



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

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/building

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 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 ELF6375DXD Aluminum Louver with Optional CD-50 Damper

APPROVAL DOCUMENT: Drawing No. **60-021806-00D, 01D, 02D, 08D, 09D & 24B**, titled "ELF6375DXD & CD50" sheets 1 through 6 of 6, dated 12/11/01 and 04/02/98, with last revision dated 06/13/11, prepared by Ruskin Company, signed and sealed by William J. Mossie, P.E., bearing the Miami-Dade County Product Control renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control 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 **renews NOA # 06-0320.12** 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]
 06/22/11

NOA No. 11-0408.04
 Expiration Date: July 09, 2012
 Approval Date: June 30, 2011
 Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **60-021806-00D, 01D, 02D, 08D, 09D & 24B**, titled "ELF6375DXD & CD50" sheets 1 through 6 of 6, dated 12/11/01 and 04/02/98, with last revision dated 06/13/11, prepared by Ruskin Company, signed and sealed by William J. Mossie, P.E.

B. TESTS "Submitted under NOA # 02-0114.06"

1. Test report on Large Missile Impact Test per PA 201, Cyclic wind Pressure Test per PA 203 and Uniform Static Air Pressure Test per PA 202 of "Open, Extruded Aluminum Louver Assembly," prepared by Construction Research Laboratory Inc., Report No. **97-1124.22**, dated 08/04/02, signed and sealed by N. S. Balsara, P.E.

C. CALCULATIONS "Submitted under NOA # 00-0830.03"

1. Louver Blade, Mullion & Support Calculations of Dade County Louver per DWG. No. **60021680-21D**, dated 07/18/00, pages 1 to 21 of 21, prepared by R. H. Wagner, signed and sealed by E. P. Hutson, P.E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

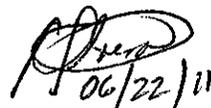
1. None.

F. STATEMENTS

1. Statement letter of code conformance with 2007 FBC, issued by Ruskin Company, dated 0613/11, signed and sealed by William J. Mossie, P.E.
2. Testing contract letter issued by National Certified Testing Laboratories and signed by Christopher Bennett.

"Submitted under NOA # 00-0830.03"

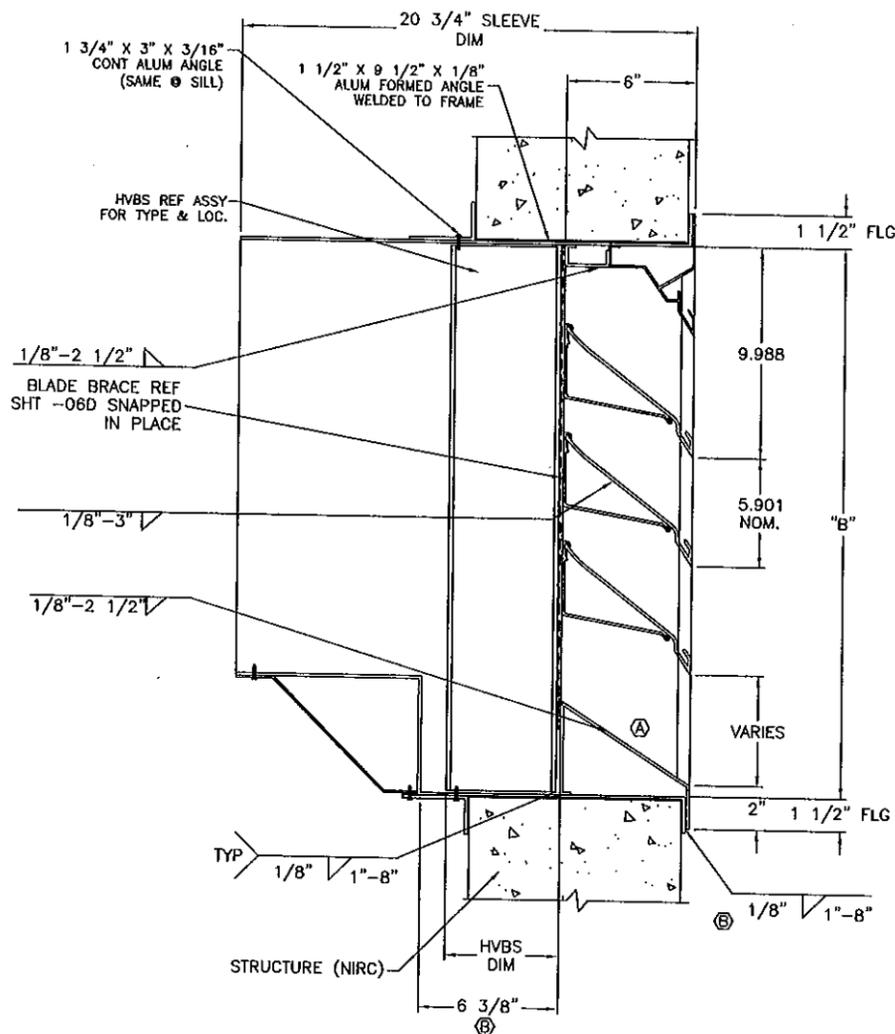
3. Test Compliance letter issued by Construction Research Laboratory, Inc., on 08/04/00, signed by R. Sembello.
4. No Financial Interest letter issued by Ruskin Manufacturing, signed by V. M. Astourian and notarized by T. S. Turner on 06/23/99.



06/22/11

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 11-0408.04
Expiration Date: July 09, 2012
Approval Date: June 30, 2011

| | |
|---|--|
| FRAME | |
| 6063-T5 extruded aluminum with .125" nominal wall thickness. W/4" x 1" angle rear @ perimeter only. | |
| Flange frame is same material and thickness as above. | |
| BLADES | |
| 6063-T5 extruded aluminum with .080" nominal wall thickness. Blades are positioned at 37.5° angle. | |
| SCREEN | |
| 3/4" x .051" expanded flat-tened aluminum bird screen. | |
| 1/2" mesh x .063" aluminum bird screen. Note 1. | |
| 18-16 mesh alum insect screen | |
| No screen. | |
| FINISH | |
| Mill | |
| Kynor (opt.) | |
| Baked enamel (modified fluoropolymer, 50% Kynor, opt.) | |
| Color Anodize (opt.) | |
| Clear Anodize (opt.) | |
| Color: SEE NOTE #15 | |
| ACCESSORIES | |
| Extended sill. REF DETAIL'S | |
| Clip angles. | |
| Blankoff panel. | |
| 1 1/2" x 1 1/2" x 1/8" Continuous angles at perimeter | |



| |
|---------------------------------|
| DESIGN PRESSURE RATING |
| OF MODEL ELF6375DXD |
| ±138 PSF |
| LARGE MISSILE IMPACT RESISTANCE |

LEGEND:

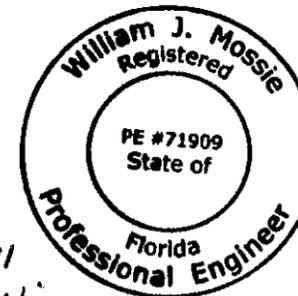
- O.F.D. = OUTSIDE FRAME DIM.
- R.O. = ROUGH OPENING
- A.L. = ANGLE LENGTH
- O.D. = OPENING DIM.
- N.T.S. = NOT TO SCALE
- NIRC = NOT IN RUSKIN CONTRACT
- HVBS = HIDDEN VERTICAL BLADE SUPPORT.
- SSD = SHIP SECTION DIM.
- L.D. = LOUVER DIM.
- DIM. = DIMENSION
- SIM = SIMILAR

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.

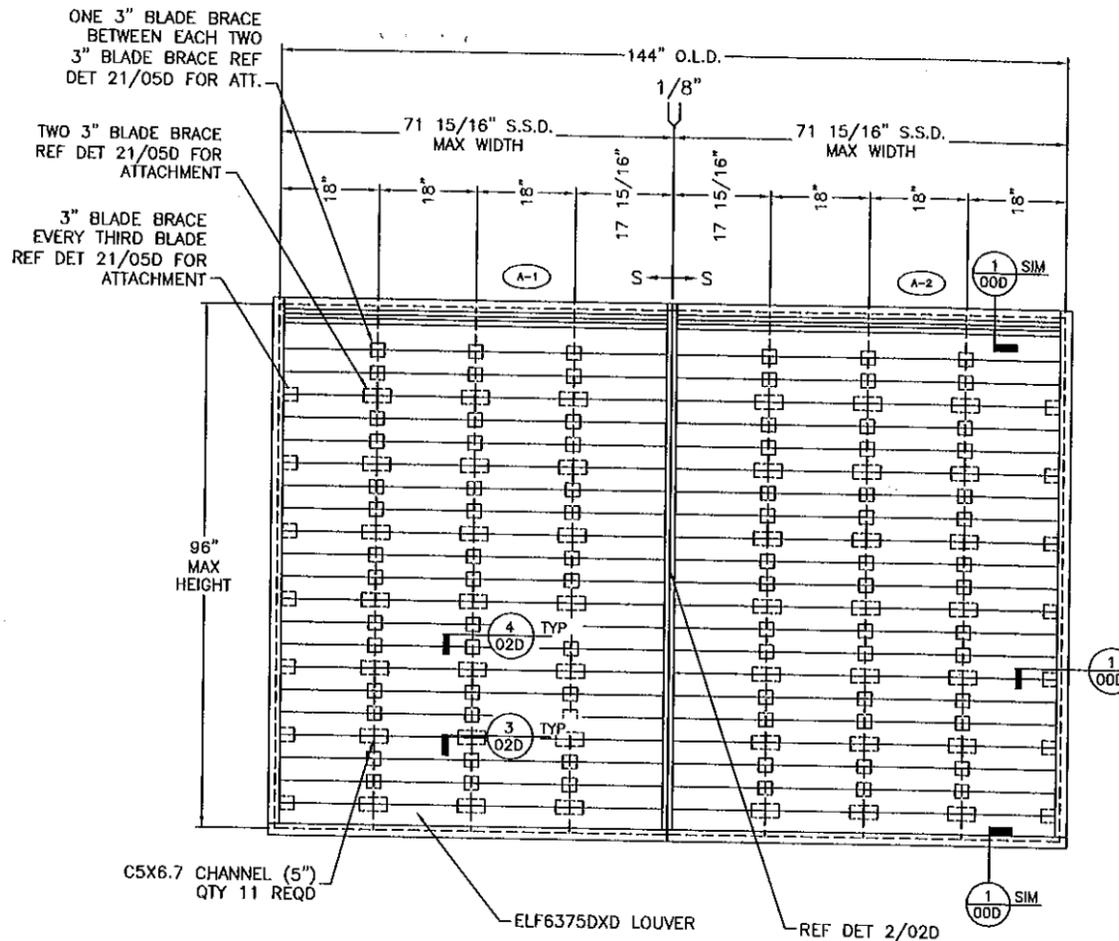
FOR OFFICE USE ONLY

PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No 11-0408.04
 Expiration Date 07/09/2012
 By *[Signature]*
 Miami Dade Product Control



06/13/11

William J. Mossie

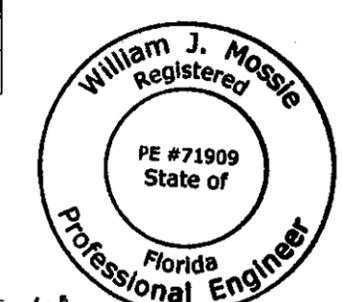
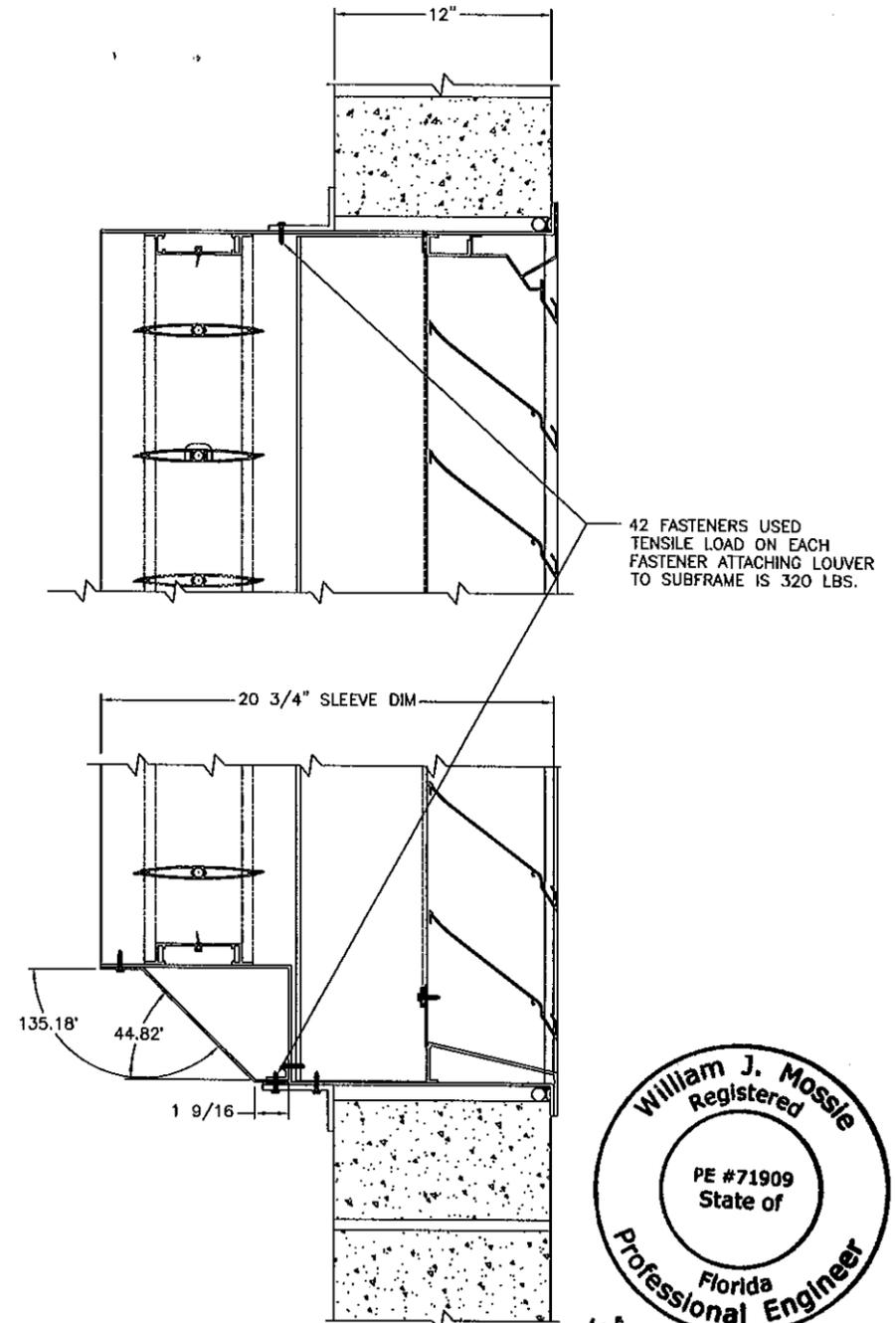
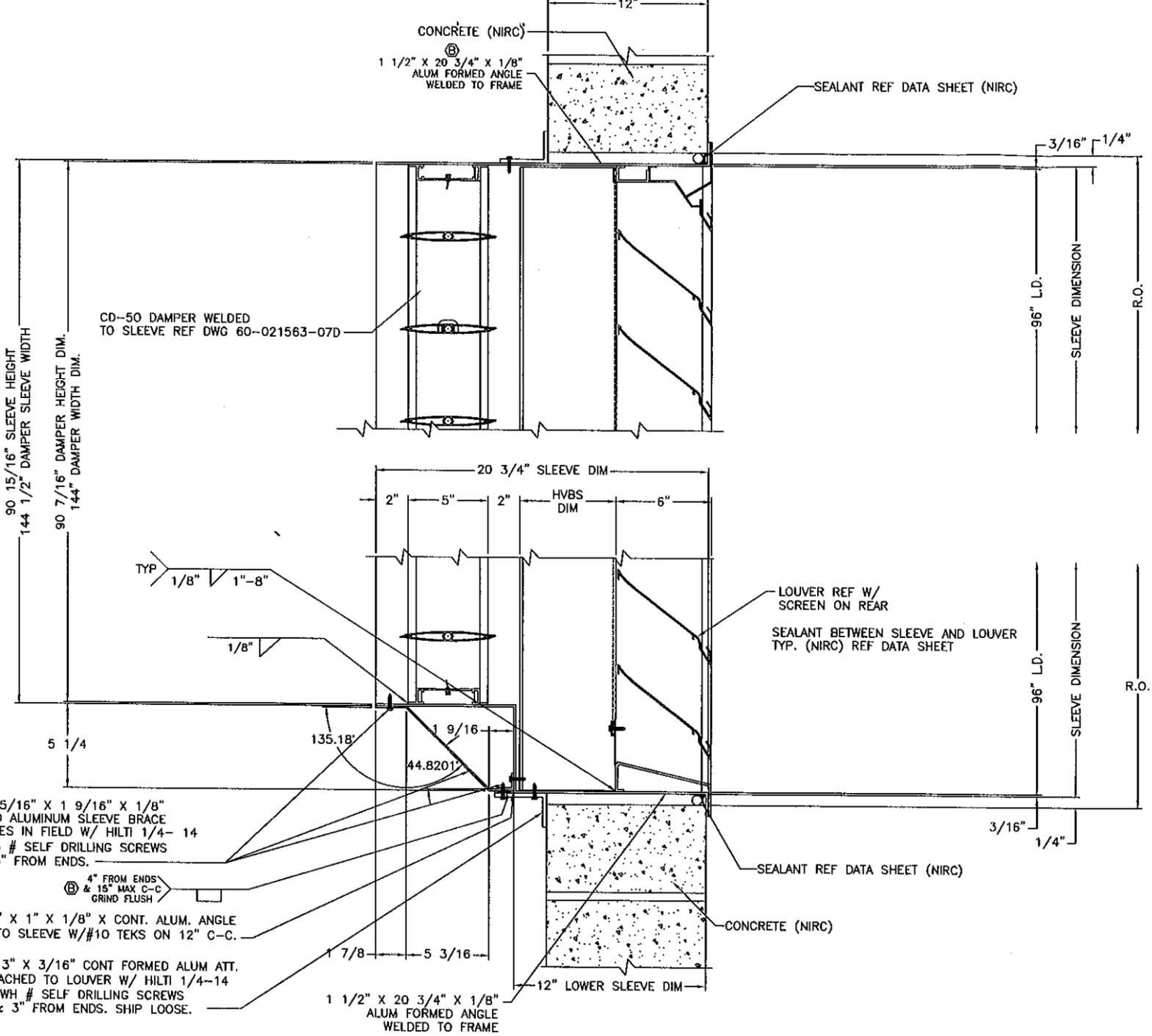


ELF6375DXD LOUVER ASSEMBLY 'A'
 NTS FRONT VIEW

NOTES:

- 1) WELD BIRD SCREEN TO SCREEN FRAME @ 12" C-C.
- 2) THE STRUCTURE SUBSTRATE THAT HOLDS THE LOUVER IN PLACE, IS ASSUMED TO BE STRUCTURALLY SOUND AND STABLE TO TAKE THE LOADS DISPERSED BY THE LOUVER.
- 3) LOUVER IS NONBEARING AND IS NOT DESIGNED TO WITHSTAND BUILDING DEADLOADS.
- 4) THESE LOUVERS 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.

| | | | |
|--|--|--------------------------------------|----------------------------|
| ENGINEER OF RECORD: William J. Mossie | REVISION: (B) CHANGE SILL TO 70-021120-008; REVISED SPEC | REV/ARG: | 7-8-09 |
| DISCIPLINE: Civil Engineer | (A) REVD NOTES & SPEC | JW VMA VMA | 8-25-02 |
| REGISTRATION #: State of Florida #71909 | REVISION DESCRIPTION: | DWG. BY: CHG'D. BY: APP'D. BY: DATE: | |
| DATE: 12-11-01 | DATE: 08-13-11 | DATE: DATE: DATE: | |
| TITLE: LOUVER DAMPER ASSY DADE CTY. FLORIDA | | SCALE: NONE | ECH: 3347 |
| PROJECT: ELF6375DXD & CD50 ASSEMBLIES & SECTIONS | | DWG. NO.: | 60-021806-00D SHEET 1 OF 6 |



William J. Mossie
06/13/11

LOUVER/DAMPER ASS'Y "A" (+148/-140PSF)
N.T.S. FOR FASTENER LOADS

| |
|---------------------------------|
| DESIGN PRESSURE RATING |
| OF MODEL ELF6375DXD W/CD50 |
| ±138 PSF |
| LARGE MISSILE IMPACT RESISTANCE |

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.

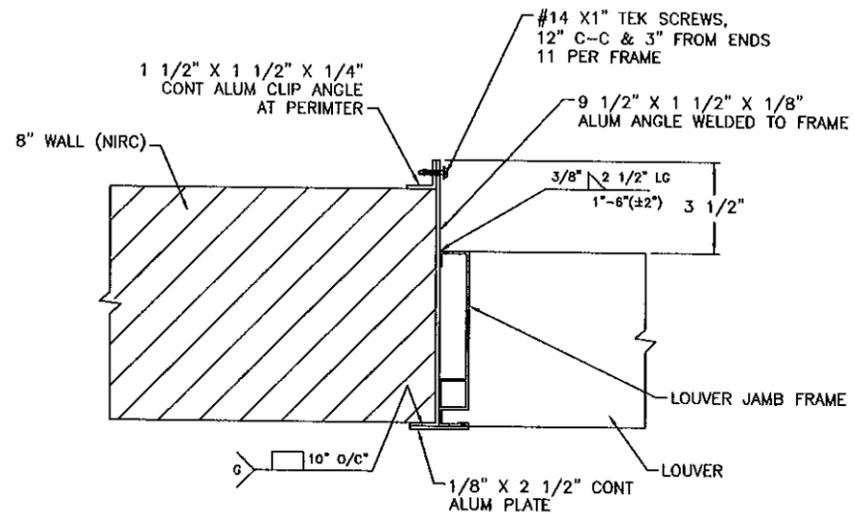
- LOUVER IS NONBEARING AND IS NOT DESIGNED TO WITHSTAND BUILDING DEADLOADS.

FOR OFFICE USE ONLY

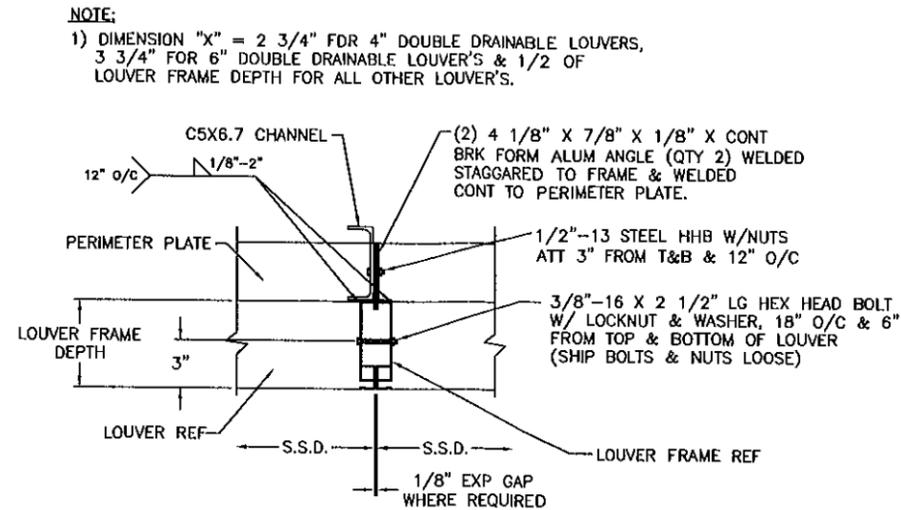
PRODUCT RENEWED as complying with the Florida Building Code
Acceptance No 11-0408.04
Expiration Date 07/09/2012

By *[Signature]*
Miami Date Product Control

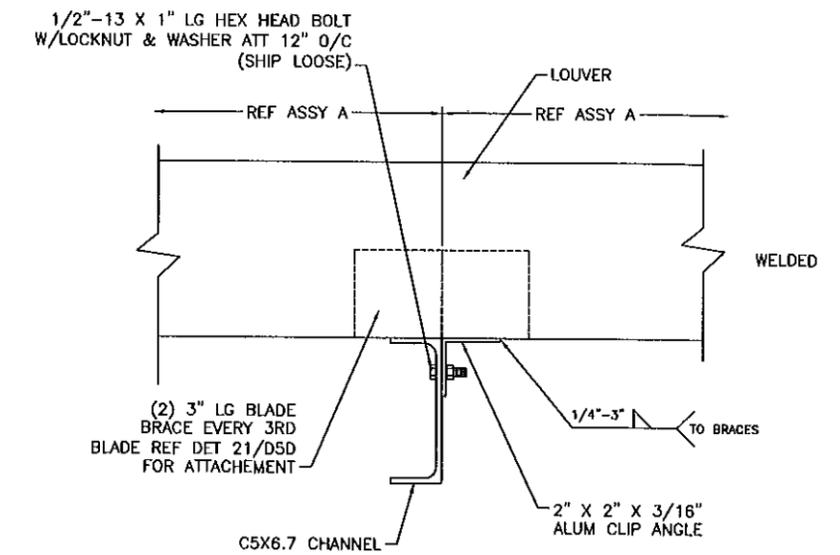
| | | | | | |
|---|---|----------------------|---------------------|------------|--------------|
| ENGINEER OF RECORD: William J. Mossie | REVD BRACE ATTACHMENT & BOTTOM ATT. ANGLE | KCM | | | 1/5/08 |
| ENGINEERING DISCIPLINE: Civil Engineer | REVD MAX PSF RATING | JW | VMA | VMA | 8-28-02 |
| REGISTRATION #: State of Florida #71909 | CHANGE LETTER | REVISION DESCRIPTION | DWG. BY: | CHK'D. BY: | APPR'D. BY: |
| DRAWN BY: JW | DATE: 12-11-01 | DATE: 06-13-11 | | | |
| TITLE: LOUVER DAMPER ASSY DADE CTY, FLORIDA | RUSKIN Mfg 3900 DR. Greaves RD Grandview, MD 64020 | | PLOT SCALE: NONE | | DWG. NO.: |
| | ELF6375DXD W/CD50 SECTION & FASTENER LOAD | | 60-021806-01D | | Sheet 2 of 6 |



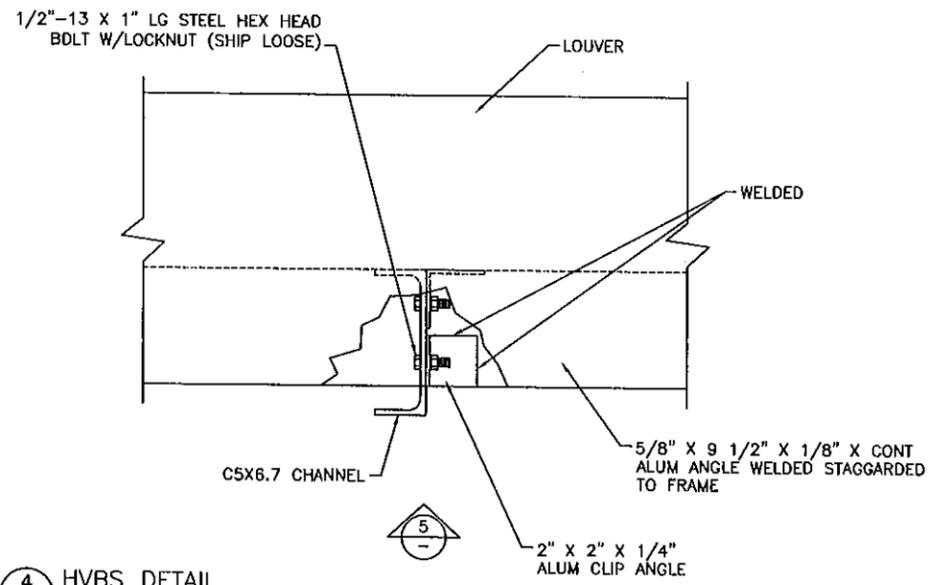
1 LOUVER @ JAMB DETAIL -- (HEAD & SILL SIMILAR)
 OOD N.T.S.



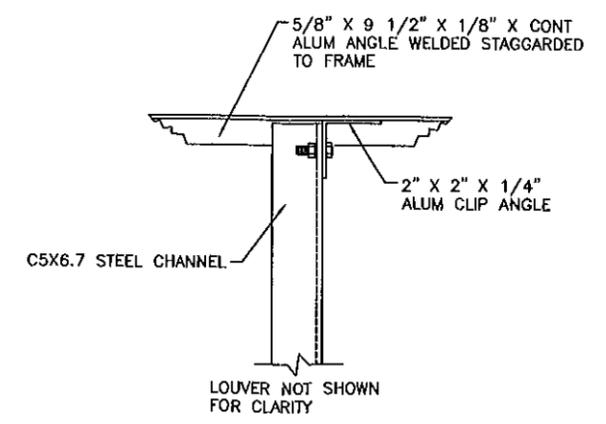
2 VISIBLE MULLION CONNECTION DETAIL
 OOD N.T.S.



3 HVBS DETAIL
 OOD N.T.S.



4 HVBS DETAIL
 OOD N.T.S.



5 HVBS HEAD DETAIL @ ANGLE FRAME (SILL SIM)
 OOD N.T.S. REAR VIEW

PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No 11-0408.04
 Expiration Date 07/27/2012
 By [Signature]
 Miami Dade Product Control

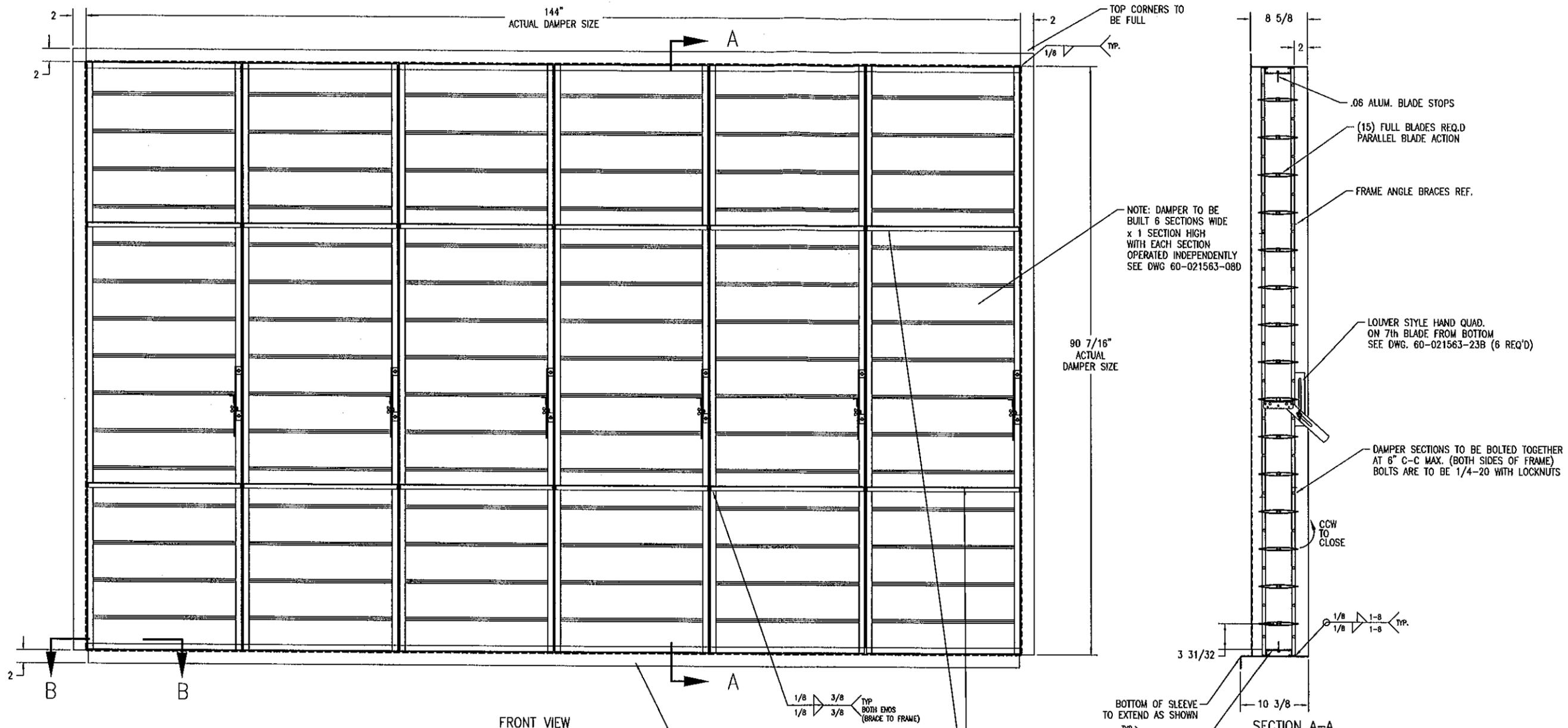
FOR OFFICE USE ONLY



William J. Mossie
 06/13/11

NOTES:
 1) REFERENCE DRAWING #60-021806-000 FOR SPECIFICATION'S, SCHEDULE, ASSEMBLIES & ADDITIONAL NOTES

| | | | | | |
|---|---|---|-------------------|---|-----------------------------|
| ENGINEER OF RECORD: William J. Mossie | REVD DET 1/000 | JW | VMA | VMA | 8-20-02 |
| ENGINEERING DISCIPLINE: Civil Engineer | CHANGE LETTER | CHG. BY | CHK'D. BY | APP'D. BY | DATE |
| REGISTRATION #: State of Florida # 71909 | REVISION DESCRIPTION | | | | |
| DRAWN BY: JW | DATE: 12-11-01 | APPROVED BY: WJM | DATE: 08-13-11 | PLOT SCALE: NONE | ENG. CERTIFIED BY: DATE: |
| PROJECT: RUSKIN Mtg | LOCATION: 3900 DR. Greaves RD Grandview, MD 64030 | TITLE: LOUVER DAMPER ASSY DADE CTY. FLORIDA | | DWG. NO.: ELF6375DXD W/CD50 DETAILS | |
| | | | | 60-021806-02D Sheet 3 of 6 | |



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

.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

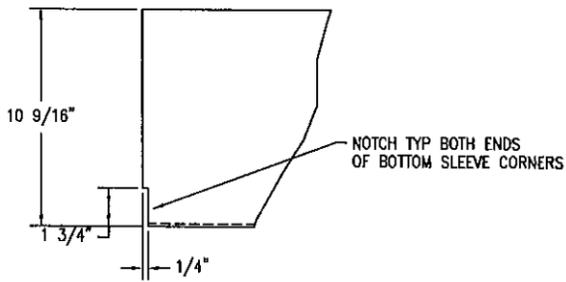
CCW TO CLOSE

BOTTOM OF SLEEVE TO EXTEND AS SHOWN
TYP. AT FRAME CORNERS 1/8 1-1/2

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.

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



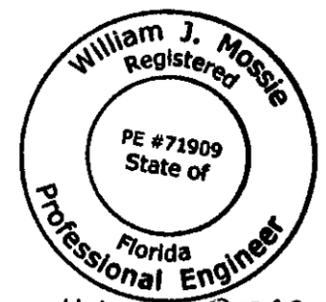
SECTION B-B

FRONT VIEW

SECTION A-A

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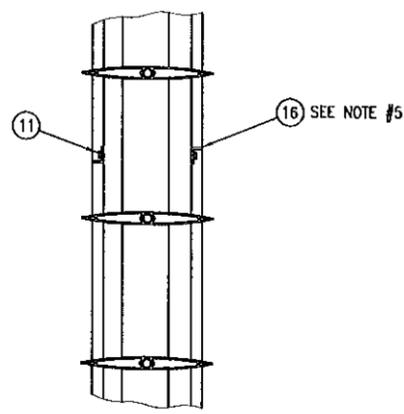
PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No 11-0408.04
 Expiration Date 07/07/2012
 By *[Signature]*
 Miami Dade Product Control



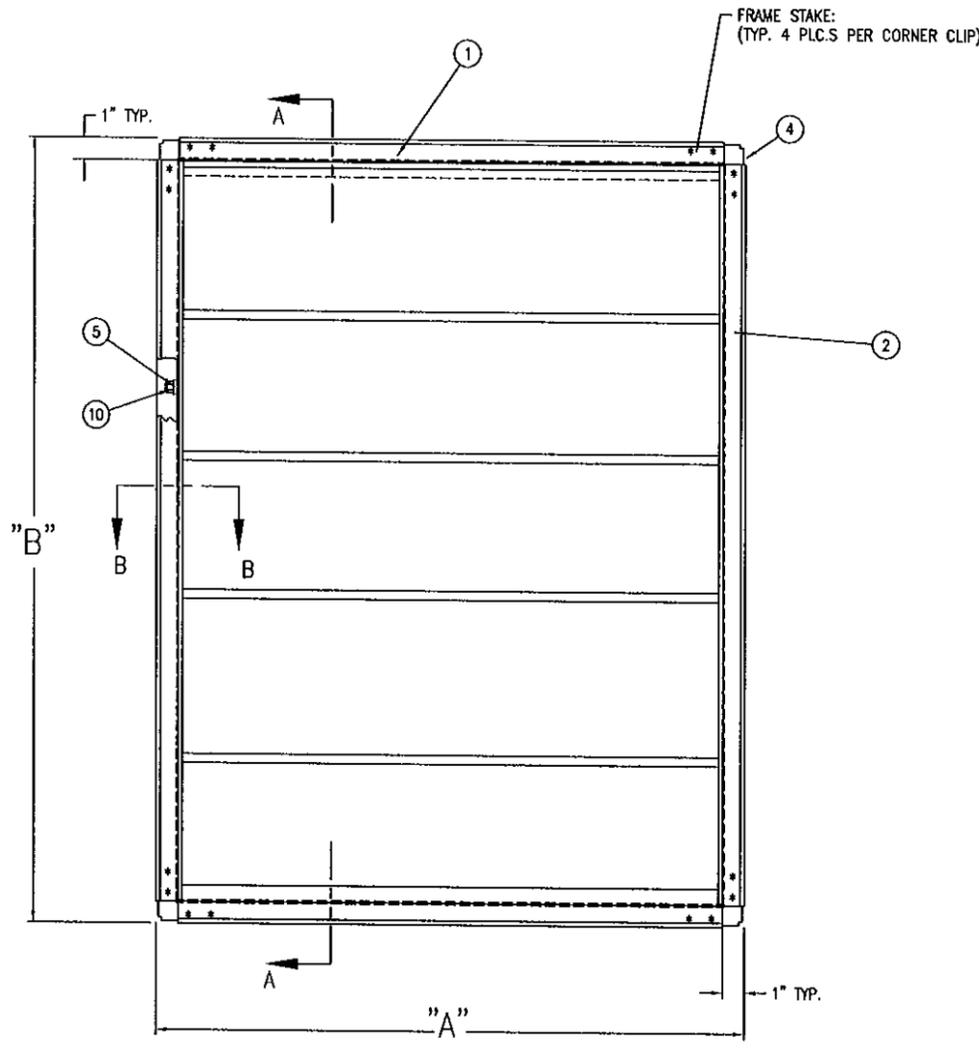
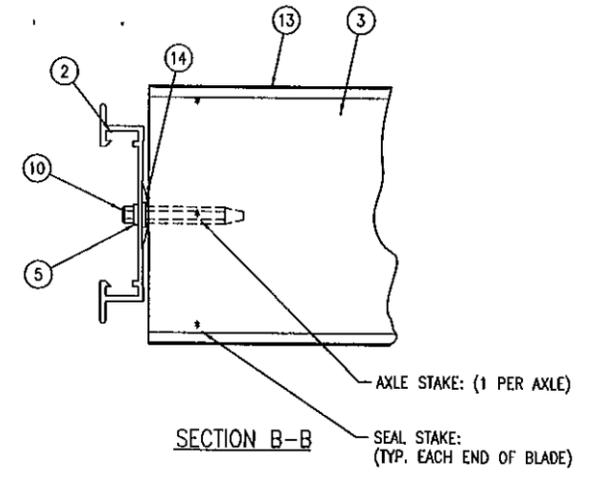
William J. Mossie
 06/13/11

UNLESS OTHERWISE SPECIFIED USE STANDARD ENGINEERING TOLERANCES

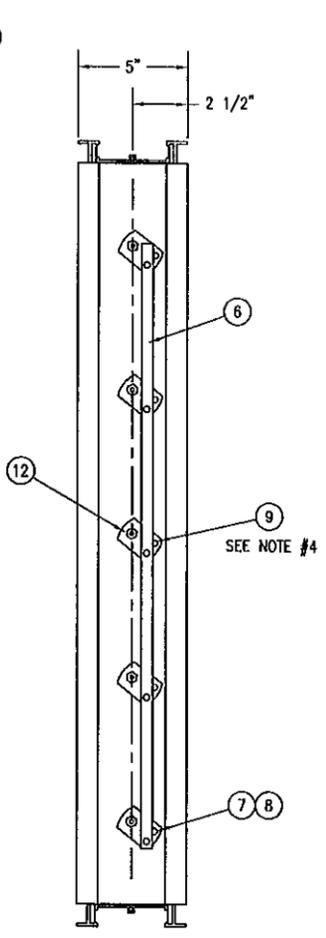
| | | | | | | | | | |
|--|--------------|--|-------|------------------------------|-------|-------------------------------------|-------|-------------------|-------|
| DESIGNER OF RECORD: William J. Mossie | | REGISTERED PROFESSIONAL ENGINEER: Civil Engineer | | REVISION LETTER: RUSKIN Mfg. | | REVISION DESCRIPTION: Grandview, MD | | DATE: 3/2/09 | |
| CHG. BY: DDM | DATE: 3/2/09 | CHK'D. BY: | DATE: | APP'D. BY: | DATE: | APP'D. BY: | DATE: | DATE: | DATE: |
| TITLE: LOUVER DAMPER ASSEMBLY DADE COUNTY, FLORIDA | | | | PLOT SCALE: NONE | | DWG. NO.: 60-021806-08D | | SHEET NO.: 4 of 6 | |



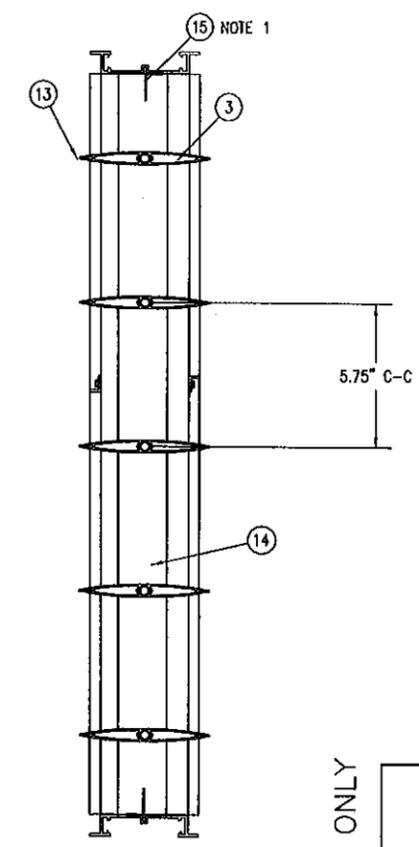
FRAME BRACE DETAIL
UNITS OVER 48" "B" DIM.



FACE VIEW
SHOWN CLOSED



RIGHT SIDE VIEW
PARALLEL BLADE
SHOWN CLOSED



SECTION A-A
SHOWN OPEN

UNLESS OTHERWISE SPECIFIED USE
STANDARD ENGINEERING TOLERANCES

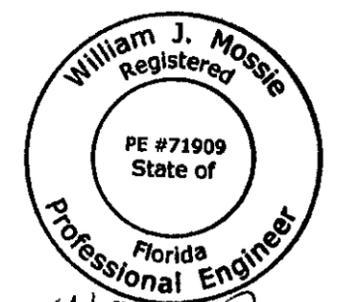
| ITEM | DWG. NO. | DESCRIPTION |
|------|---------------|--|
| 1 | 60-021563-09B | FRAME: TOP & BOTTOM |
| 2 | 60-021563-10B | FRAME: SIDE |
| 3 | 60-021563-11B | BLADE: |
| 4 | 60-021563-12B | CORNER CLIP: |
| 5 | 60-021563-14B | BEARING: SYNTHETIC |
| 6 | 60-021563-20B | TIEBAR: 1/2" WIDE x 12 GA. GALV. |
| 7 | | TRUARC RING: (PLTD.) E-25 |
| 8 | 60-021563-15B | "F" LINKAGE ASSEMBLY: |
| 9 | 60-021563-21B | OVERTRAVEL STOP: 16 GA. GALV. |
| 10 | 60-021563-18B | IDLER AXLE: (PLTD) |
| 11 | | TEK SCREW: #10 x 3/4" LG. (PLTD) |
| 12 | | TRUARC RING: (PLTD.) E-50 |
| 13 | 60-021563-13B | BLADE SEAL: SANTOPRENE |
| 14 | 60-021563-19B | JAMB SEAL: STN. STL. |
| 15 | | TRAVEL STOP: 1 1/4" x 1" x 3/4" x .06 ALUM. |
| 16 | ⊙ | FRAME BRACE: 3/4" x 3/4" x 1/8" thk. ALUM. ANGLE |
| 17 | | |
| 18 | | |
| 19 | | |
| 20 | | |
| 21 | | |
| 22 | | |
| 23 | | |
| 24 | | |
| 25 | | |

NOTES:

- TRAVEL STOP (ITEM 15) TO BE CENTERED ALONG BLADE LENGTH WITH 1" LEG ATTACHED TO FRAME BY 1/16" WELDS, # 10 TEK SCREWS OR 3/16" RIVETS. 1 1/4" LEG TO BE 1/16" AWAY FROM BLADE IN FULLY CLOSED POSITION.
- BLADE LENGTH TO BE 9/32" LESS THAN INSIDE FRAME DIM.
- FRAMES TO BE CAULKED AT CORNERS.
- ONE OVER TRAVEL STOP (ITEM 9) REQUIRED ON P.B. DAMPERS ONLY.
- FRAME BRACE (ITEM #16) IS REQUIRED ON ALL UNITS ABOVE 48" 'B' DIMENSION, LOCATED APPROXIMATELY CENTER OF DAMPER FRONT AND BACK SIDES.

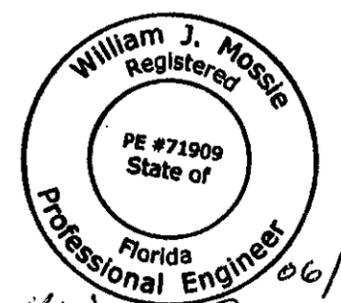
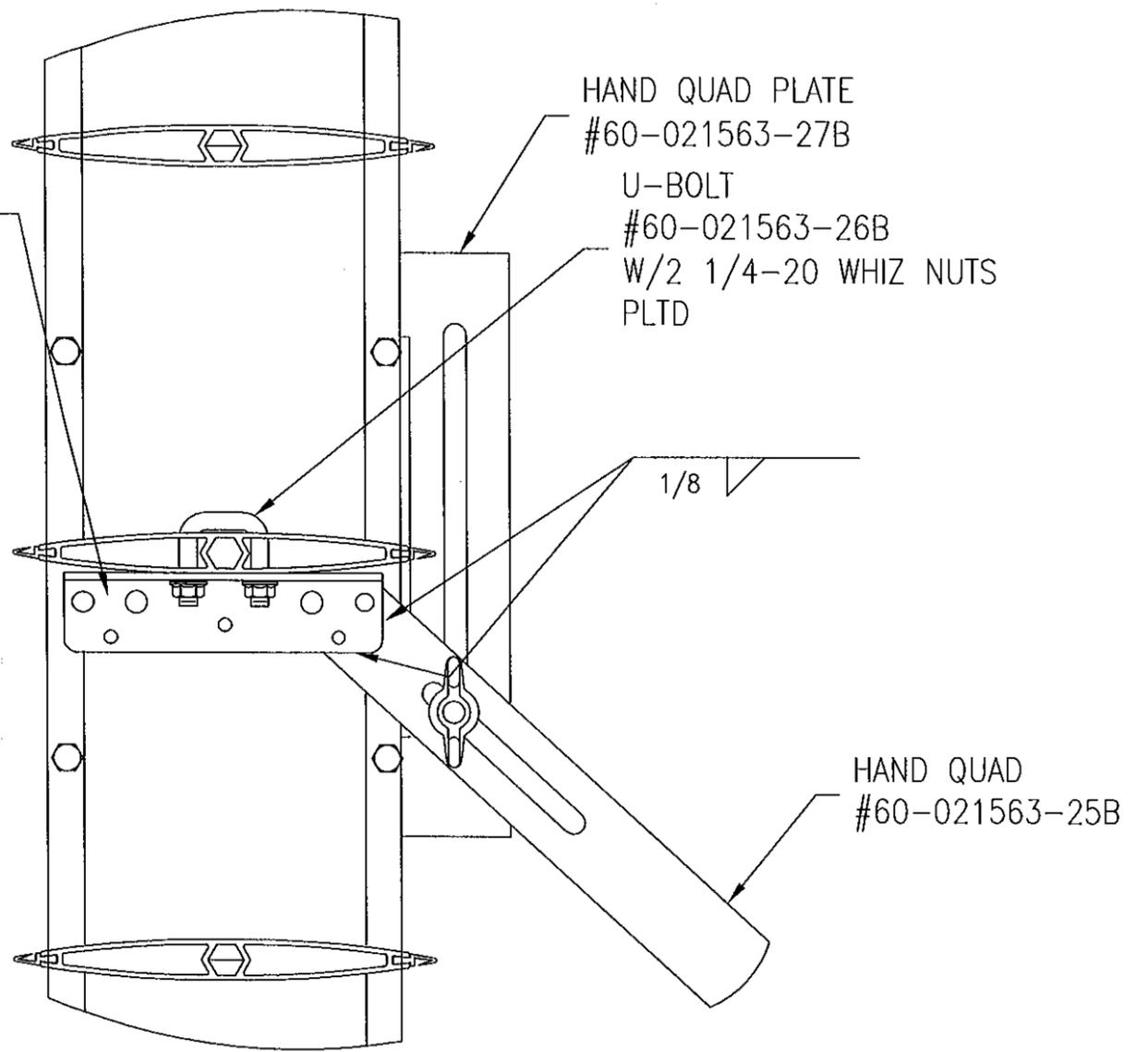
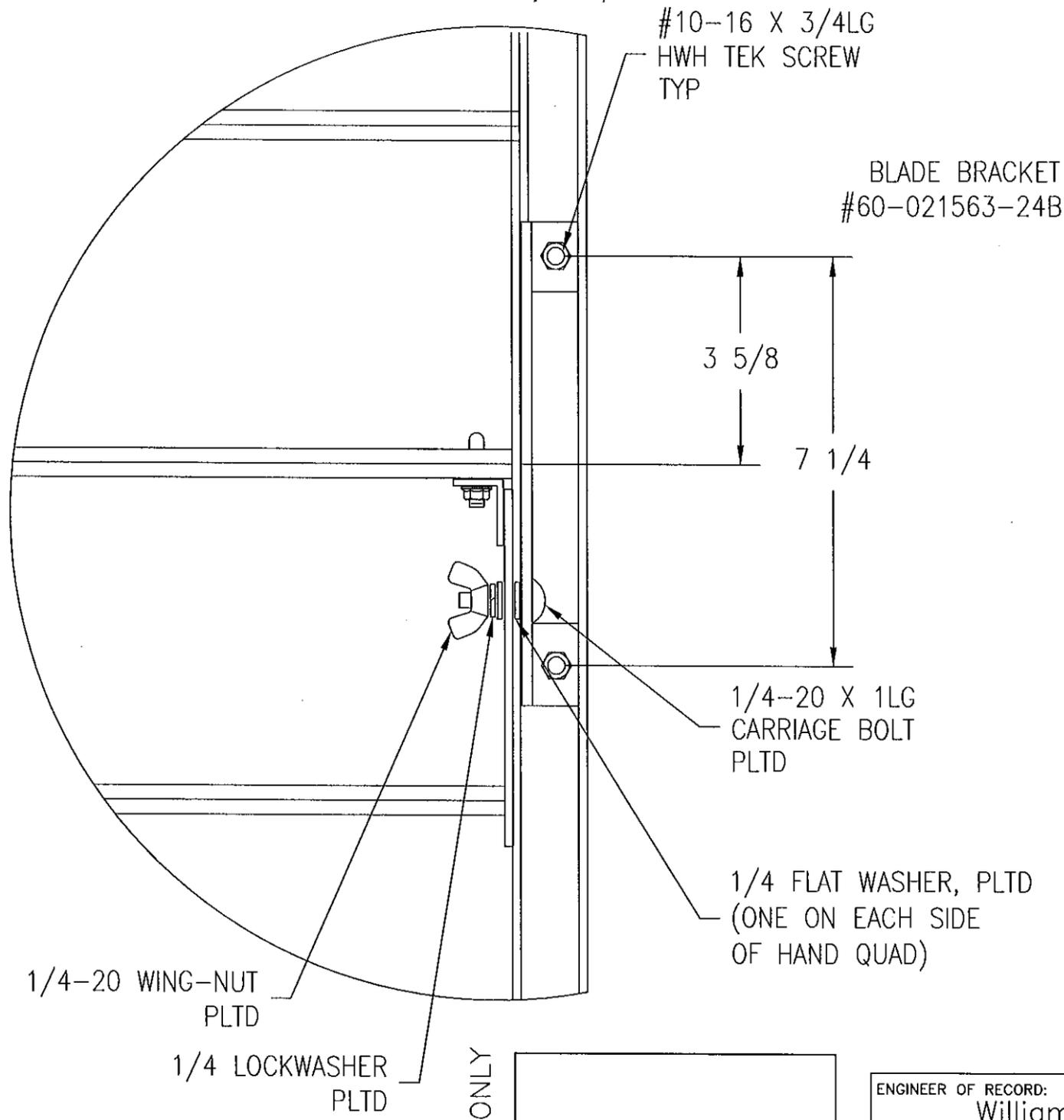
FOR OFFICE USE ONLY

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 11-0408.04
Expiration Date 07/09/2012
By [Signature]
Miami Dade Product Control



William J. Mossie
06/13/11

| | | | | | | | | | |
|---|------------|--|------------|---|-----|-------------------------------|-----------|------------|------|
| OWNER OF RECORD: William J. Mossie | | CHANGE LETTER | | REVISION DESCRIPTION | | ENCL. BY | CHK'D. BY | APPR'D. BY | DATE |
| ENGINEERING DISCIPLINE: Civil Engineer | | REGISTRATION #: State of Florida # 71909 | | PROJECT SCALE: RUSKIN Mig. Grandvies, MD | | ENCL. BY | | DATE | |
| DATE: 4/2/88 | BY: DDM | DATE: 08-13-11 | BY: WJM | DATE: | BY: | NONE | | DATE: | |
| DADE COUNTY, FLORIDA | | TITLE: CD-50 STANDARD DAMPER ASSEMBLY | | DWG. NO.: | | 60-021806-09D Sheet 5 Of 6 | | | |



06/13/11
William J. Mossie

FOR OFFICE USE ONLY

PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No *11-0408,04*
 Expiration Date *07/09/2012*
 By *[Signature]*
 Miami/Dade Product Control

| | | | | | | | | | | | | |
|---|----------|--------------------|-------------|---|--|---------------------------|--|--------------------|------------|--|-------------|------|
| ENGINEER OF RECORD: William J. Mossie | | | | CHANGE LETTER | | REVISION DESCRIPTION | | DWN. BY: | CHK'D. BY: | APPV'D. BY: | APPV'D. BY: | DATE |
| ENGINEERING DISCIPLINE: Civil Engineer | | | | REGISTRATION #: State of Florida # 71909 | | RUSKIN Mfg. Grandview, MD | | PLOT SCALE NONE | | DWG. CERTIFIED BY: _____ DATE: _____ | | |
| DWN. BY: DDM | CHK. BY: | APPV'D. BY: WJM | APPV'D. BY: | DATE: 4/2/98 | | DATE: 06-13-11 | | DATE: | | DWG. NO. 60-021806-24B Sheet 6 of 6 | | |
| TITLE HAND QUAD CD-50 DAMPER | | | | | | | | | | | | |