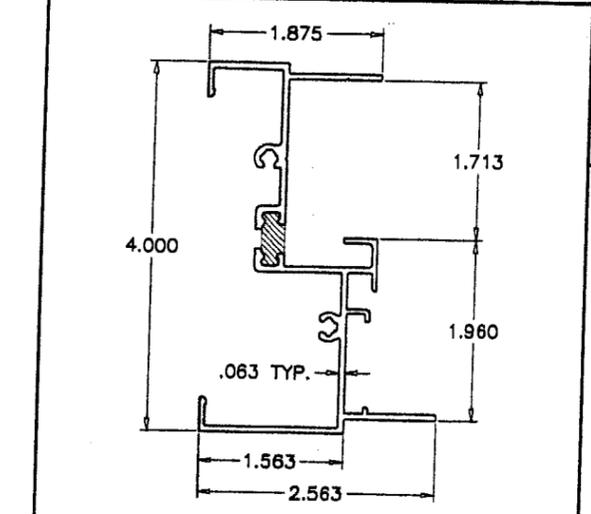
1 FRAME HEAD



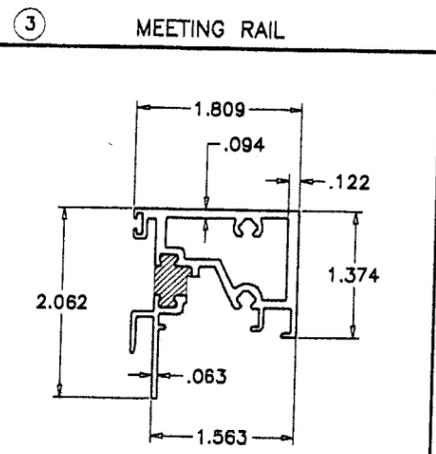
3 MEETING RAIL



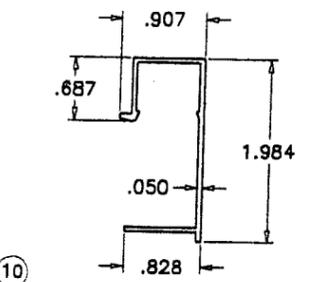
8 GLASS STOP



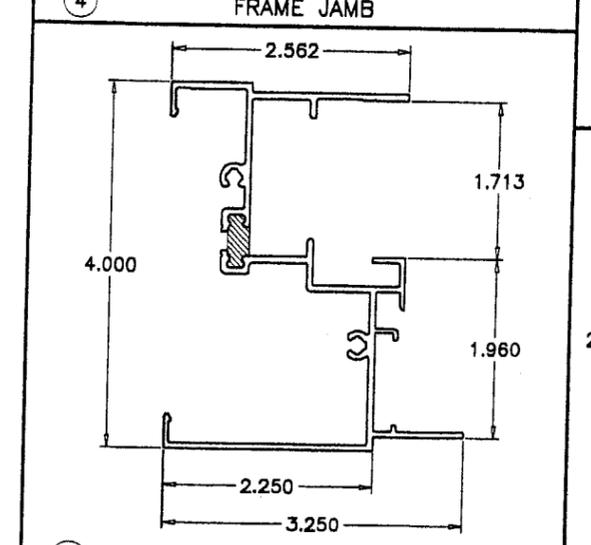
4 FRAME JAMB



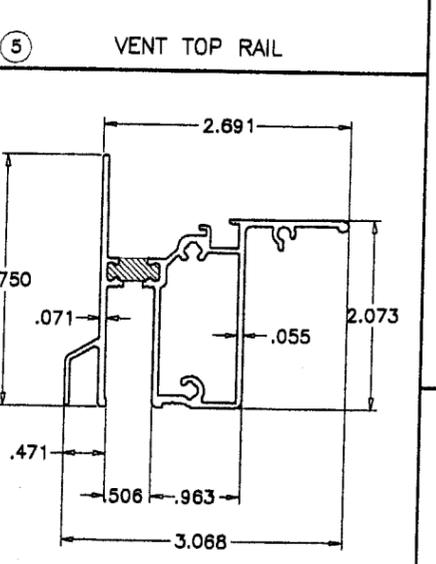
10 STRAP ANCHOR COVER



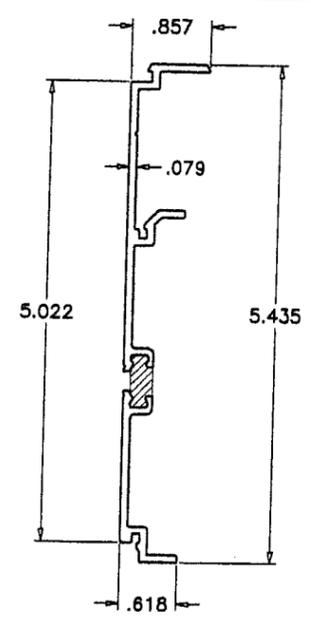
9 STRAP ANCHOR



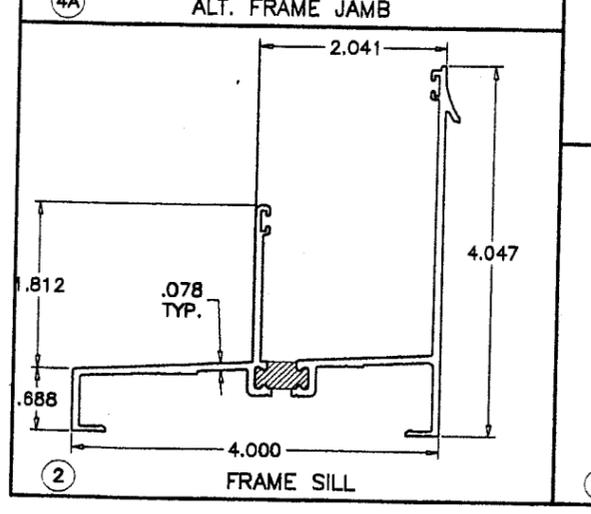
4A ALT. FRAME JAMB



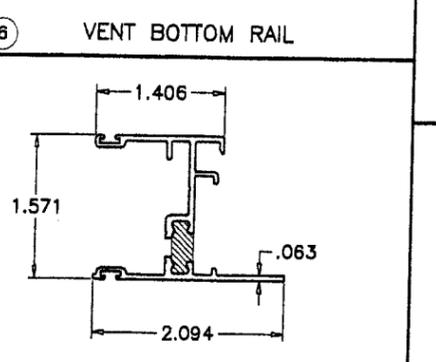
5 VENT TOP RAIL



11 VENT STOP



2 FRAME SILL



7 VENT SIDE RAIL

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	E9-4713	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	E2-0668	AS REQD.	SPACER	EPDM	SILICONE COMPATIBLE
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: 04/10/05
 NOAH 04-1113-01
 Miami Date Product Control
 Division
 By: *M. M. M.*

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

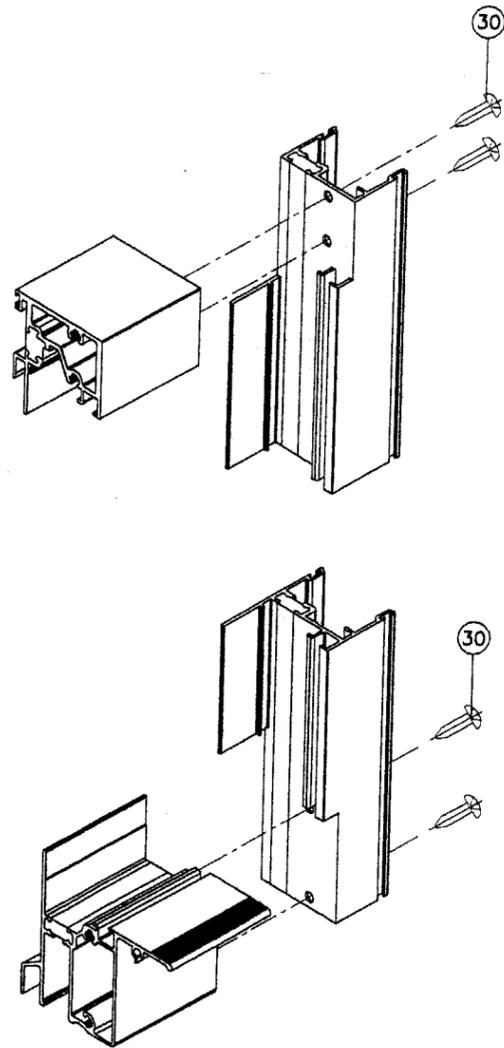
[Signature]
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 MIAMI, FLORIDA 33174
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 COMP-ANL\W04-73YK

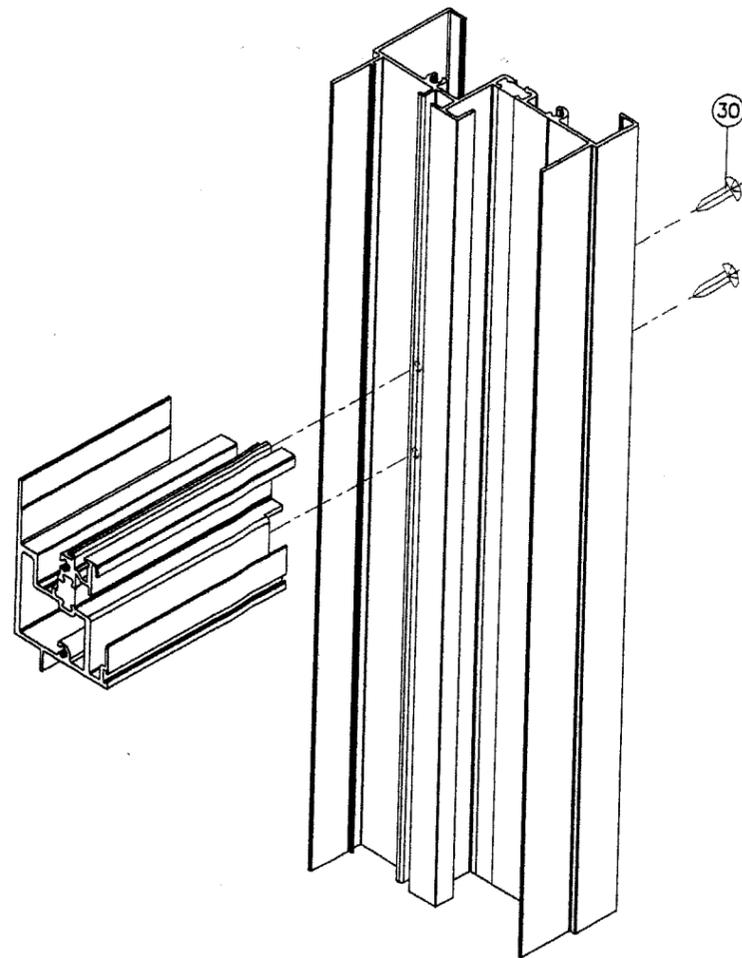
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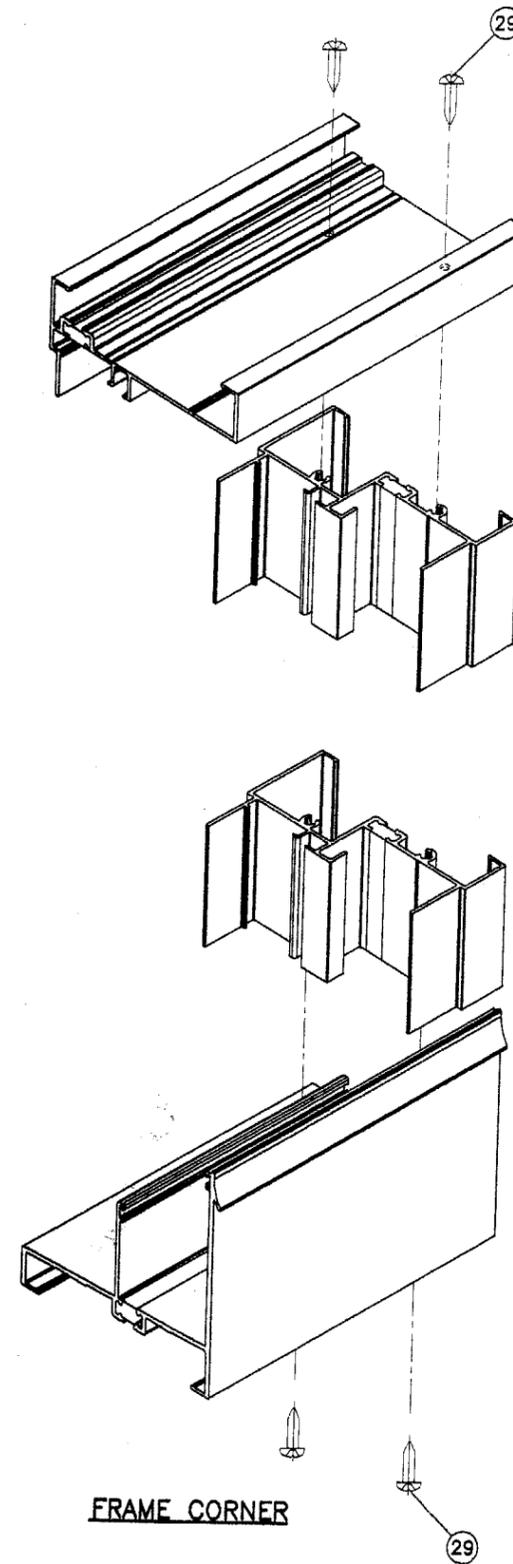
revisions:	no	date	by	description
date:	08-23-04	scale:	1/2" = 1"	
dr. by:	HAMID	chk. by:		
drawing no.	W04-73	sheet	4 of 5	



VENT CORNER



MTG. RAIL CORNER



FRAME CORNER

Approved as complying with the
 Florida Building Code
 Date 04/14/05
 NOAH 04-1113-01
 Miami-Bade Product Control
 Division
 By: M. Hade

Engr: DR. HUMAYOON FAROOQ
 STRUCTURES
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H
 MAR 09 2005

revisions:	no	date	by	description

date: 08-23-04
 scale: 3/8" = 1"
 dr. by: HAMID
 chk. by:

drawing no.
W04-73
 sheet 5 of 5

YS 410T4H ALUMINUM SINGLE HUNG WDW. (L.M.I.)

YKK AP
AMERICA INC.
 332 FIRETOWER ROAD
 DUBLIN, GEORGIA 31021
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af c
 COMP-ANL\W04-73YKK