



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY
AFFAIRS (PERA)
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/pera/

NOTICE OF ACCEPTANCE (NOA)

Ruskin Company
3900 Dr. Greaves Road
Grandview, MO 64030

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 PERA -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. PERA 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 EME6625D Aluminum Louver with optional CD-50 Damper

APPROVAL DOCUMENT: Drawing No. **60-021563-00D/01D, 02B-04B, 05D-08D, 09B-27B, 28D-37D**, titled "EME6625D & CD50", sheets 1 through 38 of 38, prepared by Ruskin Company, dated 03/16/1998, 11/22/1996, 04/13/1998, 10/15/1998, 03/02/2007 and 06/04/2010, with last revision H dated 12/08/2011, signed and sealed by William J. Mossie, 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, model/series, 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 # 11-1229.04 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

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



[Handwritten Signature]
08/30/2012

NOA No. 12-0628.06
Expiration Date: January 28, 2017
Approval Date: September 6, 2012
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS “Submitted under NOA # 11-1229.04”

1. Drawing No. **60-021563-00D/01D, 02B-04B, 05D-08D, 09B-27B, 28D-37D**, titled “EME6625D & CD50”, sheets 1 through 38 of 38, prepared by Ruskin Company, dated 03/16/1998, 11/22/1996, 04/13/1998, 10/15/1998, 03/02/2007 and 06/04/2010, with last revision H dated 12/08/2011, signed and sealed by William J. Mossie, P.E.

B. TESTS “Submitted under NOA # 06-1205.08”

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 marked-up drawings and installation diagram of Model EME6625D 6” Aluminum Louvers, prepared by National Certified Testing Laboratories, Report No. **210-3359-1**, dated 11/27/2006, signed and sealed by Gerald J. Ferrara, P.E.
2. Test Report on Wind Driven Rain Resistance per TAS 100(A)-95 of a vertical blade louver Model EME6625D with CD50 Damper, prepared by Architectural Testing Report No. **64940.01-109-44**, dated 06/23/2006, signed and sealed by Steven M. Ulrich, P.E.
3. Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test "Aluminum Louver Assemblies with Damper", prepared by Construction Research Laboratories, Inc., Test Report No. **6496**, dated 05/13/1998, signed and sealed by N.S. Balsara, P.E.
4. Test Report on Large Missile Impact Test, Cyclic Wind Pressure Test “Aluminum Louver Assembly with Damper”, prepared by Construction Research Laboratories, Inc., Test Report No. **6550**, dated 12/09/1998, signed and sealed by N.S. Balsara, P.E.

C. CALCULATIONS “Submitted under NOA # 06-1205.08”

1. EME6625D alternate attachment method, prepared by Ruskin Company, dated 10/18/2010, signed and sealed by Daniel J. Rau, P.E.
2. Louver/Damper Blade & Mullion Calculations, dated 05/11/1998, pages 1 to 7 of 7 with appendix A, prepared by R. E. Beason II, signed and sealed by E. P. Hutson Jr., P.E.
3. Louver/Damper Blade & Mullion Calculations, dated 10/20/1998, pages 1 to 7 of 7, with appendix A, prepared by R. E. Beason II, signed and sealed by E. P. Hutson Jr., P.E.



Carlos M. Utrera, P.E.

Product Control Examiner

NOA No. 12-0628.06

Expiration Date: January 28, 2017

Approval Date: September 6, 2012

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

D. QUALITY ASSURANCE

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA)

E. MATERIAL CERTIFICATIONS

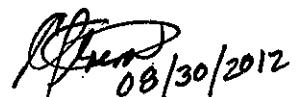
1. Test report on impact test of a vertical blade louver per AMCA 540, prepared by Ruskin Company, dated 05/31/2012, signed and sealed by Daniel J. Rau, P.E.

F. STATEMENTS

1. Statement letter of code conformance to 2010 FBC, issued by Ruskin Company, dated 06/13/2012, signed and sealed by Daniel J. Rau, P.E.

“Submitted under NOA # 11-1229.04”

2. Statement letter of no financial interest issued by Ruskin Company, dated 12/15/2011, signed and sealed by William J. Mossie, P.E.



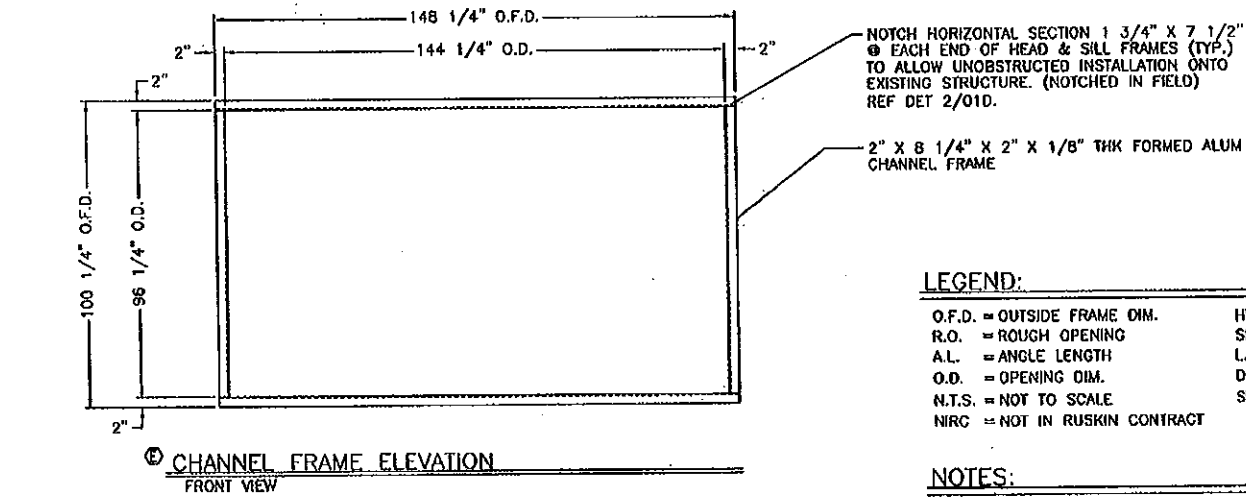
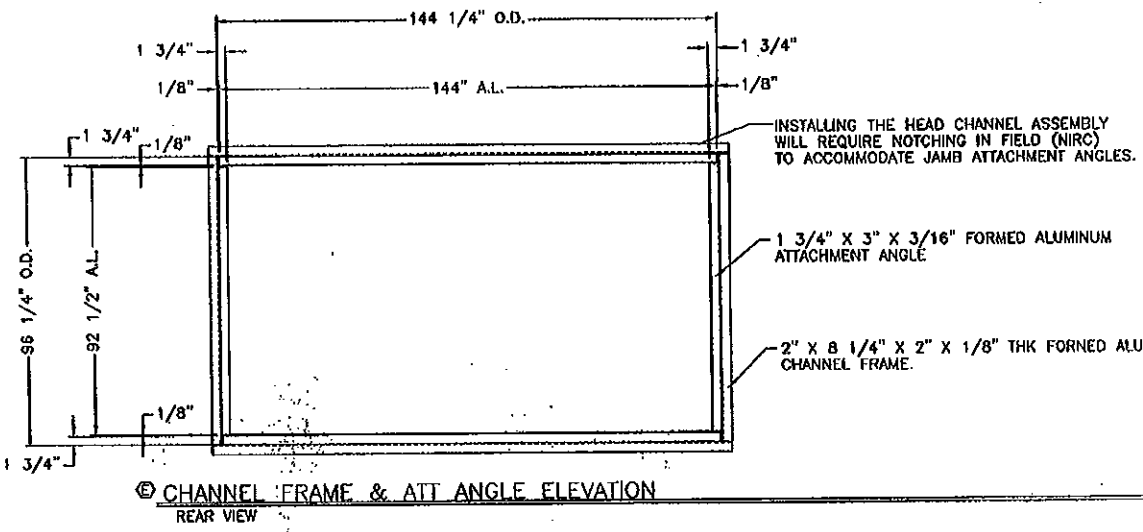
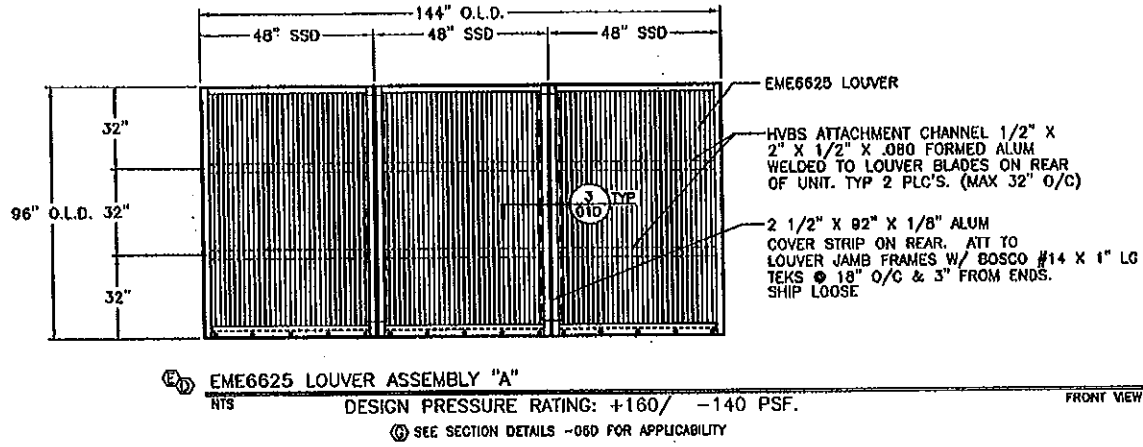
Carlos M. Utrera, P.E.

Product Control Examiner

NOA No. 12-0628.06

Expiration Date: January 28, 2017

Approval Date: September 6, 2012



1 REAR & FRONT ELEVATIONS VIEW OF CHANNEL FRAME & ATT. ANGLE
 N.T.S.

SHEET INDEX:

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| 1. EME6625D & CD50 ASSEMBLIES AND SECTIONS | 18. 7/8" HEX AXLE | 33. EME6625D LOUVER CLIP ANGLE INSTALLATION DETAILS |
| 2. EME6625D & CD50 ASSEMBLIES AND SECTIONS | 19. 1/2" HEX IDLER AXLE | 34. EME6625D LOUVER CLIP ANGLE INSTALLATION DETAILS |
| 3. EME6625D MOISTURE BLADE | 20. JAMB SEAL | 35. EME6625D LOUVER ALTERNATE ATTACHMENT TABLES |
| 4. EME6625D HEAD FRAME | 21. LINKAGE TIE BAR | 36. EME6625D LOUVER ALTERNATE ATTACHMENT DETAILS |
| 5. EME6625D SILL FRAME | 22. CONCEALED LINKAGE OVER-TRAVEL STOP | 37. EME6625D LOUVER ALTERNATE ATTACHMENT DETAILS |
| 6. EME6625D & CD50 ASSEMBLIES AND SECTIONS | 23. CRANK PIN | 38. EME6625D LOUVER ALTERNATE ATTACHMENT DETAILS |
| 7. EME6625D & CD50 FASTENER LOADS | 24. HAND QUAD CD50 DAMPER | |
| 8. CD50 ASSEMBLY WITH INTERNAL HAND QUAD | 25. AIRFOIL BLADE BRACKET | |
| 9. CD50 STANDARD DAMPER ASSEMBLY | 26. HAND QUAD ARM | |
| 10. CD50 TOP AND BOTTOM FRAME | 27. U-BOLT | |
| 11. CD50 SIDE FRAME | 28. HAND QUADRANT PLATE | |
| 12. CD50 BLADE | 29. EME6625D LOUVER ASSEMBLIES AND SECTIONS | |
| 13. ALUM FRAME CORNER CLIP | 30. EME6625D TEST LOUVERS - ROUND SHAPES | |
| 14. CONTROL DAMPER BLADE SEAL | 31. EME6625D TEST LOUVERS - ROUND SHAPES | |
| 15. BEARING AXLE .370 LONG W/ .120" FLANGE | 32. EME6625D LOUVER, SPEC. ASSY & NOTES CLIP ANGLE INSTALLATION | |
| 16. F-SIDE LINKAGE CRANK ARM ASSEMBLY | | |
| 17. CONCEALED LINKAGE PLATE | | |

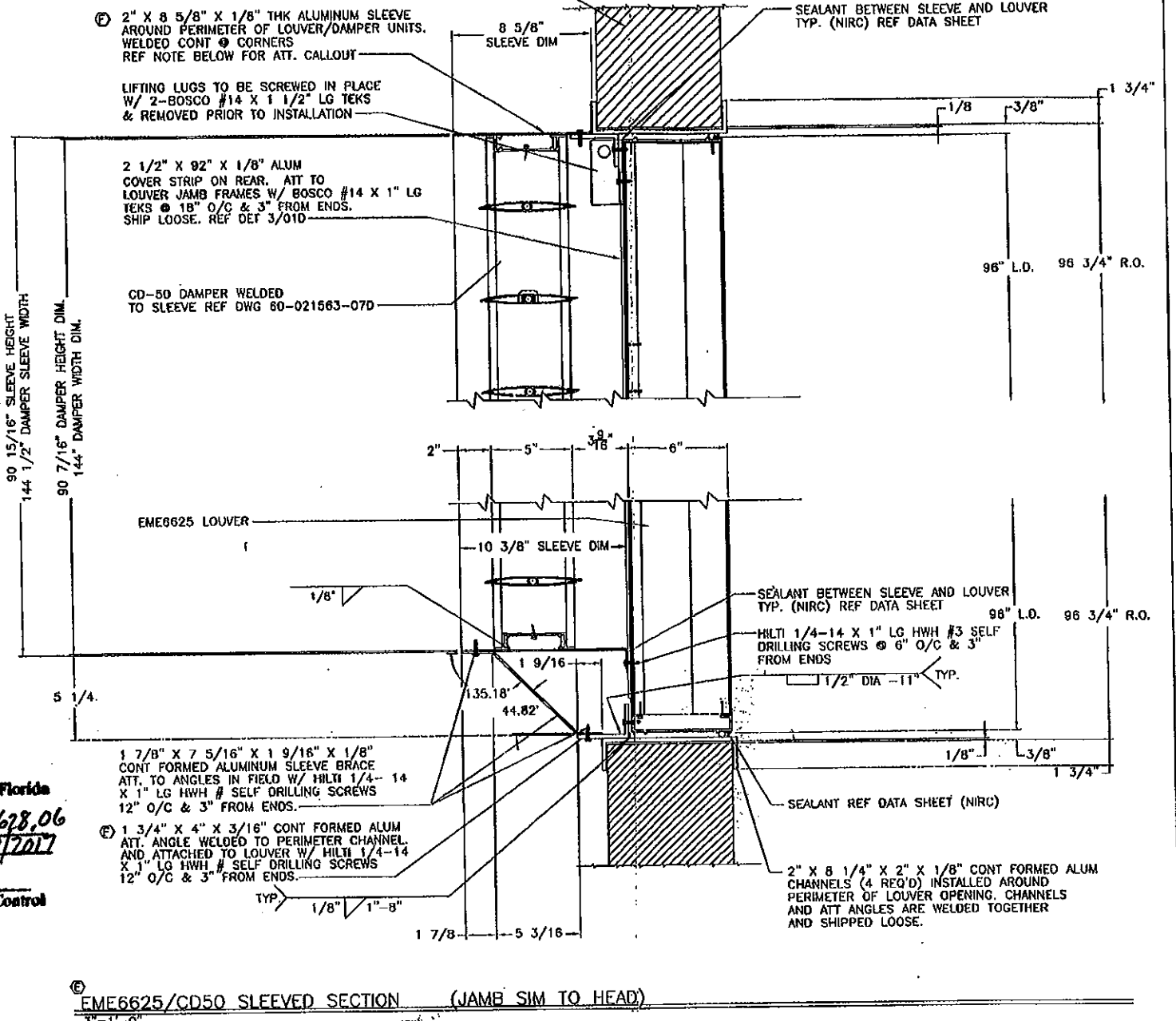
PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 12-0628.06
 Expiration Date 12/28/2017
 By *[Signature]*
 Miami Date Product Control

LEGEND:

- | | |
|-------------------------------|---------------------------------------|
| O.F.D. = OUTSIDE FRAME DIM. | HVBS = HIDDEN VERTICAL BLADE SUPPORT. |
| R.O. = ROUGH OPENING | SSD = SHIP SECTION DIM. |
| A.L. = ANGLE LENGTH | L.D. = LOUVER DIM. |
| O.D. = OPENING DIM. | DIM. = DIMENSION |
| N.T.S. = NOT TO SCALE | SIM = SIMILAR |
| NIRC = NOT IN RUSKIN CONTRACT | |

NOTES:

- THE STRUCTURAL SUBSTRATE THAT HOLDS THE LOUVER IN PLACE, IS ASSUMED TO BE STRUCTURALLY SOUND AND STABLE TO TAKE THE LOADS DISPERSED BY THE LOUVER.
- LOUVER IS NONBEARING AND IS NOT DESIGNED TO WITHSTAND BUILDING DEADLOADS.



Professional Engineer
 Florida
 PE #71909
 State of
 William J. Mossie
 12/09/2011

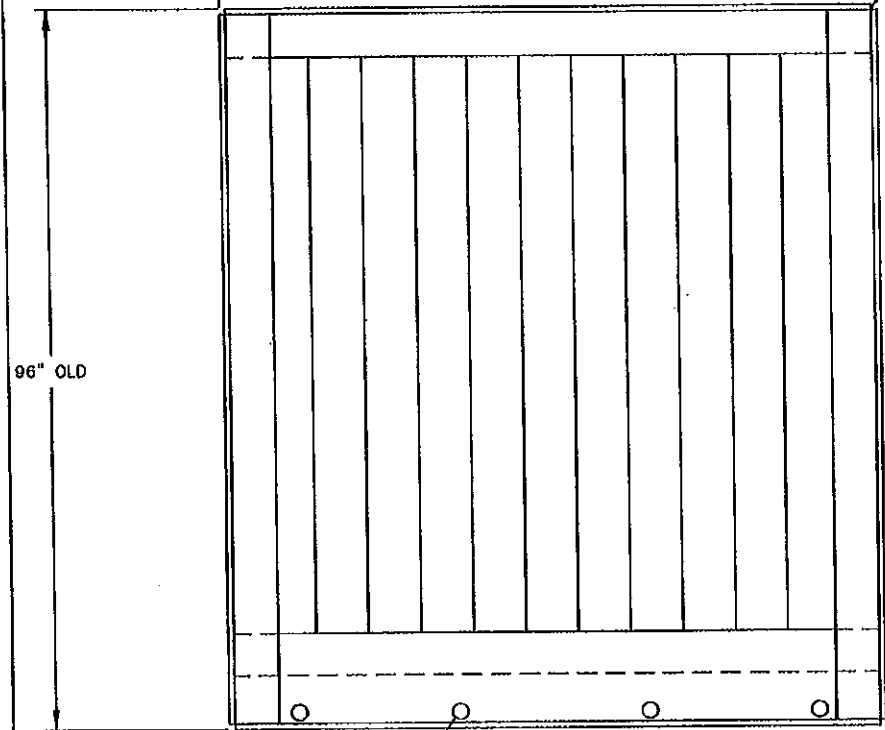
FOR FASTENER LOADS REF
 DWG. 60-021563-06D

FOR OFFICE USE ONLY

PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No 11-1229.04
 Expiration Date 12/28/2017
 By *[Signature]*
 Miami Date Product Control

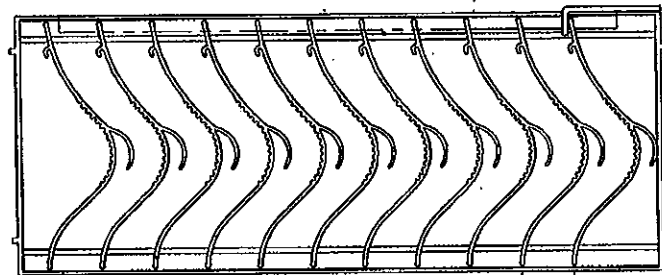
DESIGNER OF RECORD
 William J. Mossie, PE
 CIVIL ENGINEER
 STATE OF FLORIDA #71909
 LOUVER DAMPER ASSY
 DADE CITY, FLORIDA

NO.	ENGR. OF RECORD & SHEET NUMBER	WJM			DATE												
1	ADDED SHEET NUMBER	DLC	DJR	DJR	5/23/11												
2	REVISE TITLE, SLEEVE AND MOUNTING ANGLE	RFM			10-17-08												
3	DADE CO. COMMENTS	GSL	VMA		10/15/08												
4	DADE CO. COMMENTS	RM	VMA		7-31-08												
5	ADDED NOTES	GSL	VMA		5/7/08												
6	ADDED ENGINEERING DATA & REV'D DETAILS	GSL	VMA		5/1/08												
7	REMOVED ENGINEERING DATA	JAL	VMA		4/17/08												
<table border="1"> <thead> <tr> <th>CHANGE LETTER</th> <th>REVISION DESCRIPTION</th> <th>DATE</th> <th>BY</th> <th>CHKD.</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>						CHANGE LETTER	REVISION DESCRIPTION	DATE	BY	CHKD.	DATE						
CHANGE LETTER	REVISION DESCRIPTION	DATE	BY	CHKD.	DATE												
<table border="1"> <thead> <tr> <th>DATE</th> <th>BY</th> <th>DATE</th> <th>BY</th> <th>DATE</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>11-13-08</td> <td>GSL</td> <td>11-16-08</td> <td>VMA</td> <td></td> <td></td> </tr> </tbody> </table>						DATE	BY	DATE	BY	DATE	BY	11-13-08	GSL	11-16-08	VMA		
DATE	BY	DATE	BY	DATE	BY												
11-13-08	GSL	11-16-08	VMA														
RUSKIN Mfg 3900 DR. Greaves RD Grandview, MO 64030 PROPRIETARY INFORMATION NONE EME6625D & CD50 ASSEMBLIES & SECTIONS 60-021563-00D Sheet 1 of 38																	

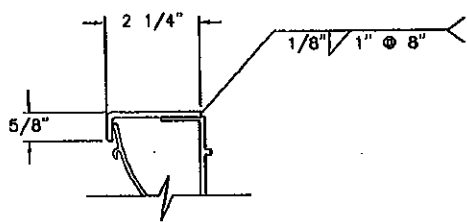


1/2" DIA WEEP HOLES
 @ 8" O/C & 2" FROM
 ENDS @ FRONT OF LOUVER
 SILL ONLY.

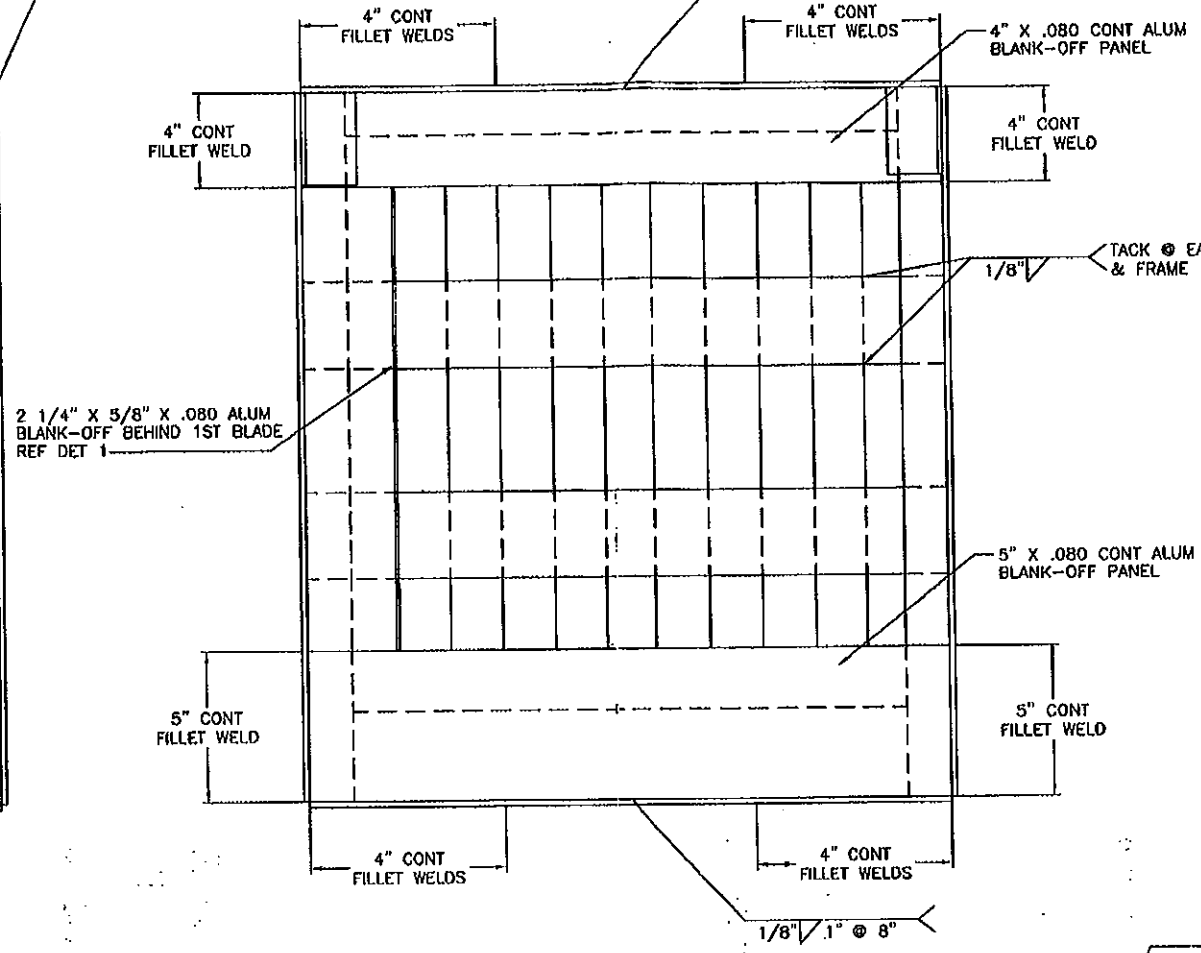
FRONT ELEVATION VIEW (PER SHIP SECTION)



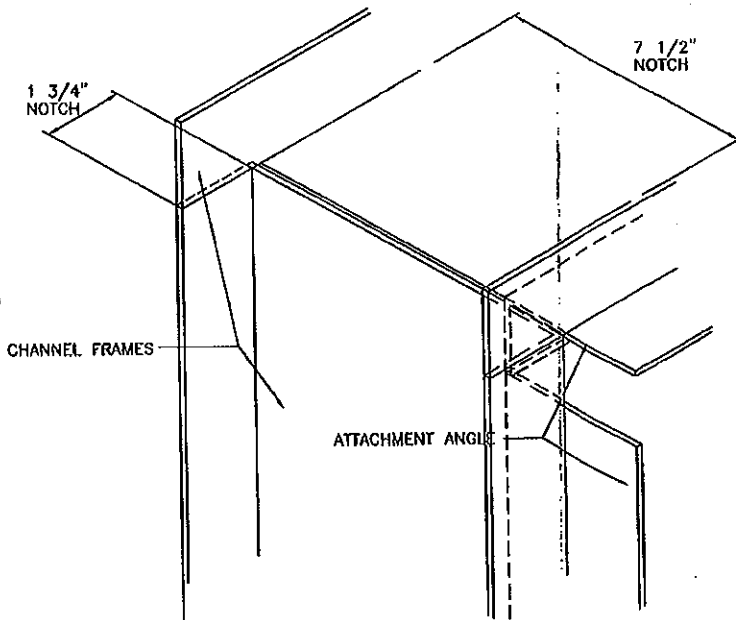
SECTION PLANVIEW



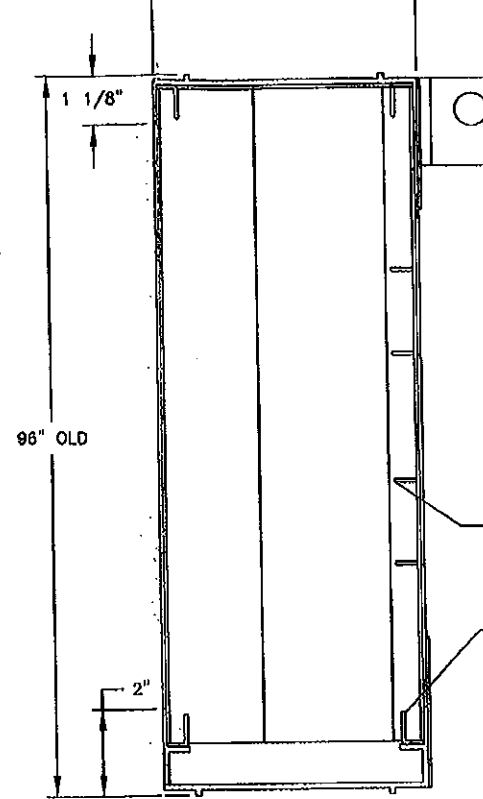
1 1ST BLADE JAMB BLANKOFF DETAIL
 N.T.S.
 MAT'L: .080 CONT FORMED ALUMINUM



REAR ELEVATION VIEW



2 ISOMETRIC NOTCHING DETAIL
 N.T.S.

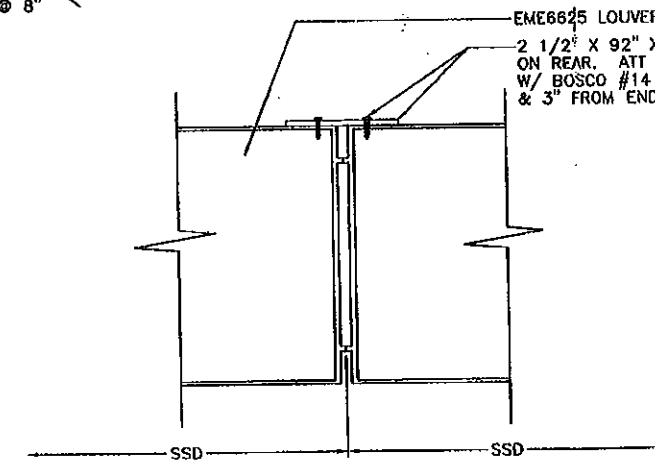


EME6625 SECTION

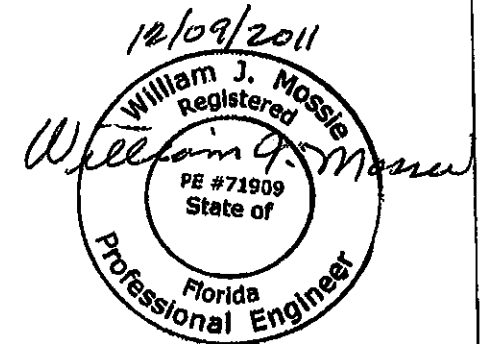
PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 12-0628.06
 Expiration Date 01/28/2017

By *[Signature]*
 Miami Dade Product Control

EME6625 LOUVER
 2 1/2" X 92" X 1/8" ALUM COVER STRIP
 ON REAR. ATT TO LOUVER JAMB FRAMES
 W/ BOSCO #14 X 1" LG TEKS @ 18" O/C
 & 3" FROM ENDS. SHIP LOOSE.



3 MULLION SPLICE DETAIL
 N.T.S.

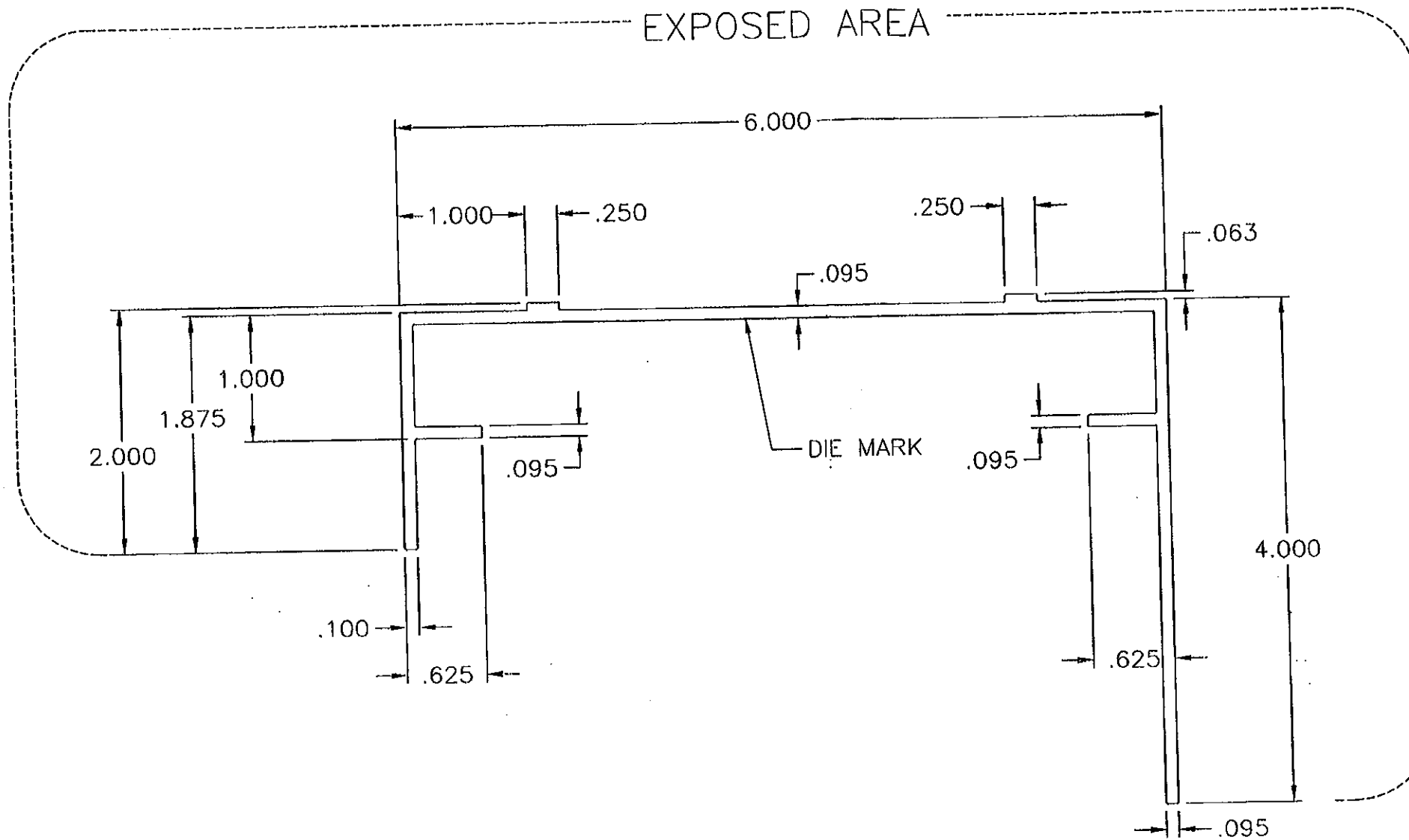


FOR OFFICE USE ONLY

PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No 11-1229.04
 Expiration Date 01/28/2017
 By *[Signature]*
 Miami Dade Product Control

ENGINEER OF RECORD
 William J. Mossie, PE
 CIVIL ENGINEER
 STATE OF FLORIDA #71909
 LOUVER DAMPER ASSY
 DADE CIV. FLORIDA

ENGINEER OF RECORD AND SHEET NUMBER	WJM			12/09/11
ADDED SHEET NUMBER	DLC	DJR	DJR	5/23/17
REVISED BLADE SPACING PER RETEST	DJR	VMA		7/11/06
DADE CO. COMMENTS	RM	VMA		7-31-98
REV'D DETAILS & ELEV.	GSL	VMA		5-2-98
REV'D DETAILS & ADDED DETAILS 2 & 3	GSL	VMA		5-1-98
REMOVED ENGINEERING DATA	JAL	VMA		4-17-98
REASON FOR CHANGE				
DATE				
PROJECT INFORMATION	RUSKIN Mfg 3900 DR. Greaves RD Grandview, MO 64030			
PROPRIETARY INFORMATION	NONE			
PROJECT TITLE	EME6625D & C050 ASSEMBLIES & SECTIONS			
DWG. NO.	60-021563-01D			
SHEET 2 OF 38				



RUSKIN PART #70-021995-00B

AREA= 1.250 SQ. IN.
 PERIMETER= 26.12 IN.
 EST. WEIGHT= 1.470 LBS/FT.

NOTES:

1. ALUMINUM ASSOCIATION TOLERANCES APPLY UNLESS OTHERWISE SPECIFIED.
2. 0.010" RADIUS AT ALL CORNERS UNLESS OTHERWISE SPECIFIED.
3. ALL DIMENSIONS ARE GIVEN IN INCHES.
4. INVENTORY NUMBER= 10820

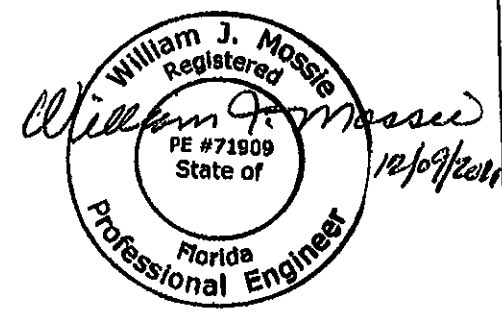
ENGINEER OF RECORD William J. Mossie, PE			
ENGINEERING DISCIPLINE CIVIL ENGINEER			
REGISTRATION NUMBER STATE OF FLORIDA #71909			
DWN. BY: JKS DATE: 11/20/96	CHK. BY: VMA DATE: 11/22/96	APPV'D. BY: G.L. DATE: 11/22/96	APPV'D. BY: DATE:
MATERIAL: 6063T6 EXTRUDED ALUMINUM NOM WALL THICKNESS = .095"			

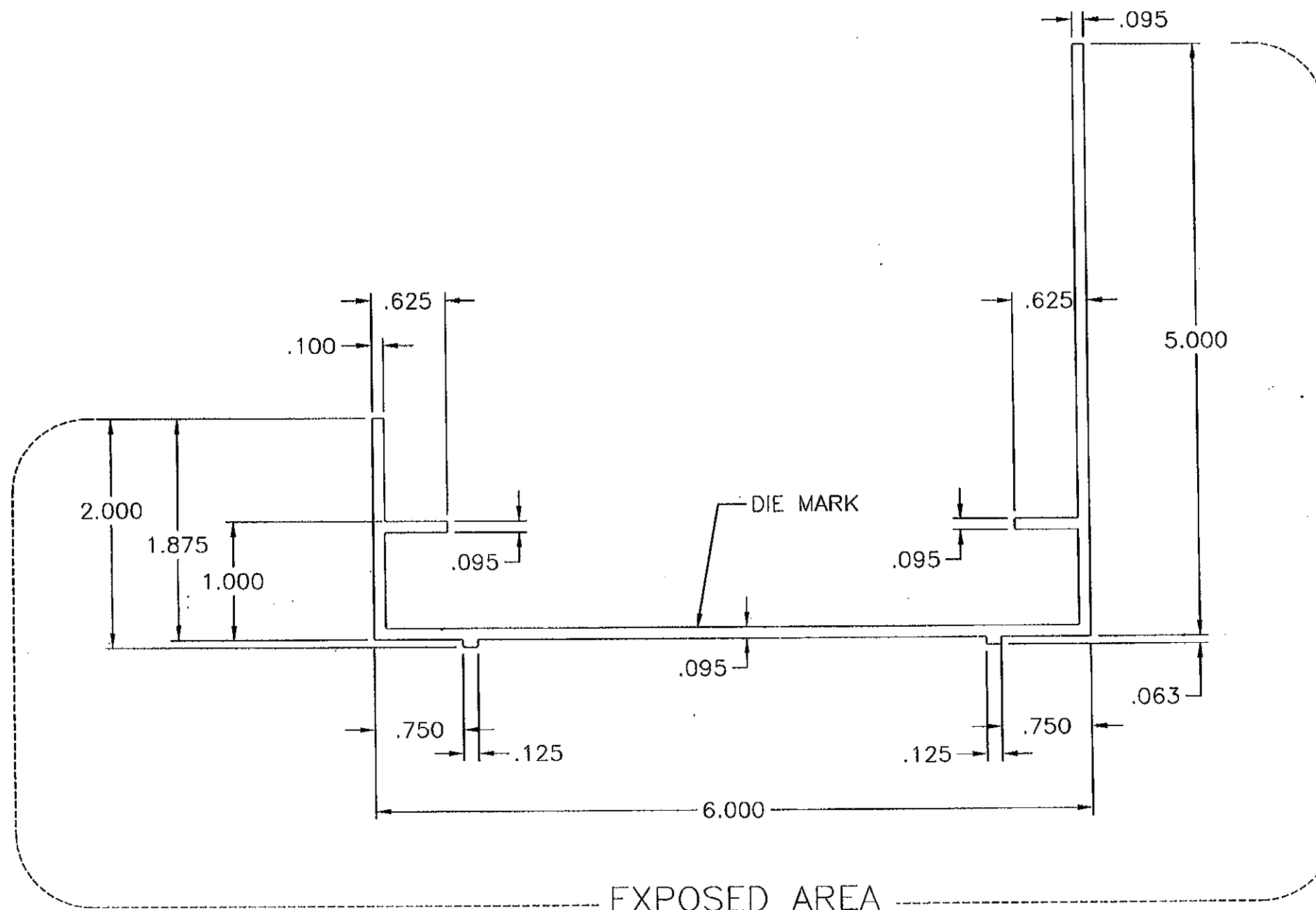
CHANGE LETTER	REVISION DESCRIPTION	DWN. BY:	CHK'D. BY:	APPV'D. BY:	APPV'D. BY:	DATE
	RUSKIN Mfg. Grandview, MD PROPRIETARY INFORMATION					
TITLE EME6625D LOUVER HEAD FRAME		PLOT SCALE NONE		DWG. CERTIFIED BY: _____ DATE: _____		
		DWG. NO. 60-021563-03B SHEET 4 OF 38				

FOR OFFICE USE ONLY

PRODUCT RENEWED
 as complying with the Florida Building Code
 Acceptance No 11-1229.04
 Expiration Date 01/28/2017
 By *[Signature]*
 Miami Dade Product Control

PRODUCT REVISED
 as complying with the Florida Building Code
 Acceptance No 12-0628.06
 Expiration Date 01/28/2017
 By *[Signature]*
 Miami Dade Product Control





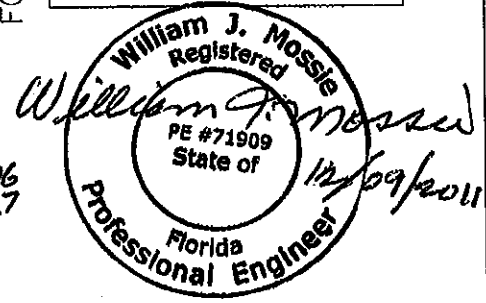
AREA= 1.318 SQ. IN.
 PERIMETER= 27.948 IN.
 EST. WEIGHT= 1.550 LBS/FT.

- NOTES:
1. ALUMINUM ASSOCIATION TOLERANCES APPLY UNLESS OTHERWISE SPECIFIED.
 2. 0.010" RADIUS AT ALL CORNERS UNLESS OTHERWISE SPECIFIED.
 3. ALL DIMENSIONS ARE GIVEN IN INCHES.
 4. INVENTORY NUMBER= 10820

FOR OFFICE USE ONLY

PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No 11-1229.04
 Expiration Date 01/28/2017
 By [Signature]
 Miami Dade Product Control

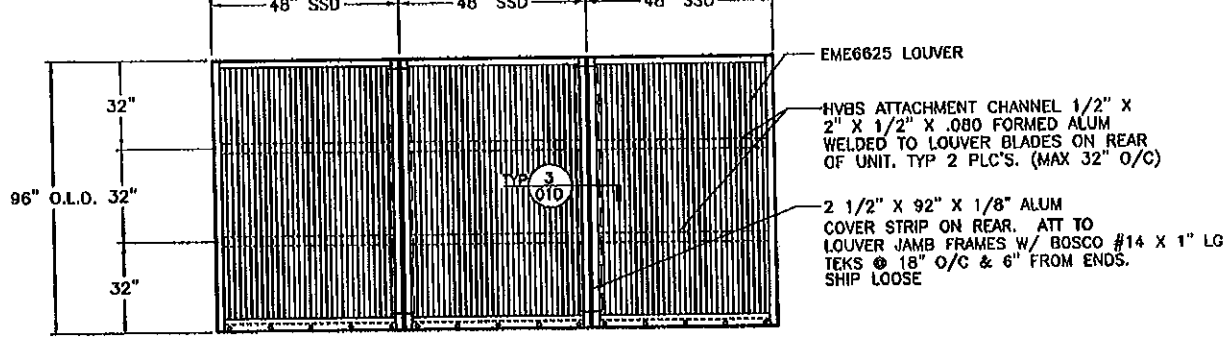
PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 12-0628.06
 Expiration Date 01/28/2017
 By [Signature]
 Miami Dade Product Control



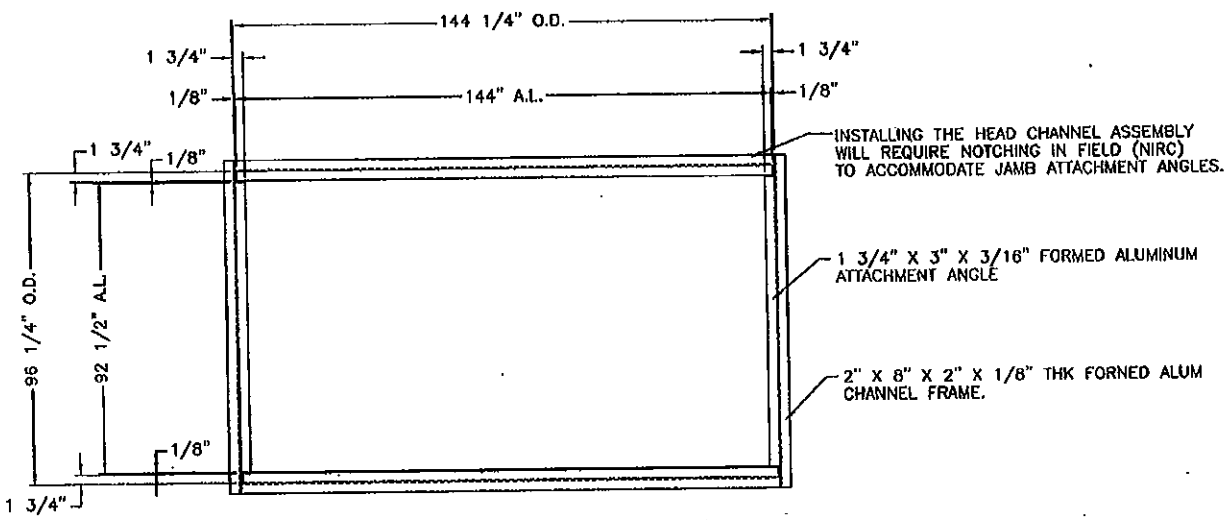
EXPOSED AREA

RUSKIN PART #70-020749-00B

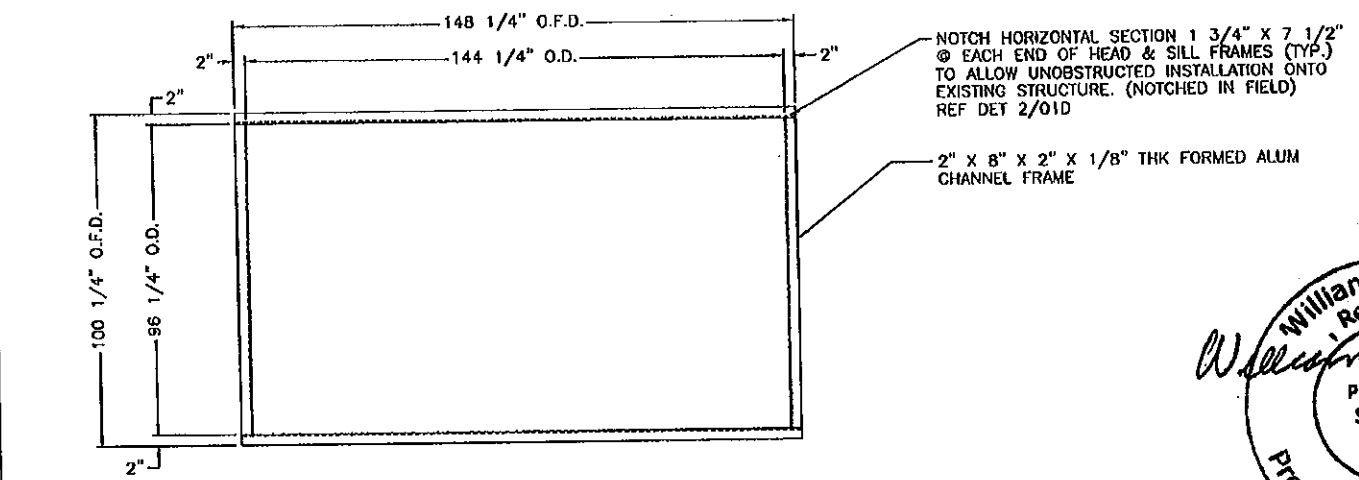
ENGINEER OF RECORD William J. Mossie, PE				CHANGE LETTER		REVISION DESCRIPTION		DWN. BY:	CHK'D. BY:	APPV'D. BY:	APPV'D. BY:	DATE
ENGINEERING DISCIPLINE CIVIL ENGINEER				STATE OF FLORIDA #71909		RUSKIN Mfg. Grandview, MD		PLOT SCALE		DWG. CERTIFIED		
REGISTRATION NUMBER				DATE:		PROPRIETARY INFORMATION		NONE		BY: _____		
MATERIAL: 6063T6 EXTRUDED ALUMINUM NOM WALL THICKNESS = .095"				11/20/96 11/22/96 11/22/96		TITLE EME6625D LOUVER SILL FRAME		DWG. NO.		60-021563-04B SHEET 5 OF 38		



EME6625 LOUVER ASSEMBLY "B"
 NTS DESIGN PRESSURE RATING: +160/ -140 PSF FRONT VIEW
 SEE SECTION DETAILS FOR APPLICABILITY



CHANNEL FRAME & ATT ANGLE ELEVATION
 REAR VIEW



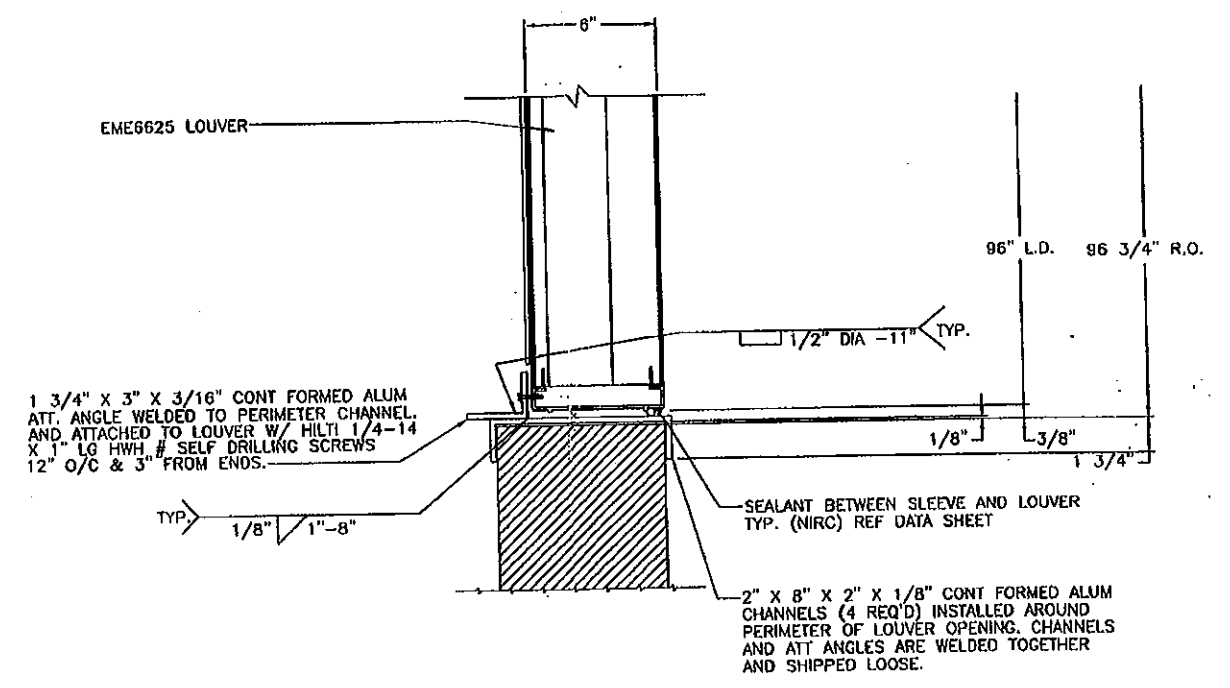
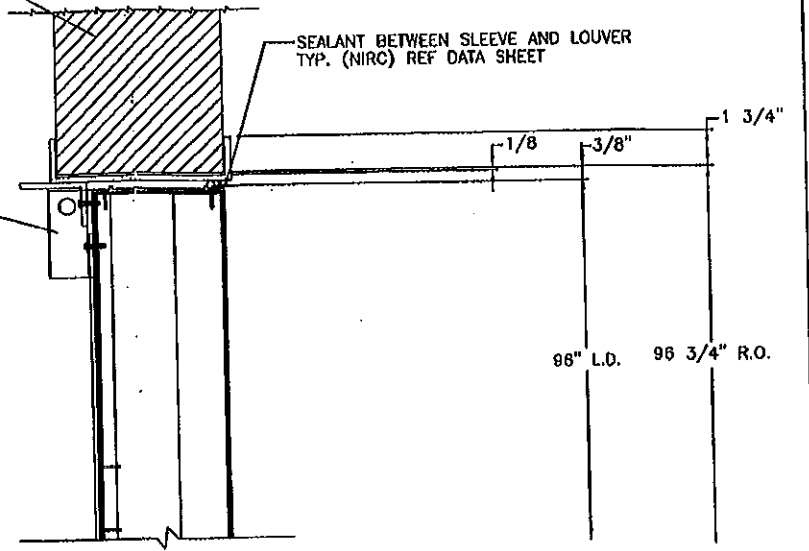
CHANNEL FRAME ELEVATION
 FRONT VIEW

REAR & FRONT ELEVATIONS VIEW OF CHANNEL FRAME & ATT. ANGLE
 N.T.S.

- LEGEND:**
- O.F.D. = OUTSIDE FRAME DIM.
 - R.O. = ROUGH OPENING
 - A.L. = ANGLE LENGTH
 - O.D. = OPENING DIM.
 - N.T.S. = NOT TO SCALE
 - SSD = SHIP SECTION DIM.
 - L.D. = LOUVER DIM.
 - DIM. = DIMENSION
 - SIM = SIMILAR

- NOTES:**
- THE STRUCTURAL SUBSTRATE THAT HOLDS THE LOUVER IN PLACE, IS ASSUMED TO BE STRUCTURALLY SOUND AND STABLE TO TAKE THE LOADS DISPERSED BY THE LOUVER.
 - LOUVER IS NONBEARING AND IS NOT DESIGNED TO WITHSTAND BUILDING DEADLOADS.

LIFTING LUGS TO BE SCREWED IN PLACE W/ 2-BOSCO #14 X 1 1/2" LG TEKS & REMOVED PRIOR TO INSTALLATION



EME6625/CD50 SLEEVED SECTION (JAMB SIM TO HEAD)
 3'-1"-0"

Professional Engineer
 Florida
 William J. Mossie
 Registered Professional Engineer
 PE #71909
 State of Florida
 12/09/2011

FOR OFFICE USE ONLY

PRODUCT RENEWED as complying with the Florida Building Code
 Acceptance No 11-1229.04
 Expiration Date 2/1/2017
 By [Signature]
 Miami Dade Product Control

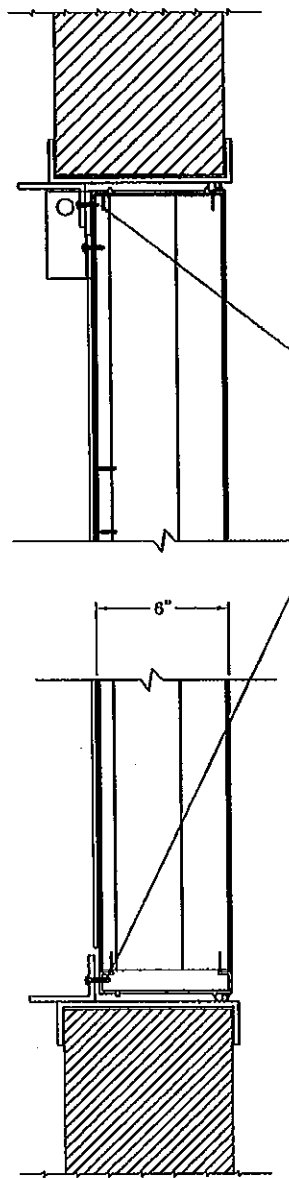
PRODUCT REVISED as complying with the Florida Building Code
 Acceptance No 12-0628.06
 Expiration Date 2/1/2017
 By [Signature]
 Miami Dade Product Control

FOR FASTENER LOADS REF. DWG. 60-021563-06D

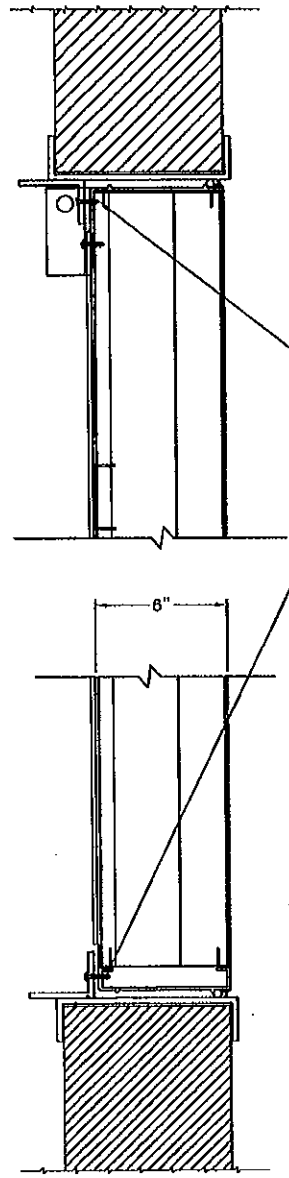
STATE OF FLORIDA #71909
 WILLIAM J. MOSSIE, PE
 CIVIL ENGINEER

CHANGE LETTER	REVISION DESCRIPTION	DATE	BY	APP'D.	DATE
(A)	REMOVED ENGINEERING DATA	JAL	VMA		1-17-98
(B)	REV'D DETAILS & ELEVATIONS	GSL	VMA		5-1-98
(C)	REV'D DETAILS & ELEVATIONS ADDED NOTES	GSL	VMA		5-7-98
(D)	DADE CO. COMMENTS	RM	VMA		7-31-98
(E)	DADE CO. COMMENTS	RM	VMA		10/15/98
(F)	ADDED SHEET NUMBER	DLC	DJR	DJR	5/23/97
(G)	ENGINEER OF RECORD AND SHEET NUMBER	WJM			12/08/11

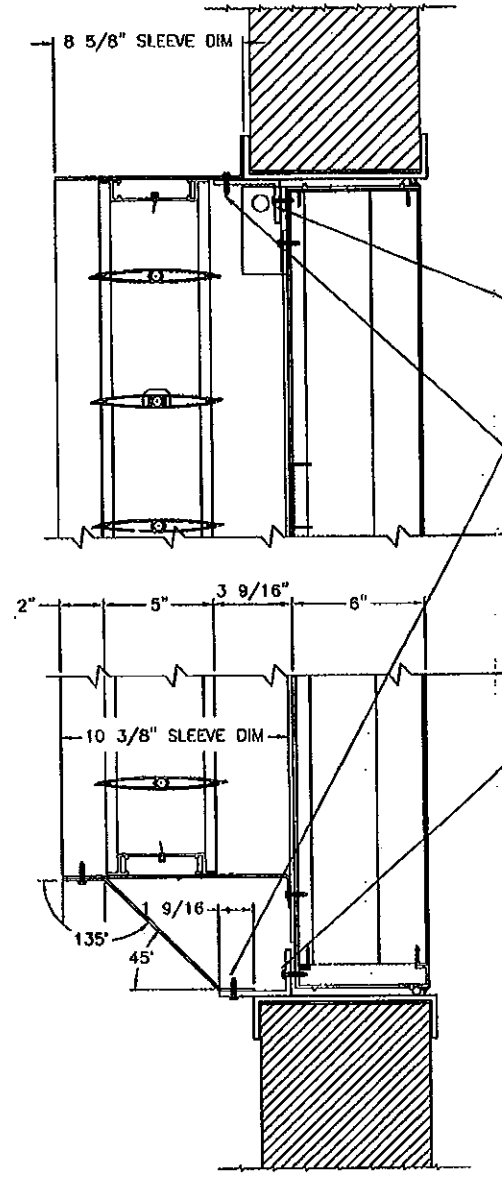
RUSKIN MIG 3900 DR. GREENWAY RD GRANDVIEW, MD 21030
 PROPRIETARY INFORMATION
 NONE
 EME6625D & CD50 ASSEMBLIES & SECTIONS
 60-021563-05D
 SHEET 6 OF 38



42 FASTENERS USED
TENSILE LOAD ON EACH
FASTENER ATTACHING
LOUVER TO SUBFRAME
IS 320 LBS.



24 FASTENERS USED
TENSILE LOAD ON EACH
FASTENER ATTACHING
LOUVER TO SUBFRAME
IS 187 LBS.



42 FASTENERS USED
TENSILE LOAD ON EACH
FASTENER ATTACHING LOUVER
TO SUBFRAME IS 320 LBS.

42 FASTENERS USED
SHEAR LOAD ON EACH
FASTENER ATTACHING SLEEVE
TO SUBFRAME IS 345 LBS.

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Building Code
Acceptance No 11-1229.04
Expiration Date 01/28/2017
By [Signature]
Miami Dade Product Control

LOUVER ONLY ASSEMBLIES "B" (+160/ -140 PSF)
N.T.S.

The EME6625D louver can be installed in locations where space behind the louver is not designed to drain or accept water if ductwork is attached to the rear of the louver. The ductwork must be designed to manage the 7.68 oz. of water penetration allowed during the TAS-100(A) Wind Driven Rain Test. This application is Rated For Water. If no ductwork is to be installed to the louver, the louver must be installed in locations where the area behind is designed to drain or accept water. This application is Not Rated For Water.

LOUVER ONLY ASSEMBLIES "C" (+160/ -140 PSF)
N.T.S.

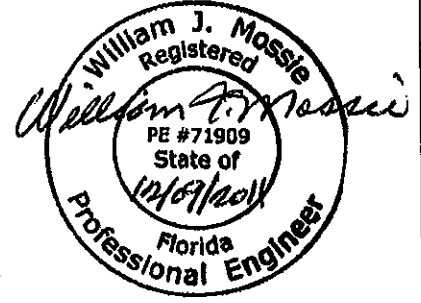
The EME6625D louver can be installed in locations where space behind the louver is not designed to drain or accept water if ductwork is attached to the rear of the louver. The ductwork must be designed to manage the 7.68 oz. of water penetration allowed during the TAS-100(A) Wind Driven Rain Test. This application is Rated For Water. If no ductwork is to be installed to the louver, the louver must be installed in locations where the area behind is designed to drain or accept water. This application is Not Rated For Water.

LOUVER/DAMPER ASS'Y "A" (+160/ -140PSF)
N.T.S.

CAN BE INSTALLED IN LOCATIONS WHERE SPACE BEHIND LOUVER IS NOT DESIGNED TO ACCEPT WATER.
MEETS WATER REQUIREMENTS

PRODUCT REVISED
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Building Code
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Expiration Date 01/28/2017

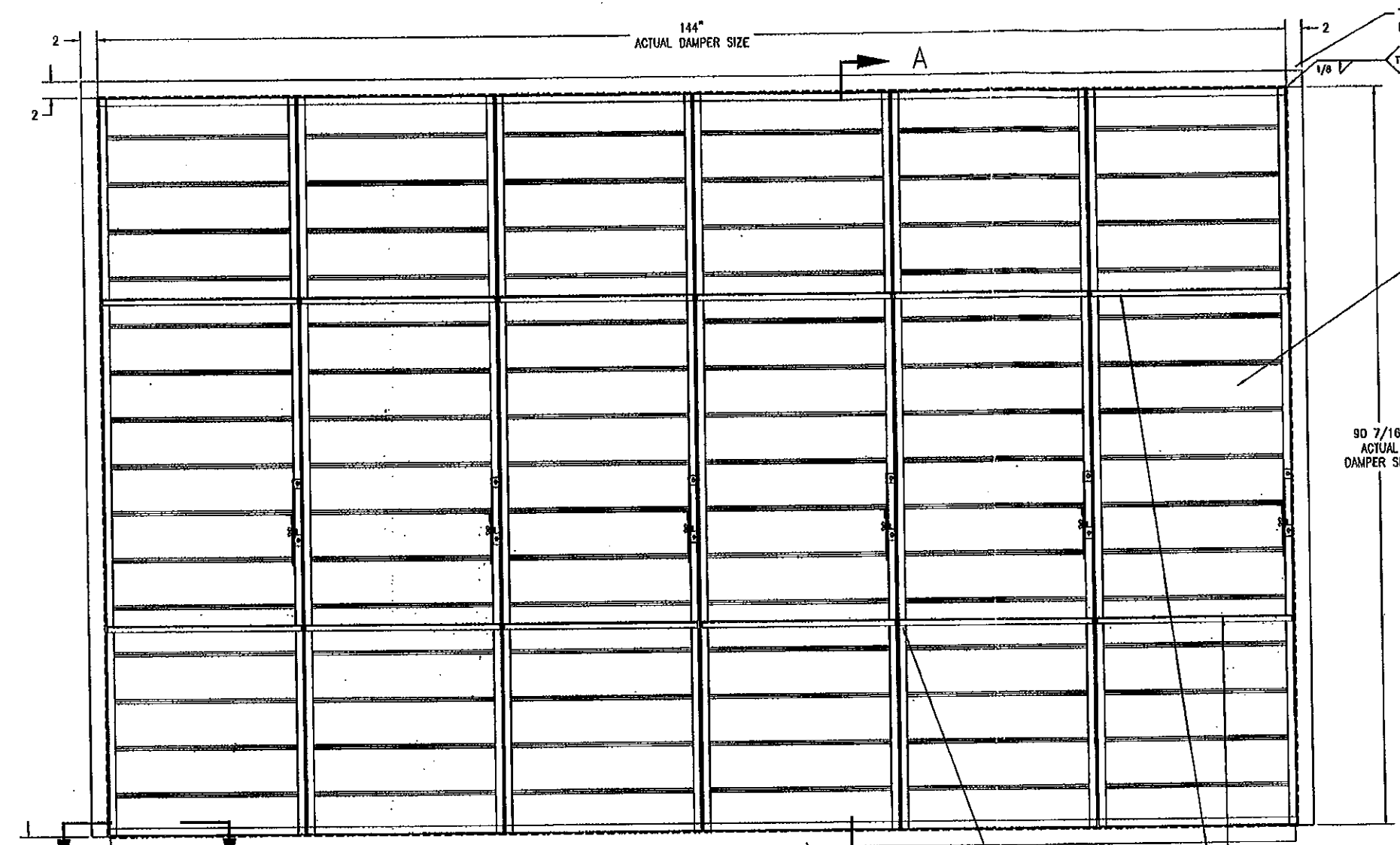
By [Signature]
Miami Dade Product Control



ULTIMATE PULL OUT VALUES FOR 1/4-14 SELF-TAPPING FASTENERS IN 1/8" ALUMINUM IS 825 LBS.(SAFETY FACTOR OF 3.) ALLOWABLE SHEAR LOAD IS 405 LBS., SEE HILTI PRODUCT TECHNICAL GUIDE 8/96, P136.

THE EME6625 AND THE EME6625 WITH CD50 DAMPER, FURNISHED BY RUSKIN MANUFACTURING, CONFORM TO THE CURRENT FLORIDA BUILDING CODE INCLUSIVE OF CHAPTER 16.

①	ENGINEER OF RECORD AND SHEET NUMBER	WJM			12/07/11
②	ADDED SHEET NUMBER REVD APPLICATION INFO	DLC	DJR	DJR	5/23/17
③	REVD PER DADE COUNTY COMMENTS	DJR	VMA		7/11/08
④	REVD DETAILS	GSL	VMA		10-18-06
⑤	REVD DETAILS & ADDED ENG DATA	GSL	VMA		5-4-08
⑥	REMOVED ENGINEERING DATA	JAL	VMA		4-17-08
DESIGNER OF RECORD		William J. Mossie, PE ④			
REGISTERED PROFESSIONAL ENGINEER		CIVIL ENGINEER			
STATE OF FLORIDA #71909					
DATE	BY	DATE	BY	DATE	BY
3-13-08	GSL	3-16-08	VMA		
PROJECT DESCRIPTION		RUSKIN Mig 3900 DE Greaves RD			
PROJECT LOCATION		Proprietary Information			
PROJECT TITLE		LOUVER DAMPER ASSY DADE CTY. FLORIDA			
PROJECT NO.		EME6625D & CD50 FASTENER LOADS			
PROJECT SCALE		NONE			
PROJECT DATE		60-021563-06D SHEET 7 OF 38			



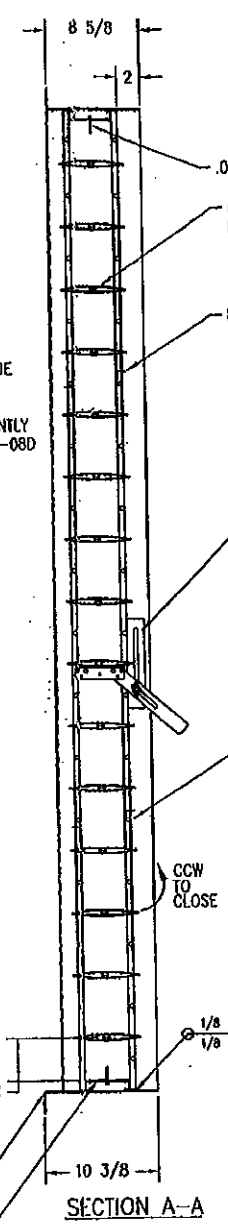
144" ACTUAL DAMPER SIZE

TOP CORNERS TO BE FULL

NOTE: DAMPER TO BE BUILT 6 SECTIONS WIDE x 1 SECTION HIGH WITH EACH SECTION OPERATED INDEPENDENTLY SEE DWG 60-021563-08D

90 7/16" ACTUAL DAMPER SIZE

FRONT VIEW



.08 ALUM. BLADE STOPS
(15) FULL BLADES REQ'D PARALLEL BLADE ACTION

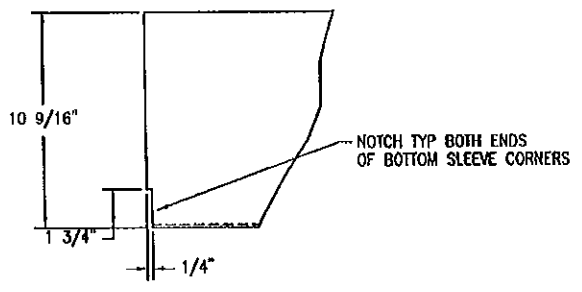
FRAME ANGLE BRACES REF.

LOUVER STYLE HAND QUAD ON 7th BLADE FROM BOTTOM SEE DWG. 60-021563-23B (6 REQ'D)

DAMPER SECTIONS TO BE BOLTED TOGETHER AT 6" C-C MAX. (BOTH SIDES OF FRAME) BOLTS ARE TO BE 1/4"-20 WITH LOCKNUTS

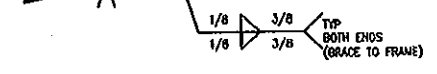
CCW TO CLOSE

SECTION A-A

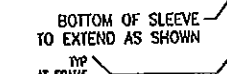


NOTCH TYP BOTH ENDS OF BOTTOM SLEEVE CORNERS

SECTION B-B



SLEEVE: 1/8" ALUM. WITH 2" FLANGE. NOTE THAT BOTTOM SLEEVE LENGTH IS LONGER THAN TOP & SIDES

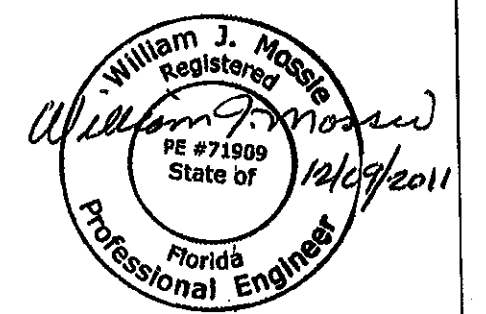


FRAMES TO BE WELDED TOGETHER AT CORNERS IN ADDITION TO USING CORNER CLIPS.

FRAME ANGLE BRACES: 3/4" X 3/4" X 1/8" ALUM. TOTAL OF (4) PER DAMPER SECTION (2 ON EACH SIDE) LOCATE NEAR POSITION SHOWN AND SO THAT NO INTERFERENCE TAKES PLACE WHEN BLADES ROTATE.

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By *[Signature]* Miami Dade Product Control

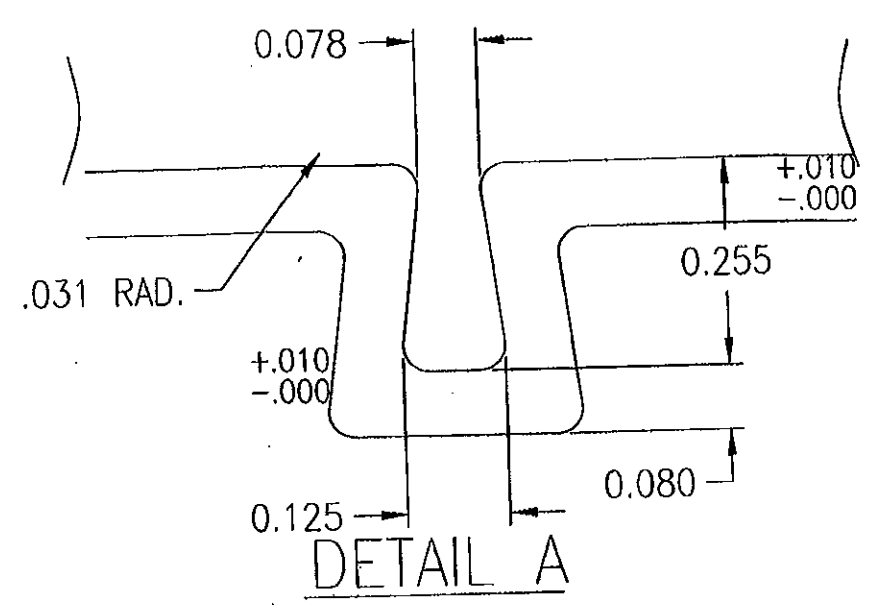
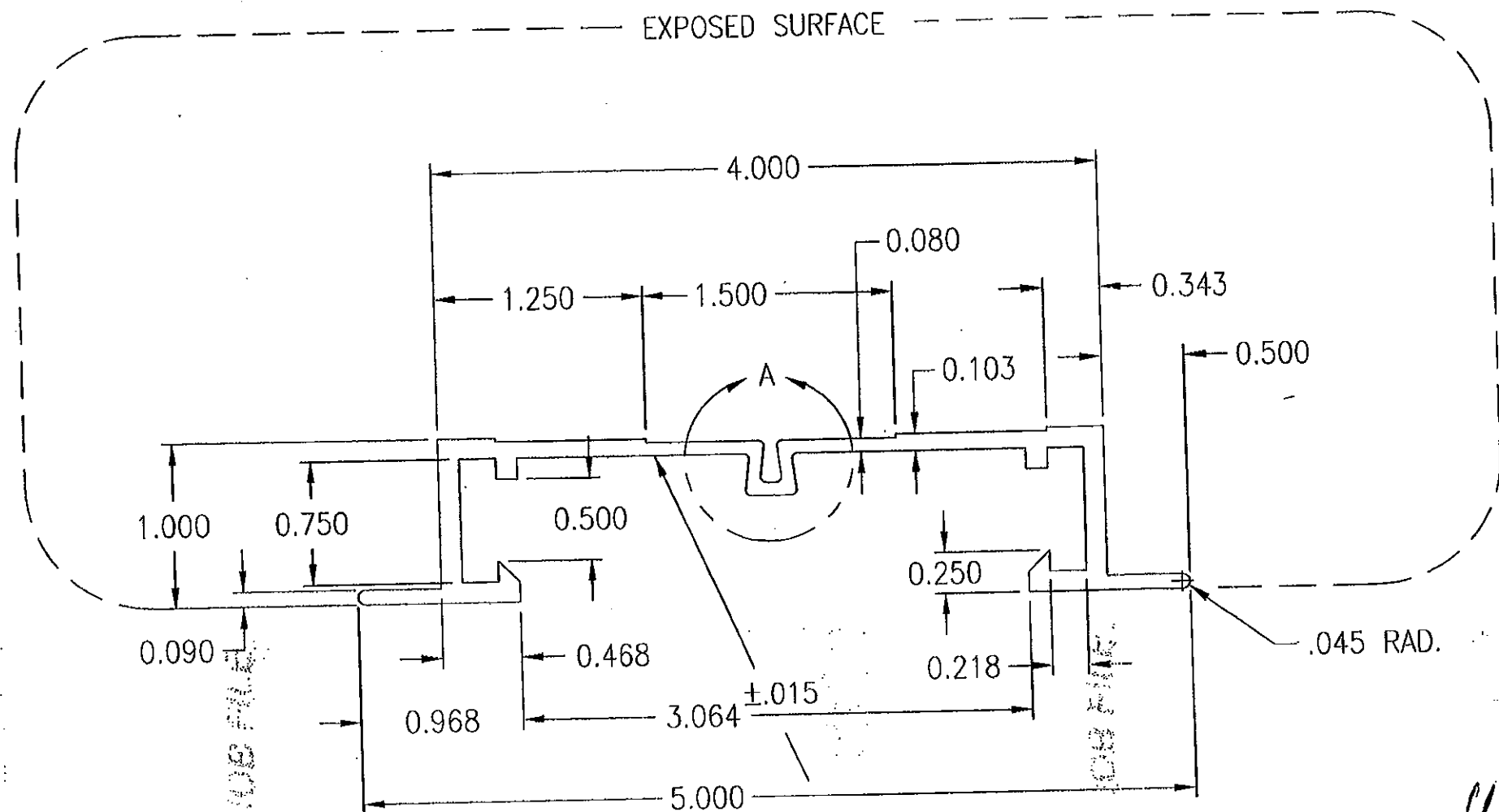


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UNLESS OTHERWISE SPECIFIED USE STANDARD ENGINEERING TOLERANCES

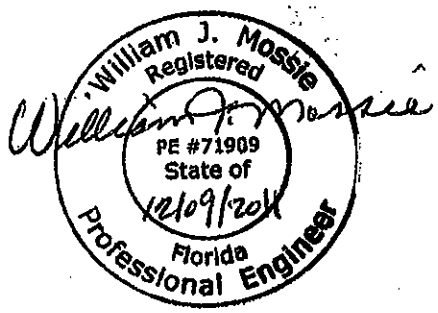
ENGINEER OF RECORD AND SHEET NUMBER	WJM			11/04/11
ADD SHEET NUMBER	DLC	DJR	DJR	5/23/17
REMOVED ENGINEERING DATA	JAL	VMA		5-1-08
REMOVED ENGINEERING DATA	JAL	VMA		1-17-98
STATE OF FLORIDA #71909	DDM	JSB	DVC	
DATE: 3/2/98	DATE: 1/4/13/98	DATE: 4/13/97		
LOUVER DAMPER ASSEMBLY DADE COUNTY, FLORIDA				
CD-50 ASSEMBLY WITH INTERNAL HAND QUAD.				
60-021563-07D				SHEET 8 OF 38



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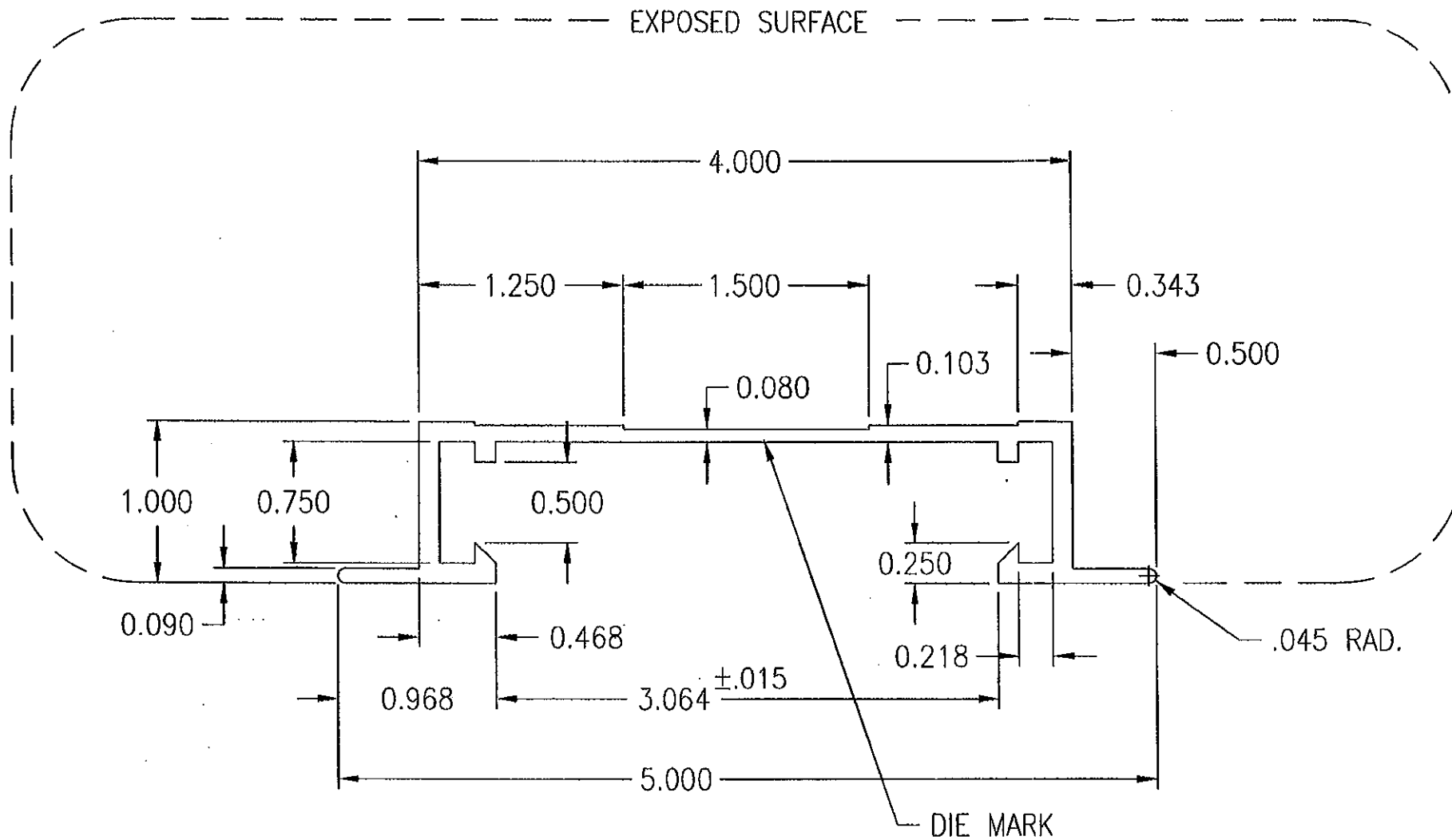
PRODUCT REVISED
 as complying with the Florida
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- NOTES:
1. ALUMINUM ASSOC. TOLERANCES APPLY UNLESS NOTED OTHERWISE
 2. MAX. RISE AT CORNERS OF 4" WEB TO BE NO GREATER THAN .020

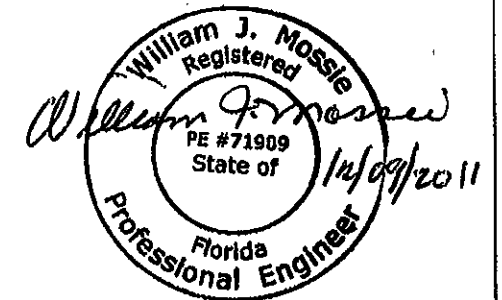
ENGINEER OF RECORD			
William J. Mossie, PE (H)			
ENGINEERING DISCIPLINE			
CIVIL ENGINEER			
REGISTRATION NUMBER			
STATE OF FLORIDA #71909			
DWN. BY: DDM	CHK. BY: JSB	APPV'D. BY: DVC	APPV'D. BY:
DATE: 4/2/98	DATE: 4/6/98	DATE: 4/13/98	DATE:
MAT'L. 6063-T52 EXTRUDED ALUMINUM TYP. WALL THK. .125 UNLESS NOTED			

(H)	ENGINEER OF RECORD AND SHEET NUMBER	WJM				12/08/11
(G)	ADDED SHEET NUMBER	DLC	DJR	DJR		5/23/7
(A)	REMOVED ENGINEERING DATA	JAL				
CHANGE LETTER	REVISION DESCRIPTION	DWN. BY:	CHK'D. BY:	APPV'D. BY:	APPV'D. BY:	DATE
	RUSKIN Mfg. air handling specialties 3900 DR. GREAVES RD. GRANDVIEW MD 64030	PLOT SCALE		DWG. CERTIFIED		
		NONE		BY: _____ DATE: _____		
TITLE		CD-50 TOP AND BOTTOM FRAME		DWG. NO.		
				60-021563-09B SHEET 10 OF 38		



NOTES:

1. ALUMINUM ASSOC. TOLERANCES APPLY UNLESS NOTED OTHERWISE
2. MAX. RISE AT CORNERS OF 4" WEB TO BE NO GREATER THAN .020



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Expiration Date 01/28/2017
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Building Code
Acceptance No 11-1229-04
Expiration Date 01/28/2017
By *[Signature]*
Miami Trade Product Control

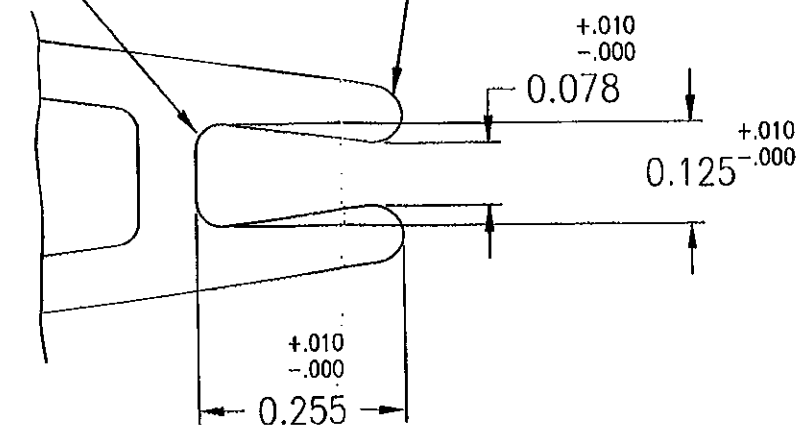
ENGINEER OF RECORD William J. Mossie, PE			ENGINEER OF RECORD AND SHEET NUMBER	WJM				12/08/11
ENGINEERING DISCIPLINE CIVIL ENGINEER			ADDED SHEET NUMBER	DLC	DJR	DJR		5/23/7
REGISTRATION NUMBER STATE OF FLORIDA #71909			REMOVED ENGINEERING DATA	JAL				
DWN. BY: DDM CHK. BY: JSB APPV'D. BY: DVC APPV'D. BY: DATE: 4/2/98 DATE: 4/6/98 DATE: 4/13/98 DATE: MAT'L. 6063-T52 EXTRUDED ALUMINUM TYP. WALL THK. .125 UNLESS NOTED		CHANGE LETTER	REVISION DESCRIPTION	DWN. BY:	CHK'D. BY:	APPV'D. BY:	APPV'D. BY:	DATE
			RUSKIN Mfg. air handling specialties 3900 DR. GREAVES RD. GRANDVIEW MI 48030	PLOT SCALE NONE		DWG. CERTIFIED BY: _____ DATE: _____		
			CD-50 SIDE FRAME	DWG. NO. 60-021563-10B SHEET 11 OF 38				

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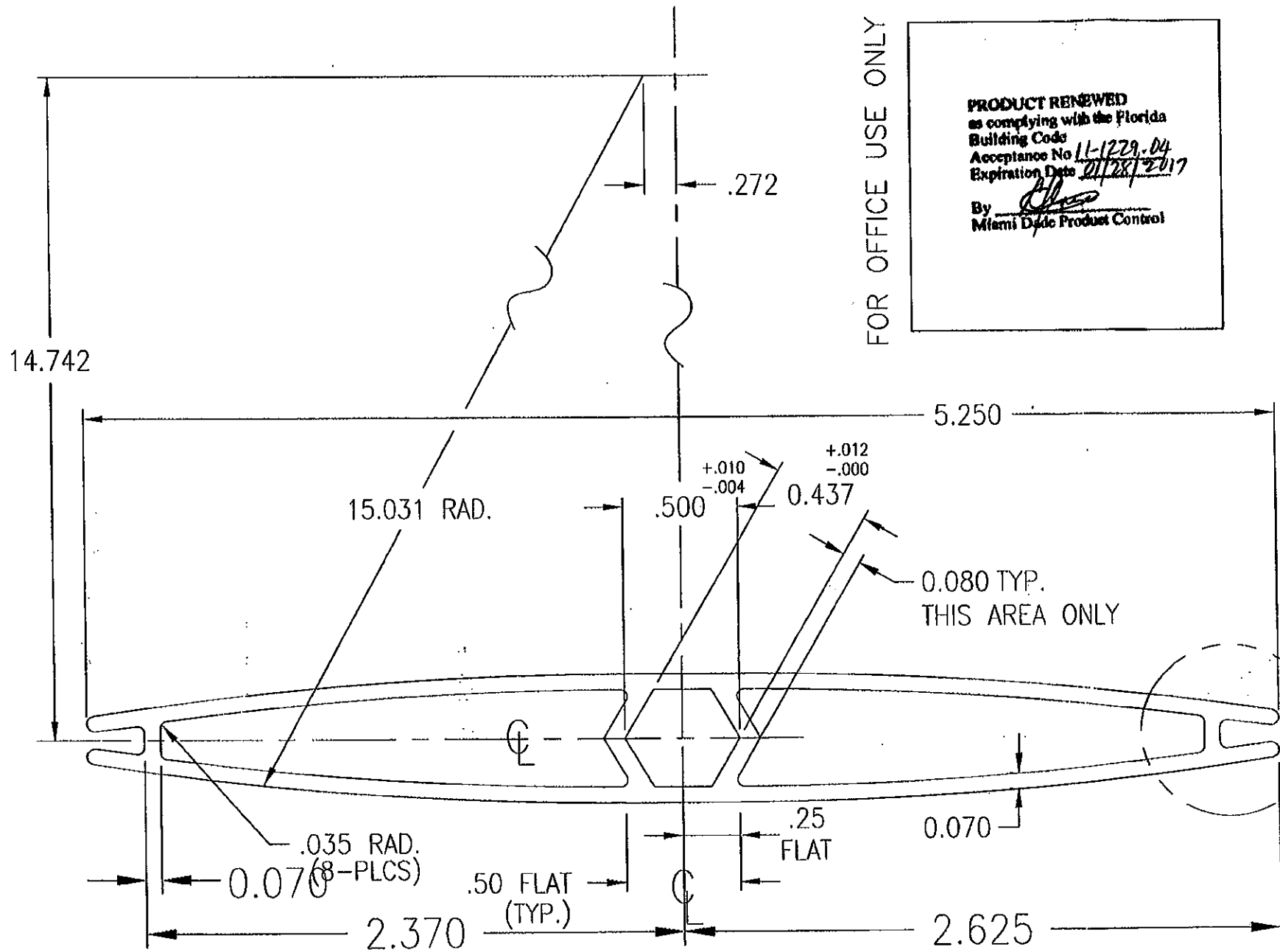
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 Acceptance No 11-1229-04
 Expiration Date 01/28/2017
 By *[Signature]*
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.031 RAD.
 4-PLCS.

.035 RAD
 TYP.

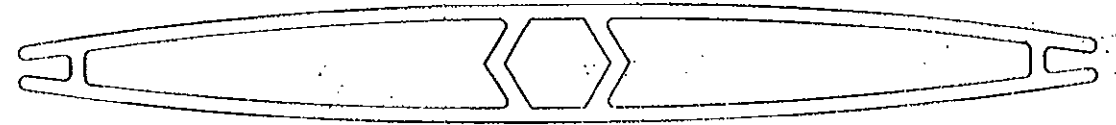


DETAIL A
 SCALE: 4X



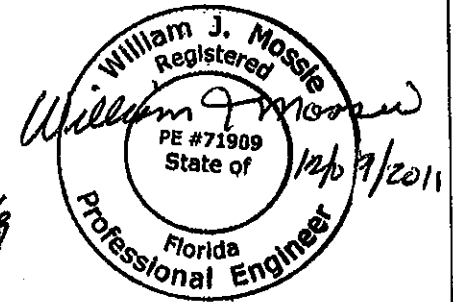
SCALE: 1.5X

SEE DETAIL A



ACTUAL SIZE

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 By *[Signature]*
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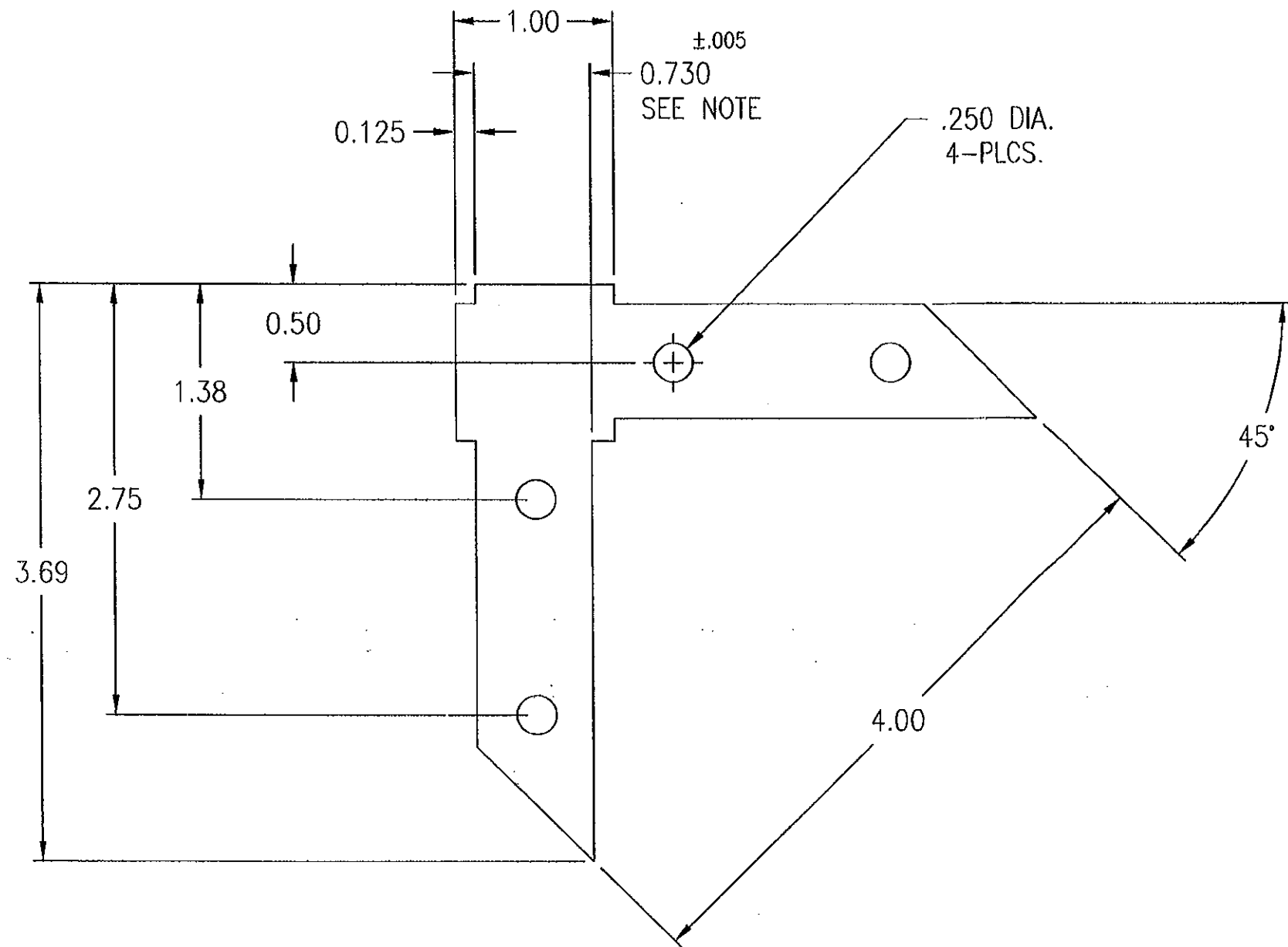


NOTE:
 1. USE STANDARD ALUMINUM ASSOCIATION TOLERANCES WILL
 APPLY UNLESS OTHERWISE SPECIFIED.

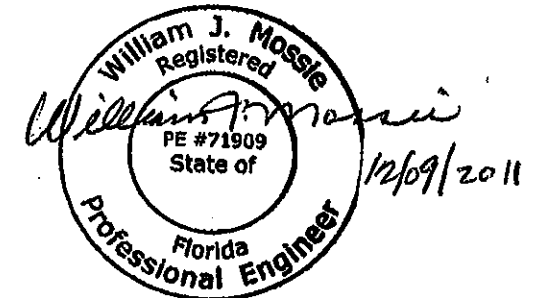
TOLERANCES:
 UNLESS OTHERWISE SPECIFIED
 DIMENSIONS:
 WITH 2 DECIMAL PLACES, ±.020
 WITH 3 DECIMAL PLACES, ±.010
 FRACTION DIMENSIONS AS MARKED.

ENGINEER OF RECORD			
William J. Mossie, PE			
ENGINEERING DISCIPLINE			
CIVIL ENGINEER			
REGISTRATION NUMBER			
STATE OF FLORIDA #71909			
DWN. BY: DDM	CHK. BY: JSB	APPV'D. BY: DVC	APPV'D. BY:
DATE: 4/2/98	DATE: 4/6/98	DATE: 4/13/98	DATE:
MAT'L. 6063-T5 EXTRUDED ALUMINUM			

(H)	ENGINEER OF RECORD AND SHEET NUMBER	WJM				12/08/11
(G)	ADDED SHEET NUMBER	DLC	DJR	DJR		5/23/7
(A)	REMOVED ENGINEERING DATA	JAL				
CHANGE LETTER	REVISION DESCRIPTION	DWN. BY:	CHK'D. BY:	APPV'D. BY:	APPV'D. BY:	DATE
	RUSKIN Mfg. Grandview, MO	PLOT SCALE		DWG. CERTIFIED		
	PROPRIETARY INFORMATION	NONE		BY: _____		
	TITLE	CD-50 BLADE		DATE: _____		
		DWG. NO.				
		60-021563-11B SHEET 12 OF 38				



NOTE:
1. .730 DIMENSION IS CRITICAL.



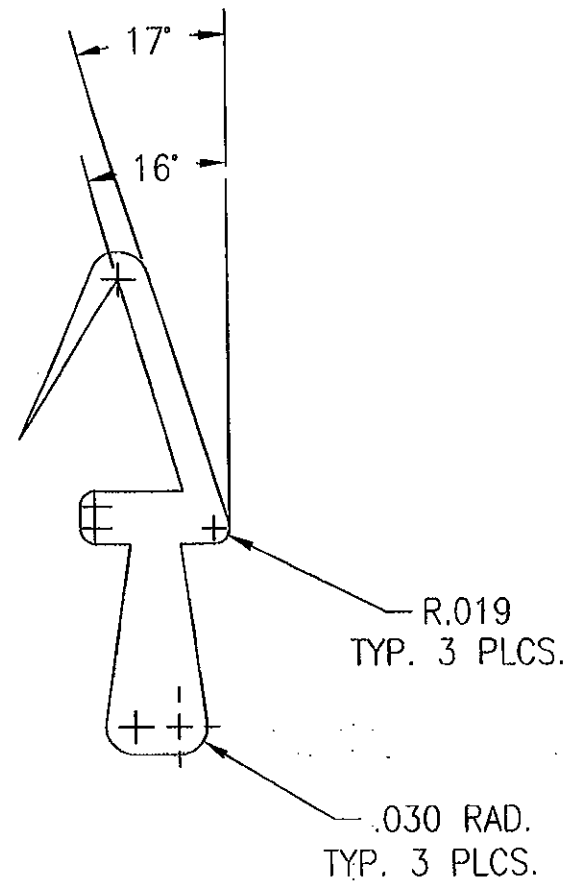
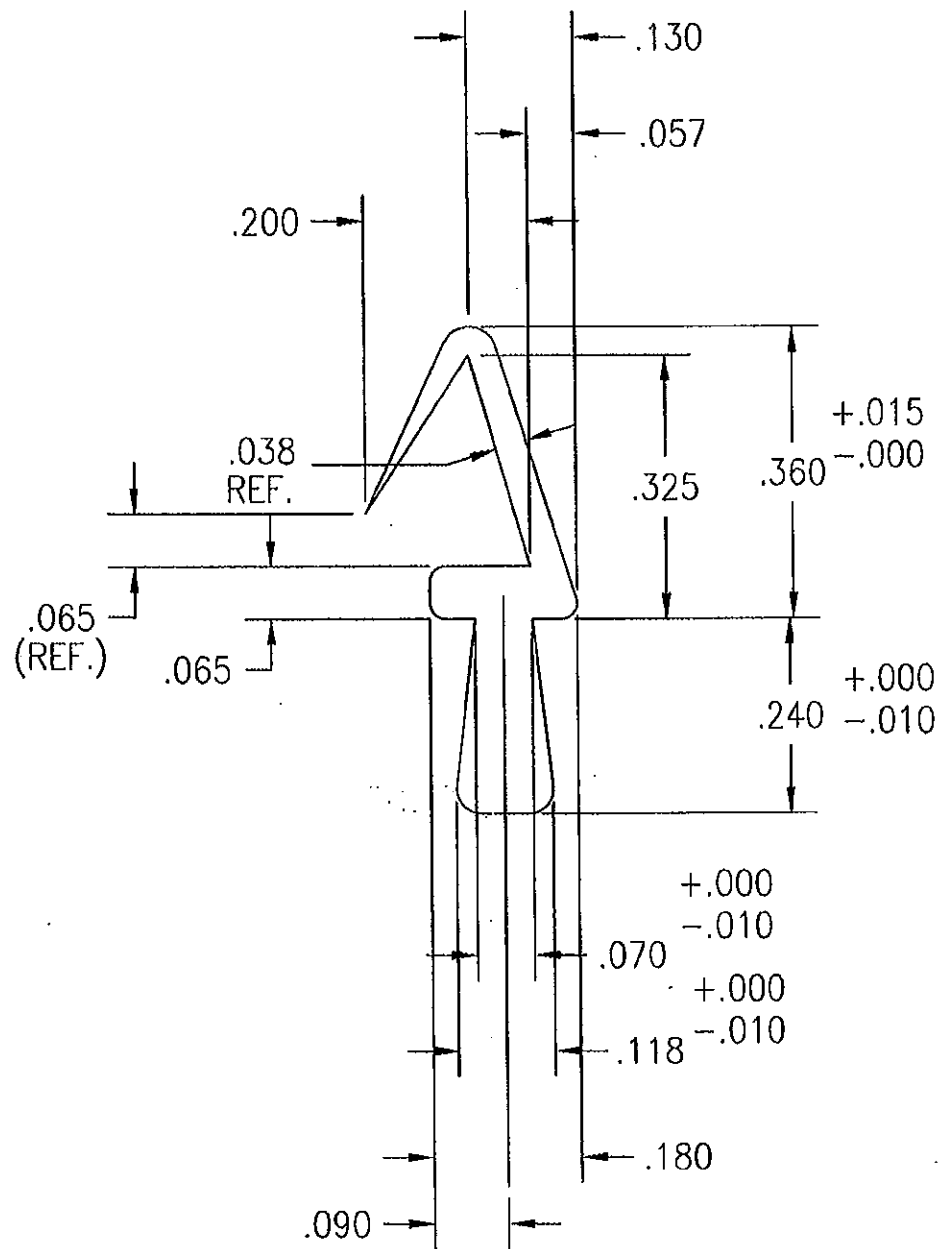
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Acceptance No 11-1229.04
Expiration Date 01/28/2017
By [Signature]
Miami Dade Product Control

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Building Code
Acceptance No 12-0628.06
Expiration Date 01/28/2017
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TOLERANCES:
UNLESS OTHERWISE SPECIFIED
DIMENSIONS:
WITH 2 DECIMAL PLACES, ±.020
WITH 3 DECIMAL PLACES, ±.010
FRACTION DIMENSIONS AS MARKED.

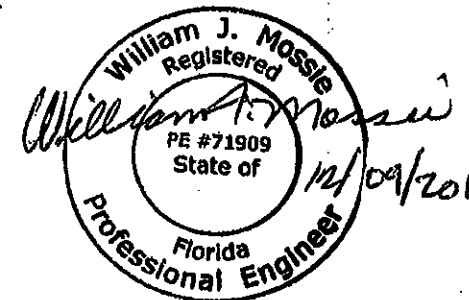
ENGINEER OF RECORD William J. Mossie, PE (H)				(H)	ENGINEER OF RECORD AND SHEET NUMBER	WJM				12/08/11
ENGINEERING DISCIPLINE CIVIL ENGINEER				(G)	ADDED SHEET NUMBER	DLC	DJR	DJR		5/23/7
REGISTRATION NUMBER STATE OF FLORIDA #71909				(A)	REMOVED ENGINEERING DATA	JAL				
DWN. BY: DDM	CHK. BY: JSB	APPV'D. BY: DVC	APPV'D. BY:	CHANGE LETTER	REVISION DESCRIPTION	DWN. BY:	CHK'D. BY:	APPV'D. BY:	APPV'D. BY:	DATE
DATE: 4/2/98	DATE: 4/6/98	DATE: 4/13/98	DATE:		RUSKIN Mfg. Grandview, MD PROPRIETARY INFORMATION					
MAT'L. .208 THK. ALUMINUM 6063-T52				TITLE ALUM. FRAME CORNER CLIP		PLOT SCALE NONE		DWG. CERTIFIED BY: _____ DATE: _____		
						DWG. NO. 60-021563-12B SHEET 13 OF 38				



↑
ACTUAL SIZE

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4 x SIZE



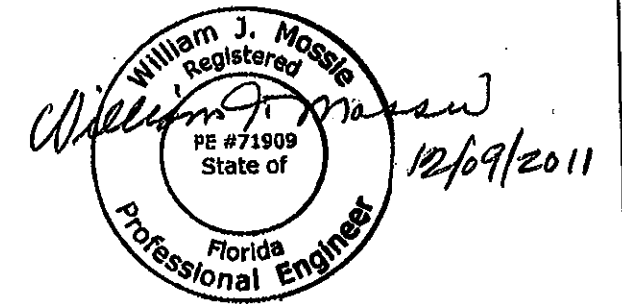
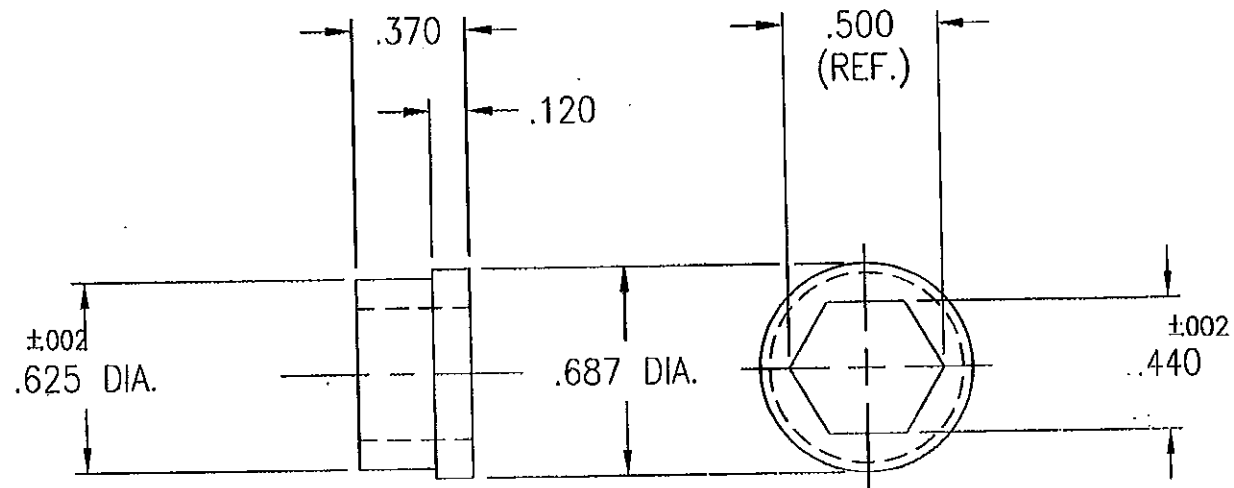
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Expiration Date 01/28/2017
By *[Signature]*
Miami Dade Product Control

NOTE: 1. BLADE SEAL IS TO BE USED ON: CD-40, 403,
50 AND 504 DAMPERS.

TOLERANCES:
UNLESS OTHERWISE SPECIFIED
DIMENSIONS:
WITH 2 DECIMAL PLACES, ±.020
WITH 3 DECIMAL PLACES, ±.010
FRACTION DIMENSIONS AS MARKED.

ENGINEER OF RECORD William J. Mossie, PE (H)		(H)	ENGINEER OF RECORD AND SHEET NUMBER	WJM				12/08/11		
ENGINEERING DISCIPLINE CIVIL ENGINEER		(G)	ADDED SHEET NUMBER	DLC	DJR	DJR		5/23/7		
REGISTRATION NUMBER STATE OF FLORIDA #71909		(A)	REMOVED ENGINEERING DATA	JAL						
DWN. BY: DDM	CHK. BY: JSB	APPV'D. BY: DVC	APPV'D. BY:	CHANGE LETTER	REVISION DESCRIPTION	DWN. BY:	CHK'D. BY:	APPV'D. BY:	APPV'D. BY:	DATE
DATE: 4/2/98	DATE: 4/6/98	DATE: 4/13/98	DATE:	RUSKIN Mfg. Grandview, MD PROPRIETARY INFORMATION		PLOT SCALE NONE		DWG. CERTIFIED BY: _____ DATE: _____		
MATERIAL: SANTOPRENE (65 DURO) REED MATERIAL XSA65-591		TITLE CONTROL DAMPER BLADE SEAL		DWG. NO. 60-021563-13B SHEET 14 OF 38						



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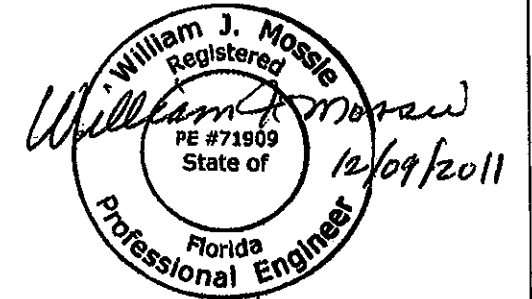
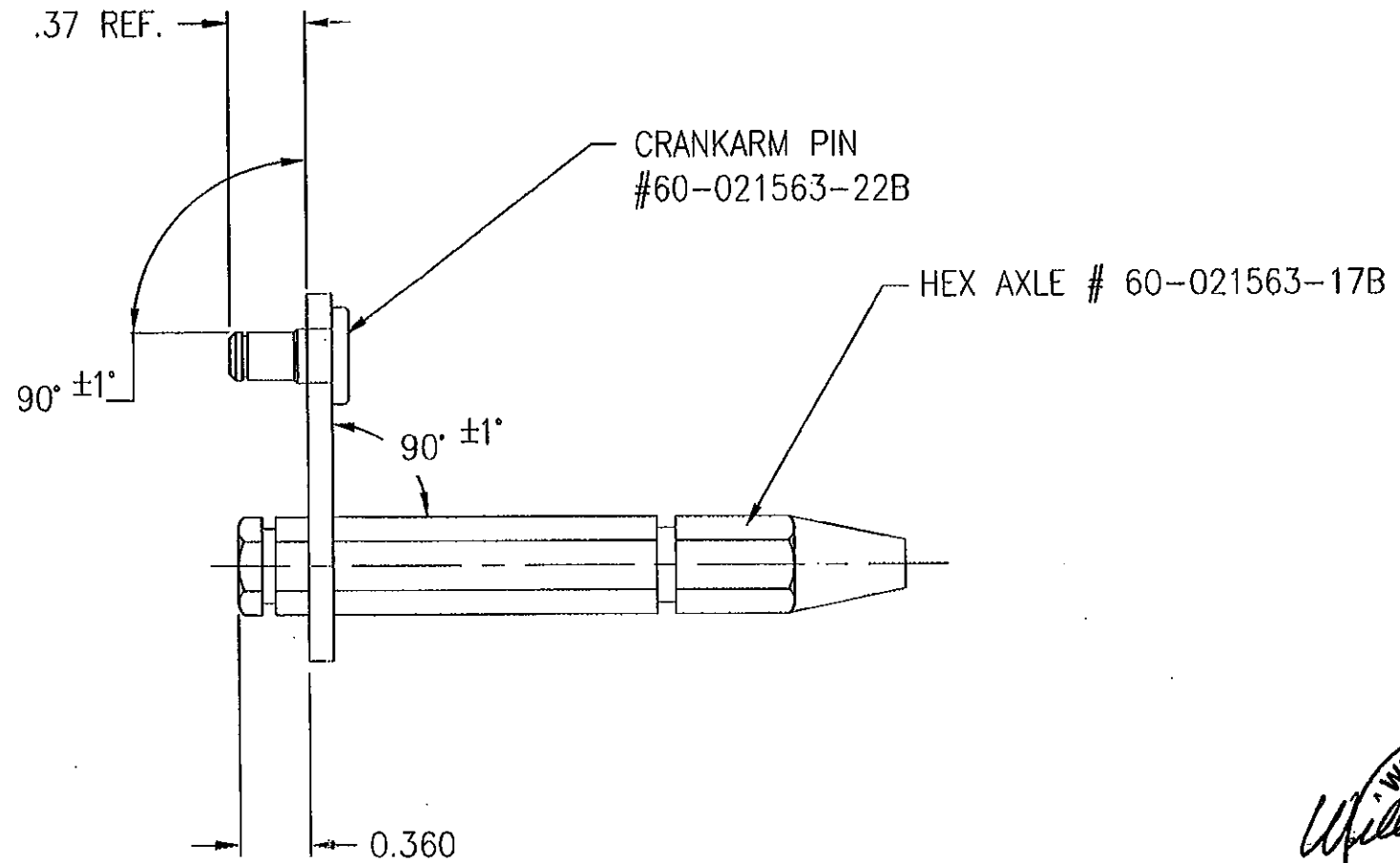
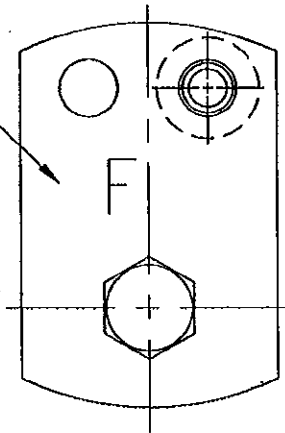
PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No. 11-1229.04
 Expiration Date 2/28/2017
 By [Signature]
 Miami Dade Product Control

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 12-0628.06
 Expiration Date 2/28/2017
 By [Signature]
 Miami Dade Product Control

TOLERANCES:
 UNLESS OTHERWISE SPECIFIED
 DIMENSIONS:
 WITH 2 DECIMAL PLACES, $\pm.020$
 WITH 3 DECIMAL PLACES, $\pm.010$
 FRACTION DIMENSIONS AS MARKED.

ENGINEER OF RECORD William J. Mossie, PE H		H ENGINEER OF RECORD AND SHEET NUMBER	WJM				12/08/11
ENGINEERING DISCIPLINE CIVIL ENGINEER		G ADDED SHEET NUMBER	DLC	DJR	DJR		5/23/7
REGISTRATION NUMBER STATE OF FLORIDA #71909		A REMOVED ENGINEERING DATA	JAL				
DWN. BY: DDM	CHK. BY: JSB	APPV'D. BY: DVC	APPV'D. BY:	CHANGE LETTER		REVISION DESCRIPTION	
DATE: 4/2/98	DATE: 4/6/98	DATE: 4/13/98	DATE:	DWN. BY:	CHK'D. BY:	APPV'D. BY:	APPV'D. BY: DATE
MAT'L. LEXAN GE141		RUSKIN Mfg. Grandview, MO PROPRIETARY INFORMATION		PLOT SCALE NONE		DWG. CERTIFIED BY: _____ DATE: _____	
		TITLE BEARING, AXLE .370 LG W/.120 FLANGE		DWG. NO. 60-021563-14B SHEET 15 OF 38			

CRANKARM PLATE
#60-021563-16B



NOTE:

- "F" INDICATES PIN IS IN RIGHT HAND HOLE.

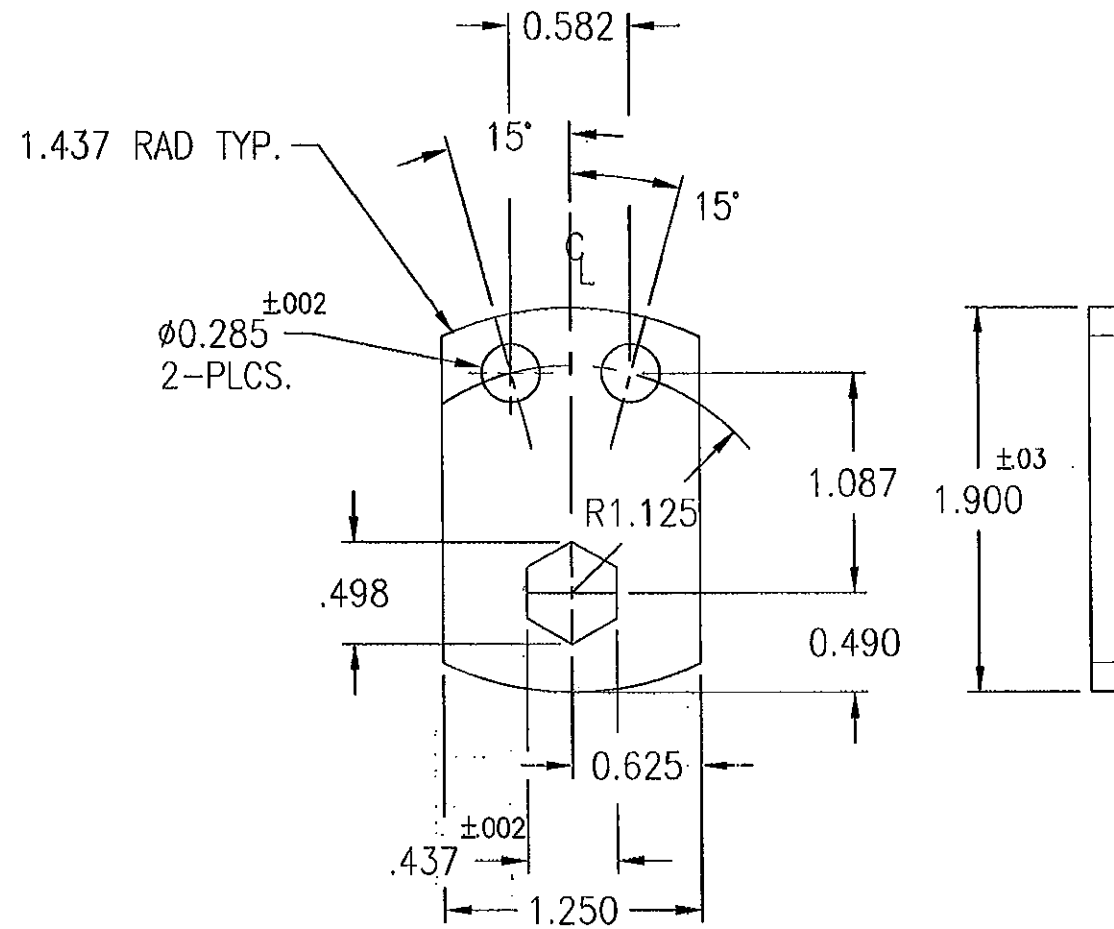
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Building Code
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Expiration Date 01/28/2017
By [Signature]
Miami Dade Product Control

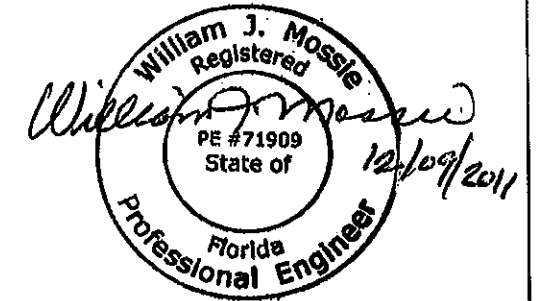
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 12-0628-06
Expiration Date 01/28/2017
By [Signature]
Miami Dade Product Control

TOLERANCES:
UNLESS OTHERWISE SPECIFIED
DIMENSIONS:
WITH 2 DECIMAL PLACES, ±.020
WITH 3 DECIMAL PLACES, ±.010
FRACTION DIMENSIONS AS MARKED.

ENGINEER OF RECORD William J. Mossie, PE		(H)	ENGINEER OF RECORD AND SHEET NUMBER	WJM				12/08/11			
ENGINEERING DISCIPLINE CIVIL ENGINEER		(G)	ADDED SHEET NUMBER	DLC	DJR	DJR		5/23/7			
REGISTRATION NUMBER STATE OF FLORIDA #71909		(A)	REMOVED ENGINEERING DATA	JAL							
DWN. BY: DDM	CHK. BY: JSB	APPV'D. BY: DVC	APPV'D. BY:	CHANGE LETTER	REVISION DESCRIPTION		DWN. BY:	CHK'D. BY:	APPV'D. BY:	APPV'D. BY:	DATE
DATE: 4/2/98	DATE: 4/6/98	DATE: 4/13/98	DATE:		RUSKIN Mfg. Grandview, MD PROPRIETARY INFORMATION		PLOT SCALE NONE	DWG. CERTIFIED BY: _____ DATE: _____			
PLTD. STL.		TITLE "F" SIDE LINKAGE CRANK-ARM ASSY		DWG. NO. 60-021563-15B SHEET 16 OF 38							



NOTE: HEX ROTATION ALIGNMENT
 $\pm 1/2^\circ$ WITH PLATE EDGE.



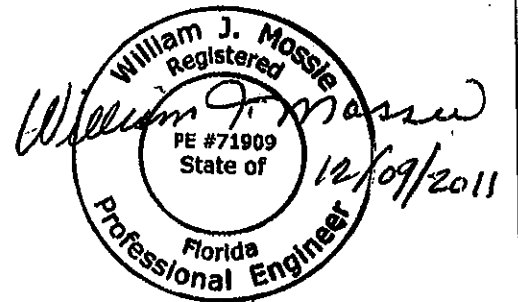
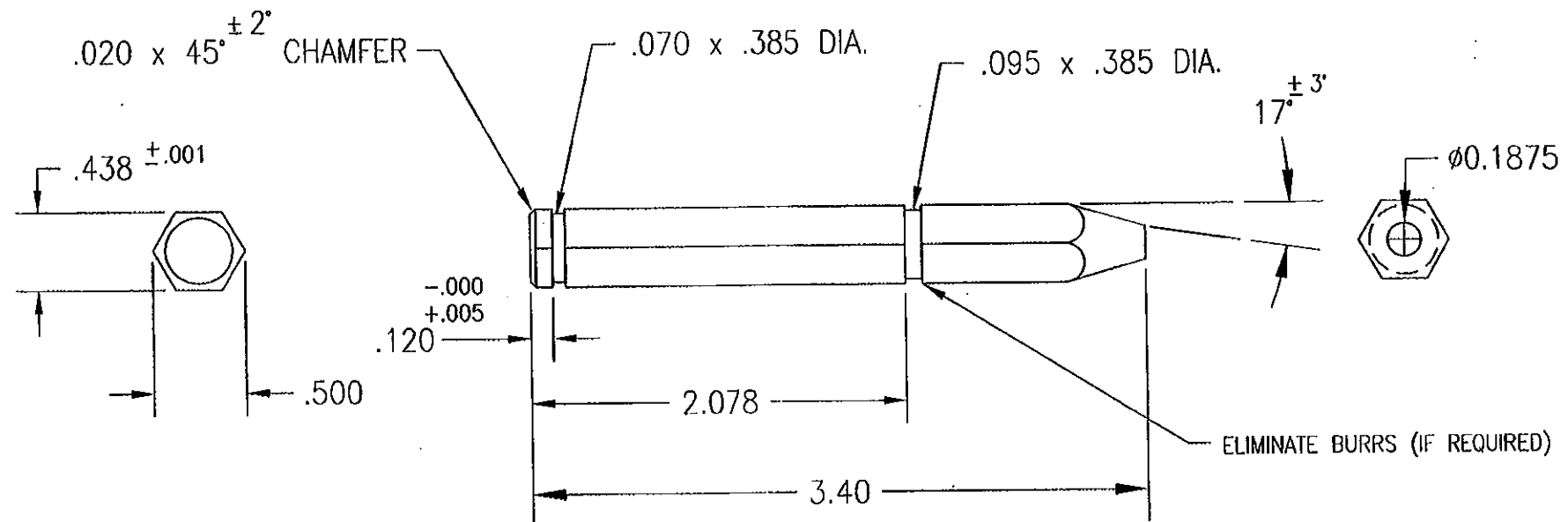
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 as complying with the Florida
 Building Code
 Acceptance No. 11-1229.04
 Expiration Date 2/28/2017
 By: *[Signature]*
 Miami Dade Product Control

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 12-0628.06
 Expiration Date 01/28/2017
 By: *[Signature]*
 Miami Dade Product Control

TOLERANCES:
 UNLESS OTHERWISE SPECIFIED
 DIMENSIONS:
 WITH 2 DECIMAL PLACES, ± 0.020
 WITH 3 DECIMAL PLACES, ± 0.010
 FRACTION DIMENSIONS AS MARKED.

ENGINEER OF RECORD William J. Mossie, PE		(H)	ENGINEER OF RECORD AND SHEET NUMBER	WJM				12/08/11		
ENGINEERING DISCIPLINE CIVIL ENGINEER		(G)	ADDED SHEET NUMBER	DLC	DJR	DJR		5/23/7		
REGISTRATION NUMBER STATE OF FLORIDA #71909		(A)	REMOVED ENGINEERING DATA	JAL						
DWN. BY: DDM	CHK. BY: JSB	APPV'D. BY: DVC	APPV'D. BY:	CHANGE LETTER	REVISION DESCRIPTION	DWN. BY:	CHK'D. BY:	APPV'D. BY:	APPV'D. BY:	DATE
DATE: 4/2/98	DATE: 4/6/98	DATE: 4/13/98	DATE:	RUSKIN Mfg. Grandview, MD PROPRIETARY INFORMATION		PLOT SCALE NONE		DWG. CERTIFIED BY: _____ DATE: _____		
10 GA. GALV.		TITLE CONCEALED LINKAGE PLATE				DWG. NO. 60-021563-16B SHEET 17 OF 38				



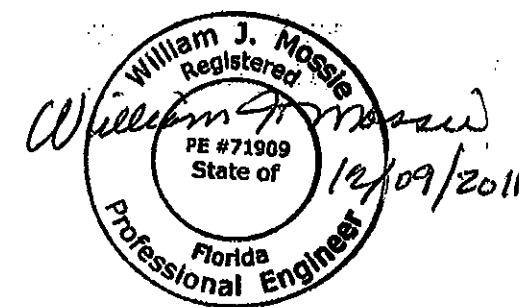
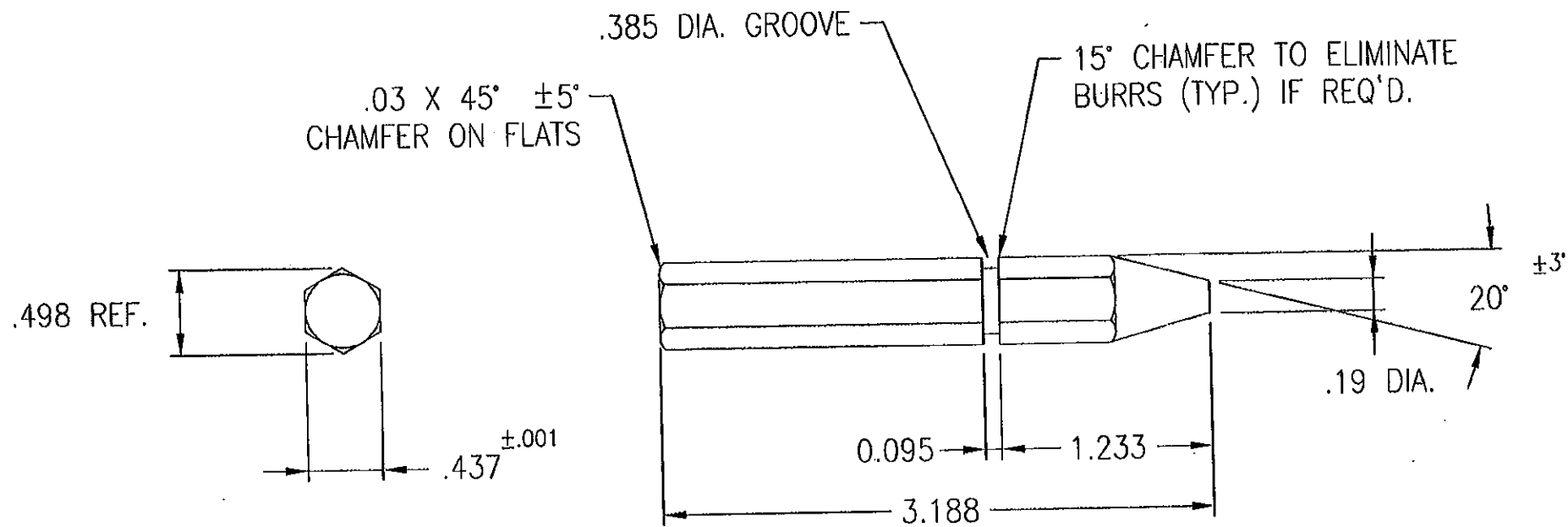
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 Expiration Date 01/28/2017
 By [Signature]
 Miami Dade Product Control

PRODUCT REVISED
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 Expiration Date 01/28/2017
 By [Signature]
 Miami Dade Product Control

TOLERANCES:
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 DIMENSIONS:
 WITH 2 DECIMAL PLACES, ±.020
 WITH 3 DECIMAL PLACES, ±.010
 FRACTION DIMENSIONS AS MARKED.

ENGINEER OF RECORD William J. Mossie, PE				[H]		ENGINEER OF RECORD AND SHEET NUMBER		WJM		12/08/11	
ENGINEERING DISCIPLINE CIVIL ENGINEER				[H]		ADDED SHEET NUMBER		DLC DJR DJR		5/23/7	
REGISTRATION NUMBER STATE OF FLORIDA #71909				[A]		REMOVED ENGINEERING DATA		JAL			
DWN. BY: DDM		CHK. BY: JSB		APPV'D. BY: DVC		APPV'D. BY:		DWN. BY:		CHK'D. BY:	
DATE: 4/2/98		DATE: 4/6/98		DATE: 4/13/98		DATE:		APPV'D. BY:		APPV'D. BY:	
TITLE 7/16" HEX STL. ZINC PLTD				CHANGE LETTER				REVISION DESCRIPTION			
RUSKIN Mfg. Grandview, MD				PROPRIETARY INFORMATION				PLOT SCALE NONE		DWG. CERTIFIED BY: _____ DATE: _____	
DWG. NO. 60-021563-17B SHEET 18 OF 38											



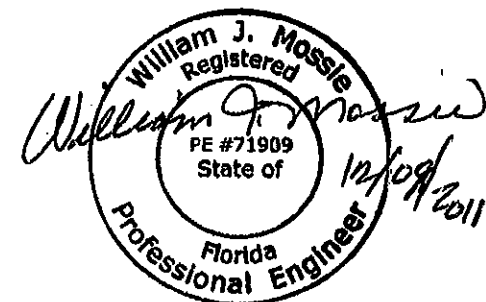
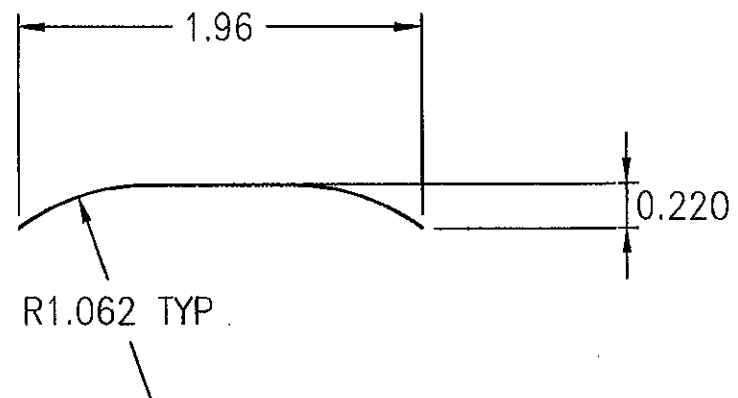
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 By [Signature]
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 By [Signature]
 Miami Dade Product Control

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 DIMENSIONS:
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 WITH 3 DECIMAL PLACES, ±.010
 FRACTION DIMENSIONS AS MARKED.

ENGINEER OF RECORD William J. Mossie, PE		(H)	ENGINEER OF RECORD AND SHEET NUMBER	WJM				12/08/11				
ENGINEERING DISCIPLINE CIVIL ENGINEER		(G)	ADDED SHEET NUMBER	DLC	DJR	DJR		5/23/7				
REGISTRATION NUMBER STATE OF FLORIDA #71909		(A)	REMOVED ENGINEERING DATA	JAL								
DWN. BY: DDM	CHK. BY: JBS	APPV'D. BY: DVC	APPV'D. BY:	CHANGE LETTER	REVISION DESCRIPTION			DWN. BY:	CHK'D. BY:	APPV'D. BY:	APPV'D. BY:	DATE
DATE: 4/2/98	DATE: 4/6/98	DATE: 4/13/98	DATE:	RUSKIN Mfg. Grandview, MD PROPRIETARY INFORMATION			PLOT SCALE NONE		DWG. CERTIFIED BY: _____ DATE: _____			
7/16" HEX STL. ZINC PLTD				TITLE 7/16" HEX IDLER AXLE			DWG. NO. 60-021563-18B SHEET 19 OF 38					



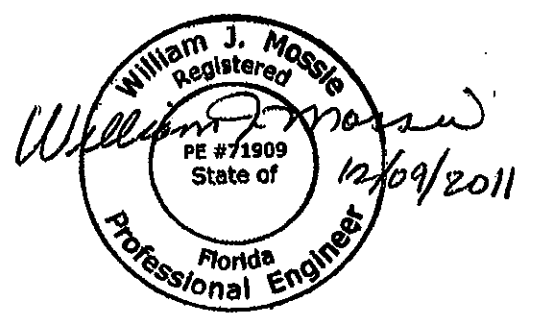
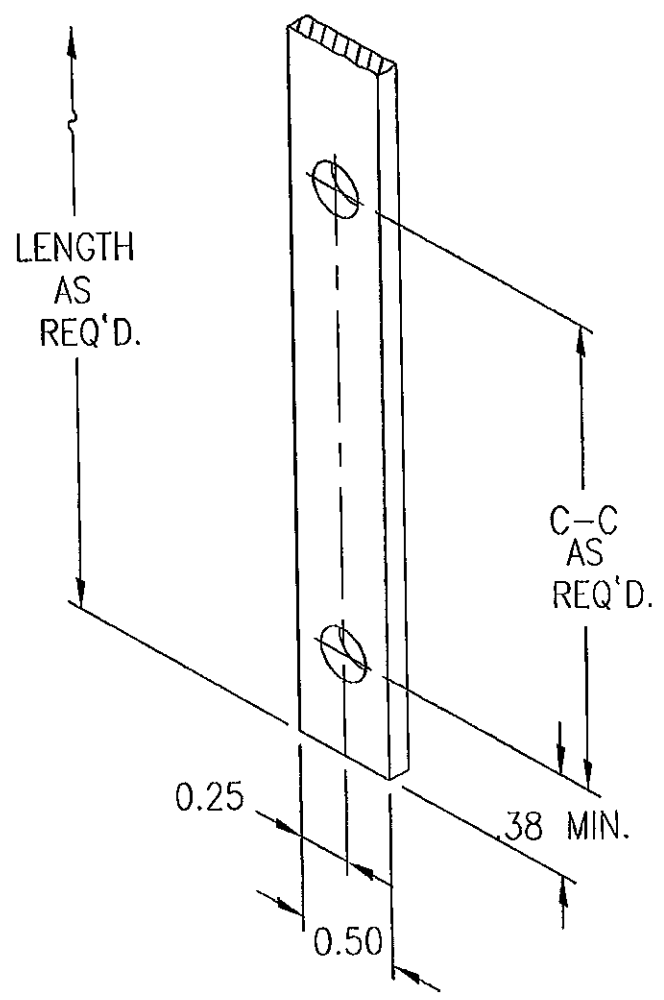
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 WITH 3 DECIMAL PLACES, ±.010
 FRACTION DIMENSIONS AS MARKED.

ENGINEER OF RECORD William J. Mossie, PE (H)				(H)	ENGINEER OF RECORD AND SHEET NUMBER	WJM				12/08/11
ENGINEERING DISCIPLINE CIVIL ENGINEER				(G)	ADDED SHEET NUMBER	DLC	DJR	DJR		5/23/7
REGISTRATION NUMBER STATE OF FLORIDA #71909				(A)	REMOVED ENGINEERING DATA	JAL				
DWN. BY: DDM	CHK. BY: JSB	APPV'D. BY: DVC	APPV'D. BY:	CHANGE LETTER	REVISION DESCRIPTION	DWN. BY:	CHK'D. BY:	APPV'D. BY:	APPV'D. BY:	DATE
DATE: 4/2/97	DATE: 4/6/98	DATE: 4/13/98	DATE:		RUSKIN Mfg. Grandview, MD PROPRIETARY INFORMATION					
MAT'L. .007" THK. TYPE 301 STN. STL. SPRING					TITLE JAMB SEAL	PLOT SCALE NONE		DWG. CERTIFIED BY: _____ DATE: _____		
						DWG. NO. 60-021563-19B SHEET 20 OF 38				



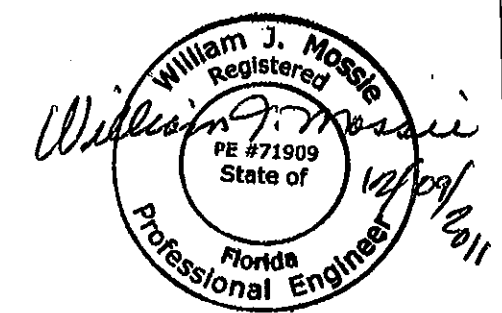
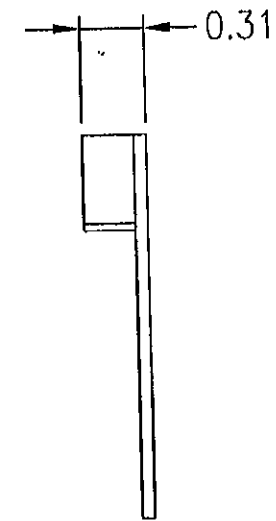
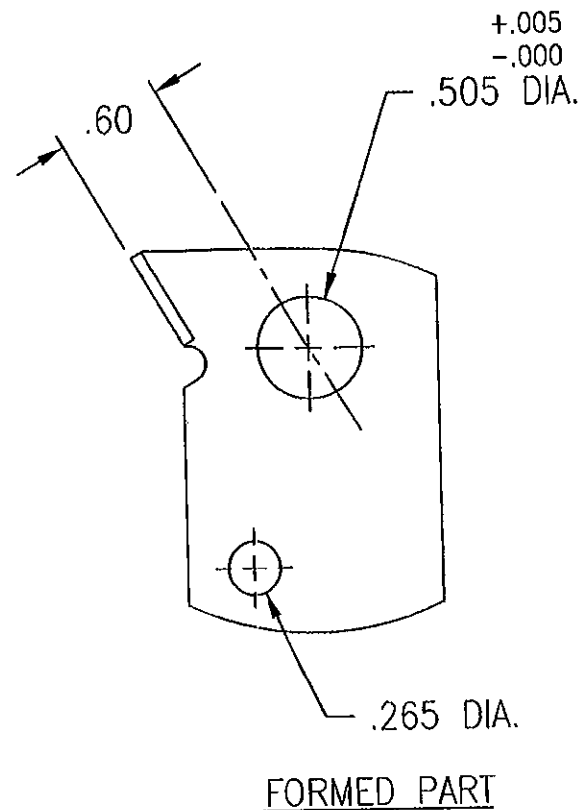
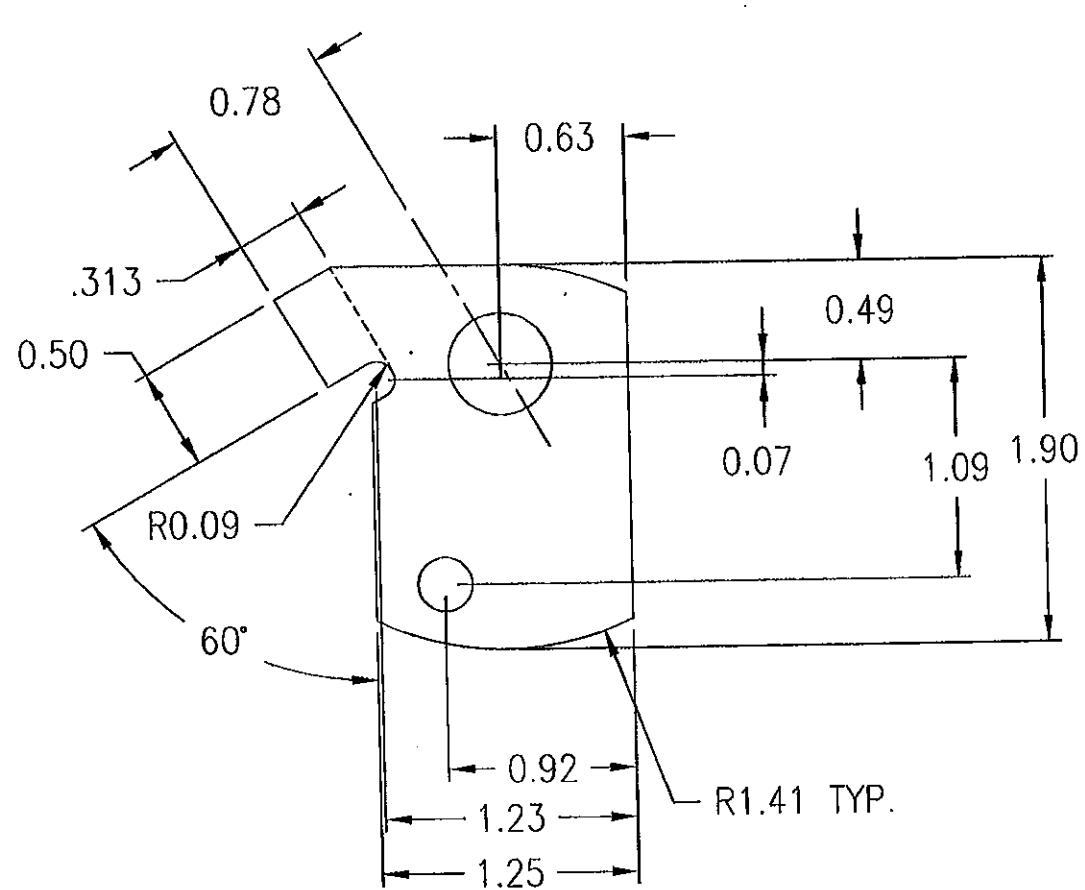
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 By [Signature]
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 WITH 3 DECIMAL PLACES, ±.010
 FRACTION DIMENSIONS AS MARKED.

ENGINEER OF RECORD William J. Mossie, PE		(H)	ENGINEER OF RECORD AND SHEET NUMBER	WJM				12/8/11				
ENGINEERING DISCIPLINE CIVIL ENGINEER		(G)	ADDED SHEET NUMBER	DLC	DJR	DJR		5/23/7				
REGISTRATION NUMBER STATE OF FLORIDA #71909		(A)	REMOVED ENGINEERING DATA	JAL								
DWN. BY: DDM	CHK. BY: JSB	APPV'D. BY: DVC	APPV'D. BY:	CHANGE LETTER	REVISION DESCRIPTION			DWN. BY:	CHK'D. BY:	APPV'D. BY:	APPV'D. BY:	DATE
DATE: 4/2/98	DATE: 4/6/98	DATE: 4/13/98	DATE:	RUSKIN Mfg. Grandview, MD PROPRIETARY INFORMATION			PLOT SCALE NONE		DWG. CERTIFIED BY: _____ DATE: _____			
MATL: 12 GA GALV.			TITLE LINKAGE TIEBAR			DWG. NO. 60-021563-20B SHEET 21 OF 38						



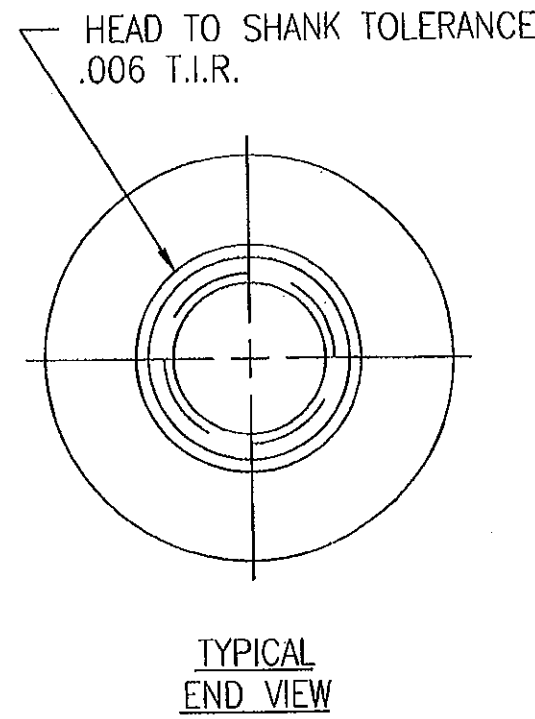
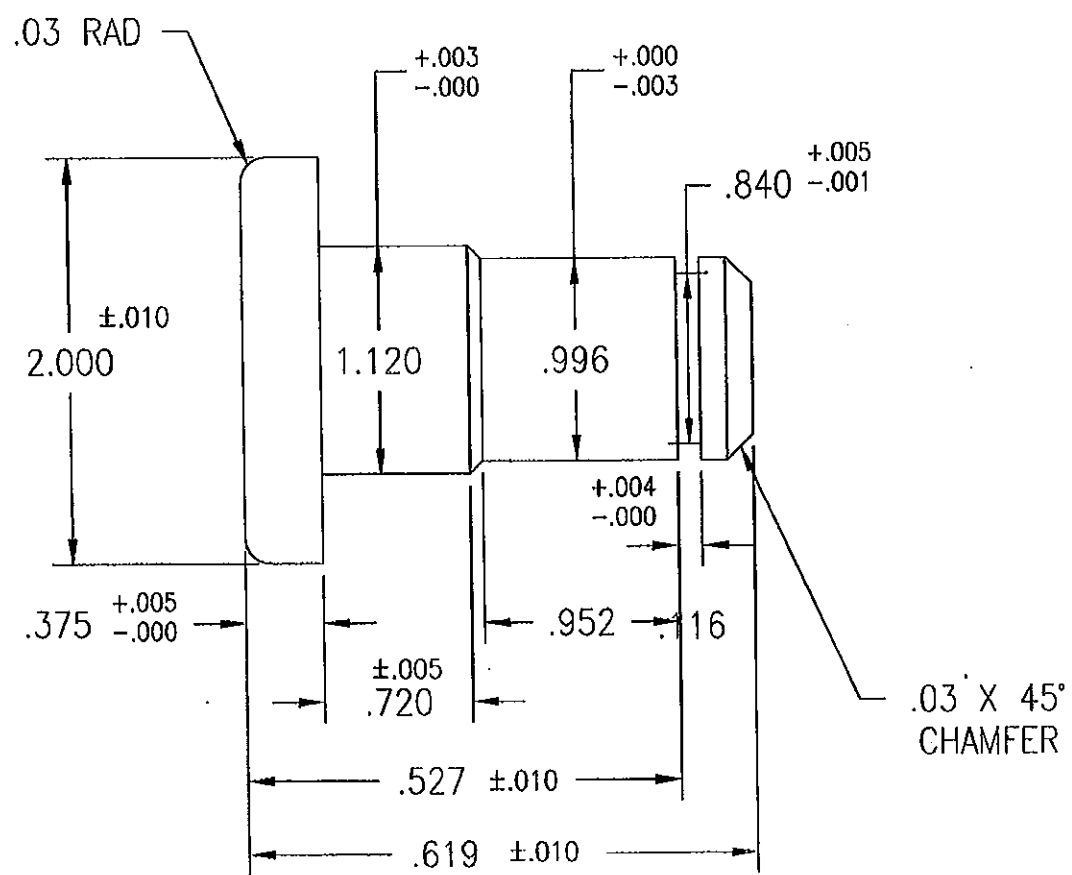
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By [Signature]
Miami Trade Product Control

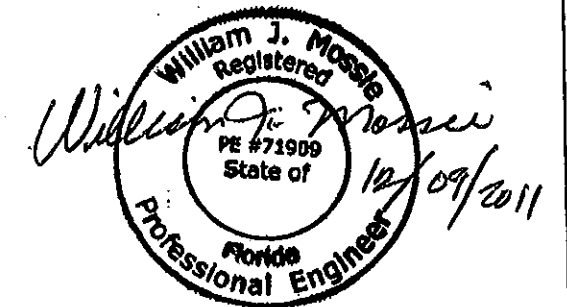
PRODUCT REVISED
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Acceptance No 12-0628.06
Expiration Date 2/128/2017
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Miami Trade Product Control

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WITH 3 DECIMAL PLACES, ±.010
FRACTION DIMENSIONS AS MARKED.

ENGINEER OF RECORD William J. Mossie, PE		[H]		ENGINEER OF RECORD AND SHEET NUMBER		WJM				12/8/11		
ENGINEERING DISCIPLINE CIVIL ENGINEER		[G]		ADDED SHEET NUMBER		DLC		DJR		DJR		5/23/7
REGISTRATION NUMBER STATE OF FLORIDA #71909		[A]		REMOVED ENGINEERING DATA		JAL						
DWN. BY: DDM	CHK. BY: JSB	APPV'D. BY: DVC	APPV'D. BY:	CHANGE LETTER	REVISION DESCRIPTION	DWN. BY:	CHK'D. BY:	APPV'D. BY:	APPV'D. BY:	DATE		
DATE: 4/2/98	DATE: 4/6/98	DATE: 4/13/98	DATE:	RUSKIN Mfg. Grandview, MD PROPRIETARY INFORMATION		PLOT SCALE NONE		DWG. CERTIFIED BY: _____ DATE: _____				
MAT'L. 16 GA. GALV.				TITLE CONCEALED LINKAGE OVER-TRAVEL STOP		DWG. NO. 60-021563-21B		SHEET 22 OF 38				



PIN FOR 10 GA. THK
LINKAGE ARM



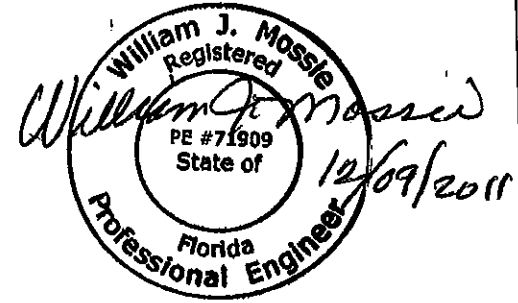
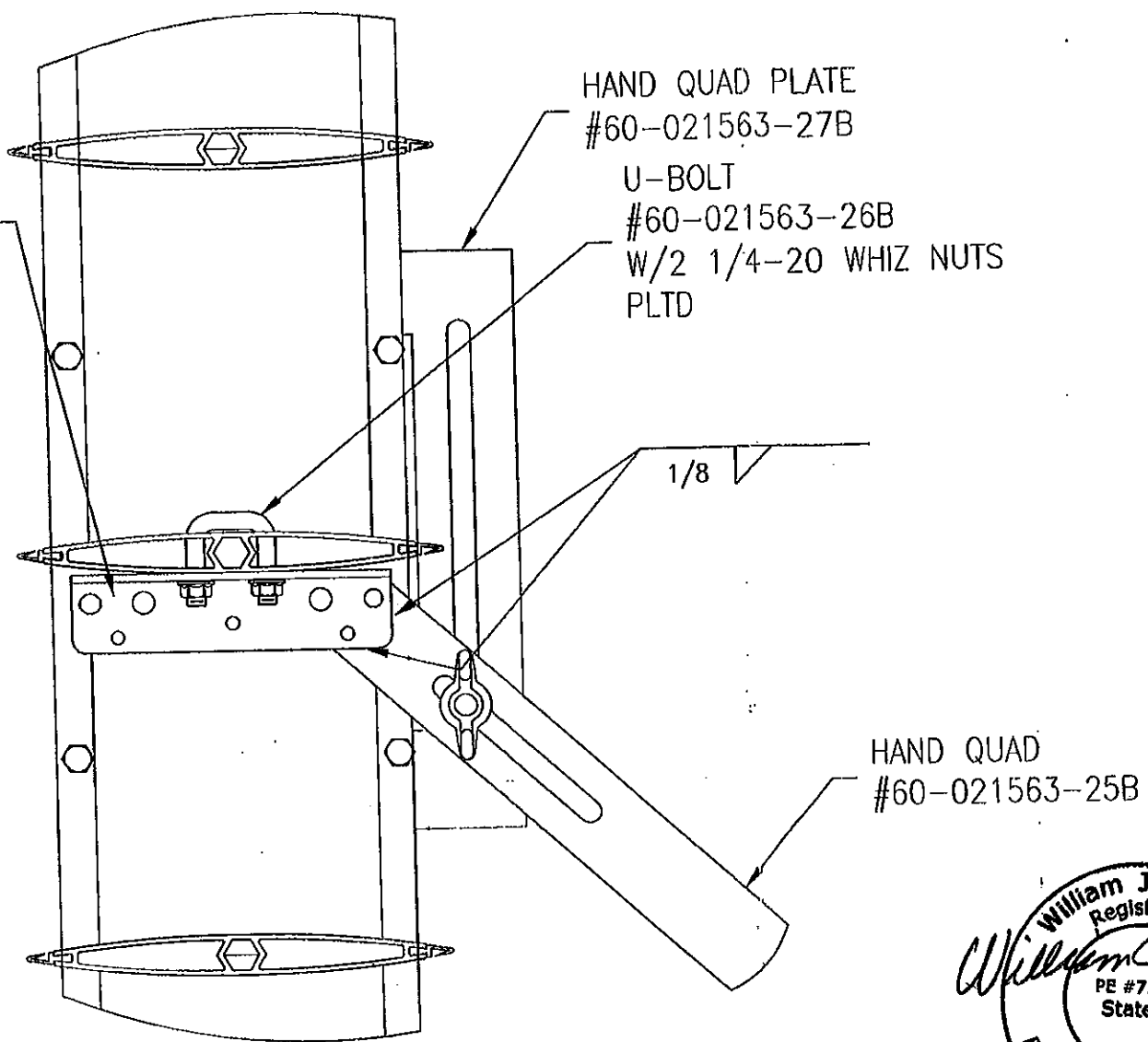
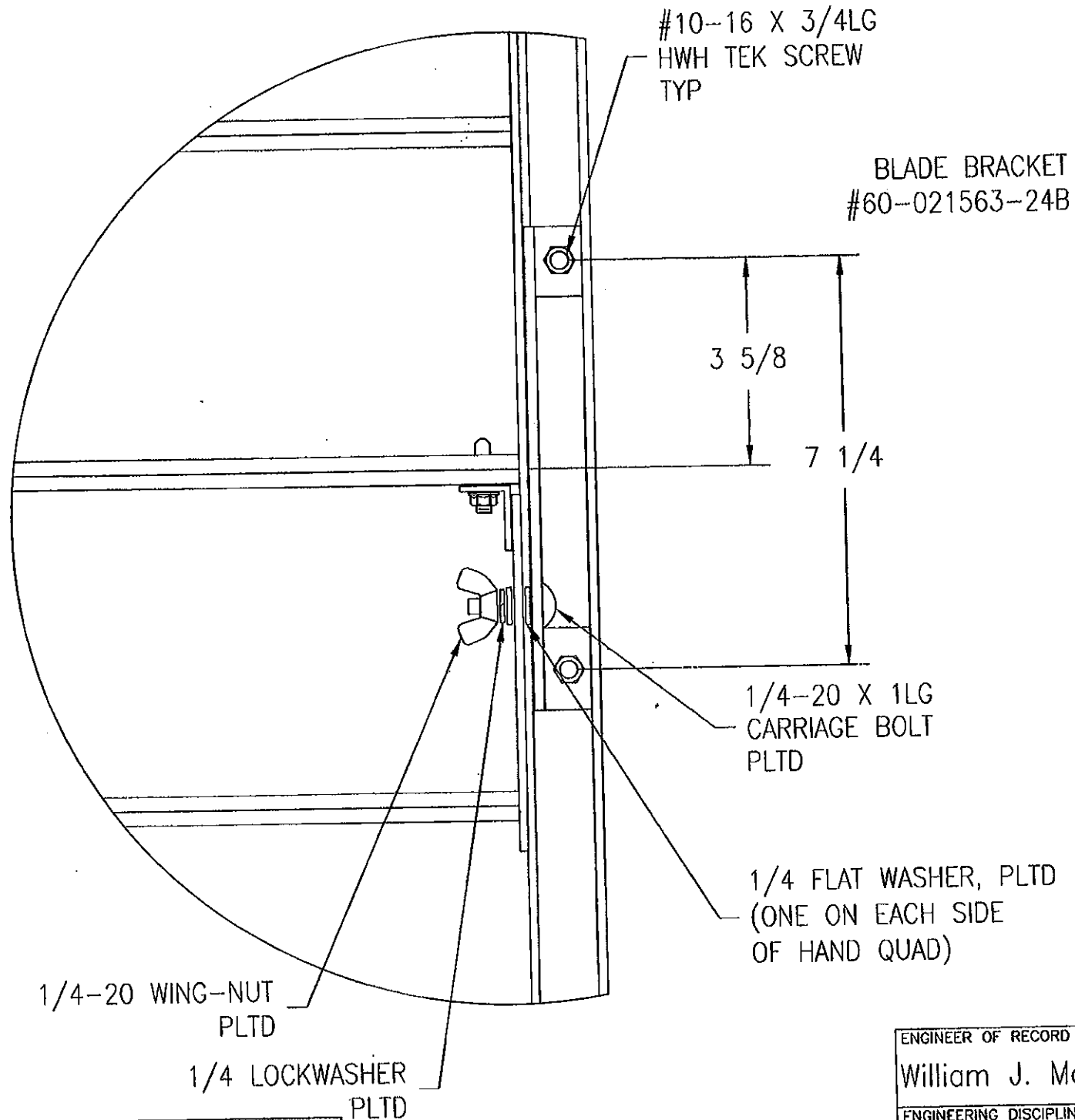
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WITH 3 DECIMAL PLACES, ±.010
FRACTION DIMENSIONS AS MARKED.

ENGINEER OF RECORD William J. Mossie, PE (H)		(H)	ENGINEER OF RECORD AND SHEET NUMBER	WJM				12/8/11		
ENGINEERING DISCIPLINE CIVIL ENGINEER		(G)	ADDED SHEET NUMBER	DLC	DJR	DJR		5/23/7		
REGISTRATION NUMBER STATE OF FLORIDA #71909		(A)	REMOVED ENGINEERING DATA	JAL						
DWN. BY: DDM	CHK. BY: JSB	APPV'D. BY: DVC	APPV'D. BY:	CHANGE LETTER	REVISION DESCRIPTION	DWN. BY:	CHK'D. BY:	APPV'D. BY:	APPV'D. BY:	DATE
DATE: 4/2/98	DATE: 4/6/98	DATE: 4/13/98	DATE:		RUSKIN Mfg. Grandview, MD PROPRIETARY INFORMATION					
MATERIAL: 305 SS		TITLE CRANK PIN		PLOT SCALE NONE		DWG. CERTIFIED BY: DATE:		DWG. NO. 60-021563-22B SHEET 23 OF 38		

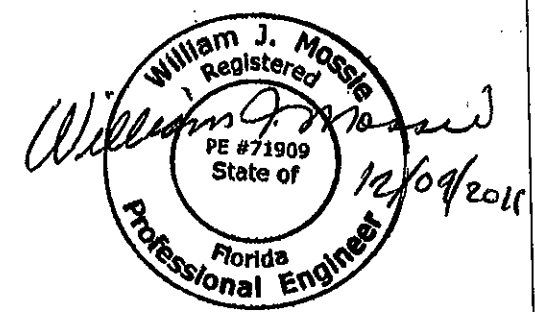
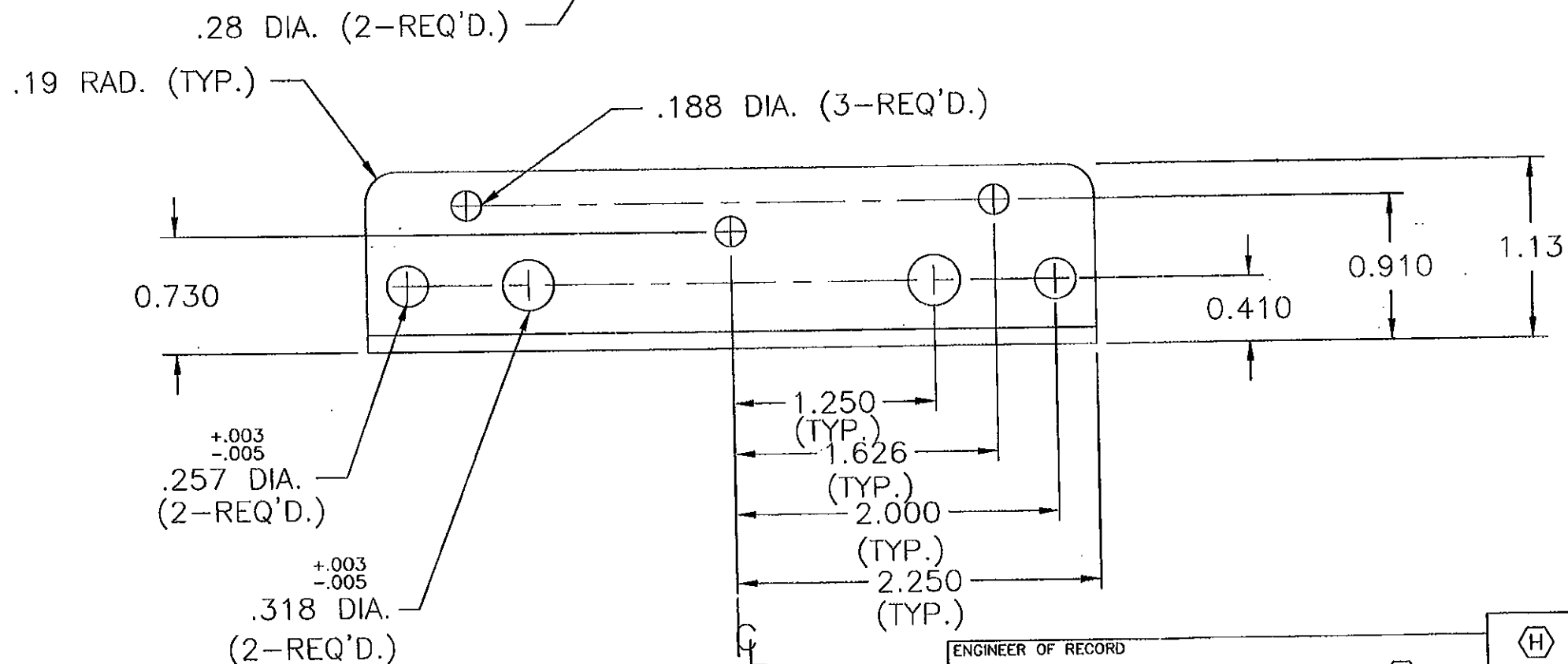
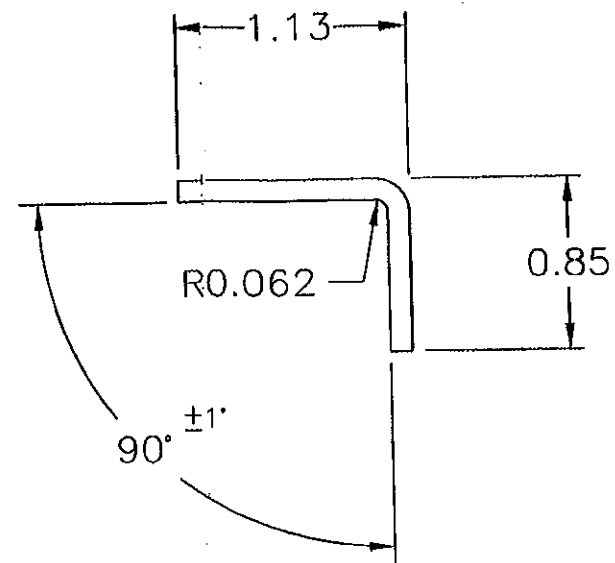
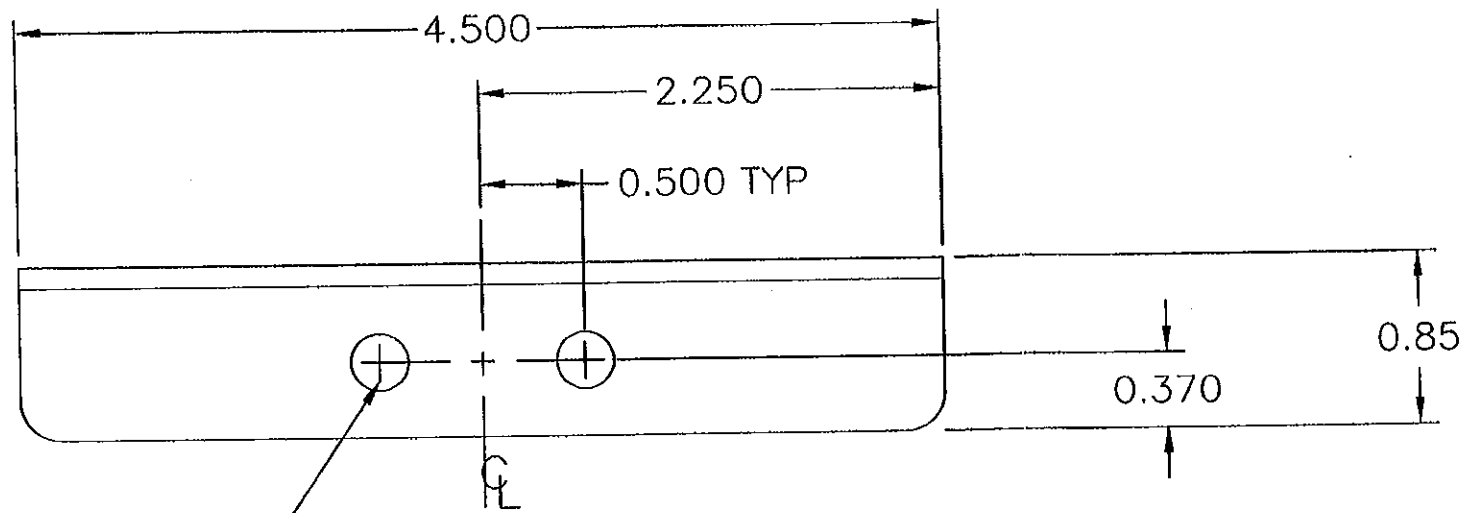


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ENGINEER OF RECORD William J. Mossie, PE		H		ENGINEER OF RECORD AND SHEET NUMBER		WJM				12/8/11
ENGINEERING DISCIPLINE CIVIL ENGINEER		H		G		DLC	DJR	DJR		5/23/7
REGISTRATION NUMBER STATE OF FLORIDA #71909		A		REMOVED ENGINEERS DATA		JAL	VMA			4-17-98
DWN. BY: DDM	CHK. BY: JSB	APPV'D. BY: DVC	APPV'D. BY:	CHANGE LETTER	REVISION DESCRIPTION	DWN. BY:	CHK'D. BY:	APPV'D. BY:	APPV'D. BY:	DATE
DATE: 4/2/98	DATE: 4/6/98	DATE: 4/13/98	DATE:		RUSKIN Mfg. Grandview, MO					
PROPRIETARY INFORMATION						PLOT SCALE NONE		DWG. CERTIFIED BY: _____ DATE: _____		
TITLE HAND QUAD CD-50 DAMPER						DWG. NO. 60-021563-23B SHEET 24 OF 38				



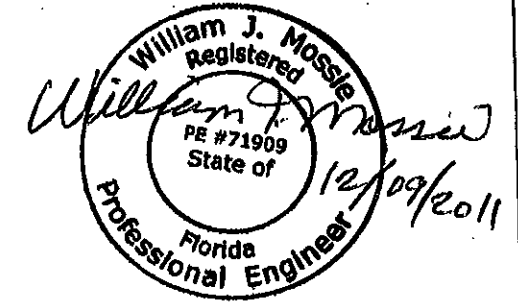
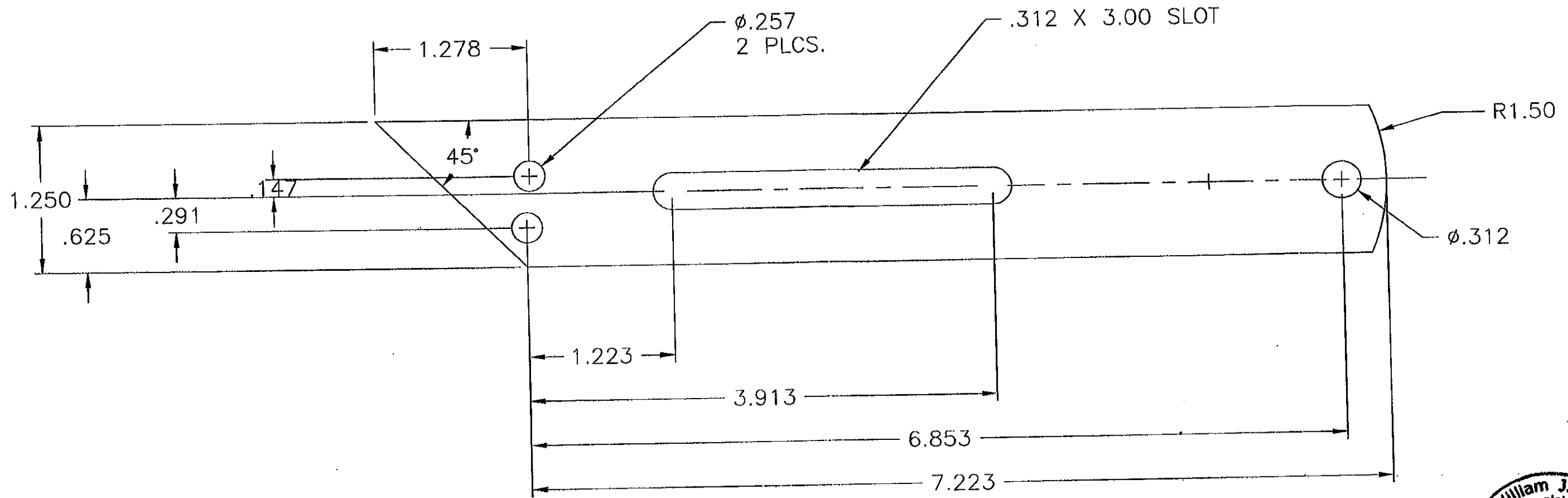
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 WITH 3 DECIMAL PLACES, ±.010
 FRACTION DIMENSIONS AS MARKED.

ENGINEER OF RECORD William J. Mossie, PE (H)		(H)	ENGINEER OF RECORD AND SHEET NUMBER	WJM				12/8/11				
ENGINEERING DISCIPLINE CIVIL ENGINEER		(G)	ADDED SHEET NUMBER	DLC	DJR	DJR		5/23/7				
REGISTRATION NUMBER STATE OF FLORIDA #71909		(A)	REMOVED ENGINEERS DATA	JAL								
DWN. BY: DDM	CHK. BY: JSB	APPV'D BY: DVC	APPV'D BY:	CHANGE LETTER	REVISION DESCRIPTION			DWN. BY:	CHK'D. BY:	APPV'D. BY:	APPV'D. BY:	DATE
DATE: 4/2/98	DATE: 4/6/98	DATE: 4/13/98	DATE:	RUSKIN Mfg. Grandvlew, MI PROPRIETARY INFORMATION			PLOT SCALE NONE		DWG. CERTIFIED BY: _____ DATE: _____			
MATL: 12 GA. GALV.		TITLE AIRFOIL BLADE BRKT			DWG. NO. 60-021563-24B SHEET 25 OF 38							

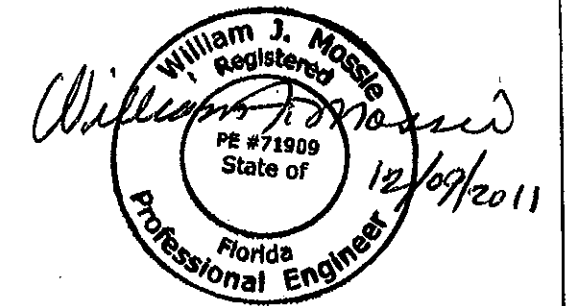
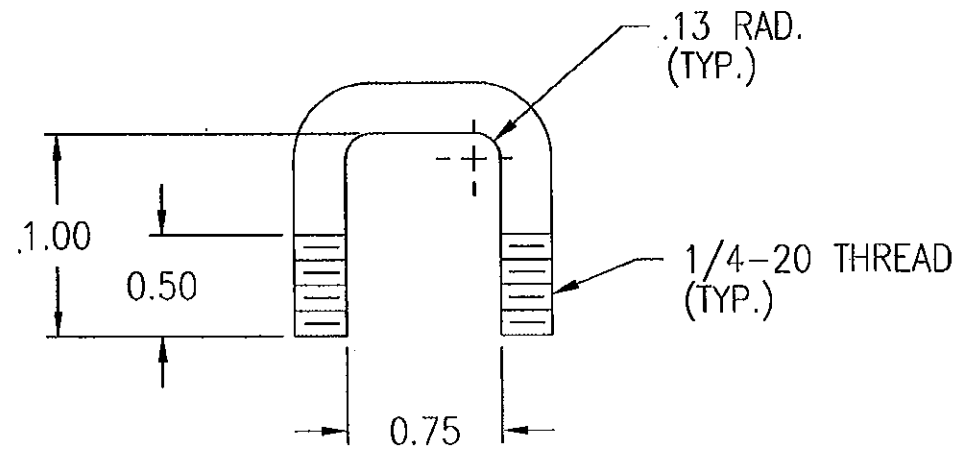


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ENGINEER OF RECORD William J. Mossie, PE (H)		(H)	ENGINEER OF RECORD AND SHEET NUMBER	WJM					12/8/11				
ENGINEERING DISCIPLINE CIVIL ENGINEER		(G)	ADDED SHEET NUMBER	DLC	DJR	DJR			5/23/7				
REGISTRATION NUMBER STATE OF FLORIDA #71909		(A)	REMOVED ENGINEERS DATA	JAL									
DWN. BY: DDM	CHK. BY: JSB	APPV'D. BY: DVC	APPV'D. BY:	CHANGE LETTER	REVISION DESCRIPTION				DWN. BY:	CHK'D. BY:	APPV'D. BY:	APPV'D. BY:	DATE
DATE: 4/2/98	DATE: 4/6/98	DATE: 4/13/98	DATE:	RUSKIN Mfg. Grandview, MD PROPRIETARY INFORMATION				PLOT SCALE NONE		DWG. CERTIFIED BY: _____ DATE: _____			
10 GA GALV STL				TITLE HAND QUAD ARM				DWG. NO. 60-021563-25B SHEET 26 OF 38					



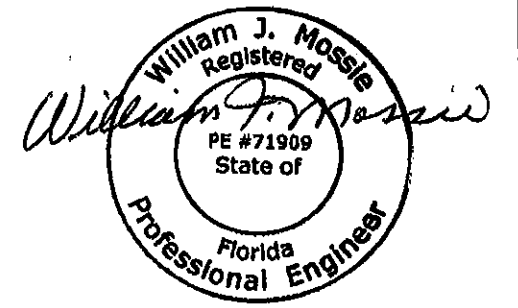
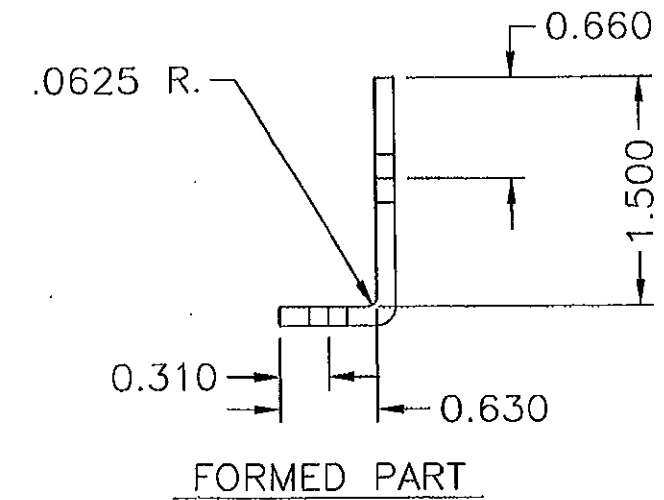
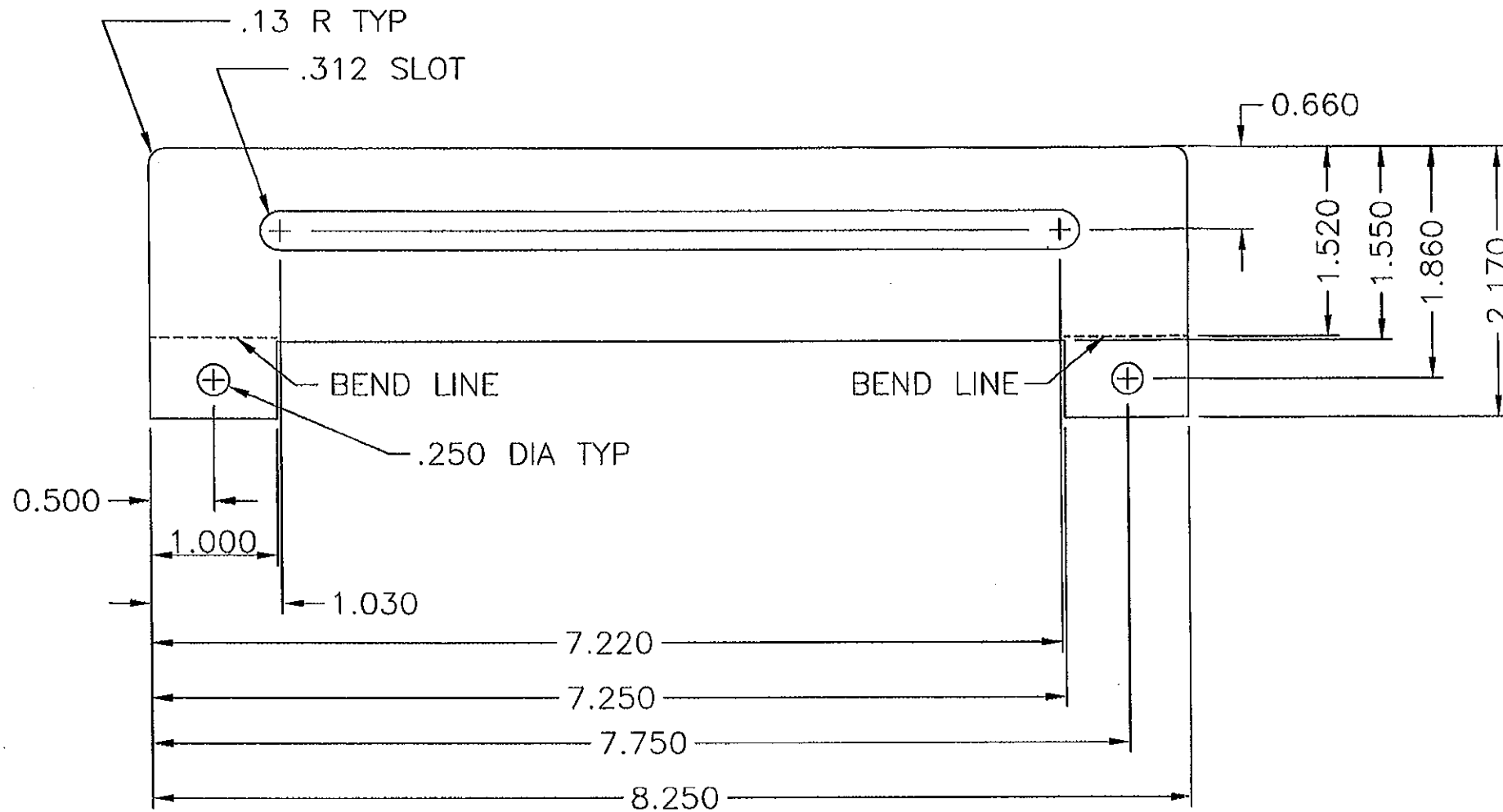
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 WITH 3 DECIMAL PLACES, ±.010
 FRACTION DIMENSIONS AS MARKED.

ENGINEER OF RECORD William J. Mossie, PE				(H)	ENGINEER OF RECORD AND SHEET NUMBER	WJM				12/8/11
ENGINEERING DISCIPLINE CIVIL ENGINEER				(G)	ADDED SHEET NUMBER	DLC	DJR	DJR		5/23/7
REGISTRATION NUMBER STATE OF FLORIDA #71909				(A)	REMOVED ENGINEERS DATA	JAL				
OWN. BY: DDM	CHK. BY: JSB	APPV'D. BY: DVC	APPV'D. BY:	CHANGE LETTER	REVISION DESCRIPTION	DWN. BY:	CHK'D. BY:	APPV'D. BY:	APPV'D. BY:	DATE
DATE: 4/2/98	DATE: 4/6/98	DATE: 4/13/98	DATE:	RUSKIN Mfg. Grandview, MO PROPRIETARY INFORMATION		PLOT SCALE NONE		DWG. CERTIFIED BY: _____ DATE: _____		
1/4" DIA. PLTD. STL.				TITLE U-BOLT		DWG. NO. 60-021563-26B SHEET 27 OF 38				



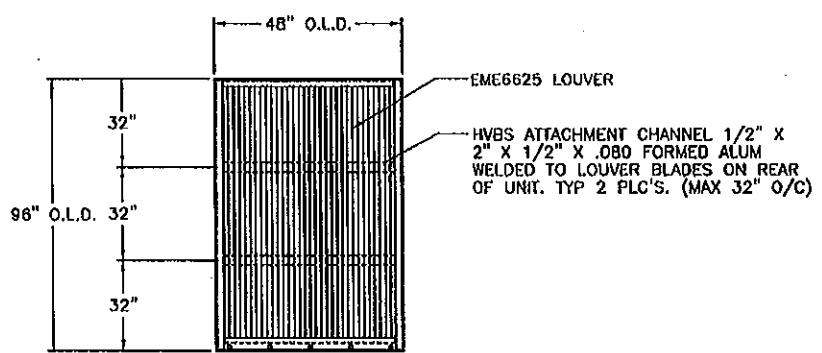
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By [Signature]
Miami Dade Product Control

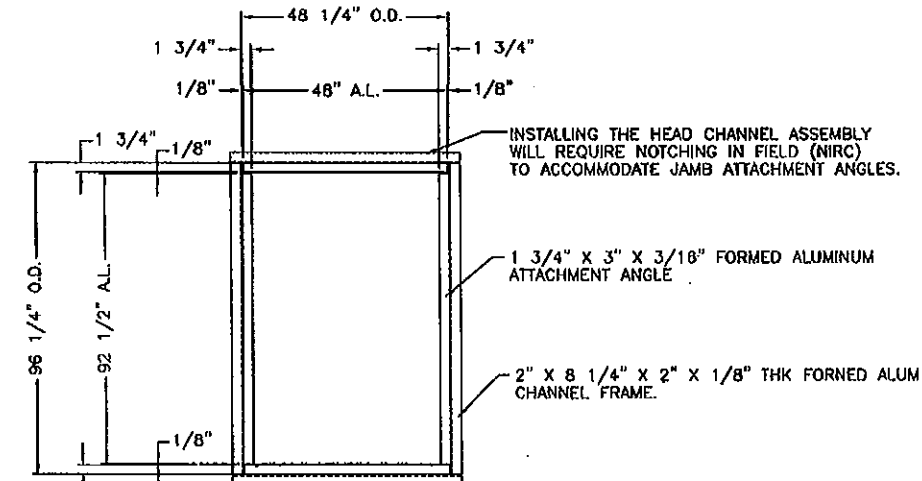
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 12-0628-06
Expiration Date 01/28/2017
By [Signature]
Miami Dade Product Control

TOLERANCES:
UNLESS OTHERWISE SPECIFIED
DIMENSIONS:
WITH 2 DECIMAL PLACES, ±.020
WITH 3 DECIMAL PLACES, ±.010
FRACTION DIMENSIONS AS MARKED.

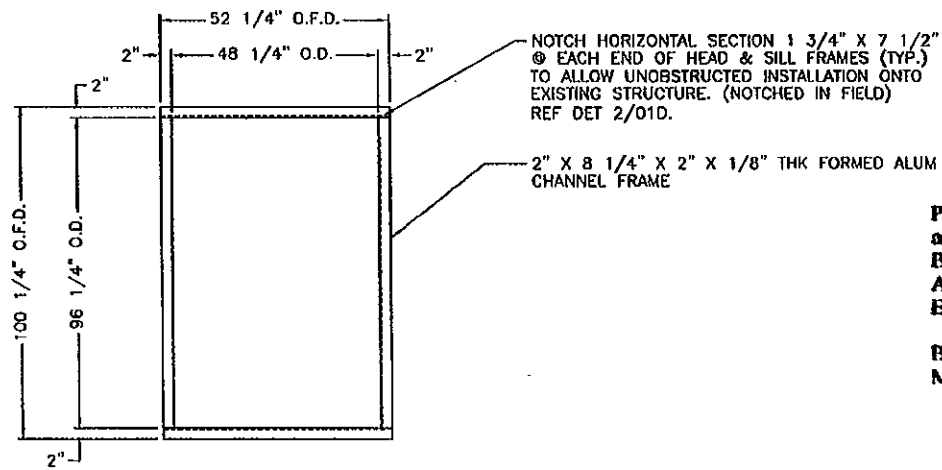
ENGINEER OF RECORD William J. Mossie, PE (H)				(H)	ENGINEER OF RECORD AND SHEET NUMBER	WJM				12/8/11
ENGINEERING DISCIPLINE CIVIL ENGINEER				(G)	ADDED SHEET NUMBER	DLC	DJR	DJR		5/23/7
REGISTRATION NUMBER STATE OF FLORIDA #71909				(A)	REMOVED ENGINEERS DATA	JAL				
DWN. BY: DDM	CHK. BY: JSB	APPV'D. BY: DVC	APPV'D. BY:	CHANGE LETTER	REVISION DESCRIPTION	DWN. BY:	CHK'D. BY:	APPV'D. BY:	APPV'D. BY:	DATE
DATE: 4/2/98	DATE: 4/6/98	DATE: 4/13/98	DATE:		RUSKIN Mfg. Grandview, MD PROPRIETARY INFORMATION	PLOT SCALE 3/4=1	DWG. CERTIFIED BY: _____ DATE: _____			
MAT'L 12 GA GALV. STEEL				TITLE HAND QUADRANT PLATE		DWG. NO. 60-021563-27B SHEET 28 OF 38				



EME6625 LOUVER ASSEMBLY "C"
 NTS DESIGN PRESSURE RATING +160/ -140 PSF FRONT VIEW
 SEE SECTION DETAILS -06D FOR APPLICABILITY



CHANNEL FRAME & ATT ANGLE ELEVATION
 REAR VIEW



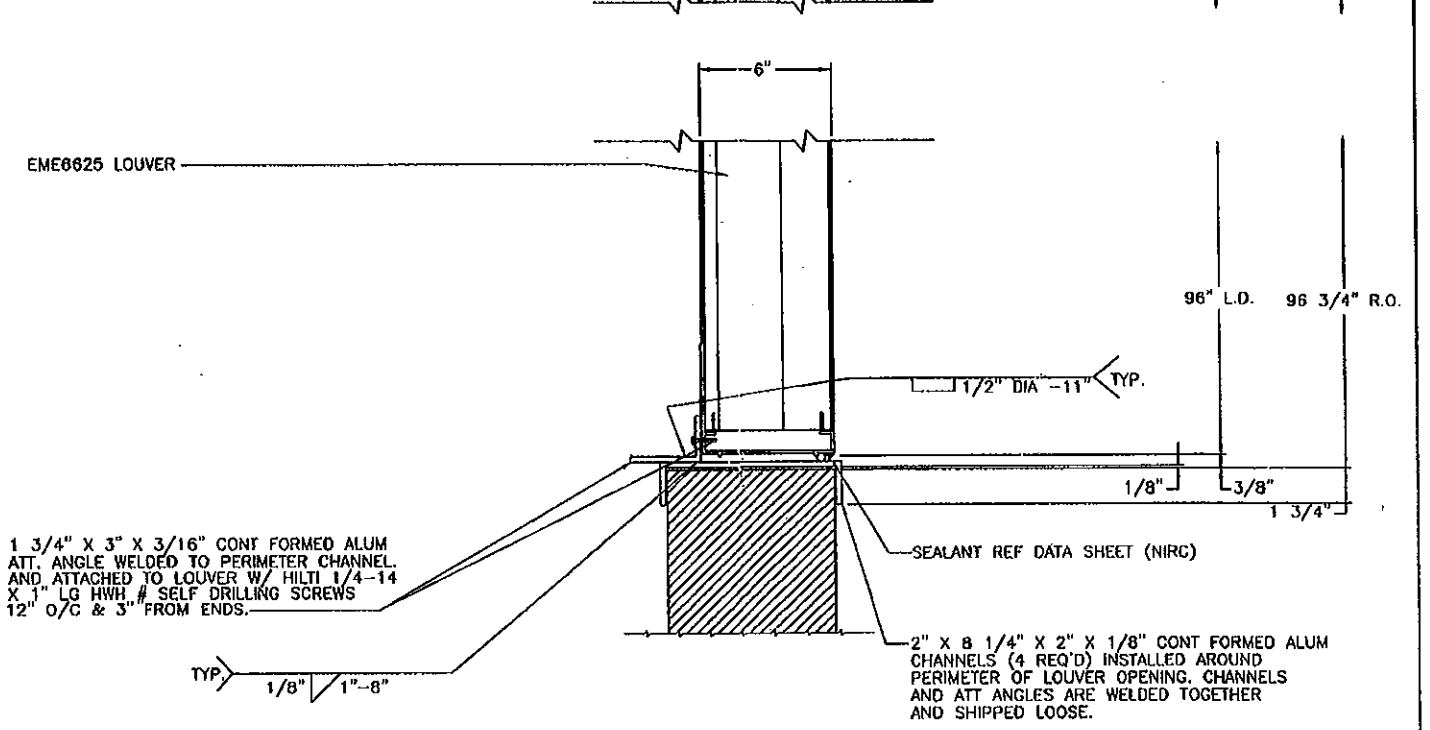
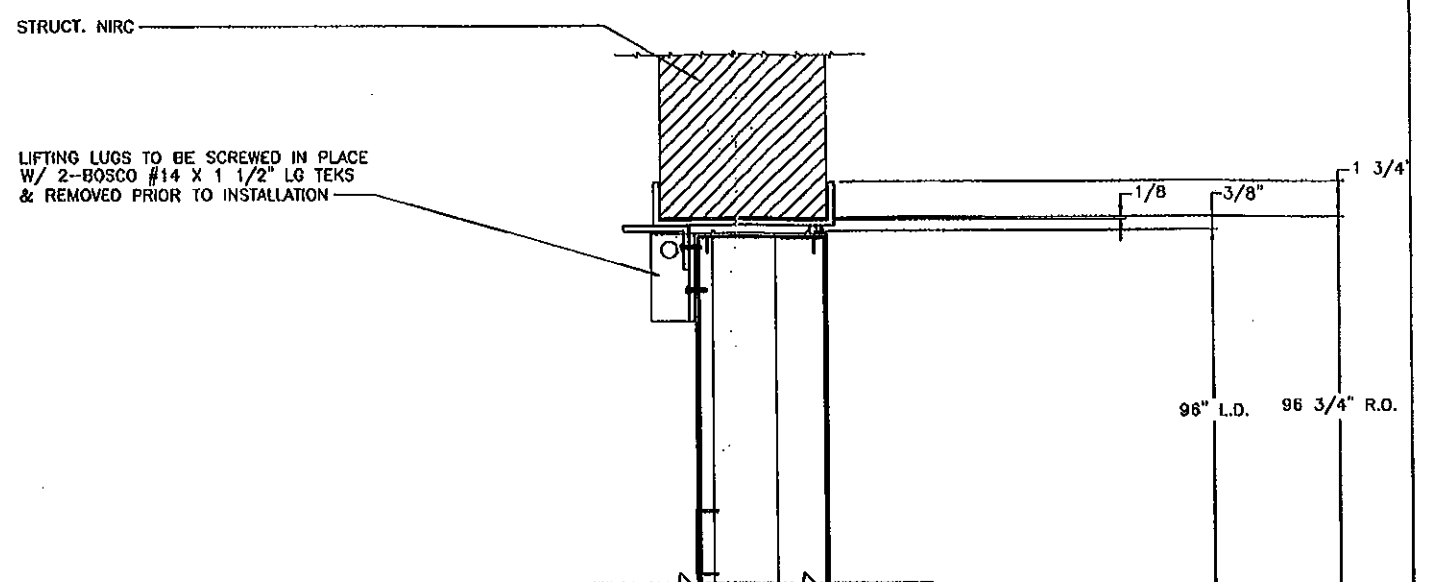
CHANNEL FRAME ELEVATION
 FRONT VIEW

REAR & FRONT ELEVATION VIEW OF CHANNEL FRAME & ATT. ANGLE
 N.T.S.

- LEGEND:**
- O.F.D. = OUTSIDE FRAME DIM.
 - R.O. = ROUGH OPENING
 - A.L. = ANGLE LENGTH
 - O.D. = OPENING DIM.
 - N.T.S. = NOT TO SCALE
 - NIRC = NOT IN RUSKIN CONTRACT
 - HVBS = HIDDEN VERTICAL BLADE SUPPORT.
 - SSD = SHIP SECTION DIM.
 - L.D. = LOUVER DIM.
 - DIM. = DIMENSION
 - SIM = SIMILAR

- NOTES:**
- THE STRUCTURAL SUBSTRATE THAT HOLDS THE LOUVER IN PLACE, IS ASSUMED TO BE STRUCTURALLY SOUND AND STABLE TO TAKE THE LOADS DISPERSED BY THE LOUVER.
 - LOUVER IS NONBEARING AND IS NOT DESIGNED TO WITHSTAND BUILDING DEADLOADS.

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EME6625 SECTION (JAMB SIM TO HEAD)
 3\"/>

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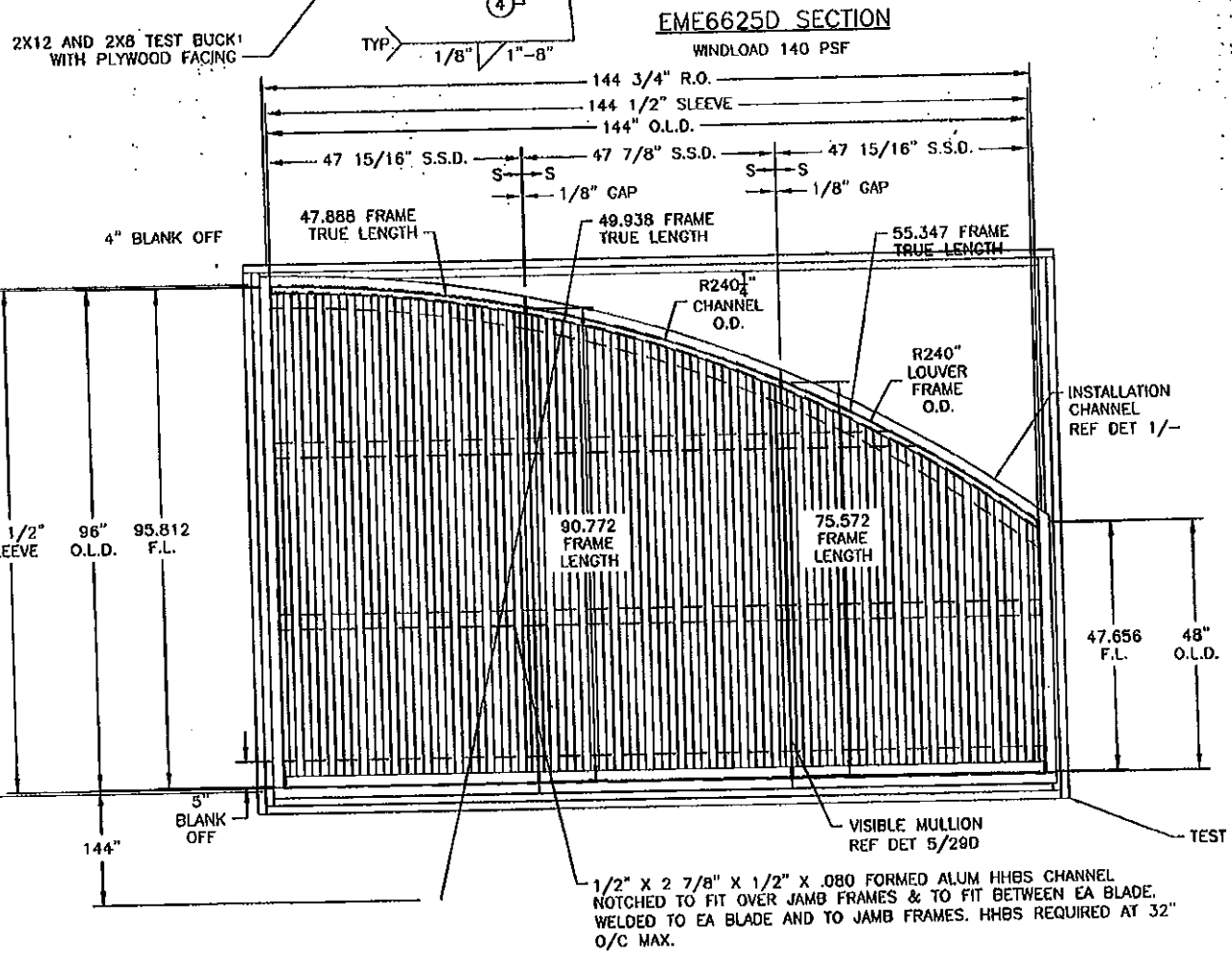
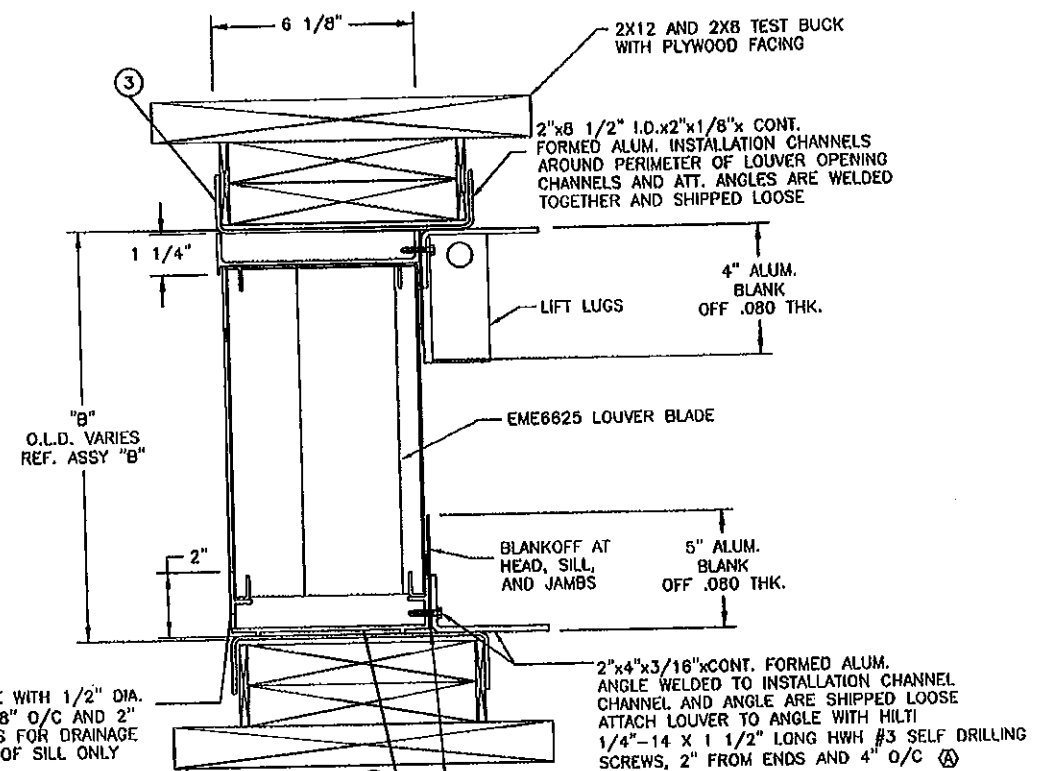
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FOR FASTENER LOADS REF DWG. 60-021617-06D.

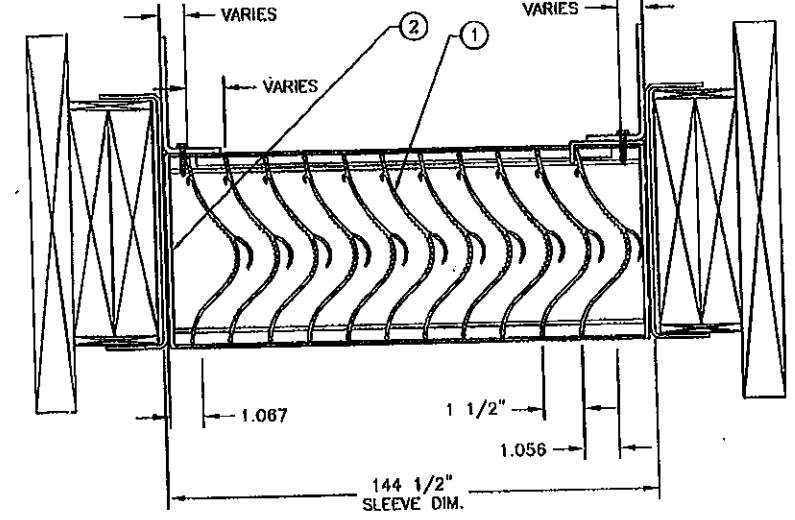


ENGINEER OF RECORD AND SHEET NUMBER WILLIAM J. MOSSIE, PE CIVIL ENGINEER		WJM 12/8/11
REGISTERED NUMBER STATE OF FLORIDA #71909		ADDED SHEET NUMBER DLC DJR DJR 5/23/12
CHANGE LETTER NONE	REVISION DESCRIPTION RUSKIN Mtg 3900 DR. Greaves RD Grandview, FL 34050 PROPRIETARY INFORMATION	DATE NONE
TITLE LOUVER DAMPER ASSY - DADE CITY, FLORIDA		SHEET NO. EME6625D LOUVER ASSEMBLIES & SECTIONS 60-021563-28D SHEET 29 OF 38

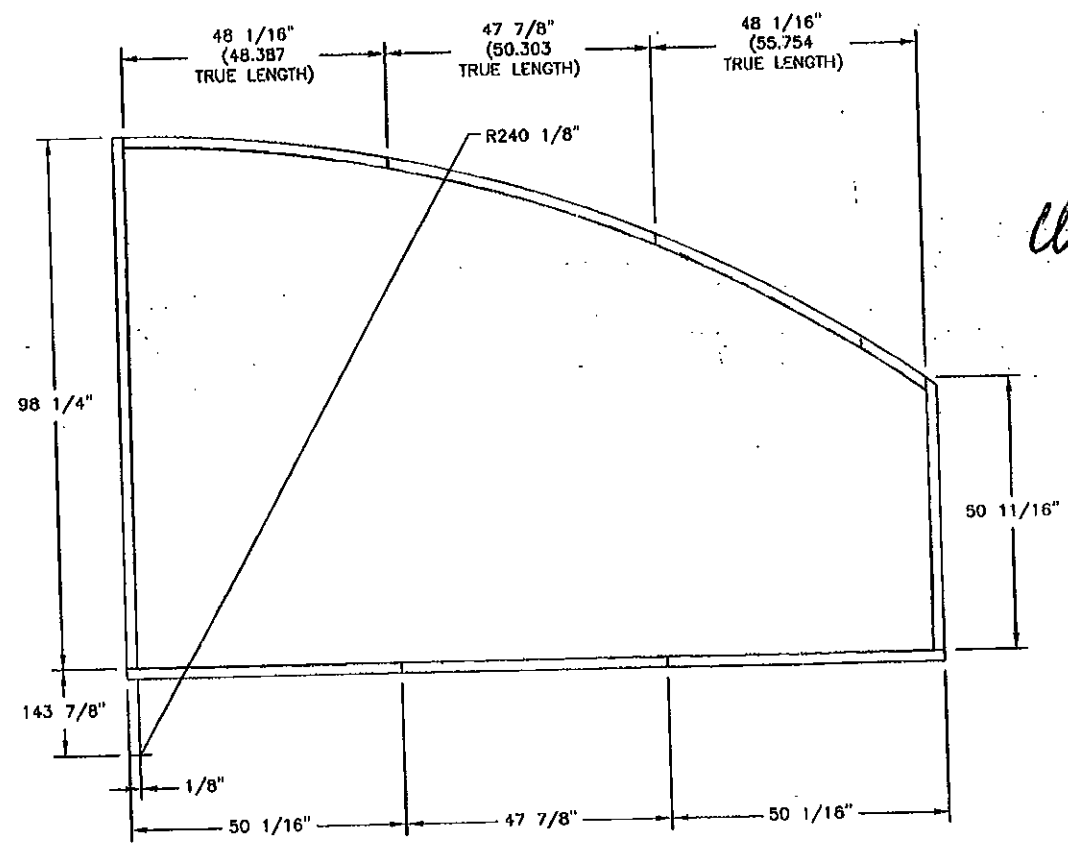
FRAME	6083-T5 extruded aluminum with .125 nominal wall thickness.
	Flange frame is same material and thickness as above.
BLADES	6083-T5 extruded aluminum with .091 nominal wall thickness. (Blades are mounted vertically)
SCREEN	5/8" x .040" expanded flat-tens aluminum bird screen.
	1/2" mesh x .063" aluminum bird screen.
	18-16 mesh of insect screen.
	No Screen
FINISH	MM.
	Kynar (opt).
	Baked enamel (modified fluoropolymer, 50% Kynar, opt).
	Clear anodize (opt).
	Clear anodize (opt).
	Color Ref. Note 15
INSTALLATION CHANNELS	Install channel 1/8" formed alum.
	Installation angles, 3/16" formed alum.
ACCESSORIES (opt)	Clip angles.
	Blankoff panel.



ASSEMBLY "E"
N.T.S.
QTY: 3 REQUIRED W/ 3 SHIP SECTIONS EACH



EME6625D PLANVIEW

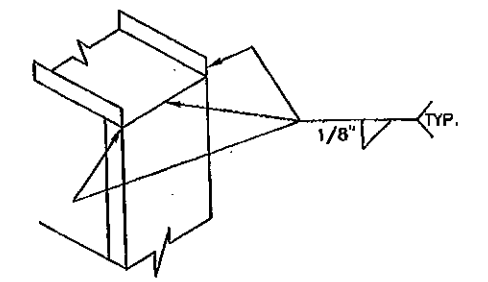


1 INSTALLATION CHANNEL DETAIL
N.T.S.

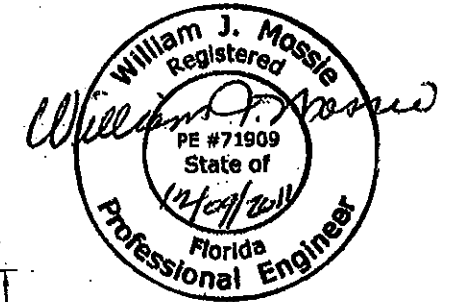
PRODUCT REVISED
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Miami Dade Product Control

TESTS PERFORMED
TAS-201 LARGE MISSILE IMPACT
TAS-202 UNIFORM STATIC AIR PRESSURE TEST
TAS-203 CYCLIC WIND PRESSURE TEST
DESIGN PRESSURE RATING +160 PSF POS., -140 PSF NEG.

ITEM	DESCRIPTION	MATERIAL
1	BLADE	6083-T5
2	JAMB FRAME	6083-T5
3	HEAD FRAME	6083-T5
4	SILL FRAME	6083-T5



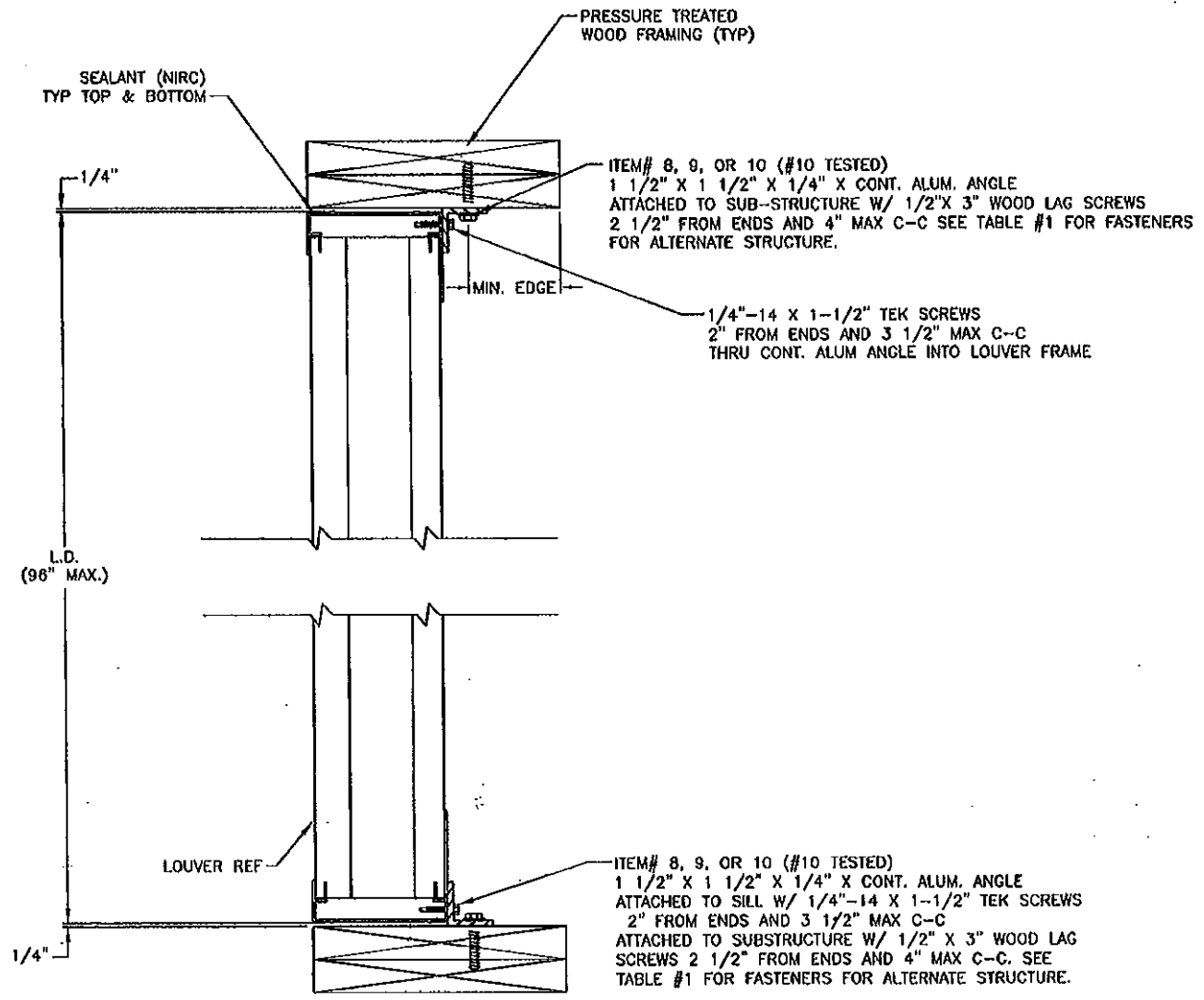
HEAD/SILL JAMB WELD DETAIL



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Miami Dade Product Control

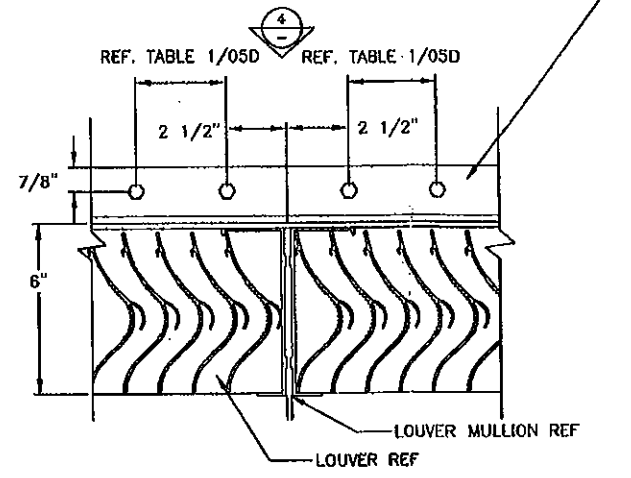
DATE	BY	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
10/2/08	DJC	3/2/07	DJR	3/2/07	DJR	3/2/07	DJR	3/2/07	DJR

DESCRIPTION OF REVISION	ADDED SHEET NUMBER	REVISED TITLE	WJM	DATE
William J. Mossie, PE	Ⓜ			12/8/11
CIVIL ENGINEER	ⓐ		DLG DJR DJR	3/23/17
STATE OF FLORIDA #71909	ⓐ		OWG DJR DJR	4/11/07
REVISION DESCRIPTION	CHG. BY	CHKD. BY	APPRD. BY	DATE
RUSKIN SWARTWOUT				
EME6625D TEST LOUVERS ROUND SHAPES				
60-021563-30D SHEET 31 OF 38				

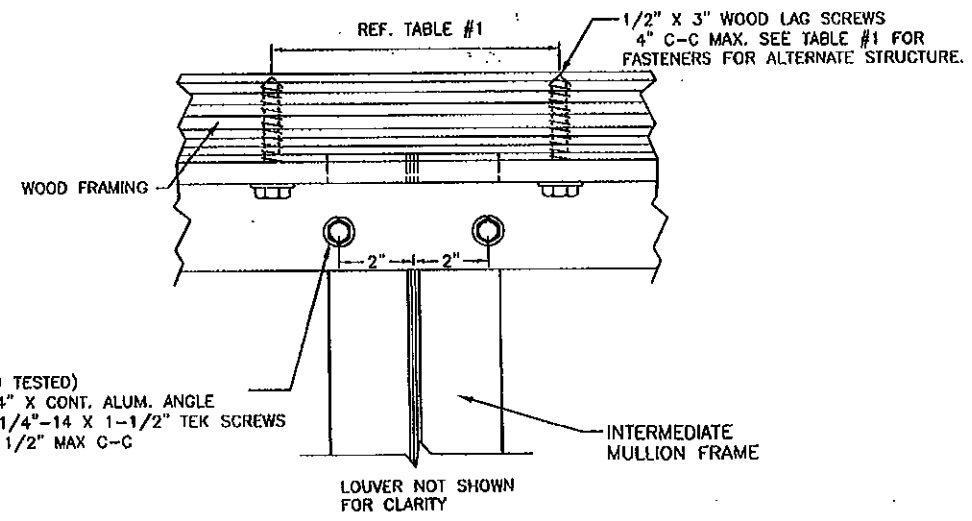


1 HEAD & SILL DETAIL: METHOD 1 - AS TESTED - WOOD FRAME
 31D N.T.S.
 ALTERNATE STRUCTURE - CONCRETE, STEEL FRAME

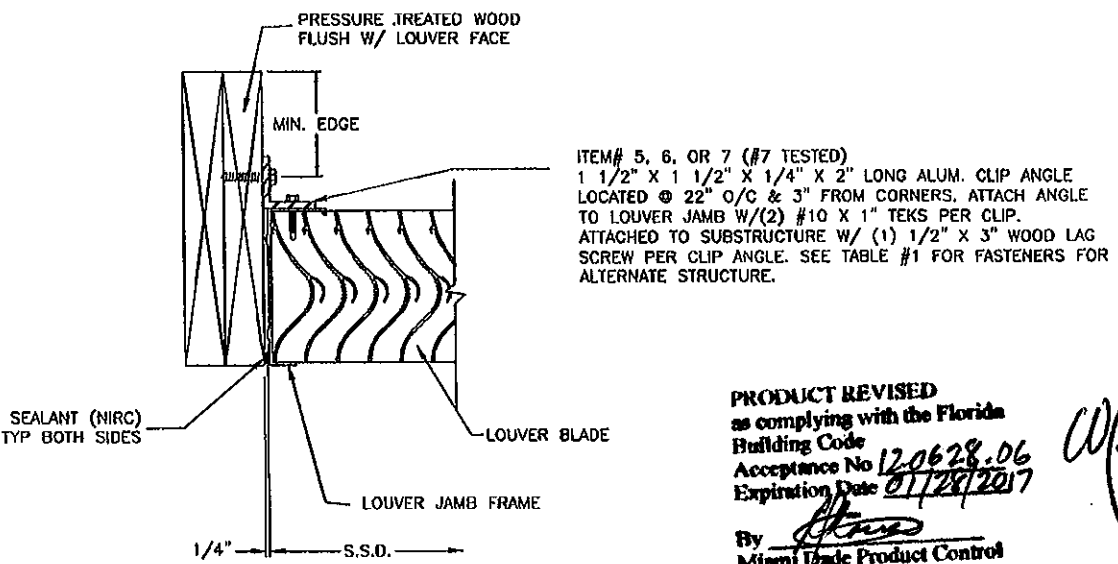
ITEM# 8, 9, OR 10 (#10 TESTED)
 1 1/2" X 1 1/2" X 1/4" X CONT. ALUM. ANGLE
 ATTACHED TO SUB-STRUCTURE W/ 1/2" X 3" WOOD LAG SCREWS
 2 1/2" FROM ENDS AND 4" MAX C-C SEE TABLE #1 FOR FASTENERS
 FOR ALTERNATE STRUCTURE.



3 MULLION DETAIL: METHOD 1 - AS TESTED - WOOD FRAME
 31D N.T.S.
 ALTERNATE STRUCTURE - CONCRETE, STEEL FRAME



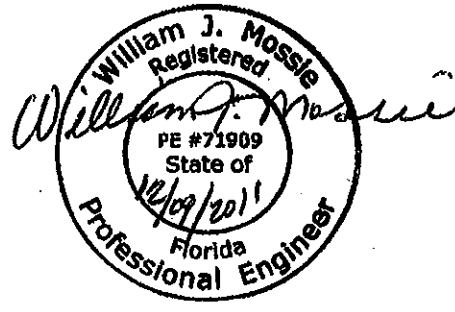
4 MULLION HEAD DETAIL @ STRUCTURE (SILL SIM): METHOD 1 - AS TESTED - WOOD FRAME
 31D N.T.S.
 ALTERNATE STRUCTURE - CONCRETE, STEEL FRAME



2 JAMB DETAIL: METHOD 1 - AS TESTED - WOOD FRAME
 31D N.T.S.
 ALTERNATE STRUCTURE - CONCRETE, STEEL FRAME

ITEM# 8, 9, OR 10 (#10 TESTED)
 1 1/2" X 1 1/2" X 1/4" X CONT. ALUM. ANGLE
 ATTACHED TO HEAD W/ 1/4"-14 X 1-1/2" TEK SCREWS
 2" FROM ENDS AND 3 1/2" MAX C-C

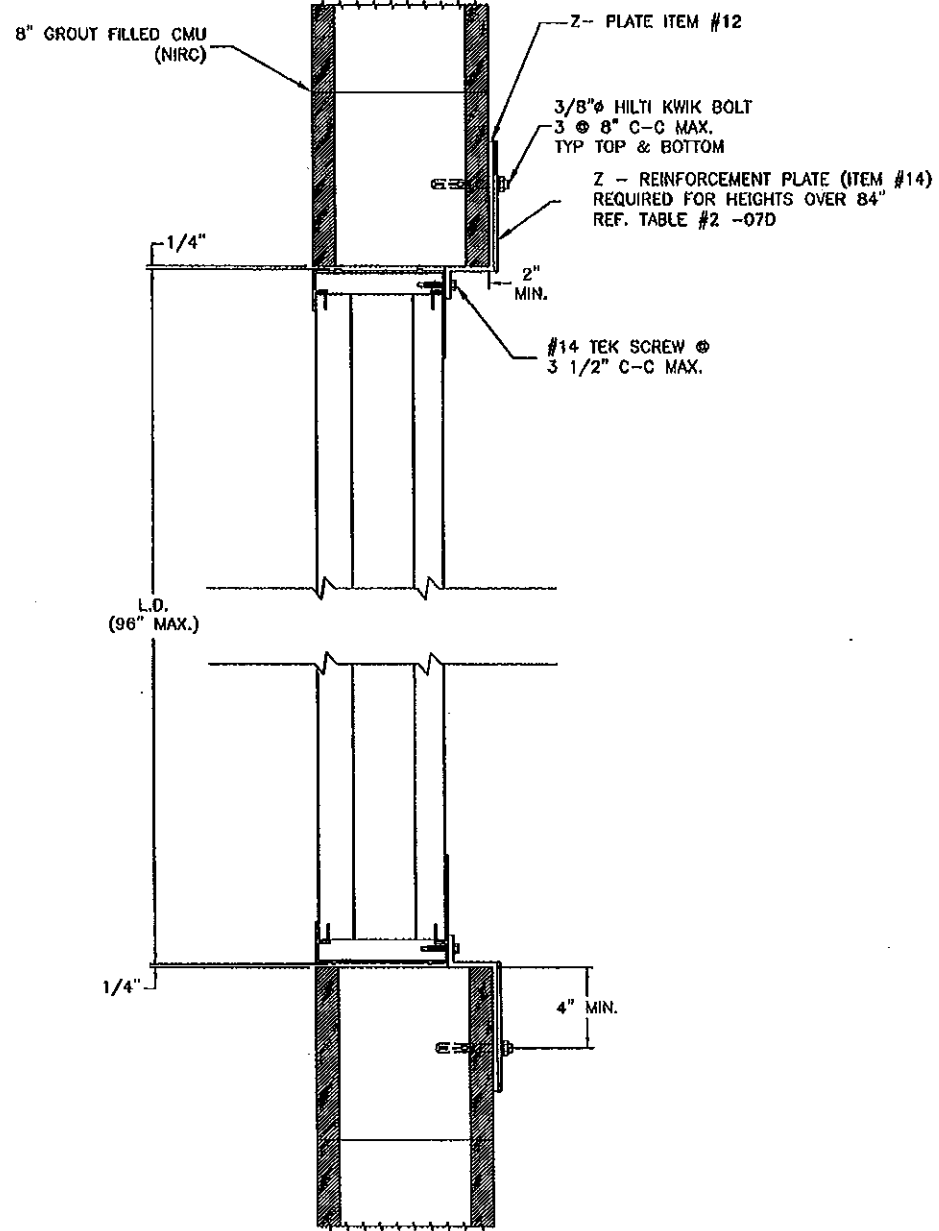
PRODUCT REVISED
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 By *[Signature]*
 Miami Trade Product Control



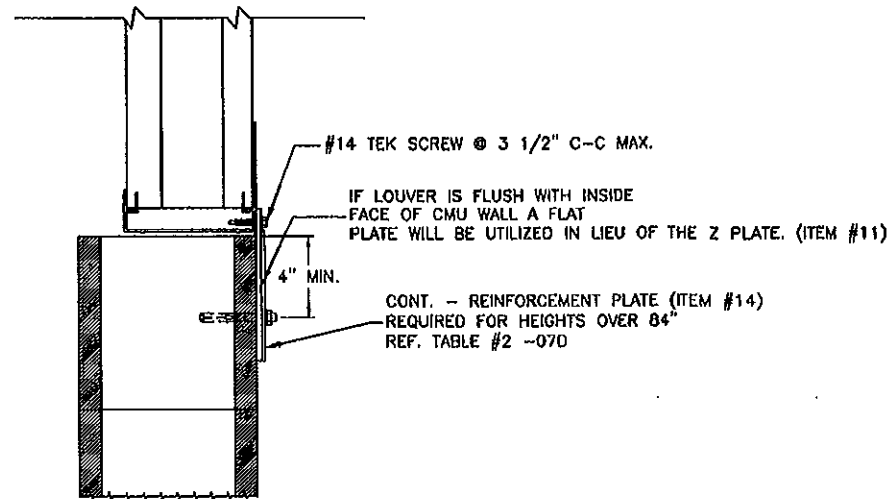
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ENGINEER OF RECORD		William J. Mossie, PE	
ENGINEERING DISCIPLINE		CIVIL ENGINEER	
REGISTRATION NUMBER		STATE OF FLORIDA #71909	
DATE	BY	DATE	BY
8/14/10	VMA	8/14/10	DJR

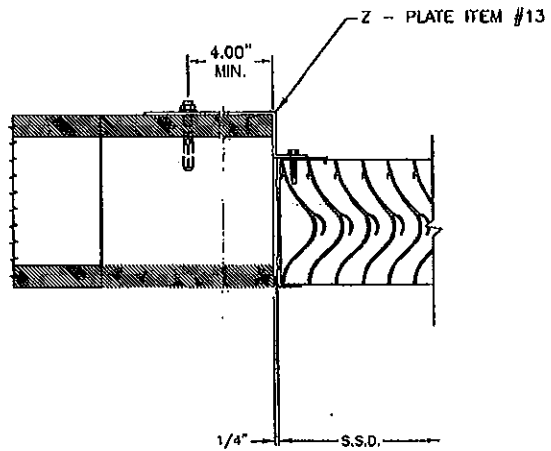
CHANGE LETTER	REVISION DESCRIPTION	CHK BY	DATE	APP'D BY	DATE
TITLE		DRAWING NO.		SHEET NO.	
EM6625D LOUVER CLIP ANGLE INSTALLATION DETAILS		60-021563-32D		SHEET 33 OF 38	



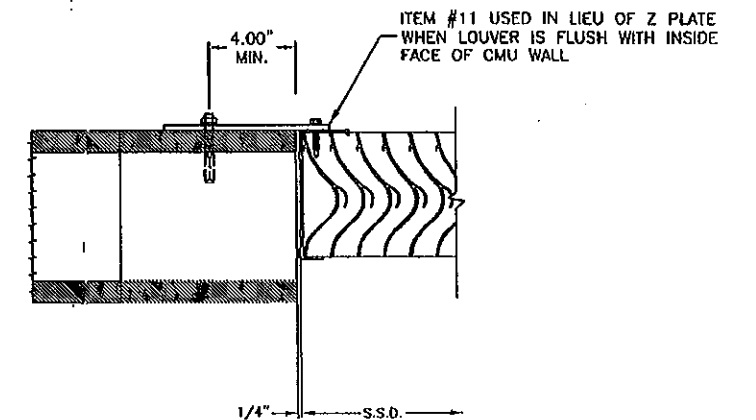
1A HEAD & SILL DETAIL METHOD 2 - GROUT FILLED CMU
31D N.T.S.



1B HEAD & SILL DETAIL: METHOD 2 - GROUT FILLED CMU
31D N.T.S.



2A JAMB DETAIL METHOD 2 - GROUT FILLED CMU
31D N.T.S.



2B JAMB DETAIL METHOD 2 - GROUT FILLED CMU
31D N.T.S.

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William J. Mossie
Registered
Professional Engineer
PE #71909
State of
Florida
12/09/2011
Florida

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Miami Dade Product Control

ENGINEER OF RECORD William J. Mossie, PE		ENGINEERING DISCIPLINE CIVIL ENGINEER		REGISTRATION NUMBER STATE OF FLORIDA #71909	
DATE	BY	DATE	BY	DATE	BY
9/14/10	VMA	9/14/10	DJR	9/14/10	DJR
DRAWN		CHECKED		APPROVED	
RUSKIN		SWARTWOUT		NONE	
TITLE EME6625D LOUVER CLIP ANGLE INSTALLATION DETAILS		PROJECT NO. 60-021563-33D		SHEET NO. 34 OF 38	

TABLE #1: APPROVED ATTACHMENTS

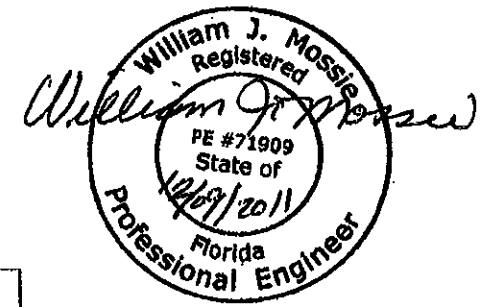
MIN. SUPPORT MAT'L	TYPE CONNECTION	ANGLE SLOT WIDTH	MAX SPACING	MIN EMBEDMENT	MIN EDGE
(12 GA MIN) STEEL	5/16"Ø A307 OR SDS	3/8"	3 1/2" C-C MAX.	N/A	2 1/2"
(4" MIN) CONCRETE	3/8"Ø KB TZ	7/16"	6" C-C MAX.	2"	3"
(8" CMU) GROUT FILLED MASONRY	3/8"Ø KBIII	7/16"	8" C-C MAX.	2 1/2"	4"
(2 - 2 X 10) WOOD	1/2"Ø X 3 LAG SCREW	9/16"	4" C-C MAX.	3"	2 1/2"

NOTE: ALL FASTENERS MUST BE INSTALLED PER THE MANUFACTURER'S FLORIDA/DADE COUNTY APPROVED INSTALLATION INSTRUCTIONS

TABLE #2: DRAWING CROSS REFERENCE

ITEM	DRAWING	MATERIAL	DESCRIPTION	RUSKIN #
1	60-021563-35D	6063-T6 AL	HEAD FRAME	70-021995-00B
2	60-021563-35D	6063-T6 AL	BLADE	70-021868-00B
3	60-021563-35D	6063-T6 AL	SILL FRAME	70-020749-00B
4	60-021563-35D	6063-T6 AL	JAMB FRAME	70-020750-00B
5	60-021563-36D	6063-T6 AL	CLIP ATTACHMENT (STEEL STRUCTURE)	
6	60-021563-36D	6063-T6 AL	CLIP ATTACHMENT (CONCRETE STRUCTURE)	
7	60-021563-36D	6063-T6 AL	CLIP ATTACHMENT (WOOD STRUCTURE)	
8	60-021563-36D	6063-T6 AL	CONT. CLIP ATTACHMENT (STEEL STRUCTURE)	
9	60-021563-36D	6063-T6 AL	CONT. CLIP ATTACHMENT (CONCRETE STRUCTURE)	
10	60-021563-36D	6063-T6 AL	CONT. CLIP ATTACHMENT (WOOD STRUCTURE)	
11	60-021563-37D	5052-H32 AL	CONT. FLAT PLATE (CMU STRUCTURE)	
12	60-021563-37D	5052-H32 AL	HEAD/SILL CONT. Z PLATE (CMU STRUCTURE)	
13	60-021563-37D	3003-H14 AL	JAMB ANGLE CONT. Z PLATE (CMU STRUCTURE)	
14	60-021563-37D	3003-H14 AL	CONT. REINFORCEMENT PLATE (CMU STRUCTURE)	

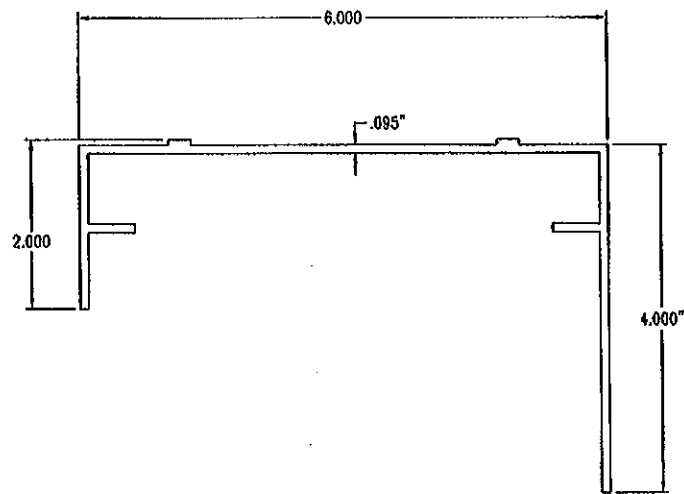
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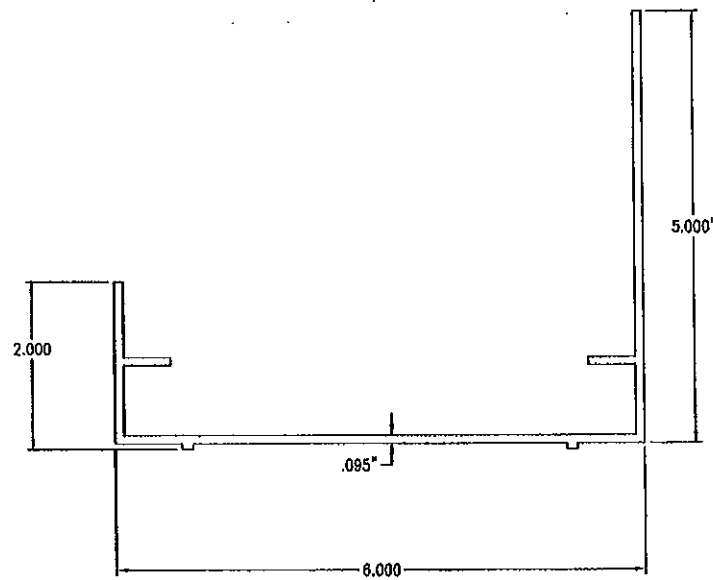
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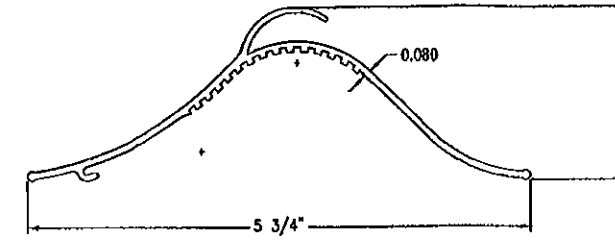
ENGINEER OF RECORD William J. Mossie, PE		ENGINEERING DISCIPLINE CIVIL ENGINEER		REGISTRATION NUMBER STATE OF FLORIDA #71909	
CHANG LETTER	REVISION DESCRIPTION	DATE BY	DATE BY	DATE BY	DATE BY
	RUSKIN SWARTWOUT				
TITLE EME66250 LOUVER ALTERNATE ATTACHMENT TABLES			DRAWING NUMBER 60-021563-34D SHEET 35 OF 38		



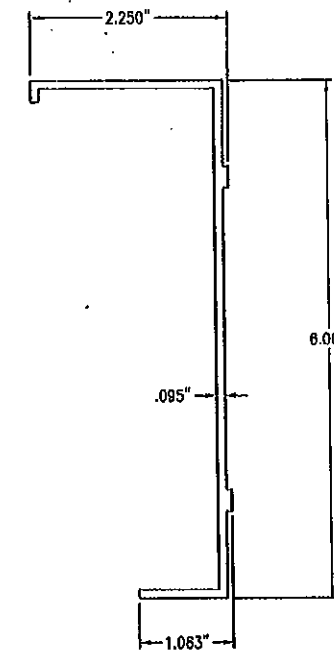
ITEM 1 - HEAD FRAME
RUSKIN# 70-021995-00B



ITEM 3 - SILL FRAME
RUSKIN# 70-022226-00B



ITEM 2 - LOUVER BLADE
RUSKIN# 70-020748-00B

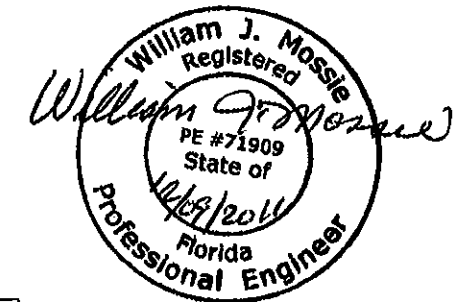


ITEM 4 - JAMB FRAME
RUSKIN# 70-022227-00B

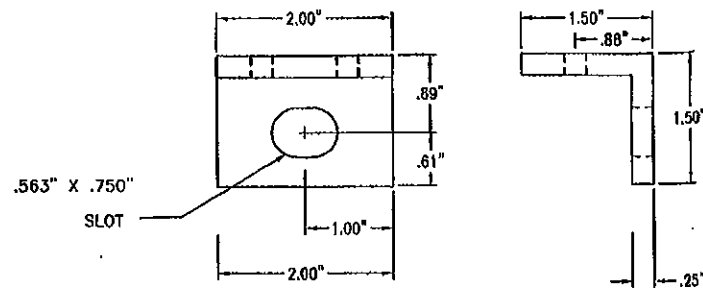
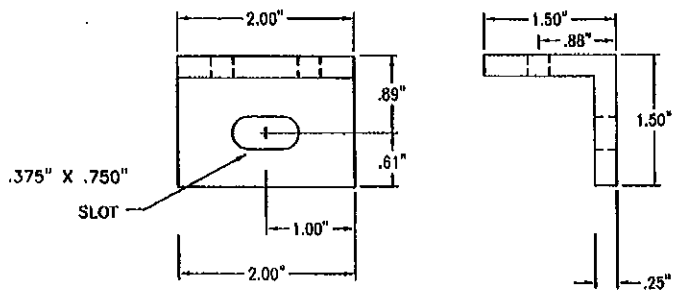
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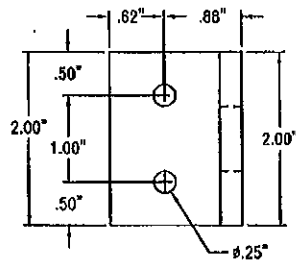
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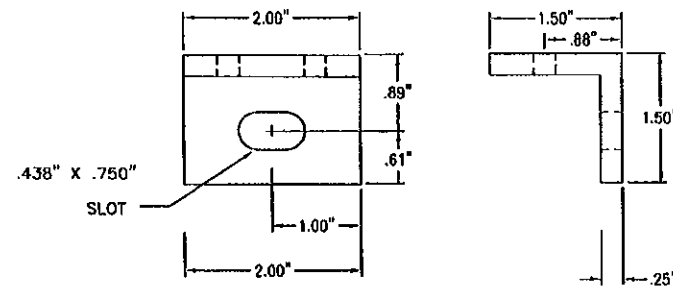
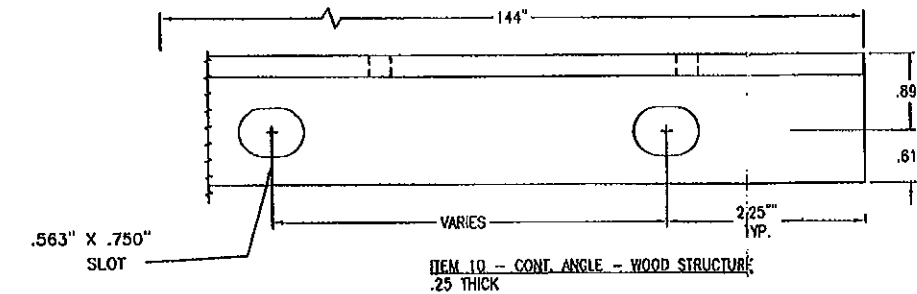
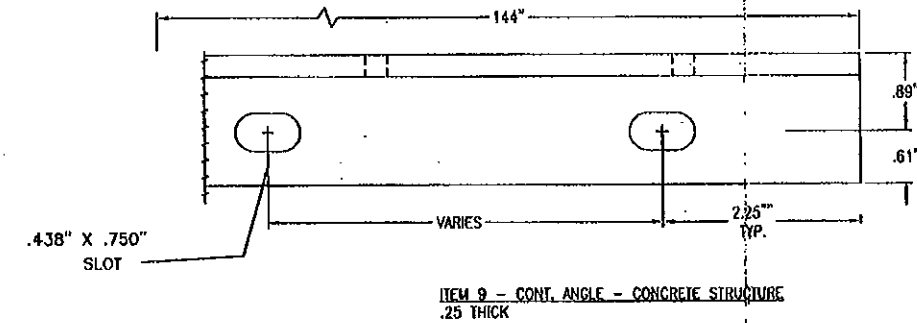
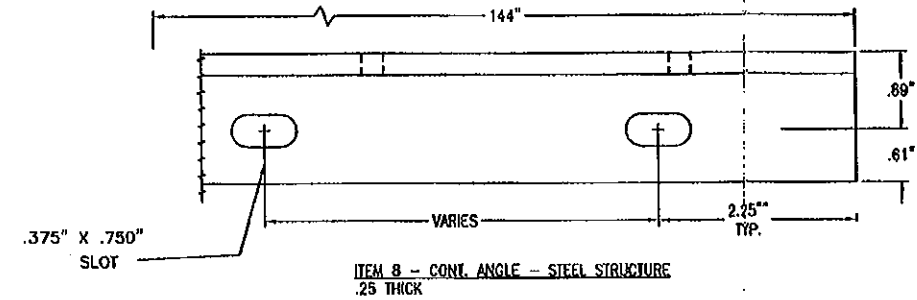
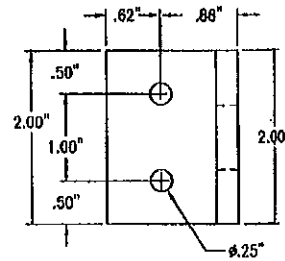
ENGINEER OF RECORD William J. Mossie, PE		CHANGE LETTER		REVISION DESCRIPTION		DRW. BY	CHK'D. BY	APP'D. BY	DATE
ENGINEERING DISCIPLINE CIVIL ENGINEER		RUSKIN		NO. DR. SHEETS TO WHICH SO. SHEETS		DATE	DATE	DATE	DATE
REGISTRATION NUMBER STATE OF FLORIDA #71909		EMERGENCY INFORMATION		PROPERTY INFORMATION		DATE	DATE	DATE	DATE
TITLE EME6625D LOUVER ALTERNATE ATTACHMENT TABLES		NONE		NONE		DATE	DATE	DATE	DATE
DRAWING NO. 60-021563-35D		SHEET NO. 36 OF 38		DATE		DATE	DATE	DATE	DATE



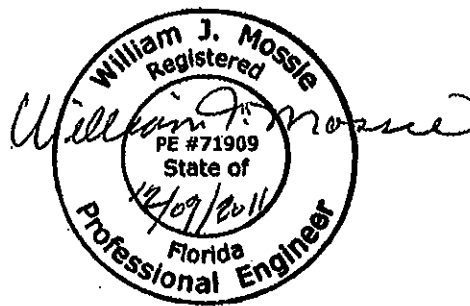
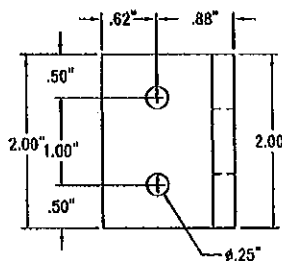
ITEM 5 - CLIP ANGLE
STEEL STRUCTURE



ITEM 7 - CLIP ANGLE
CONCRETE STRUCTURE



ITEM 6 - CLIP ANGLE
WOOD STRUCTURE



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ENGINEER OF RECORD William J. Mossie, PE	
ENGINEERING DISCIPLINE CIVIL ENGINEER	
REGISTRATION NUMBER STATE OF FLORIDA #71909	
DATE 9/14/10	BY DJR
DATE 9/14/10	BY DJR
DATE 9/14/10	BY DJR

PRODUCT REVISED
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By [Signature]
Miami Dade Product Control

CHANGE LETTER	REVISION DESCRIPTION	CHK'D BY	CHK'D DATE	APPROV'D BY	APPROV'D DATE

EMEG625D LOUVER
ALTERNATE ATTACHMENT
TABLES

60-021563-36D
SHEET 37 OF 38

