



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)

www.buldingcodeonline.com

YKK AP America, Inc.
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 "YOW 225 TUH Thermal" Outswing Aluminum Casement Window - S.M.I.

APPROVAL DOCUMENT: Drawing No. W03-67, titled "YOW-225 TUH Aluminum Casement Wdw. (S.M.I)", sheets 1 through 7 of 7, dated 08/14/03 with revision C dated 09/17/07, prepared by Al-Farooq Corporation, signed and sealed by Humayoun Farooq, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Small Missile Impact Resistant

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 revises and renews NOA # 03-1006.08 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



NOA No. 07-1114.10
Expiration Date: January 08, 2014
Approval Date: February 04, 2009
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **W03-67**, titled "YOW-225 TUH Aluminum Casement Wdw. (S.M.I)", sheets 1 through 7 of 7, dated 08/14/03 with revision C dated 09/17/07, prepared by Al-Farooq Corporation, signed and sealed by Humayoun Farooq.

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) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Large Missile Impact Test per FBC, TAS 201-94
along with marked-up drawings and installation diagram of a thermal aluminum casement window, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HTL-G231-0608-07, specimen #3**, dated 06/25-28/07, 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) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94
along with marked-up drawings and installation diagram of an aluminum casement window, prepared by Hurricane Test Laboratory, Inc. Test Report No. **HTL-0231-1210-02**, dated 02/10/03, signed and sealed by Vinu J. Abraham, P.E.
3. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an aluminum casement window, prepared by Hurricane Test Laboratory, Inc. Test Report No. **HTL-0231-0810-02** dated 8/12/02, 08/14/02, 08/21/02 signed and sealed by Vinu J. Abraham, P.E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2004, prepared by Al-Farooq Corporation, dated 10/12/07, signed and sealed by Humayoun Farooq, P.E.
Complies with ASTM E1300/02

D. QUALITY ASSURANCE

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


Manuel Perez, P.E.
Product Control Examiner
NOA No. 07-1114.10

Expiration Date: January 08, 2014
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E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **05-1208.02** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Butacite PVB Interlayer**" dated 01/05/06, expiring on 12/11/10.
2. Notice of Acceptance No. **06-0216.06** issued to Solutia Inc. for their "**Saflex III G Clear or colored Interlayer**" dated 05/04/06, expiring on 05/21/11.

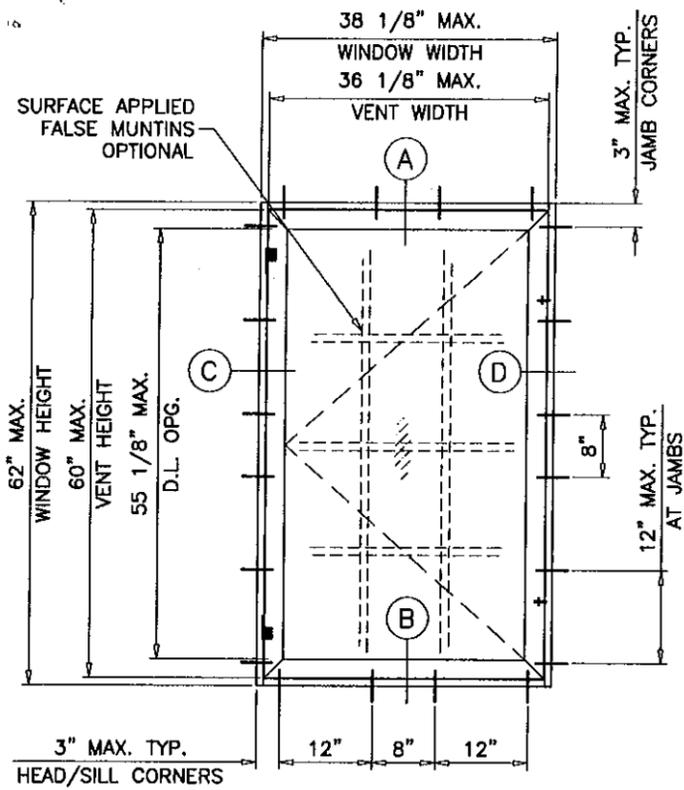
F. STATEMENTS

1. Statement letter of conformance, dated September 25, 2007, signed and sealed by Humayoun Farooq, P.E.
2. Statement letter of no financial interest, dated September 25, 2007, signed and sealed by Humayoun Farooq, P.E.

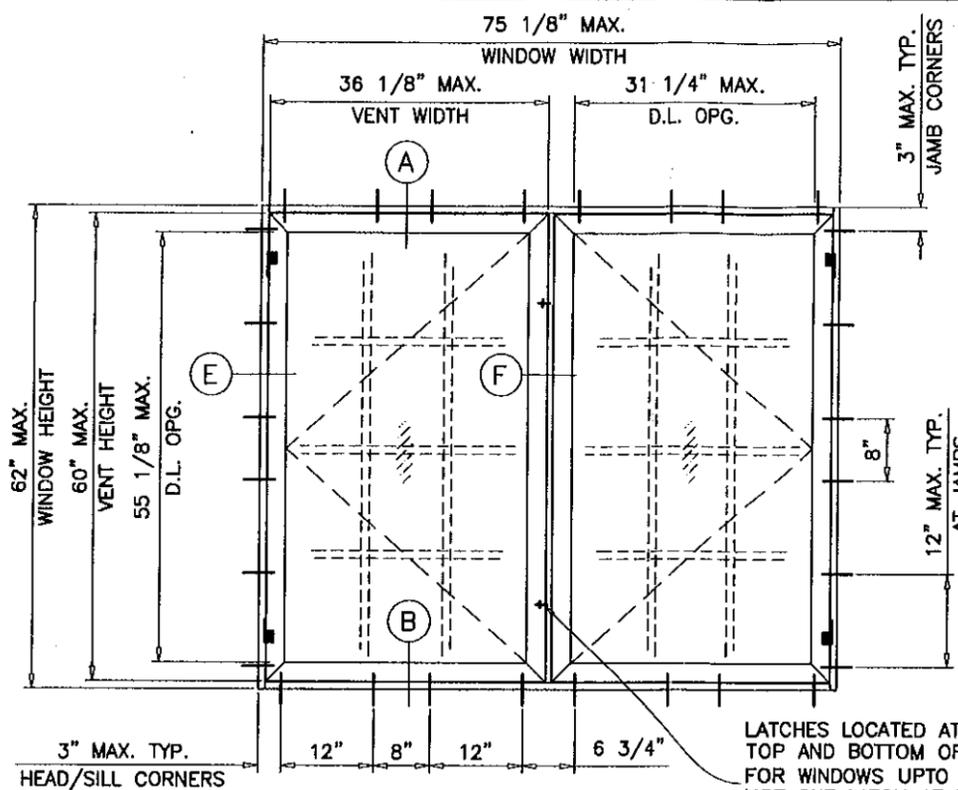
G. OTHER

1. Notice of Acceptance No. **03-1006.08**, issued to YKK AP America, Inc. for their Series "**YOW-225H**" Aluminum Casement Window (S.M.I.), approved on 01/08/04 and expiring on 01/08/09.

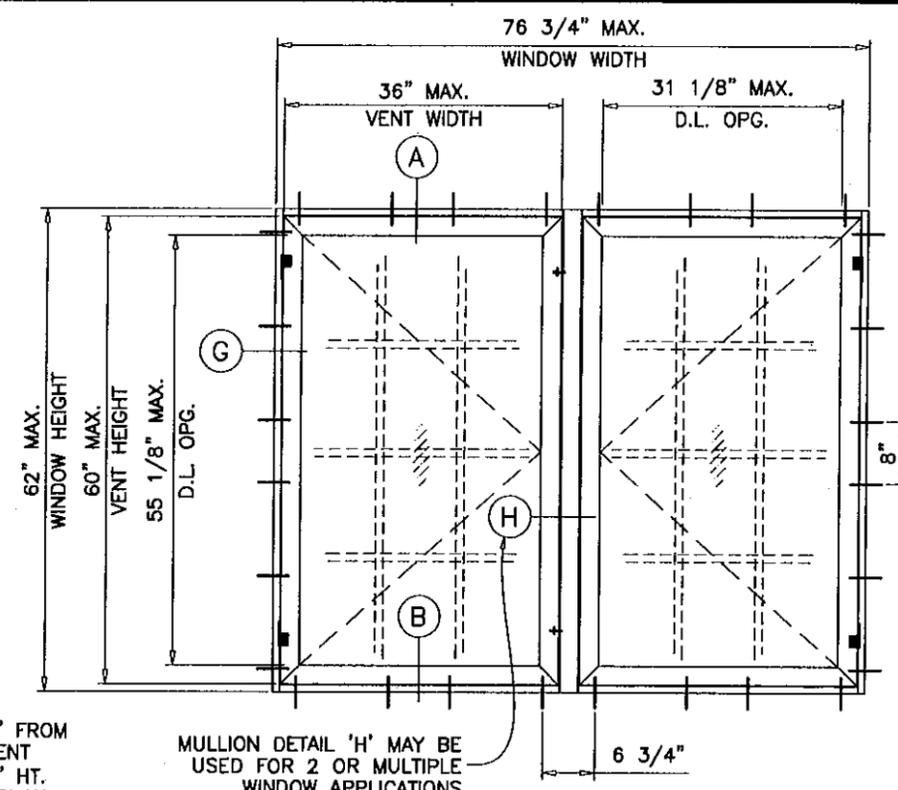

Manuel Perez, P.E.
Product Control Examiner
NOA No. 07-1114.10
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SINGLE VENT WDW.



DUAL VENT WDW.



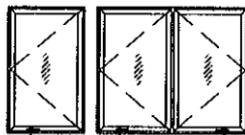
SIDE BY SIDE WDWS.

LATCHES LOCATED AT 8" FROM TOP AND BOTTOM OF VENT FOR WINDOWS UP TO 31" HT. USE ONE LATCH AT MIDSPAN OF VENT SIDE

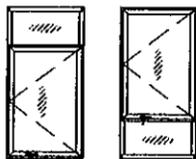
MULLION DETAIL 'H' MAY BE USED FOR 2 OR MULTIPLE WINDOW APPLICATIONS

**YOW 225 TUH
THERMAL ALUMINUM CASEMENT WINDOWS**

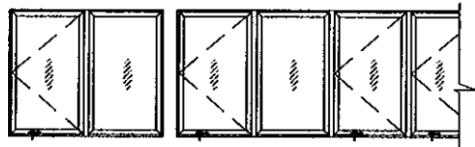
APPROVAL APPLIES TO SINGLE VENT WINDOWS OR DUAL VENT WINDOWS USING INTEGRAL IMPOST.



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 MIAMI-DADE COUNTY APPROVED MULLIONS IN BETWEEN.



THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 EDITION INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

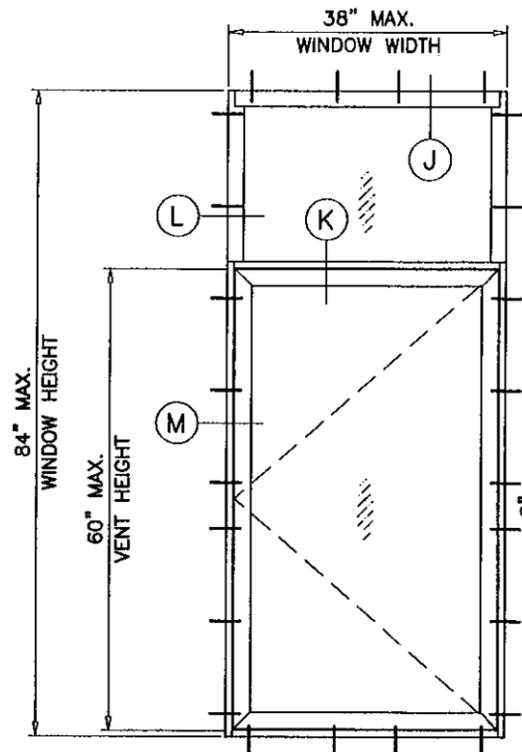
WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

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

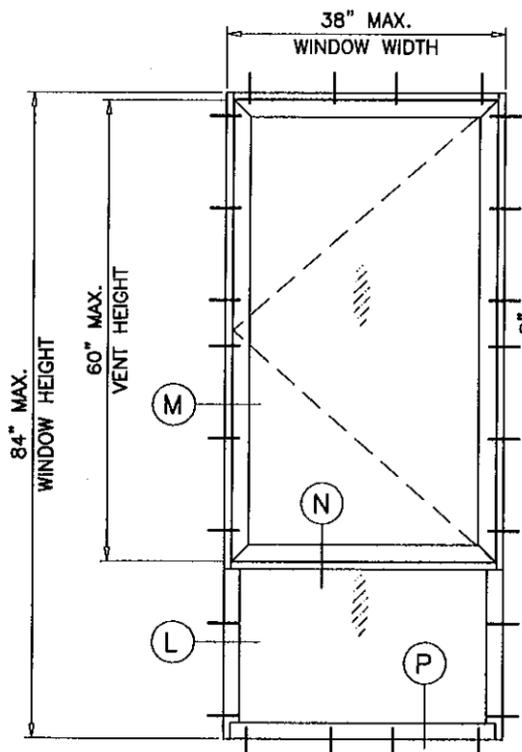
ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

A LOAD DURATION INCREASE IN ALLOWABLE STRESS 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 2004 FLORIDA BLDG. CODE SECTION 2003.8.4.



FIXED/CASEMENT WDWS.



CASEMENT/FIXED WDWS.

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

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

**LAMINATED INSULATING GLASS
SMALL MISSILE IMPACT**

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

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 07-114-10
Expiration Date JAN. 8, 2014

OCT 25 2007
Manuel Perez
Miami Dade Product Control
Division

af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COMP-ANL\W03-67YKK

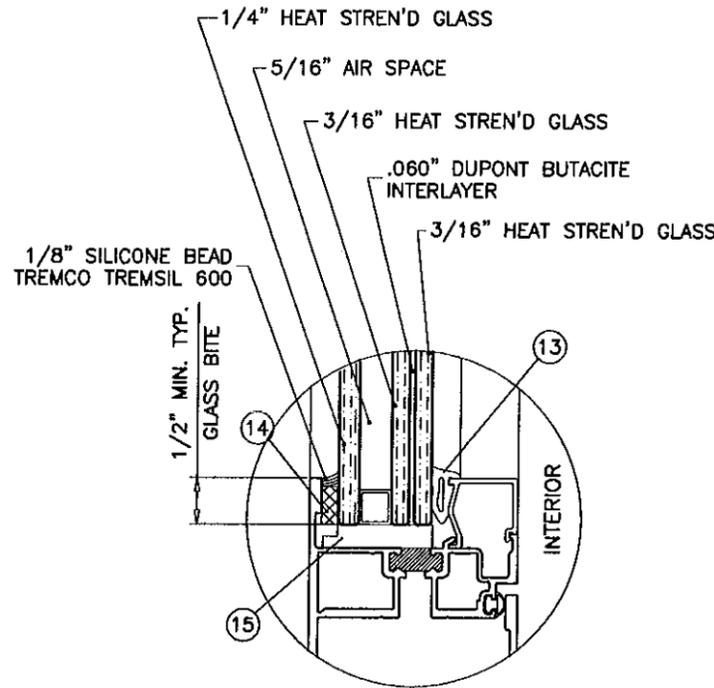
YOW-225 TUH ALUMINUM CASEMENT WDW. (S.M.I.)
YKK AP AMERICA INC.
332 FIRETOWER ROAD
DUBLIN, GEORGIA 31021
TEL (478) 277-1955 FAX (478) 277-1978

no	date	description
A	10.31.03	REV. PER BCCO COMMENTS
B	04.07.05	GLAZING OPTIONS ADDED
C	09.17.07	GENERAL REVISION

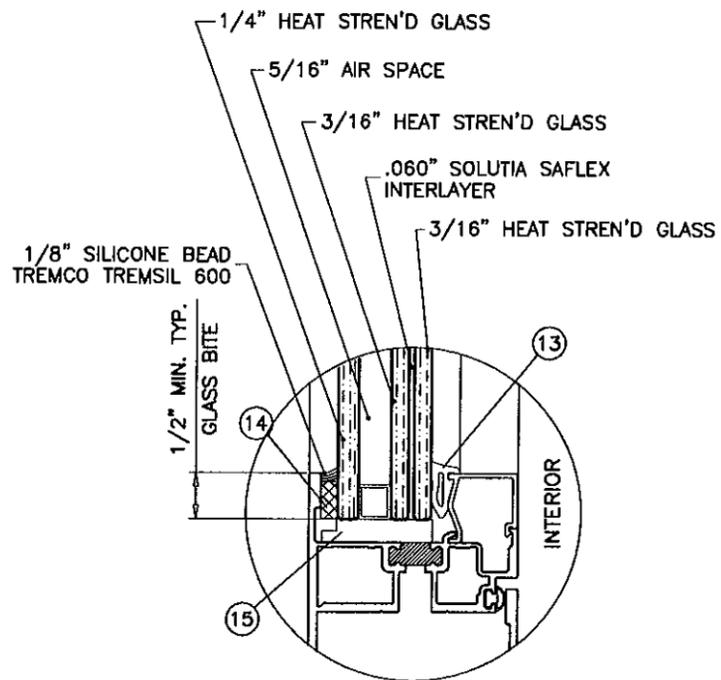
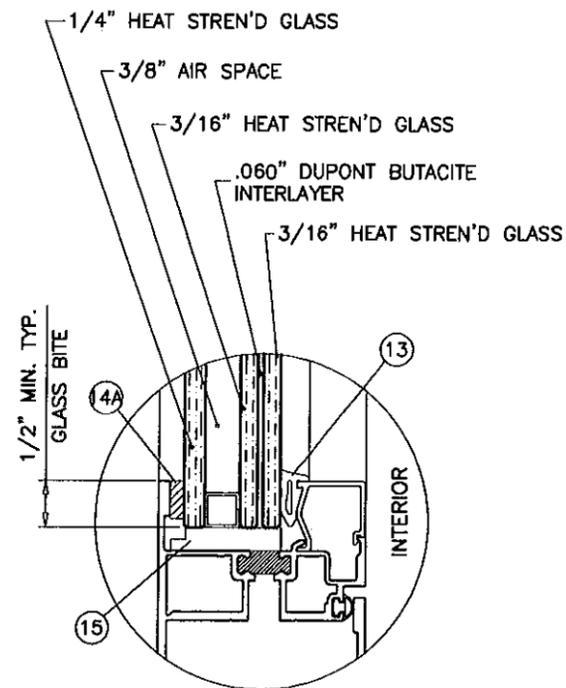
revisions:

date: 08-14-03
scale: 1/2" = 1'-0"
dr. by: HAMID
chk. by:

drawing no. **W03-67**
sheet 1 of 7



GLASS TYPE 'F'



GLASS TYPE 'G'

1-1/16" OVERALL LAMINATED GLASS
SMALL MISSILE IMPACT RESISTANT

GLAZING OPTIONS

SEALANTS:

FRAME CORNERS JOINTS SEALED WITH BUTYL RUBBER
CORNER GASKET (#E2-0644).
TREMCO SPECTRUM 2 SILICONE SEALANT AT PERIMETER.

WEEP HOLES:

W1 = 1/4" X 1-1/16" WEEP SLOT AT CENTERLINE.
W2 = 9/32" DIA. WEEP HOLES AT 4" FROM EACH CORNER

LOCK OPTIONS:

OPTION #1:

BRONZECRAFT CAM HANDLES (E1-1541/1542)
AT LOCK STILE OF VENT, 8" FROM EACH END
SECURED WITH (2) #10 X 1/2" FH SMS.

BRONZECRAFT KEEPERS (E1-519)
AT FRAME JAMB FACING LOCKS
SECURED WITH (2) #10 X 1/2" FH SMS.
SEE DTL. 'F' ON SHEET 4

OPTION #2:

PULL HANDLE (E1-1508) AT LOCK STILE
SECURED WITH (2) #8 X 1/2" FH SMS.

MULTI-POINT LOCK ASSEMBLY
(E1-1505, E1-1704, E1-1717, E1-1701, E1-1703)
AT FRAME JAMB, ENGAGEMENT POINTS 8" FROM ENDS

BRONZECRAFT KEEPERS (E1-1556)
AT VENT LOCK STILE FACING LOCKS
SECURED WITH (2) #10 X 1/2" FH SMS.
SEE DTL. 'G' ON SHEET 4

HINGE OPTIONS:

OPTION #1:

BUTT HINGE (E1-1714/1715)
EACH HINGE SECURED TO FRAME WITH
(3) #10-24 X 7/16 PL PH MS AND TO
L-ANGLE WITH (3) #10-24 X 7/16" PL PH MS
L-ANGLE SECURED TO VENT WITH
(3) #10-24 X 1/2" PL PH SMS

OPTION #2:

16", 4-BAR SCISSOR HINGE (YKK #4K-14208)
HINGE SECURED TO BASE WITH
(3) #10-24 X 3/8 PL PH SMS AND TO
VENT WITH (3) #10-24 X 3/8" PL FH SMS

NOTE:
GLASS CAPACITIES ARE
BASED ON ASTM E1300-02 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

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

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 07-1114.16
Expiration Date JAN. 8, 2014

By: *Muhammad Dera*
Miami Code Product Control
Division

OCT 25 2007

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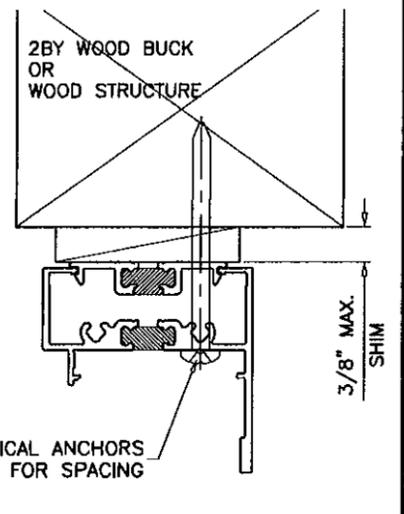
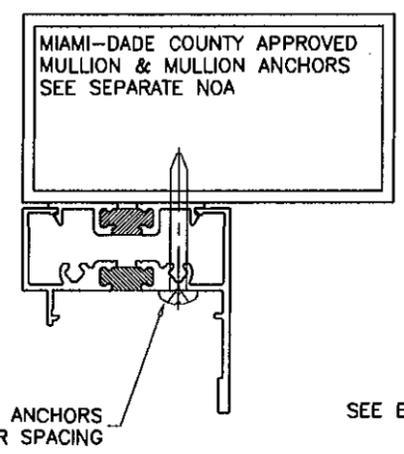
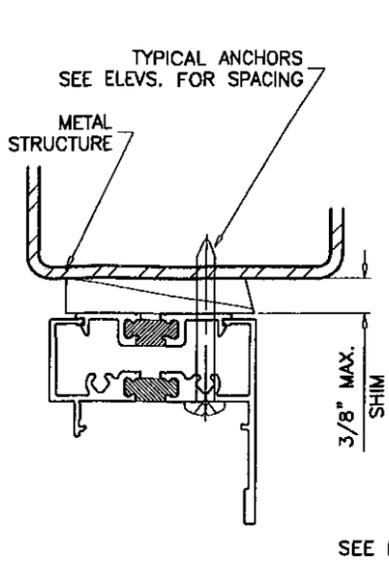
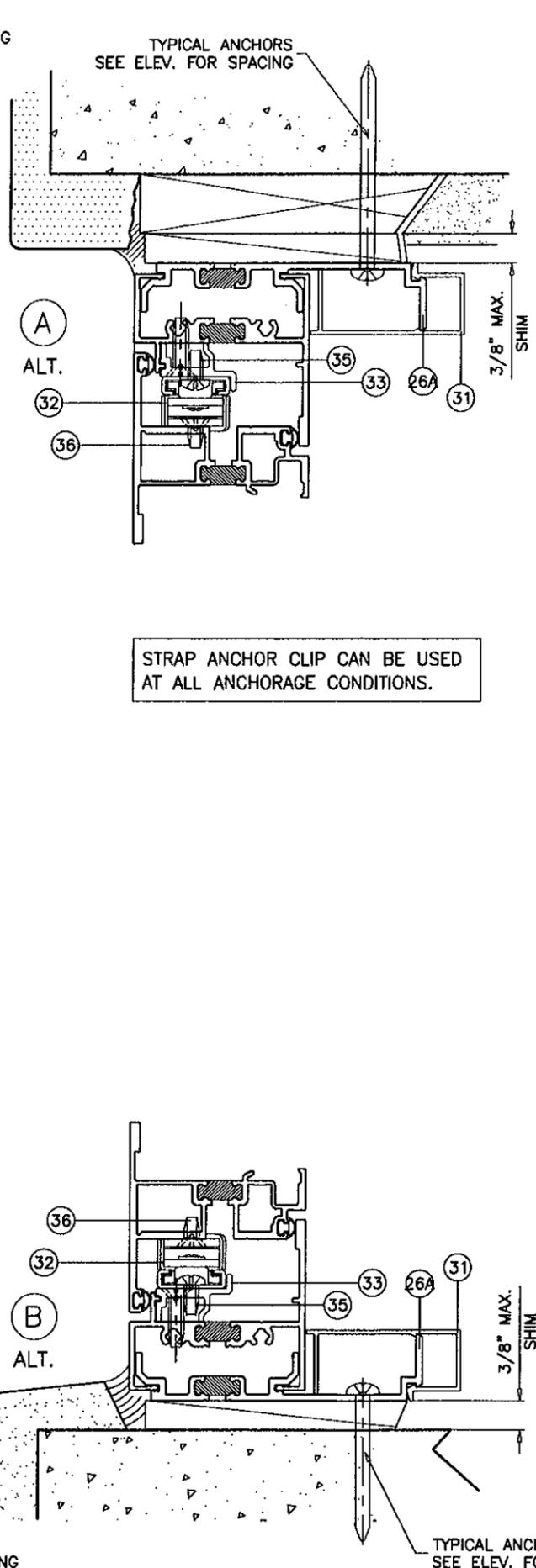
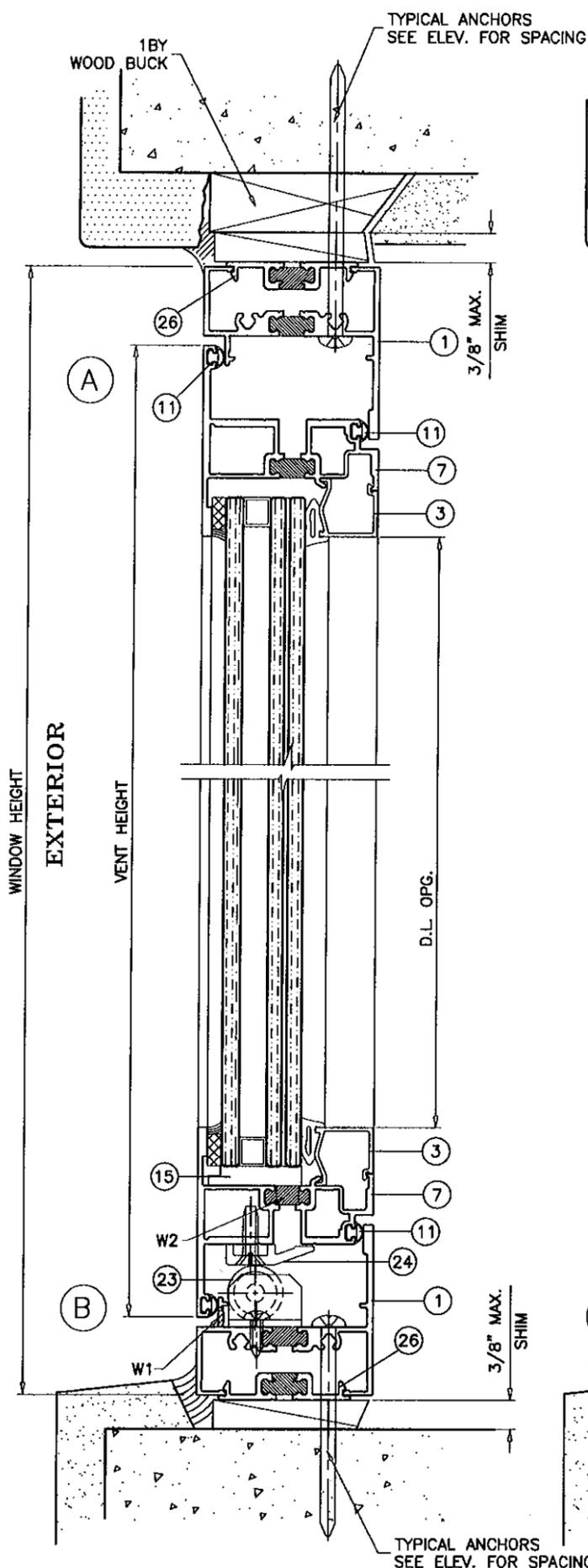
YOW-225 TUH ALUMINUM CASEMENT WDW. (S.M.I.)
YKK AP AMERICA INC.
332 FIRETOWER ROAD
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TEL (478) 277-1955 FAX (478) 277-1978

no	date	by	description
A	10.31.03		NO CHANGE THIS SHEET
B	04.07.05		GLAZING OPTIONS ADDED
C	09.17.07		GENERAL REVISION

date: 08-14-03
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
W03-67

sheet 2 of 7



STRAP ANCHOR CLIP CAN BE USED AT ALL ANCHORAGE CONDITIONS.

WOOD BUCKS AND METAL STRUCTURE 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" TAPCONS**
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-1/2" 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

- 1/4" DIA. TEKS/DRIL-FLEX SELF DRILLING SCREWS**
 INTO METAL STRUCTURES
 STEEL : 12 GA. 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**
 INTO MIAMI-DADE COUNTY APPROVED MULLIONS (MIN. THK. = .090")
 (NO SHIM SPACE)

- TYPICAL EDGE DISTANCE**
 INTO CONCRETE AND MASONRY = 2" MIN.
 INTO WOOD STRUCTURE = 1" MIN.
 INTO METAL STRUCTURE = 1/2" MIN.

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

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 Expiration Date JAN. 8, 2014
 By: *Manuel Perez*
 Miami-Dade Product Control
 Division

af c
AL-FAROOQ CORPORATION
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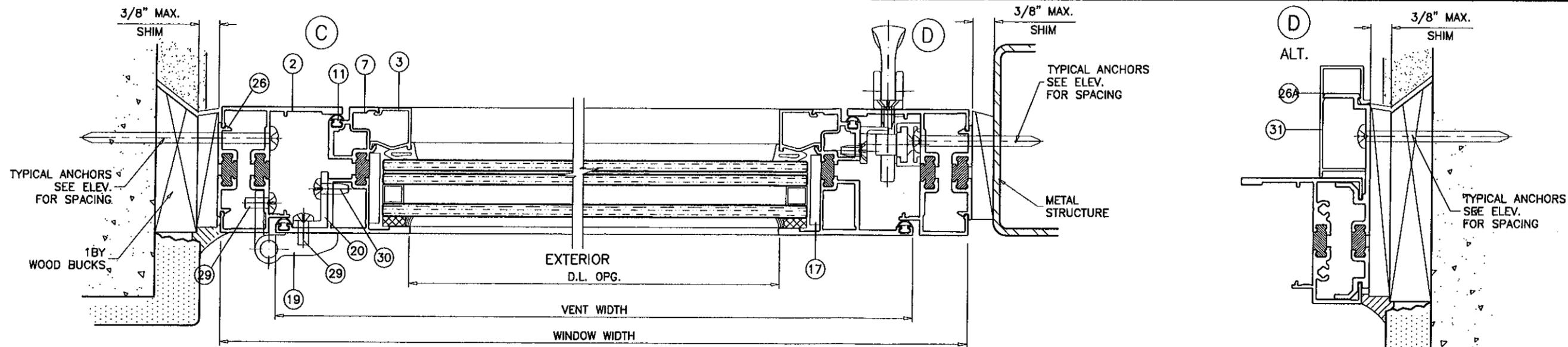
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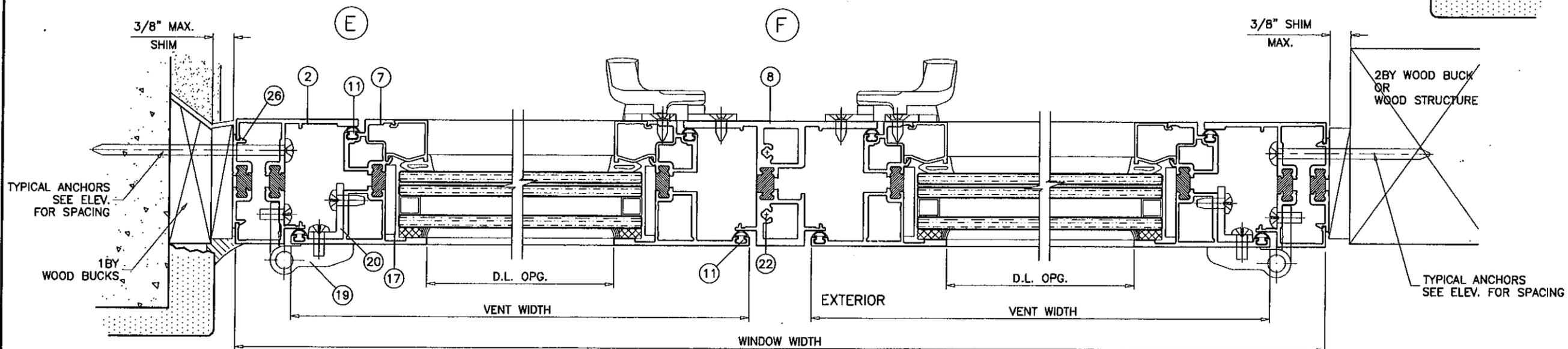
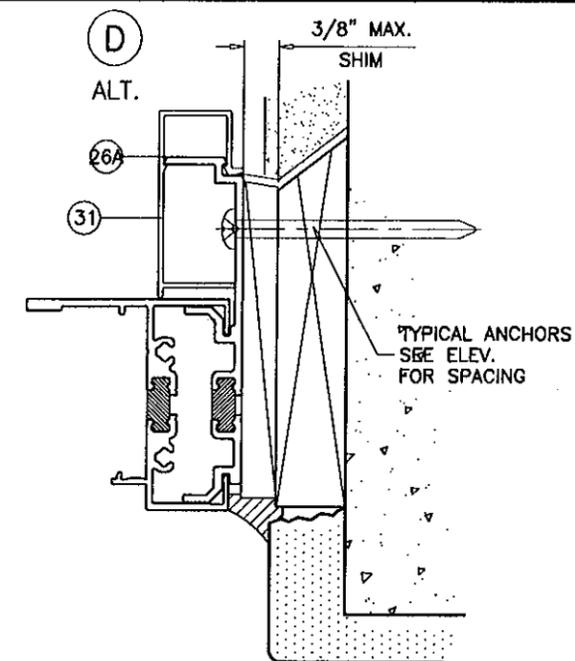
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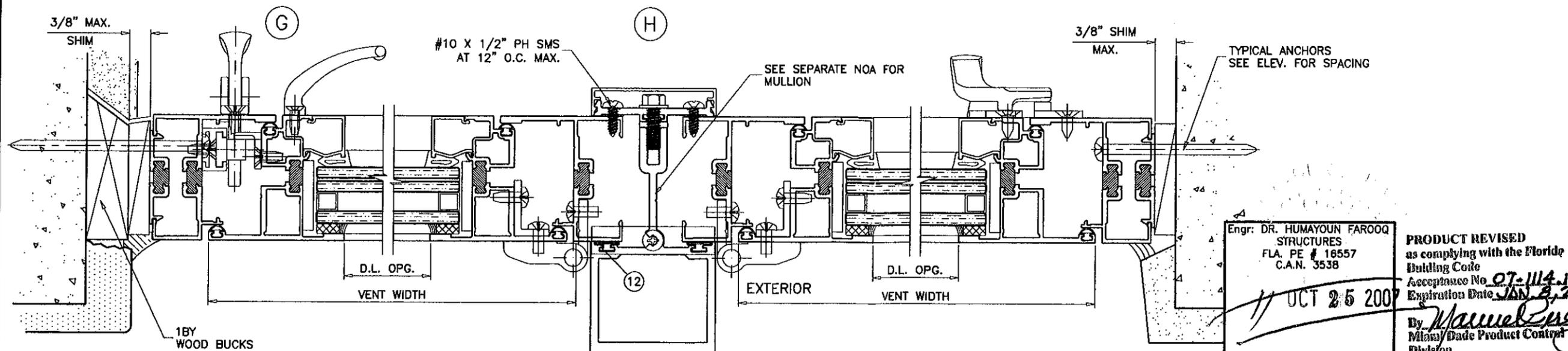
sheet 3 of 7



SINGLE VENT WINDOWS



DUAL VENT WINDOWS



SIDE BY SIDE WINDOWS

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

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By *Manuel Pina*
Miami Dade Product Control
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OCT 25 2007

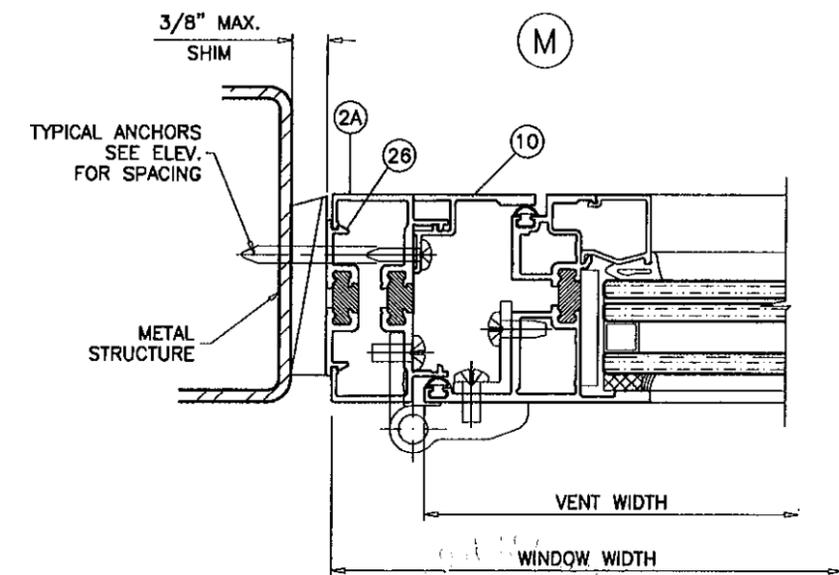
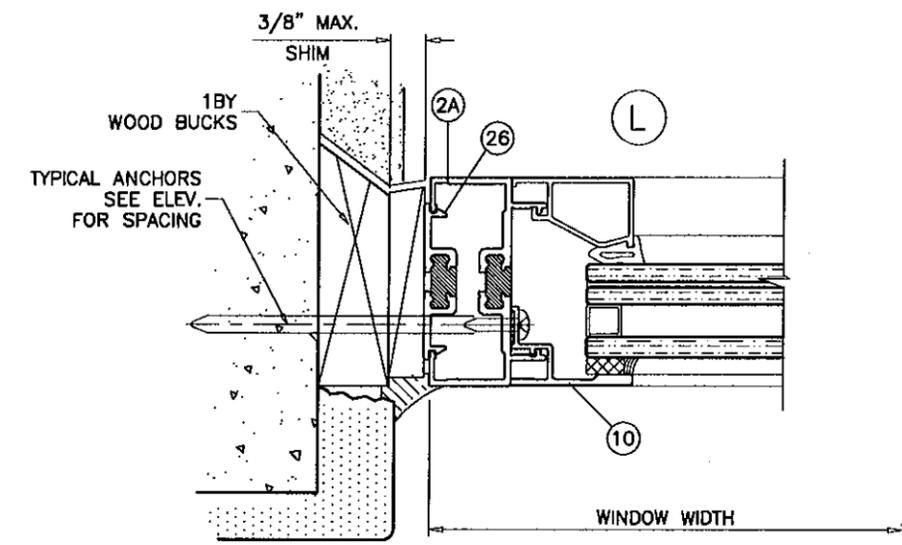
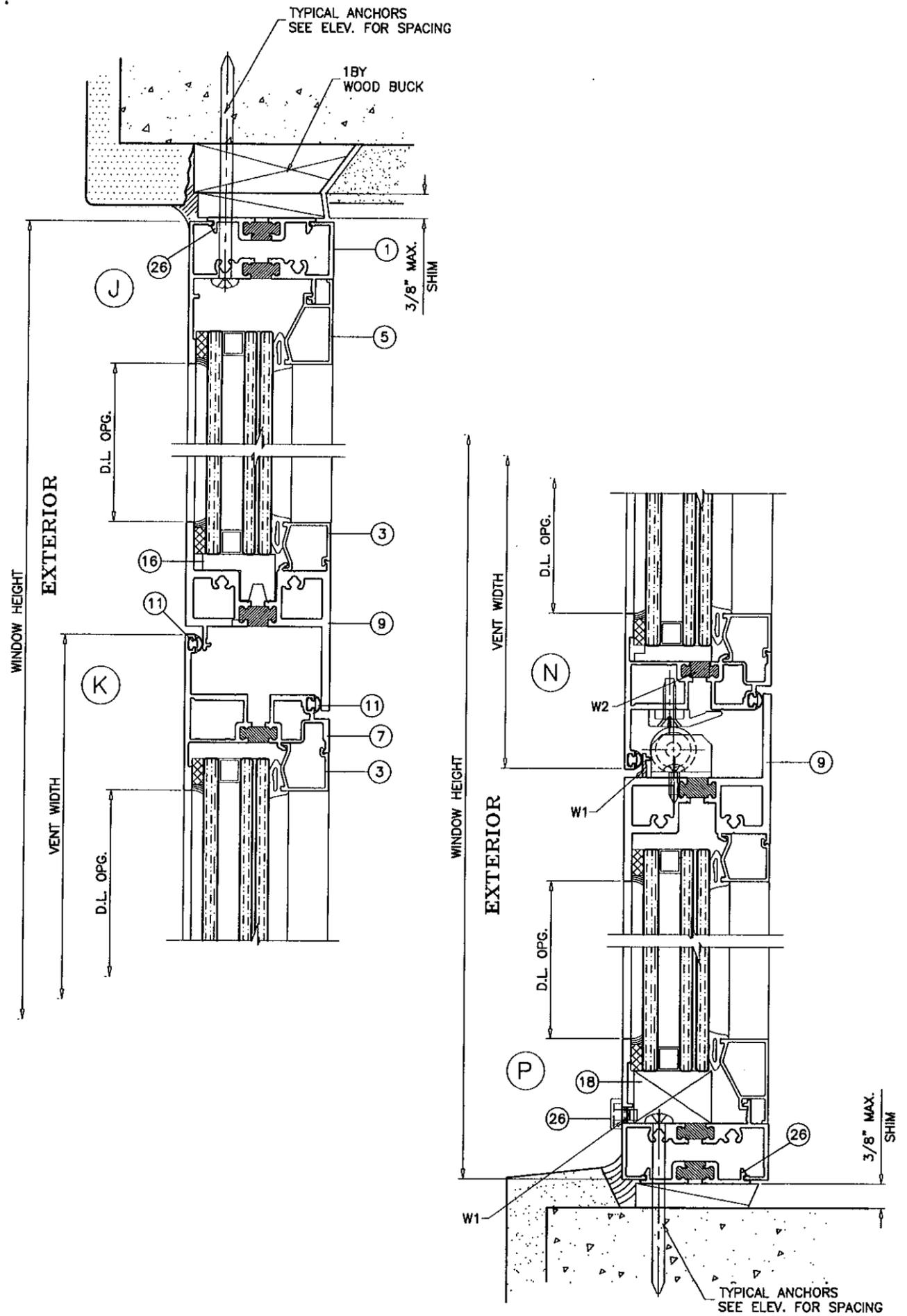
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dr. by: HAMID
chk. by:

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sheet 4 of 7



Engr: DR. HUMAYOON FAROOQ
 STRUCTURES
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OCT 25 2007

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By *Manuel Perez*
 Miami Dade Product Control
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YOW-225 TUB ALUMINUM CASEMENT WDW. (S.M.I.)

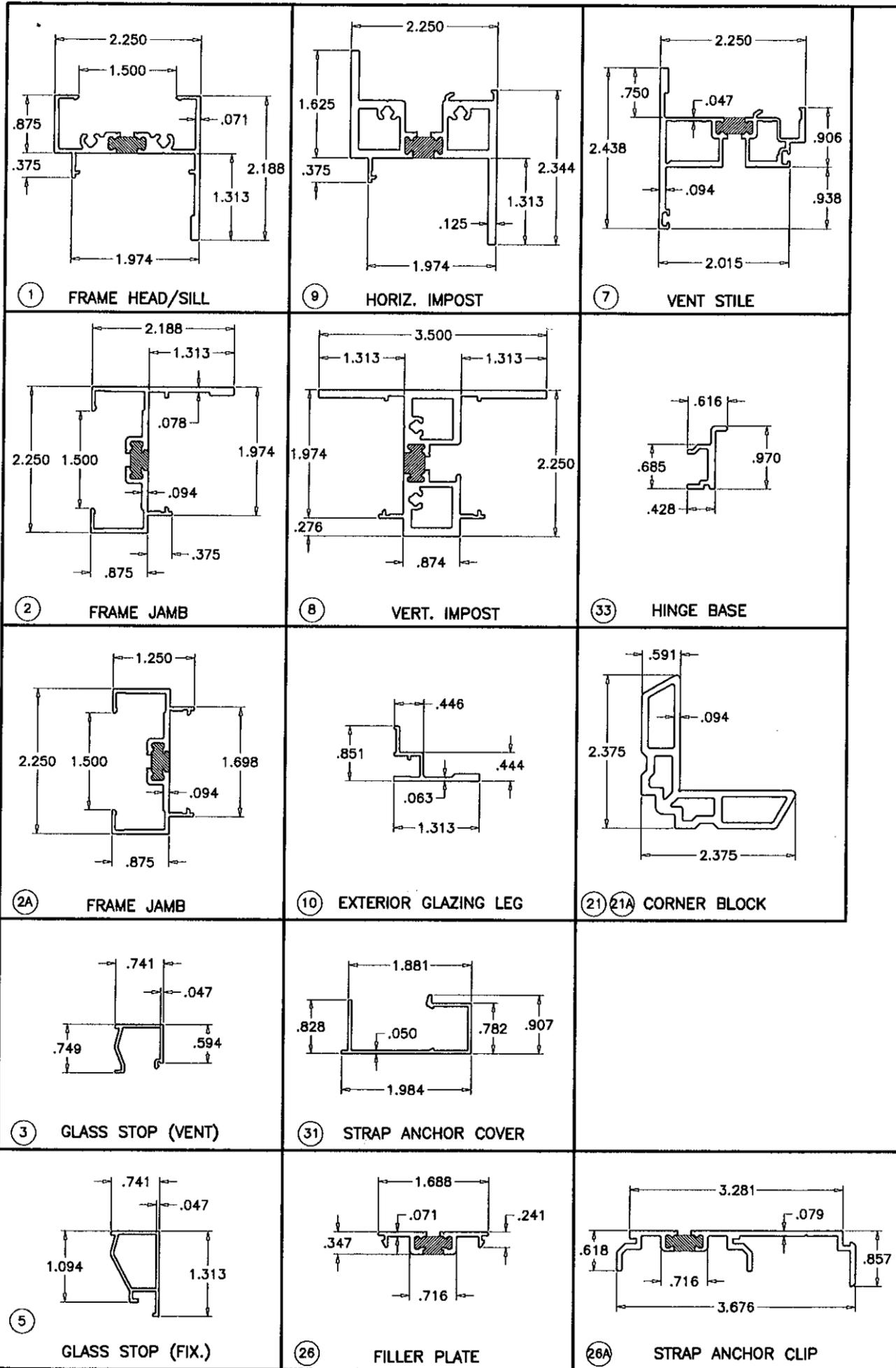
YKK AP AMERICA INC.
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drawing no. **W03-67**
 sheet 5 of 7



Engr: DR. HUMAYOON FAROOQ
STRUCTURES
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by: *Mauro P...*
Miami Dade Product Control
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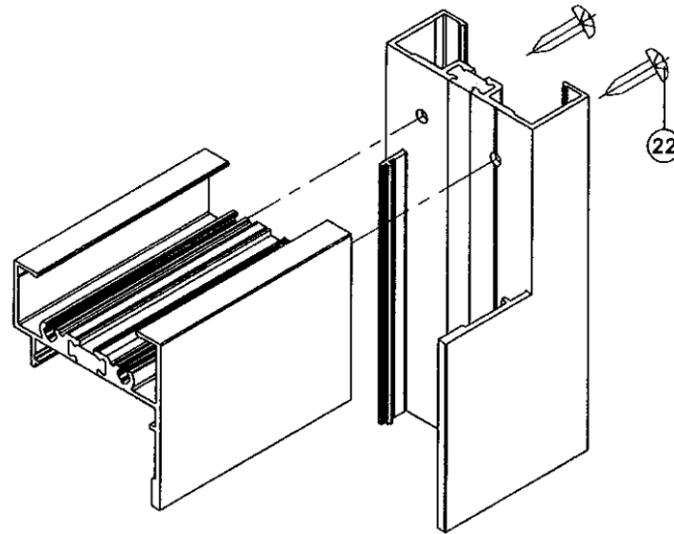
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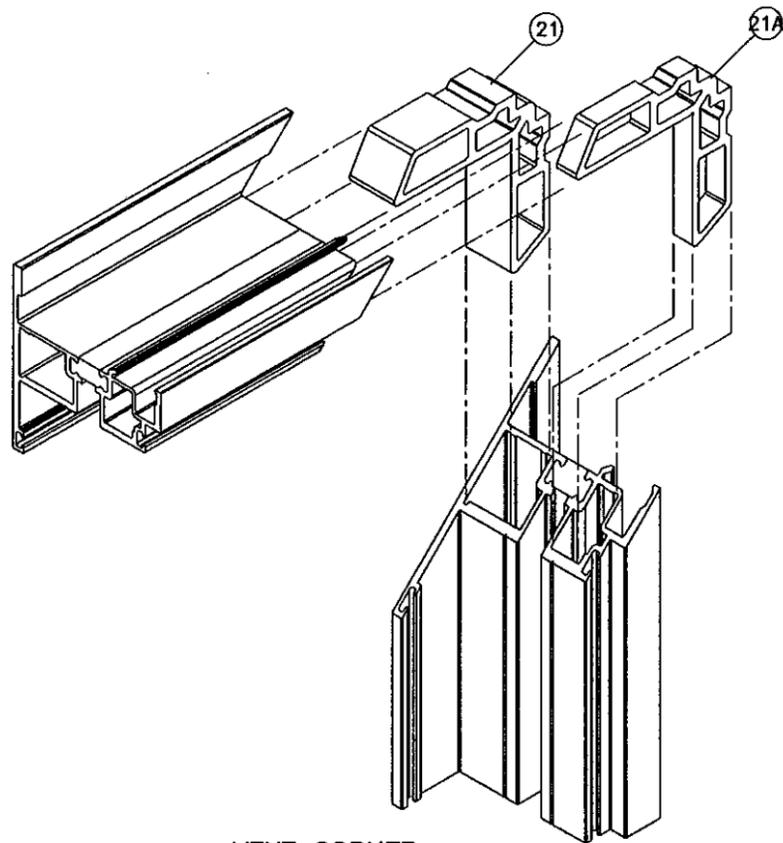
no.	date	description
A	10.31.03	REV. PER BCCO COMMENTS
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dr. by: HAMID
chk. by:

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W03-67
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FRAME CORNER



VENT CORNER

ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPLIER/REMARKS
1	BE9-4501	2/ WDW	FRAME HEAD/SILL	6063-T5	YKK AP AMERICA INC.
2	BE9-4502	2/ WDW	FRAME JAMB (VENT)	6063-T5	YKK AP AMERICA INC.
2A	BE9-4503	AS REQD.	FRAME JAMB (FIX. LITE)	6063-T5	YKK AP AMERICA INC.
3	E9-4506	4/ WDW	GLAZING STOP (VENT)	6063-T5	YKK AP AMERICA INC.
5	E9-4507	4/ WDW	GLAZING STOP (FIX. LITE)	6063-T5	YKK AP AMERICA INC.
7	BE9-4534	4/ WDW	VENT STILE	6063-T5	YKK AP AMERICA INC.
8	BE9-4512	AS REQD.	VERT. IMPOST (XX)	6063-T5	YKK AP AMERICA INC.
9	BE9-4509	AS REQD.	HORIZ. IMPOST (X/O OR O/X)	6063-T5	YKK AP AMERICA INC.
10	E9-4513	AS REQD.	EXTERIOR GLAZING LEG	6063-T5	YKK AP AMERICA INC.
11	E2-0625	AS REQD.	BULB WEATHERSTRIPPING	PVC	YKK AP AMERICA INC.
12	E2-0051	AS REQD.	BULB W'STRIPPING AT MULLION	PVC	YKK AP AMERICA INC.
13	E2-0617	AS REQD.	WEDGE GASKET	EPDM	-
14	E2-0670	AS REQD.	BACKER TAPE FOR 1/8" F.C.	POLYURETHANE	-
14A	E2-0648	AS REQD.	1/8" EXTERIOR GASKET	EPDM SPONGE	-
15	E2-0626	AS REQD.	SETTING BLOCKS (VENT)	EPDM	1/4" X 1-3/16" X 4" LONG
16	E2-0647	AS REQD.	SETTING BLOCKS (FIX. LITE)	EPDM	11/16" X 1-1/8" X 4" LONG
17	E2-0133	AS REQD.	SIDE BLOCKS (VENT)	EPDM	-
18	E2-0646	AS REQD.	SETTING BLOCKS (FIX. LITE)	EPDM	13/16" X 1-3/16" X 4" LONG
19	E1-1714/1715	2/ VENT	BUTT HINGES AT 7-1/2" FROM EACH END	6063-T5	-
20	E1-1723	1/ HINGE	HINGE ANGLE	6063-T5	-
21	E1-1786	1/ CORNER	CORNER BLOCK, .684" LONG	6063-T5	YKK AP AMERICA INC.
21A	E1-1787	1/ CORNER	CORNER BLOCK, .292" LONG	6063-T5	YKK AP AMERICA INC.
22	#10 X 1"	2/ CORNER	FRAME ASSEMBLY SCREWS	STEEL	PH SMS
23	K-10639	.1/ VENT	GUIDE ROLLER ASSEMBLY	-	SECURED TO SILL W/ (2) #8 X 1/2" PH SMS
24	E1-1713	1/ VENT	GUIDE ROLLER BASE	-	SECURED TO VENT W/ (2) #10 3/4" FH SMS
25	E3-1127	1/ WDW	WEEP COVER	NYLON	AT WEEP SLOTS (AT FIXED ONLY)
26	BE9-4566	AS REQD.	FILLER PLATE, 3" LONG AT ANCHOR LOCATIONS	6063-T5	YKK AP AMERICA INC.
26A	BE9-4529	AS REQD.	STRAP ANCHOR, 4-1/2" LONG AT ANCHOR LOCATIONS	6063-T5	YKK AP AMERICA INC.
29	#10 X 7/16"	3/ HASP	HINGE INSTALLATION SCREWS	-	PH MS
30	#10 X 1/2"	3/ ANGLE	HINGE ANGLE SCREWS	-	PH SMS
31	E9-8431	AS REQD.	STRAP ANCHOR COVER	6063-T5	YKK AP AMERICA INC.
32	4K-14208	2/ VENT	16", 4-BAR SCISSOR HINGE	-	YKK AP AMERICA INC.
33	E1-1781	2/ VENT	HINGE BASE	6063-T5	SECURED TO JAMB W/ (3) #10 X 3/4" FH SMS
35	#10 X 3/8"	3/ HINGE	HINGE INSTALLATION SCREWS	-	PH SMS
36	#10 X 3/8"	3/ HINGE	HINGE INSTALLATION SCREWS	-	FH SMS

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

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 07-1114-10
Expiration Date JAN. 2, 2014

OCT 25 2013
Manuel Perez
Product Control
Division

afC
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COMP - ANL \ W03 - 67YKK

YOW-225 TUH ALUMINUM CASEMENT WDW. (S.M.I.)
YKK AP AMERICA INC.
332 FIRETOWER ROAD
DUBLIN, GEORGIA 31021
TEL(478) 277-1955 FAX(478) 277-1978



no	date	by	description
A	10.31.03		REV. PER BCCO COMMENTS
B	04.07.05		GLAZING OPTIONS ADDED
C	09.17.07		GENERAL REVISION

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