



**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) 372-6339**

**NOTICE OF ACCEPTANCE (NOA)**

**www.maimidade.gov/buildingcode**

**Greenheck Fan Corporation  
P.O. Box 410  
525 Western Road  
Schofield, WI 54476-0410**

**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: Model "ESS-501D" Aluminum Louver – L.M.I.**

**APPROVAL DOCUMENT:** Drawing No. A1, A2, D1, D2 & D3, titled "ELEVATIONS & DETAILS ESS-501D METRO DADE LOUVERS" dated November 09, 1998 with the latest revision #12, dated March 16, 2007, prepared by Greenheck, dated March 23, 2007, signed and sealed by L. David Rice, P.E., bearing the Miami-Dade County Product Control Renewal 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 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.

**REVISION** 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 is a **Private Label and renews NOA # 07-0404.04** 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 **Carlos M. Utrera, P.E.**



*[Handwritten Signature]*  
6/26/08

**NOA No. 08-0611.08  
Expiration Date: July 06, 2009  
Approval Date: July 17, 2008  
Page 1**

**Greenheck Fan Corporation**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No.'s **A1, A2, D1, D2 and D3**, titled "ELEVATIONS & DETAILS ESS-501D METRO DADE LOUVERS" dated November 09, 1998 with the latest revision #12, dated March 16, 2007, prepared by Greenheck, dated March 23, 2007, signed and sealed by L. David Rice, P.E.

**B. TESTS**

1. Test reports on: 1) Uniform Static Air Pressure Test, Loading, per TAS 202-94  
3) Large Missile Impact Test, per TAS 201-94  
5) Cyclic Wind Pressure Loading, per TAS 203-94  
Along with marked-up drawings and installation diagram of "K/CB605 Louvers for the American Airline Arena", prepared by Architectural Testing, Inc., Test Report No. **ATI 01-34323.01**, dated April 15, 1999, signed and sealed by A. N. Reeves, P.E.  
*(Submitted under previous NOA# 05-0912.13)*

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with FBC-2004, prepared by Rice Engineering, dated March 16, 2007, signed and sealed by L. David Rice, P.E.  
*(Submitted under previous NOA# 07-0404.04)*
2. Structural Load Verification calculations and structural analysis, prepared by Airolite Architectural Louvers, Grilles & Sun, dated May 11, 1999, signed and sealed by J. F. Bir, P.E.  
*(Submitted under previous NOA# 00-0112.01)*

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. None

**F. STATEMENTS**

1. Statement letter of conformance, dated June 04, 2008, signed and sealed by L. David Rice, P.E.
2. Testing agreement letter, dated February 19, 2008 between Fenestration Testing Laboratory (ATI) and Greenheck Fan Corporation, issued by ATI.
3. Revision Request Letter issued by Greenheck Fan Corporation on March 27, 2007, signed by Michael L. Watz, Jr., P.E.  
*(Submitted under previous NOA# 07-0404.04)*



**Carlos M. Utrera, P.E.**  
Product Control Examiner  
NOA No. 08-0611.08

Expiration Date: July 06, 2009  
Approval Date: July 17, 2008

**Greenheck Fan Corporation**

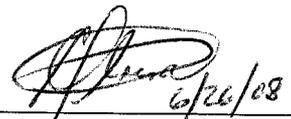
**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**F. STATEMENTS (CONTINUED)**

4. Testing agreement letter, dated February 17, 2007 between Fenestration Testing Laboratory (ATI) and Greenheck Fan Corporation, issued by ATI.  
*(Submitted under previous NOA# 07-0404.04)*
5. Assets Purchase Agreement between The Airolite Company, Louv-Aire, Inc. and The Airolite Company, LLC, dated June 30, 2004, signed by R. A. Greenheck and Leight Murray.  
*(Submitted under previous NOA# 05-0912.13)*
6. Private Labeling Agreement document in conformance to BCCO guidelines between The Airolite Company, LLC and Greenheck Fan Corporation signed by R. Greenheck and P. Neitzel and notarized by K. K. Steffek.  
*(Submitted under previous NOA# 05-0912.13)*
7. Letter of no change issued by The Airolite Company, LLC, dated May 29, 2003, signed by Randal Geedey.  
*(Submitted under previous NOA# 03-0306.02)*
8. Statement letter of conformance, dated May 08, 2000, signed and sealed by D. G. Farabaugh, P.E.  
*(Submitted under previous NOA# 00-0112.01)*
9. Laboratory compliance letter for Test Report no. **ATI 01-34323.01**, issued by Architectural Testing, Inc., dated April 15, 1999, signed and sealed by A. N. Reeves, P.E.  
*(Submitted under previous NOA# 00-0112.01)*

**G. OTHERS**

1. Notice of Acceptance No. **07-0404.04**, issued to Greenheck Fan Corporation for their Series "Aluminum Louver Model ESS-501D", approved on May 17, 2008 and expiring on July 06, 2008.
2. One year additional conditional approval, dated July 17, 2008, subjected to successful verification test, the final approval will be balanced of total 5 years.
3. One year conditional approval, dated May 17, 2007, subjected to successful verification test.  
*(Submitted under previous NOA# 07-0404.04)*



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**Carlos M. Utrera, P.E.**  
Product Control Examiner  
NOA No. 08-0611.08  
Expiration Date: July 06, 2009  
Approval Date: July 17, 2008

**GENERAL NOTES:**

- 1) MAXIMUM UNSUPPORTED BLADE LENGTH SHALL NOT EXCEED 72" WITH OUT STIFFENER AND 144" WITH STIFFENER.
- 2) THE MAXIMUM DESIGN PRESSURE RATING IS ±110PSF
- 3) THIS SYSTEM HAS NOT BEEN TESTED FOR WATER INFILTRATION RESISTANCE AND IS NOT A WATER RESISTANT SYSTEM.
- 4) THE LOUVERS, FRAMES, HARDWARE/FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS AND MAY NOT VARY UNLESS SPECIFICALLY MENTIONED ON THESE DRAWINGS.
- 5) THESE LOUVER ARE TO BE INSTALLED IN A LOCATION WHERE THE ROOM BEHIND THE LOUVERS IS DESIGNED TO DRAIN WATER PENETRATING INTO THE ROOM, AND THE ROOM WILL HOUSE WATER RESISTANT/WATER PROOF EQUIPMENT, COMPONENTS, OR SUPPLIES.

BLADES SHALL BE JOINED TO EACH JAMB FRAME AND VERTICAL STIFFENING MEMBER WITH TWO FILLET WELDS EACH 1" (25.4mm) LONG PRODUCED WITH THE PULSED GAS METAL ARC WELDING PROCESS (GMAW/MIG) WITH A MINIMUM 0.125" (3.18mm) THROAT. FRAMES SHALL BE JOINED AT EACH CORNER WITH FULL-LENGTH GMAW FILLET WELDS WITH A MINIMUM 0.125" (3.18mm) THROAT. MANUFACTURER SHALL SUBMIT THEORETICAL CALCULATIONS PREPARED BY A PROFESSIONAL ENGINEER SPECIALIZING IN THE APPLICATION OF WELDING TECHNOLOGY DEMONSTRATING THAT EACH WELD WILL WITHSTAND A MINIMUM 626 POUNDS OF FORCE IN SHEAR.

LOUVERS SHALL BE FACTORY PRIMED AND FINISHED-AFTER-ASSEMBLY WITH A KYMAR 500 (PVF<sub>2</sub>) RESIN COATING IN A COLOR SELECTED FROM THE MANUFACTURERS STANDARD COLOR CHART.

**FASTENER INDEX**

- F1-#10 x 5/8" long stainless steel indented hex head thread cutting screw, natural mill.
- F8-1/4"-2 1/4" Hilti stainless steel sleeve anchor, 1 1/8" min embed depth.
- F9-1/4"-20 x 3/4" stainless steel thread cutting screw.
- F10-1/4"-20 x 1" lg stainless steel indented hex head thread cutting screw.
- F11-1/4"-20 x 1" lg 410 stainless steel indented hex head thread cutting screw.

**CLIP INDEX**

- C1-1 1/4" x 1 1/2" x 1 1/2" long 0.125 aluminum clip angle, alloy 6105-T5, natural mill.
- C2-1 1/4" x 1 1/2" continuous 0.125 aluminum angle, alloy 6105-T6, natural mill.
- C12-4" x 6" x 5" long 5/16" steel clip angle, primecoat, shipped loose.
- C13-4" x 6" x 12" long 5/16" steel clip angle, primecoat, shipped loose.
- C16-2" x 2" continuous 8 ga aluminum angle, alloy 6061-T5, natural mill.
- C17-1 1/4" x 1 1/2" continuous 8 ga aluminum angle, alloy 6105-T5, natural mill.

**FINISH SCHEDULE**

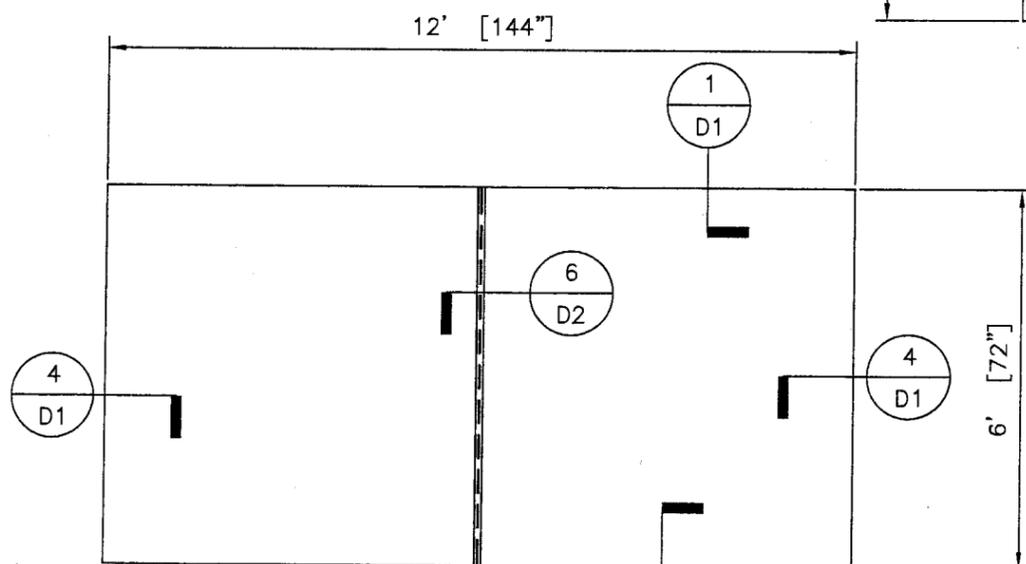
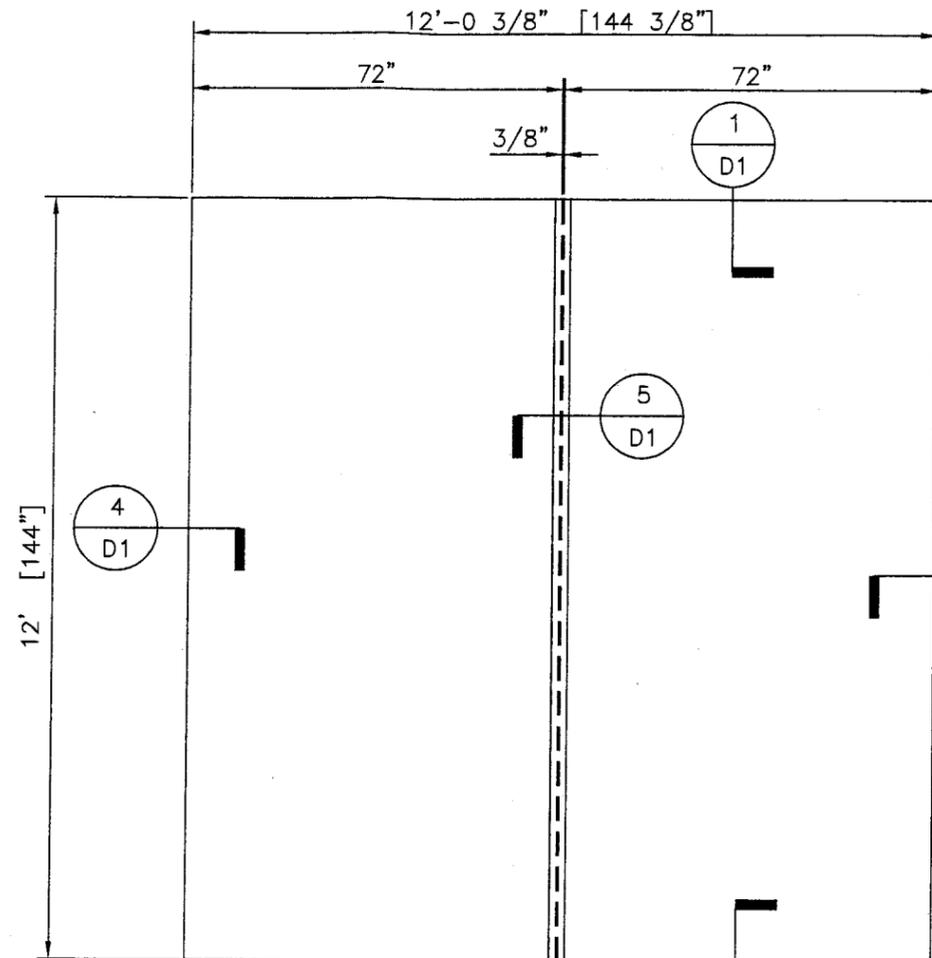
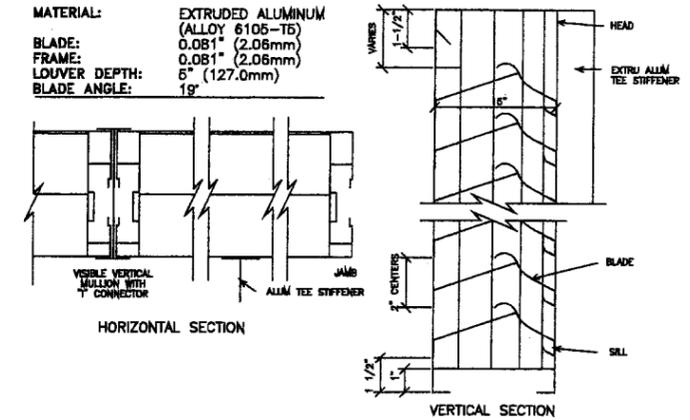
◆ KYMAR 500 (SPECIFY COLOR)

**MISCELLANEOUS INDEX**

- M4-Shims as required, not by Greenheck.
- M10-2" x .087# extruded aluminum "I" beam, alloy 6061-T6, PART# 125430

**MATERIALS**  
**LOUVER TYPE**  
**ESS-501D**  
**SIGHTPROOF BLADE LOUVER**

**MATERIAL:** EXTRUDED ALUMINUM (ALLOY 6105-T6)  
**BLADE:** 0.081" (2.06mm)  
**FRAME:** 0.081" (2.06mm)  
**LOUVER DEPTH:** 5" (127.0mm)  
**BLADE ANGLE:** 19°



1 LOUVER ELEV.  
ITEM SHORT LOUVER LAYOUT

2 LOUVER ELEV.  
ITEM LONG LOUVER LAYOUT

This Certification is limited to the structural design of structural components of this louver system. It does NOT include responsibility for;

- Design of air and water infiltration prevention.
- The manufacture, assembly, or installation of the system.
- Quantities of materials or dimensional accuracy of drawings

**PRODUCT REVISED**  
as complying with the Florida Building Code  
Acceptance No 07-0404.04  
Expiration Date 07/06/2008

By *[Signature]*  
Miami Dade Product Control Division

**PRODUCT RENEWED**  
as complying with the Florida Building Code  
Acceptance No 08-0611.08  
Expiration Date 07/06/2009

By *[Signature]*  
Miami Dade Product Control Division

REVISION OR ISSUE	DESCRIPTION	DATE	BY
12	REVISED DETAIL REFERENCE LOCATION	03/16/07	CWC
11	ADDED DETAILS FOR STUD & TUBE ATTACHMENTS	09/26/06	DMH
10	ADDED VERTICAL LOUVER ELEVATION & DETAILS	03/30/06	DJY
9	ENLARGED PD TEXT & REMOVED PROP. BLOCK	10/13/05	AK
8	ADDED NEW LOGO	8/4/05	BRS
7	ADDED NOTE 5	5/19/03	JDM
6	ADDED REQUESTED NOTES	5-22-00	BDM
5	ADDED REQUESTED NOTES	4-14-00	BDM
4	CLARIFIED DRAWING	04/13/99	JLC
3	CLARIFIED DRAWING	04/07/99	JLC
2	CLARIFIED DRAWING	03/25/99	JLC
1	CLARIFIED DRAWING	02/11/99	JLC



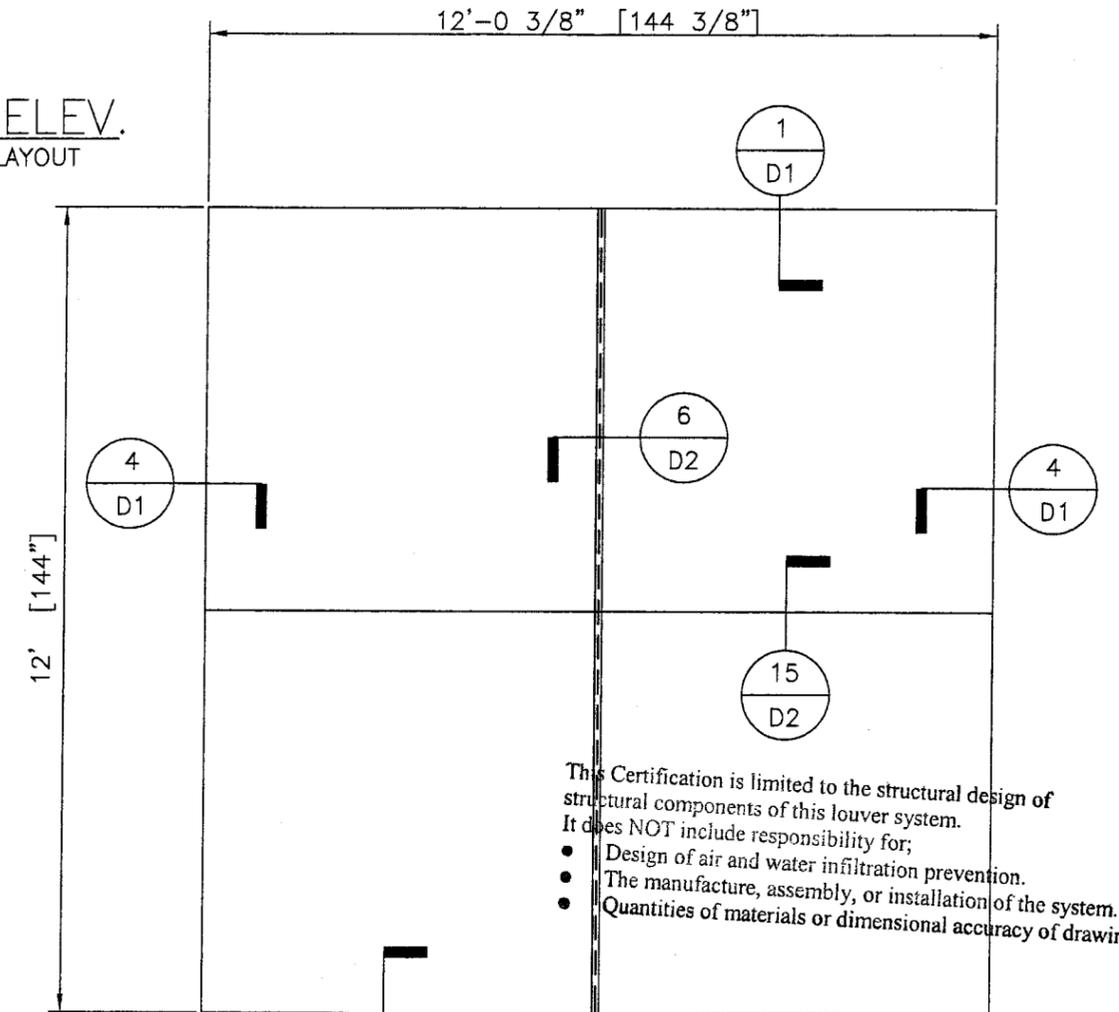
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<b>CUSTOMER PO#:</b>	
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<b>D-SIZE SCALE:</b> NONE	<b>CHK'D BY:</b>
<b>ORDER NO.:</b>	<b>DRAWING NO.:</b> A1
	1 OF 5

L. DAVID RICE

MAR 23 2007

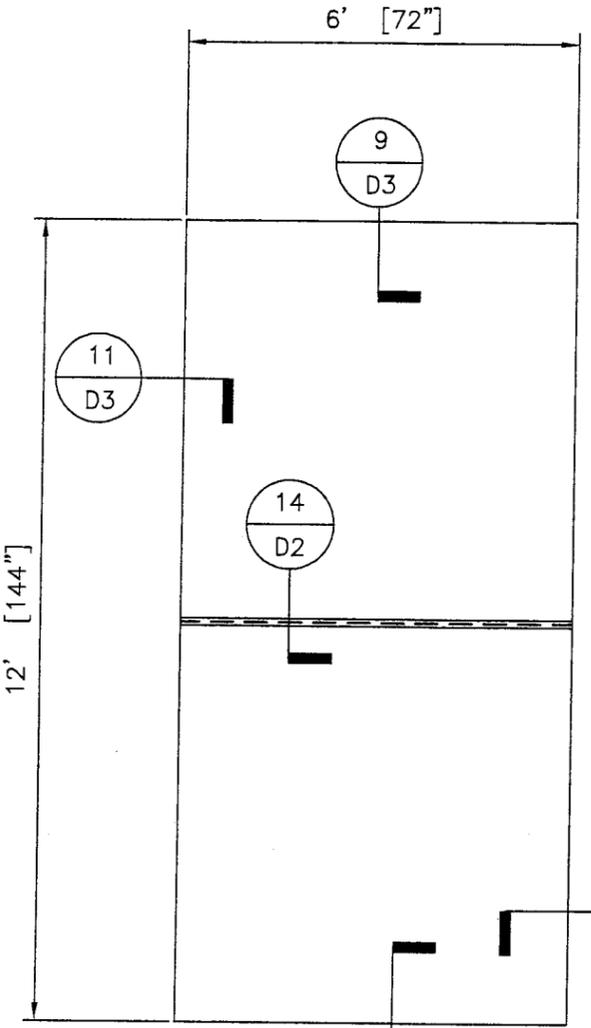
- ABBREVIATIONS**
- LW..... LOUVER WIDTH
  - LH..... LOUVER HEIGHT
  - GH..... GRILLE WIDTH
  - GH..... GRILLE HEIGHT
  - SW..... SECTION WIDTH
  - SH..... SECTION HEIGHT
  - EL..... ELEVATION
  - CL..... COLUMN LINE
  - RD..... ROUGH OPENING

5 LOUVER ELEV.  
ITEM SHORT LOUVER LAYOUT

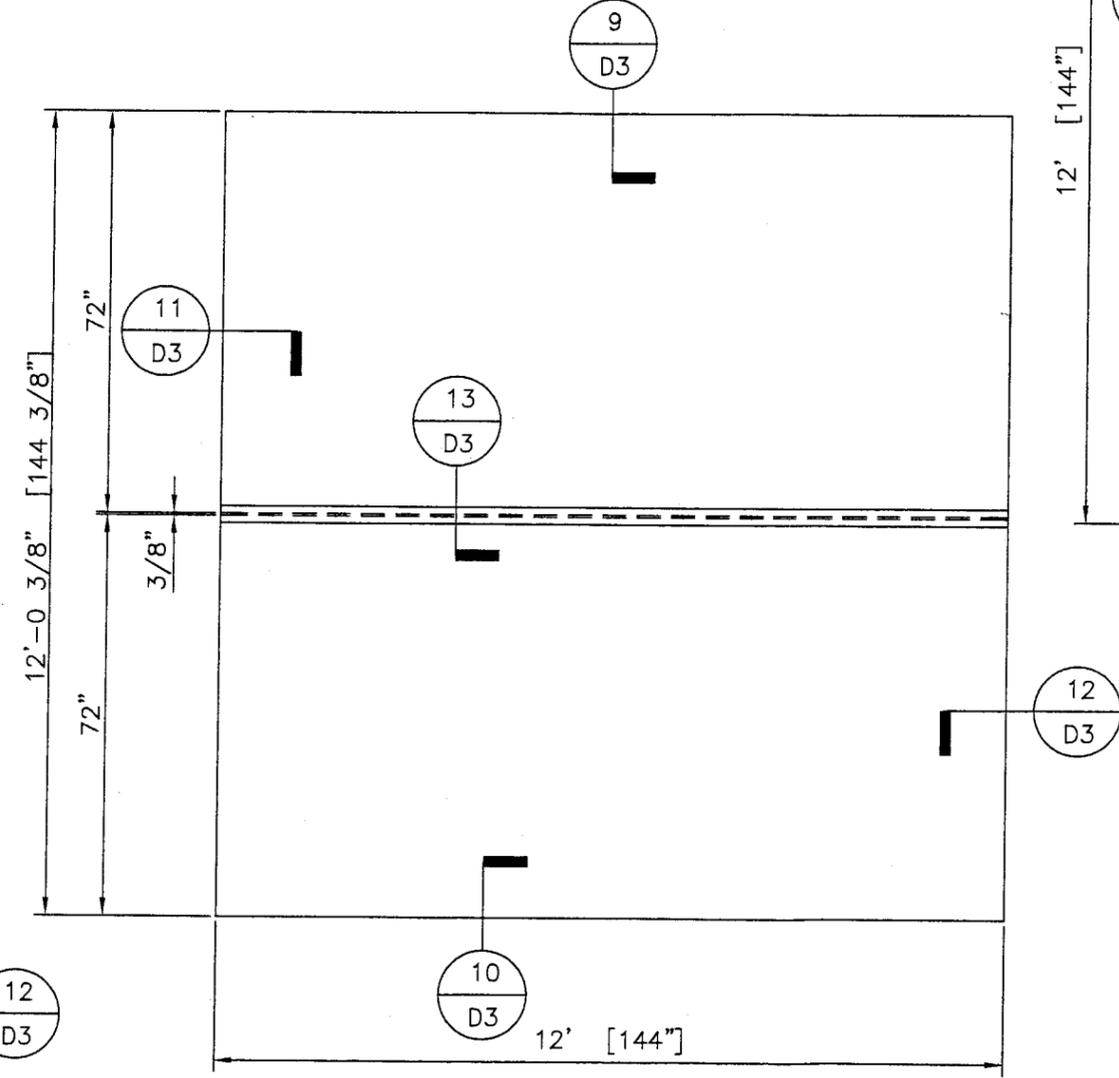


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3 LOUVER ELEV.  
ITEM TALL LOUVER LAYOUT  
VERTICAL BLADES



4 LOUVER ELEV.  
ITEM SHORT LOUVER LAYOUT  
VERTICAL BLADES

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By *[Signature]*  
Miami Dade Product Control Division

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L. DAVID RICE  
MAR 23 2007

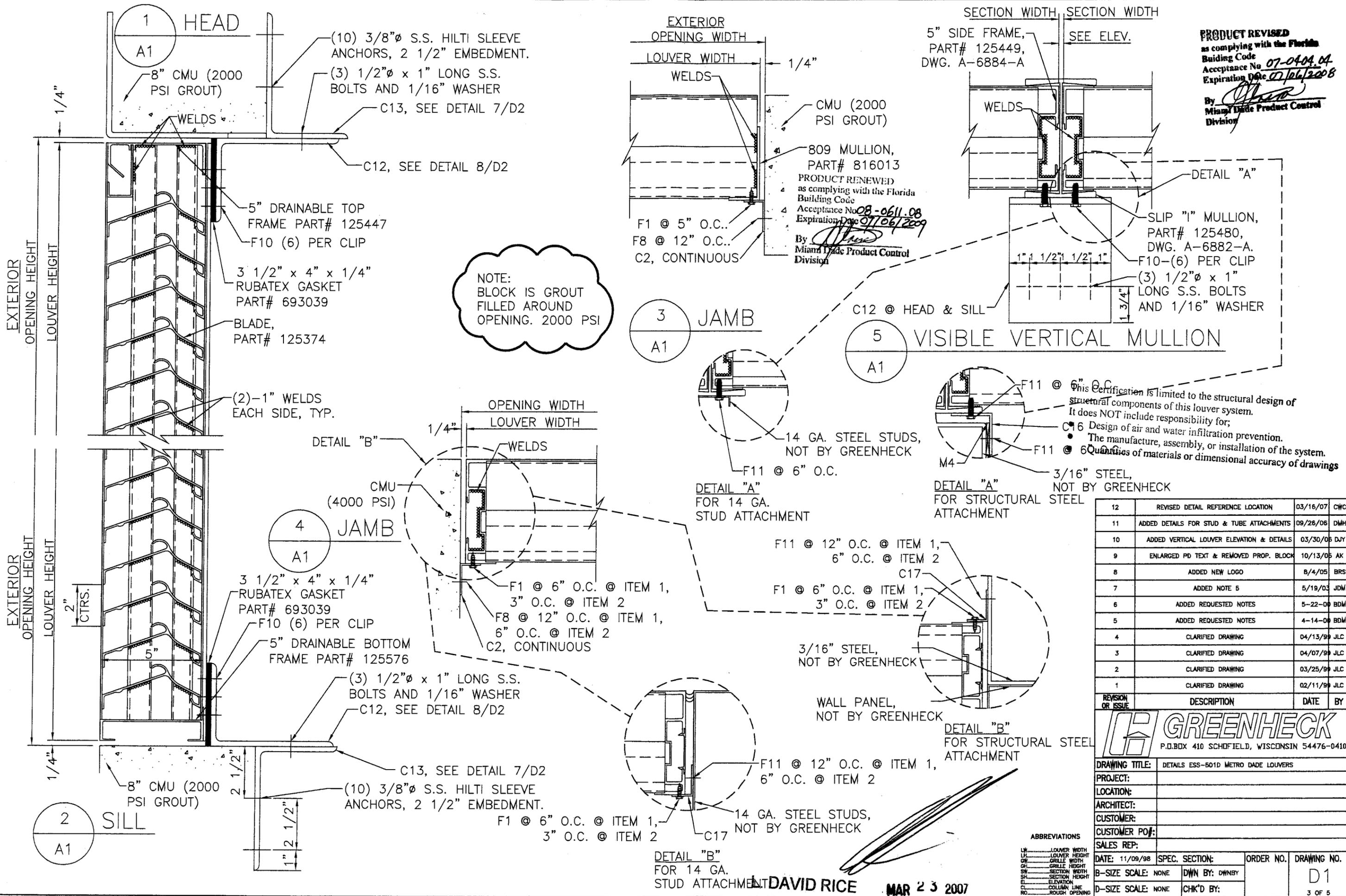
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DRAWING TITLE:	ELEVATIONS ESS-501D METRO DADE LOUVERS		
PROJECT:			
LOCATION:			
ARCHITECT:			
CUSTOMER:			
CUSTOMER PO#:			
SALES REP:			

DATE:	11/09/98	SPEC. SECTION:		ORDER NO.		DRAWING NO.	
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D-SIZE SCALE:	NONE	CHK'D BY:					2 OF 5

- ABBREVIATIONS
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  - EL.....ELEVATION
  - CL.....COLUMN LINE
  - RO.....ROUGH OPENING



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 By *[Signature]*  
 Miami Dade Product Control  
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809 MULLION,  
 PART# 816013  
 PRODUCT RENEWED  
 as complying with the Florida  
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 Miami Dade Product Control  
 Division

NOTE:  
 BLOCK IS GROUT  
 FILLED AROUND  
 OPENING. 2000 PSI

This Certification is limited to the structural design of  
 structural components of this louver system.  
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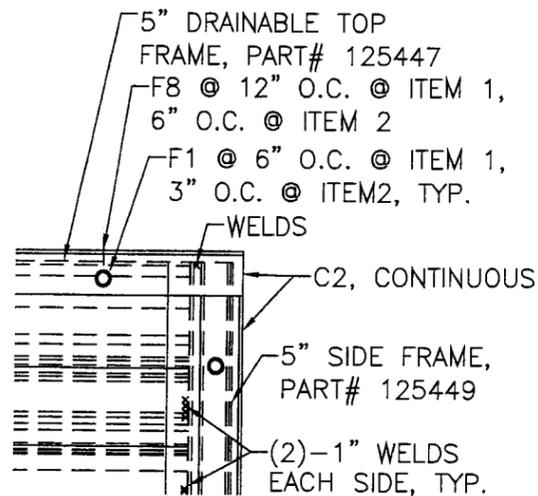
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**GREENHECK**  
 P.O. BOX 410 SCHOFIELD, WISCONSIN 54476-0410

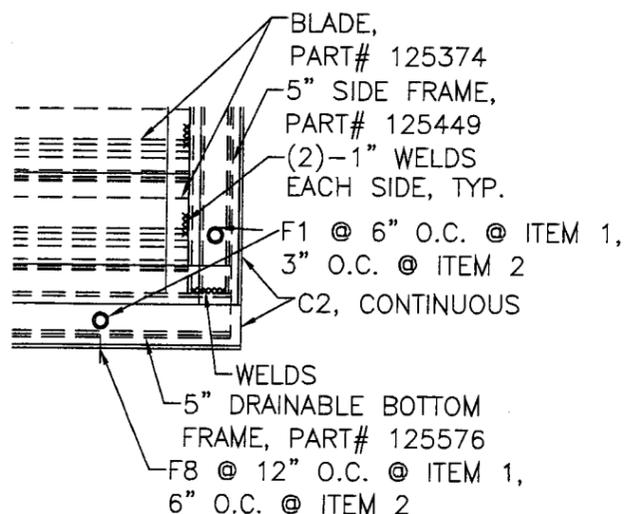
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LOCATION:	
ARCHITECT:	
CUSTOMER:	
CUSTOMER PO#:	
SALES REP:	
DATE: 11/09/98	SPEC. SECTION:
B-SIZE SCALE: NONE	DWN BY: DWHBY
D-SIZE SCALE: NONE	CHK'D BY:
ORDER NO.	DRAWING NO. D1
	3 OF 6

ABBREVIATIONS  
 LW..... LOUVER WIDTH  
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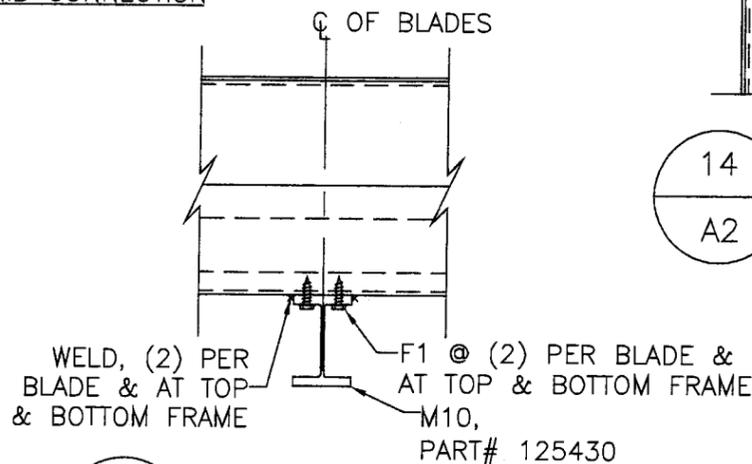
DAVID RICE  
 MAR 23 2007



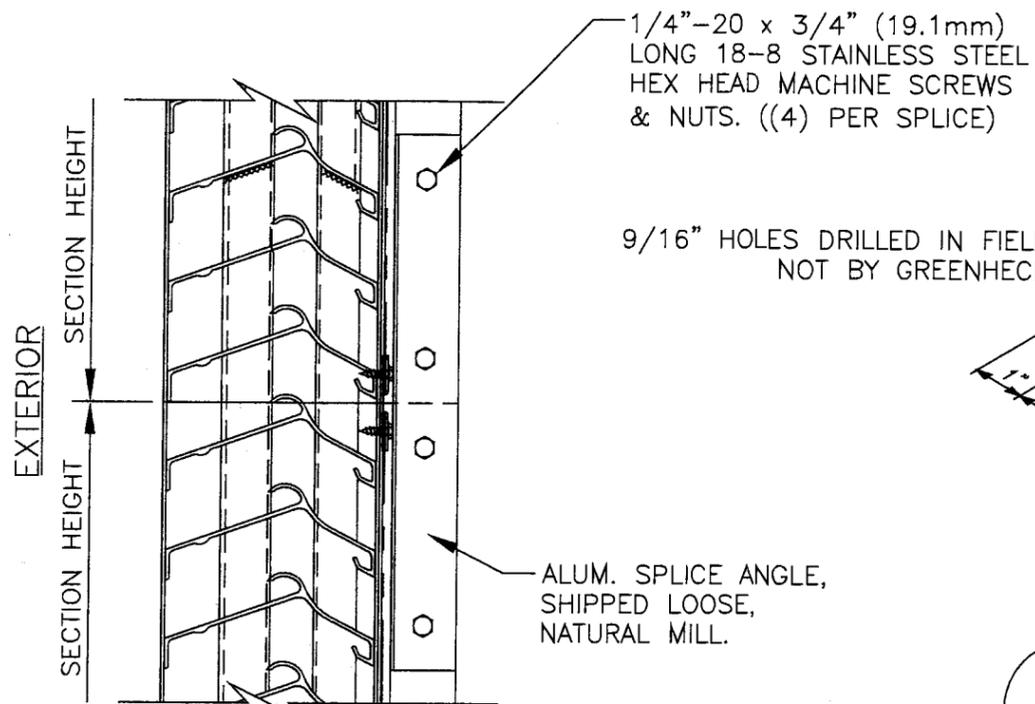
INTERIOR HEAD & JAMB CONNECTION



INTERIOR SILL & JAMB CONNECTION

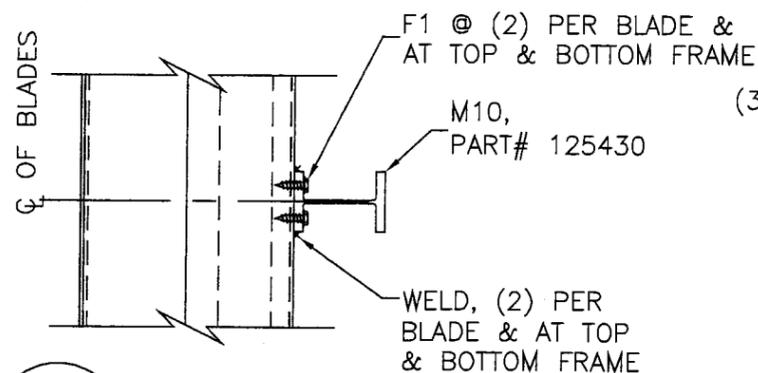


6 TEE STIFFENER  
 A2 HORIZONTAL

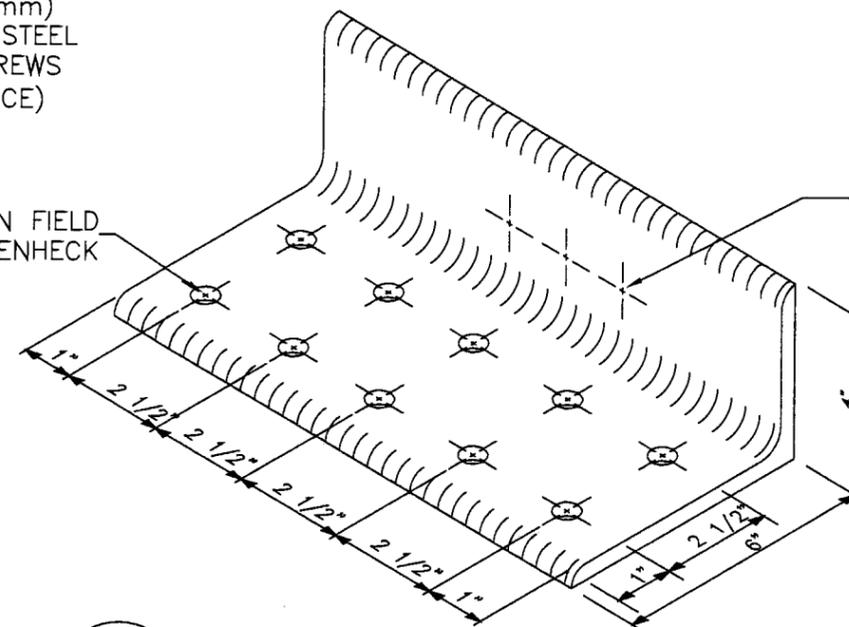


INVISIBLE HORIZONTAL JOINT

15 HORIZONTAL JOINT  
 A2



14 TEE STIFFENER  
 A2 VERTICAL



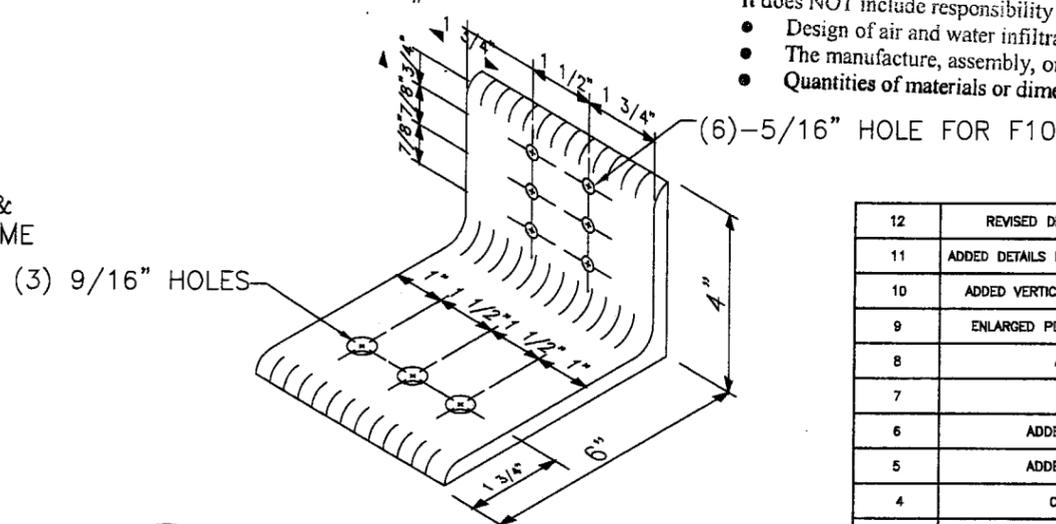
7 C13-ISOMETRIC  
 D1 4" x 6" x 12" LG. 5/16" STEEL ANGLE  
 PRIME COAT, SHIPPED LOOSE  
 PART# 600758

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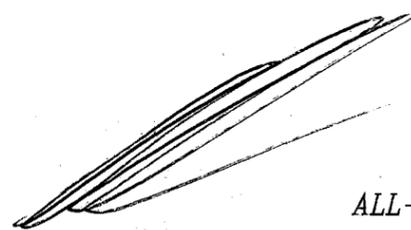
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By *[Signature]*  
 Product Control Division



8 C12-ISOMETRIC  
 D1 4" x 6" x 5" LG. 5/16" STEEL ANGLE  
 PRIME COAT, SHIPPED LOOSE  
 PART# 600757

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L. DAVID RICE

MAR 23 2007

ALL-WELDED ASSEMBLY



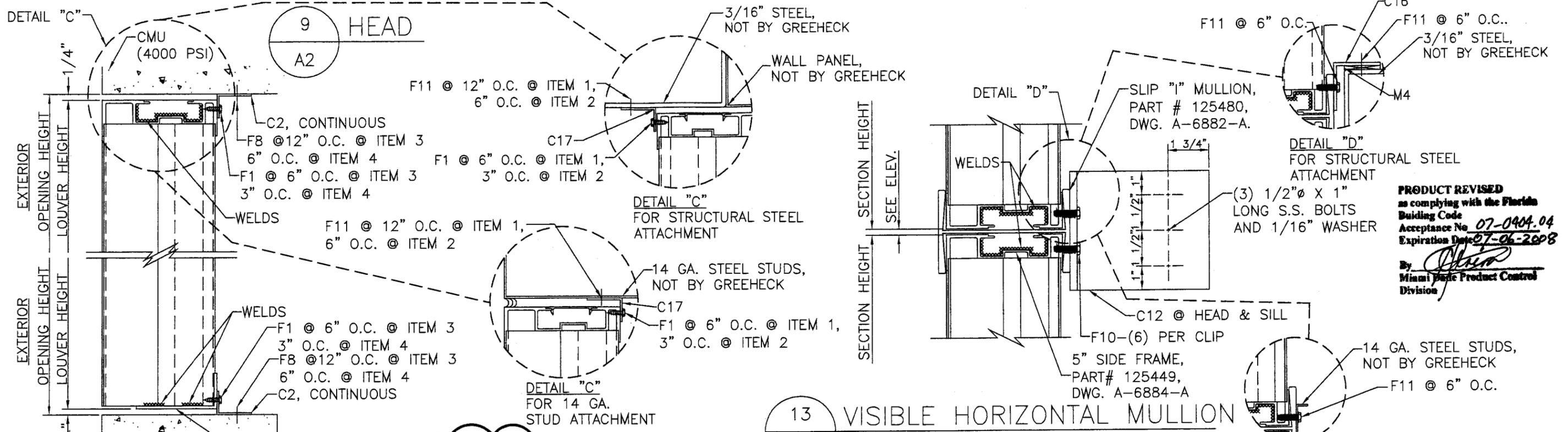
ABBREVIATIONS

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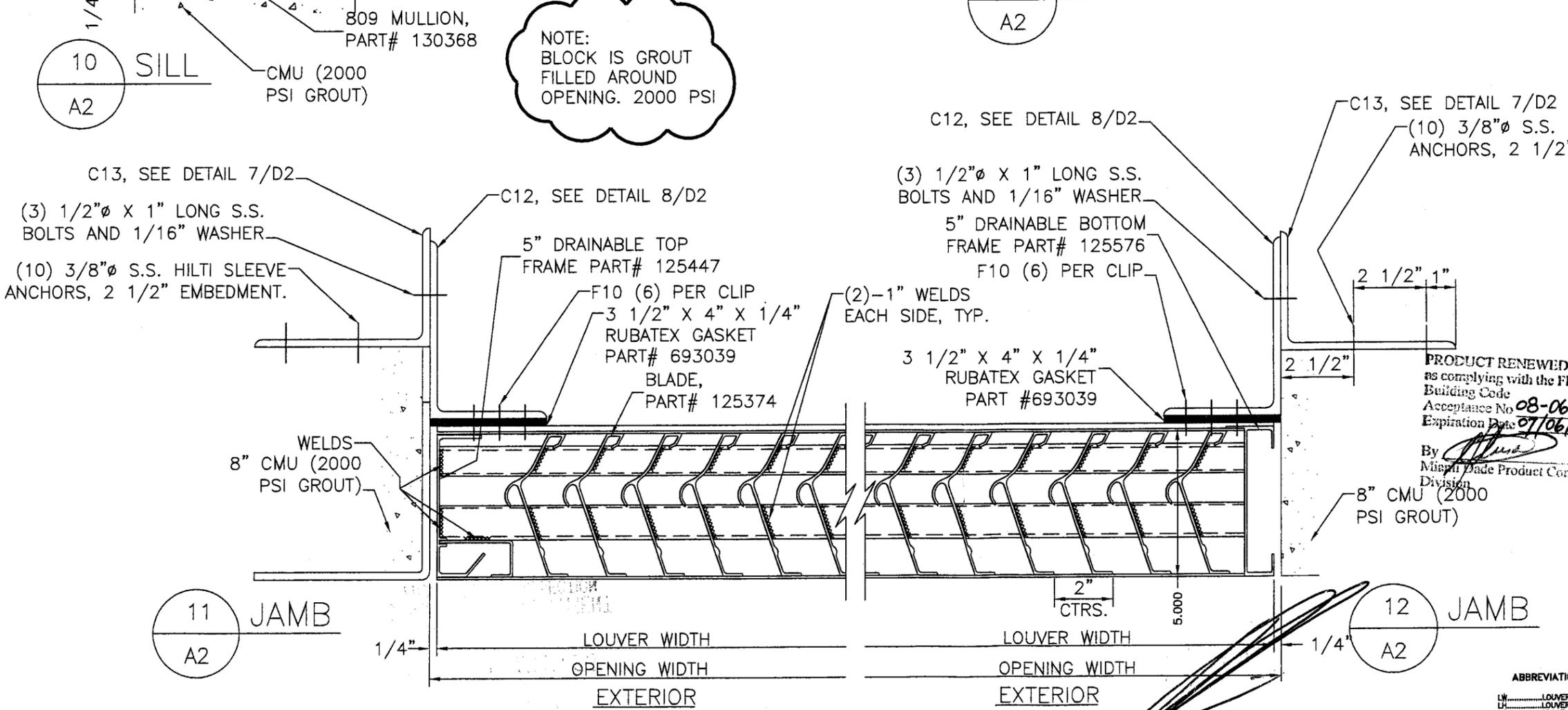
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PROJECT:			
LOCATION:			
ARCHITECT:			
CUSTOMER:			
CUSTOMER PO#:			
SALES REP:			
DATE: 11/09/98	SPEC. SECTION:		
B-SIZE SCALE: NONE	DWN BY: JLC		
D-SIZE SCALE: NONE	CHK'D BY:		



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 structural components of this louver system.  
 It does NOT include responsibility for:  
 • Design of air and water infiltration prevention.  
 • The manufacture, assembly, or installation of the system.  
 • Quantities of materials or dimensional accuracy of drawings



**PRODUCT RENEWED**  
 as complying with the Florida  
 Building Code  
 Acceptance No. 08-0611.08  
 Expiration Date 07/06/2009  
 By: *[Signature]*  
 Miami Dade Product Control  
 Division

REVISION OR ISSUE	DESCRIPTION	DATE	BY
12	REVISED DETAIL REFERENCE LOCATION	03/16/07	DWC
11	ADDED DETAILS FOR STUD & TUBE ATTACHMENTS	09/28/06	DWH
10	ADDED VERTICAL LOUVER ELEVATION & DETAILS	03/30/06	DJY
9	ENLARGED PD TEXT & REMOVED PROP. BLOCK	10/13/05	AK
8	ADDED NEW LOGO	8/4/05	BRS
7	ADDED NOTE 5	5/19/03	JDM
6	ADDED REQUESTED NOTES	5-22-00	BDM
5	ADDED REQUESTED NOTES	4-14-00	BDM
4	CLARIFIED DRAWING	04/13/99	JLC
3	CLARIFIED DRAWING	04/07/99	JLC
2	CLARIFIED DRAWING	03/25/99	JLC
1	CLARIFIED DRAWING	02/11/99	JLC



DRAWING TITLE: DETAILS ESS501D METRO DADE LOUVERS	
PROJECT:	
LOCATION:	
ARCHITECT:	
CUSTOMER:	
CUSTOMER PO#:	
SALES REP:	

ABBREVIATIONS

LW	LOUVER WIDTH
LH	LOUVER HEIGHT
GW	GRILLE WIDTH
GH	GRILLE HEIGHT
SW	SECTION WIDTH
SH	SECTION HEIGHT
EL	ELEVATION
CL	COLUMN LINE
RO	ROUGH OPENING

L. DAVID RICE MAR 23 2007

DATE: 11/19/98 SPEC. SECTION: ORDER NO. DRAWING NO. D3 5 OF 5