



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.buildingcodeonline.com

Glass Tech Engineering, Inc.
8321 N.W. 70th Street
Miami, 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 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 2046A Aluminum Window Wall System

APPROVAL DOCUMENT: Drawing No. W05-17, titled "Series-2046A Alum Window Wall System (L.M.I.)", sheets 1 through 7 of 7, dated 04/08/05, prepared by AL-Farooq Corporation., 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 pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Herminio F. Gonzalez, P.E., Director, BCCO**



MX
07/13/05

NOA No 05-0620.01
Expiration Date: August 04, 2010
Approval Date: August 04, 2005
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **W05-17**, titled "Series 2046A Alum Window Wall System (L.M.I.)" Sheets 1 through 7 of 7, dated 04/08/05, prepared by AL-Farooq Corporation, signed and sealed by Humayoun Farooq, P.E.

B. TESTS

1. Test report 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) Large Missile Impact Test per FBC, TAS 201-94
 - 6) Cyclic Wind Pressure Loading per FBC, TAS 203-94along with installation diagram of a aluminum window wall system, marked-up by Fenestration Testing Laboratory, Inc. Test Report No. **FTL-4537**, dated 03/23/05, signed and sealed by Edmundo Largaespada, P.E.
2. Test report 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) Large Missile Impact Test per FBC, TAS 201-94
 - 6) Cyclic Wind Pressure Loading per FBC, TAS 203-94along with installation diagram of a aluminum window wall system, marked-up by Fenestration Testing Laboratory, Inc. Test Report No. **FTL-4537**, dated 03/21/05, signed and sealed by Edmundo Largaespada, P.E.

C. CALCULATIONS

1. Anchor Calculations and structural analysis, dated 05/09/05, prepared by AL-Farooq Corporation, 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. **03-0514.15** issued to **Oldcastle Glass Inc.** for "Storm Glass" dated 12/11/03, expiring on 12/11/08.
2. Notice of Acceptance No. **03-1223.04** issued to **Surface Specialties, Inc.** for "Uvekol, a Laminate Glass Component" dated 02/05/04, expiring on 02/08/09.

for M. Gonzalez

Herminio F. Gonzalez, P.E.
Director, Building Code Compliance Office
NOA No 05-0620.01
Expiration Date: August 04, 2010
Approval Date: August 04, 2005

Glass Tech Engineering, Inc.

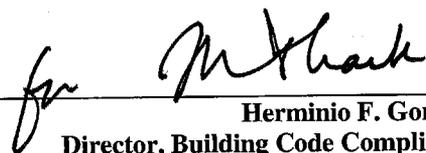
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS

1. Statement letter of conformance, dated May 09, 2005, signed and sealed by Humayoun Farooq, P.E.
2. Statement letter of no financial interest, dated May 09, 2005, signed and sealed by dated Humayoun Farooq, P.E.

G. OTHER

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

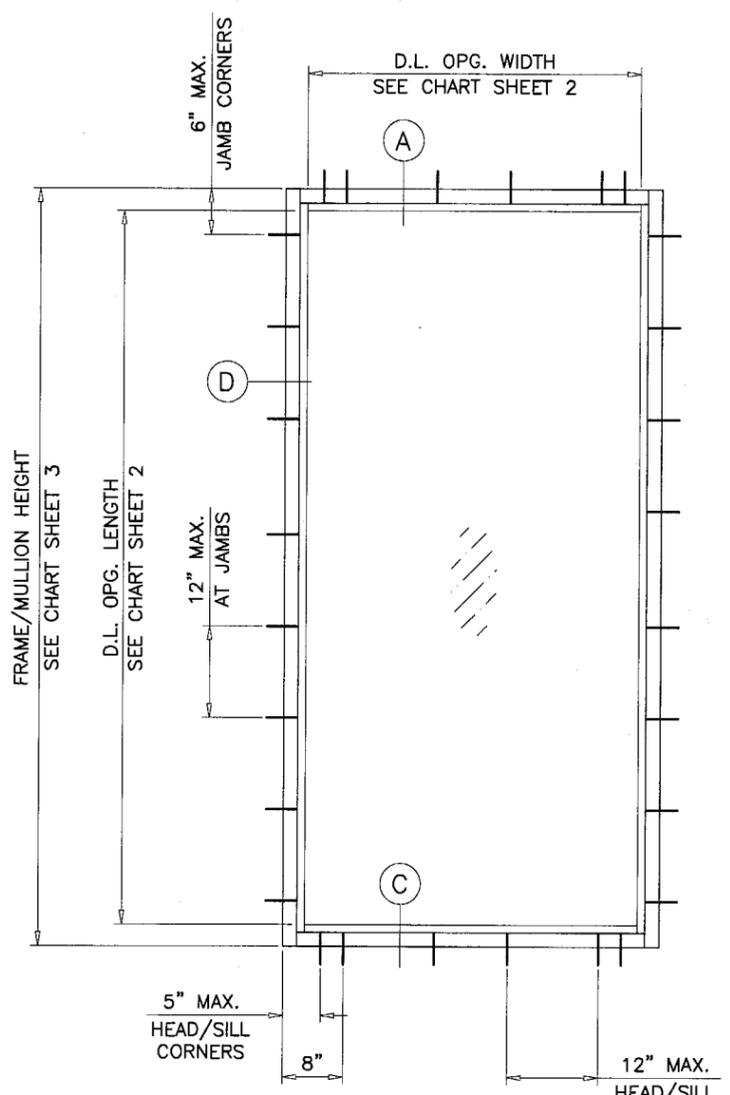
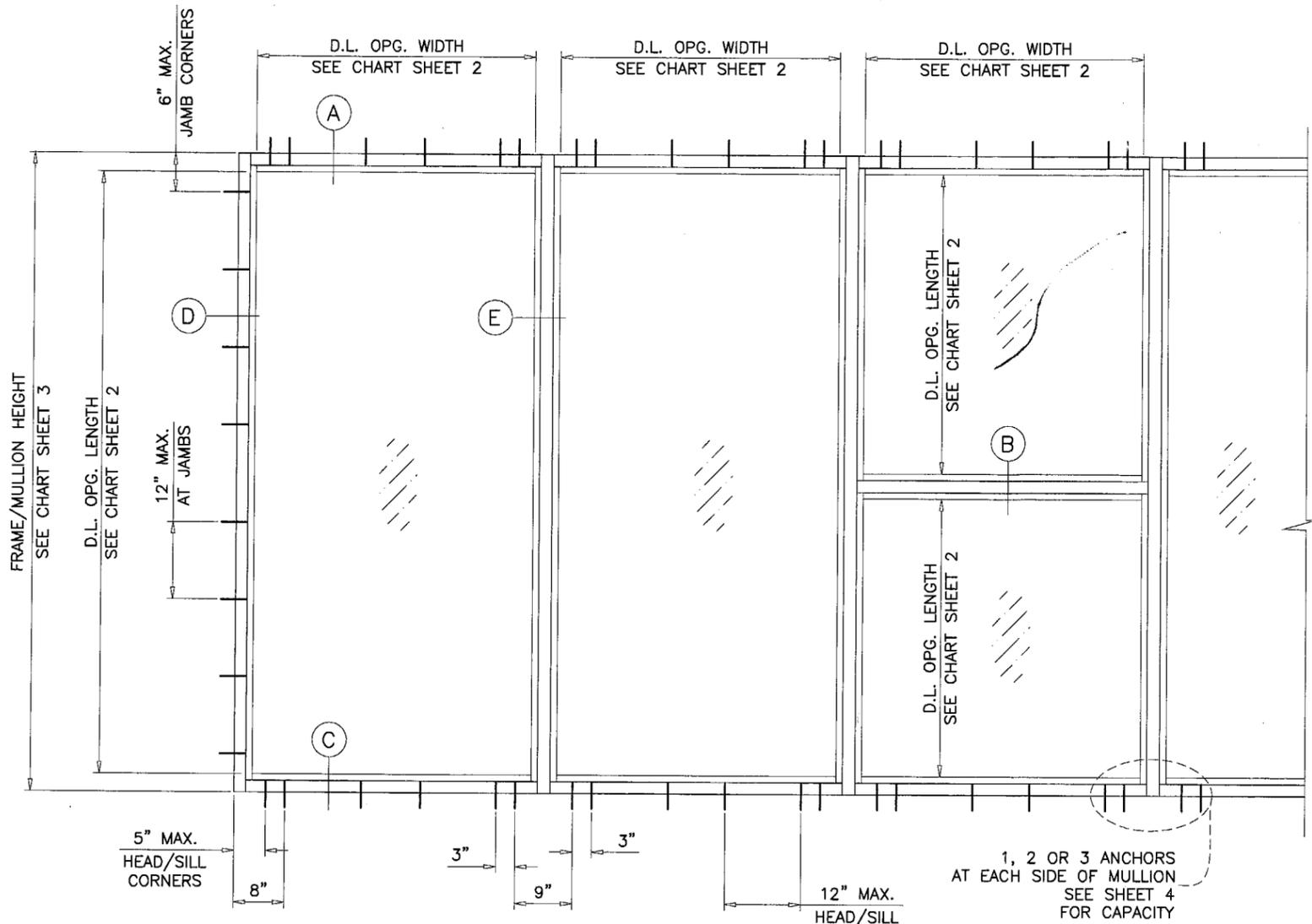


Herminio F. Gonzalez, P.E.
Director, Building Code Compliance Office

NOA No 05-0620.01

Expiration Date: August 04, 2010

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TYPICAL ELEVATIONS

SERIES-2046A IMPACT WINDOW WALL SYSTEM

THIS SYSTEM IS RATED FOR LARGE MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 EDITION 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.

ALL STEEL IN CONTACT WITH ALUMINUM TO BE PAINTED OR PLATED.

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

A 33% INCREASE IN ALLOWABLE STRESS IS USED IN DESIGN OF WOOD ANCHORS ONLY.

INSTRUCTIONS:

- USE CHARTS AS FOLLOWS.
- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
 - STEP 2** SEE CHART ON SHEETS 2 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
 - STEP 3** CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEET 3 THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
 - STEP 4** USING CHARTS ON SHEET 4 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
 - STEP 5** THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.

Approved as complying with the Florida Building Code
 Date 08/04/05
 NOA# 03-0020-01
 Miami Code Product Control
 Division
 By *[Signature]*

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

[Signature]

MAY 25 2005

afc

AL-FAROOQ CORPORATION
 ENGINEERS, PLANNERS & PRODUCT DESIGN
 1235 SW 87 AVE
 MIAMI, FLORIDA 33174
 TEL. (305) 264-8100 FAX. (305) 262-6978
 STORE\W05-17GTE

SERIES-2046A ALUM WINDOW WALL SYSTEM (L.M.I.)

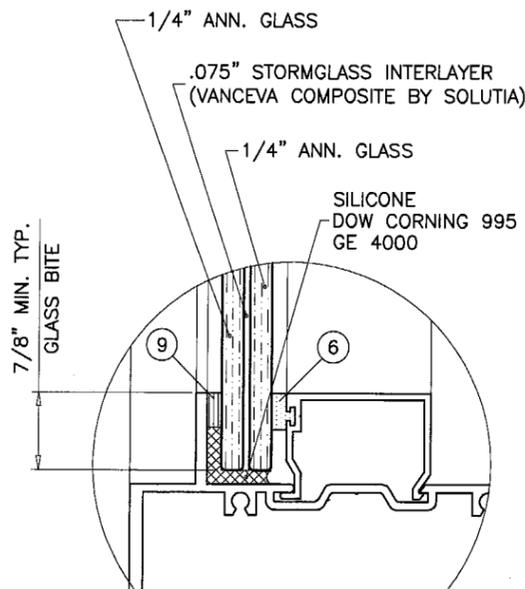
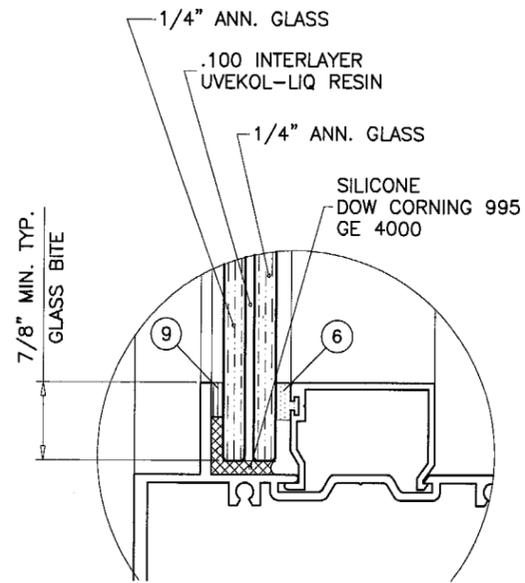
GLASSTECH ENGINEERING INC.
 8321 N.W. 70TH STREET
 MIAMI, FL. 33166
 TEL. (305) 594-4321 FAX. (305) 599-2730

no	date	by description

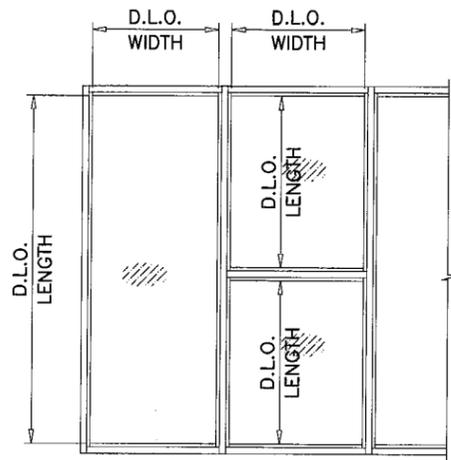
date: 04-08-05
 scale: 1/2"=1'-0"
 dr. by: HAMID
 chk. by:

drawing no.
W05-17

sheet 1 of 7



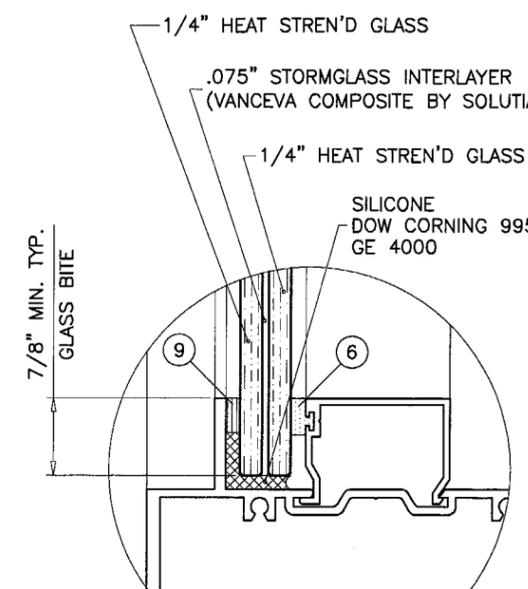
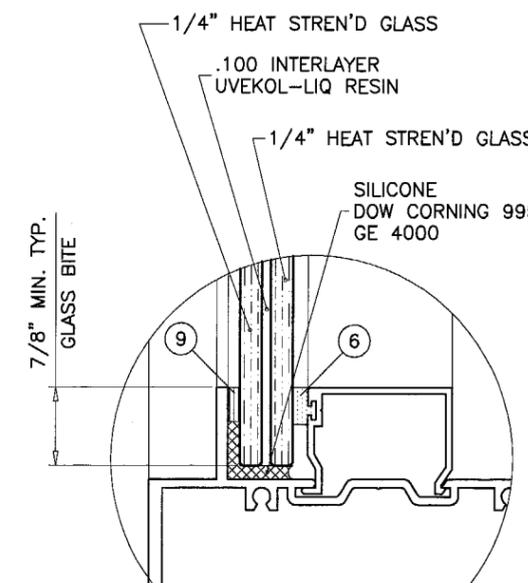
GLASS TYPE 'A'



GLASS DESIGN LOAD CAPACITY - PSF			
NOMINAL DIMS.		GLASS TYPE 'A'	
D.L.O. WIDTH	D.L.O. LENGTH	EXT.(+) & INT.(-)	
24"	66"	120.0	
30"		120.0	
36"		112.6	
42"		91.4	
48"		78.3	
54"		69.1	
60"	61.9		
24"	72"	120.0	
30"		120.0	
36"		100.0	
42"		85.1	
48"		72.4	
54"		63.7	
24"	78"	120.0	
30"		120.0	
36"		100.0	
42"		79.7	
48"		67.2	
24"		84"	120.0
30"	100.0		
36"	96.7		
42"	75.1		
24"	90"		120.0
30"			100.0
36"		92.9	
42"		71.3	
24"		96"	120.0
30"			100.0
36"	89.8		
24"	102"		100.0
30"			100.0
36"			87.3
24"		108"	100.0
30"			100.0
36"			85.1
24"	114"		100.0
30"			100.0
24"			120"
30"		100.0	

VALUES SHOWN ABOVE ARE MAXIMUM DAYLITE OPENING DIMS. FOR GLASS. SEE MULLION CHARTS FOR MULLION CAPACITY.

GLASS DESIGN LOAD CAPACITY - PSF			
NOMINAL DIMS.		GLASS TYPE 'B'	
D.L.O. WIDTH	D.L.O. LENGTH	EXT.(+) & INT.(-)	
24"	66"	120.0	
30"		120.0	
36"		120.0	
42"		120.0	
48"		120.0	
54"		120.0	
60"	120.0		
24"	72"	120.0	
30"		120.0	
36"		120.0	
42"		120.0	
48"		120.0	
54"		120.0	
60"	114.6		
24"	78"	120.0	
30"		120.0	
36"		120.0	
42"		120.0	
48"		120.0	
54"		120.0	
60"	118.0		
24"	84"	120.0	
30"		120.0	
36"		120.0	
42"		120.0	
48"		120.0	
54"		109.8	
24"	90"	120.0	
30"		120.0	
36"		120.0	
42"		120.0	
48"		117.7	
54"		102.4	
24"	96"	120.0	
30"		120.0	
36"		120.0	
42"		120.0	
48"		111.0	
24"		102"	120.0
30"	120.0		
36"	120.0		
42"	120.0		
48"	105.4		
24"	108"		120.0
30"		120.0	
36"		120.0	
42"		120.0	
24"		114"	120.0
30"			120.0
36"	120.0		
42"	120.0		
44"	114-1/4"		112.2
24"	120"		120.0
30"		120.0	
36"		120.0	



GLASS TYPE 'B'

Approved as complying with the Florida Building Code
 Date 08/04/05
 NOA# 05-0620-01
 Miami Dade Product Control
 Division
 By [Signature]

Engr: DR. HUMAYUN FAROOQ
 STRUCTURES
 FLA. PE # 16557
 C.A.N. 3538
 MAY 25 2005

afc

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SERIES-2046A ALUM WINDOW WALL SYSTEM (L.M.I.)

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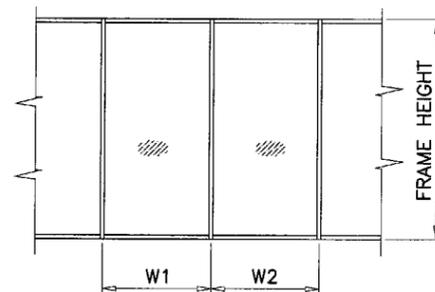
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 scale: 1/2" = 1"
 dr. by: HAMID
 chk. by:

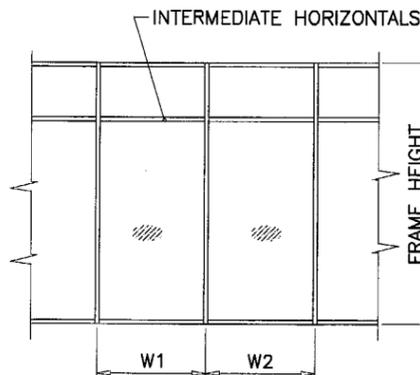
drawing no. **W05-17**
 sheet 2 of 7

ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)						
NOMINAL DIMS.		ANCHORS TYPE 'A'			TYPE 'B' OR 'C'	
WIDTH (W)	FRAME HEIGHT	A2	A3	A4	B2/C2	B3/C3
24"	60"	120.0	120.0	120.0	120.0	120.0
30"		120.0	120.0	120.0	120.0	120.0
36"		120.0	120.0	120.0	120.0	120.0
42"		120.0	120.0	120.0	120.0	120.0
48"		118.0	120.0	120.0	120.0	120.0
54"		118.0	120.0	120.0	120.0	120.0
60"	110.0	120.0	120.0	120.0	120.0	
24"	66"	120.0	120.0	120.0	120.0	120.0
30"		120.0	120.0	120.0	120.0	120.0
36"		119.0	120.0	120.0	120.0	120.0
42"		119.0	120.0	120.0	120.0	120.0
48"		107.0	120.0	120.0	120.0	120.0
54"		107.0	120.0	120.0	120.0	120.0
60"	100.0	120.0	120.0	120.0	120.0	
24"	72"	120.0	120.0	120.0	120.0	120.0
30"		120.0	120.0	120.0	120.0	120.0
36"		109.0	120.0	120.0	120.0	120.0
42"		109.0	120.0	120.0	120.0	120.0
48"		98.0	120.0	120.0	120.0	120.0
54"		98.0	116.0	120.0	120.0	120.0
60"	91.0	116.0	120.0	120.0	120.0	
24"	78"	120.0	120.0	120.0	120.0	120.0
30"		120.0	120.0	120.0	120.0	120.0
36"		101.0	120.0	120.0	120.0	120.0
42"		101.0	120.0	120.0	120.0	120.0
48"		90.0	120.0	120.0	120.0	120.0
54"		90.0	107.0	120.0	120.0	120.0
60"	84.0	107.0	120.0	120.0	120.0	
24"	84"	120.0	120.0	120.0	120.0	120.0
30"		112.0	120.0	120.0	120.0	120.0
36"		93.0	120.0	120.0	120.0	120.0
42"		93.0	112.0	120.0	120.0	120.0
48"		84.0	112.0	120.0	120.0	120.0
54"		84.0	100.0	120.0	120.0	120.0
60"	78.0	100.0	112.0	120.0	120.0	
24"	90"	120.0	120.0	120.0	120.0	120.0
30"		105.0	120.0	120.0	120.0	120.0
36"		87.0	120.0	120.0	120.0	120.0
42"		87.0	105.0	120.0	120.0	120.0
48"		78.0	105.0	118.0	120.0	120.0
54"		78.0	93.0	116.0	120.0	120.0
60"	73.0	93.0	105.0	120.0	120.0	
24"	96"	120.0	120.0	120.0	120.0	120.0
30"		98.0	120.0	120.0	120.0	120.0
36"		82.0	114.0	120.0	120.0	120.0
42"		82.0	98.0	120.0	120.0	120.0
48"		74.0	98.0	110.0	120.0	120.0
54"		74.0	87.0	109.0	120.0	120.0

ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)						
NOMINAL DIMS.		ANCHORS TYPE 'A'			TYPE 'B' OR 'C'	
WIDTH (W)	FRAME HEIGHT	A2	A3	A4	B2/C2	B3/C3
24"	102"	115.0	120.0	120.0	120.0	120.0
30"		92.0	120.0	120.0	120.0	120.0
36"		77.0	108.0	120.0	120.0	120.0
42"		77.0	92.0	119.0	120.0	120.0
48"		69.0	92.0	104.0	120.0	120.0
54"		69.0	82.0	102.0	120.0	120.0
24"	108"	109.0	120.0	120.0	120.0	120.0
30"		87.0	120.0	120.0	120.0	120.0
36"		73.0	102.0	120.0	120.0	120.0
42"		73.0	87.0	112.0	120.0	120.0
48"		65.0	87.0	98.0	120.0	120.0
54"		65.0	-	-	120.0	-
24"	114"	103.0	120.0	120.0	120.0	120.0
30"		83.0	116.0	120.0	120.0	120.0
36"		69.0	96.0	120.0	120.0	120.0
42"		69.0	83.0	106.0	120.0	120.0
48"		62.0	83.0	93.0	120.0	120.0
24"		120"	98.0	120.0	120.0	120.0
30"	78.0		110.0	120.0	120.0	120.0
36"	65.0		91.0	118.0	120.0	120.0
42"	65.0		78.0	101.0	120.0	120.0
48"	59.0		78.0	88.0	119.0	120.0



$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$



Approved as complying with the
Florida Building Code
Date 08/04/05
NOA# 05-022001
Miami Code Product Control
Division
By *[Signature]*

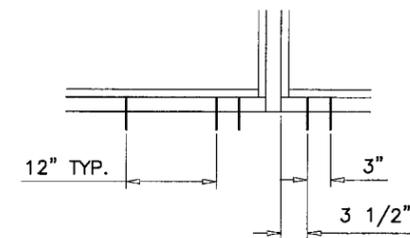
ANCHORS TYPES: SEE SHEET 5 FOR DESCRIPTION

- A2 = (2) ANCHORS TYPE 'A' AT EACH SIDE OF MULLION
- A3 = (3) ANCHORS TYPE 'A' AT EACH SIDE OF MULLION
- A4 = (4) ANCHORS TYPE 'A' AT EACH SIDE OF MULLION

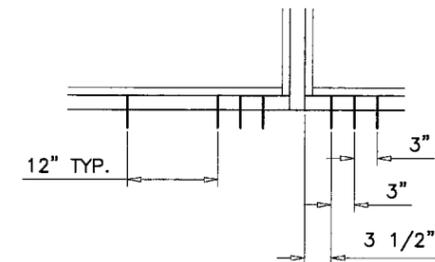
- B2 = (2) ANCHORS TYPE 'B' AT EACH SIDE OF MULLION
- B3 = (3) ANCHORS TYPE 'B' AT EACH SIDE OF MULLION

- C2 = (2) ANCHORS TYPE 'C' AT EACH SIDE OF MULLION
- C3 = (3) ANCHORS TYPE 'C' AT EACH SIDE OF MULLION

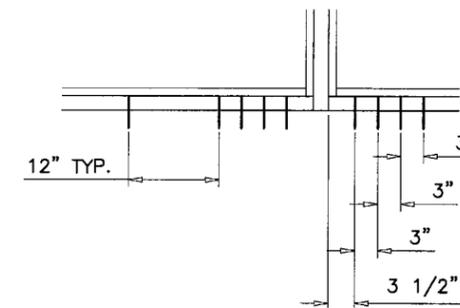
ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.



A2, B2, C2



A3, B3, C3



A4

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

MAY 25 2005

afc

AL-FAROOQ CORPORATION
ENGINEERS, PLANNERS & PRODUCT DESIGN
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SERIES-2046A ALUM WINDOW WALL SYSTEM (L.M.I.)
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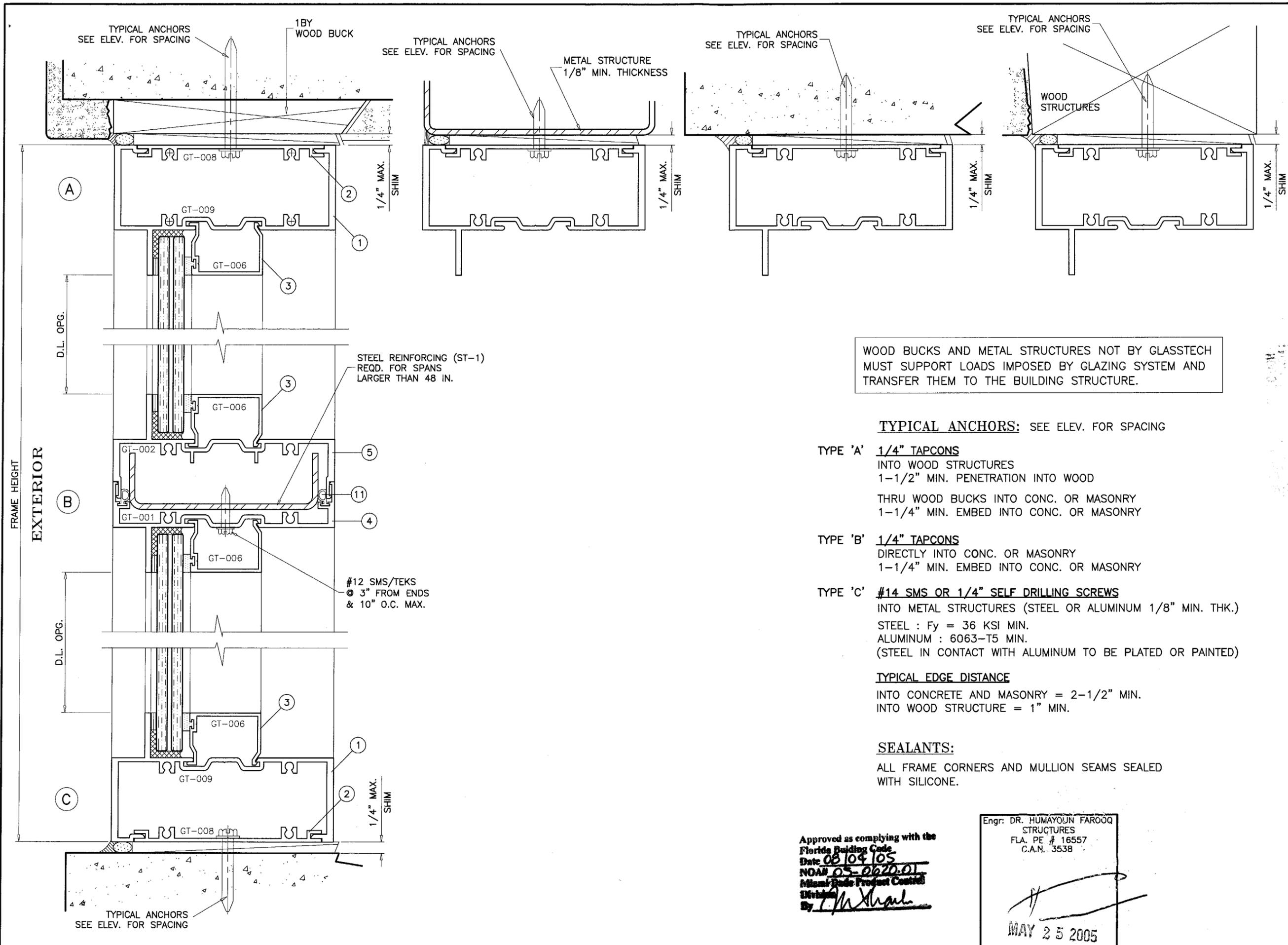
revisions:	no	date	description

date: 04-08-05
scale: -
dr. by: HAMID
chk. by:

drawing no.
W05-17

sheet 4 of 7

STORE/W05-17GTE



WOOD BUCKS AND METAL STRUCTURES NOT BY GLASSTECH MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

- TYPE 'A' **1/4" TAPCONS**
 INTO WOOD STRUCTURES
 1-1/2" MIN. PENETRATION INTO WOOD
 THRU WOOD BUCKS INTO CONC. OR MASONRY
 1-1/4" MIN. EMBED INTO CONC. OR MASONRY
- TYPE 'B' **1/4" TAPCONS**
 DIRECTLY INTO CONC. OR MASONRY
 1-1/4" MIN. EMBED INTO CONC. OR MASONRY
- TYPE 'C' **#14 SMS OR 1/4" SELF DRILLING SCREWS**
 INTO METAL STRUCTURES (STEEL OR ALUMINUM 1/8" MIN. THK.)
 STEEL : Fy = 36 KSI MIN.
 ALUMINUM : 6063-T5 MIN.
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

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

SEALANTS:
 ALL FRAME CORNERS AND MULLION SEAMS SEALED WITH SILICONE.

Approved as complying with the Florida Building Code
 Date 08/04/05
 NOAH 05-0620-01
 Miami Dade Project Control Division
 By *[Signature]*

Engr: DR. HUMAYOON FAROOQ
 STRUCTURES
 FLA. PE # 16557
 C.A.N. 3538
[Signature]
 MAY 25 2005

afc

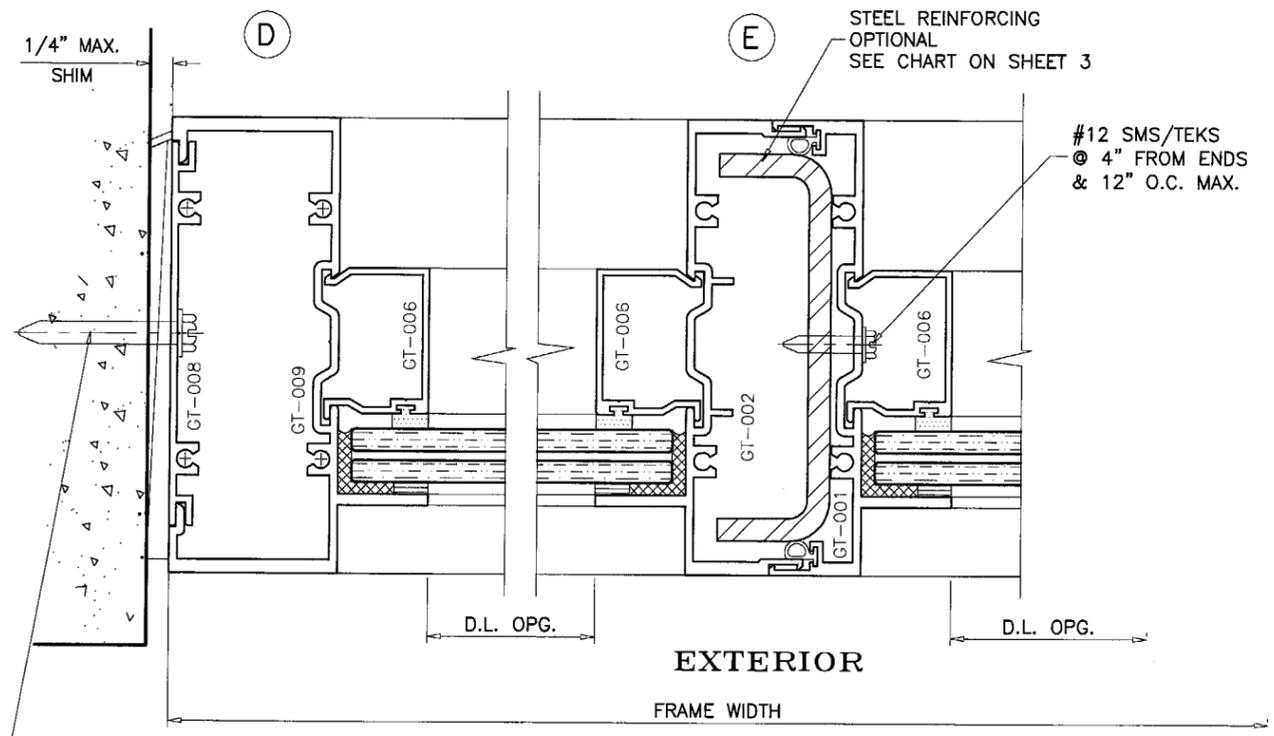
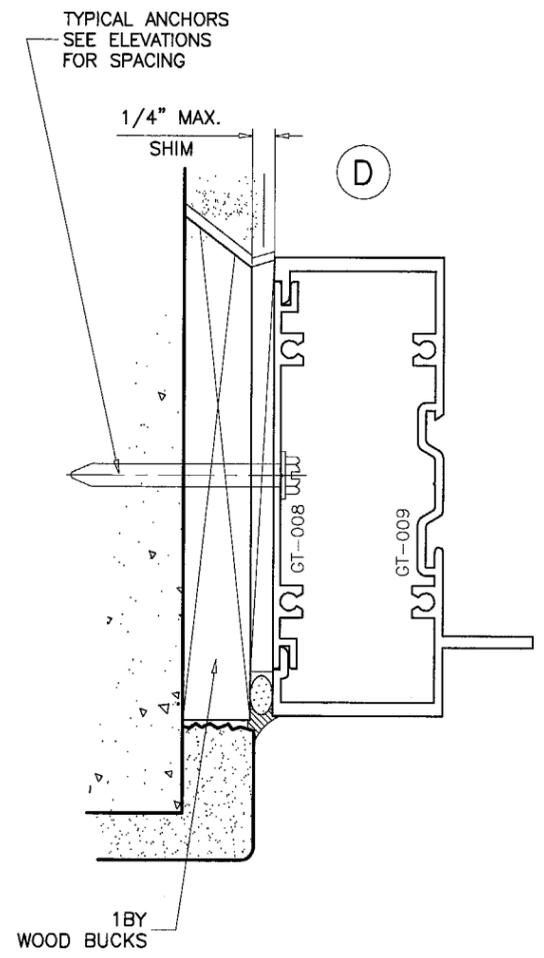
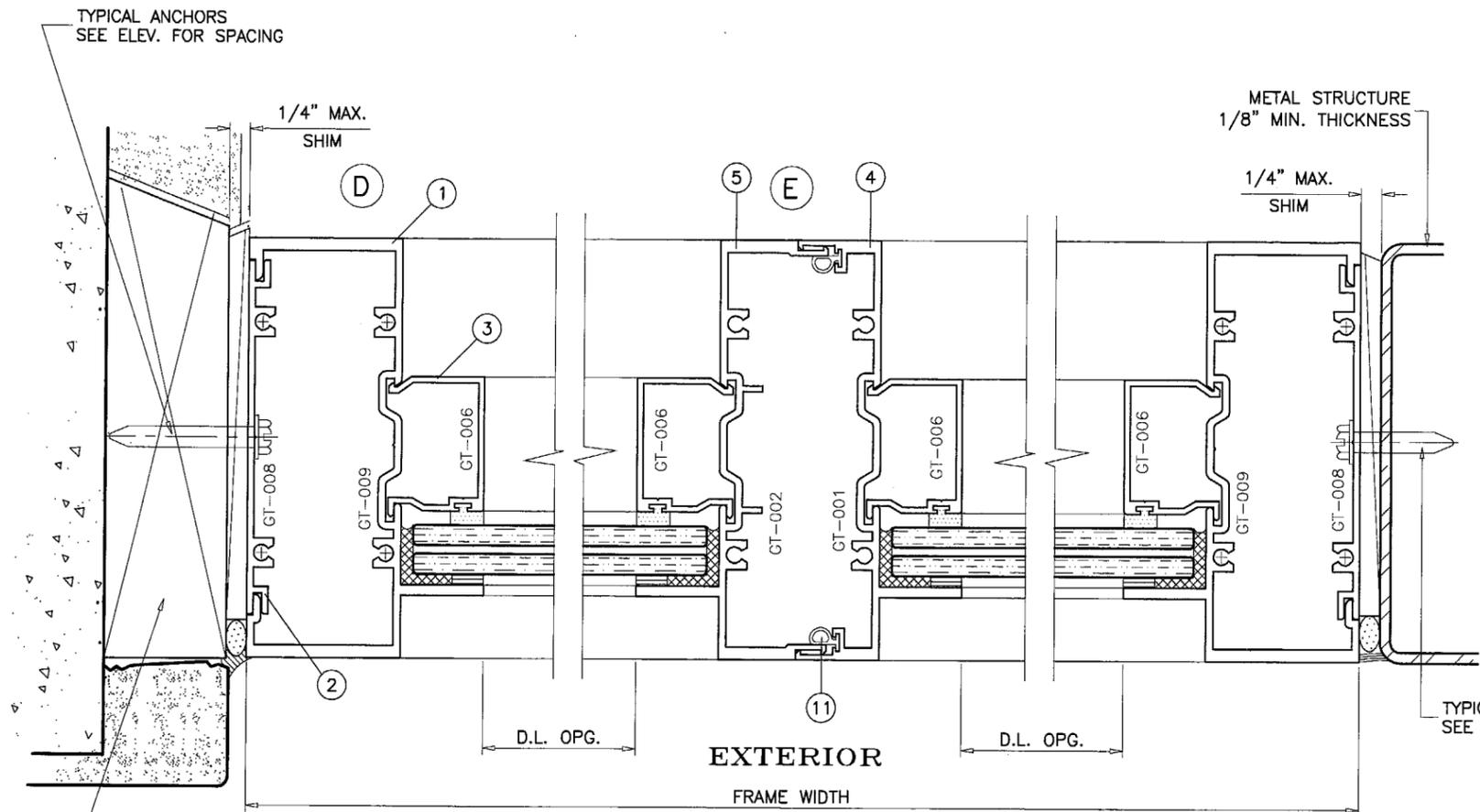
AL-FAROOQ CORPORATION
 ENGINEERS, PLANNERS & PRODUCT DESIGN
 1235 SW 87 AVE
 MIAMI, FLORIDA 33174
 TEL. (305) 264-8100 FAX. (305) 262-6978
 STORE\W05-17GTE

SERIES-2046A ALUM WINDOW WALL SYSTEM (L.M.I.)

GLASSTECH ENGINEERING INC.
 8321 N.W. 70TH STREET
 MIAMI, FL. 33166
 TEL. (305) 594-4321 FAX. (305) 599-2730

revisions:	no	date	by description

date: 04-08-05
 scale: 1/2" = 1"
 dr. by: HAMID
 chk. by:
 drawing no. **W05-17**
 sheet 5 of 7



Approved as complying with the
Florida Building Code
Date 08/04/05
NOA# 05-0670.01
Miami Dade Product Control
Division
By *M. Khair*

Engr. DR. HUMAYOUN FAROOQ
STRUCTURE'S
FLA. PE # 16557
C.A.N. 3538

[Signature]

MAY 25 2005

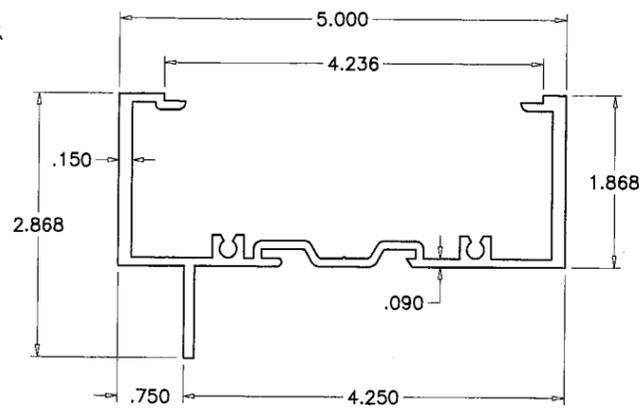
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no	date	by	description

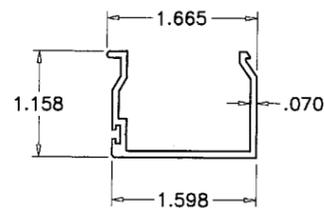
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chk. by:
drawing no.
W05-17
sheet 6 of 7



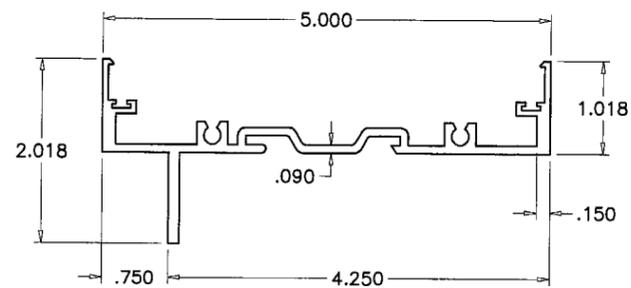
① FRAME HEAD/SILL/JAMB



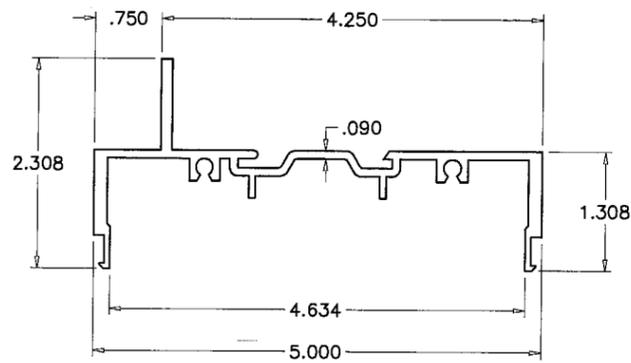
② FLAT POCKET FILLER



③ GLAZING STOP

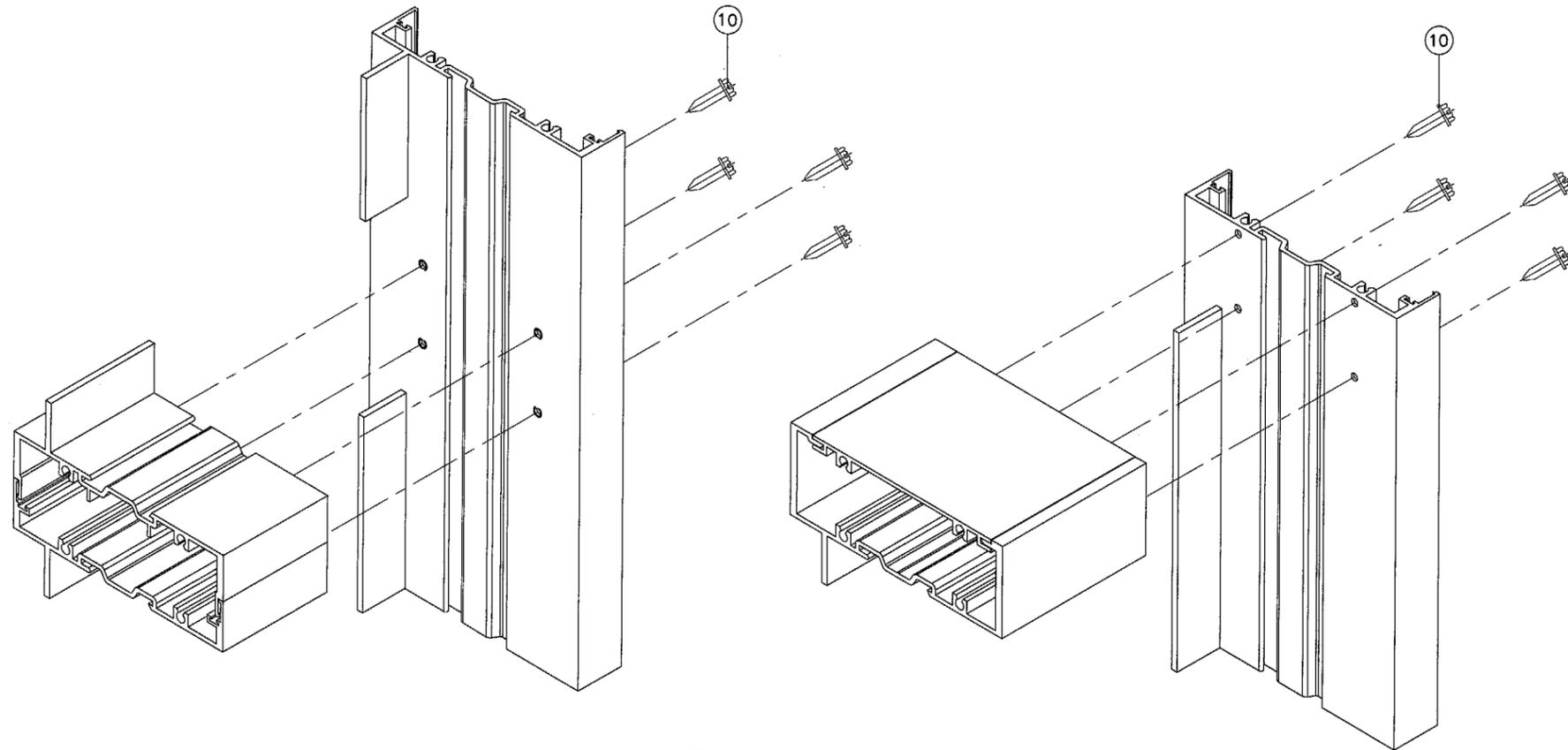


④ FEMALE FRAME

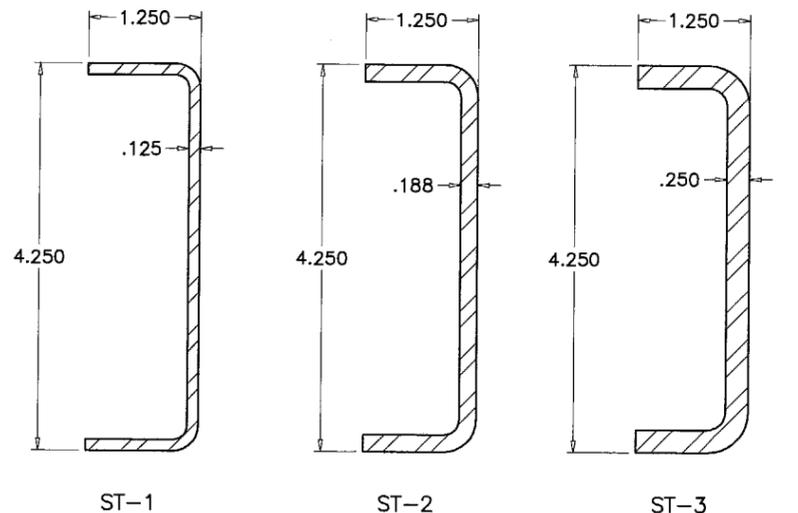


⑤ MALE FRAME

ITEM No.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	GT-009	AS REQD.	HEAD, SILL AND JAMB FRAME	6063-T6	-
2	GT-008	AS REQD.	FLAT POCKET FILLER	6063-T5	-
3	GT-006	AS REQD.	GLAZING BEAD	6063-T5	-
4	GT-001	AS REQD.	FEMALE FRAME	6063-T6	-
5	GT-002	AS REQD.	MALE FRAME	6063-T6	-
6	TR-427N	AS REQD.	GLAZING GASKET	NEOPRENE	TREMCO
8	995/4000	AS REQD.	GLAZING COMPOUND	SILICONE	DOW CORNING/GE
9	V2204	AS REQD.	GLAZING TAPE (1/8" X 3/8")	-	NORTON
10	#12 X 1-1/2"	AS REQD.	FRAME ASSEMBLY SCREWS	-	SMS OR SELF DRILLING
11	-	AS REQD.	BULB VINYL	-	-



FRAME CORNERS



⑪ STEEL REINFORCING
36 KSI MIN.

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STORE W05-17GTE