



MIAMI-DADE COUNTY
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

www.miamidade.gov

NOTICE OF ACCEPTANCE (NOA)

Phoenix Architectural Products, Inc.
1700 Marietta Blvd., Suite C
Atlanta, GA 30318

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 High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: "Sure guard 2004" Window Security Barrier Systems

APPROVAL DOCUMENT: Drawing No. 05-282, titled " Sure Guard 2004 / Window Security Barrier Systems", sheets 1 through 6 of 6, prepared by Tilteco, Inc., dated August 15, 2005, signed and sealed by Walter A. Tillit Jr., 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: Large and Small Missile Impact

LABELING: Each panel shall bear a permanent label with the manufacturer's name or logo, city, state and the 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 NOA # 04-0423.01 and consists of this page 1, evidence submitted page E-1 as well as approval document mentioned above.

The submitted documentation was reviewed by **Helmy A. Makar, M.S., P.E.**



Helmy A. Makar
 11/30/2006

NOA No 05-0921.04
Expiration Date: 06/10/2009
Approval Date: 11/30/2006
Page 1

Phoenix Architectural Products, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 04-0423.01

A. DRAWINGS

1. *Drawing No. S100-01, titled " Sure Guard 2004 / Window Security Barrier Systems ", sheets 1 through 6 of 6, prepared by Tilteco, Inc., dated March 25, 2004, signed and sealed by Walter A. Tillit Jr., P.E.*

B. TESTS

1. *Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test of 304 Stainless Steel Wire Mesh window security barrier system, prepared by Hurricane Test Laboratory, LLC, Report No. 0340-0310-04, dated April 7, 2004, signed and sealed by Vinu J. Abraham, P.E.*

C. CALCULATIONS

1. *Anchor calculations dated May 17, 2004, 13 pages, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit Jr., P.E.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATIONS

1. *Mill Certified Inspection Report issued by Screen Technology Group, Inc., dated April 8, 2004, with chemical analysis and mechanical properties for 304 Stainless Steel Wire Mesh.*

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing No. 05-282, titled " Sure Guard 2004 / Window Security Barrier Systems ", sheets 1 through 6 of 6, prepared by Tilteco, Inc., dated August 15, 2005, signed and sealed by Walter A. Tillit Jr., P.E.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *Anchor calculations dated September 16, 2005, 7 pages, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit Jr., P.E.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATIONS

1. *None.*



Helmy A. Makar, M.S., P. E.
Product Control Examiner
NOA No 05-0921.04
Expiration Date: 06/10/2009
Approval Date: 11/30/2006

GENERAL NOTES

- THIS WINDOW SECURITY BARRIER SYSTEM SHOWN ON THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2004 EDITION OF THE FLORIDA BUILDING CODE. THIS WINDOW SECURITY BARRIER SYSTEM MAY BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES. DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1620 OF THE ABOVE MENTIONED CODE. IN ORDER TO VERIFY THAT ANCHORS ON THIS P.A.D., AS TESTED, WERE NOT OVERSTRESSED, A 33% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS NOT USED IN THEIR ANALYSIS. WINDOW SECURITY BARRIER SYSTEM'S ADEQUACY FOR IMPACT AND FATIGUE RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1609.1.4 OF THE ABOVE MENTIONED CODE AS PER HTL REPORT #0340-0310-04 AS PER TAS-201, TAS-202 AND TAS-203. PROTOCOLS
- SYSTEM MOUNTS DIRECTLY TO THE MASONRY OPENING BY MEANS OF AN ALUMINUM "L" BAR (ITEM # 13 IN B.O.M.).
- PRODUCT ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS ON SHEETS 2, 3 & 4. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
- ALL COMPONENTS SHALL BE AS PER BILL OF MATERIALS SHEET 2 OF 6.
- DESIGN PRESSURE RATING IS:
POSITIVE 73 PSF NEGATIVE 134 PSF
- SELF TAPPING SCREWS MANUFACTURED TO ASTM A510-03, ZINC PLATED AS PER ASTM B-833 OR TO COMPLY WITH DIN 50018, WITH MINIMUM TENSILE STRENGTH OF 100 KSI.
- WINDOW SECURITY BARRIER SYSTEM'S MANUFACTURER LABEL SHALL BE PLACED ON THE EXPOSED SURFACE OF THE FRAME 2 OR 3. ONE LABEL SHALL BE PLACED FOR EVERY OPENING. LABEL SHALL READ AS FOLLOWS:
PHOENIX ARCHITECTURAL PRODUCTS
ATLANTA, GA.
MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED.
- (a) THIS P.A.D. PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; I.E. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.A.D.
(b) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT, BASED ON THIS P.A.D., PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.
(c) THIS P.A.D. WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
(d) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.A.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.A.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.
(e) THIS P.A.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

IMPACT RESISTANT SCREEN / PANEL CONSTRUCTION

FRAME CONSTRUCTION:

EXTRUDED ALUMINUM FRAME. THE CORNERS ARE MITERED BUTTED AND WELDED INCLUDING MIDHEIGHT RAIL CONNECTION TO JAMBS. USE ER5356 ELECTRODES. WELDING TO CONFORM WITH A.W.S. D1.2 1998 REGULATIONS.

PANEL CONSTRUCTION:

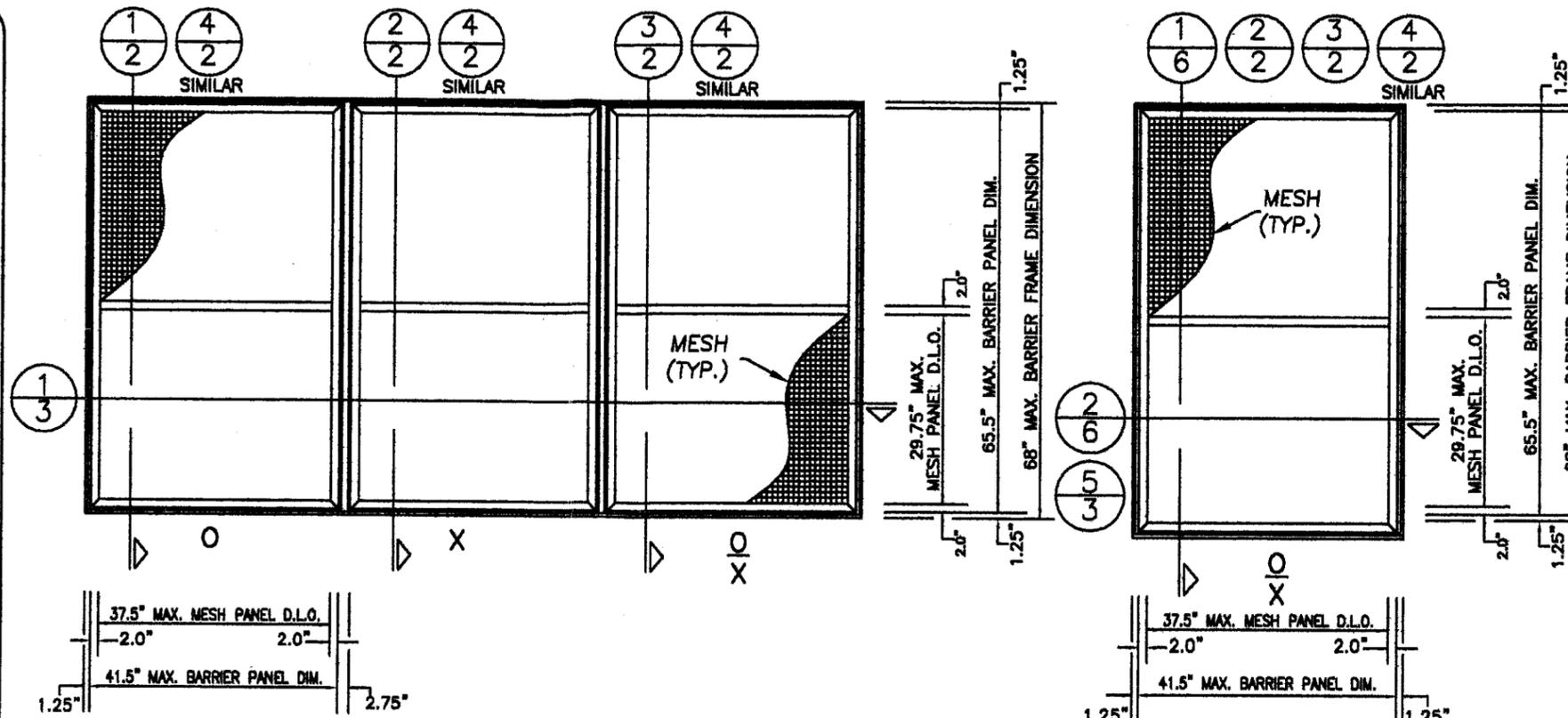
EACH PANEL IS MADE UP OF AN EXTRUDED 8063-T6 ALUM. FRAME MITERED AND ADDITIONALLY JOINED AT THE CORNERS WITH A 3.7" LONG "L" SHAPED ALUMINUM PLATE (SP-7).

THE SCREEN MATERIAL IS HIGH-TENSILE 304 STAINLESS STEEL WITH TENSILE STRENGTH BEFORE WEAVING OF 105.3 KSI AND 43% ELONGATION, PER ASTM A 2018.

MINIMUM EDGE DISTANCE PER FASTENING SCREWS/EDGE OF MESH IS 1/2".

MESH COUNT TO BE 12 X 12 STRANDS PER INCH AT 0.028" DIAMETER. MESH 43% OPEN.

THE OPERABLE PANELS ARE SECURED WITH A CONTINUOUS LATCH (1) MECHANISM EXTRUDED FROM ALUMINUM.



MULTIPLE UNIT EXTERIOR ELEVATION

SINGLE UNIT EXTERIOR ELEVATION

NOTE: BARRIER SCREENS MAY BE USED AS SINGLE OR UNLIMITED NUMBER OF HORIZONTAL PANELS. FIXED, CENTER HINGE, SIDE HINGE AND TOP HINGE MAY BE COMBINED.

INDEX	
SHEET	DESCRIPTION
1	GENERAL NOTES & TYPICAL ELEVATIONS
2	VERTICAL CROSS SECTIONS & BILL OF MATERIALS
3	HORIZONTAL CROSS SECTIONS
4	ANCHOR LOCATIONS
5	COMPONENTS
6	SINGLE SCREEN SIDE HINGE SECTIONS

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 05-0921.04
Expiration Date 06/10/2009
By *Helmut A. Huber*
Miami Dade Product Control
Division
MIAMI-DADE COUNTY

Walter A. Tillit Jr.
WALTER A. TILLIT Jr., P. E.
P.E. SEAL/SIGNATURE/DATE

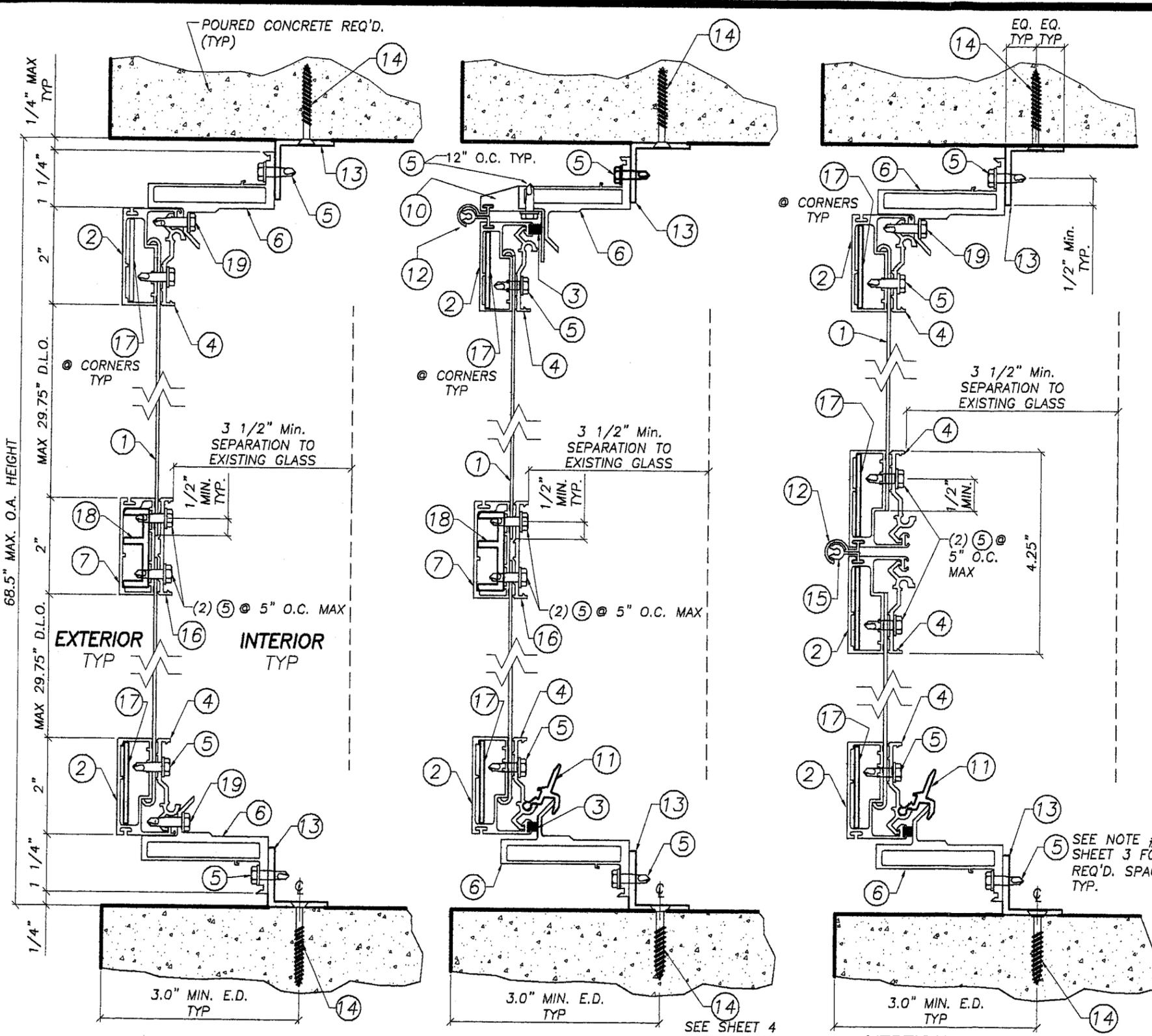
TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th St., Ste. 305, WIRVANA GARDENS, F. 33166
Phone: (305)871-1530 Fax: (305)871-1531
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WALTER A. TILLIT Jr., P. E.
FLORIDA Lic. # 44167

PHOENIX
ARCHITECTURAL PRODUCTS
SECURITY BARRIERS, ALUMINUM WINDOWS & DOORS
TEL 404.389.0103 FAX 404.389.0105

PRODUCT:
PHOENIX ARCHITECTURAL PRODUCTS SURE GUARD 2004
WINDOW SECURITY BARRIER SYSTEM
SURE GUARD 2004
WINDOW SECURITY BARRIER SYSTEM

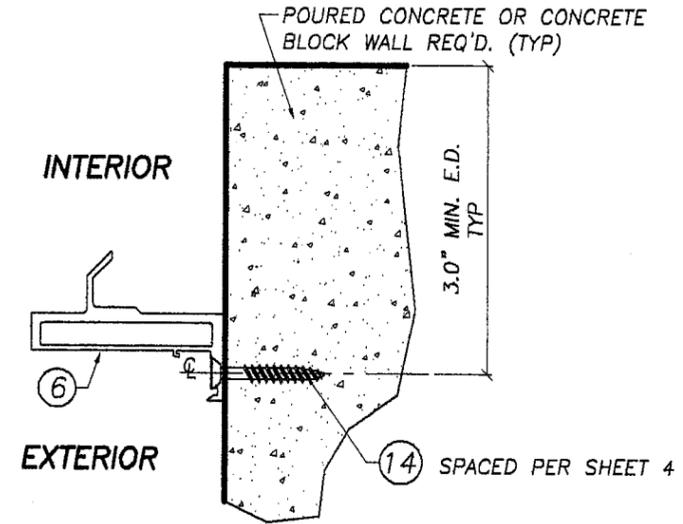
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1	08/15/05		

DATE: 08/15/05
SCALE: N.T.S.
DWG. BY: J.V.
DRAWING NO.: 05-282
SHEET 1 OF 6



BILL OF MATERIALS

ITEM	DESCRIPTION	MATERIAL MANUFACTURER
①	Wire Mesh	AISI 304 SERIES S.S.
②	Sash Frame CIE-3	Alum. 6063-T6
③	Weather-strip #568 .25" (Hope Webbing)	Wool Pyle
④	Securing Flange CIE-4	Alum. 6063-T6
⑤	#10 x 5/8" STS Hex Head Screw	ASTM A-510
⑥	Frame Jamb CIE-12	Alum. 6063-T6
⑦	Horizontal Sash Support CIE-6	Alum. 6063-T6
⑧	1.75" x 2.0" x .125" Ext. Alum. Tube	Alum. 6063-T6
⑨	#14x 2.5" Self Tapping Screw	ASTM A-510
⑩	Hinge Flange CIE-5	Alum. 6063-T6
⑪	Latch Mechanism CIE-8	Alum. 6063-T6
⑫	Hinge CIE-2	Alum. 6063-T6
⑬	"L" Bar .125" thick, each leg meas. 1.0"	Alum. 6063-T6
⑭	1/4" Tapcon Anchor (min 1.25" embed. to block & 1.75" to concrete)	Elco Textron
⑮	HINGE CIE-1	Alum. 6063-T6
⑯	HORIZONTAL SASH RETAINER CIE-7	Alum. 6063-T6
⑰	CORNER SUPPORT SP-7	Alum. 3003-H14
⑱	SASH SUPPORT CIE-13	Alum. 6063-T6
⑲	#10x1" STS Hex Head Screw	ASTM A-510



① VERTICAL CROSS SECTION
② Fixed Sash Panel

② VERTICAL CROSS SECTION
② Top Hinge

③ CROSS SECTION
② Midheight Hinge

④ VERTICAL CROSS SECTION
② Optional Surface Mount Method

PRODUCT REVISED as complying with the Florida Building Code
 Acceptance No. 05-0921-04
 Expiration Date 06/10/2009
 By *Helmut A. Miller*
 Miami Date Product Control Division
 MIAMI-DADE COUNTY

Walter A. Tillit Jr.
 WALTER A. TILLIT Jr., P. E.
 P.E. SEAL/SIGNATURE/DATE

TILECO inc.
 TILLIT TESTING & ENGINEERING COMPANY
 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166
 Phone: (305)871-1530 Fax: (305)871-1531
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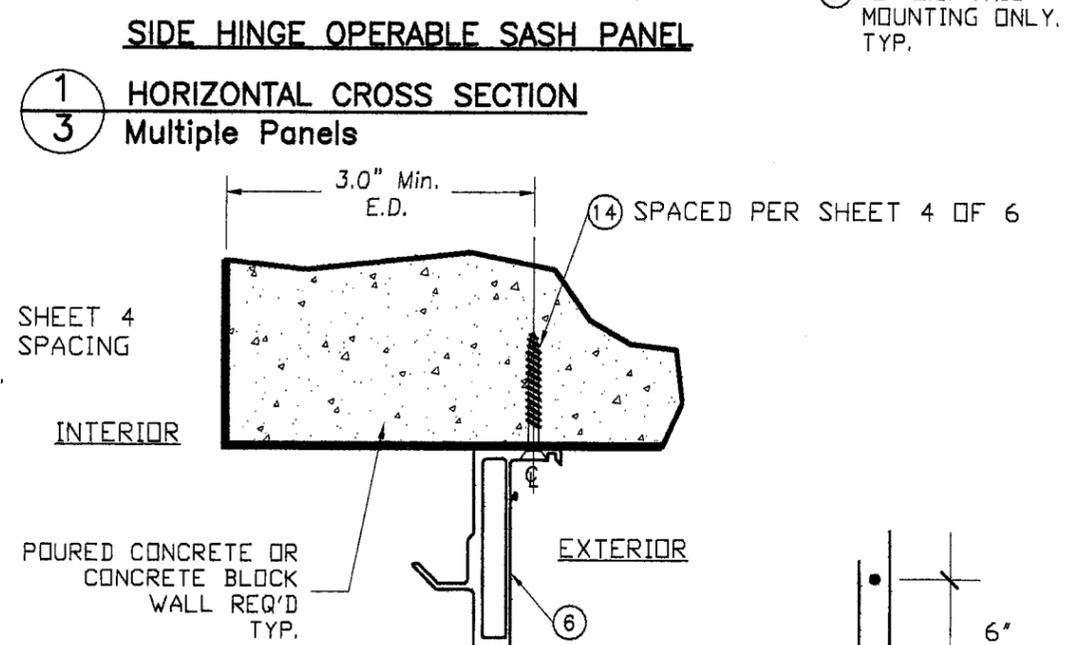
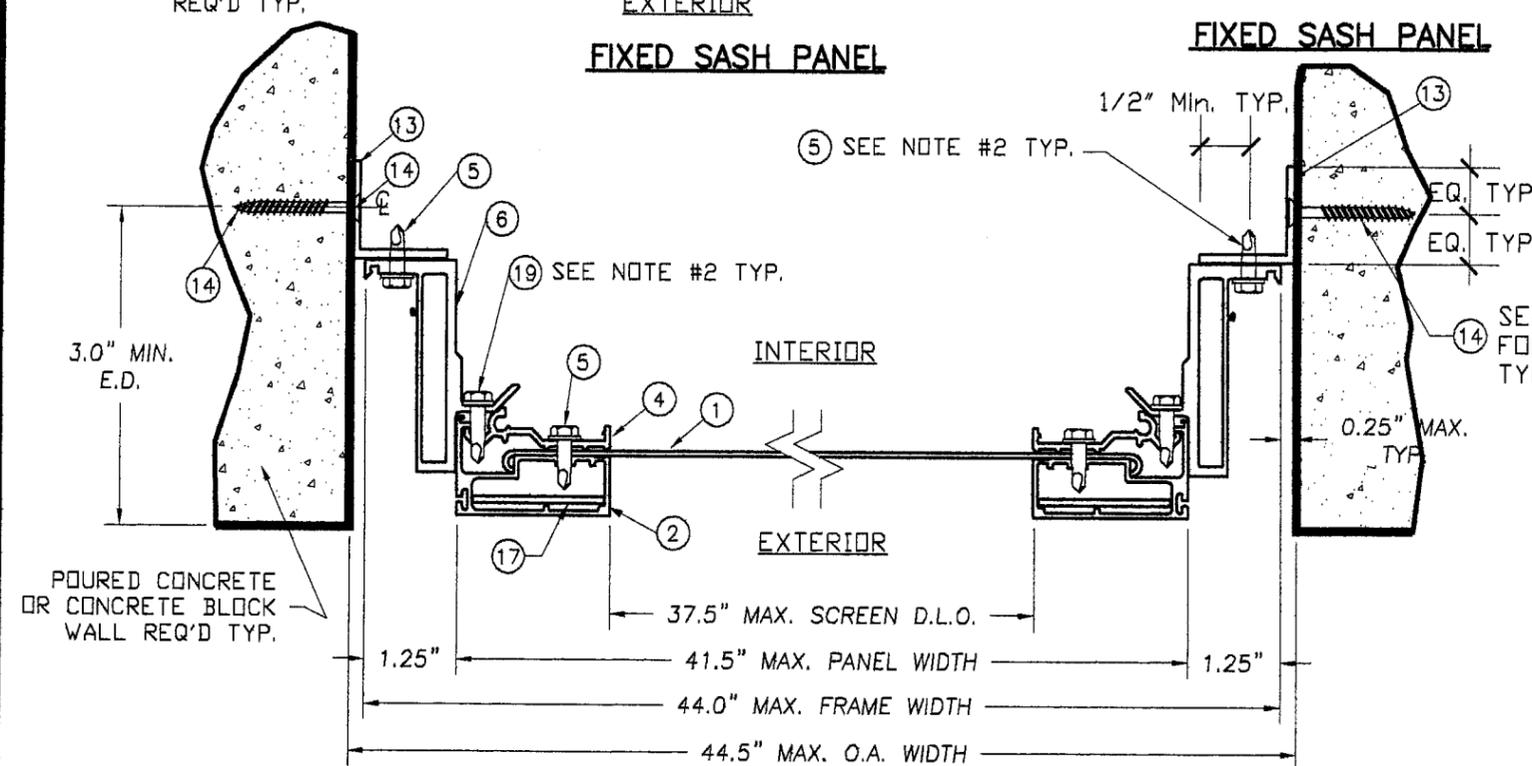
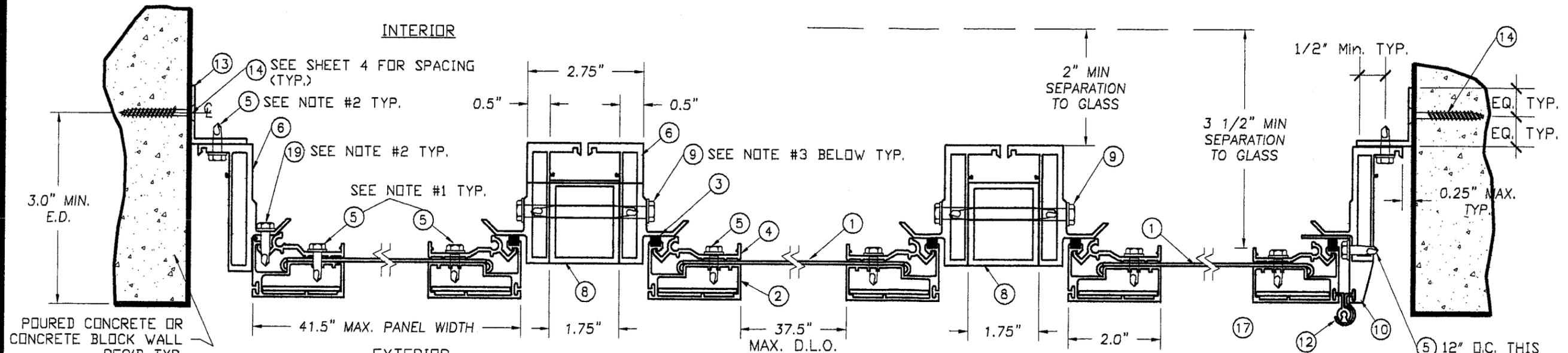
PHOENIX ARCHITECTURAL PRODUCTS SURE GUARD 2004 WINDOW SECURITY BARRIER SYSTEM

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 SHEET 2 of 6

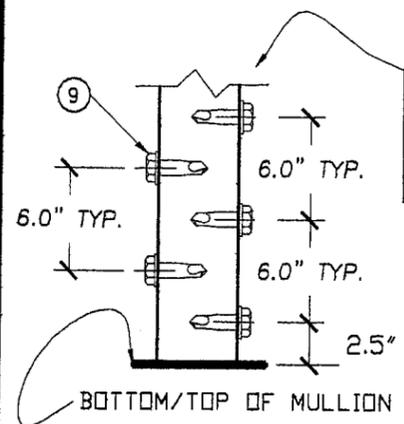


5 HORIZONTAL CROSS SECTION
3 Single Fixed Sash Panel

NOTE: 3
SCREWS 6" O.C. STAGGERED,
SPACED 2.5" MAX. FROM TOP & BOTTOM.

NOTE: 2
FIRST SCREW IS LOCATED AT 4" FROM
EACH CORNER, THEN 6" O.C. CONTINUOUS.

NOTE: 1 FOUR SCREWS IN EACH CORNER LEG
2" FROM EA. END AND SPACED 2" O.C.,
THEN CONTINUOUS 6" O.C.



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By *Helmut A. Mohr*
Miami Dade Product Control
Division
MIAMI-DADE COUNTY

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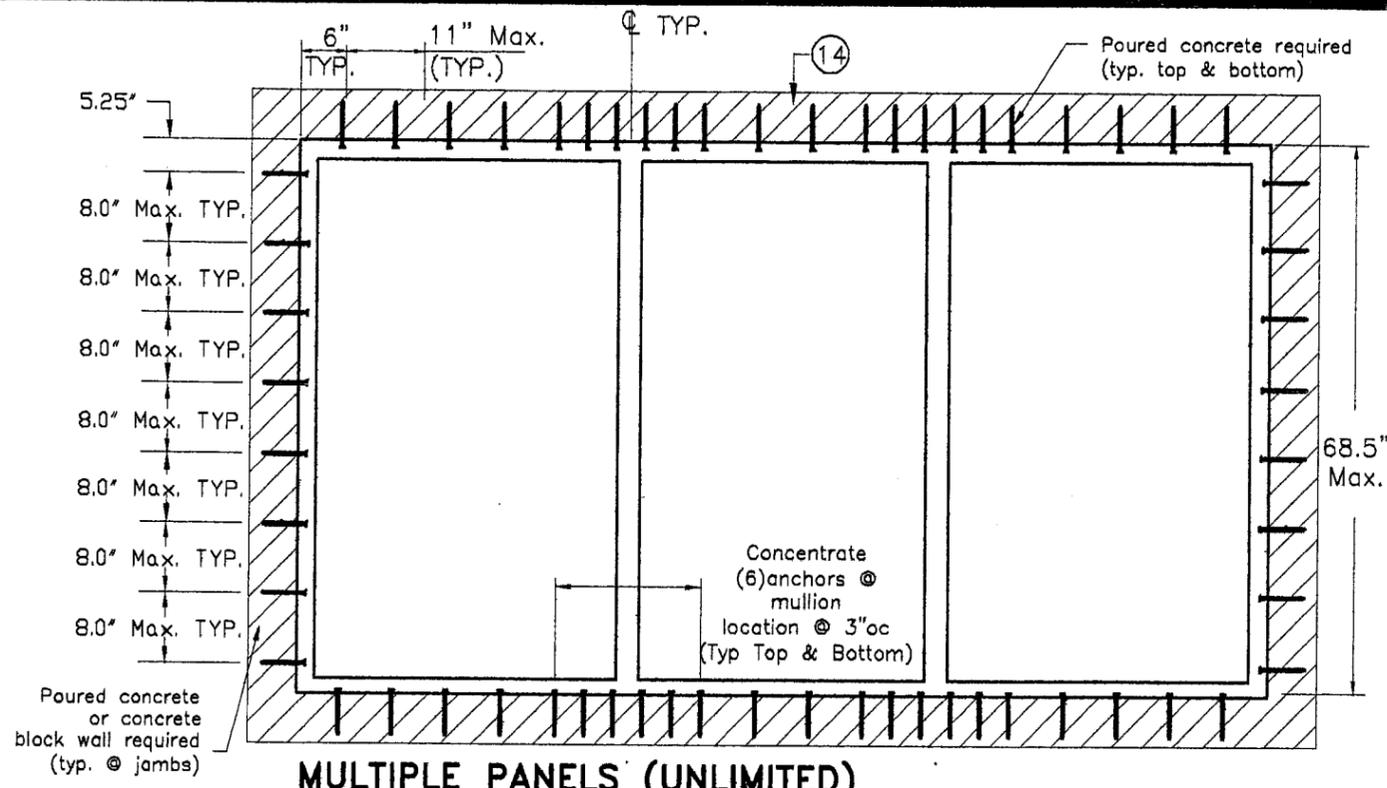
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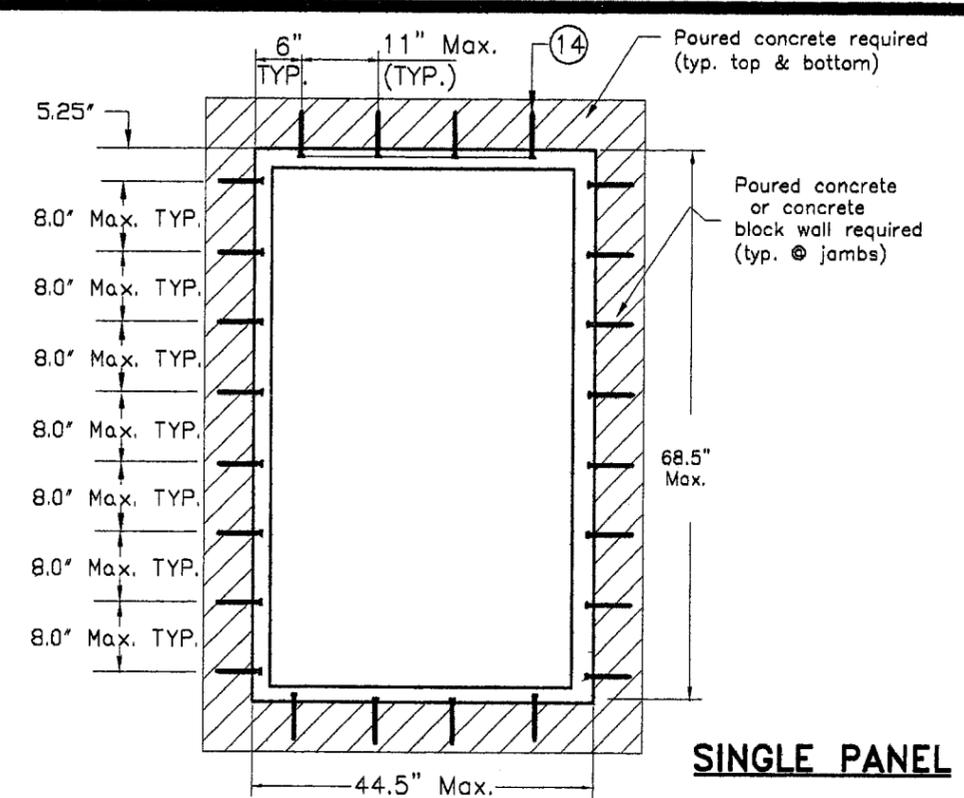
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1	08/15/05		
	03/25/04		

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SHEET 3 of 6

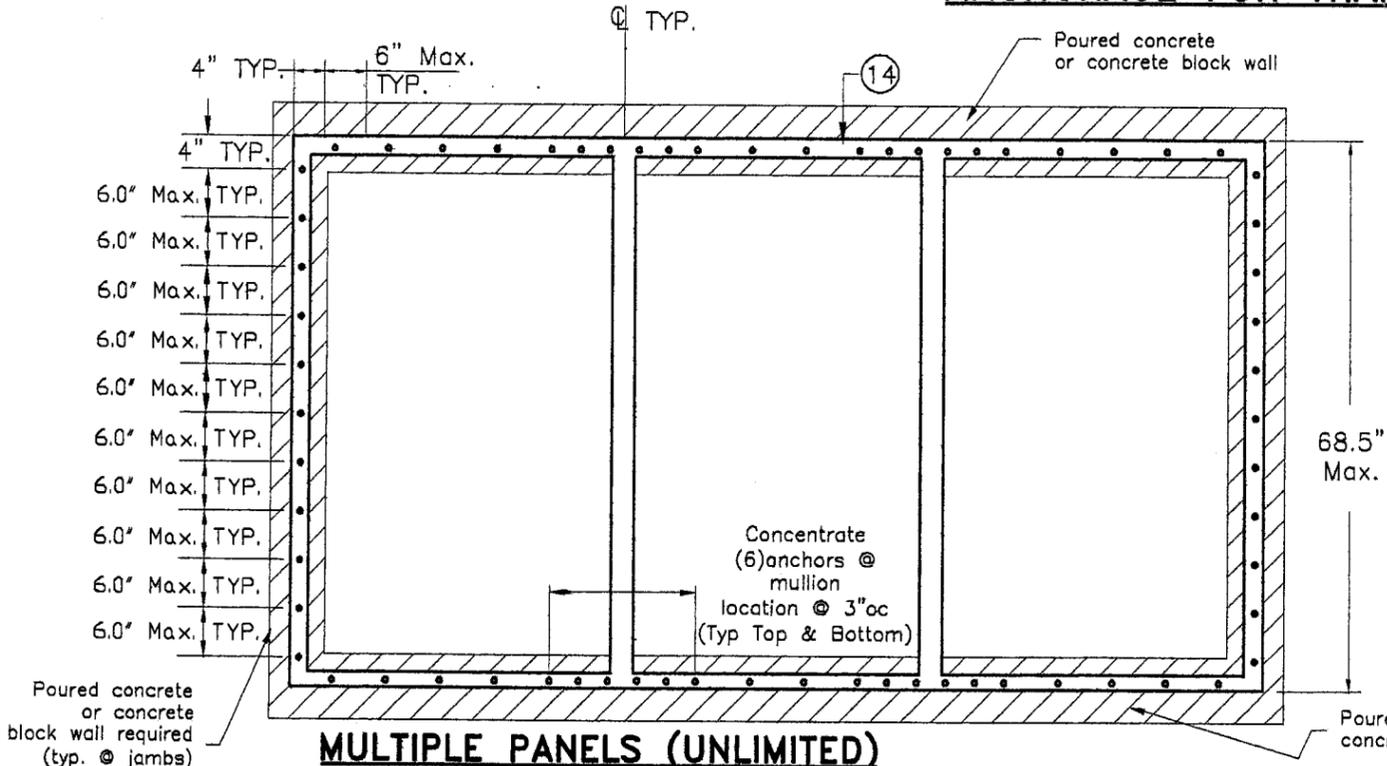


MULTIPLE PANELS (UNLIMITED)

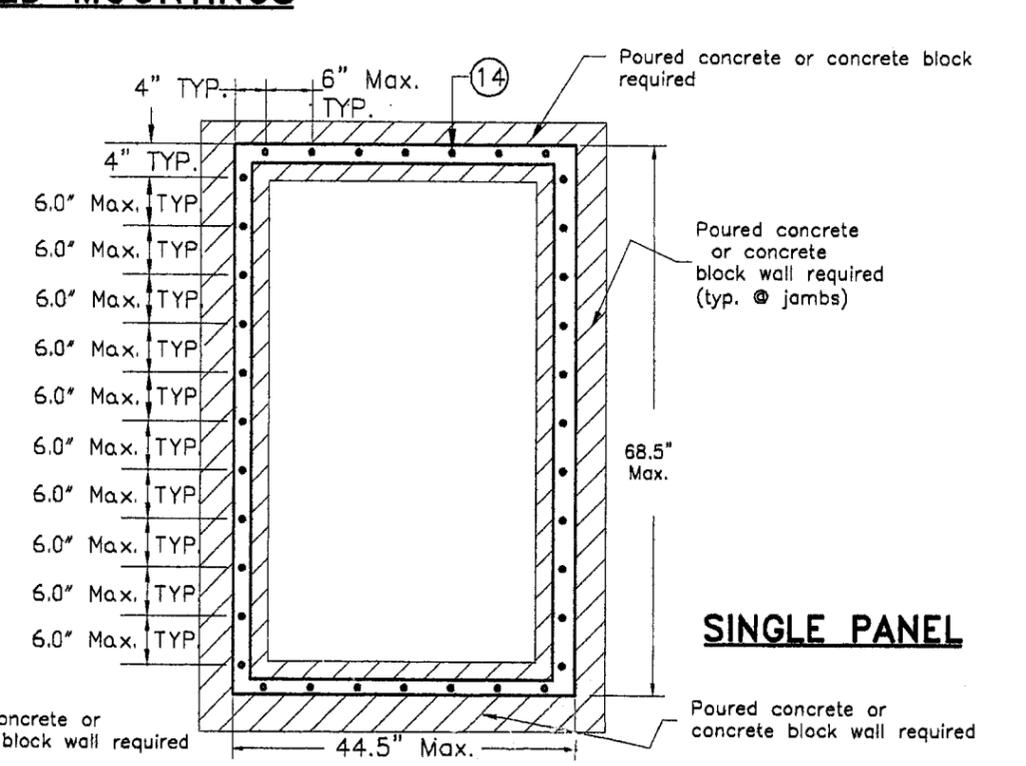


SINGLE PANEL

ANCHORAGE FOR TRAPPED MOUNTINGS



MULTIPLE PANELS (UNLIMITED)



SINGLE PANEL

ANCHORAGE FOR SURFACE MOUNTINGS

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 Expiration Date 06/10/2009
 By *Helmut A. Nelson*
 Miami Dade District Control
 Division
 MIAMI-DADE COUNTY

Walter A. Tillit Jr.
 WALTER A. TILLIT Jr., P. E.
 P.E. SEAL/SIGNATURE/DATE

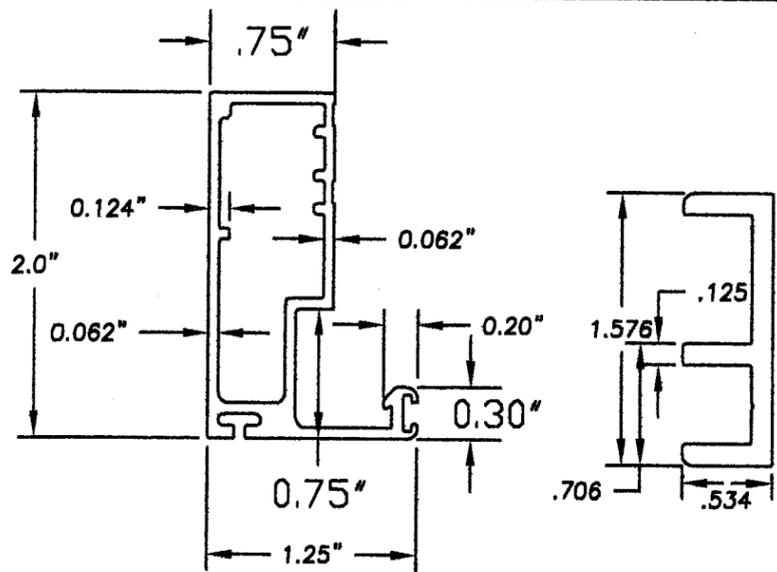


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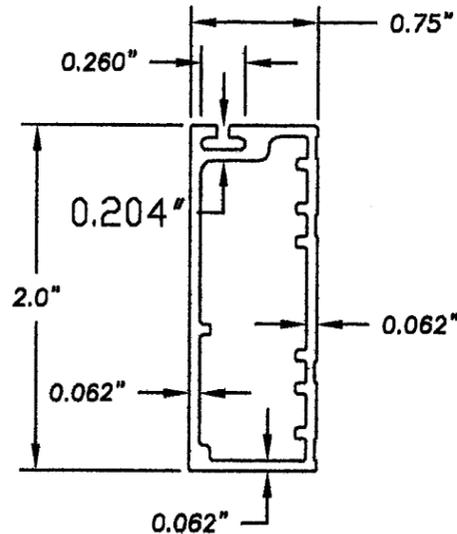
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 SHEET 4 of 6

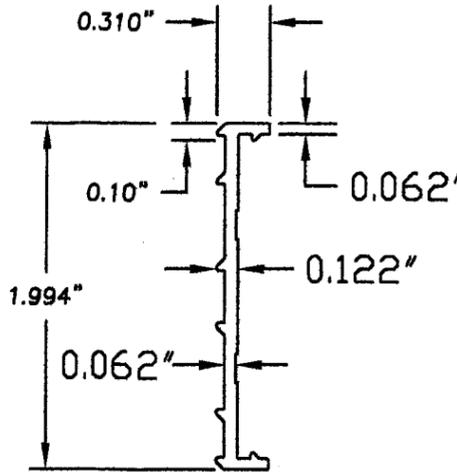


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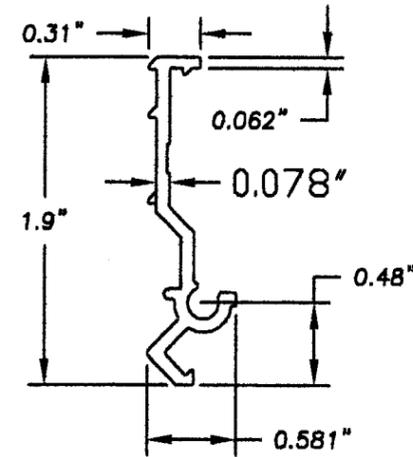
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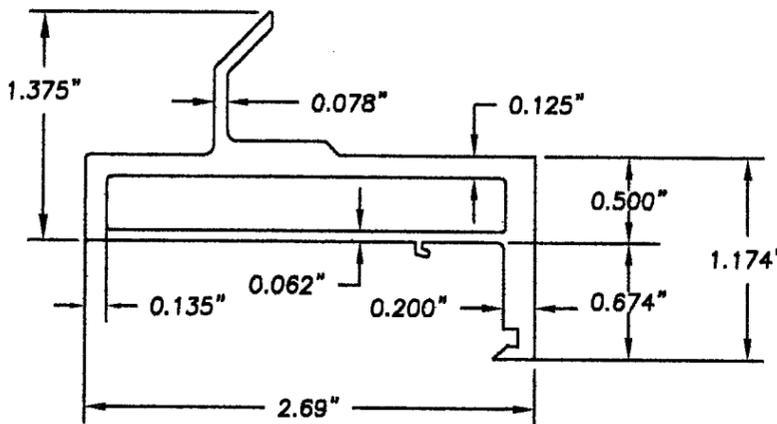
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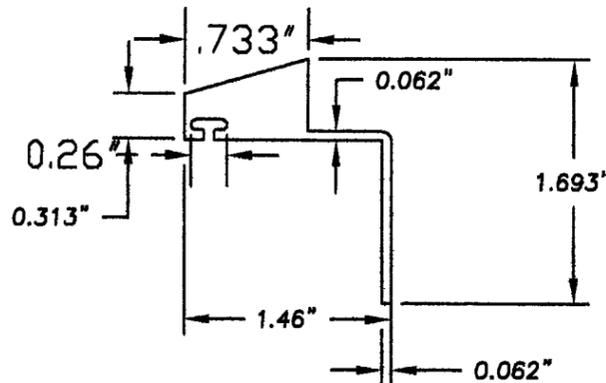
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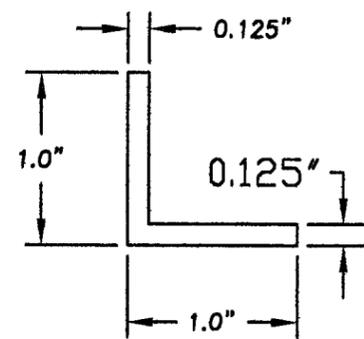
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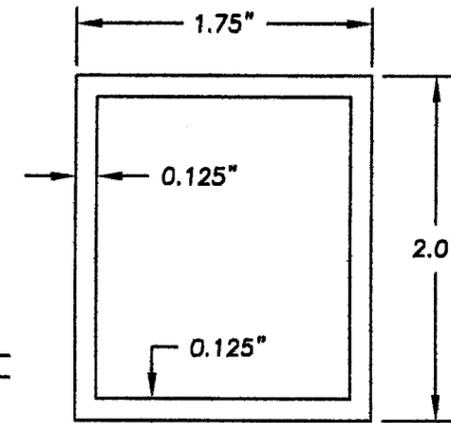
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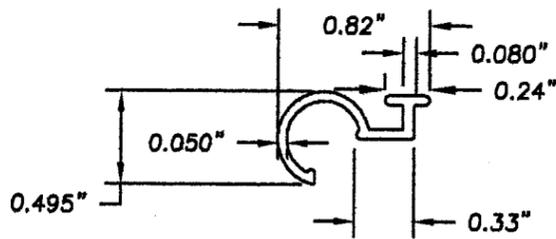
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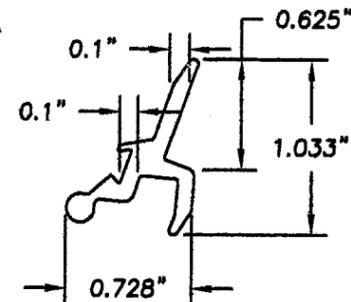
⑬ "L BAR"



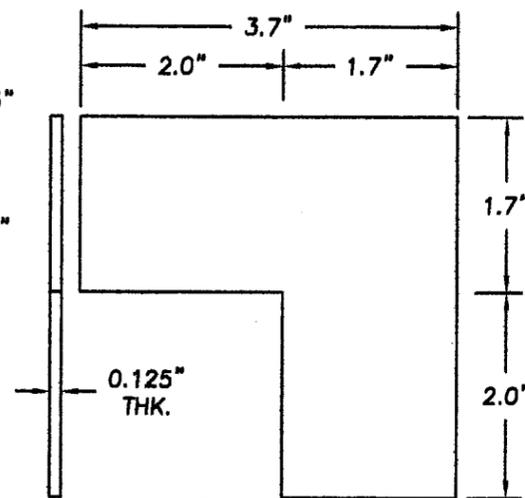
⑧ EXT. ALUM. TUBE



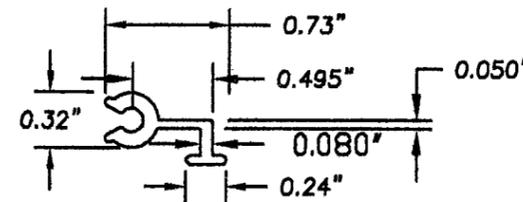
⑫ CIE-2



⑪ CIE-8



⑰ SP-7



⑮ CIE-1

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By *Helmut A. Mohr*
Miami Dade Product Control
Division
MIAMI-DADE COUNTY

[Signature]
WALTER A. TILLIT Jr., P. E.
P.E. SEAL/SIGNATURE/DATE

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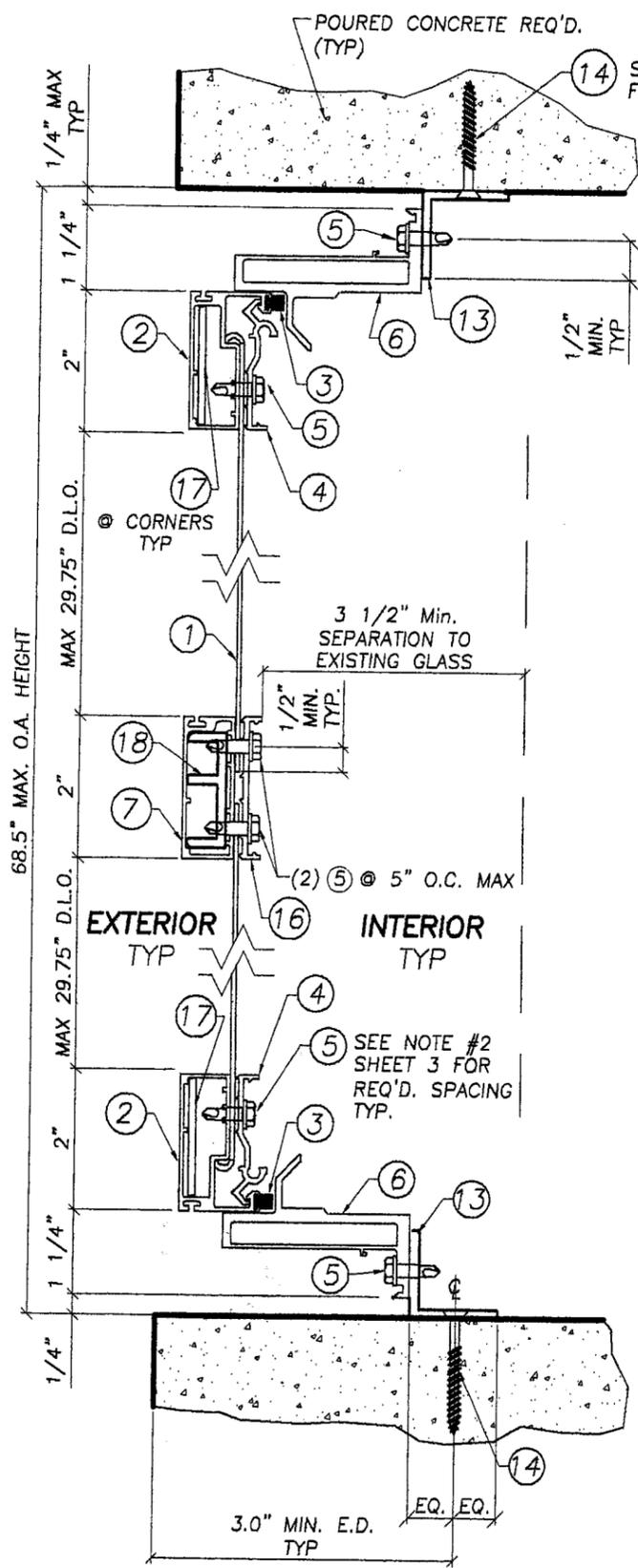
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SCALE: N.T.S.
DWG. BY: J.V.
DRAWING NO.: 05-282
SHEET 5 of 6

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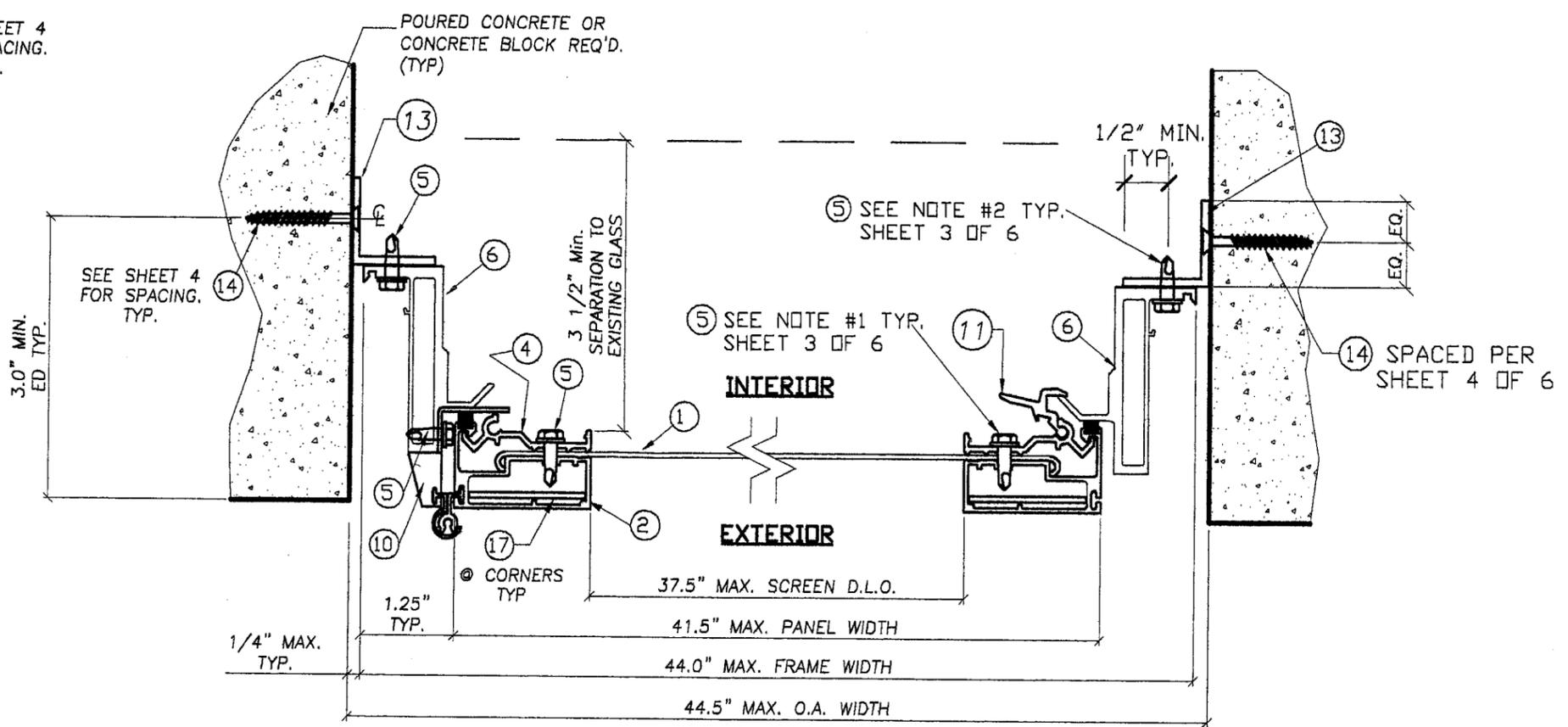
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WINDOW SECURITY BARRIER SYSTEM

SURE GUARD 2004
WINDOW SECURITY BARRIER SYSTEM

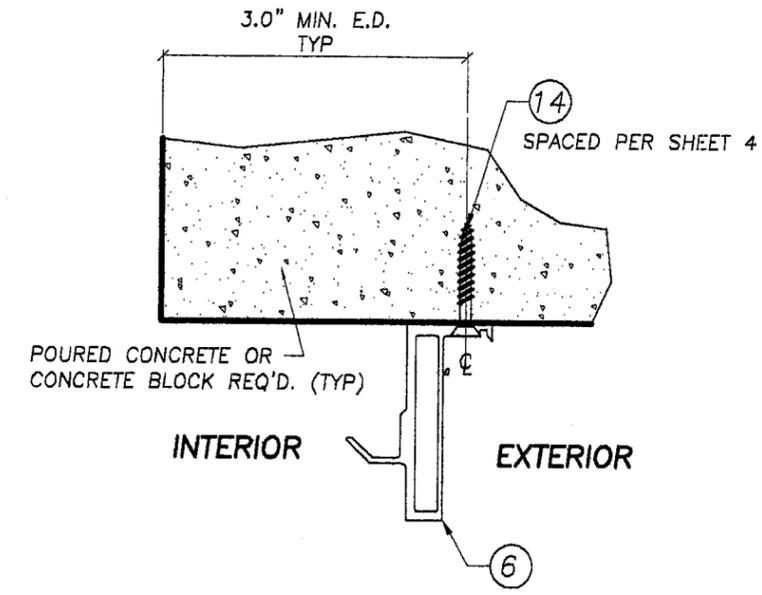
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1 VERTICAL CROSS SECTION
6 Side Hinge



2 HORIZONTAL CROSS SECTION
6 Side Hinge Operable Sash Panel



HORIZONTAL CROSS SECTION
Optional Surface Mount Method

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SURE GUARD 2004
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NO.	DATE	REVISIONS	BY
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SCALE: N.T.S.

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SHEET 6 OF 6

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Division
MIAMI-DADE COUNTY

[Signature]
9/16/05
WALTER A. TILLIT Jr., P. E.
P.E. SEAL/SIGNATURE/DATE

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