



MIAMI-DADE COUNTY
BUILDING AND NEIGHBORHOOD COMPLIANCE DEPARTMENT (BNC)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
 11805 SW 26 Street, Room 208
 Miami, Florida 33175-2474
 T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/building

NOTICE OF ACCEPTANCE (NOA)

Pottorff 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 and accepted by Miami-Dade County BNC - Product Control Section 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 Section (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. BNC reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section 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, G-1, E-1 to E-7, D-1 to D-6 and B-1 and B-2, titled "ECD-545-MD", sheets 1 through 17 of 17, dated 12/07/10, with revision 6 dated 06/09/11, prepared by Pottorff, 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 Section.

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 # 09-1015.07 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 and date: 07/06/11

NOA No. 11-0429.04
 Expiration Date: October 23, 2013
 Approval Date: July 14, 2011
 Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **DC-C1, G-1, E-1 to E-7, D-1 to D-6 and B-1 and B-2**, titled "ECD-545-MD", sheets 1 through 17 of 17, dated 12/07/10, with revision 6 dated 06/14/11, prepared by Pottorff Division of PCI Industries, signed and sealed by L. David Rice, P.E.

B. TESTS

1. 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 installation diagram of a Model ECD-545-MD Aluminum Louver, prepared by Architectural Testing, Inc, Test Report No. **A1620.01-801-18**, dated 10/18/10, signed and sealed by Joseph A. Reed, P.E.
2. 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 # 09-1015.07"
3. 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.
"Submitted under NOA # 08-0528.04"

C. CALCULATIONS

1. ECD-545-MD Louver calculations prepared by Rice Engineering, dated 04/21/11, signed and sealed by L. David Rice, P.E.

D. QUALITY ASSURANCE

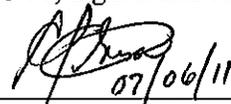
1. Miami-Dade Building and Neighborhood Compliance Department (BNC)

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of code compliance with 2007 FBC, issued by Rice Engineering, dated 03/30/11, signed and sealed by L. David Rice, P.E.
2. No financial interest letter issued by Rice Engineering, dated 03/30/11, signed and sealed by L. David Rice, P.E.



Carlos M. Utrera, P.E.

Product Control Examiner

NOA No. 11-0429.04

Expiration Date: October 23, 2013

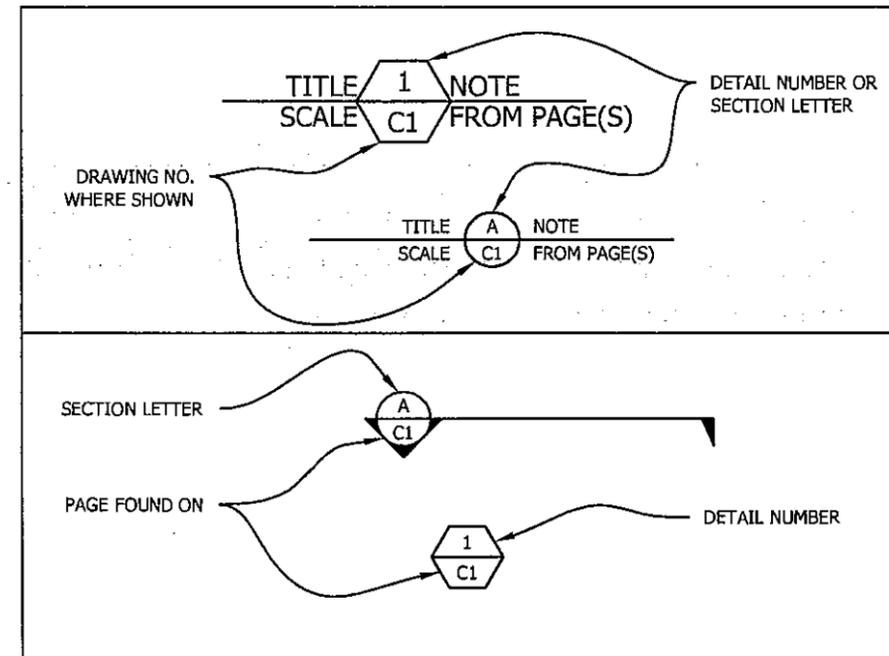
Approval Date: July 14, 2011

NOTES:

1. THIS NOA DRAWING INCLUDES INSTALLATION DETAILS TO ATTAIN MAXIMUM DESIGN PRESSURES OF 80 AND 150 PSF AS TESTED IN ACCORDANCE TO TAS 201, TAS 202, AND TAS 203. THE INSTALLATION OF A CD-55 DAMPER OPTION YIELDS WATER INGRESS PROTECTION AS TESTED IN ACCORDANCE WITH TAS 100(A).
2. ALL VARIATIONS ARE LARGE MISSILE IMPACT RESISTANT.
3. UNITS OF MEASURE ARE FRACTIONAL INCHES UNLESS OTHERWISE SPECIFIED.
4. IT IS ASSUMED THAT THE LOUVER SYSTEMS DO NOT SUPPORT ANY LOADS TRANSFERRED FROM THE BUILDING CONDITION.
5. IT IS ASSUMED THAT THE BUILDING CONDITIONS ARE ADEQUATELY DESIGNED TO SUPPORT LOADS IMPARTED BY THE LOUVER SYSTEM.
6. INSTALLER TO PROVIDE GASKET MATERIAL BETWEEN DISSIMILAR MATERIALS IN ORDER TO PROTECT FROM CORROSION.
7. WATER PENETRATION:
 - a. LOUVERS WITHOUT THE CD-55 DAMPER OPTION ARE TO BE 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.
 - b. CRITICAL EQUIPMENT DOES NOT NEED TO BE PROTECTED FROM MOISTURE INGRESS WHEN LOUVERS ARE UTILIZED WITH THE CD-55 DAMPER OPTION AND THE DAMPERS ARE CLOSED.
8. OTHER BUILDING CONDITIONS THAN THOSE DENOTED CAN BE UTILIZED IF ANALYZED AND APPROVED BY A PROFESSIONAL ENGINEER.
9. 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.

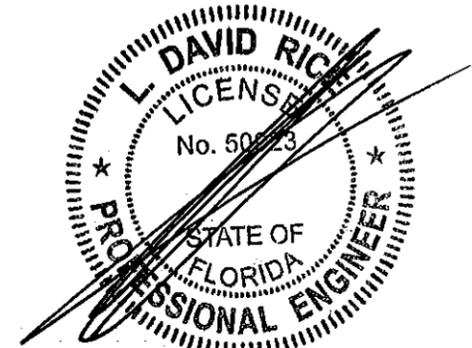
TABLE 1		
SINGLE SECTION SIZE LIMITATIONS		
MAX DESIGN PRESSURE	MIN (W X H)	MAX (W X H)
80 PSF	12 X 12	60 X 102
150 PSF	12 X 12	48 X 144

TABLE 2	
MULTIPLE SECTION SIZE LIMITATIONS (MAX DESIGN PRESSURE: 80 & 150 PSF)	
LOUVER SYSTEM CONFIGURATION:	NOTE:
SINGLE SECTION WIDE - UNLIMITED HEIGHT	SEE SHEET E2
SINGLE SECTION HIGH - UNLIMITED WIDTH	SEE SHEETS E3 & E4
MULTI-SECTION WIDE - MULTI-SECTION HIGH	SEE NOTE 9



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 Certificate of Authorization: #9090
 L. David Rice
 Registration No. 60923



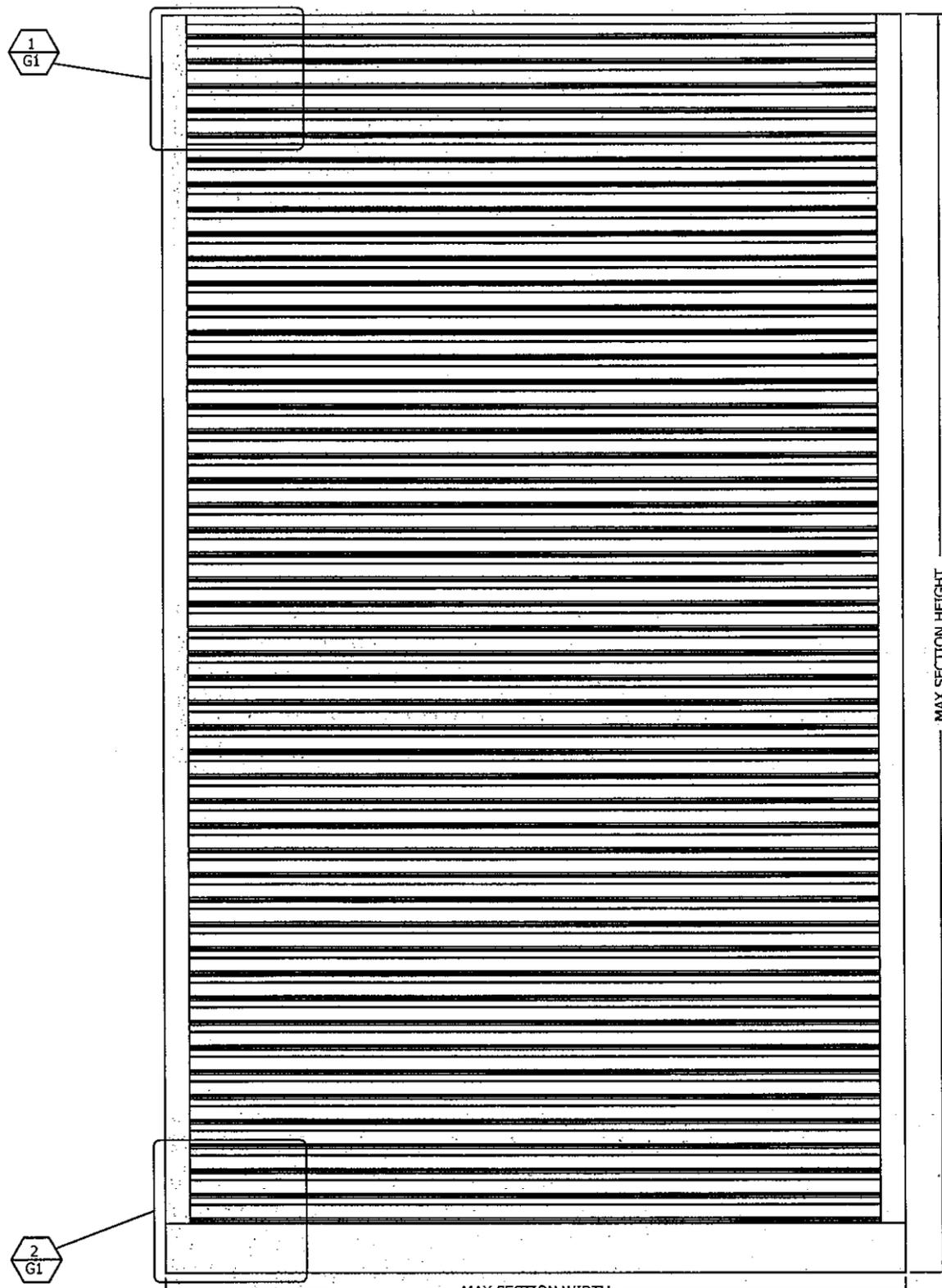
JUN 27 2011

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 as complying with the Florida
 Building Code
 Acceptance No. 11-00429.04
 Expiration Date 10/23/2013
 By *[Signature]*
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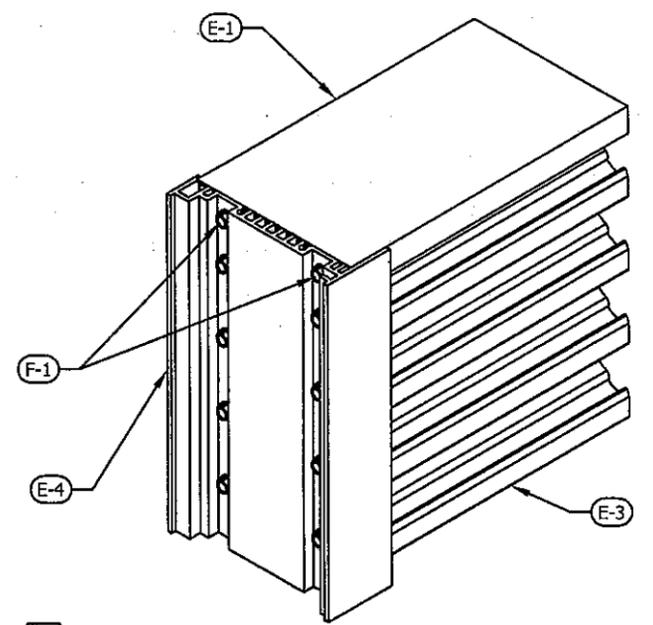
POTTORFF®		5101 Blue Mound Road Fort Worth, Texas 76106 Phone: 817-831-7038 Fax: 817-831-3110		
DRAWING DESC.: COVER PAGE				
PROJECT: ECD-545-MD				
LOCATION:				
ARCHITECT:				
CUSTOMER:				
DATE: 12/07/2010	DWN BY: TB	POTTORFF ORDER NO.	CUSTOMER P.O. NO.	DRAWING NO. DC-CI
SCALE: NTS	SHEET: 01 of 17			

REV. NO.	DESCRIPTION	DATE	DRAWN BY
6	MADE CHG'S PER 6/8/11 LETTER	6/14/11	NW
5	ADDED 150 PSF OPTION	12/07/10	TB
4	FASTENER SPACING PER MIAMI DADE	01/21/10	TB
3	UPDATED WITH CD-55 DAMPER OPTION	09/01/09	DNG
2	CHANGED 48" O.C. TO 34" O.C.	07/29/08	DNG
1	CHANGED 60" O.C. TO 48" O.C.	01/09/08	DNG

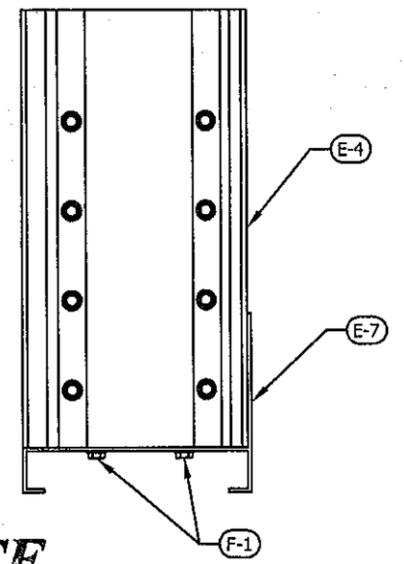
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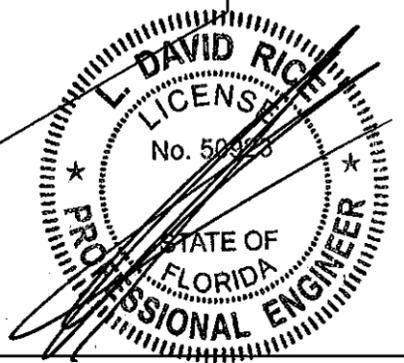
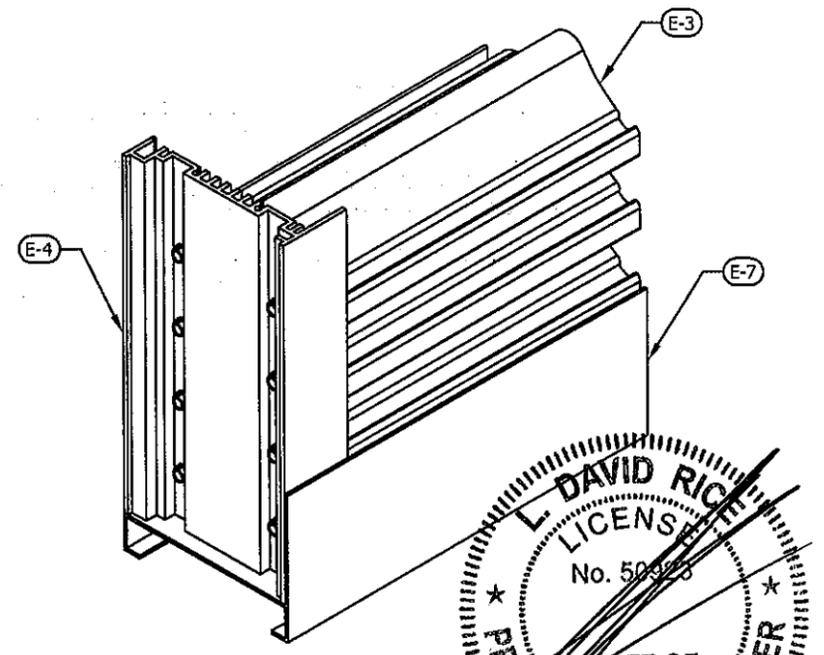
PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 11-0428-04
 Expiration Date 10/23/2013
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TOP CORNER 1 GENERAL ASSEMBLY
 3" = 1' 0" G1 G1



BTM CORNER 2 GENERAL ASSEMBLY
 3" = 1' 0" G1 G1



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 L. David Rice
 Registration No: 50923

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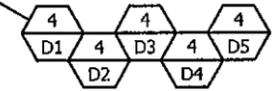
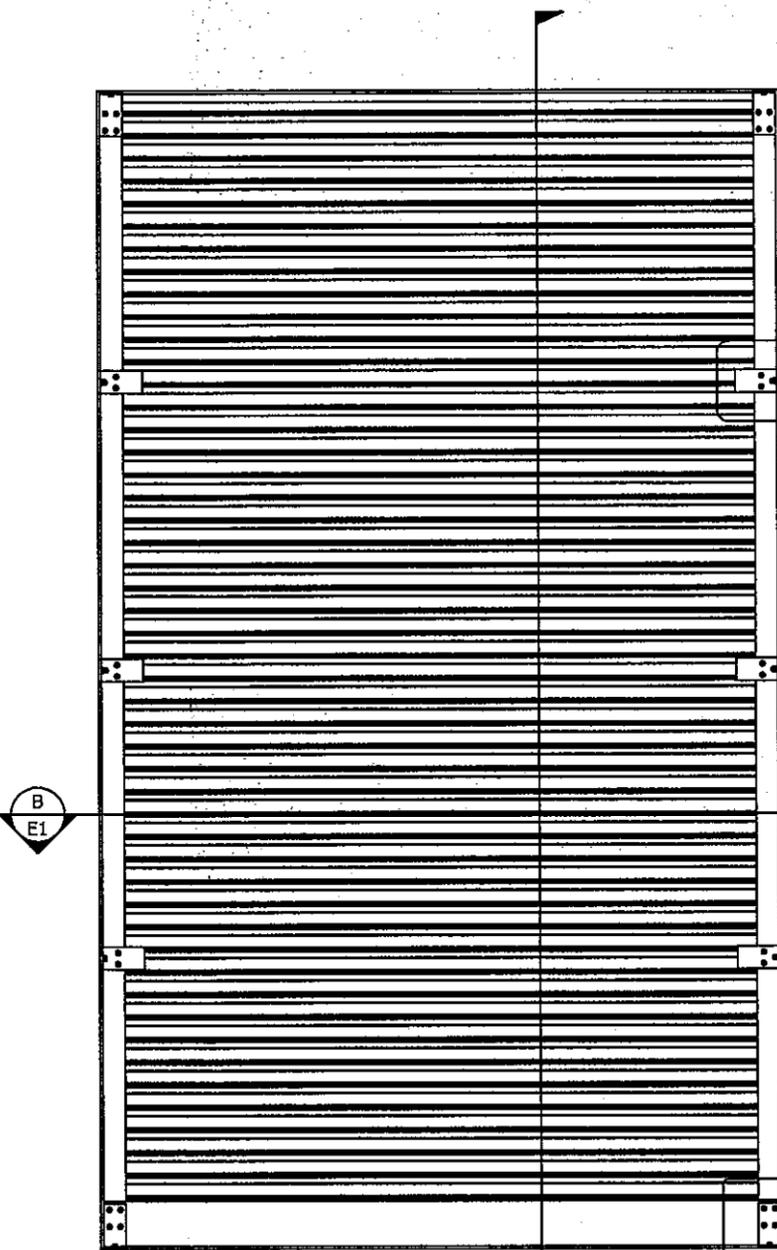
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PROJECT: ECD-545-MD				
LOCATION:				
ARCHITECT:				
CUSTOMER:				
DATE: 12/07/2010	DWN BY: TB	POTTORFF ORDER NO.	CUSTOMER P.O. NO.	DRAWING NO.
SCALE: NTS	SHEET: 02 of 17			DC-G1

INTERIOR ELEVATION

REV. NO.	DESCRIPTION	DATE	DRAWN BY
6	MADE CHG'S PER 6/8/11 LETTER	6/14/11	NW
5	ADDED 150 PSF OPTION	12/07/10	TB
4	FASTENER SPACING PER MIAMI DADE	01/21/10	TB
3	UPDATED WITH CD-55 DAMPER OPTION	09/01/09	DNG
2	CHANGED 48" O.C. TO 34" O.C.	07/29/08	DNG
1	CHANGED 60" O.C. TO 48" O.C.	01/09/08	DNG

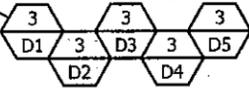
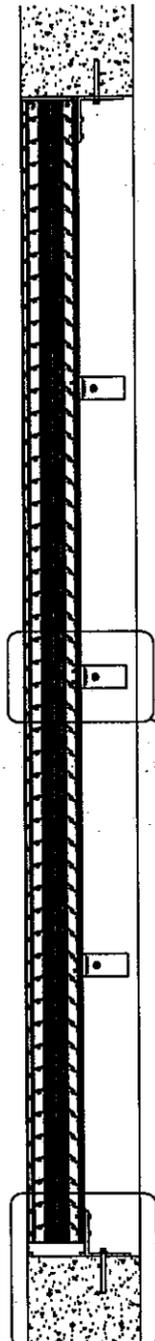
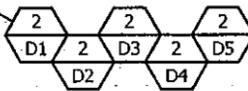
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TABLE 3				
VERTICAL JAMB CLIP ANGLE SPACING				
MAX DESIGN PRESSURE	BUILDING CONDITION - MAXIMUM CLIP ANGLE SPACING (IN.)			
	STEEL	4000 PSI CONCRETE (PRE-CAST OR CAST IN PLACE)	2000 PSI GROUT FILLED BEAM BLOCK	WOOD BLOCK
80 PSF	34.0	34.0	20.4	-
150 PSF	20.0	20.0	20.0	20.0

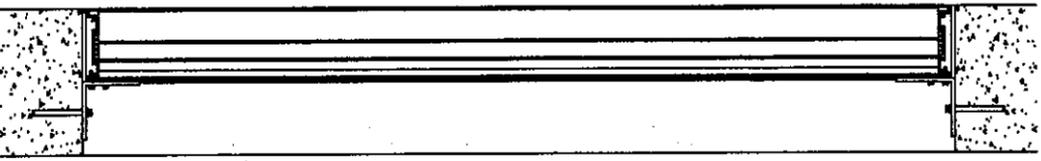


SEE TABLE 3 FOR MAX CLIP SPACING

SEE TABLE 3 FOR MAX CLIP SPACING



SINGLE SECTION HIGH (80 & 150 PSF RATED)
3/4" = 1' 0" E1, E3, E4



SINGLE SECTION WIDE (80 & 150 PSF RATED)
3/4" = 1' 0" E1, E2

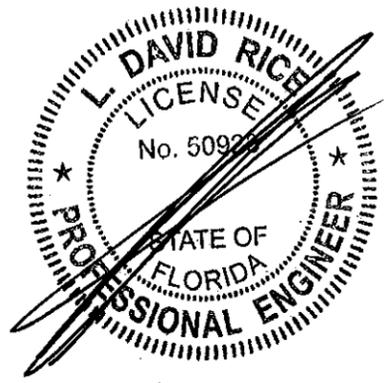
INTERIOR ELEVATION
(MASONRY CONDITION SHOWN FOR REFERENCE ONLY)

RICE ENGINEERING

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Certificate of Authorization: #9090
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as complying with the Florida
Building Code
Acceptance No 11-0429-09
Expiration Date 10/25/2013
By *[Signature]*
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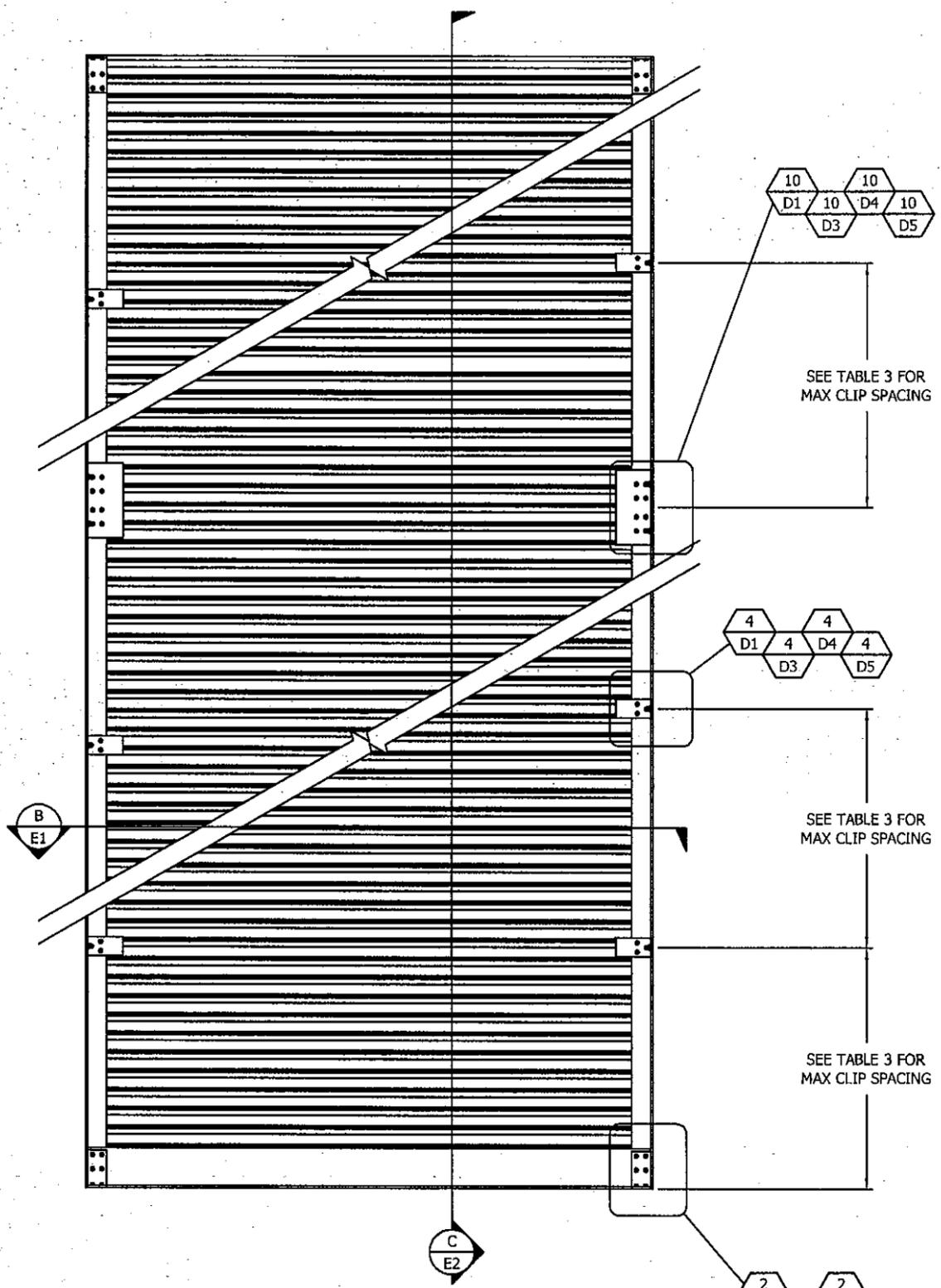


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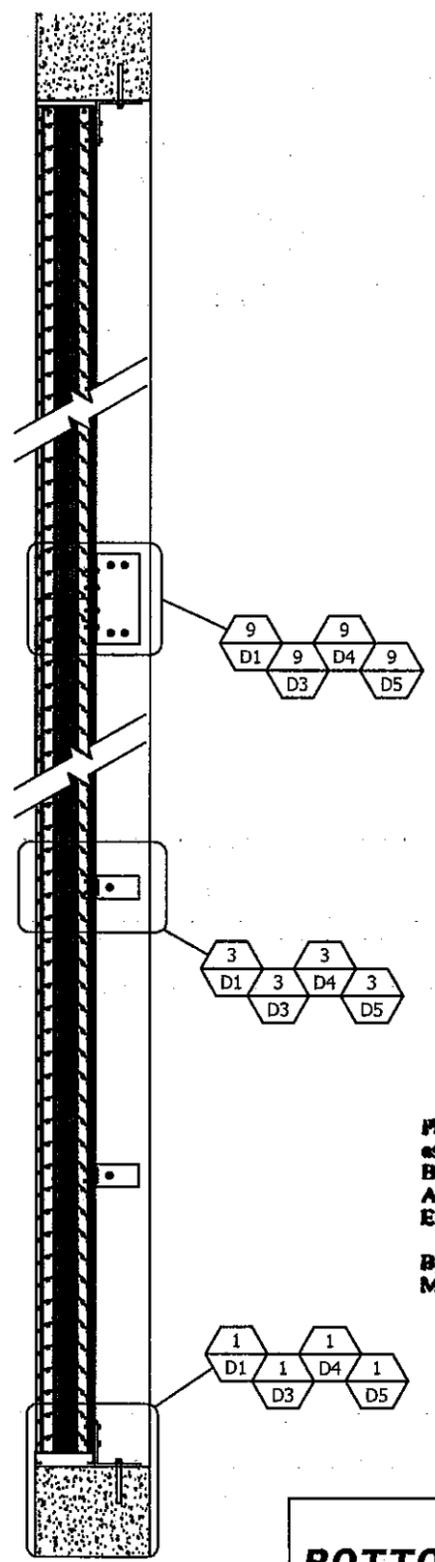
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DRAWING DESC.: SINGLE SECTION WIDE - SINGLE SECTION HIGH (80 & 150 PSF)				
PROJECT: ECD-545-MD				
LOCATION:				
ARCHITECT:				
CUSTOMER:				
DATE: 12/07/2010	DWN BY: TB	POTTORFF ORDER NO.	CUSTOMER P.O. NO.	DRAWING NO. DC-EI
SCALE: 3/4" = 1' 0"	SHEET: 03 of 17			



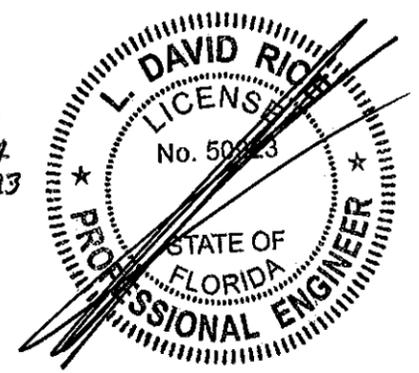
UNLIMITED SECTIONS HIGH C (150 PSF ONLY)
 3/4" = 1' 0" E2 E2



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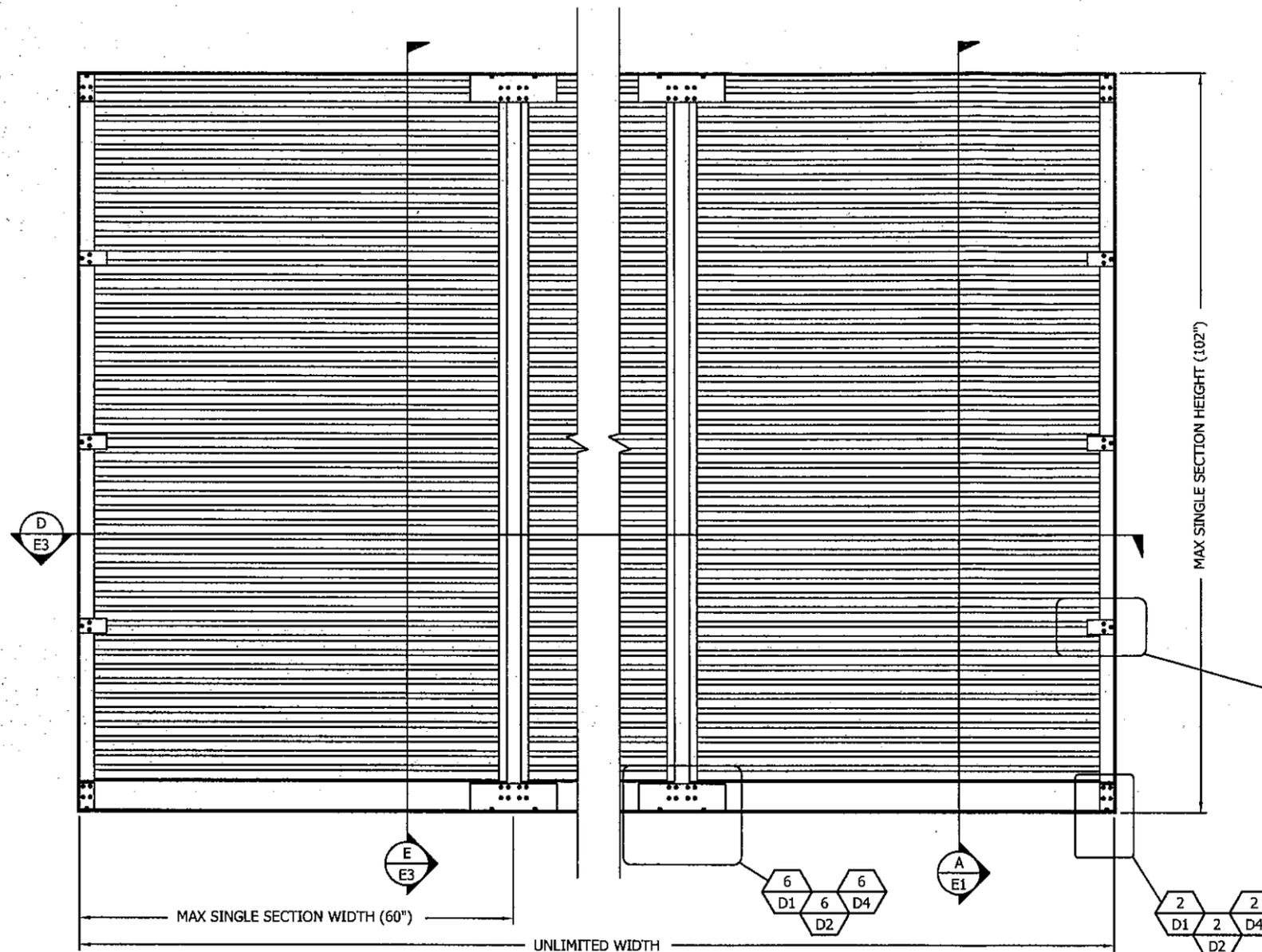
JUN 27 2011

INTERIOR ELEVATION
 (MASONRY CONDITION SHOWN FOR REFERENCE ONLY)

REV. NO.	DESCRIPTION	DATE	DRAWN BY
6	MADE CHG'S PER 6/8/11 LETTER	6/14/11	NW
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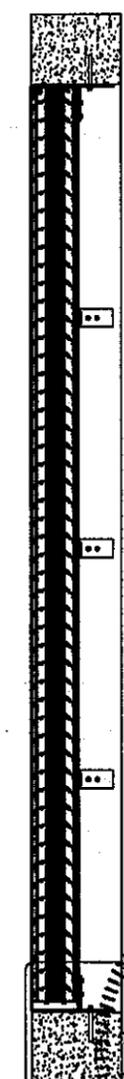
POTTORFF®		5101 Blue Mound Road Fort Worth, Texas 76106 Phone: 817-831-7038 Fax: 817-831-3110		
DRAWING DESC.: SINGLE SECTION WIDE - UNLIMITED HIGH (150 PSF)				
PROJECT: ECD-545-MD				
LOCATION:				
ARCHITECT:				
CUSTOMER:				
DATE: 12/07/2010	DWN BY: TB	POTTORFF ORDER NO.	CUSTOMER P.O. NO.	DRAWING NO.
SCALE: NTS	SHEET: 04 of 17			DC-E2



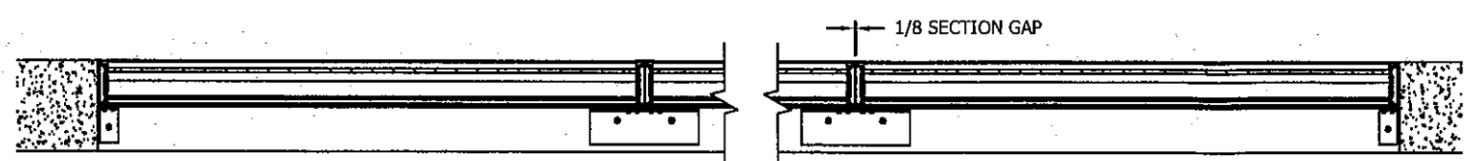
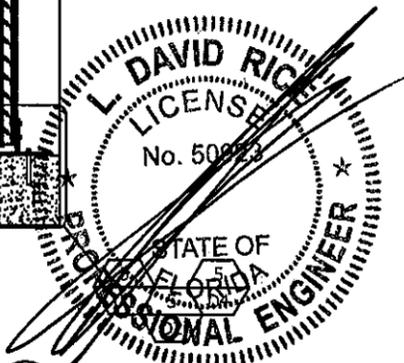
80 PSF INTERIOR ELEVATION
 (MASONRY CONDITION SHOWN FOR REFERENCE ONLY)

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UNLIMITED SECTIONS WIDE (80 PSF RATED)
 3/4" = 1' 0"

UNLIMITED SECTIONS WIDE (80 PSF RATED)
 3/4" = 1' 0"

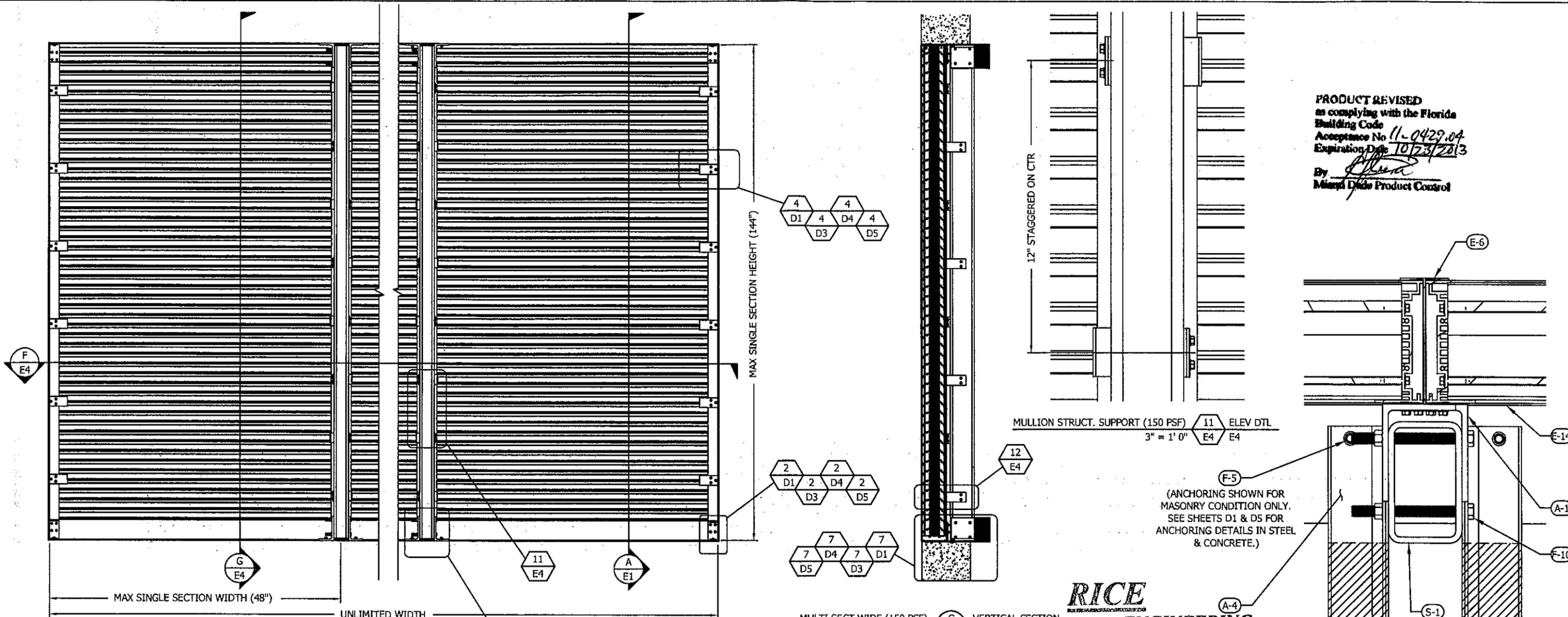
JUN 27 2011

REV. NO.	DESCRIPTION	DATE	DRAWN BY
6	MADE CHG'S PER 6/8/11 LETTER	6/14/11	NW
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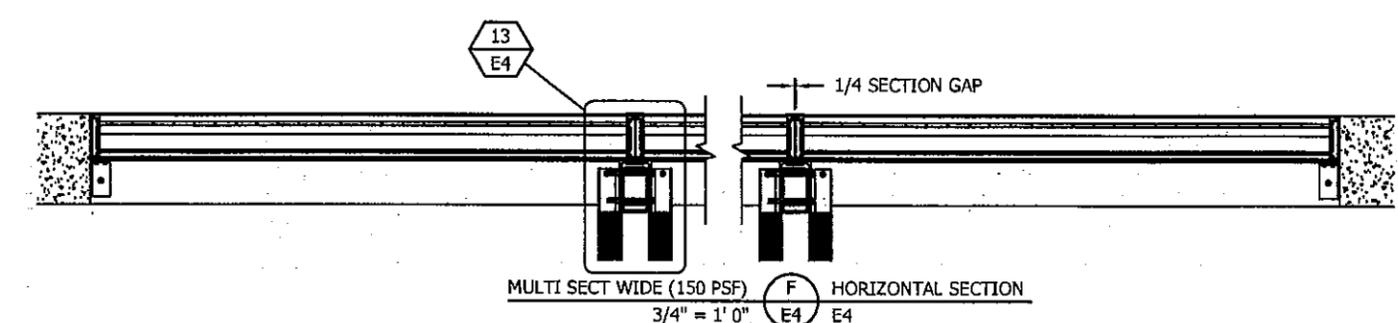
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DRAWING DESC.: SINGLE SECTION HIGH - UNLIMITED WIDTH (80 PSF RATED)				
PROJECT: ECD-545-MD				
LOCATION:				
ARCHITECT:				
CUSTOMER:				
DATE: 12/07/2010	DWN BY: TB	POTTORFF ORDER NO.	CUSTOMER P.O. NO.	DRAWING NO. DC-E3
SCALE: NTS	SHEET: 05 of 17			

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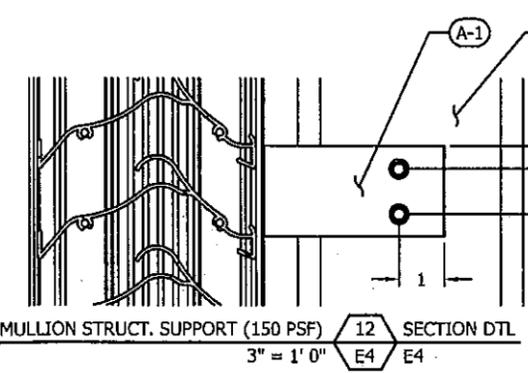


150 PSF INTERIOR ELEVATION
 (MASONRY CONDITION SHOWN FOR REFERENCE ONLY)



MULTI SECT WIDE (150 PSF) 3/4" = 1' 0"

G VERTICAL SECTION E4

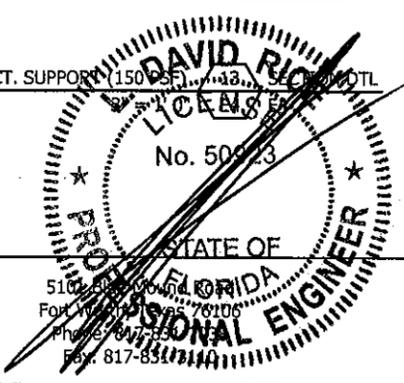


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MULLION STRUCT. SUPPORT (150 PSF) 3" = 1' 0"



NOTE: UNITS REQUIRE AN EXPANDED ALUMINUM SCREEN WITH SCREEN FRAME (E-14) INSTALLED BEHIND THE BLADES.

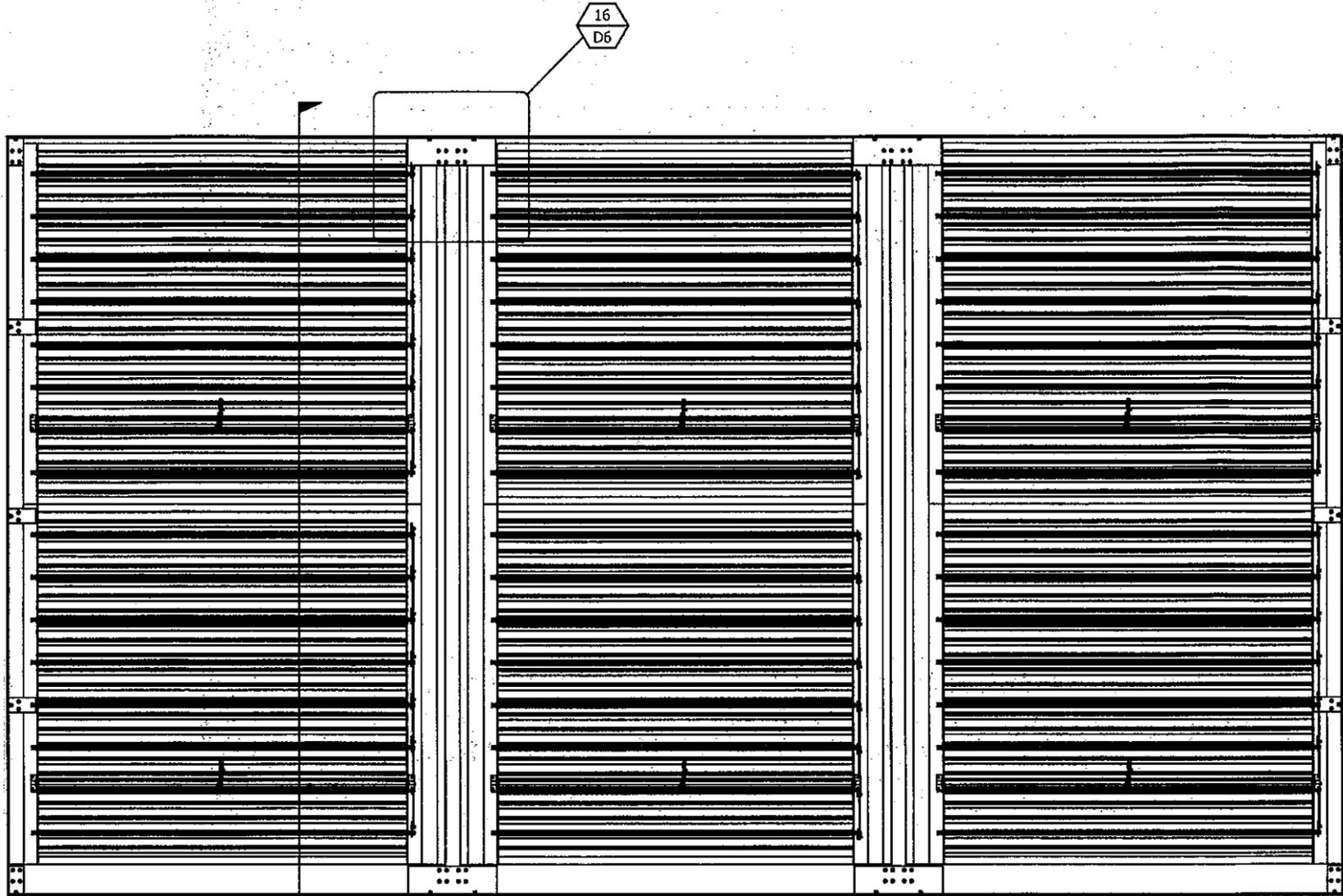
FILE:

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2	CHANGED 48" O.C. TO 34" O.C.	07/29/08	DNG
1	CHANGED 60" O.C. TO 48" O.C.	01/09/08	DNG

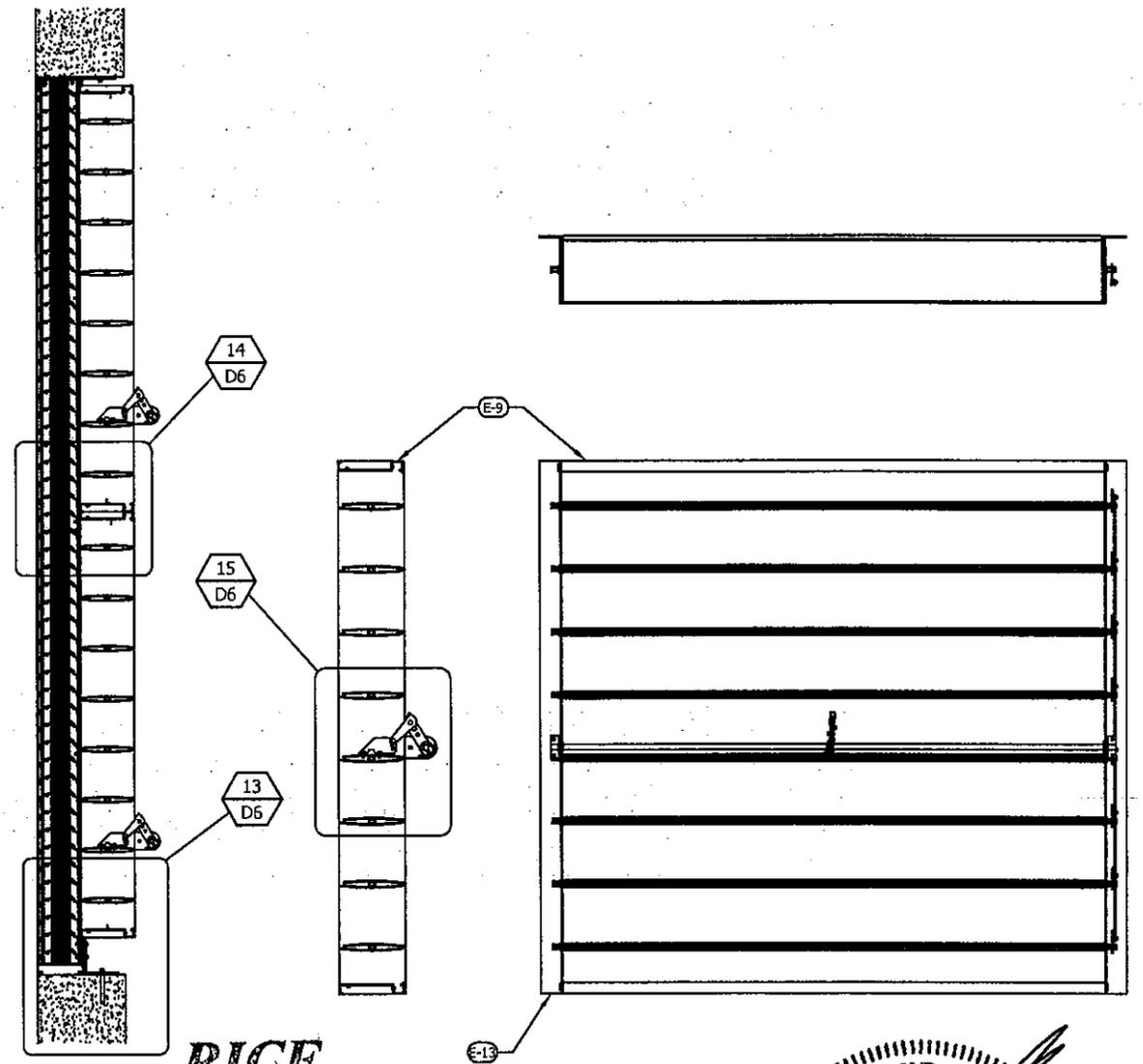
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POTTORFF®				
DRAWING DESC.: SINGLE SECTION HIGH - UNLIMITED WIDE (150 PSF RATED)				
PROJECT: ECD-545-MD				
LOCATION:				
ARCHITECT:				
CUSTOMER:				
DATE: 12/07/2010	DWN BY: TB	POTTORFF ORDER NO.	CUSTOMER P.O. NO.	DRAWING NO. DC-E4
SCALE: NTS	SHEET: 06 of 17			

JUN 27 2011



INTERIOR ELEVATION
(MASONRY CONDITION SHOWN FOR REFERENCE ONLY)

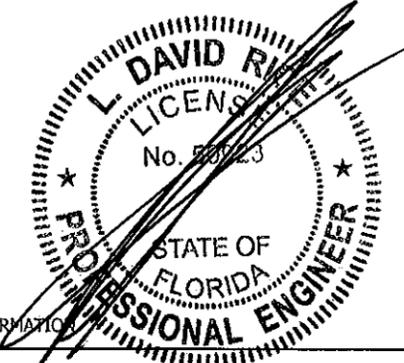


CD-55 DAMPER VERTICAL SECTION
3/4" = 1' 0"

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-01000005081
Certificate of Authorization: #9090
L. David Rice
Registration No: 80923
SEE PAGE E1 - E4 FOR LOUVER ATTACHMENT INFORMATION



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as complying with the Florida
Building Code
Acceptance No 11-0429-04
Expiration Date 10/23/2013
By: [Signature]
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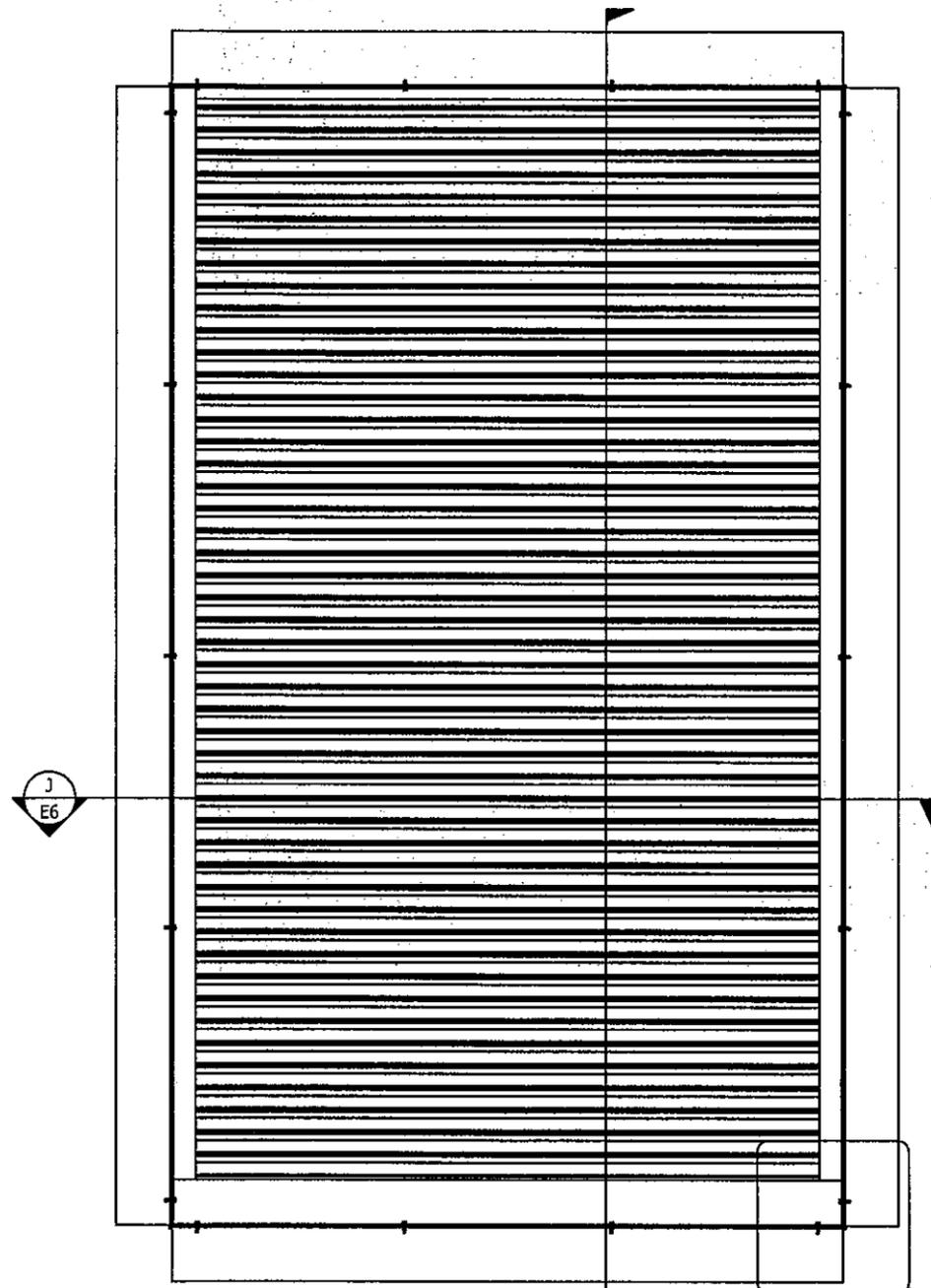
POTTORFF®

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Fort Worth, Texas 76106
Phone: 817-831-7038
Fax: 817-831-3110
JUN 27 2011

DRAWING DESC.: CD-55 DAMPER ATTACHMENT				
PROJECT: ECD-545-MD				
LOCATION:				
ARCHITECT:				
CUSTOMER:				
DATE: 12/07/2010	DWN BY: TB	POTTORFF ORDER NO.	CUSTOMER P.O. NO.	DRAWING NO. DC-E5
SCALE: NTS	SHEET: 07 of 17			

REV. NO.	DESCRIPTION	DATE	DRAWN BY
6	MADE CHG'S PER 6/8/11 LETTER	6/14/11	NW
5	ADDED 150 PSF OPTION	12/07/10	TB
4	FASTENER SPACING PER MIAMI DADE	01/21/10	TB
3	UPDATED WITH CD-55 DAMPER OPTION	09/01/09	DNG
2	CHANGED 48" O.C. TO 34" O.C.	07/29/08	DNG
1	CHANGED 60" O.C. TO 48" O.C.	01/09/08	DNG

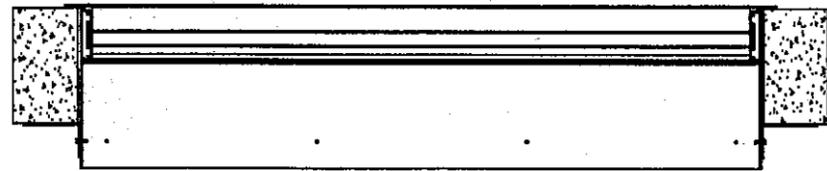
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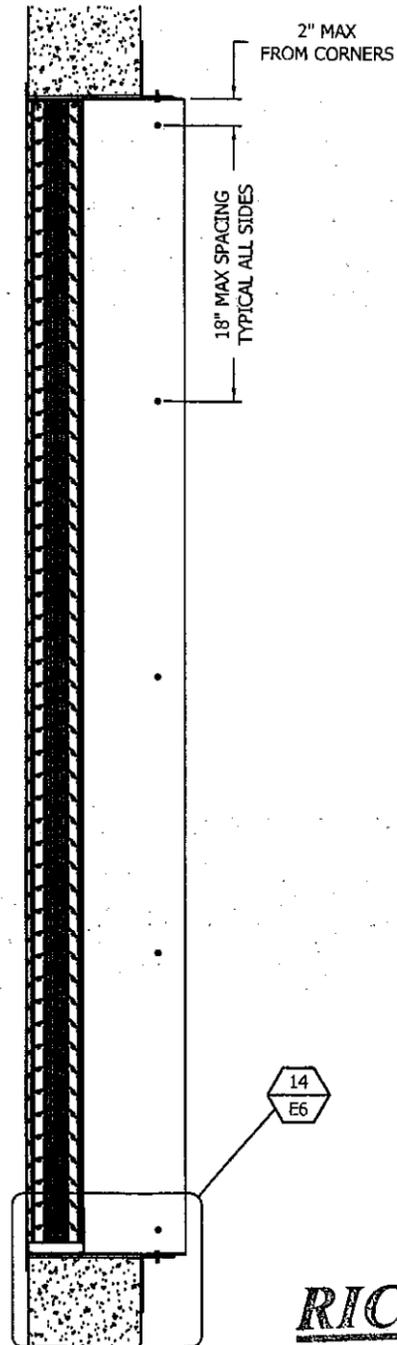
J
E6

K
E6

13
E6



SLEEVE ATTACHMENT **J** 150 PSF ONLY
3/4" = 1' 0" **E6** E6



18" MAX SPACING
TYPICAL ALL SIDES

2" MAX
FROM CORNERS

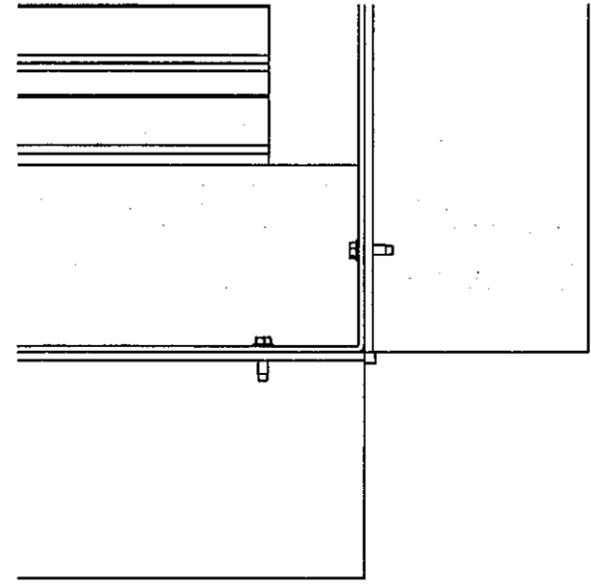
14
E6

SLEEVE ATTACHMENT **K** 150 PSF ONLY
3/4" = 1' 0" **E6** E6

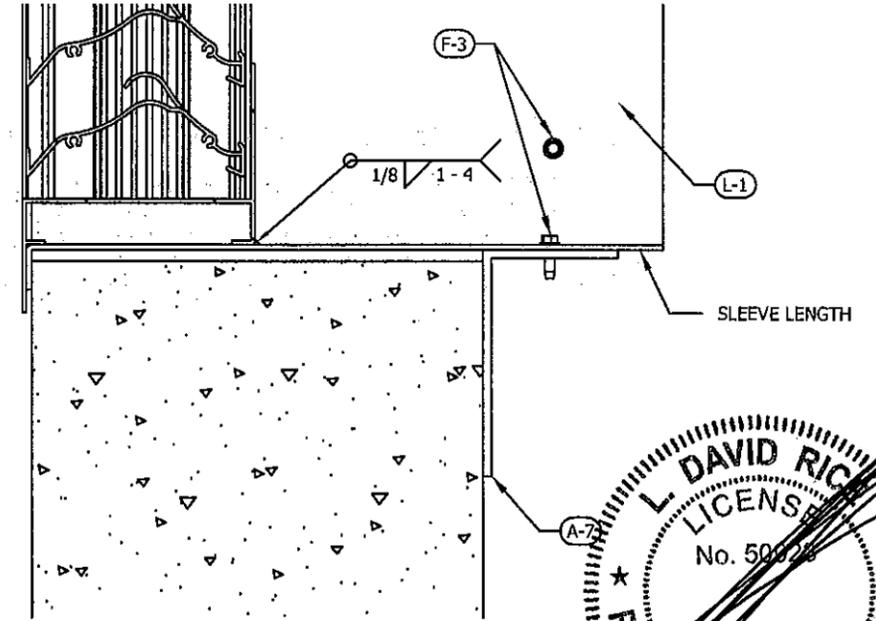
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Fax 920.845.1048
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Florida Firm No: F-01000005061
Certificate of Authorization: #9090
L. David Rice
Registration No: 50923

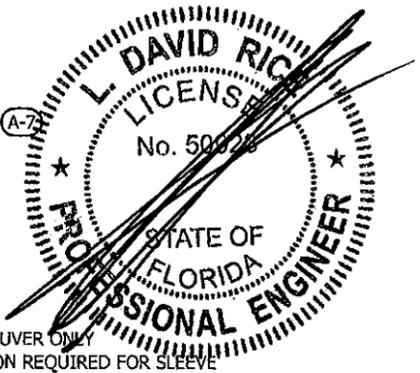


SLEEVE ELEV DTL **13** SLEEVE ATTACHMENT DTL
3" = 1' 0" **E6** E6



SLEEVE SECTION DTL **14** SLEEVE ATTACHMENT DTL
3" = 1' 0" **E6** E6

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Expiration Date 10/23/2013
By *[Signature]*
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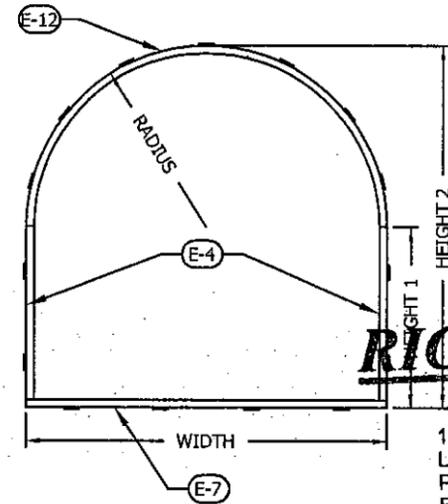
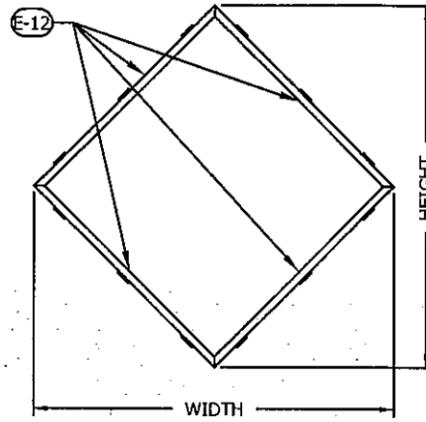
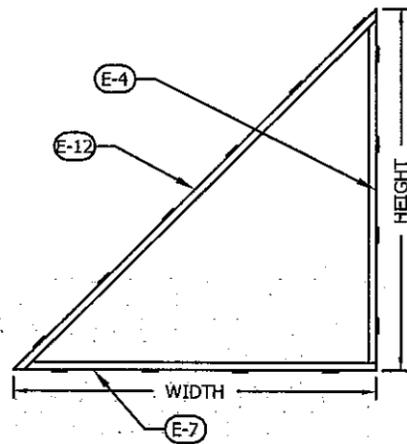
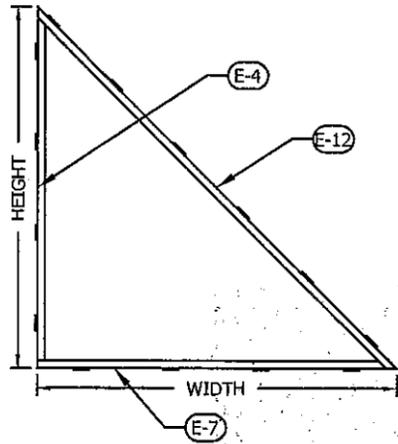
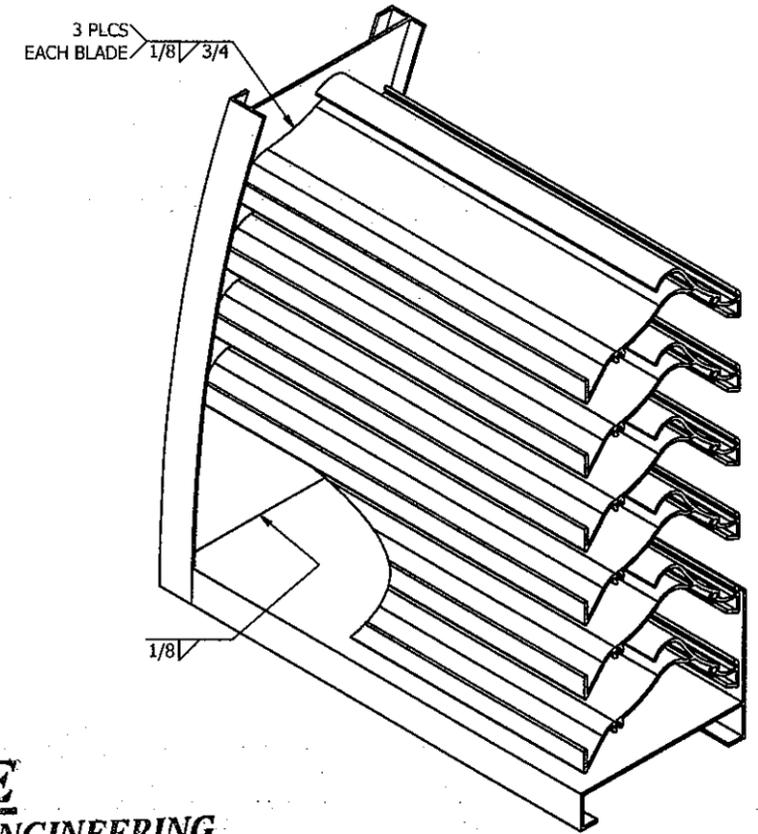
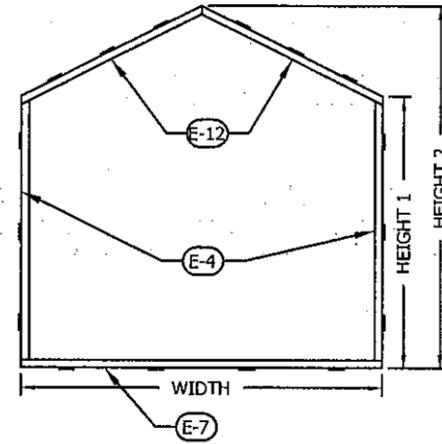
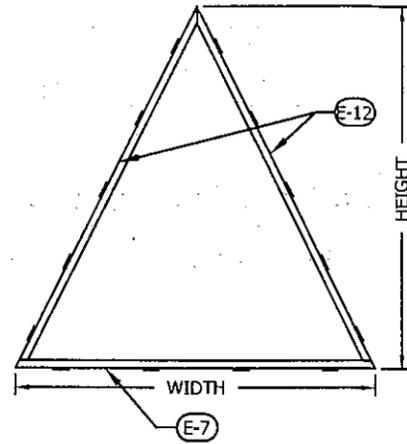
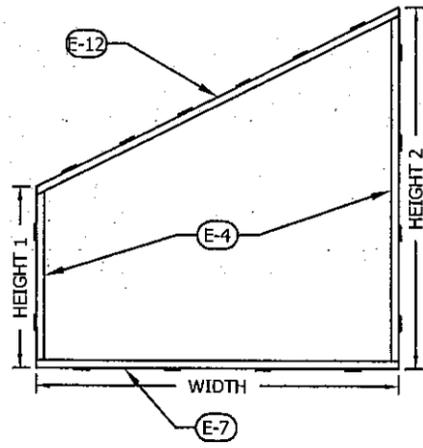
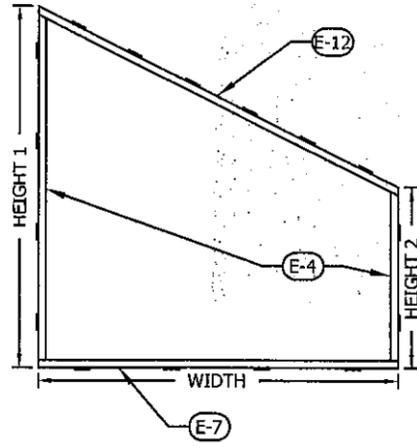
- NOTES:
1) SLEEVED OPTION AVAILABLE ON SINGLE SECTION LOUVER ONLY
2) NO MECHANICAL FASTENING TO BUILDING CONDITION REQUIRED FOR SLEEVE

JUN 27 2011

POTTORFF	5101 Blue Mound Road Fort Worth, Texas 76106 Phone: 817-831-7038 Fax: 817-831-3110			
	DRAWING DESC.: SLEEVED LOUVER DETAILS (150 PSF ONLY)			
PROJECT: ECD-545-MD				
LOCATION:				
ARCHITECT:				
CUSTOMER:				
DATE: 12/07/2010	DWN BY: TB	POTTORFF ORDER NO.	CUSTOMER P.O. NO.	DRAWING NO. DC-E6
SCALE: NTS	SHEET: 08 of 17			

REV. NO.	DESCRIPTION	DATE	DRAWN BY
6	MADE CHG'S PER 6/8/11 LETTER	6/14/11	NW
5	ADDED 150 PSF OPTION	12/07/10	TB
4	FASTENER SPACING PER MIAMI DADE	01/21/10	TB
3	UPDATED WITH CD-55 DAMPER OPTION	09/01/09	DNG
2	CHANGED 48" O.C. TO 34" O.C.	07/29/08	DNG
1	CHANGED 60" O.C. TO 48" O.C.	01/09/08	DNG

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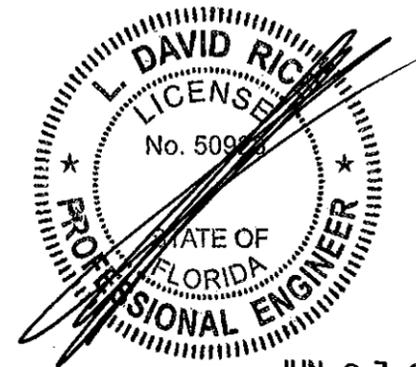
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Building Code
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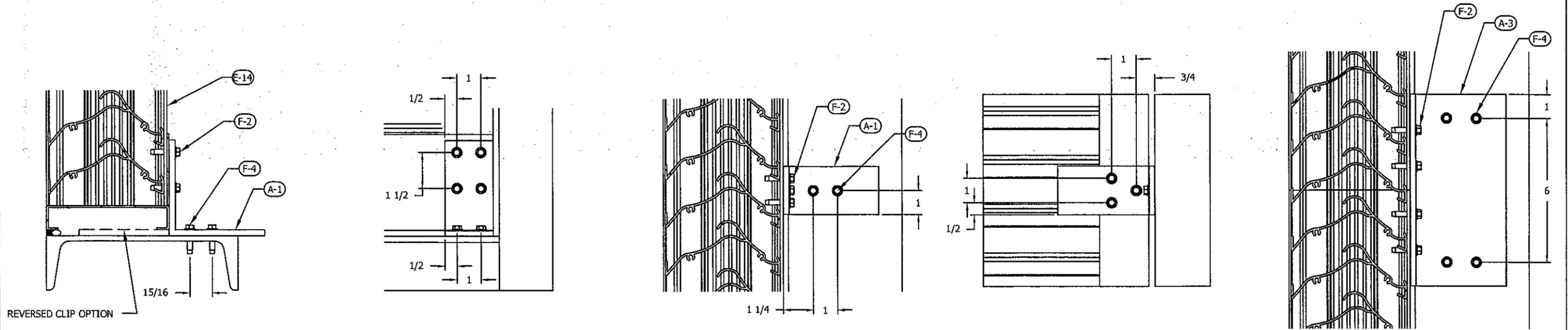
JUN 27 2011

NOTE:
1) SHAPED LOUVER DIMENSIONS WILL NOT EXCEED MAX SINGLE SECTION SIZES
2) SEE TABLE 3, PAGE E1, FOR MAX CLIP SPACING

REV. NO.	DESCRIPTION	DATE	DRAWN BY
6	MADE CHG'S PER 6/8/11 LETTER	6/14/11	NW
5	ADDED 150 PSF OPTION	12/07/10	TB
4	FASTENER SPACING PER MIAMI DADE	01/21/10	TB
3	UPDATED WITH CD-55 DAMPER OPTION	09/01/09	DNG
2	CHANGED 48" O.C. TO 34" O.C.	07/29/08	DNG
1	CHANGED 60" O.C. TO 48" O.C.	01/09/08	DNG

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DRAWING DESC.: SHAPED LOUVER DETAILS				
PROJECT: ECD-545-MD				
LOCATION:				
ARCHITECT:				
CUSTOMER:				
DATE: 12/07/2010	DWN BY: TB	POTTORFF ORDER NO.	CUSTOMER P.O. NO.	DRAWING NO.
SCALE: NTS	SHEET: 09 of 17			DC-E7



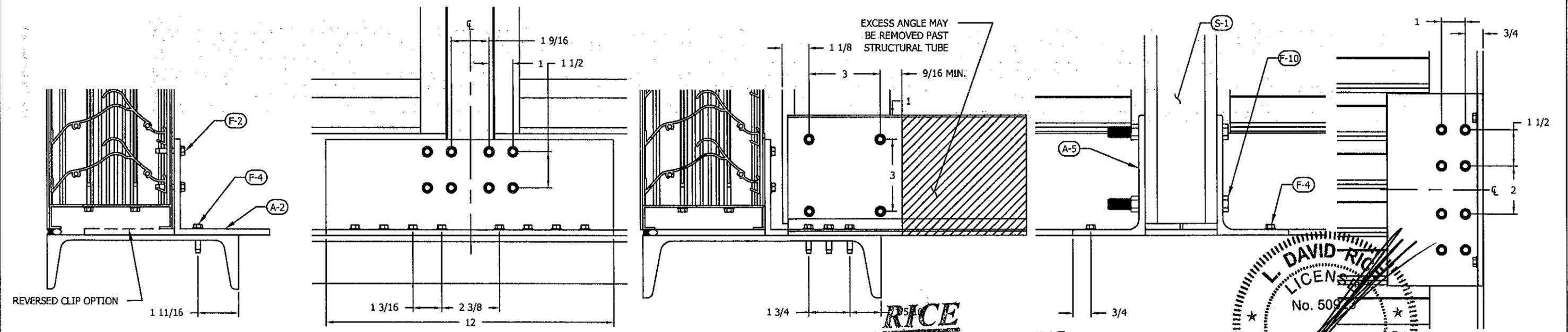
TOP & BTM SECT DTL 1 STEEL CONDITION
3" = 1' 0" D1 E1, E2

TOP & BTM ELEV DTL 2 STEEL CONDITION
3" = 1' 0" D1 E1, E2, E3, E4

JAMB SECT DTL 3 STEEL CONDITION
3" = 1' 0" D1 E1, E2

JAMB ELEV DTL 4 STEEL CONDITION
3" = 1' 0" D1 E1, E2, E3, E4

SPLICE SECT DTL (150 PSF) 9 STEEL CONDITION
3" = 1' 0" D1 E2



MULLION SECT DTL (80 PSF) 5 STEEL CONDITION
3" = 1' 0" D1 E3

MULLION ELEV DTL (80 PSF) 6 STEEL CONDITION
3" = 1' 0" D1 E3

MULLION SECT DTL (150 PSF) 7 STEEL CONDITION
3" = 1' 0" D1 E4

MULLION ELEV DTL (150 PSF) 8 STEEL CONDITION
3" = 1' 0" D1 E4

SPLICE ELEV DTL (80 PSF) 10 STEEL CONDITION
3" = 1' 0" D1 E2

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www.rice-inc.com

L. DAVID RICO
LICENSED PROFESSIONAL ENGINEER
No. 50923
STATE OF FLORIDA

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

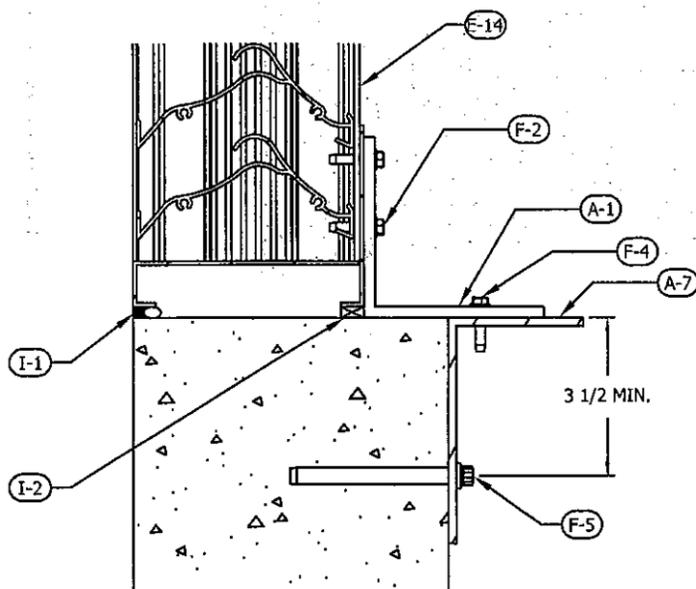
POTTORFF				
DRAWING DESC.: ATTACHMENT DETAILS, STEEL CONDITION, 80 & 150 PSF				
PROJECT: ECD-545-MD				
LOCATION:				
ARCHITECT:				
CUSTOMER:				
DATE: 12/07/2010	DWN BY: TB	POTTORFF ORDER NO.	CUSTOMER P.O. NO.	DRAWING NO.
SCALE: NTS	SHEET: 10 of 17			DC-DI

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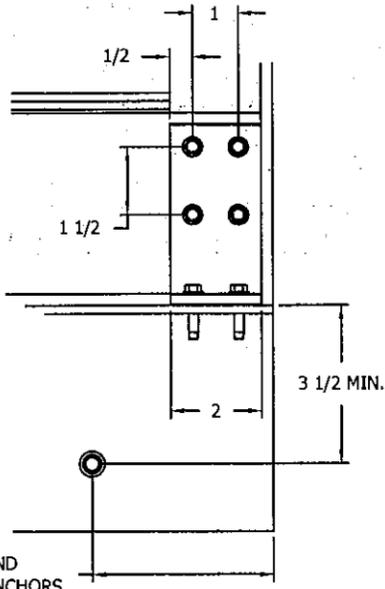
- NOTES:
1) INSTALLER TO PROVIDE GASKET MATERIAL BETWEEN DISSIMILAR METALS FOR SEPARATION
2) MULTIPLE SECTION HIGH LOUVERS TO USE WITH 150 PSF INSTALLATION ONLY

REV. NO.	DESCRIPTION	DATE	DRAWN BY
6	MADE CHG'S PER 6/8/11 LETTER	6/14/11	NW
5	ADDED 150 PSF OPTION	12/07/10	TB
4	FASTENER SPACING PER MIAMI DADE	01/21/10	TB
3	UPDATED WITH CD-55 DAMPER OPTION	09/01/09	DNG
2	CHANGED 48" O.C. TO 34" O.C.	07/29/08	DNG
1	CHANGED 60" O.C. TO 48" O.C.	01/09/08	DNG

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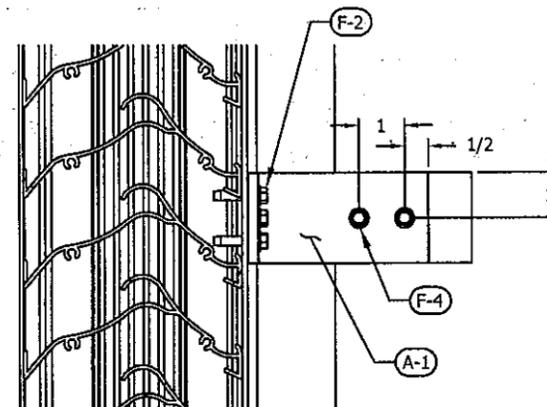


TOP & BTM SECT DTL 1 MASONRY (TENS. CONN, 80 PSF)
3" = 1' 0" D2 E1, E2

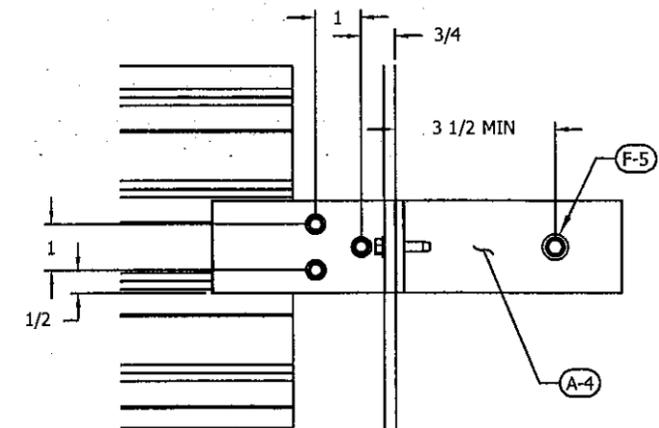


4" MAX FROM EACH END
26" MAX DIST. BETWEEN ANCHORS

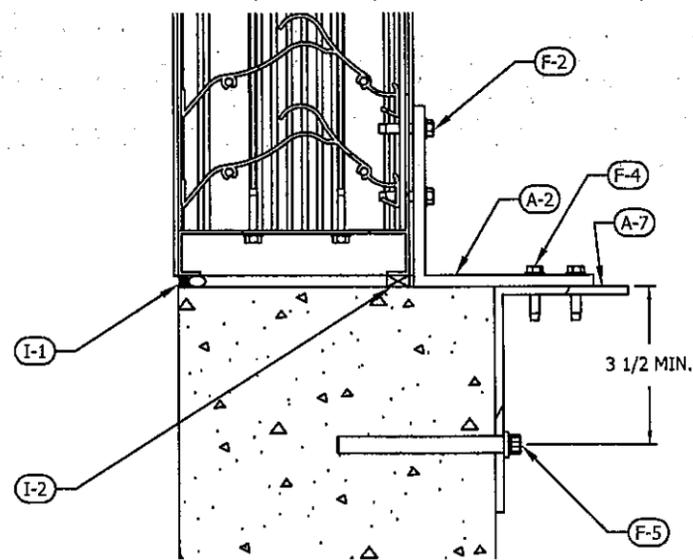
TOP & BTM ELEV DTL 2 MASONRY (TENS. CONN, 80 PSF)
3" = 1' 0" D2 E1, E2, E3, E4



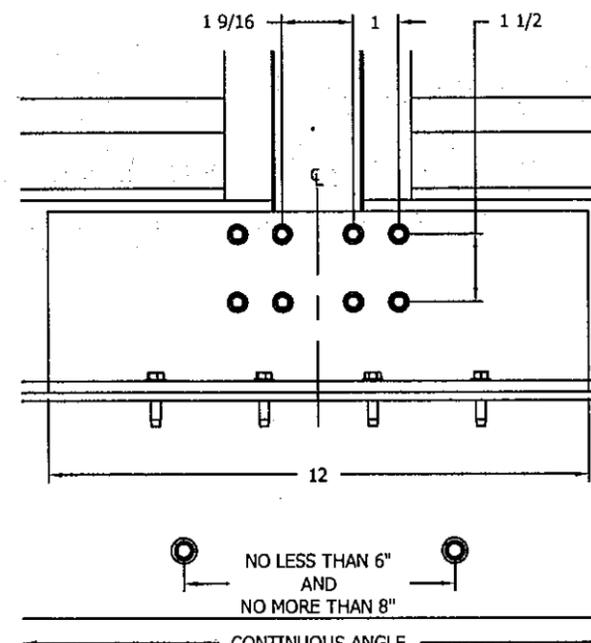
JAMB SECT DTL 3 MASONRY (TENS. CONN, 80 PSF)
3" = 1' 0" D2 E1, E2



JAMB ELEV DTL 4 MASONRY (TENS. CONN, 80 PSF)
3" = 1' 0" D2 E1, E2, E3, E4



MULLION SECT DTL 5 MASONRY (TENS. CONN, 80 PSF)
3" = 1' 0" D2 E3



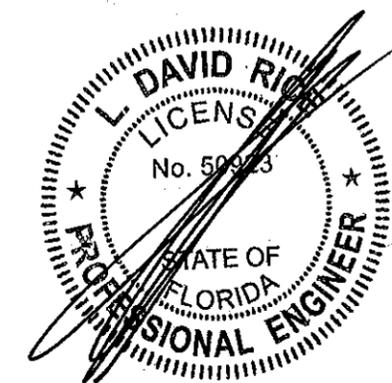
MULLION ELEV DTL 6 MASONRY (TENS. CONN, 80 PSF)
3" = 1' 0" D2 E3

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www.rice-inc.com

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Certificate of Authorization: #9090
L. David Rice
Registration No: 50923

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NOTES:
1) INSTALLER TO PROVIDE GASKET MATERIAL BETWEEN DISSIMILAR METALS FOR SEPARATION

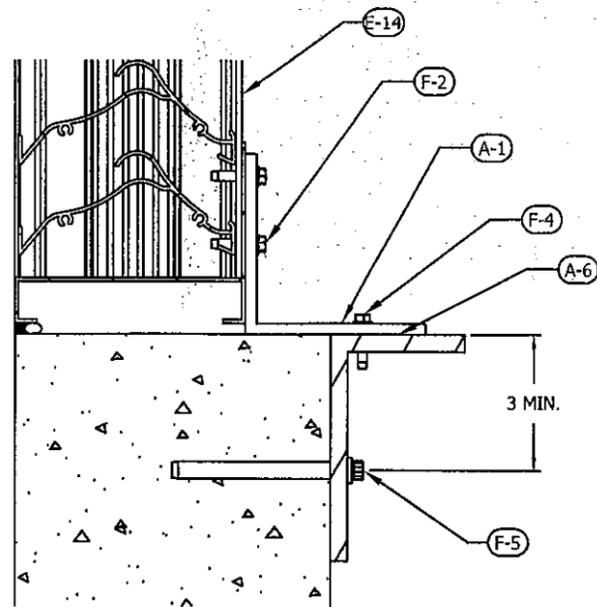
REV. NO.	DESCRIPTION	DATE	DRAWN BY
6	MADE CHG'S PER 6/8/11 LETTER	6/14/11	NW
5	ADDED 150 PSF OPTION	12/07/10	TB
4	FASTENER SPACING PER MIAMI DADE	01/21/10	TB
3	UPDATED WITH CD-55 DAMPER OPTION	09/01/09	DNG
2	CHANGED 48" O.C. TO 34" O.C.	07/29/08	DNG
1	CHANGED 60" O.C. TO 48" O.C.	01/09/08	DNG

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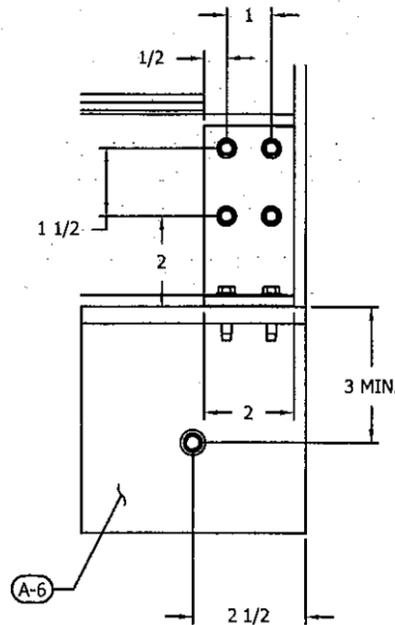
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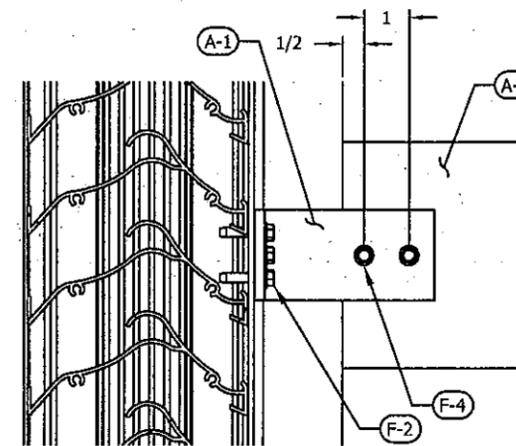
DRAWING DESC.: ATTACHMENT DETAILS, MASONRY CONDITION, TENSION CONNECTION, 80 PSF				
PROJECT: ECD-545-MD				
LOCATION:				
ARCHITECT:				
CUSTOMER:				
DATE: 12/07/2010	DWN BY: TB	POTTORFF ORDER NO.	CUSTOMER P.O. NO.	DRAWING NO.
SCALE: NTS	SHEET: 11 of 17			DC-D2



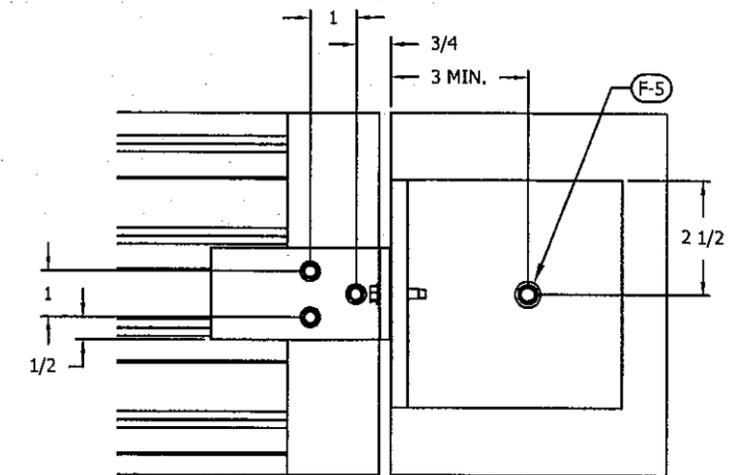
TOP & BTM SECT DTL 1 MASONRY (TENS. CONN., 150 PSF)
3" = 1' 0" D3 E1, E2



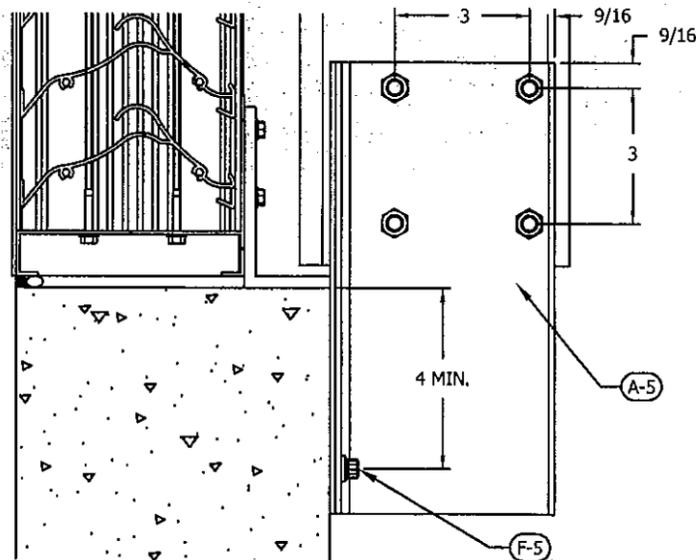
TOP & BTM ELEV DTL 2 MASONRY (TENS. CONN., 150 PSF)
3" = 1' 0" D3 E1, E2, E3, E4



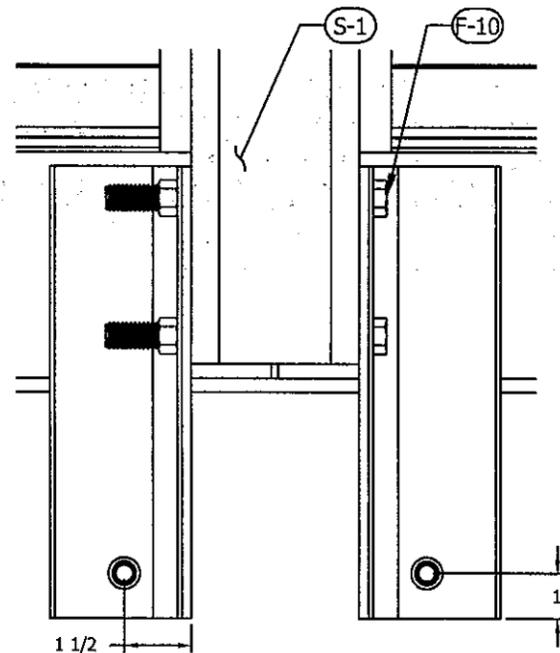
JAMB SECT DTL 3 MASONRY (TENS. CONN., 150 PSF)
3" = 1' 0" D3 E1, E2



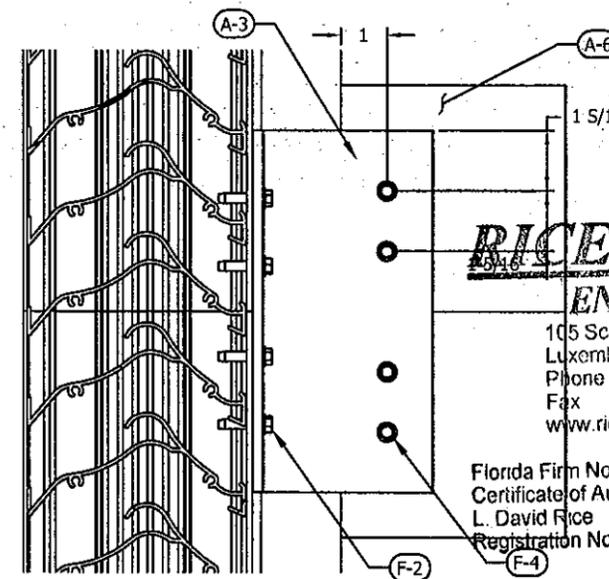
JAMB ELEV DTL 4 MASONRY (TENS. CONN., 150 PSF)
3" = 1' 0" D3 E1, E2, E3, E4



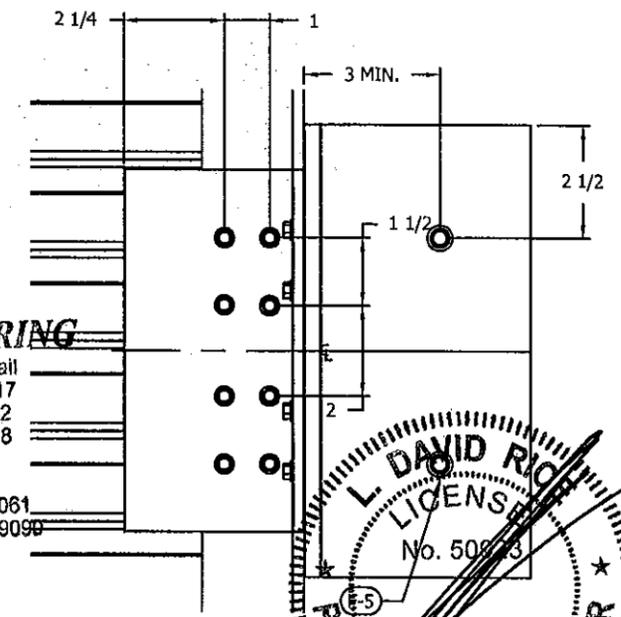
MULLION SECT DTL 7 MASONRY (TENS. CONN., 150 PSF)
3" = 1' 0" D3 E4



MULLION ELEV DTL 8 MASONRY (TENS. CONN., 150 PSF)
3" = 1' 0" D3 E4



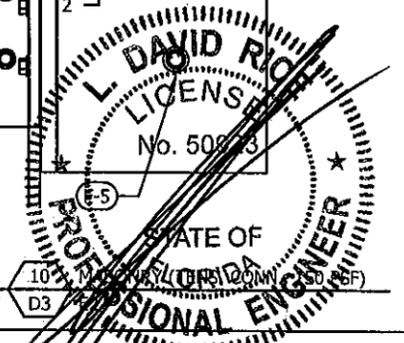
SPLICE SECT DTL 9 MASONRY (TENS. CONN., 150 PSF)
3" = 1' 0" D3 E2



SPLICE ELEV DTL 10 MASONRY (TENS. CONN., 150 PSF)
3" = 1' 0" D3 E2

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Certificate of Authorization: #9098
L. David Rice
Registration No: 50923



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Acceptance No 11-0429-04
Expiration Date 10/23/2013
By *[Signature]*
Miami Dade Product Control

- NOTES:
1) INSTALLER TO PROVIDE GASKET MATERIAL BETWEEN DISSIMILAR METALS FOR SEPARATION
2) 3/8" HILTI KWIK BOLT 3 (F-9) MAY BE USED AS ALTERNATIVE FOR EPOXY ANCHOR (F-5), SEE SHEET 17

REV. NO.	DESCRIPTION	DATE	DRAWN BY
6	MADE CHG'S PER 6/8/11 LETTER	6/14/11	NW
5	ADDED 150 PSF OPTION	12/07/10	TB
4	FASTENER SPACING PER MIAMI DADE	01/21/10	TB
3	UPDATED WITH CD-55 DAMPER OPTION	09/01/09	DNG
2	CHANGED 48" O.C. TO 34" O.C.	07/29/08	DNG
1	CHANGED 60" O.C. TO 48" O.C.	01/09/08	DNG

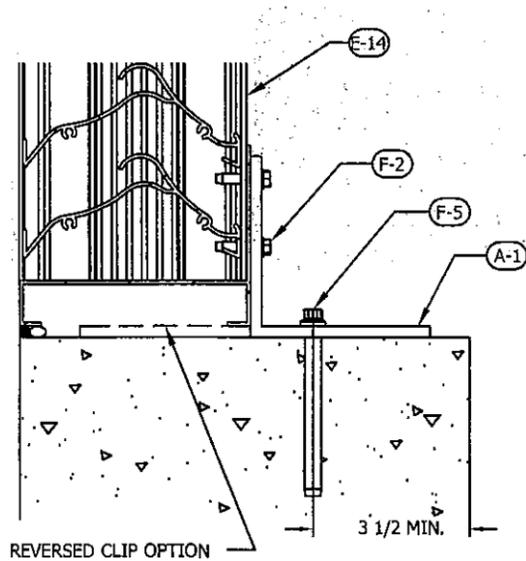
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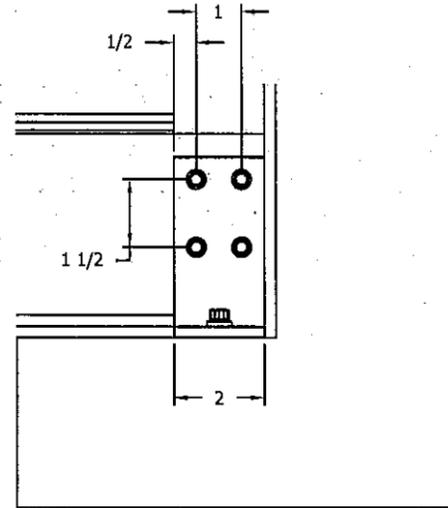
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Fort Worth, Texas 76106
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Fax: 817-831-3110

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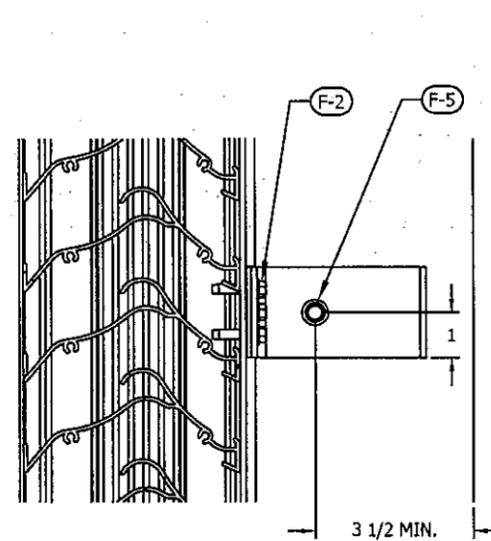
DRAWING DESC.: ATTACHMENT DETAILS, MASONRY CONDITION, TENSION CONNECTION, 150 PSF
PROJECT: ECD-545-MD
LOCATION:
ARCHITECT:
CUSTOMER:
DATE: 12/07/2010 DWN BY: TB POTTORFF ORDER NO. CUSTOMER P.O. NO. DRAWING NO.
SCALE: NTS SHEET: 12 of 17 DC-D3



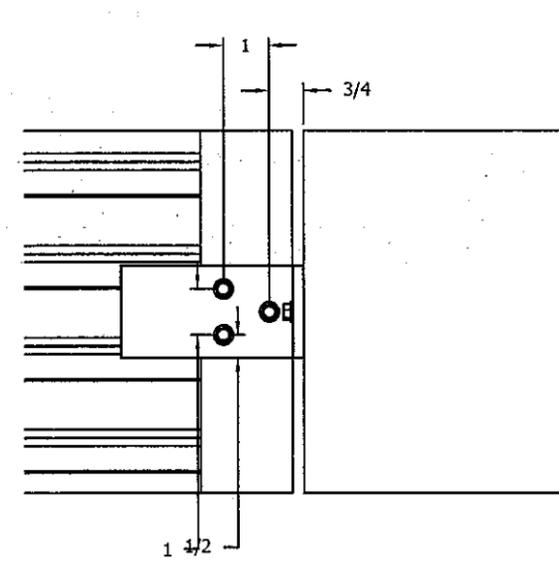
TOP & BTM SECT DTL 1 MASONRY (SHEAR CONN.)
3" = 1' 0" D4 E1, E2



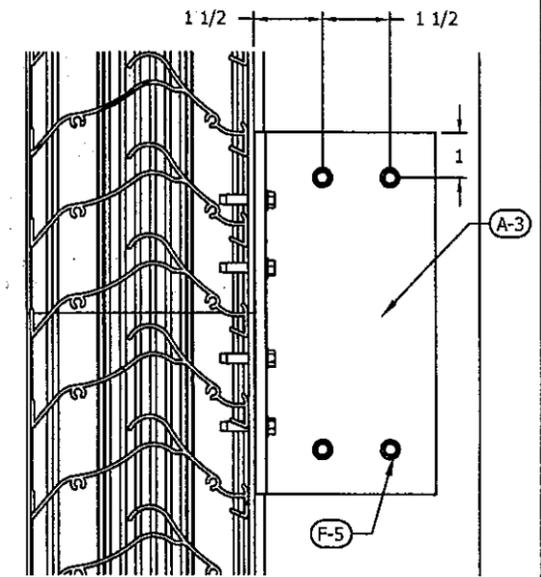
TOP & BTM ELEV DTL 2 MASONRY (SHEAR CONN.)
3" = 1' 0" D4 E1, E2, E3, E4



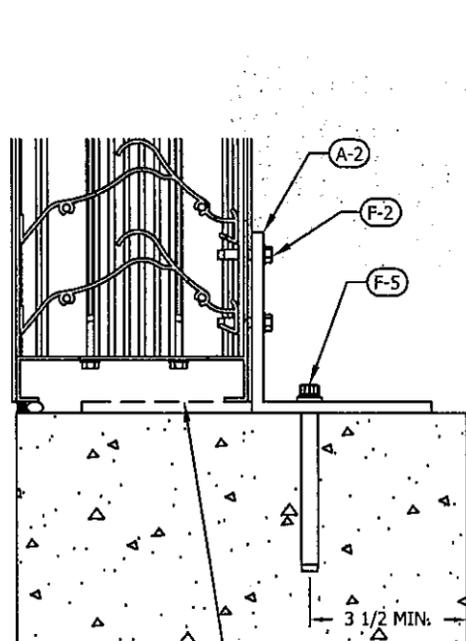
JAMB SECT DTL 3 MASONRY (SHEAR CONN.)
3" = 1' 0" D4 E1, E2



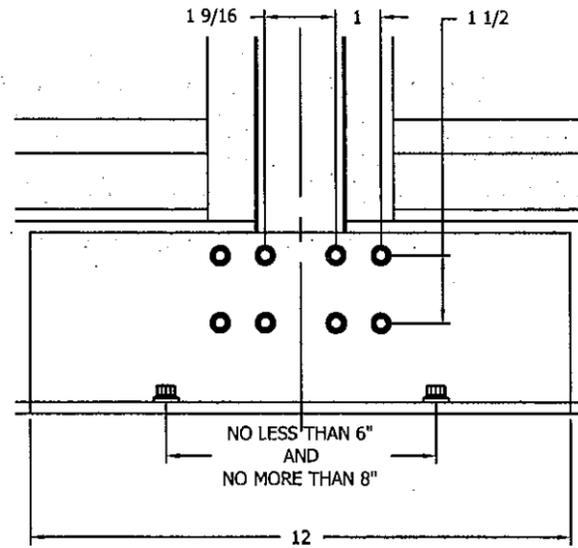
JAMB ELEV DTL 4 MASONRY (SHEAR CONN.)
3" = 1' 0" D4 E1, E2, E3, E4



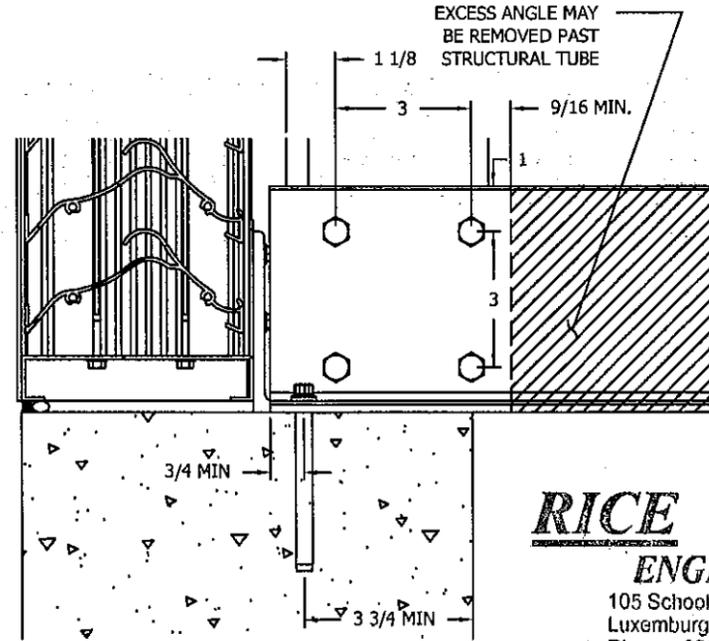
SPLICE SECT DTL (150 PSF) 9 MASONRY (SHEAR CONN.)
3" = 1' 0" D4 E2



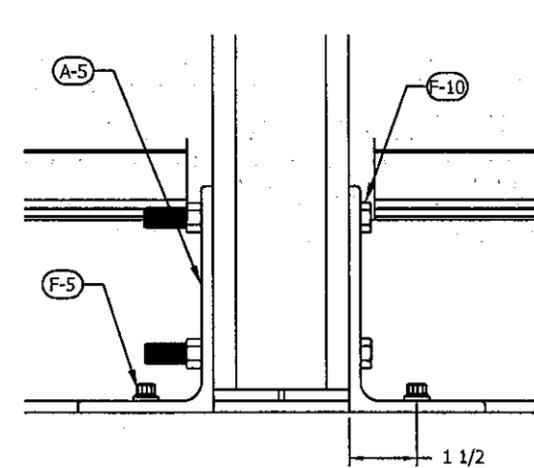
MULLION SECT DTL (80 PSF) 5 MASONRY (SHEAR CONN.)
3" = 1' 0" D4 E3



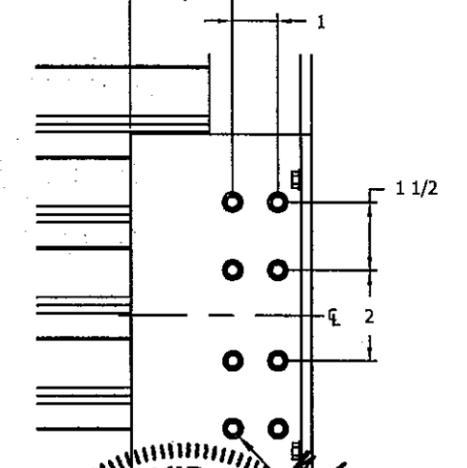
MULLION ELEV DTL (80 PSF) 6 MASONRY (SHEAR CONN.)
3" = 1' 0" D4 E3



MULLION SECT DTL (150 PSF) 7 MASONRY (SHEAR CONN.)
3" = 1' 0" D4 E4



MULLION ELEV DTL (150 PSF) 8 MASONRY (SHEAR CONN.)
3" = 1' 0" D4 E4

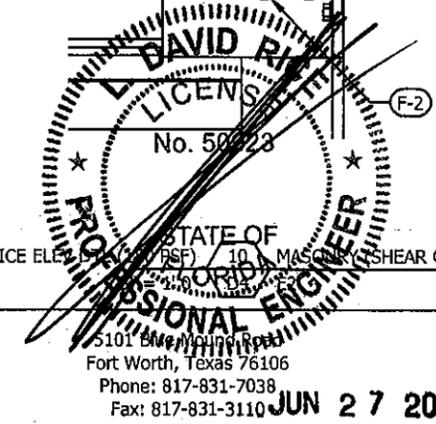


SPLICE ELEV DTL (80 PSF) 10 MASONRY (SHEAR CONN.)
3" = 1' 0" D4 E4

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Certificate of Authorization: #9090
L. David Rice
Registration No: 50923



- NOTES:
1) INSTALLER TO PROVIDE GASKET MATERIAL BETWEEN DISSIMILAR METALS FOR SEPARATION
2) HILTI KWIK BOLT 3 MAY BE USED AS ALTERNATIVE FOR EPOXY ANCHOR (F-5) ON 150 PSF INSTALLATION ONLY, SEE SHEET 17. 1/2" KWIK-BOLT 3 (F-12) REQUIRED FOR SHEAR CONNECTION AT MULLION, 3/8" KWIK BOLT 3 (F-9) EVERYWHERE ELSE.
3) MULTIPLE SECTION HIGH LOUVERS TO USE WITH 150 PSF INSTALLATION ONLY

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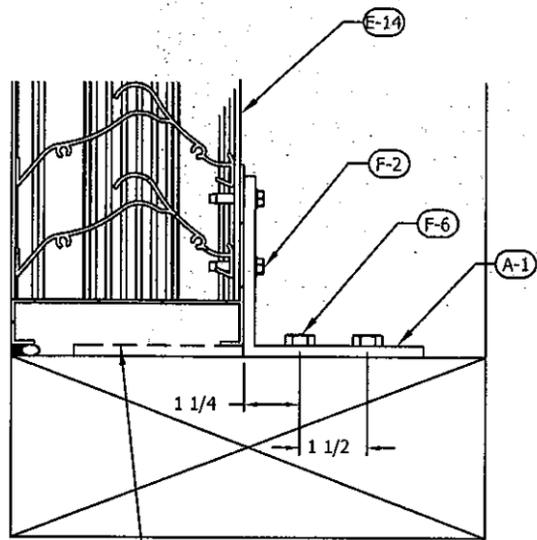
REV. NO.	DESCRIPTION	DATE	DRAWN BY
6	MADE CHG'S PER 6/8/11 LETTER	6/14/11	NW
5	ADDED 150 PSF OPTION	12/07/10	TB
4	FASTENER SPACING PER MIAMI DADE	01/21/10	TB
3	UPDATED WITH CD-55 DAMPER OPTION	09/01/09	DNG
2	CHANGED 48" O.C. TO 34" O.C.	07/29/08	DNG
1	CHANGED 60" O.C. TO 48" O.C.	01/09/08	DNG

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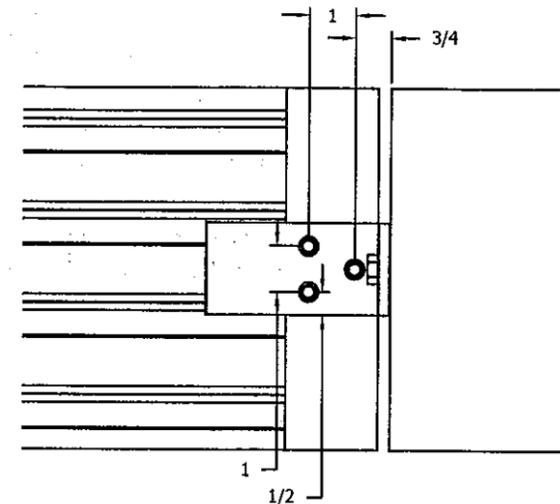
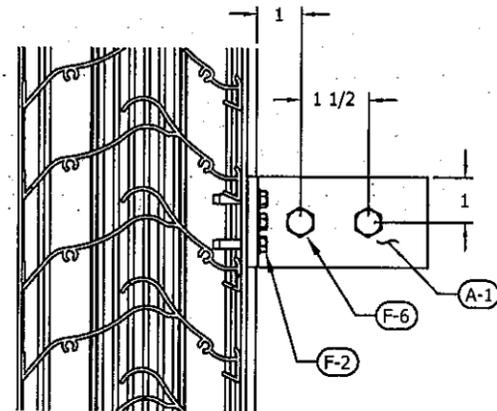
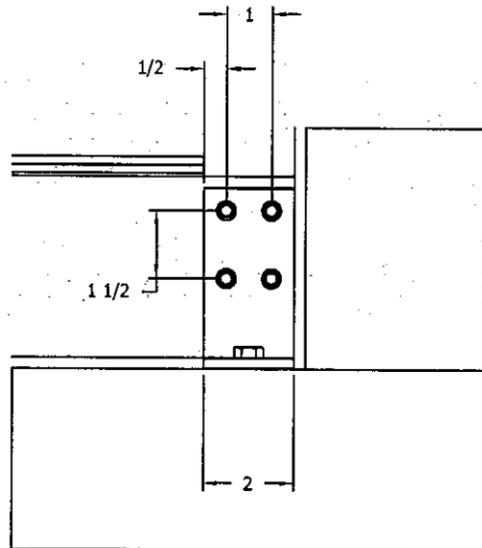
POTTORFF®

DRAWING DESC.: ATTACHMENT DETAILS, MASONRY, SHEAR CONNECTION, 80 & 150 PSF				
PROJECT: ECD-545-MD				
LOCATION:				
ARCHITECT:				
CUSTOMER:				
DATE: 12/07/2010	DWN BY: TB	POTTORFF ORDER NO.	CUSTOMER P.O. NO.	DRAWING NO.
SCALE: NTS	SHEET: 13 of 17			DC-D4

JUN 27 2011



REVERSED CLIP OPTION

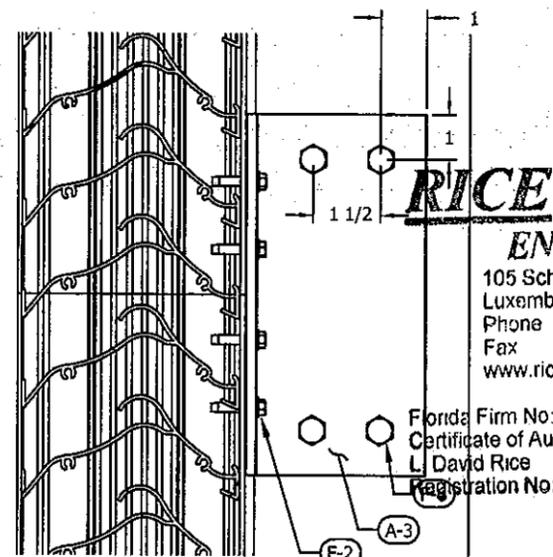
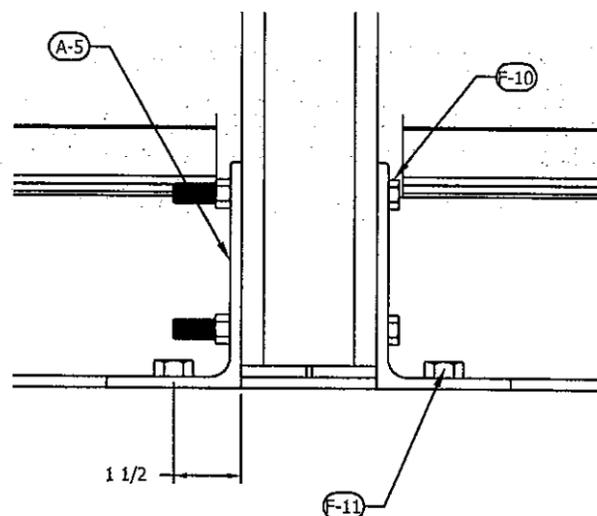
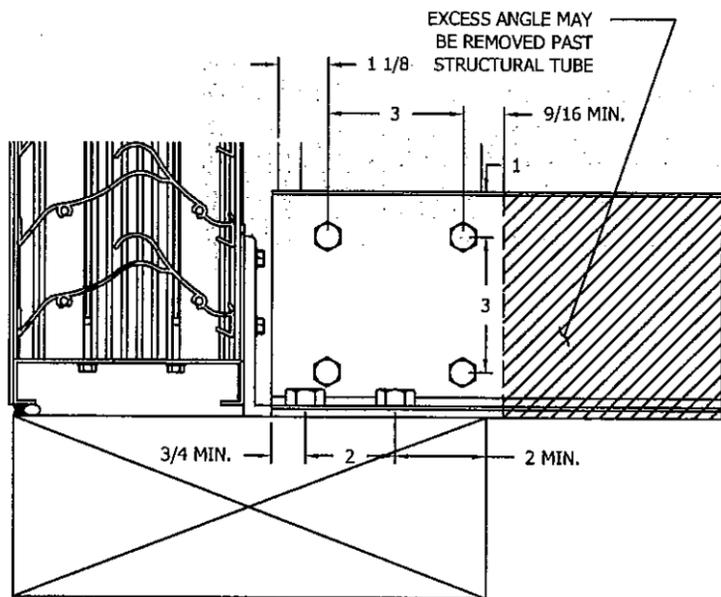


TOP & BTM SECT DTL 1 WOOD COND. (150 PSF ONLY)
3" = 1' 0" D5 E1, E2

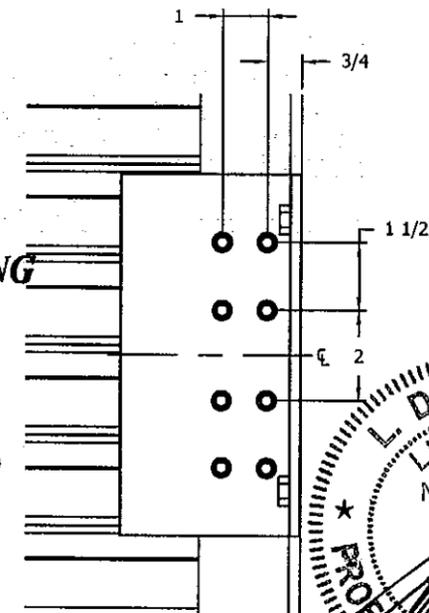
TOP & BTM ELEV DTL 2 WOOD COND. (150 PSF ONLY)
3" = 1' 0" D5 E1, E2, E3, E4

JAMB SECT DTL 3 WOOD COND. (150 PSF ONLY)
3" = 1' 0" D5 E1, E2

JAMB ELEV DTL 4 WOOD COND. (150 PSF ONLY)
3" = 1' 0" D5 E1, E2, E3, E4



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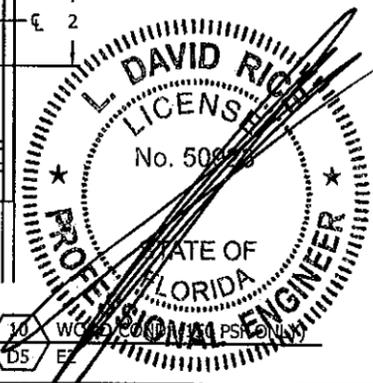


MULLION SECT DTL 7 WOOD COND. (150 PSF ONLY)
3" = 1' 0" D5 E4

MULLION ELEV DTL 8 WOOD COND. (150 PSF ONLY)
3" = 1' 0" D5 E4

SPLICE SECT DTL 9 WOOD COND. (150 PSF ONLY)
3" = 1' 0" D5 E2

SPLICE ELEV DTL 10 WOOD COND. (150 PSF ONLY)
3" = 1' 0" D5 E2



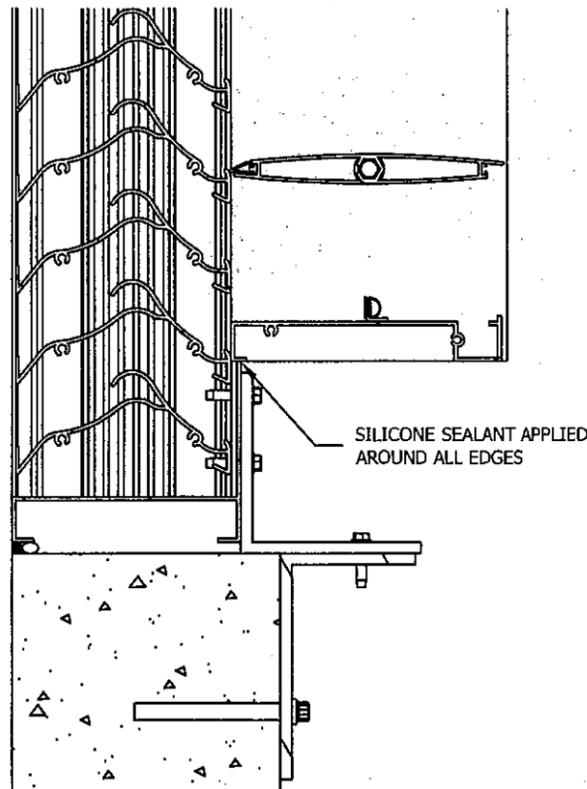
- NOTES:
1) INSTALLER TO PROVIDE GASKET MATERIAL BETWEEN DISSIMILAR METALS FOR SEPARATION
2) WOOD CONDITION TO BE GROUP 3 MINIMUM LUMBER GRADE AS IDENTIFIED BY THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION

REV. NO.	DESCRIPTION	DATE	DRAWN BY
6	MADE CHG'S PER 6/8/11 LETTER	6/14/11	NW
5	ADDED 150 PSF OPTION	12/07/10	TB
4	FASTENER SPACING PER MIAMI DADE	01/21/10	TB
3	UPDATED WITH CD-55 DAMPER OPTION	09/01/09	DNG
2	CHANGED 48" O.C. TO 34" O.C.	07/29/08	DNG
1	CHANGED 60" O.C. TO 48" O.C.	01/09/08	DNG

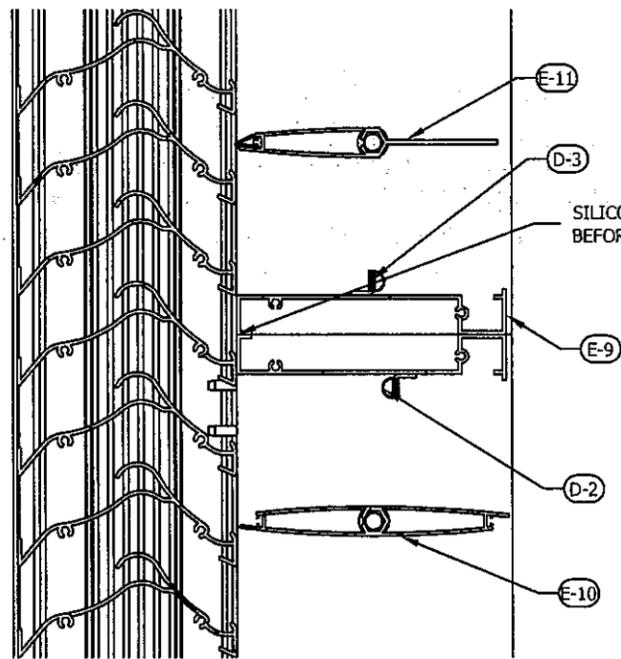
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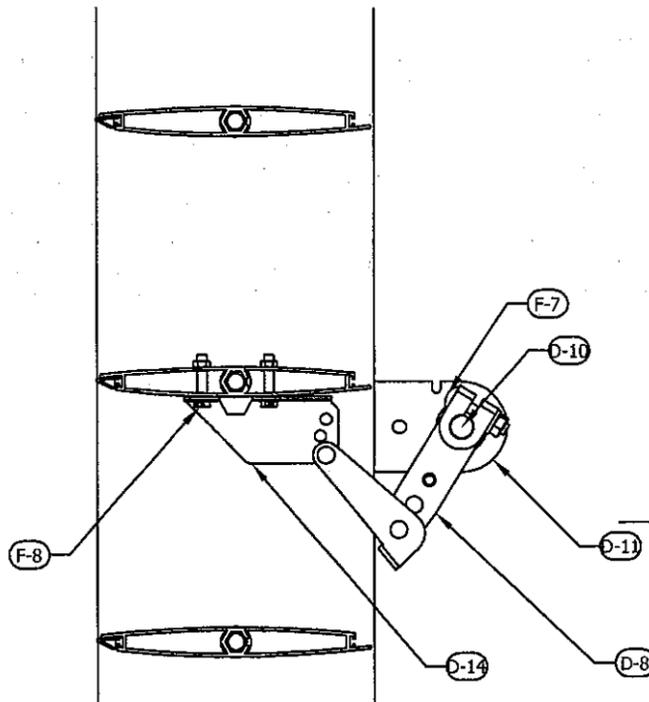
POTTORFF®		5101 Blue Mound Road Fort Worth, Texas 76106 Phone: 817-831-7098 Fax: 817-831-3110		
DRAWING DESC.: ATTACHMENT DETAILS, WOOD CONDITION, 150 PSF ONLY				
PROJECT: ECD-545-MD				
LOCATION:				
ARCHITECT:				
CUSTOMER:				
DATE: 12/07/2010	DWN BY: TB	POTTORFF ORDER NO.	CUSTOMER P.O. NO.	DRAWING NO.
SCALE: NTS	SHEET: 14 of 17			DC-05



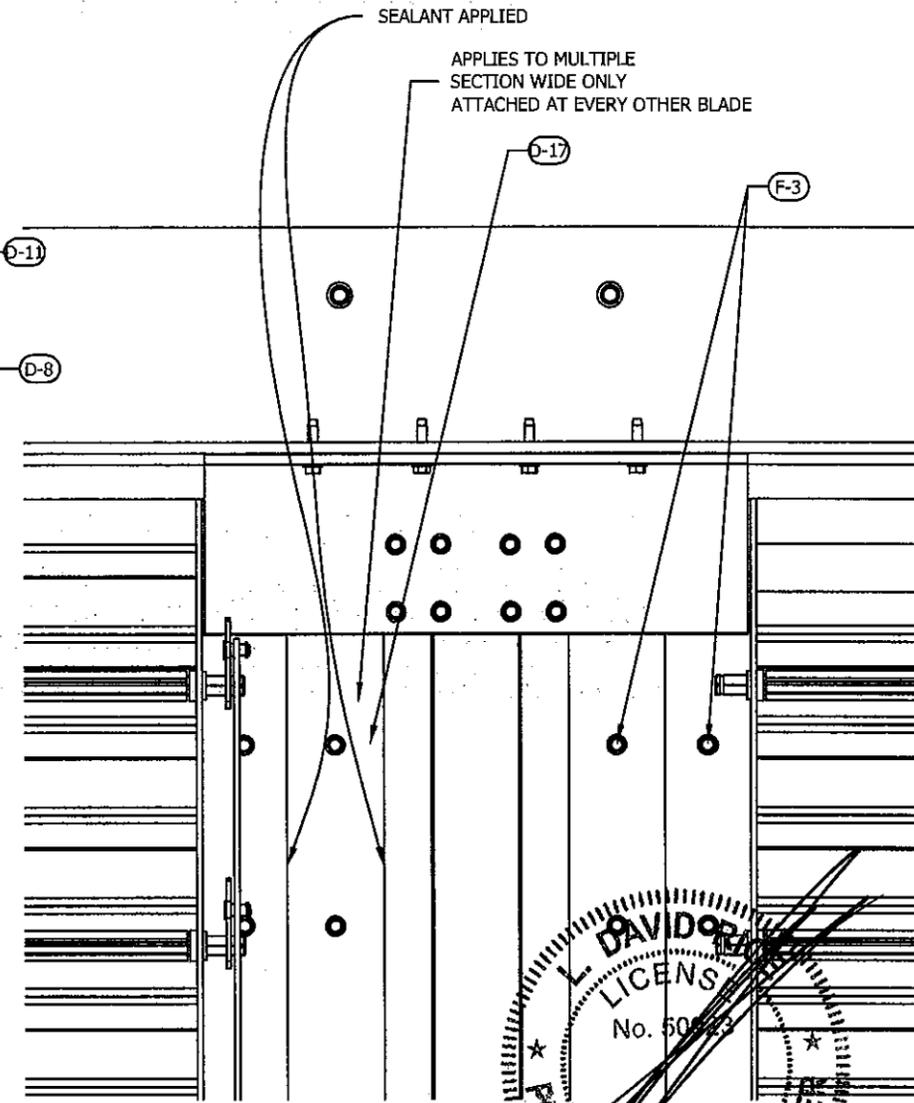
SILL DETAIL 13 CD-55 SECTION DTL
3" = 1' 0" D6 E5



CD-55 MULTI SECT HIGH 14 CD-55 SECTION DTL
3" = 1' 0" D6 E5



CD-55 DRIVE LINKAGE 15 CD-55 SECT DTL
3" = 1' 0" D6 E5

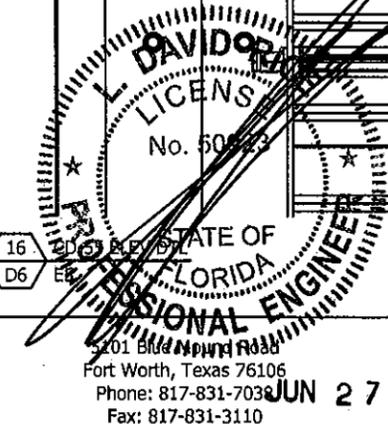


CD-55 MULTI SECT WIDE 16 CD-55 SECTION DTL
3" = 1' 0" D6 E5

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2	CHANGED 48" O.C. TO 34" O.C.	07/29/08	DNG
1	CHANGED 60" O.C. TO 48" O.C.	01/09/08	DNG

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DRAWING DESC.: CD-55 DAMPER DETAILS				
PROJECT: ECD-545-MD				
LOCATION:				
ARCHITECT:				
CUSTOMER:				
DATE: 12/07/2010	DWN BY: TB	POTTORFF ORDER NO.	CUSTOMER P.O. NO.	DRAWING NO.
SCALE: NTS	SHEET: 15 of 17			DC-D6

JUN 27 2011
Fort Worth, Texas 76106
Phone: 817-831-7038
Fax: 817-831-3110

PART #: E-1
 PART NAME: LOUVER HEAD
 MATERIAL: 0.081" THICK 6063-T5
 EXTRUDED ALUMINUM
 SCALE: 3" = 1'-0"

PART #: E-6
 PART NAME: I-MULLION
 MATERIAL: 0.078" THICK 6063-T5
 EXTRUDED ALUMINUM
 SCALE: 3" = 1'-0"

PART #: E-11
 PART NAME: DAMPER AIRFOIL BLADE, HALF
 MATERIAL: 0.070" THICK 6063-T5
 EXTRUDED ALUMINUM
 SCALE: 3" = 1'-0"

PART #: E-2
 PART NAME: LOUVER HEAD, FLANGED
 MATERIAL: 0.081" THICK 6063-T5
 EXTRUDED ALUMINUM
 SCALE: 3" = 1'-0"

PART #: E-7
 PART NAME: LOUVER SILL
 MATERIAL: 0.081" THICK 6063-T5
 EXTRUDED ALUMINUM
 SCALE: 3" = 1'-0"

PART #: E-12
 PART NAME: ROLLFRAME EXTRUSION
 MATERIAL: 0.081" THICK 6063-T5
 EXTRUDED ALUMINUM
 SCALE: 3" = 1'-0"

PART #: E-3
 PART NAME: LOUVER BLADE
 MATERIAL: 0.081" THICK 6063-T5
 EXTRUDED ALUMINUM
 SCALE: 3" = 1'-0"

PART #: E-8
 PART NAME: LOUVER SILL, FLANGED
 MATERIAL: 0.081" THICK 6063-T5
 EXTRUDED ALUMINUM
 SCALE: 3" = 1'-0"

PART #: E-13
 PART NAME: EXTRUDED ALUMINUM ANGLE
 MATERIAL: 6 1/8" x 2" x 1/8" 6063-T5
 EXTRUDED ALUMINUM
 SCALE: 3" = 1'-0"

PART #: E-4
 PART NAME: LOUVER JAMB
 MATERIAL: 0.125" THICK 6063-T5
 EXTRUDED ALUMINUM
 SCALE: 3" = 1'-0"

PART #: E-9
 PART NAME: DAMPER SILL
 MATERIAL: 0.081" THICK 6063-T5
 EXTRUDED ALUMINUM
 SCALE: 3" = 1'-0"

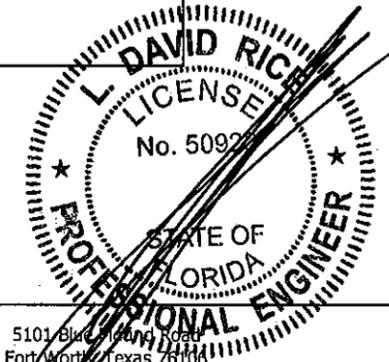
PART #: L-1
 PART NAME: SLEEVE
 MATERIAL: 0.125" THICK 5052-H32
 SHEET ALUMINUM
 SCALE: 3" = 1'-0"

PART #: E-5
 PART NAME: LOUVER JAMB, FLANGED
 MATERIAL: 0.125" THICK 6063-T5
 EXTRUDED ALUMINUM
 SCALE: 3" = 1'-0"

PART #: E-10
 PART NAME: DAMPER AIRFOIL BLADE, FULL
 MATERIAL: 0.070" THICK 6063-T5
 EXTRUDED ALUMINUM
 SCALE: 3" = 1'-0"

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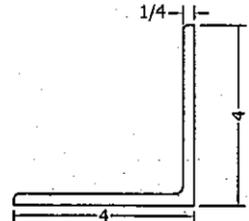
DRAWING DESC.: BILL OF MATERIALS				
PROJECT: ECD-545-MD				
LOCATION:				
ARCHITECT:				
CUSTOMER:				
DATE: 12/07/2010	DWN BY: TB	POTTORFF ORDER NO.	CUSTOMER P.O. NO.	DRAWING NO.
SCALE: N/A	SHEET: 16 of 17			DC-BI

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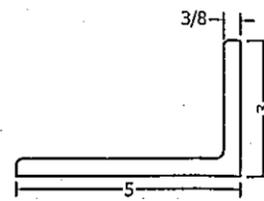
REV. NO.	DESCRIPTION	DATE	DRAWN BY
6	MADE CHG'S PER 6/8/11 LETTER	6/14/11	NW
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1	CHANGED 60" O.C. TO 48" O.C.	01/09/08	DNG

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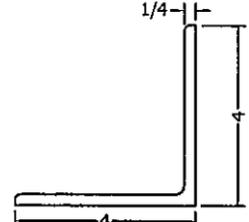
PART #: A-1
 PART NAME: CLIP ANGLE
 MATERIAL: 4" x 4" x 1/4" x 2"L 6061-T6
 EXTRUDED ALUMINUM
 SCALE: 3" = 1'-0"



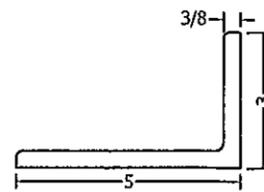
PART #: A-5
 PART NAME: STRUCTURAL ANGLE, LONG
 MATERIAL: 5" x 3" x 3/8" x 10"L 6061-T6
 EXTRUDED ALUMINUM
 SCALE: 3" = 1'-0"



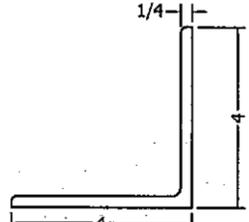
PART #: A-2
 PART NAME: MULLION CLIP ANGLE
 MATERIAL: 4" x 4" x 1/4" x 12"L 6061-T6
 EXTRUDED ALUMINUM
 SCALE: 3" = 1'-0"



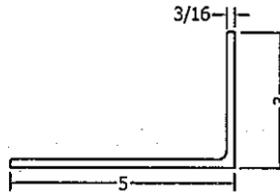
PART #: A-6
 PART NAME: STRUCTURAL ANGLE, SHORT
 MATERIAL: 5" x 3" x 3/8" x 5"L 6061-T6
 EXTRUDED ALUMINUM
 SCALE: 3" = 1'-0"



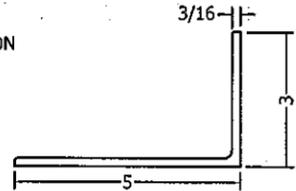
PART #: A-3
 PART NAME: SPLICE ANGLE
 MATERIAL: 4" x 4" x 1/4" x 8"L 6061-T6
 EXTRUDED ALUMINUM
 SCALE: 3" = 1'-0"



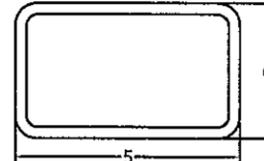
PART #: A-7
 PART NAME: CONTINUOUS ANGLE
 MATERIAL: 5" x 3" x 3/16" 6063-T5
 EXTRUDED ALUMINUM
 SCALE: 3" = 1'-0"



PART #: A-4
 PART NAME: INTERMEDIATE JAMB CONDITION
 CLIP ANGLE
 MATERIAL: 5" x 3" x 3/16" x 2"L 6063-T5
 EXTRUDED ALUMINUM
 SCALE: 3" = 1'-0"



PART #: S-1
 PART NAME: TUBE SUPPORT BY OTHERS
 MATERIAL: 5" x 3" x 1/4" ASTM A36
 STRUCTURAL TUBE STEEL
 SCALE: 3" = 1'-0"



MISC. FASTENERS	
PART #	DESCRIPTION
F-1	#10-24 X 3/4"L, 410 S.S., 'F' POINT THREAD-CUTTING MACHINE SCREW, BRIGHT HARDENED, PASSIVATED & WAXED, MADE IN U.S.A.
F-2	#12-24 X 1"L, 410 S.S., 'F' POINT THREAD-CUTTING MACHINE SCREW, BRIGHT HARDENED, PASSIVATED & WAXED, MADE IN U.S.A.
F-3	#10-24 X 3/4"L, 410 S.S., SELF-DRILLING TEK MACHINE SCREW
F-4	#12-24 x 1"L, 410 S.S., SELF-DRILLING TEK MACHINE SCREW
F-5	Ø3/8" x 3/8"L HILTI HIT HY 150 EPOXY INJECTED ADHESIVE ANCHOR W/ 5 1/8"L S.S. HAS ROD, EMBEDMENT DEPTH OF 3 1/2"
F-6	3/8- x 2 1/2" STEEL LAG BOLT, ZINC PLATED W/ STEEL FLAT WASHER, ZINC PLATED
F-7	5/16-18 1 1/4" L ROUND HEAD, SQUARE NECK BOLT & 5/16-18 FLANGED HEX NUT
F-8	1/4-20 x 1 1/4" L HEX HEAD BOLT & 1/4-20 HEX NUT
F-9	Ø3/8" x 5"L S.S. HILTI KWIK-BOLT 3, EMBEDMENT DEPTH OF 3 1/2"
F-10	3/8-16 x 5" L S.S. HEX HEAD BOLT & 3/8-16 HEX NUT
F-11	1/2- x 3 1/2" STEEL LAG BOLT, ZINC PLATED W/ STEEL FLAT WASHER, ZINC PLATED
F-12	Ø1/2" x 4 1/2"L S.S. HILTI KWIK-BOLT 3, EMBEDMENT DEPTH OF 3 1/2"

MISC. DAMPER PARTS		
PART #	DESCRIPTION	MATERIAL
D-1	BLADE SEAL	PVC
D-2	STOP SEAL	PVC
D-3	BLADE STOP, 14 GA. FORMED ALUMINUM	0.063" ALUMINUM
D-4	HEX AXLE, 304 SST	304 SST
D-5	HEX BUSHING,	OIL IMPREGNATED SST
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	STEEL
D-13	JACKSHAFT SPRING CLIP	SPRING STEEL
D-14	BLADE BRACKET	14 GA. SST
D-15	PIN	304 SST
D-16	E-RING	ZINC PLATED STEEL
D-17	MULTI-SECTION COVER PLATE	0.125" ALUMINUM

INSTALLATION NOTES	
PART #	DESCRIPTION
I-1	SEALANT AND BACKER ROD PROVIDED BY INSTALLER (TYP)
I-2	SHIM AS REQUIRED TO MAKE LEVEL AND PLUMB. PROVIDED BY INSTALLER (TYP)

SCREEN & FRAME	
PART #	DESCRIPTION
E-14	SCREEN FRAME, 0.065" THICK, 6063-T5 EXTRUDED ALUMINUM W/ 1/2" x 0.050" EXPANDED ALUMINUM BIRD SCREEN

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 11-0429.04
 Expiration Date 10/23/2013
 By *[Signature]*
 Miami Dade Product Control

REV. NO.	DESCRIPTION	DATE	DRAWN BY
6	MADE CHG'S PER 6/8/11 LETTER	6/14/11	NW
5	ADDED 150 PSF OPTION	12/07/10	TB
4	FASTENER SPACING PER MIAMI DADE	01/21/10	TB
3	UPDATED WITH CD-55 DAMPER OPTION	09/01/09	DNG
2	CHANGED 48" O.C. TO 34" O.C.	07/29/08	DNG
1	CHANGED 60" O.C. TO 48" O.C.	01/09/08	DNG

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 Certificate of Authorization: #9090
 L. David Rice
 Registration No: 50923

POTTORFF®

5101 Blue Mountain
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JUN 27 2011

DRAWING DESC.: BILL OF MATERIALS
 PROJECT: ECD-545-MD
 LOCATION:
 ARCHITECT:
 CUSTOMER:
 DATE: 12/07/2010 DWN BY: TB POTTORFF ORDER NO. CUSTOMER P.O. NO. DRAWING NO.
 SCALE: N/A SHEET: 17 of 17 DC-B2

