



**BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 3310-1563
(305) 375-2901 FAX (305) 315-2908**

NOTICE OF ACCEPTANCE (NOA)

**Alufab Incorporated.
1300 NW 38th Avenue
Opa Locka, FL 33054**

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: Aluminum Louver System.

APPROVAL DOCUMENT: Drawing No.02-522, titled "Aluminum Louver System" dated 11/12/02 with last revision on 11/12/02, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit, P.E., bearing the Miami-Dade County Product Control Renewal stamp with the NOA number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and 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 renews NOA # 03-0106.02 consists of this page, evidence page as well as approval document mentioned above.

The submitted documentation was reviewed by **Candido F. Font PE.**

[Handwritten signature]
01/15/04



**NOA No: 03-1205.01
Expiration Date: December 28, 2008
Approval Date: January 15, 2004
Page 1**

Alufab Incorporated.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS.

1. Drawing prepared by Tilteco, Inc. titled "Aluminum Louver System" Drawing No. 02-522, dated 11/12/02 with last revision on 11/12/02. signed and sealed by W. A. Tillit, PE.

B. TESTS.

1. Test report on Large Missile Impact Test per PA 201, Test, Cyclic Wind Pressure Test per PA 203, Test and Uniform Static Air Pressure Test per PA 202 of "Aluminum Louver System", prepared by Construction Testing Corporation, report No. 00-039, dated 08/10/2000, signed and sealed by Y. G. Kuri, PE
2. Clarification letter issued by Construction Testing Corporation on 10/31/2000, signed by G. Dotzler.

C. CALCULATIONS.

1. Allowable Load Calculations, dated 02/18/00, pages 1 to 10 of 10, prepared by Tilteco, Inc., signed and sealed by W. A. Tillit, PE.
2. Allowable Load Calculations, dated 10/13/00, pages 1 to 2 of 2, prepared by Tilteco, Inc., signed and sealed by W. A. Tillit, PE.

D. QUALITY ASSURANCE

1. Product Control Division.

E. MATERIAL CERTIFICATIONS.

1. Tensile Test on Alufab Aluminum Extrusion, prepared by Certified Testing Laboratories. No. CTL 792F, dated 08/28/00, signed and sealed by R. Patel, PE.

F. STATEMENTS

1. Code compliance letter issued by Tilteco, Inc., on 08/18/00, signed and sealed by W. A. Tillit, PE.
2. No financial interest letter issued by Tilteco, Inc., on 08/17/00, signed and sealed by W. A. Tillit, PE.
3. Changes to drawing only issued by Tilteco, Inc. on 12/13/02, signed and sealed by W. A. Tillit, PE.
4. No change letter issued by Alufab Inc on 11/24/03 and signed by D. Andrade.



01/15/04

Candido F. Font PE.
Sr. Product Control Examiner
NOA No 03-1205.01
Expiration Date: December 28, 2008
Approval: Date: January 15, 2004

GENERAL NOTES:

1. ALUMINUM LOUVER SYSTEM SHOWN ON THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) HAS BEEN DESIGNED IN ACCORDANCE WITH THE 2001 EDITION OF THE FLORIDA BUILDING CODE. DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1619 OF THE ABOVE MENTIONED CODE, FOR A BASIC WIND SPEED OF 146 m.p.h., AND IN ACCORDANCE W/ ASCE 7-98 STANDARD. ALUMINUM LOUVER SYSTEM'S ADEQUACY FOR IMPACT AND FATIGUE RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1606.1.4 OF THE ABOVE MENTIONED CODE AS PER CONSTRUCTION TESTING CORPORATION REPORTS # 00-002 & # 00-039 AS PER PA-201, PA-202 & PA-203 STANDARD.

2. ALL ALUMINUM EXTRUSIONS SHALL BE 6063-T6 ALLOY (UNLESS OTHERWISE NOTED).

3. ALL SCREWS TO BE STAINLESS STEEL 304 OR 316 SERIES W/ 50 ksi YIELD POINT AND 90 ksi TENSILE STRENGTH OR CORROSION RESISTANT COATED CARBON STEEL AS PER DIN 50018. BOLTS AT ④ AND THRU BOLTS AT MULLION TO BE ASTM A-307 GALVANIZED STEEL OR AISI 304 SERIES STAINLESS STEEL.

4. ALL ALUMINUM POP RIVETS TO BE 5052 ALUMINUM ALLOY WITH ALUMINUM MANDREL.

5. ALL ALUMINUM COMPONENTS FRAMING SHALL BE WELDED IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY LATEST EDITION REGULATIONS. USE CERTIFIED WELDERS. USE ER-5356 ELECTRODES.

6. ANCHORS TO CONCRETE/MASONRY SHALL BE AS FOLLOWS:

NAME	DIAMETER	MIN. PENETRATION	MIN. EDGE DISTANCE	MANUFACTURER
TAPCONS	1/4"	1 3/4"	3"	ITW/BULDEX OR ELCO TEXTRON
POWER BOLT	3/8"	2"	3"	POWERS FASTENING, INC.
POWER BOLT	1/2"	2 1/2"	3"	POWERS FASTENING, INC.

NOTE: CASES 1 THRU 3 AS PER ASSEMBLY DETAILS INDICATED ON SHEETS 2, 4 & 5.

(A) ANCHORS SHALL BE INSTALLED FOLLOWING ALL OF THE RECOMMENDATIONS AND SPECIFICATIONS OF THE ANCHOR'S MANUFACTURER.

7. THIS LOUVER SHALL BE ONLY INSTALLED IN A LOCATION WHERE THE ROOM BEHIND THE LOUVER IS DESIGNED TO DRAIN WATER PENETRATING INTO THE ROOM, AND THE ROOM WILL HOUSE WATER RESISTANT/WATER PROOF EQUIPMENT, COMPONENTS OR SUPPLIES.

8. IT SHALL BE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE SOUNDNESS OF THE STRUCTURE WHERE LOUVER SYSTEM IS TO BE ATTACHED TO INSURE PROPER ANCHORAGE.

9. (A) THIS PRODUCT APPROVAL DOCUMENT (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 OF THIS PRODUCT BASED ON THIS PRODUCT APPROVAL PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.

(C) THIS PRODUCT APPROVAL DOCUMENT WILL BE CONSIDERED INVALID IF MODIFIED.

(D) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE PROFESSIONAL OF RECORD (P.O.R) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.A.D.

(E) THIS P.A.D. SHALL COMPLY WITH SECTION 2: 61G15 OF THE FLORIDA ADMINISTRATIVE CODE.

10. LOUVER'S MANUFACTURER STAMP SHALL BE PLACED ON THE EXPOSED SURFACE OF LOUVER BLADE (COMPONENT ①).

ONE LABEL SHALL BE PLACED FOR EVERY OPENING. LABEL SHALL READ AS FOLLOWS:
ALUFAB, INC.
OPA LOCKA, FL.
MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED.

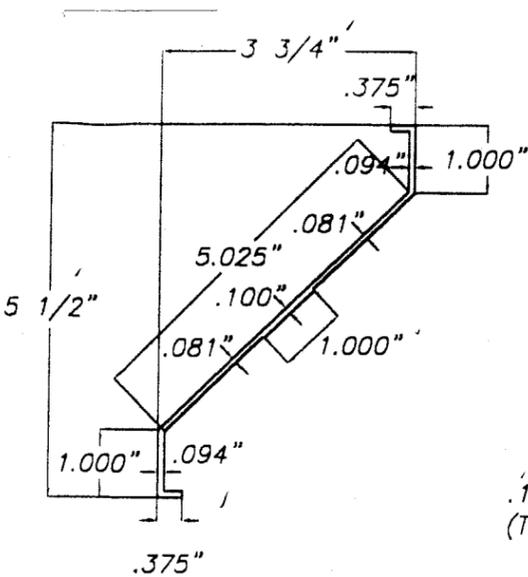
PRODUCT REVIEWED
as complying with the Florida Building Code
Acceptance No. 03-1205.01
Expiration Date 12/28/08

PRODUCT REVIEWED
as complying with the Florida Building Code
Acceptance No. 03-0106.05
Expiration Date 12/28/03

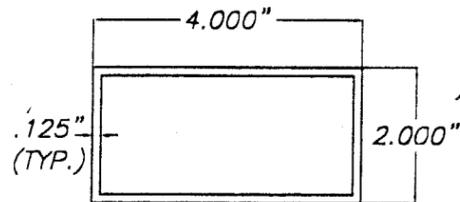
By: *[Signature]*
Miami Dade Product Control Division

By: *[Signature]*
Miami Dade Product Control Division

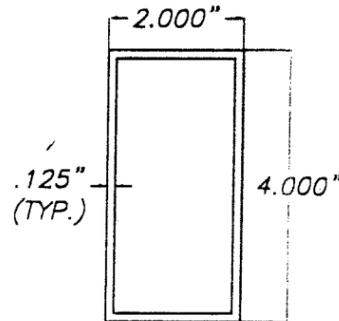
F.B.C.(H.V.H.Z.) / MIAMI-DADE COUNTY



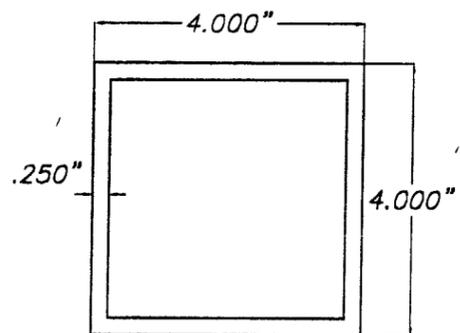
① LOUVER



② SILL/ HEADER TUBES

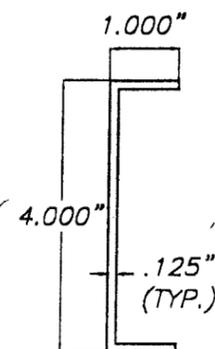


③ VERTICAL MULLION

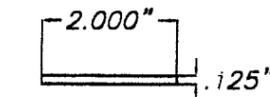


③A VERTICAL MULLION

6061-T6 ALLOY



④ JAMB CHANNEL



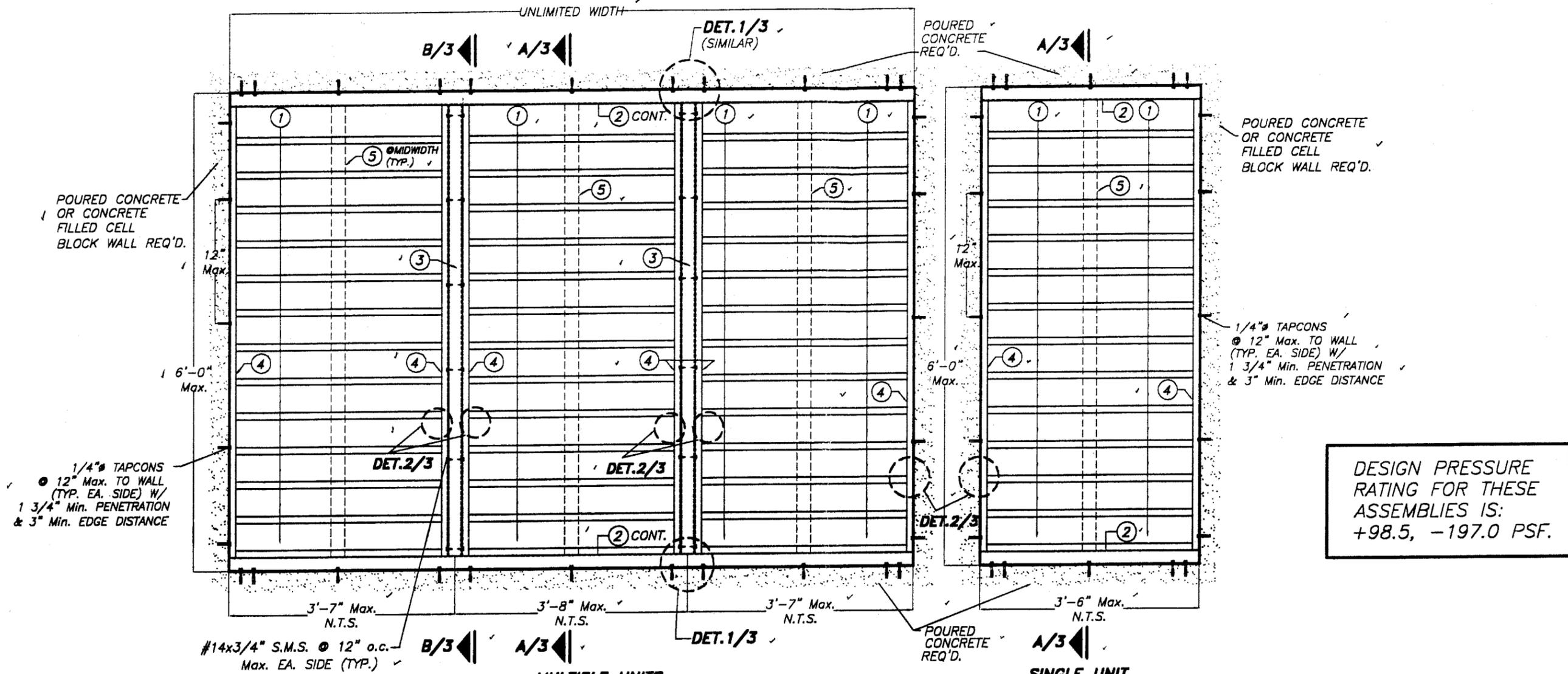
⑤ LOUVER IMPACT STRAP

COMPONENTS

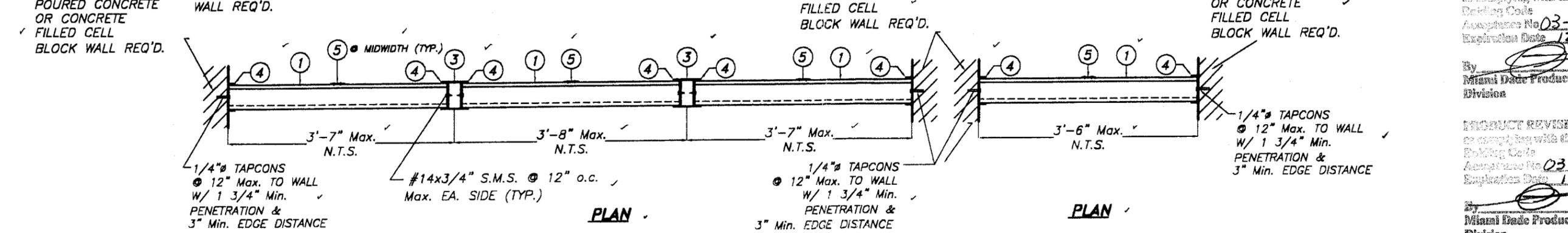
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[Signature]
12/19/02

 TILECO Inc. TILLIT TESTING & ENGINEERING COMPANY 6595 N.W. 36th St., Ste. 217, VIRGINIA GARDENS, FL 33166 Phone: (305)871-1530, Fax: (305)871-1531 EB-0006719 WALTER A. TILLIT Jr., P. E. FLORIDA Lic. # 44167	ALUMINUM LOUVER SYSTEM		AS SHOWN SCALE
	ALUFAB, INC. 13000 NW 38th AVENUE OPA LOCKA, FL 33054		11/12/02 DATE 02-522 DRAWING No
REV. No 1 2	DESCRIPTION OLD 00-61 -	DATE 11/12/02 -	REV. No 3 4



MULTIPLE UNITS ELEVATION **SINGLE UNIT ELEVATION**



PRODUCT RENEWED
 as complying with the Florida Building Code
 Acceptance No. 03-1205.01
 Expiration Date 12/28/08

By *[Signature]*
 Miami Dade Product Control Division

PRODUCT REVISED
 as complying with the Florida Building Code
 Acceptance No. 03-0106.05
 Expiration Date 12/28/03

By *[Signature]*
 Miami Dade Product Control Division

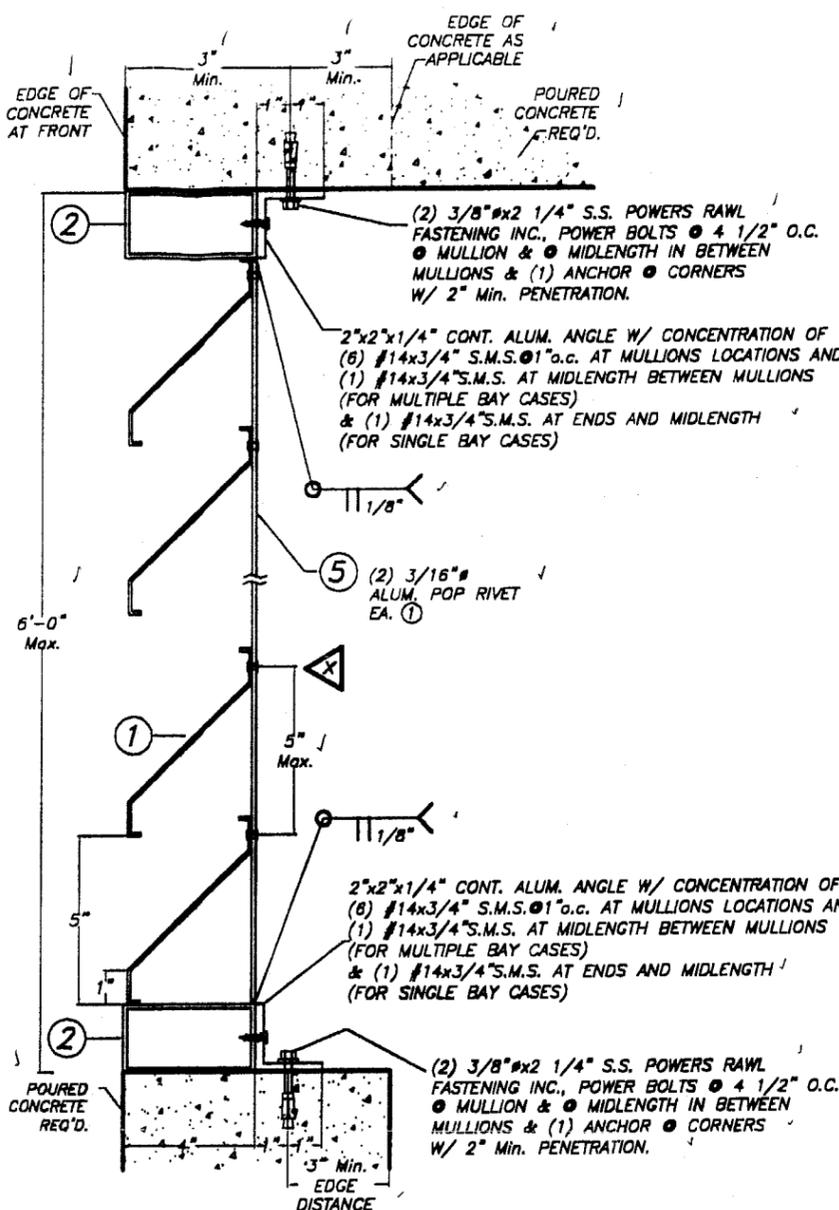
F.B.C.(H.V.H.Z.) / MIAMI-DADE COUNTY

MULTIPLE & SINGLE UNITS ASSEMBLY CASE 1
 SCALE: 3/4" = 1'-0"

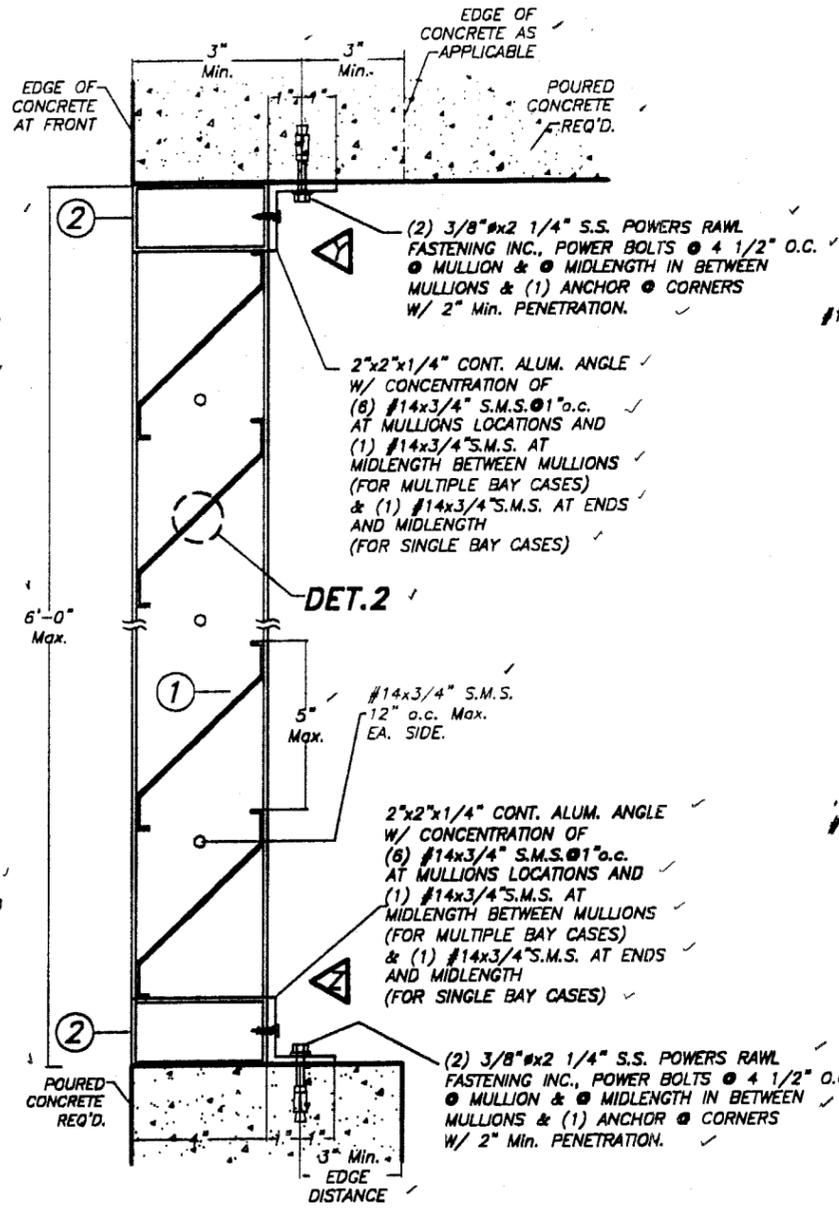
[Handwritten Signature]
 12/19/02

TILTECO INC.
 TILIT TESTING & ENGINEERING COMPANY
 6595 N.W. 38th St., Ste. 217, VIRGINIA GARDENS, FL 33168
 Phone: (305)871-1530, Fax: (305)871-1531
 EB-0006719
 WALTER A. TILLIT Jr. P. E.
 FLORIDA Lic. # 44167

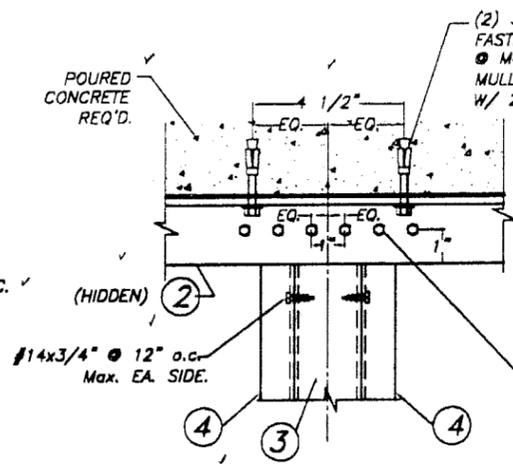
ALUMINUM LOUVER SYSTEM					AS SHOWN SCALE
ALUFAB, INC.					11/12/02 DATE
13000 NW 38th AVENUE OPA LOCKA, FL 33054					02-522 DRAWING No
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 00-61	11/12/02	3	-	-
2	-	-	4	-	-
					SHEET 2 OF 5



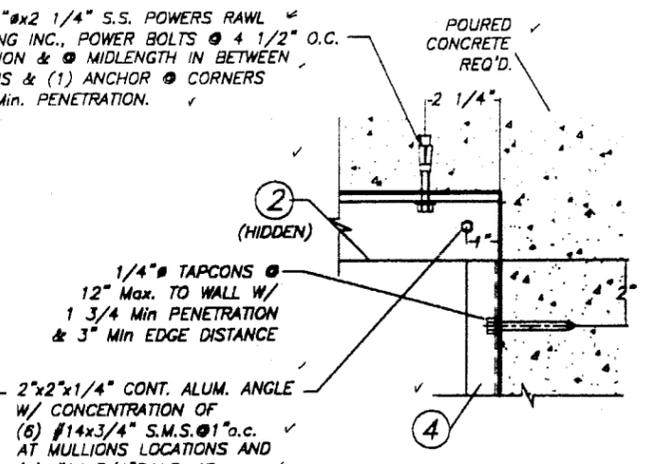
SECTION A-A
SCALE: 3/16" = 1"



SECTION B-B
SCALE: 3/16" = 1"

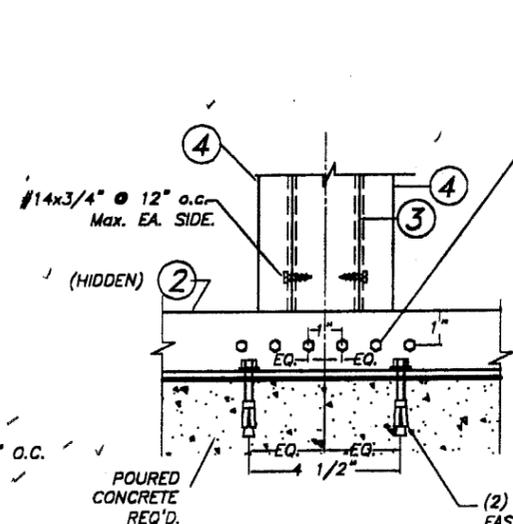


AT INTERIOR MULLIONS
(MULTIPLE BAY CASES)



AT CORNERS
(SINGLE AND MULTIPLE BAY CASES)

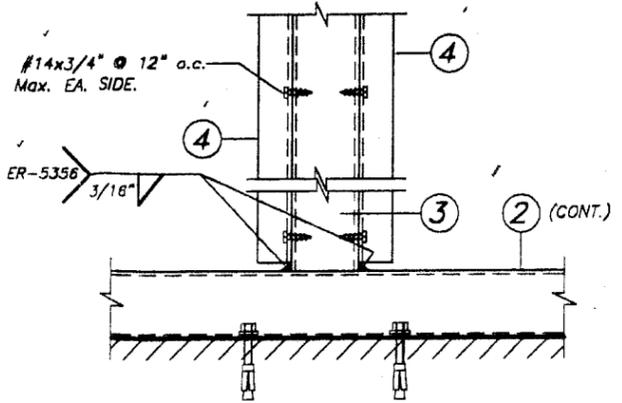
ELEVATIONS
SCALE: 3/16" = 1"



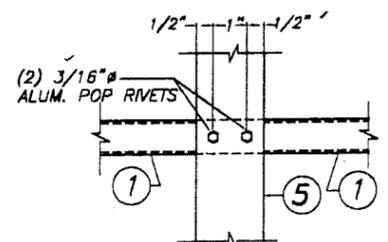
AT INTERIOR MULLIONS
(MULTIPLE BAY CASES)

AT CORNERS
(SINGLE AND MULTIPLE BAY CASES)

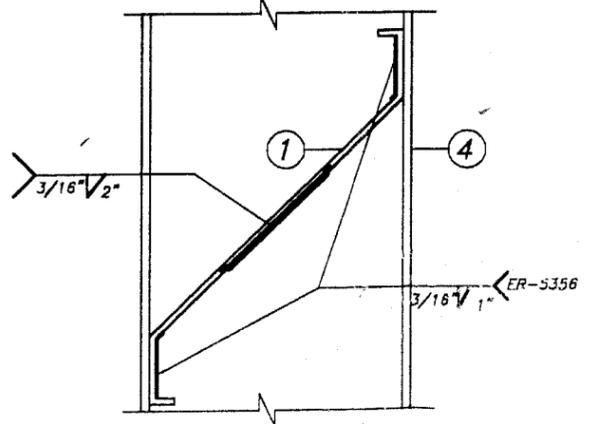
ELEVATIONS
SCALE: 3/16" = 1"



DETAIL 1
SCALE: 3/16" = 1"



ELEVATION
SCALE: 3/16" = 1"



DETAIL 2
SCALE: 3/32" = 1"

PRODUCT REVIEWED as complying with the Florida Building Code Acceptance No. 03-1205.01 Expiration Date 12/28/08

By: *[Signature]*
Miami Dade Product Control Division

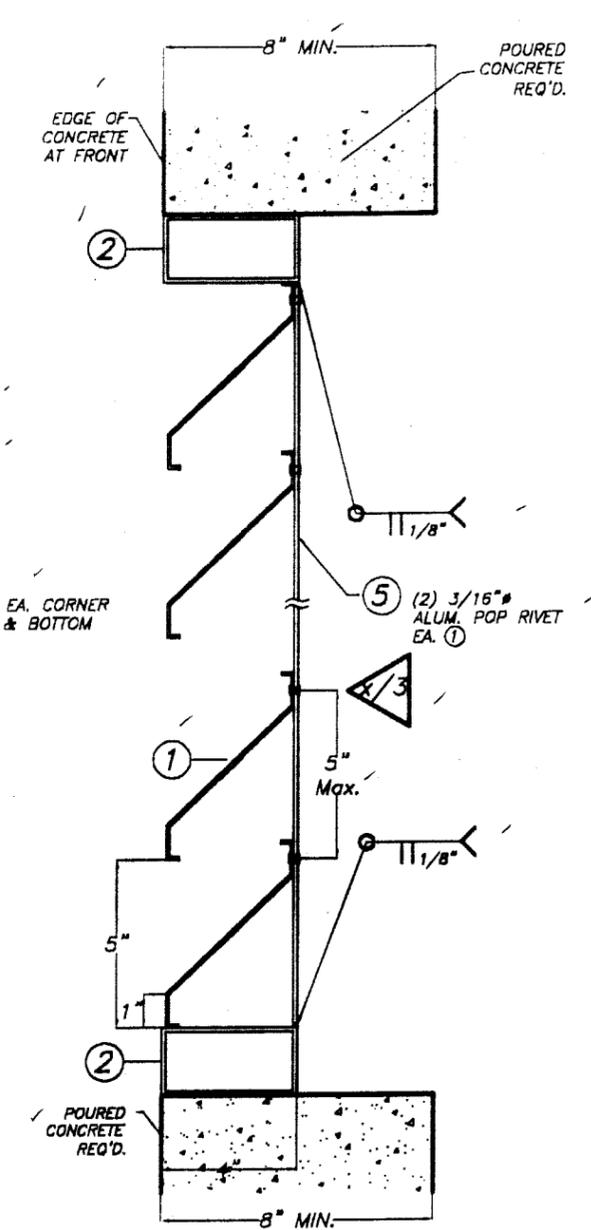
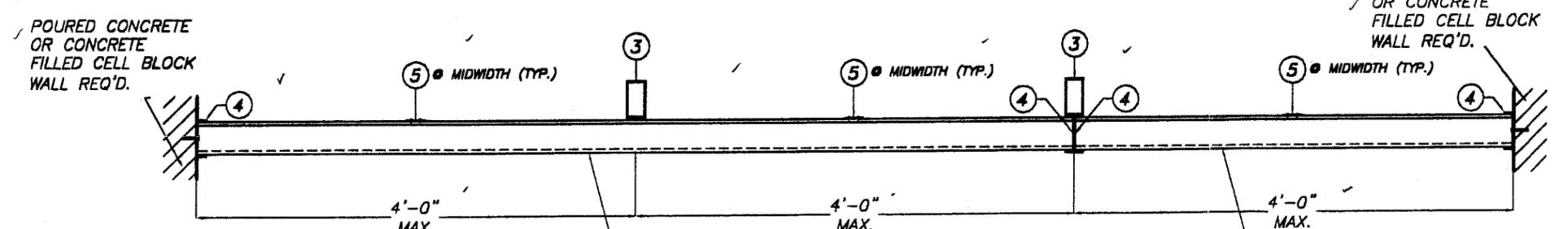
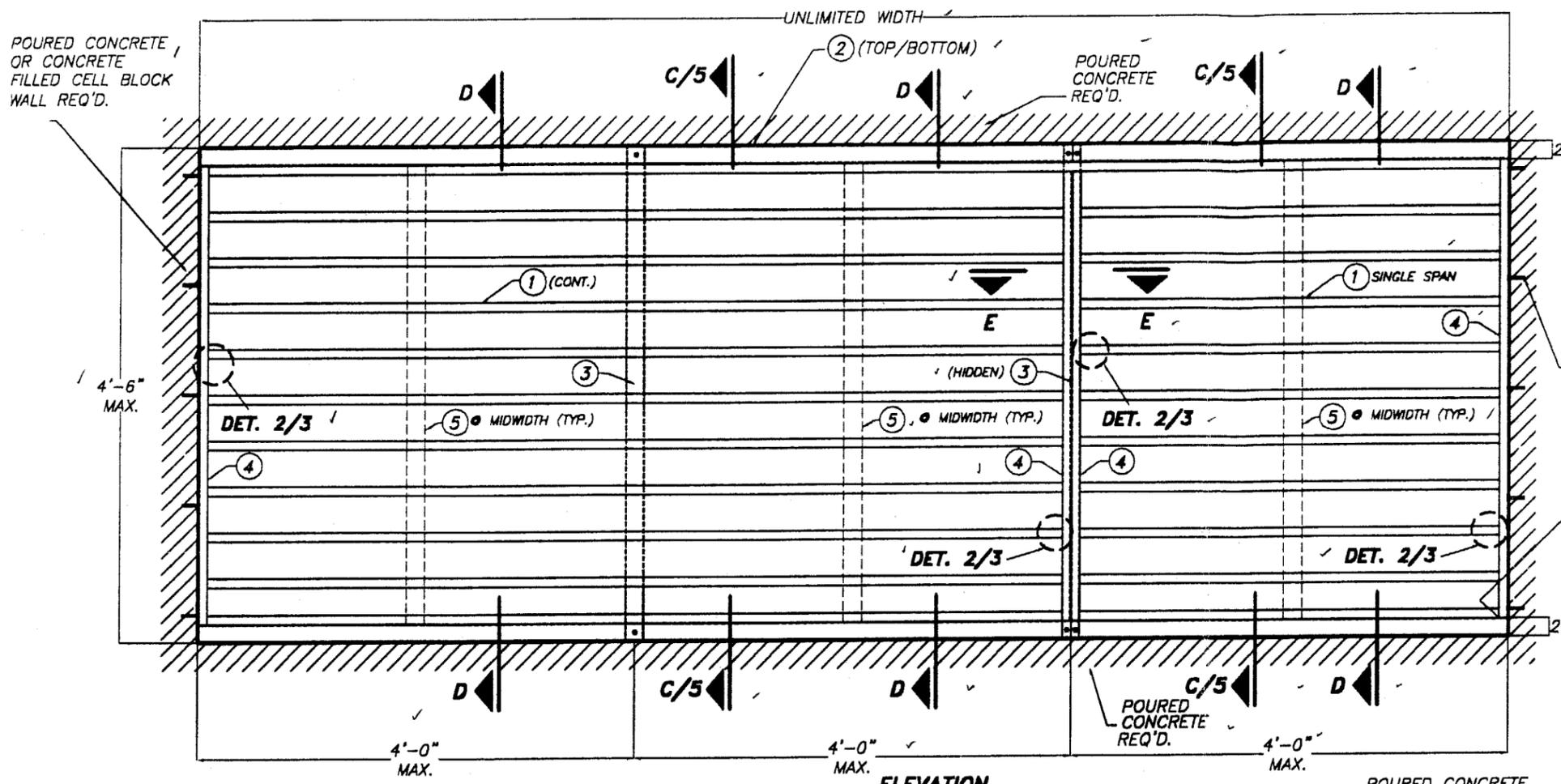
PRODUCT REVISED as complying with the Florida Building Code Acceptance No. 03-0106.05 Expiration Date 12/28/03

By: *[Signature]*
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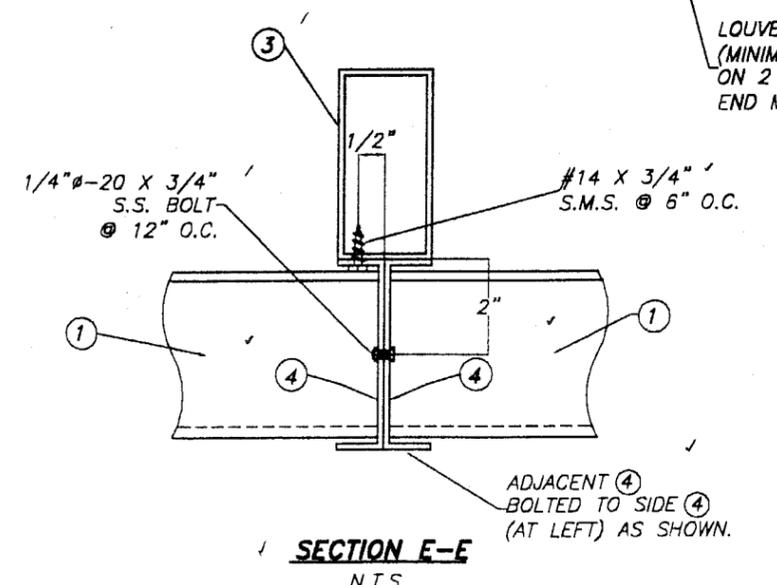
F.B.C.(H.V.H.Z.) / MIAMI-DADE COUNTY

TILECO Inc.
TILLIT TESTING & ENGINEERING COMPANY
6595 N.W. 36th St., Ste. 217, VIRGINIA GARDENS, FL 33166
Phone: (305)871-1530 Fax: (305)871-1531
EB-0006719
WALTER A. TILLIT Jr. P. E.
FLORIDA Lic. # 44167

ALUMINUM LOUVER SYSTEM						AS SHOWN SCALE
ALUFAB, INC.						11/12/02 DATE
13000 NW 38th AVENUE OPA LOCKA, FL 33054						02-522 DRAWING No
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	SHEET 3 OF 5
1	OLD 00-61	11/12/02	3			
2			4			



SECTION D-D
SCALE: 3/16" = 1"



SECTION E-E
N.T.S.

PLAN
LOUVER BLADE ① (MINIMUM CONTINUOUS ON 2 BAYS BETWEEN END MEMBERS ④)
LOUVER BLADE ① (SINGLE SPAN BETWEEN END MEMBERS ④)

MULTIPLE & SINGLE UNITS ASSEMBLY CASE 2
SCALE: 3/4" = 1'-0"

DESIGN PRESSURE RATING FOR THIS ASSEMBLY IS:
+96.8, -96.8 PSF.

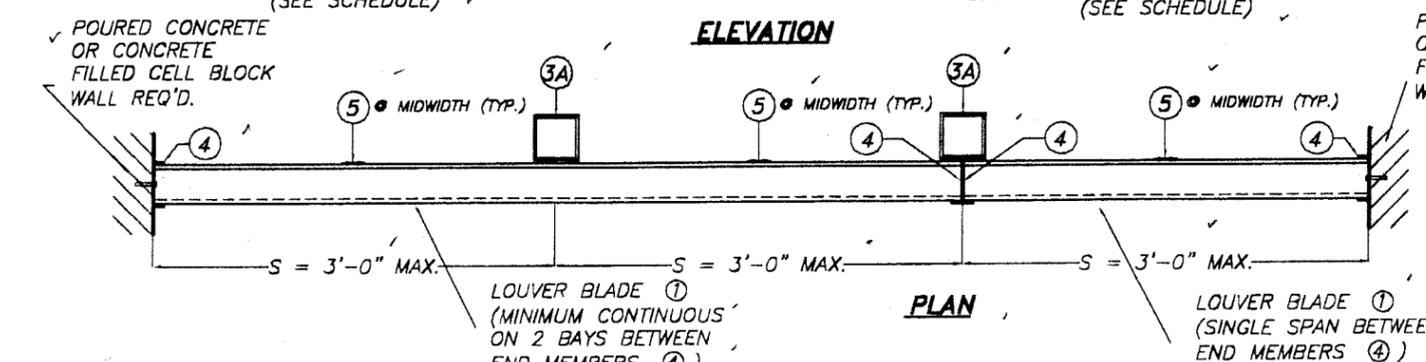
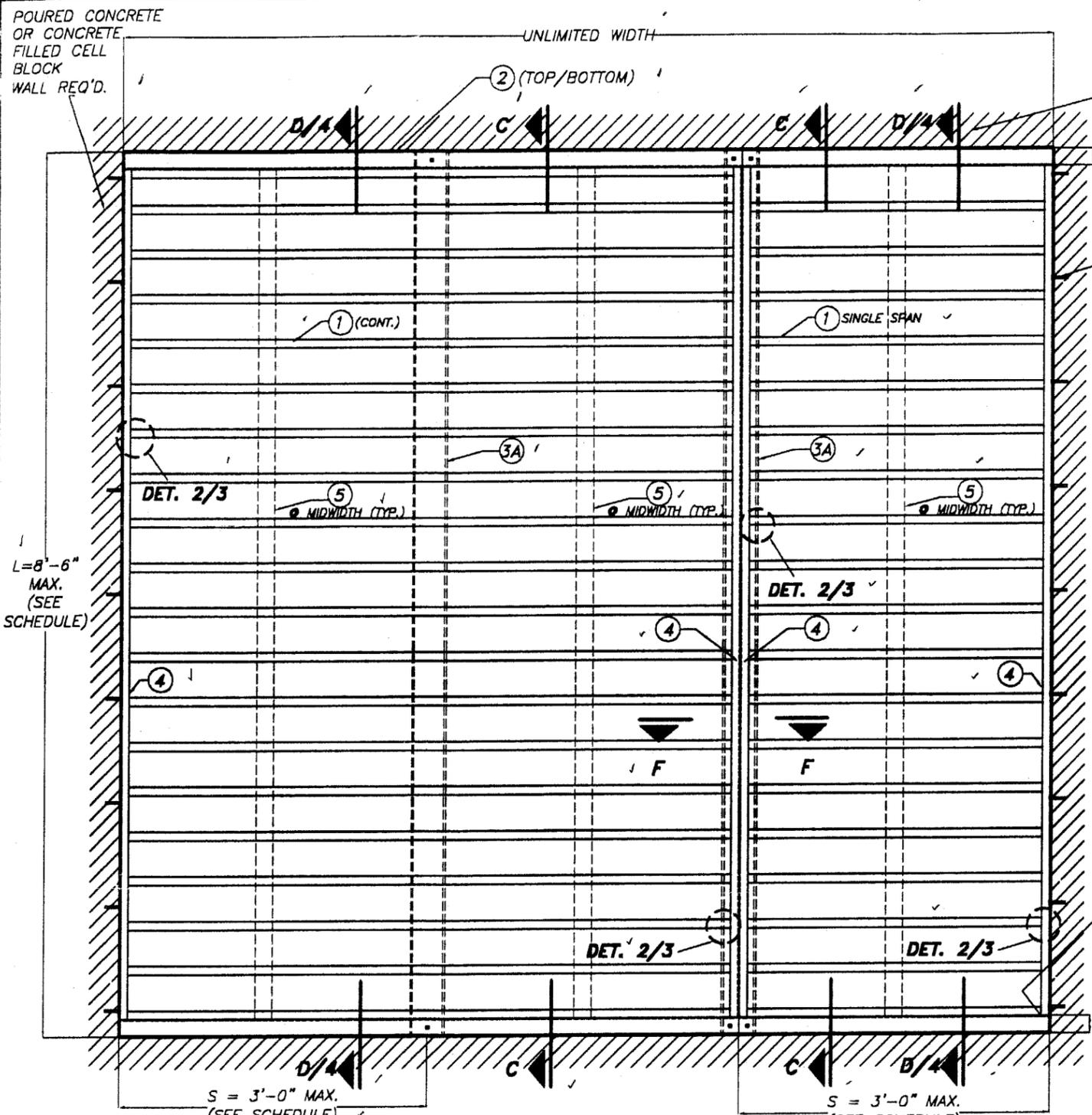
PRODUCT RENEWED as complying with the Florida Building Code Acceptance No. 03-1205.01 Expiration Date 12/28/08
By Miami Dade Product Control Division

PRODUCT REVISED as complying with the Florida Building Code Acceptance No. 03-0106.05 Expiration Date 12/28/03
By Miami Dade Product Control Division

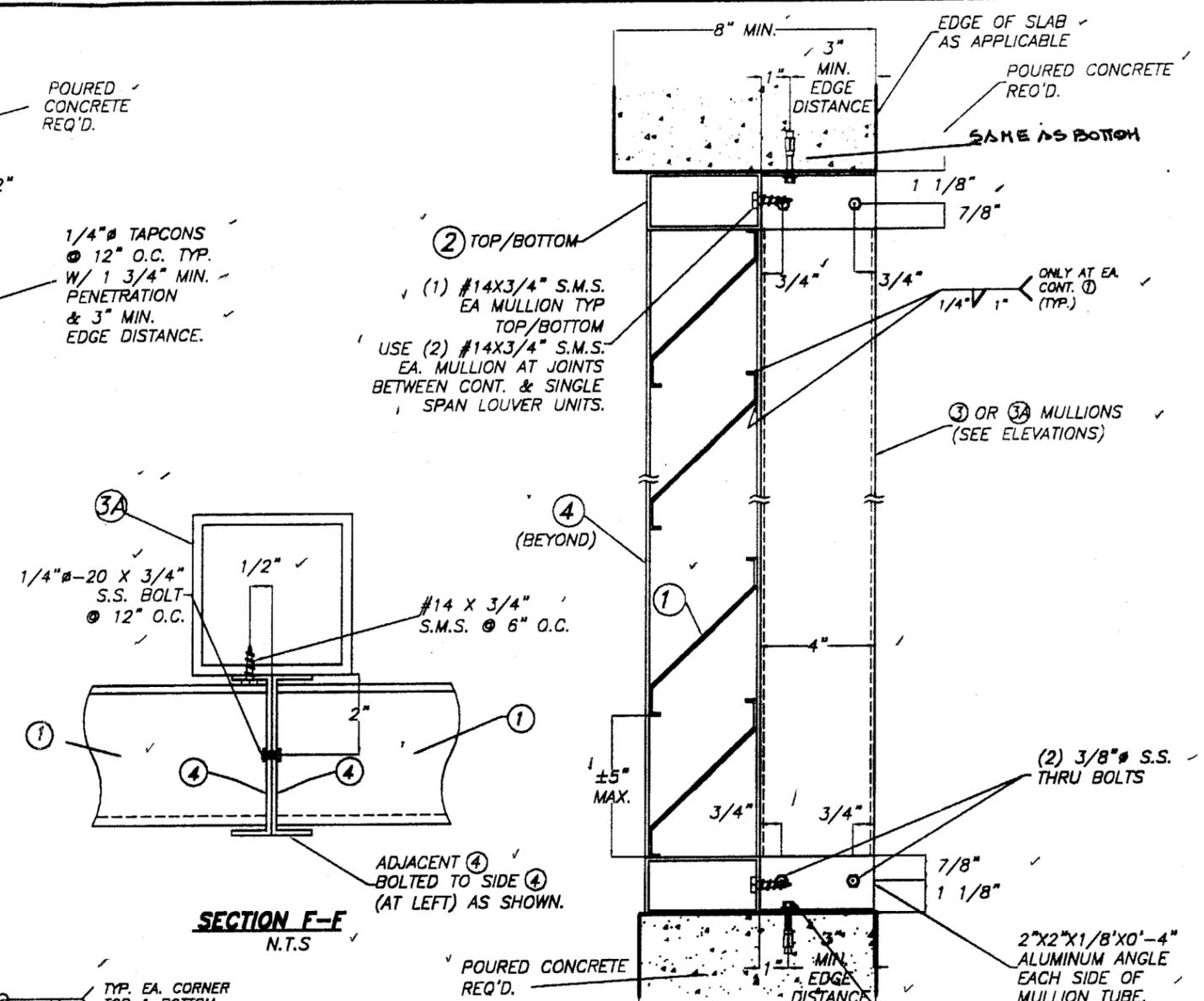
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 TILTECO inc. TILLIT TESTING & ENGINEERING COMPANY 6595 N.W. 36th St., Ste. 217, VIRGINIA GARDENS, FL 33166 Phone: (305)871-1530 Fax: (305)871-1531 EB-0006719 WALTER A. TILLIT Jr. P. E. FLORIDA Lic. # 44167		ALUMINUM LOUVER SYSTEM		AS SHOWN SCALE	
		ALUFAB, INC. 13000 NW 38th AVENUE OPA LOCKA, FL 33054		11/12/02 DATE	
				02-522 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 00-01	11/12/02	3		
2			4		

SHEET 4 OF 5



MULTIPLE & SINGLE UNITS ASSEMBLY CASE 3
SCALE: 3/4"=1'-0"



DESIGN PRESSURE RATING (W) psf. AND MAXIMUM HEIGHT (L) ft., FOR THIS ASSEMBLY IS:

W (psf)		S (in.)	
		30"	36"
+98.5	-170.0	8'-6"	8'-0"
+98.5	-180.0	8'-4"	7'-11"
+98.5	-190.0	8'-2"	7'-9"
+98.5	-197.0	8'-1"	7'-8"

TYPICAL SECTION C-C
SCALE: 3/16" = 1"

PRODUCT RENEWED as complying with the Florida Building Code Acceptance No. **03-1205.01** Expiration Date **12/28/08**

By *[Signature]*
Miami Dade Product Control Division

PRODUCT REVISED as complying with the Florida Building Code Acceptance No. **03-0106.05** Expiration Date **12/28/03**

By *[Signature]*
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ALUMINUM LOUVER SYSTEM

ALUFAB, INC.
13000 NW 38th AVENUE
OPA LOCKA, FL 33054

AS SHOWN SCALE

11/12/02 DATE

02-522 DRAWING No

SHEET 5 OF 5