



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) 372-6339

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/buildingcode

All-Lite Louver Co. - Division of PCI Industries
5101 Blue Mound Road
Fort Worth, TX 76106

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 ECD-545-MD Aluminum Louver w/ or w/o CD-55 Damper

APPROVAL DOCUMENT: Drawing No. **DC-C1, E-1, D-1 to D-8**, titled "ECD-545-MD Cover Page, Elevation, Details, Sections and Extrusions and Parts Key", sheets 1 through 10 of 10, dated 08/08/06, with Revision 4 dated 01/21/10, prepared by Al-Rice Engineering, signed and sealed by L. David Rice, 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 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 **revises NOA # 08-0528.04** and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**



[Handwritten Signature]
 02/02/10

NOA No. 09-1015.08
Expiration Date: October 9, 2013
Approval Date: February 24, 2010
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **DC-C1, E-1, D-1 to D-8**, titled "ECD-545-MD Cover Page, Elevation, Details, Sections and Extrusions and Parts Key", sheets 1 through 10 of 10, dated 08/08/06, with Revision 4 dated 01/21/10, prepared by Al-Rice Engineering, signed and sealed by L. David Rice, P.E.

B. TESTS

1. Test report on Wind Driven Rain Resistance per FBC TAS 100(A)-95 (modified by Checklist # 0240) along with marked-up drawings and installation diagram of Model ECD-545-MD Fixed Aluminum Louver with a CD-55 Damper, prepared by Architectural Testing, Inc, Test Report No. **92027.01-109-18**, dated 09/09/09, with Revision 1 dated 01/11/10, signed and sealed by Michael D. Stremmel, P.E.

"Submitted under NOA # 08-0528.04"

2. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of Model ECD-545-MD Aluminum Louver, prepared by Hurricane Test Laboratory, LLC, Test Report No. **HTL-0399-0116-07**, dated 02/27/08, signed and sealed by Vinu J. Abraham, P.E.

C. CALCULATIONS

1. CD-55 Damper calculations prepared by Pottorff, dated 09/22/09, signed and sealed by L. David Rice, P.E.
2. Anchor verification calculations prepared by Rice Engineering, dated 08/19/08, signed and sealed by L. David Rice, P.E. ***"Submitted under NOA # 08-0528.04"***

D. QUALITY ASSURANCE

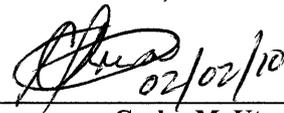
1. Miami Dade Building Code Compliance Office (BCCO)

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS *"Submitted under NOA # 08-0528.04"*

1. Statement letter of code conformance issued Rice Engineering, dated 08/19/08, signed and sealed by L. David Rice, P.E.
2. Statement letter of no financial interest issued Rice Engineering, dated 08/19/08, signed and sealed by L. David Rice, P.E.
3. Laboratory compliance letter for Test Report No. **HTL- 0399-0116-07**, issued by Hurricane Test Laboratory, Inc., dated 02/27/08, signed and sealed by Vinu J. Abraham, P.E.



Carlos M. Utrera, P.E.

Product Control Examiner

NOA No. 09-1015.08

Expiration Date: October 9, 2013

Approval Date: February 24, 2010

INSTALLER MUST READ

A "BOLT" IS DEFINED FOR THIS DISCUSSION AS A THREADED FASTENER DESIGNED SO THAT IT IS INTENDED TO BE USED WITH A NUT. A BOLT IS TIGHTENED BY EXERTING TORQUE ON THE NUT.

THE IDEAL BOLT LENGTH IS ONE IN WHICH ONLY ONE OR TWO THREADS PROJECT FROM THE NUT AFTER IT IS TIGHTENED. ADDITIONAL THREADS MAY PROTRUDE FROM THE NUT, BUT NO LESS THAN ONE COMPLETE THREAD SHOULD BE ALLOWED.

BOLT HOLES MAY HAVE SHARP BURRS OR EDGES AFTER DRILLING. THESE COULD BITE INTO THE FILLET AND INCREASE STRESS CONCENTRATION. THEREFORE, WASHERS ARE ALWAYS USED UNDER THE BOLT HEAD TO PREVENT THIS. THESE WASHERS ARE MADE OF HARDENED STEEL OR STAINLESS STEEL AND THE INSTALLER MUST TAKE CARE TO LOAD THEM ONTO THE BOLT SO THAT THE ROUNDED EDGE OF THE STAMPED HOLE FACES THE WASHER FACE OF THE BOLT.

SIMILARLY, WASHERS ARE USED UNDER EACH NUT.

IF AT ALL POSSIBLE, WHEN TIGHTENING, THE INSTALLER SHOULD HOLD THE BOLT HEAD STATIONARY AND TWIST THE NUT. IN THIS WAY, THE BOLT SHANK WILL NOT FEEL THE THREAD-FRICTION TORQUE.

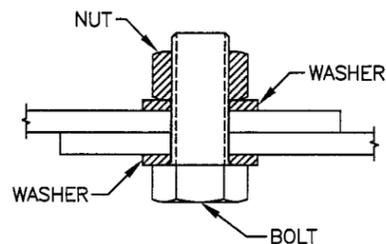
THE MATERIAL OF THE NUT IS CAREFULLY SELECTED TO MATCH THAT OF THE BOLT. TYPICALLY, THE BOLT MATERIAL WILL BE SELECTED TO BE STRONG AND TOUGH, AND THE MATING NUT MATERIAL WILL BE SELECTED TO BE SOFT AND DUCTILE.

SINCE PROPERLY SELECTED NUTS YIELD SLIGHTLY TO PROPERLY DISTRIBUTE THE LOAD OVER THE

THE NUT THREADS SHOW ANY RUB MARKS OR NICKS - DISCARD IT.

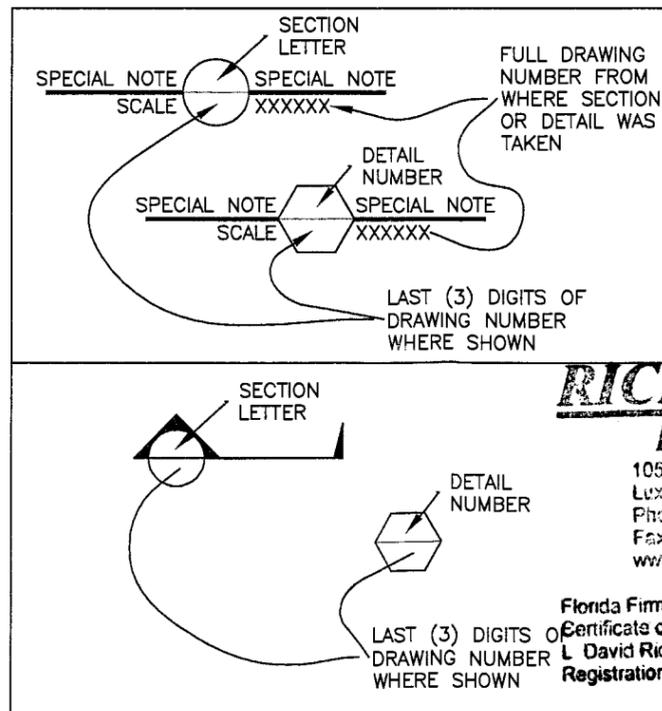
THE INSTALLER IS ALSO RESPONSIBLE FOR PERFORMING A VISUAL INSPECTION OF EACH BOLT HE/SHE IS ABOUT TO INSTALL. BOLTS WITH NICKS, BURRS, AND OTHER THREAD IRREGULARITIES - MUST BE DISCARDED, SINCE THEY ARE LIKELY TO CAUSE STRESS CONCENTRATIONS.

IF PRELOAD TORQUE IS SPECIFIED, THEN THE TORQUE MUST BE CHECKED BY USING A TORQUE WRENCH IN THE FIELD. IF PRELOAD IS NOT PROPERLY INSTALLED AND CHECKED, THEN ALL-LITE LOUVERS ASSUMES NO RESPONSIBILITY FOR THE PERFORMANCE OF THE BOLTS.



PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 09-1015-08
 Expiration Date 10/29/2013
 By *[Signature]*
 Miami Dade Product Control
 Division

SECTION SIZE LIMITS	
MAXIMUM	MINIMUM
WIDTH: 60"	WIDTH: 12"
HEIGHT: 102"	HEIGHT: 12"
MAX DESIGN PRESSURE: ±80 PSF	



RICE
ENGINEERING
 105 School Creek Trail
 Luxemburg, WI 54217
 Phone: 920.345.1042
 Fax: 920.345.1048
 www.rice-inc.com
 Florida Firm No F-01000005061
 Certificate of Authorization: #9090
 L. David Rice
 Registration No: 50923

SECTION AND DETAIL NOTATION

DRAWING NOTES:

- ELEVATIONS ARE VIEWED FROM THE EXTERIOR.
- THE ANALYSIS OF FASTENERS AND ANCHORS IS IDENTIFIED IN SECTION III OF THE STRUCTURAL REPORT.
- THIS NOA DRAWING INCLUDES INSTALLATION DETAILS TO ATTAIN MAXIMUM DESIGN PRESSURES OF 80 PSF AND LARGE MISSILE IMPACT RESISTANCE AS TESTED IN ACCORDANCE TO TAS 201-94, TAS 202-94, AND TAS 203-94. THE INSTALLATION OF A CD-55 DAMPER OPTION YIELDS WATER INGRESS PROTECTION AS TESTED IN ACCORDANCE WITH TAS 100(A)-95.
- IT IS ASSUMED THAT THE LOUVER SYSTEMS DO NOT SUPPORT ANY LOADS TRANSFERRED FROM THE BUILDING CONDITION.
- IT IS ASSUMED THAT THE BUILDING CONDITIONS ARE ADEQUATELY DESIGNED TO SUPPORT LOADS IMPARTED BY THE LOUVER SYSTEM.
- INSTALLER TO PROVIDE GASKET MATERIAL BETWEEN DISSIMILAR MATERIALS IN ORDER TO PROTECT FROM CORROSION.
- WATER PENETRATION:
 - CRITICAL EQUIPMENT TO BE PROTECTED FROM MOISTURE INGRESS WHEN LOUVERS ARE UTILIZED WITHOUT THE CD-55 DAMPER OPTION.
 - CRITICAL EQUIPMENT DOES NOT NEED TO BE PROTECTED FROM MOISTURE INGRESS WHEN LOUVERS ARE UTILIZED WITH THE CD-55 DAMPER OPTION AND THEY ARE CLOSED.
- THE CD-55 MAY BE OPERATED BY MANUAL QUADRANT OR BY ELECTRIC OR PNEUMATIC ACTUATOR. THE DAMPER ACTUATOR IS NOT PART OF THIS APPROVAL.
- OTHER BUILDING CONDITIONS THAN THOSE DENOTED CAN BE UTILIZED IF ANALYZED AND APPROVED BY A PROFESSIONAL ENGINEER. *DAVID RICE*
- MULTI-SECTION WIDE AND HIGH LOUVER SYSTEMS ARE ALLOWABLE PROVIDED THE INDIVIDUAL SECTIONS ARE SUPPORTED PER THE DETAILS ON THIS DRAWING AND A SUITABLE SUPPORT STRUCTURE IS ANALYZED AND APPROVED BY A PROFESSIONAL ENGINEER.

FILE:

REV. NO.	DESCRIPTION	DATE	DRAWN BY
4	FASTENER SPACING PER MIAMI DADE	1/21/10	TB
3	UPDATED WITH CD-55 DAMPER OPTION	9/1/09	DNG
2	CHANGED 48" O.C. TO 34" O.C.	7/29/08	DNG
1	CHANGED 60" O.C. TO 48" O.C.	01/09/08	DNG



5101 BLUE MOUND ROAD
 FORT WORTH, TEXAS 76106
 E-mail: all-lite@alllite-louvers.com
 Web Address: www.alllite-louvers.com
 Phone: 817-831-7038 Fax: 817-831-3110

DRAWING DESC.: COVER PAGE

PROJECT: ECD-545-MD

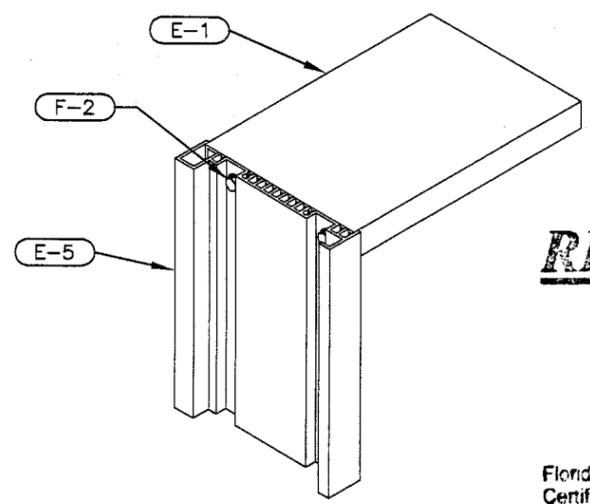
LOCATION:

ARCHITECT:

CUSTOMER:

DATE: 8-8-06	DWN BY: DNICH	A.L.C. ORDER NO.	CUSTOMER P.O. NO.	DRAWING NO. DC-C1
SCALE: NONE	SHEET: 1 of 10			

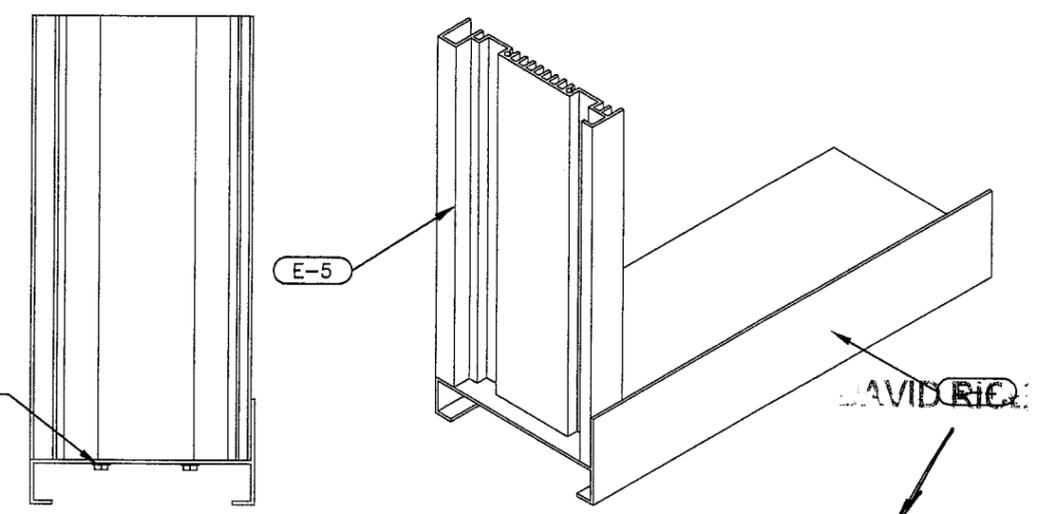
JAN 22 2010



RICE
ENGINEERING
 105 School Creek Trail
 Luxemburg, WI 54217
 Phone: 920.845.1042
 Fax: 920.845.1048
 www.rice-inc.com

Florida Firm No: F-01000005061
 Certificate of Authorization: #9090
 L. David Rice
 Registration No: 50923

LOUVER CORNER DETAIL (TYP BOTH ENDS) 1 JAMB TOP, HEAD, AND DRIP CONNECTION
 3"=1' E1 E1

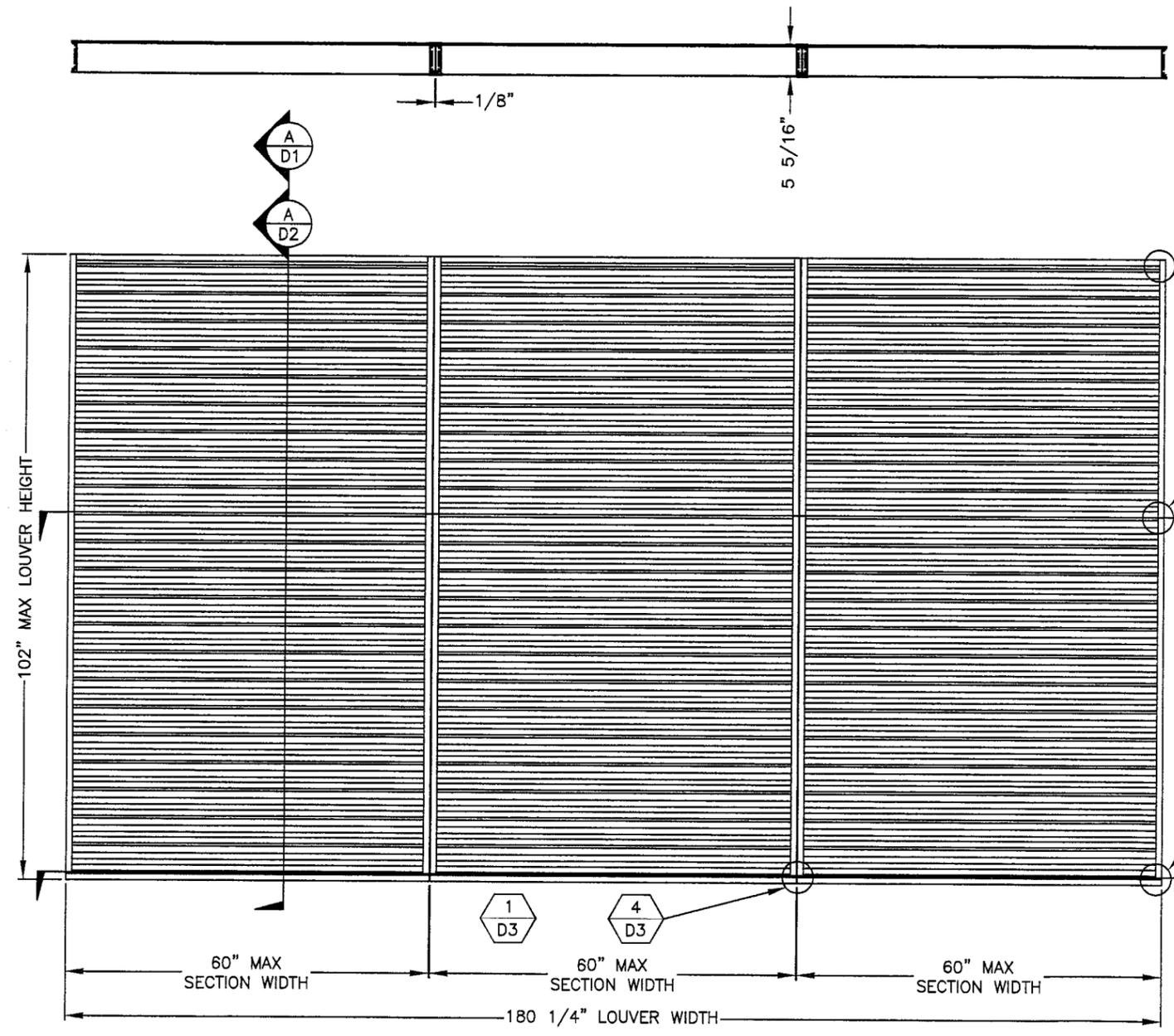


LOUVER CORNER DETAIL (TYP BOTH ENDS) 2 JAMB BOTTOM AND SILL CONNECTION
 3"=1' E1 E1

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 07-1015-08
 Expiration Date 10/07/2013
 By *[Signature]*
 Miami Dade Product Control
 Division

[Signature]
 JAN 2 2 2010

NOTE: A LOUVERED OPENING MAY
 BE UNLIMITED IN WIDTH, BEING
 MADE UP OF MULTIPLE SECTIONS,
 PROVIDED THAT EACH SECTION
 DOES NOT EXCEED 60" IN WIDTH
 AND 102" IN HEIGHT.



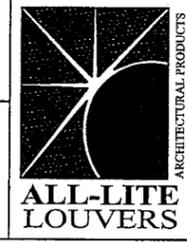
EXTERIOR ELEVATION

SCALE: 1/2"=1'

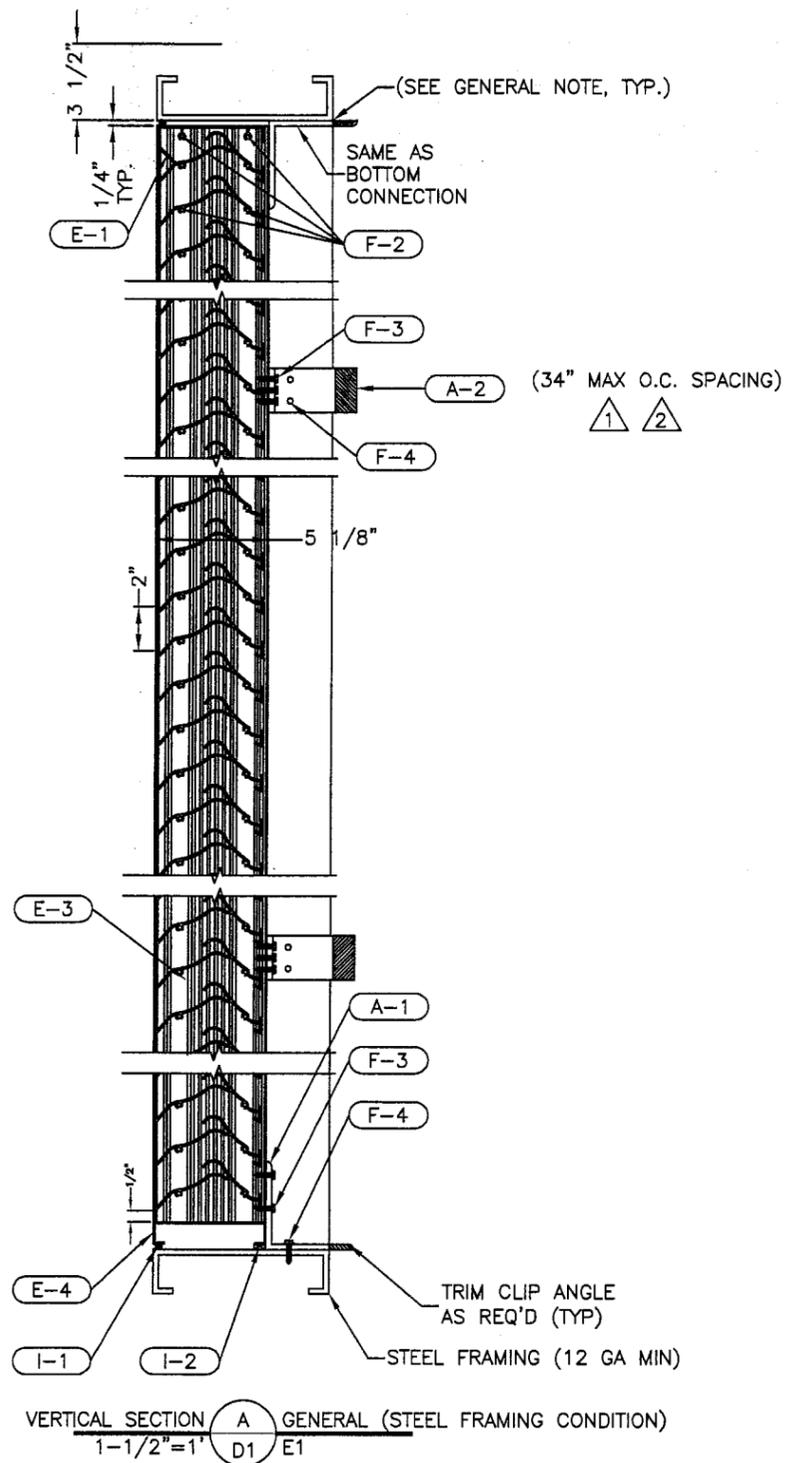
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REV. NO.	DESCRIPTION	DATE	DRAWN BY
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3	UPDATED WITH CD-55 DAMPER OPTION	9/1/09	DNG
2	CHANGED 48" O.C. TO 34" O.C.	7/29/08	DNG
1	CHANGED 60" O.C. TO 48" O.C.	01/09/08	DNG

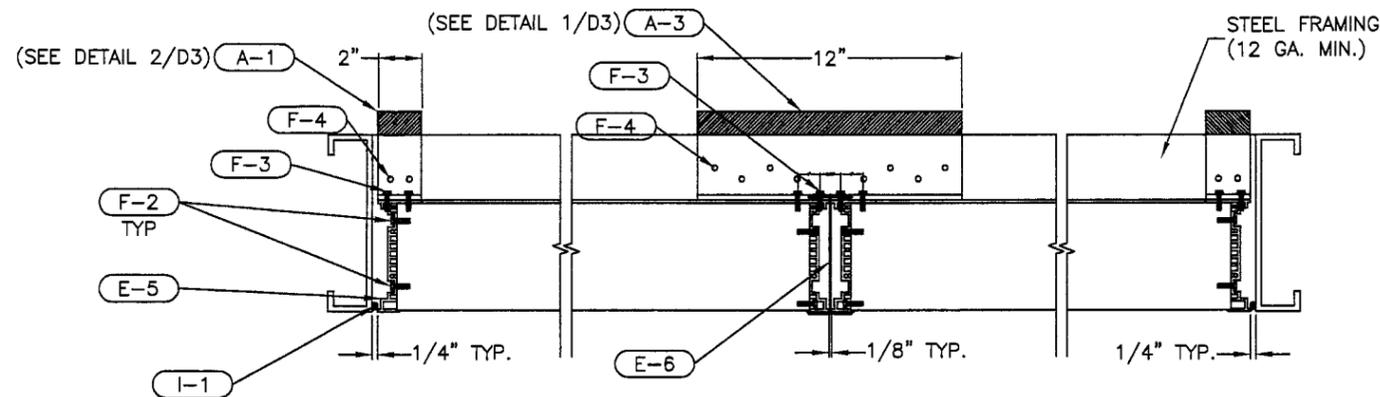
5101 BLUE MOUND ROAD
 FORT WORTH, TEXAS 76106
 E-mail: all-lite@alllite-louvers.com
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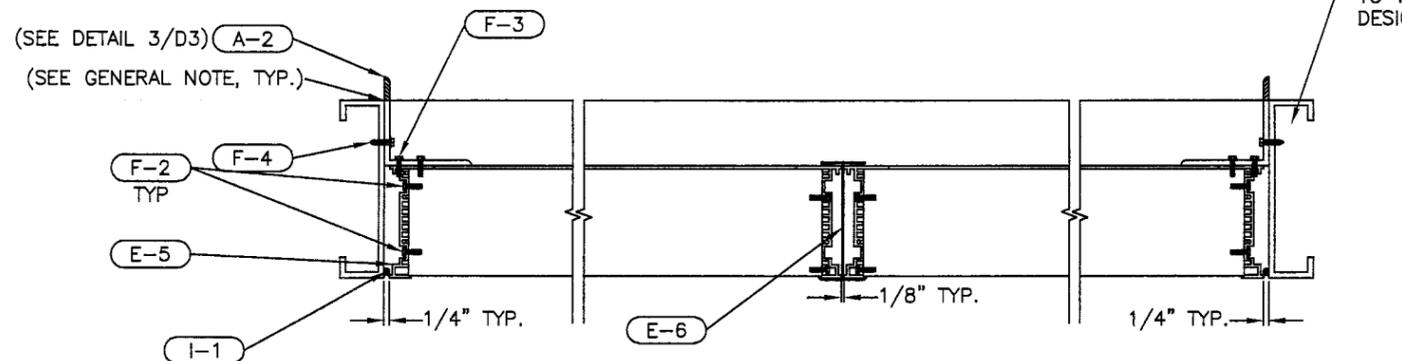
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LOCATION:				
ARCHITECT:				
CUSTOMER:				
DATE: 8-8-06	DWN BY: DNICH	A.L.C. ORDER NO.	CUSTOMER P.O. NO.	DRAWING NO.
SCALE: NOTED	SHEET: 2 of 10			DC-E1



VERTICAL SECTION **A** GENERAL (STEEL FRAMING CONDITION)
1-1/2"=1" D1 E1



PLAN VIEW - HORIZONTAL SECTION **B** GENERAL (STEEL FRAMING CONDITION)
1-1/2"=1" D1 E1



INTERMEDIATE JAMB CLIPS - HORIZONTAL SECTION **C** GENERAL (STEEL FRAMING CONDITION)
1-1/2"=1" D1 E1 (BOTTOM CLIP ANGLES REMOVED FOR CLARITY)

RICE
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Florida Firm No: F-0100005081
Certificate of Authorization: #9080
L. David Rice
Registration No: 50923

STEEL FRAMING SUPPORTED
BY APPROPRIATE STRUCTURE
TO WITHSTAND 80 PSF
DESIGN LOAD.

DAVID RICE

GENERAL NOTE:
INSTALLER TO PROVIDE GASKET MATERIAL BETWEEN DISSIMILAR MATERIALS FOR SEPARATION.

PRODUCT REVISED
as complying with the Florida
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Miami Dade Product Control
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JAN 22 2010

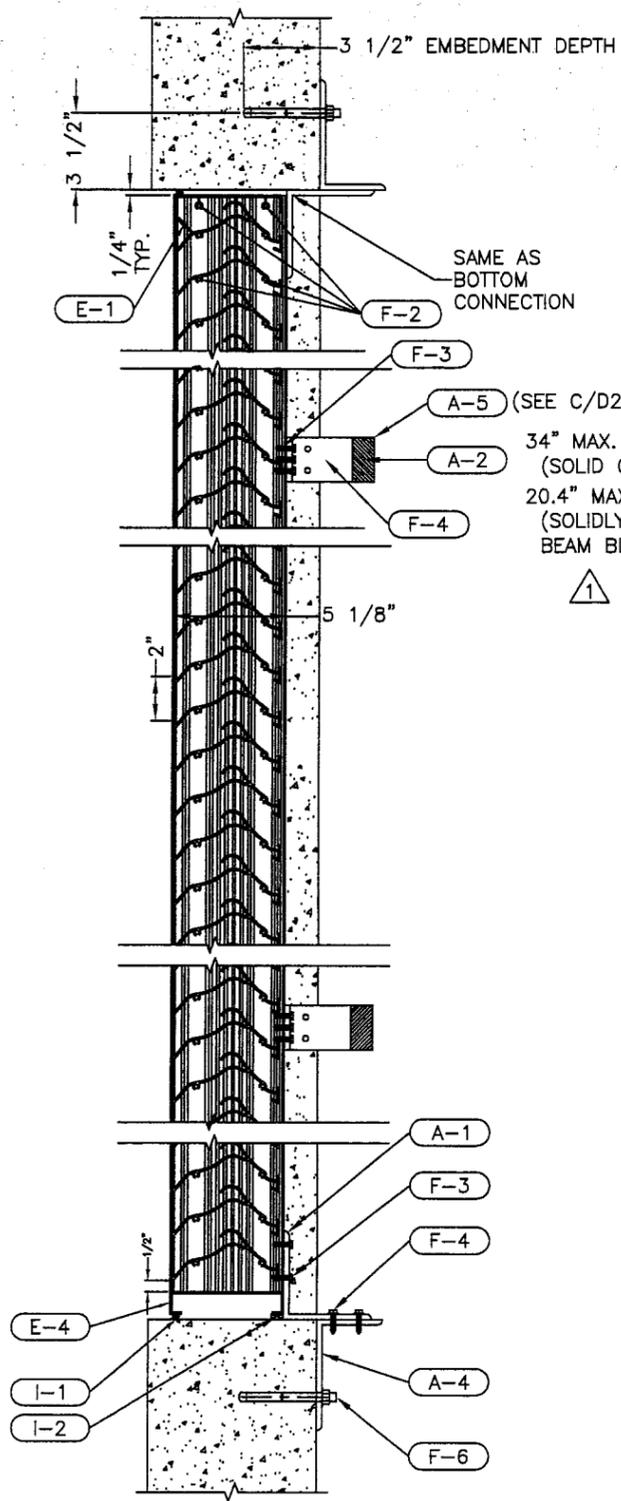
REV. NO.	DESCRIPTION	DATE	DRAWN BY
4	FASTENER SPACING PER MIAMI DADE	1/21/10	TB
3	UPDATED WITH CD-55 DAMPER OPTION	9/1/09	DNG
2	CHANGED 48" O.C. TO 34" O.C.	7/29/08	DNG
1	CHANGED 60" O.C. TO 48" O.C.	01/09/08	DNG

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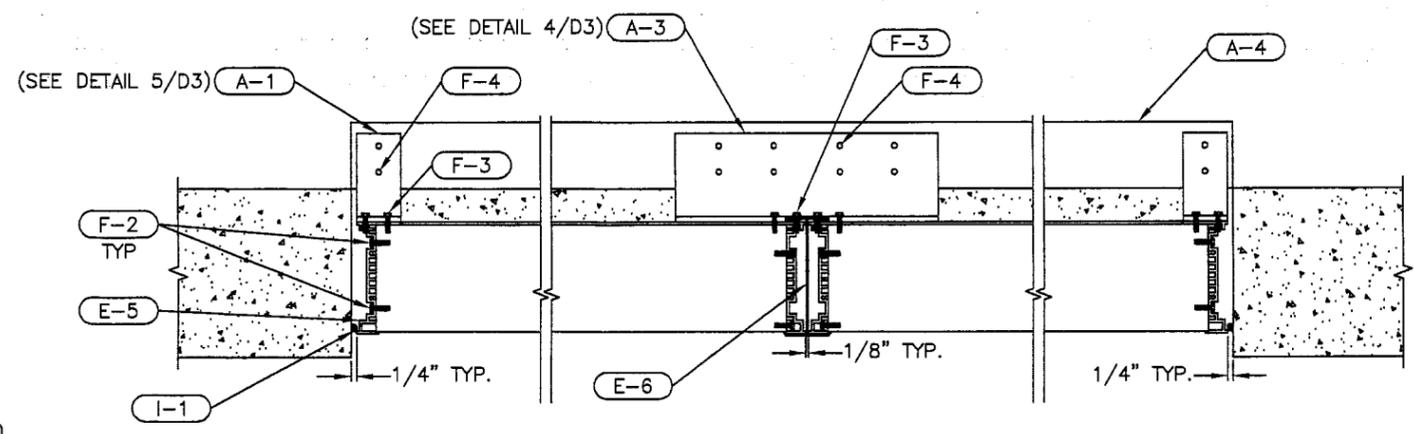
5101 BLUE MOUND ROAD
FORT WORTH, TEXAS 76106
E-mail: all-lite@alllite-louvers.com
Web Address: www.alllite-louvers.com
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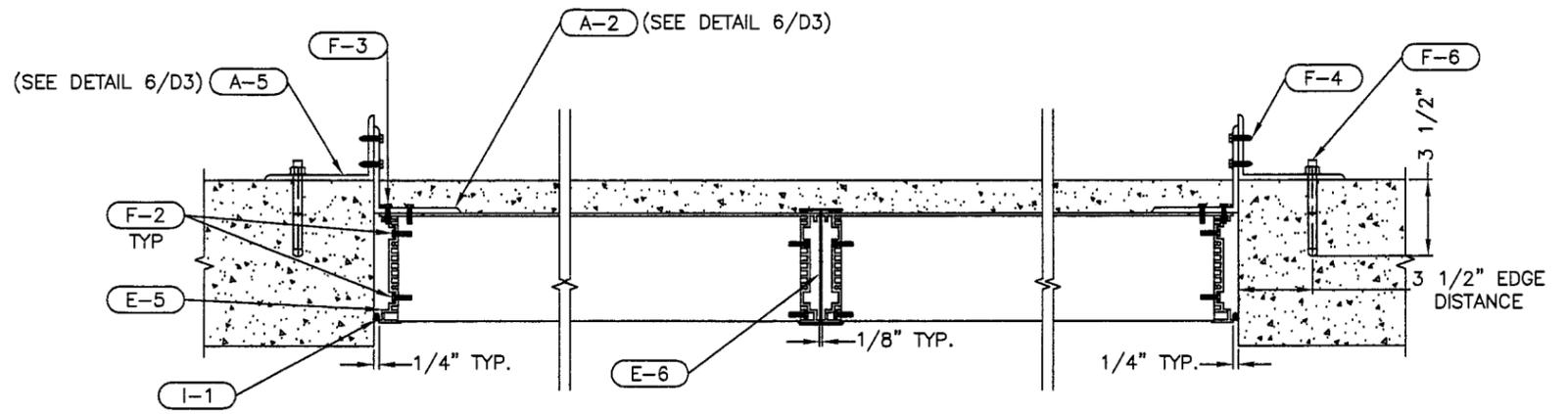
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PROJECT: ECD-545-MD				
LOCATION:				
ARCHITECT:				
CUSTOMER:				
DATE: 8-8-06	DWN BY: DNICH	A.L.C. ORDER NO.	CUSTOMER P.O. NO.	DRAWING NO. DC-D1
SCALE: NOTED	SHEET: 3 of 10			



VERTICAL SECTION **A** GENERAL [SEE NOTE 1]
1-1/2"=1" D2 E1



PLAN VIEW - HORIZONTAL SECTION **B** GENERAL [SEE NOTE 1]
1-1/2"=1" D2 E1



INTERMEDIATE JAMB CLIPS - HORIZONTAL SECTION **C** GENERAL [SEE NOTE 1]
1-1/2"=1" D2 E1 (BOTTOM CLIP ANGLES AND SHELF ANGLE REMOVED FOR CLARITY)

CONDITION NOTE:
1: THIS CONDITION MAY BE ONE OF THE FOLLOWING:
A: 8" SOLIDLY GROUTED BOND BEAM BLOCKS - REINFORCED (GROUT STRENGTH 2000 PSI)
B: SOLID CONCRETE (4000 PSI)
1. PRE-CAST CONCRETE
2. CAST-IN-PLACE CONCRETE

GENERAL NOTE:
INSTALLER TO PROVIDE GASKET MATERIAL BETWEEN DISSIMILAR MATERIALS FOR SEPARATION.

DAVID RICE

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Florida Firm No. F-01000005061
Certificate of Authorization: #9060
L. David Rice
Registration No. 50923

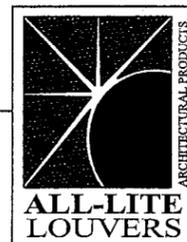
PRODUCT REVISED
is complying with the Florida
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Expiration Date 10/09/2013
By *[Signature]*
Miami Dade Product Control
Division

[Signature]
JAN 22 2010

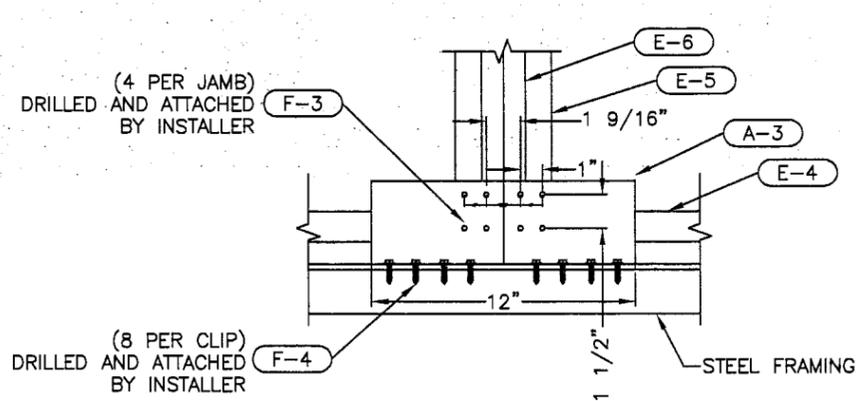
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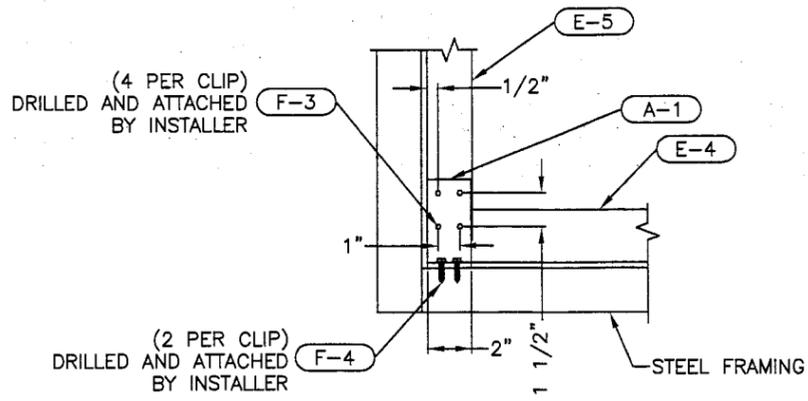
5101 BLUE MOUND ROAD
FORT WORTH, TEXAS 76106
E-mail: all-lite@alllite-louvers.com
Web Address: www.alllite-louvers.com
Phone: 817-831-7038 Fax: 817-831-3110



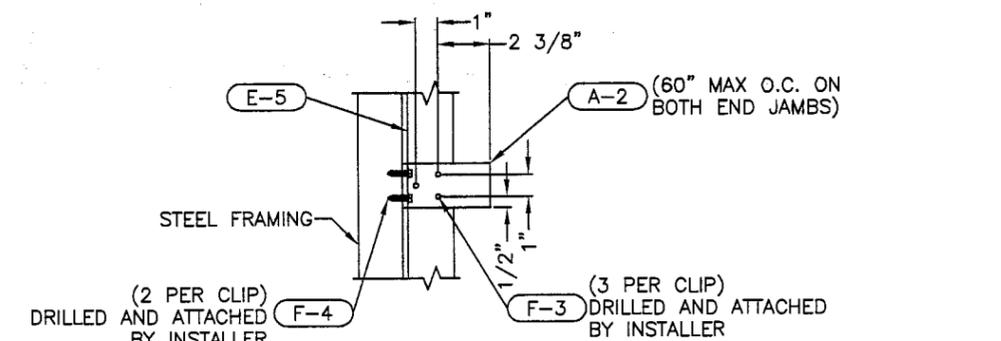
DRAWING DESC.: DETAILS / SECTIONS			
PROJECT: ECD-545-MD			
LOCATION:			
ARCHITECT:			
CUSTOMER:			
DATE: 8-8-06	DWN BY: DNICH	A.L.C. ORDER NO.	CUSTOMER P.O. NO.
SCALE: NOTED	SHEET: 4 of 10		DRAWING NO. DC-D2



REAR MULLION ELEVATION 1 CLIP ANGLE ATTACHMENT @ MULLION (TYP)
1-1/2"=1' D3 E1



REAR CORNER ELEVATION 2 CLIP ANGLE ATTACHMENT @ CORNER (TYP)
1-1/2"=1' D3 E1

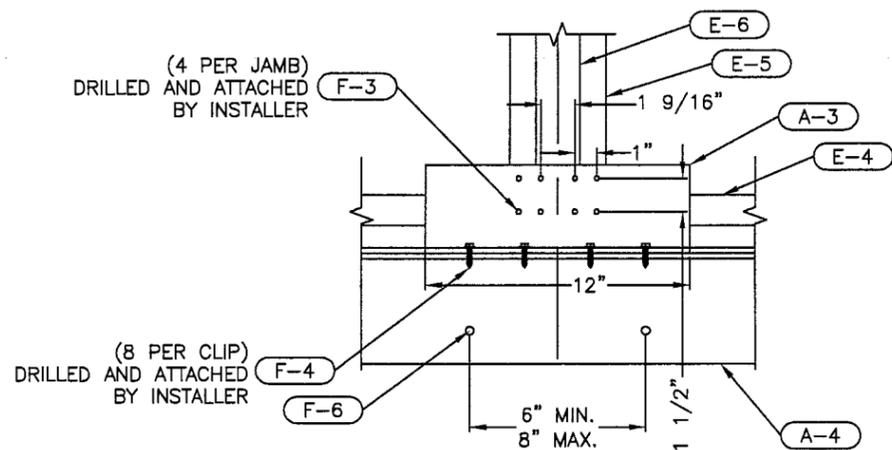


REAR INTERMEDIATE JAMB ELEVATION 3 CLIP ANGLE ATTACHMENT @ INTERMEDIATE LOCATION
1-1/2"=1' D3 E1

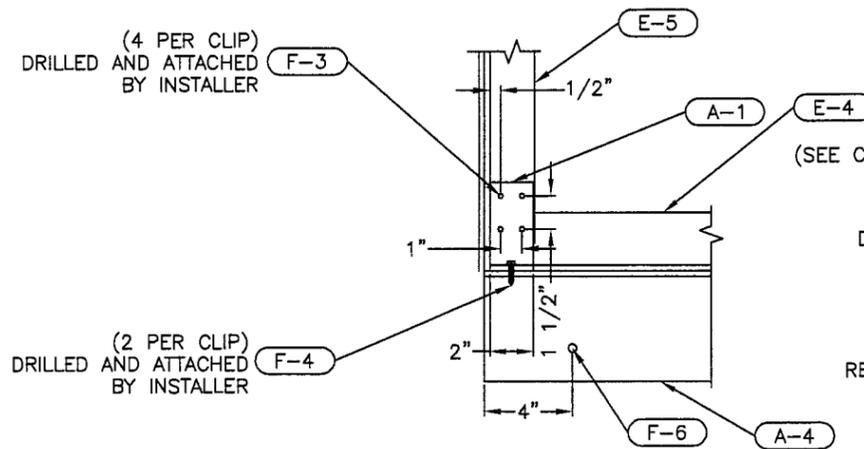
OPPOSITE CORNER MIRRORED HOLE PATTERN

DETAILS FOR STEEL CONDITION

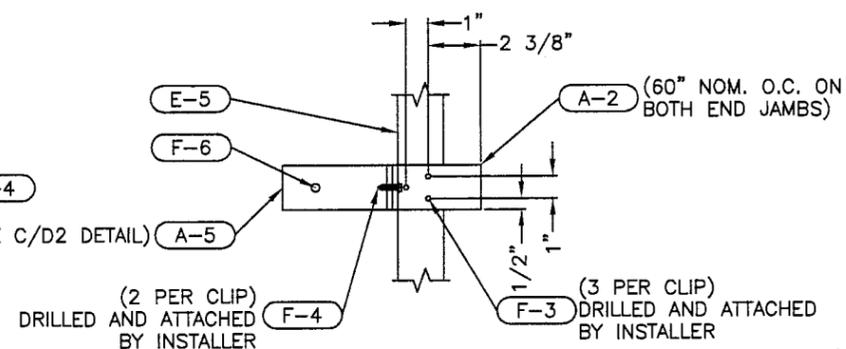
DETAILS FOR CONCRETE / REINFORCED BLOCK CONDITION



REAR MULLION ELEVATION 4 CLIP ANGLE ATTACHMENT @ MULLION (TYP)
1-1/2"=1' D3 E1



REAR CORNER ELEVATION 5 CLIP ANGLE ATTACHMENT @ CORNER (TYP)
1-1/2"=1' D3 E1



REAR INTERMEDIATE JAMB ELEVATION 6 CLIP ANGLE ATTACHMENT @ INTERMEDIATE LOCATION
1-1/2"=1' D3 E1

DAVID RICE

RICE
ENGINEERING

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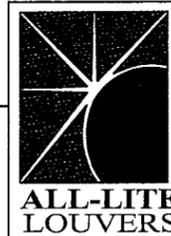
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By *[Signature]*
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Division

[Signature]
JAN 22 2010

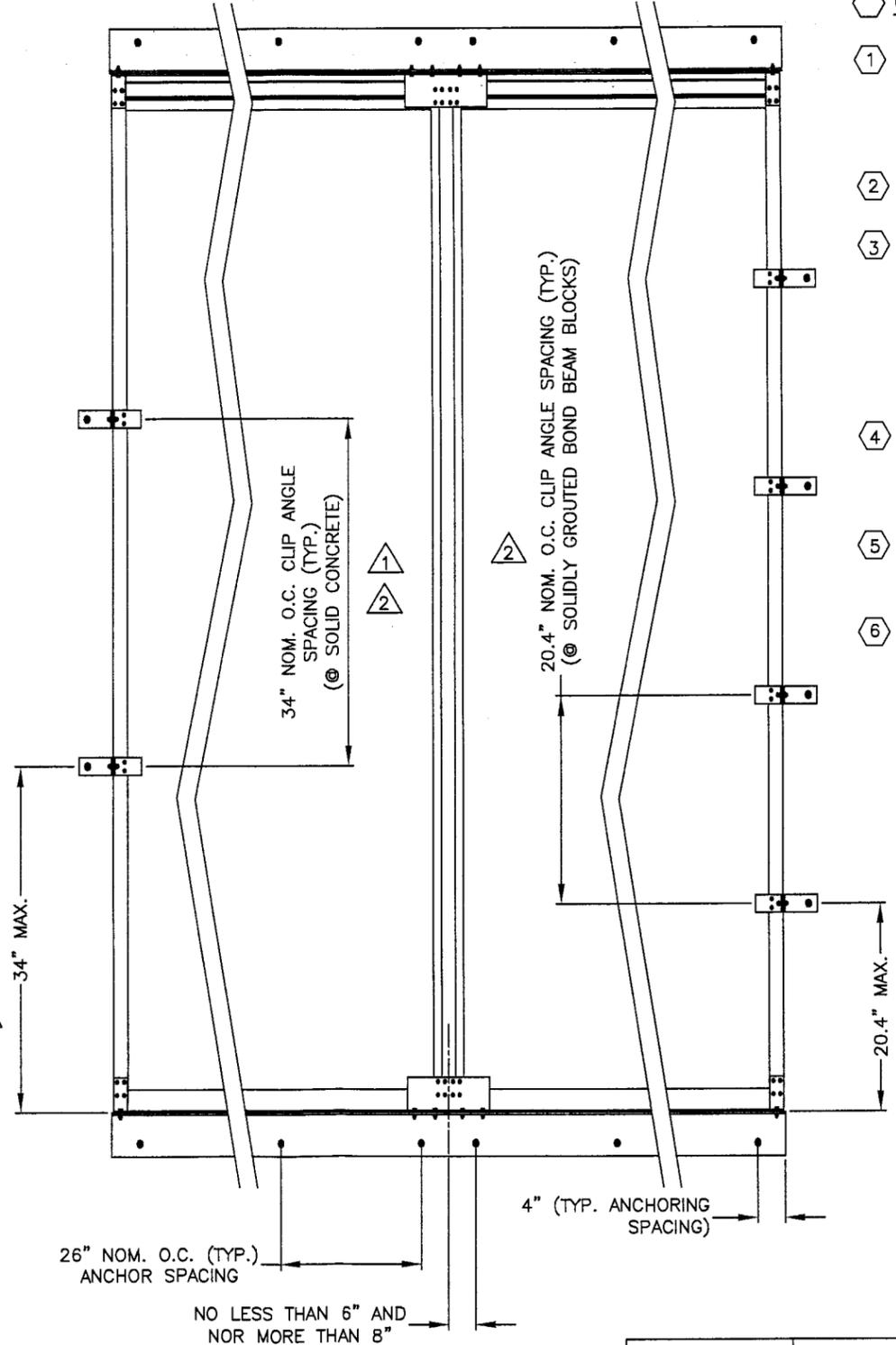
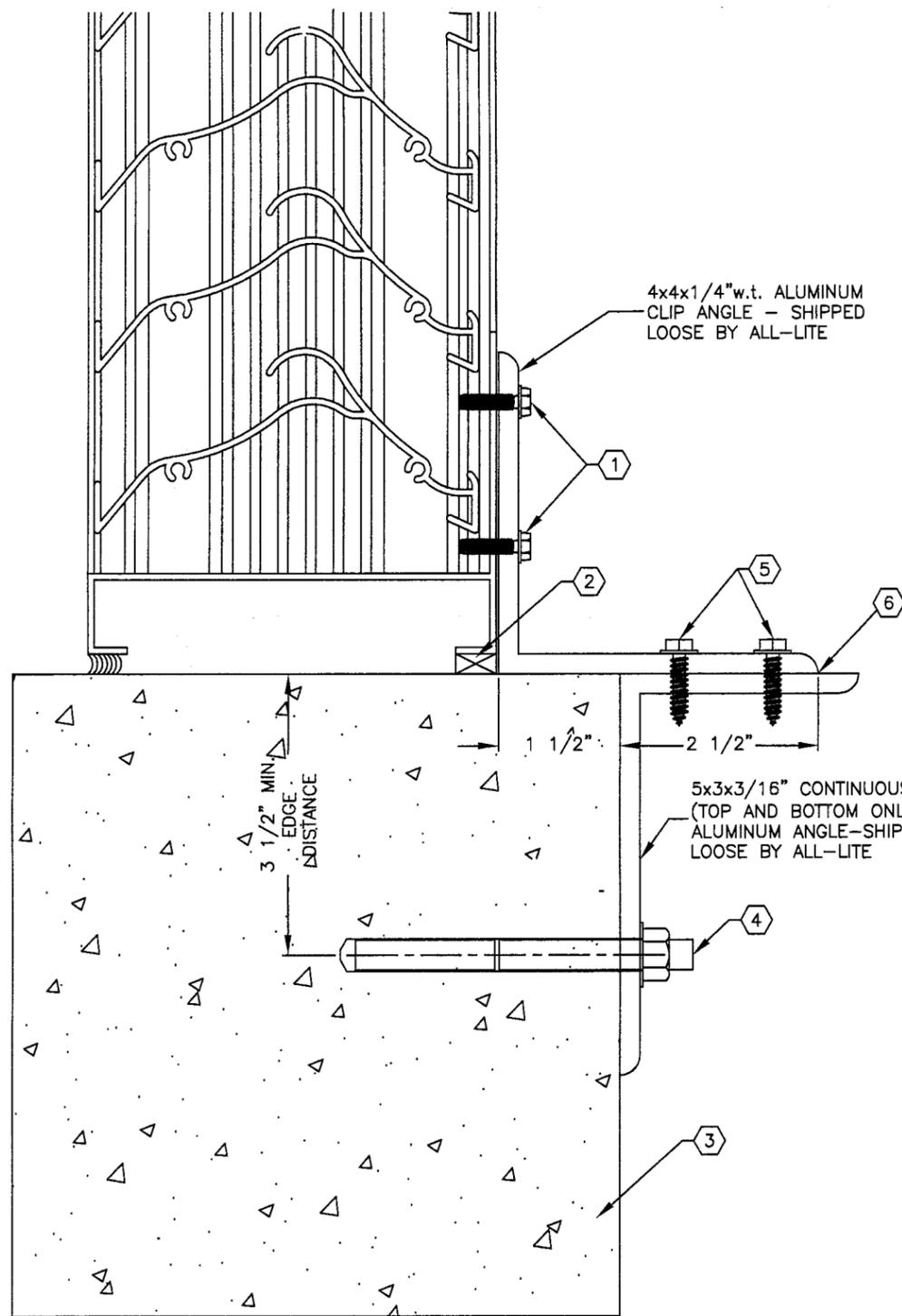
FILE:

REV. NO.	DESCRIPTION	DATE	DRAWN BY
4	FASTENER SPACING PER MIAMI DADE	1/21/10	TB
3	UPDATED WITH CD-55 DAMPER OPTION	9/1/09	DNG
2	CHANGED 48" O.C. TO 34" O.C.	7/29/08	DNG
1	CHANGED 60" O.C. TO 48" O.C.	01/09/08	DNG

5101 BLUE MOUND ROAD
FORT WORTH, TEXAS 76106
E-mail: all-lite@alllite-louvers.com
Web Address: www.alllite-louvers.com
Phone: 817-831-7038 Fax: 817-831-3110



DRAWING DESC.: DETAILS / SECTIONS				
PROJECT: ECD-545-MD				
LOCATION:				
ARCHITECT:				
CUSTOMER:				
DATE: 8-8-06	DWN BY: DNICH	A.L.C. ORDER NO.	CUSTOMER P.O. NO.	DRAWING NO. DC-D3
SCALE: NOTED	SHEET: 5 of 10			



CODED NOTES

- ① F1 - FOUR (4) FASTENERS FROM CLIP ANGLE INTO EACH OF TWO FRAME MEMBERS - #12-24x1" LONG SELF TAPPING STAINLESS STEEL MACHINE SCREWS, F-POINT, BRIGHT HARDENED PASSIVATED AND WAXED, MADE IN USA. (SHIPPED LOOSE BY ALL-LITE). $\phi 0.177$ " / #16 DRILL BIT PILOT HOLE REQUIRED.
- ② SHIM AS REQUIRED TO MAKE LOUVER LEVEL AND PLUMB - BY INSTALLER (TYP)
- ③ THIS CONDITION MAY BE ONE OF THE FOLLOWING:
 - A: 8" SOLIDLY GROUTED BOND BEAM BLOCKS - REINFORCED (GROUT STRENGTH 2000 PSI)
 - B: SOLID CONCRETE (4000 PSI)
 - 1. PRE-CAST CONCRETE
 - 2. CAST-IN-PLACE CONCRETE
- ④ $\phi 3/8$ " HILTI HIT HY 150 EPOXY INJECTION ADHESIVE ANCHOR WITH STAINLESS STEEL HAS ROD. 3-1/2" EMBEDMENT DEPTH. ANCHORS MUST BE 4" FROM EITHER END AND MAINTAIN A NOMINAL DISTANCE OF 26" O.C.
- ⑤ FASTENERS FROM CLIP ANGLE INTO 5x3x3/16" ANCHOR CLIP - #12-24x1" LONG 410 STAINLESS STEEL SELF DRILLING TEK SCREWS. $\phi 0.218$ " / 7/32" DRILL BIT THRU HOLES.
- ⑥ INSTALLER TO PROVIDE GASKET MATERIAL BETWEEN ALUMINUM AND STEEL CLIP ANGLES FOR SEPARATION OF DISSIMILAR MATERIALS, WHERE APPROPRIATE.

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 Luxemburg, WI 54217
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 www.rice-inc.com

DAVID RICE

Florida Firm No F-01000005061
 Certificate of Authorization: #9090
 L David Rice
 Registration No: 50923

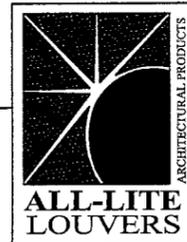
PRODUCT REVISED
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 Acceptance No 07-1015-08
 Expiration Date 10/07/2013
 By *[Signature]*
 Miami Dade Product Control
 Division

[Signature]
 JAN 22 2010

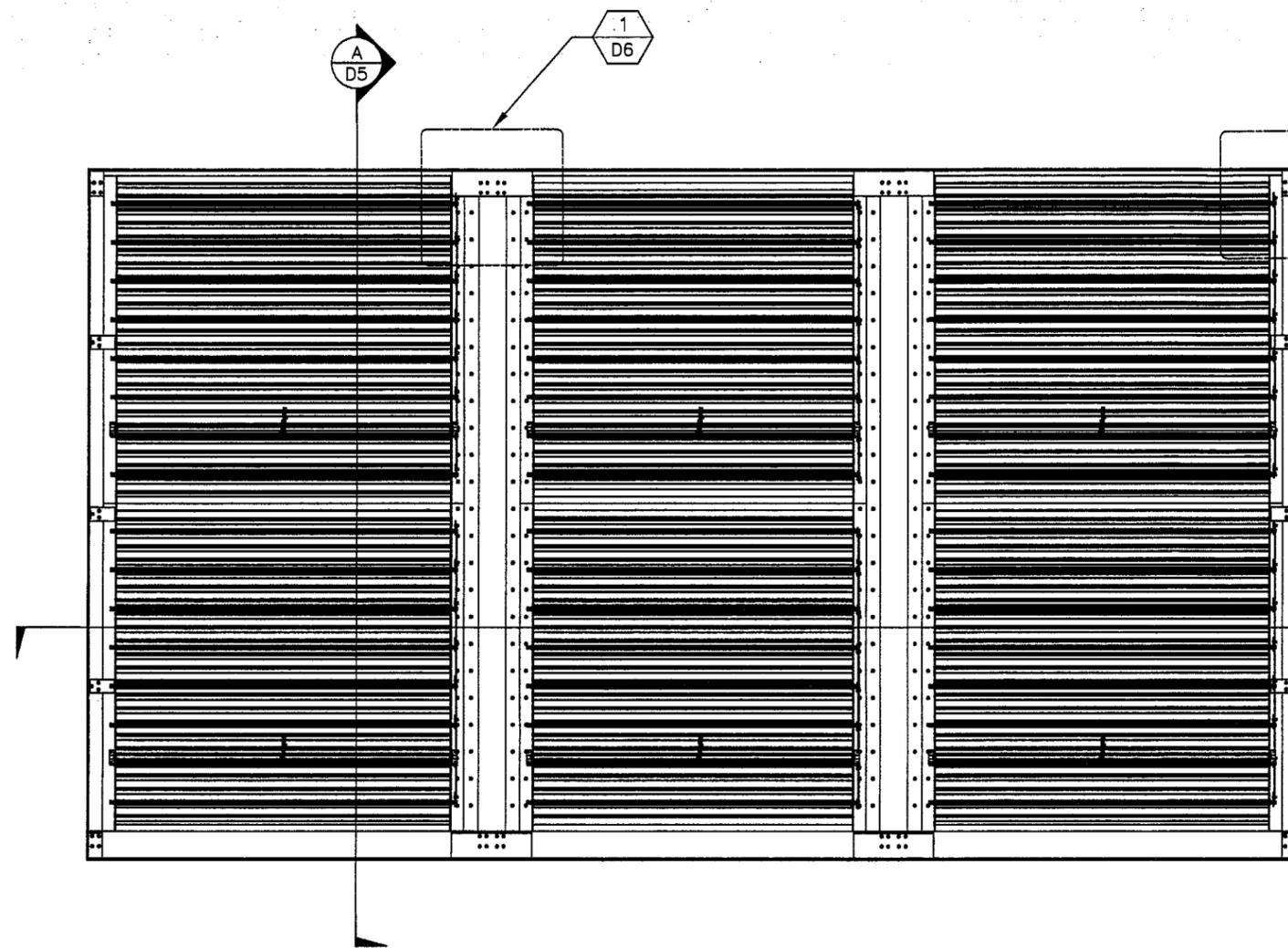
REV. NO.	DESCRIPTION	DATE	DRAWN BY
4	FASTENER SPACING PER MIAMI DADE	1/21/10	TB
3	UPDATED WITH CD-55 DAMPER OPTION	9/1/09	DNG
2	CHANGED 48" O.C. TO 34" O.C.	7/29/08	DNG
1	CHANGED 60" O.C. TO 48" O.C.	01/09/08	DNG

FILE:

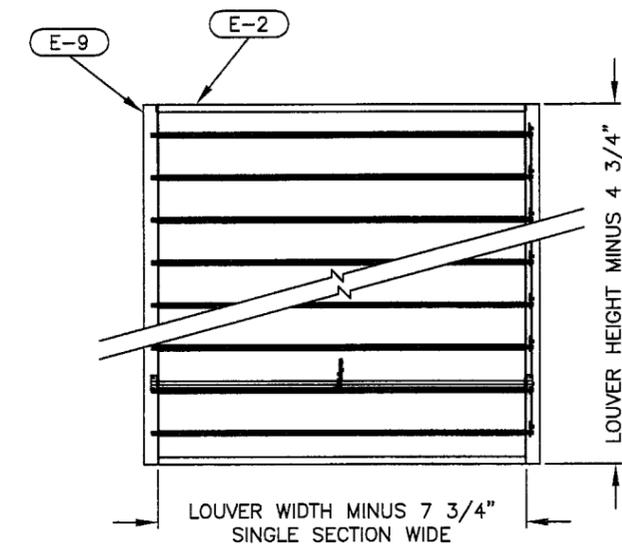
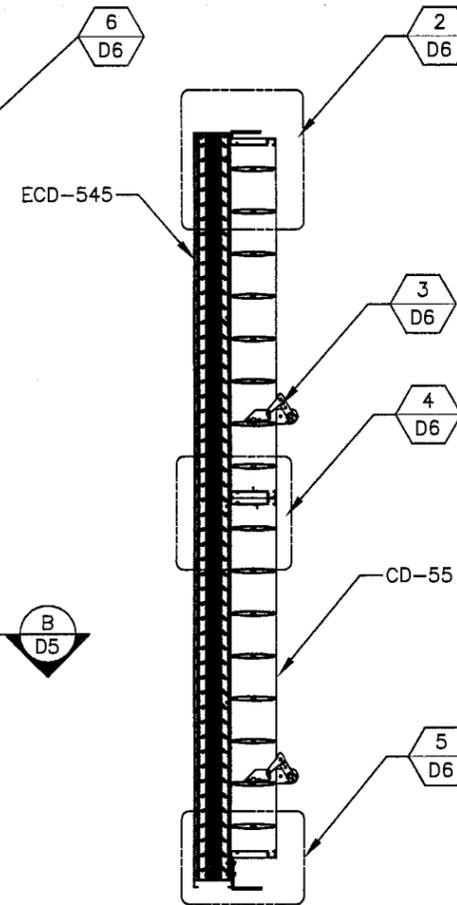
5101 BLUE MOUND ROAD
 FORT WORTH, TEXAS 76106
 E-mail: all-lite@allite-louvers.com
 Web Address: www.allite-louvers.com
 Phone: 817-831-7038 Fax: 817-831-3110



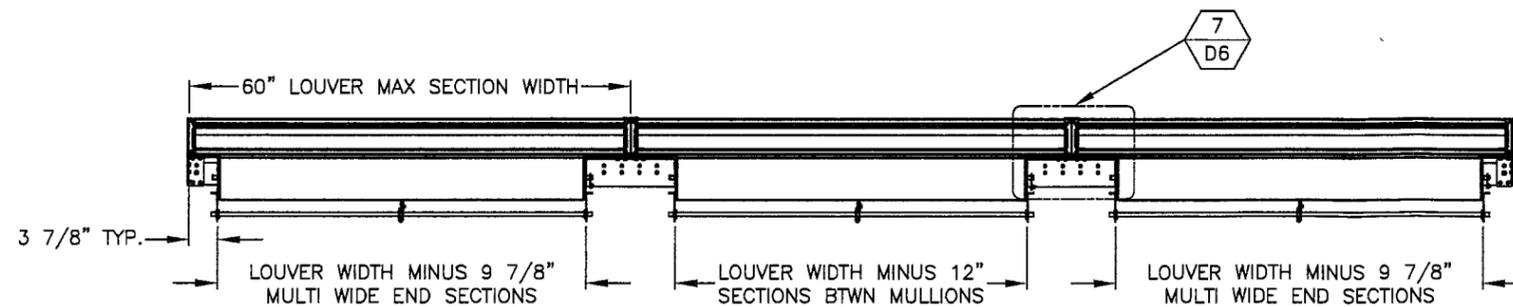
DRAWING DESC.: DETAILS / SECTIONS				
PROJECT: ECD-545-MD				
LOCATION:				
ARCHITECT:				
CUSTOMER:				
DATE: 8-8-06	DWN BY: DNICH	A.L.C. ORDER NO.	CUSTOMER P.O. NO.	DRAWING NO. DC-D4
SCALE: NOTED	SHEET: 6 of 8			



INTERIOR ELEVATION ECD-545



INTERIOR ELEVATION CD-55



CD-55 ATTACHMENT B D5 MULTIPLE SECTION WIDE

CD-55 ATTACHMENT A D5 MULTIPLE SECTION TALL



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Division

Florida Firm No F-01000005061
Certificate of Authorization: #9090
L. David Rice
Registration No: 50923

[Signature]
JAN 22 2010

REV. NO.	DESCRIPTION	DATE	DRAWN BY
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3	UPDATED WITH CD-55 DAMPER OPTION	9/1/09	DNG
2	CHANGED 48" O.C. TO 34" O.C.	7/29/08	DNG
1	CHANGED 60" O.C. TO 48" O.C.	01/09/08	DNG

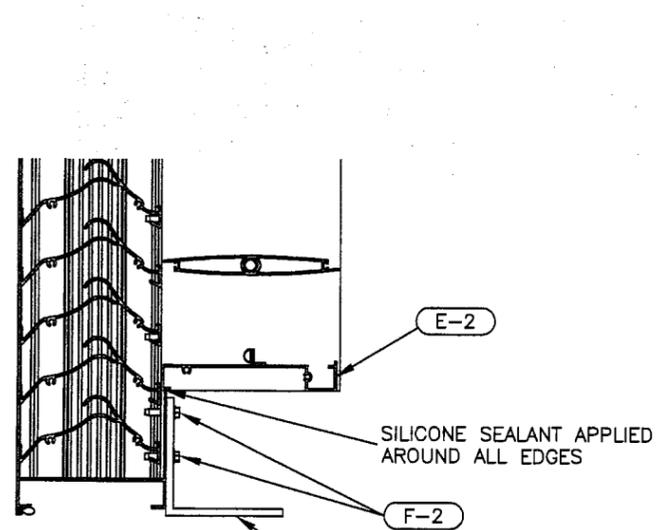
FILE:

5101 BLUE MOUND ROAD
FORT WORTH, TEXAS 76106
E-mail: all-lite@alllite-louvers.com
Web Address: www.alllite-louvers.com
Phone: 817-831-7038 Fax: 817-831-3110

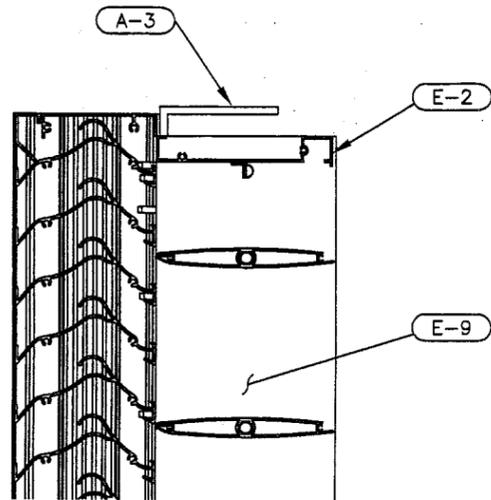


DRAWING DESC.: INTERIOR ELEVATION OF ECD-545 & CD-55				
PROJECT: ECD-545-MD				
LOCATION:				
ARCHITECT:				
CUSTOMER:				
DATE: 8-8-06	DWN BY: DNICH	A.L.C. ORDER NO.	CUSTOMER P.O. NO.	DRAWING NO. DC-D5
SCALE: NOTED	SHEET: 7 of 10			

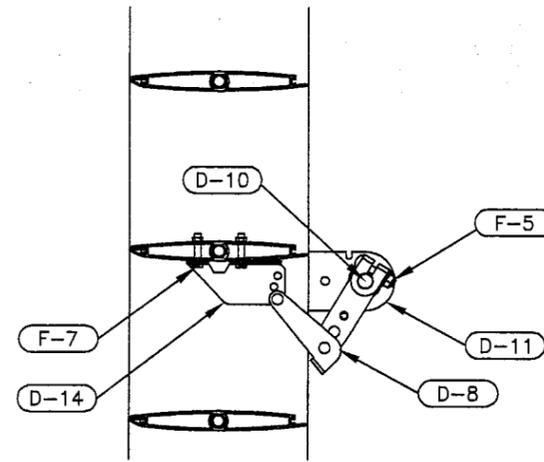
NOTES:
 I. INSTALLER TO PROVIDE GASKET MATERIAL BETWEEN DISSIMILAR METALS FOR SEPARATION



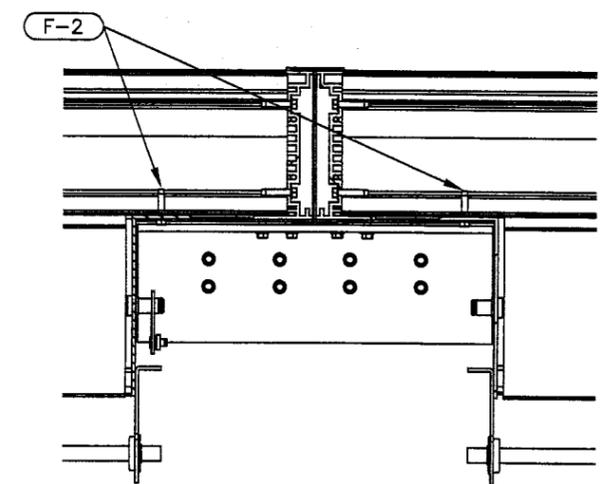
CD-55 ATTACHMENT 5 BOTTOM DETAILS
 D6 D5



CD-55 ATTACHMENT 2 TOP DETAILS
 D6 D5

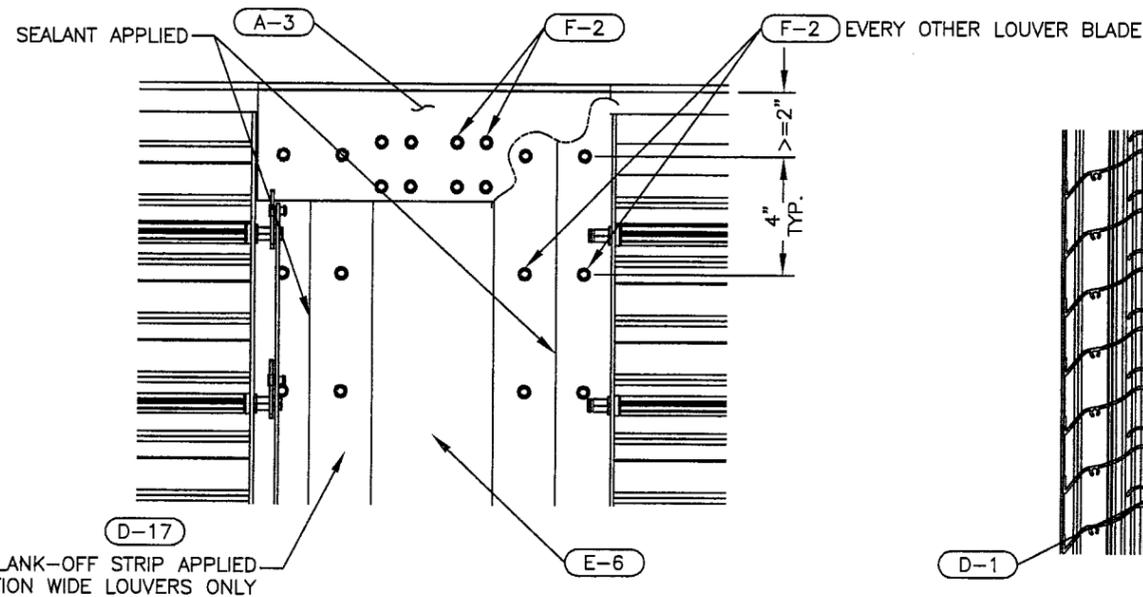


CD-55 ATTACHMENT 3 OPERABLE BLADE
 D6 D5

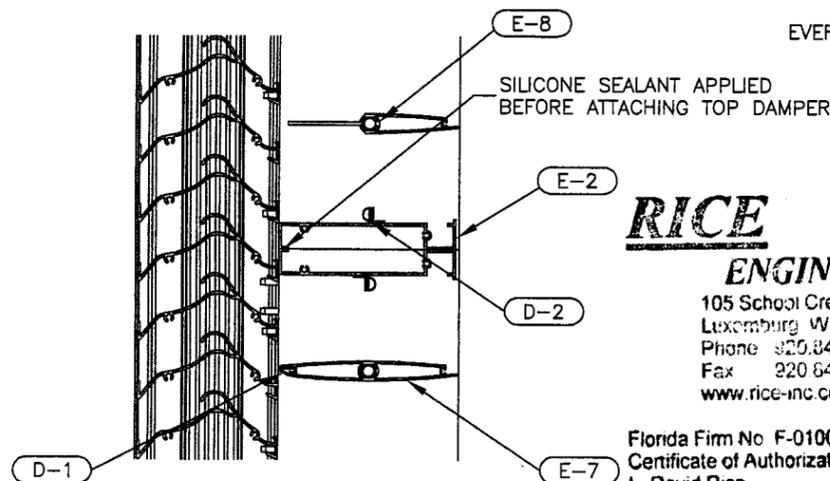


CD-55 ATTACHMENT 7 DAMPER ATTACHMENT
 D6 D5

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CD-55 ATTACHMENT 1 MULTIPLE SECTION (TYP. TOP & BTM)
 D6 D5

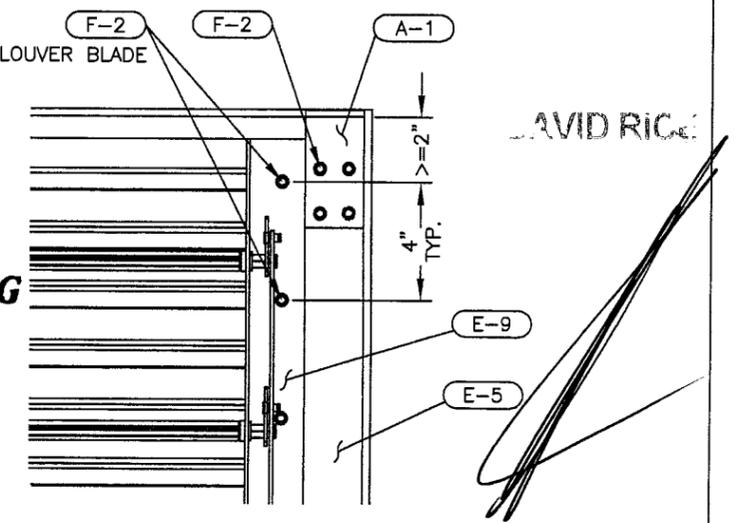


CD-55 ATTACHMENT 4 ATTACHING DAMPER
 D6 D5

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 L. David Rice
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CD-55 ATTACHMENT 6 TOP END DETAILS (TYP. TOP & BTM)
 D6 D5

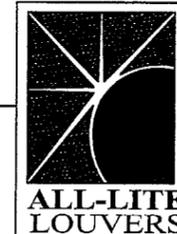
DAVID RICE

JAN 22 2010

FILE:

REV. NO.	DESCRIPTION	DATE	DRAWN BY
4	FASTENER SPACING PER MIAMI DADE	1/21/10	TB
3	UPDATED WITH CD-55 DAMPER OPTION	9/1/09	DNG
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1	CHANGED 60" O.C. TO 48" O.C.	01/09/08	DNG

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DRAWING DESC.: DETAILS			
PROJECT: ECD-545-MD			
LOCATION:			
ARCHITECT:			
CUSTOMER:			
DATE: 8-8-06	DWN BY: DNICH	A.L.C. ORDER NO.	CUSTOMER P.O. NO.
SCALE: NOTED	SHEET: 8 OF 10		DRAWING NO. DC-D6

PART #: E-1
 PART NAME: HEAD
 MATERIAL: 0.081" THICK 6063-T5 EXTRUDED ALUMINUM
 SCALE: 3"=1'

PART #: E-2
 PART NAME: DAMPER SILL
 MATERIAL: 0.081" THICK 6063-T5 EXTRUDED ALUMINUM
 SCALE: 3"=1'

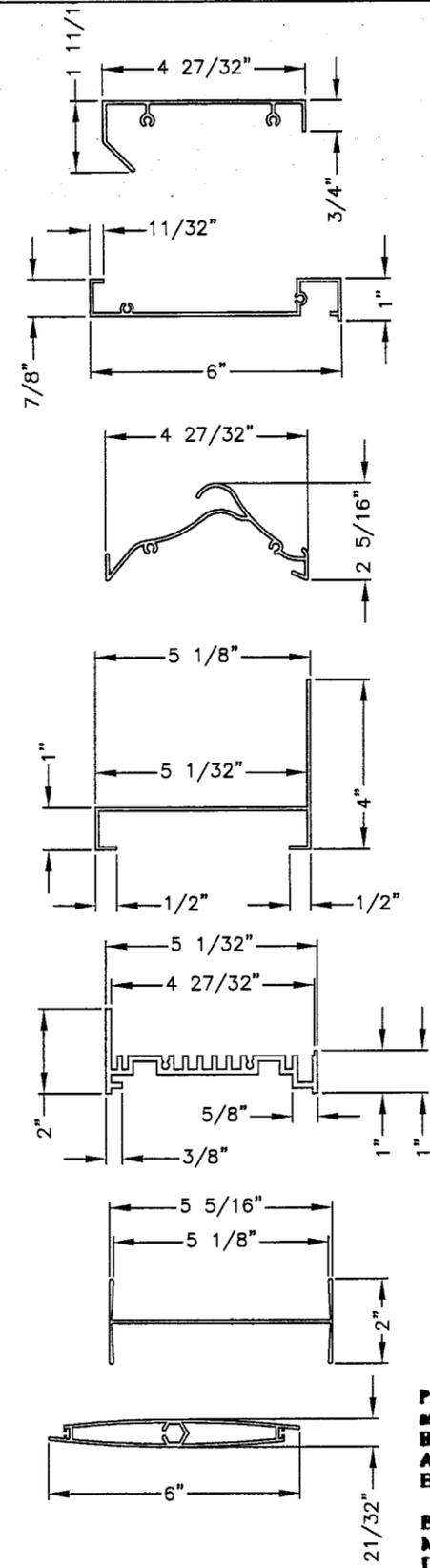
PART #: E-3
 PART NAME: BLADE
 MATERIAL: 0.081" THICK 6063-T5 EXTRUDED ALUMINUM
 SCALE: 3"=1'

PART #: E-4
 PART NAME: SILL
 MATERIAL: 0.081" THICK 6063-T5 EXTRUDED ALUMINUM
 SCALE: 3"=1'

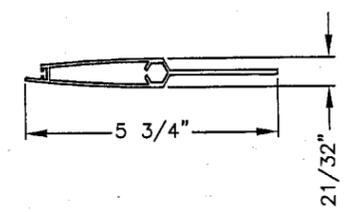
PART #: E-5
 PART NAME: JAMB
 MATERIAL: 0.125" THICK 6063-T5 EXTRUDED ALUMINUM
 SCALE: 3"=1'

PART #: E-6
 PART NAME: I-MULLION SEAM COVER
 MATERIAL: 0.078" THICK 6063-T5 EXTRUDED ALUMINUM
 SCALE: 3"=1'

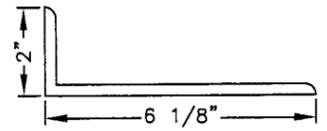
PART #: E-7
 PART NAME: DAMPER AIRFOIL BLADE, FULL
 MATERIAL: 0.070" THICK 6063-T5 EXTRUDED ALUMINUM
 SCALE: 3"=1'



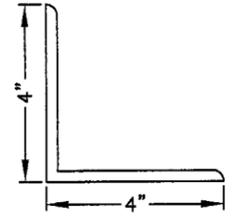
PART #: E-8
 PART NAME: DAMPER AIRFOIL BLADE, HALF
 MATERIAL: 0.070" THICK 6063-T5 EXTRUDED ALUMINUM
 SCALE: 3"=1'



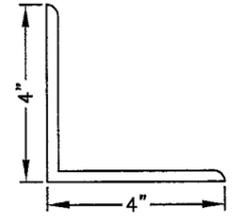
PART #: E-9
 PART NAME: DAMPER JAMB
 MATERIAL: 0.125" THICK 6063-T5 EXTRUDED ALUMINUM
 SCALE: 3"=1'



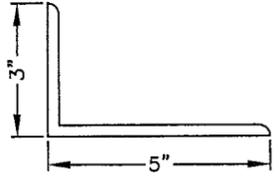
PART #: A-1, A-2
 PART NAME: CLIP ANGLE - @ TOP CORNER, BOTTOM CORNER, & INTERMEDIATE OF JAMB
 MATERIAL: 0.25" THICK 6063-T5 EXTRUDED ALUMINUM (2" LONG)
 SCALE: 3"=1'



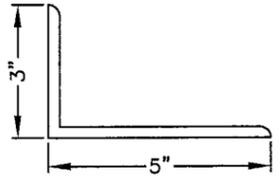
PART #: A-3
 PART NAME: CLIP ANGLE - @ TOP & BOTTOM OF JAMB MULLION CONNECTION
 MATERIAL: 0.25" THICK 6063-T5 EXTRUDED ALUMINUM (12" LONG)
 SCALE: 3"=1'



PART #: A-4
 PART NAME: CONTINUOUS ANGLE
 MATERIAL: 0.1875" THICK 6063-T5 EXTRUDED ALUMINUM
 SCALE: 3"=1'



PART #: A-5
 PART NAME: INTERMEDIATE JAMB CONDITION CLIP ANGLE
 MATERIAL: 0.25" THICK 6063-T5 EXTRUDED ALUMINUM (2" LONG)
 SCALE: 3"=1'



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RICE
ENGINEERING

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 L David Rice
 Registration No: 50923

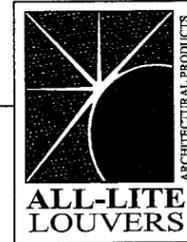
DAVID RICE

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FILE:

REV. NO.	DESCRIPTION	DATE	DRAWN BY
4	FASTENER SPACING PER MIAMI DADE	1/21/10	TB
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1	CHANGED 60" O.C. TO 48" O.C.	01/09/08	

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DRAWING DESC.: EXTRUSIONS			
PROJECT: ECD-545-MD			
LOCATION:			
ARCHITECT:			
CUSTOMER:			
DATE: 8-8-06	DWN BY: DNICH	A.L.C. ORDER NO.	CUSTOMER P.O. NO.
SCALE: NOTED	SHEET: 9 OF 10		DRAWING NO. DC-D7

PARTS KEY

FASTENERS / ANCHORS

F-1	#10-24 x 3/4" L, 410 S.S., SELF-DRILLING TEK MACHINE SCREW
F-2	#10-24x3/4" LONG, 410 S.S., "F" POINT THREAD-CUTTING MACHINE SCREW, BRIGHT HARDENED, PASSIVATED AND WAXED, MADE IN U.S.A.
F-3	#12-24x1" LONG, 410 S.S., "F" POINT THREAD-CUTTING MACHINE SCREW, BRIGHT HARDENED, PASSIVATED AND WAXED, MADE IN U.S.A.
F-4	#12-24x1" LONG, 410 S.S., SELF-DRILLING TEK MACHINE SCREW
F-5	5/16-18 1 1/4" L ROUND HEAD, SQUARE NECK BOLT & 5/16-18 FLANGED HEX NUT
F-6	Ø3/8"x3 3/8" LONG HILTI HIT HY 150 EPOXY INJECTED ADHESIVE ANCHOR W/ 5 1/8" LONG S.S. HAS ROD, EMBEDMENT DEPTH OF 3 1/2"
F-7	1/4-20 x 1 1/4" L HEX HEAD BOLT & 1/4-20 HEX NUT

ANGLES

A-1	4"x4"x2"x1/4" w.t. 6063-T5 EXTRUDED ALUMINUM ANGLE @ TOP AND BOTTOM CORNERS
A-2	4"x4"x2"x1/4" w.t. 6063-T5 EXTRUDED ALUMINUM ANGLE @ INTERMEDIATE OF OUTER MOST JAMBS
A-3	4"x4"x12"x1/4" w.t. 6063-T5 EXTRUDED ALUMINUM ANGLE @ TOP AND BOTTOM OF MULLION CONNECTIONS
A-4	5"x3"x3/16" w.t. 6063-T5 EXTRUDED ALUMINUM CONTINUOUS ANGLE
A-5	5"x3"x3/16" w.t. x2" LONG 6063-T5 EXTRUDED ALUMINUM ANGLE

EXTRUDED FRAME

E-1	HEAD FRAME, 0.081" THICK, 6063-T5 EXTRUDED ALUMINUM
E-2	DRIP, 0.081" THICK, 6063-T5 EXTRUDED ALUMINUM
E-3	BLADE, 0.081" THICK, 6063-T5 EXTRUDED ALUMINUM
E-4	SILL FRAME, 0.081" THICK, 6063-T5 EXTRUDED ALUMINUM
E-5	JAMB FRAME, 0.125" THICK, 6063-T5 EXTRUDED ALUMINUM
E-6	I-MULLION SEAM COVER, 0.078" THICK, 6063-T5 EXTRUDED ALUMINUM
E-9	2"x6 1/2"x1/8" w.t. 6063-T5 EXTRUDED ALUMINUM ANGLE DAMPER JAMB

INSTALLATION NOTES

I-1	SEALANT AND BACKER ROD PROVIDED BY INSTALLER (TYP)
I-2	SHIM AS REQ'D TO MAKE LEVEL AND PLUMB, PROVIDED BY INSTALLER (TYP)

MISC. DAMPER PARTS

PART #	DESCRIPTION	MATERIAL
D-1	BLADE SEAL	PVC
D-2	STOP SEAL	PVC
D-3	BLADE STOP, 14 GA. FORMED ALUMINUM	14 GA. ALUMINUM
D-4	HEX AXLE, 304 SST	304 SST
D-5	HEX BUSHING,	ACETAL COPOLYMER
D-6	PARALLEL CAM, 304 SST	304 SST
D-7	LINK BAR, 1/2" x 1/8" GALV FLAT BAR	1/2" x 1/8" GALVANIZED FLAT BAR
D-8	KNEE LOCK ASSEMBLY, GALV.	GALVANIZED
D-9	WASHER, NYLON	NYLON
D-10	JACKSHAFT, GALV	GALVANIZED
D-11	JACKSHAFT BRACKET, GALV	12 GA. GALVANIZED
D-12	JACKSHAFT BEARING	
D-13	JACKSHAFT SPRING CLIP	.090 STEEL WIRE
D-14	BLADE BRACKET	14 GA.
D-15	PIN	GALVANIZED
D-16	E-RING	GALVANIZED
D-17	MULTI-SECTION COVER PLATE	8 GA. ALUMINUM

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Miami Dade Product Control
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DAVID RICE

JAN 22 2010



DRAWING DESC.: PARTS KEY		A.L.C. ORDER NO.		CUSTOMER P.O. NO.		DRAWING NO.	
PROJECT: ECD-545-MD		DATE: 8-8-06		DWN BY: DNICH		DC-D6	
LOCATION:		SCALE: NONE		SHEET: 10 OF 10			
ARCHITECT:							
CUSTOMER:							