



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

CONTRACTOR LICENSING SECTION
(305) 375-2527 FAX (305) 375-2558

CONTRACTOR ENFORCEMENT DIVISION
(305) 375-2966 FAX (305) 375-2908

PRODUCT CONTROL DIVISION
(305) 375-2902 FAX (305) 372-6339

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Glass Tech Engineering, Inc.
8469 N.W. 70 Street
Miami, FL 33166

Your application for Notice of Acceptance (NOA) of:

Series 2046 Aluminum Window Wall System - Impact Resistant

under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

ACCEPTANCE NO.: 00-0524.03
EXPIRES: 09/11/2003

Raul Rodriguez
Chief Product Control Division

**THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL
CONDITIONS
BUILDING CODE & PRODUCT REVIEW COMMITTEE**

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

APPROVED: 09/14/2000

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

1.1 This **renews** the Notice of Acceptance No. 96-1024.02, which was issued on September 11, 1997. It approves an aluminum Window wall system as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

2. PRODUCT DESCRIPTION

2.1 The **Series 2046 Aluminum Window Wall System – Impact Resistant** and its components shall be constructed in strict compliance with the following documents: Drawing No **96-26**, titled “Series 2046 Impact Window Wall System”, Sheets 1 and 2 of 2, dated June 15, 1996, revised on 08/10/00, 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. These documents shall hereinafter be referred to as the approved drawings.

3. LIMITATIONS

3.1 This approval applies to single unit applications and multiple lites applications, as long as panel size does not exceed the one tested and intermediate mullions are used between all panels, as shown in the approved drawings.

3.2 For Design Pressure Rating (Mullion Load Capacity) vs. Mullion Length, Mullion Spacing (Tributary Width), Anchor Type for Rectangular and Trapezoidal Loads, see corresponding Tables on the approved drawings.

4. INSTALLATION

4.1 The aluminum window wall system and its components shall be installed in strict compliance with the approved drawings.

4.2 Hurricane protection system (shutters): The installation of this unit **will not require** a hurricane protection system.

5. LABELING

5.1 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".

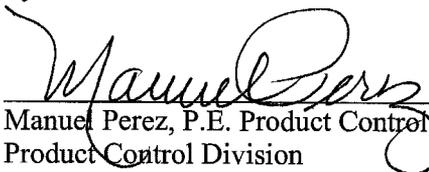
6. BUILDING PERMIT REQUIREMENTS

6.1 Application for building permit shall be accompanied by copies of the following:

6.1.1 This Notice of Acceptance

6.1.2 Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.

6.1.3 Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.


Manuel Perez, P.E. Product Control Examiner
Product Control Division

Glass Tech Engineering, Inc.

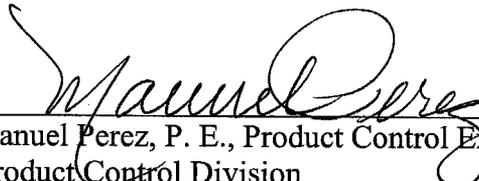
ACCEPTANCE No.: 00-0524.03

APPROVED : SEP 14 2000

EXPIRES : September 11, 2003

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

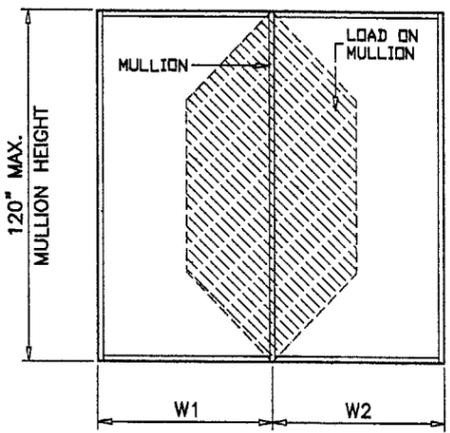
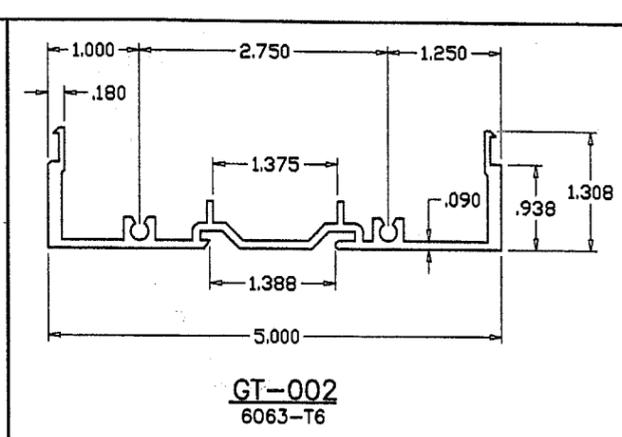
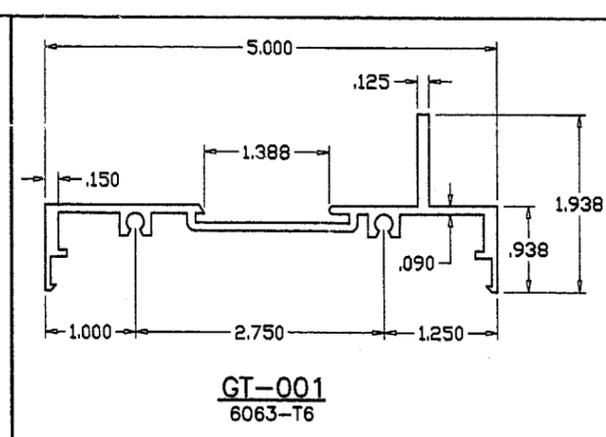
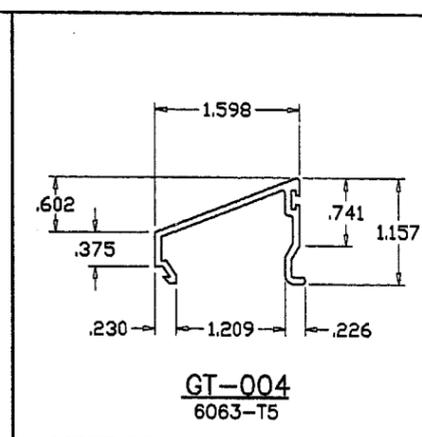
1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.
2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.
3. Renewals of Acceptance will not be considered if:
 - a) There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes;
 - b) The product is no longer the same product (identical) as the one originally approved;
 - c) If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product;
 - d) The engineer who originally prepared, signed and sealed the required documentation initially submitted is no longer practicing the engineering profession.
4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
5. Any of the following shall also be grounds for removal of this Acceptance:
 - a) Unsatisfactory performance of this product or process.
 - b) Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purpose.
6. The Notice of Acceptance 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 Notice of Acceptance is displayed, then it shall be done in its entirety.
7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer need not reseal the copies.
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.


Manuel Perez, P. E., Product Control Examiner
Product Control Division

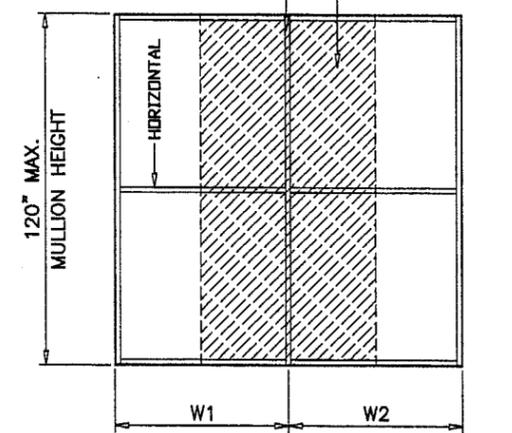
END OF THIS ACCEPTANCE

RECTANGULAR LOADING			
DIMS.		MULLION LOAD CAPACITY PSF	ANCHOR TYPE
TRIBUTARY WIDTH	MULLION LENGTH		
48"	120"	85.0	C
50"		85.0	C
48"	114"	85.0	C
53"		85.0	C
51"	108"	85.0	C
48"		85.0	B
67"		68.5	C
66"		69.6	C
63"		73.3	C
60"	102"	77.3	C
57"		81.8	C
54"		85.0	C
67"		68.5	B
66"		69.6	B
63"		73.3	B
60"	96"	77.3	B
57"		81.8	B
54"		85.0	B
67"		68.5	B
66"		69.6	B
63"		73.3	B
60"	90"	77.3	B
57"		81.8	B
54"		85.0	B
67"		68.5	B
66"		69.6	B
63"		73.3	B
60"	84"	77.3	B
57"		81.8	B
54"		85.0	B
72"		68.6	B
69"		71.8	B
66"		75.4	B
63"	78"	79.3	B
60"		83.7	B
59"		85.0	B
78"		68.6	B
75"		71.5	B
72"		74.8	B
69"	72"	78.3	B
66"		82.2	B
64"		85.0	B
85"		68.7	B
84"		69.6	B
81"		72.4	B
78"	66"	75.4	B
75"		78.6	B
72"		82.2	B
69"		85.0	B

TRAPEZOIDAL LOADING			
DIMS.		MULLION LOAD CAPACITY PSF	ANCHOR TYPE
TRIBUTARY WIDTH	MULLION LENGTH		
48"		68.0	B
45"	120"	73.1	B
42"		79.2	B
39-1/2"		85.0	B
50"		68.5	B
48"		71.7	B
45"	114"	77.2	B
42"		83.6	B
41-1/2"		84.7	B
52"		69.4	B
51"		70.9	B
48"	108"	75.9	B
45"		81.7	B
43-1/2"		85.0	B
55"		69.2	B
54"		70.7	B
51"	102"	75.3	B
48"		80.7	B
46"		84.7	B
59"		68.3	B
57"		70.9	B
54"	96"	75.3	B
51"		80.3	B
48-1/2"		85.0	B
63"		68.0	B
60"		71.8	B
57"	90"	76.0	B
54"		80.7	B
52"		84.2	B
67"		68.5	B
66"		69.6	B
63"		73.3	B
60"	84"	77.3	B
57"		81.8	B
54"		85.0	B
55-1/2"		84.3	B
72"		68.6	A
69"		71.8	A
66"		75.4	A
63"	78"	79.3	B
60"		83.7	B
59-1/2"		84.5	B
41"		85.0	A
78"		68.6	A
75"		71.5	A
72"		74.8	A
69"	72"	78.3	A
65"		83.6	A
64"		85.0	A
85"		68.7	A
81"		72.4	A
78"	66"	75.4	A
75"		78.6	A
72"		82.2	A
70"		84.8	A

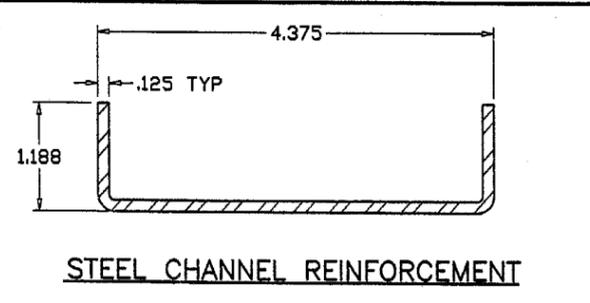


FOR MULLIONS W/O HORIZONTALS
USE TRAP. LOAD CHARTS



FOR MULLIONS WITH HORIZONTALS
USE RECT. LOAD CHARTS

$$\text{TRIBUTARY WIDTH} = \frac{W1 + W2}{2}$$



STEEL CHANNEL REINFORCEMENT

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE September 14, 2000
BY Manuel Ariz
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 00-0524-03

GENERAL NOTES

1. THIS STRUCTURE IS DESIGNED AS PER THE SOUTH FLORIDA BUILDING CODE 1994 EDITION FOR DADE COUNTY. ALSO FOR WIND LOADS AS PER ASCE 7-88 USING CORRESPONDING LOADS.
2. DESIGN CRITERIA FOR ALUMINUM, MINIMUM MECHANICAL PROPERTIES, AND SAFETY FACTORS ARE IN ACCORDANCE WITH THE "ALUMINUM CONSTRUCTION MANUAL" LATEST EDITION.
3. ALL EXTRUSIONS SHALL BE ALLOY AND TEMPER AS SHOWN ON DETAILS.
4. STEEL SURFACES TO BE PLACED IN CONTACT WITH ALUMINUM SHALL BE PLATED OR PAINTED.
5. ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
6. MULLIONS MAY BE USED HORIZONTALLY USING SAME SPANS AS SHOWN IN CHARTS.
7. DESIGN CRITERIA FOR MULLIONS: MAX DEFLECTION $\leq L/180$.
8. ANY ANCHOR OR MULLION CONDITION NOT SHOWN IN THESE DETAILS ARE TO BE ENGINEERED SEPARATELY.

DESIGN LOADS SHALL BE CALCULATED AS PER REQUIREMENTS OF ASCE 7-88, BASED ON 110 MPH WIND VELOCITY.

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

AUG 14 2000

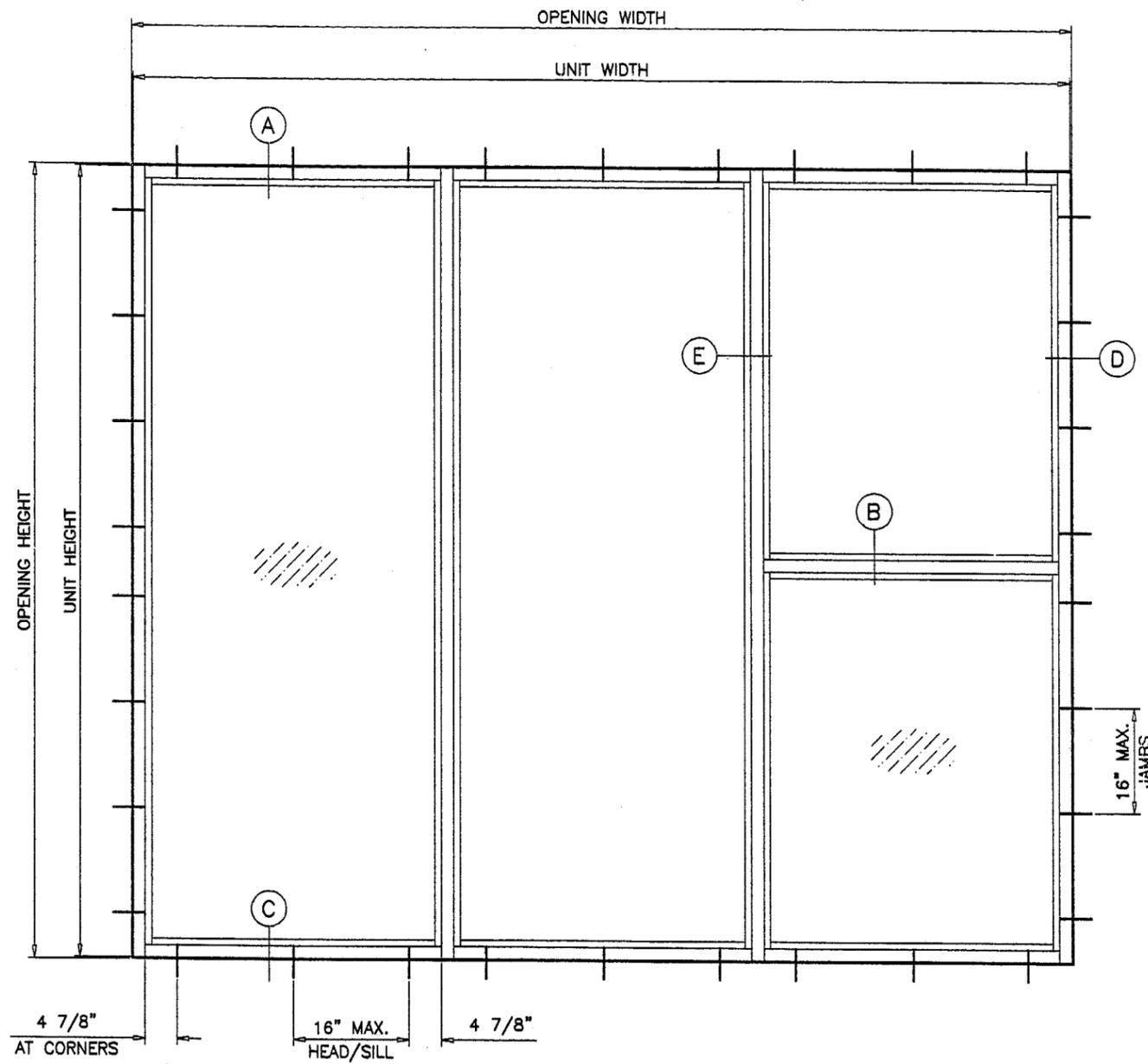
AL-FAROOQ CORPORATION
ENGINEERS, PLANNERS & PRODUCT DESIGN
1235 SW 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
STORE 96-26GTE

SERIES-2046 IMPACT WINDOW WALL SYSTEM
GLASSTECH ENGINEERING INC.
8465 N.W. 70TH STREET
MIAMI, FL. 33166
TEL. (305) 594-4321

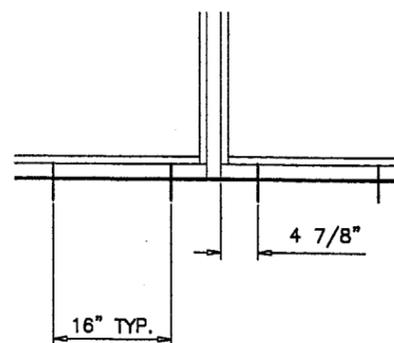
no	date	by	description
A	10.9.96	H	COMPLETE REVISION
B	7.15.97	H	GENERAL REVISION
C	8.10.00	H	REV. AS PER BCCO COMMENTS

date: 06-15-96
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

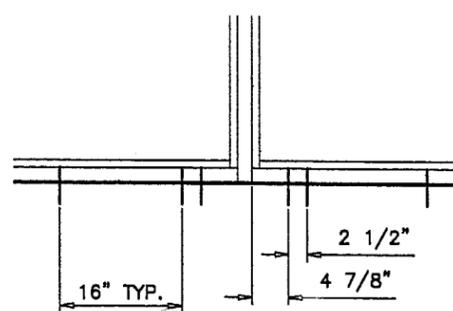
drawing no.
96-26
sheet 1 of 3



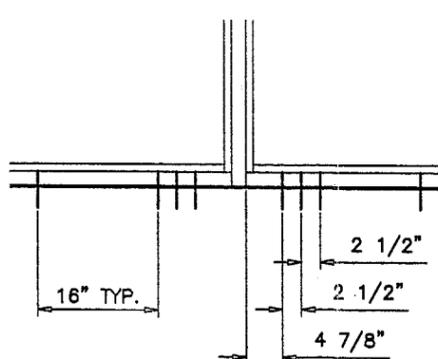
TYPICAL ELEVATION



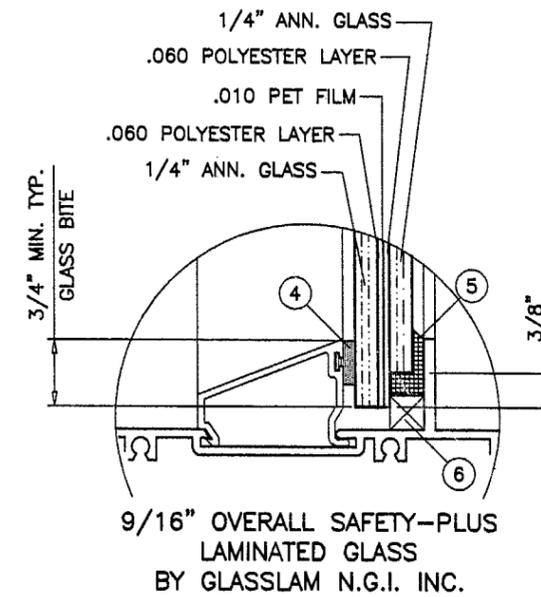
ANCHOR 'A'



ANCHOR 'B'



ANCHOR 'C'



LARGE MISSILE IMPACT RESISTANT SYSTEM
SHUTTERS NOT REQUIRED.

SEALANTS:

PERIMETER OF GLAZING BEADS TO FRAME AND MULLION SEAMS TO BE SEALED WITH GE 1200 SEALANT ON EXTERIOR ONLY.

ANCHORS DESCRIPTION

- ANCHOR (A) 1/4" ϕ TAPCON W/ 1-3/4" EMBEDMENT TO CONC.
 (2) \bullet EACH SIDE OF MULLION, AND 16" O.C. MAX.
- ANCHOR (B) 1/4" ϕ TAPCON W/ 1-3/4" EMBEDMENT TO CONC.
 (2) \bullet EACH SIDE OF MULLION, AND (1) \bullet 16" O.C. MAX.
- ANCHOR (C) 1/4" ϕ TAPCON W/ 1-3/4" EMBEDMENT TO CONC.
 (3) \bullet EACH SIDE OF MULLION, AND (1) \bullet 16" O.C. MAX.

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE September 14, 2000
BY M. M. M. M.
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 00-0524-03

Engr: DR. HUMAYOON FAROOQ
STRUCTURES
FLA. PE # 16557
11
AUG 14 2000

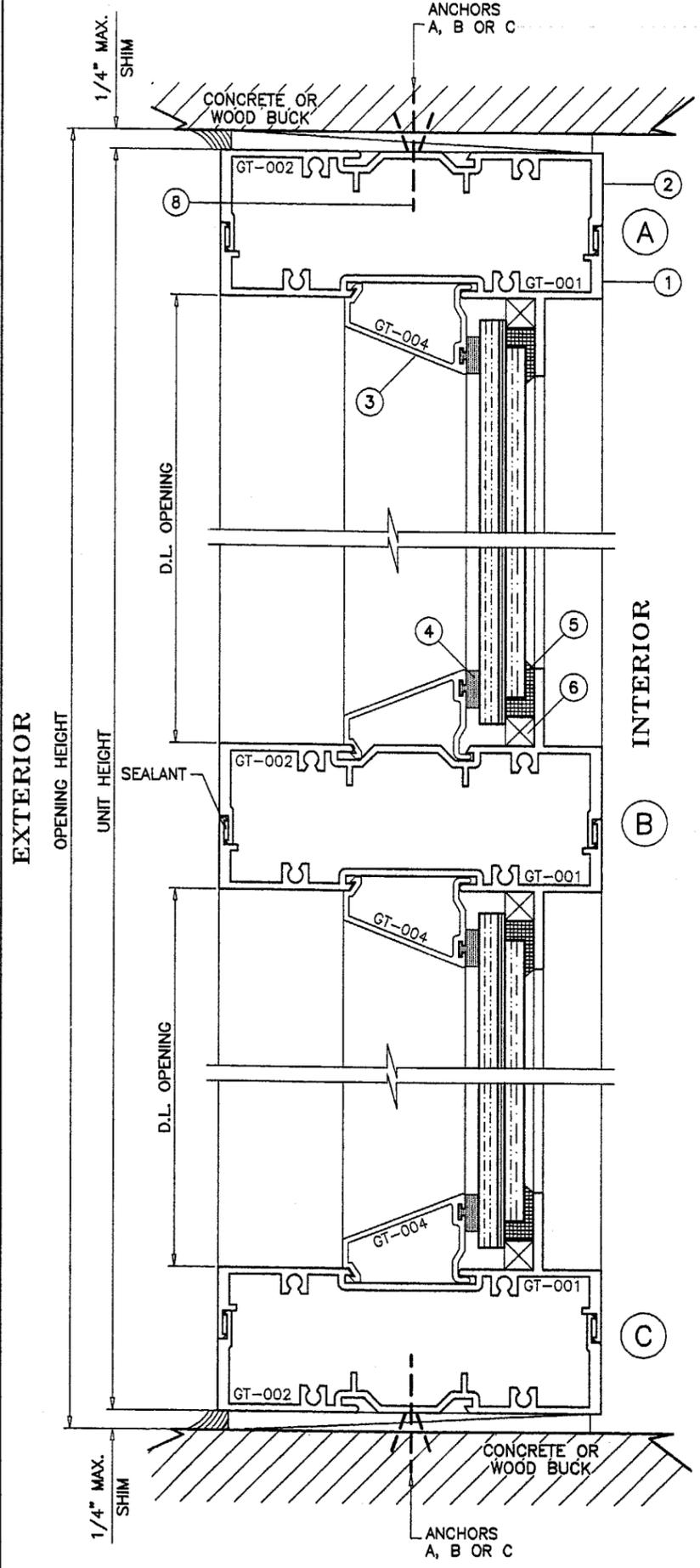
AL-FAROOQ CORPORATION
ENGINEERS, PLANNERS & PRODUCT DESIGN
1235 SW 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
STORE 96-26GTE

SERIES-2046 IMPACT WINDOW WALL SYSTEM
GLASSTECH ENGINEERING INC.
8465 N.W. 70TH STREET
MIAMI, FL. 33166
TEL (305) 594-4321

revisions:	no	date	description

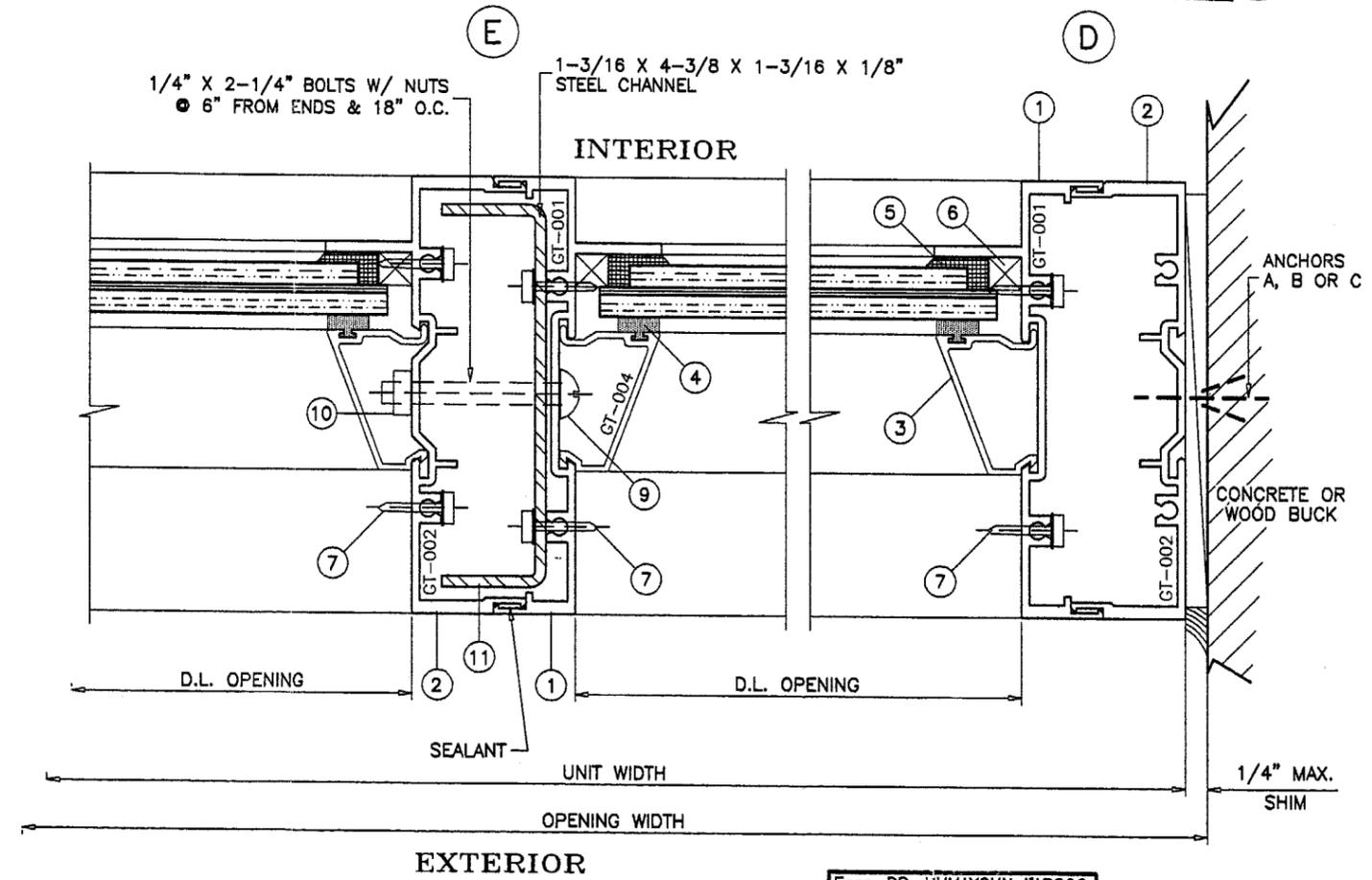
date: 06-15-96
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
96-26
sheet 2 of 3



ITEM #	PART #	DESCRIPTION
1	GT-001	FEMALE FRAME
2	GT-002	MALE FRAME
3	GT-004	GLAZING BEAD
4	TR-427N	NEOPRENE GASKET
5	995	DOW CORNING STRUCTURAL SILICONE
6	V2212	3/8" X 3/8" NORTON TAPE
7		# 12 X 2" HEX-HEAD SMS
8		1/4" X 2-3/4" HEX-HEAD TAPCONS
9		1/4"-20 X 2-1/4" MS
10		1/4"-20 NUT
11		1-3/16 X 4-3/8" X 1-3/16 X 1/8" STEEL CHANNEL

APPROVED AS COMPLYING WITH THE
 SOUTH FLORIDA BUILDING CODE
 DATE September 19, 2000
 BY Manuel Ortiz
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 00-052A-03



Engr: DR. HUMAYOUN FAROOQ
 STRUCTURES
 FLA. PE # 16557
AUG 14 2000

a f c

AL-FAROOQ CORPORATION
 ENGINEERS, PLANNERS & PRODUCT DESIGN
 1235 SW 87 AVE
 MIAMI, FLORIDA 33174
 TEL. (305) 264-8100 FAX. (305) 262-6978
 STORE 96-26GIE

SERIES-2046 IMPACT WINDOW WALL SYSTEM
GLASSTECH ENGINEERING INC.
 8465 N.W. 70TH STREET
 MIAMI, FL. 33166
 TEL. (305) 594-4321

no.	date	by description

date: 06-15-96
 scale: 1/2" = 1"
 dr. by: HAMID
 chk. by:

drawing no.
96-26

sheet 3 of 3