



**MIAMI-DADE COUNTY**  
**BUILDING CODE COMPLIANCE OFFICE (BCCO)**  
**PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA**  
**METRO-DADE FLAGLER BUILDING**

**140 WEST FLAGLER STREET, SUITE 1603**  
**MIAMI, FLORIDA 33130-1563**  
**(305) 375-2901 FAX (305) 375-2908**

[www.miamidade.gov](http://www.miamidade.gov)

**NOTICE OF ACCEPTANCE (NOA)**

**Hurst Awning Co., Inc.**  
**6865 N.W. 36<sup>th</sup> Ave.**  
**Miami, FL 33147**

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

**DESCRIPTION: Aluminum Bahama Sun Shade (This is NOT a Shutter)**

**APPROVAL DOCUMENT:** Drawing No. 09-098, titled "Shade Bahama Decorative Shade Louver", sheets 1 through 5 of 5, prepared by EngCo., Inc., dated May 16, 2009, signed and sealed by Pedro De Figueiredo, P.E., on June 30, 2009, bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Division.

**MISSILE IMPACT RATING: NONE**

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and the 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 consists of this page 1, evidence submitted page E-1 as well as approval document mentioned above. The submitted documentation was reviewed by **Helmy A. Makar, P.E., M.S.**



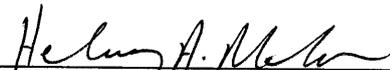
*Helmy A. Makar*  
 09/09/2009

**NOA No. 09-0331.08**  
**Expiration Date: 04/01/2014**  
**Approval Date: 09/09/2009**

**Hurst Awning Co., Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

1. **EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #03-1030.03**
  - A. **DRAWINGS**
    1. *Drawing No. 03-206, titled "Shade Bahama", sheets 1 through 3 of 3, prepared by Knezevich & Associates, Inc., dated October 12, 2003, last revision #1 dated March 04, 2004, signed and sealed by V.J. Knezevich, P.E.*
  - B. **TESTS**
    1. *Test report on Uniform Static Air Pressure Test, per TAS 202, on Bahama Shade, prepared by Construction Testing Corporation, Report No. 03-019, dated August 21, 2003, signed and sealed by Yamil G. Kuri, P.E.*
  - C. **CALCULATIONS**
    1. *Anchor calculation, titled " Shade Bahama " dated October 15, 2003, Pages 1 through 3 of 3, prepared by Knezevich & Associates, Inc., signed and sealed by V.J. Knezevich, P.E.*
  - D. **QUALITY CONTROL**
    1. *By Miami-Dade County Building Code Compliance Office.*
  - E. **MATERIAL CERTIFICATIONS**
    1. *Mill Certified Inspection Report issued by INDALEX, dated 12/13/94, with chemical composition and mechanical properties for aluminum alloy 6063-T6 for louver blade Part no. GAS-42150.*
    2. *Certified Tensile Test Report No. HETI 94-T43, for colonial shutter specimen, prepared by Hurricane Engineering & Testing, Inc., Report , dated 11/09/9494, per ASTM-E8-93, signed and sealed by Hector M. Medina, P.E.*
2. **NEW EVIDENCE SUBMITTED**
  - A. **DRAWINGS**
    1. *Drawing No. 09-098, titled "Shade Bahama Decorative Shade Louver", sheets 1 through 5 of 5, prepared by EngCo., Inc., dated May 16, 2009, signed and sealed by Pedro De Figueiredo, P.E., on June 30, 2009.*
  - B. **TESTS**
    1. *None.*
  - C. **CALCULATIONS**
    1. *Anchor calculation, titled " Shade Sun Bahama FBC 2007" dated June 30, 2009, 23 Pages, prepared by EngCo., Inc., signed and sealed by Pedro De Figueiredo, P.E.*
  - D. **QUALITY CONTROL**
    1. *By Miami-Dade County Building Code Compliance Office.*
  - E. **MATERIAL CERTIFICATIONS**
    1. *None.*



**Helmy A. Makar, P.E., M.S.**  
**Senior Product Control Examiner**  
**NOA No. 09-0331.08**  
**Expiration Date: 04/01/2014**  
**Approval Date: 09/09/2009**

**GENERAL NOTES: - (FLORIDA BUILDING CODE 2007)**

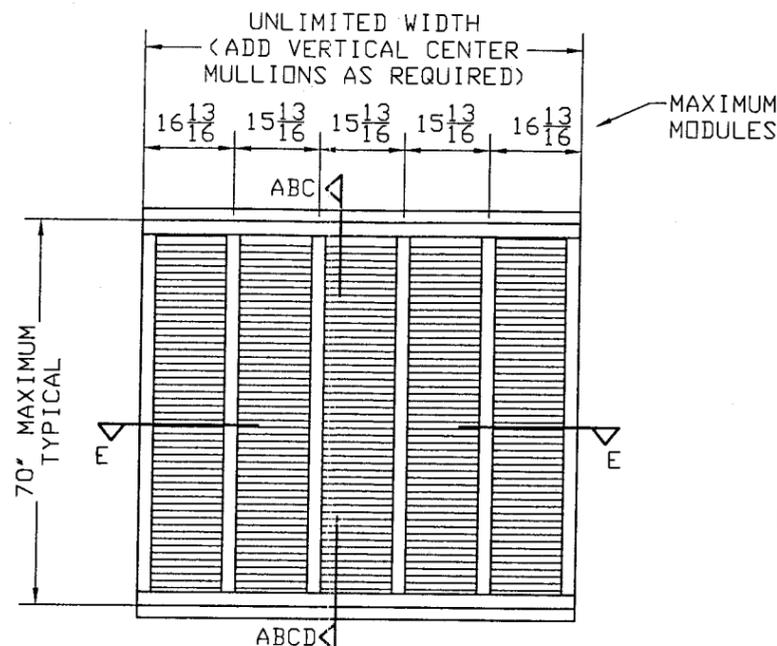
- 1- DEFINITION: THIS PRODUCT IS A SHADE BAHAMA, TESTED UNDER TAS 202 & DESIGNED TO BE USED AS DECORATIVE CLADDING AND PROTECTIVE SUN SCREEN. THIS PRODUCT USE IS LIMITED TO THE ALLOWABLE DESIGNED PRESSURE STATED IN THIS APPROVAL AND MUST NOT BE USED AS AN APPROVED HURRICANE PROTECTION DEVICE.
- 2- CODE: THIS PRODUCT IS IN COMPLIANCE WITH THE FLORIDA BUILDING CODE 2007 EDITION.
- 3- POSTING: A PRODUCT MARKING PERMANENT LEGIBLE DECAL SHALL BE PLACED AT A READILY VISIBLE LOCATION STATING THE FOLLOWING:  
  

HURST HURRICANE SHUTTERS  
 MIAMI - FLORIDA  
 DADE COUNTY PRODUCT CONTROL APPROVED\*
- 4- WARNING LABEL: THIS SHADE BAHAMA MUST BE PROVIDED WITH A WARNING PERMANENT LABEL STATING THAT THIS PRODUCT IS NOT DESIGNED TO PROVIDE IMPACT RESISTANCE THEREFORE NOT APPROVED AS A HURRICANE PROTECTION. THE PRODUCT MAY BE LEFT IN THE OPEN OR CLOSED POSITION DURING HURRICANE EVENT.
- 5- A LICENSED ENGINEER OR ARCHITECT SHALL PROVIDE A SITE SPECIFIC WIND LOAD FOR A PROJECT AS PER ASCE 7-05 OR LATEST. THE CONTRACTOR, ENGINEER OR ARCHITECT SHALL VERIFY THE ADEQUACY OF THIS PRODUCT WITH THE PROJECT WIND LOADS.
- 6- MATERIAL: ALL ALUMINUM EXTRUSIONS SHALL BE 6063-T6 OR AS INDICATED IN THIS SET OF DRAWINGS
- 7- FASTENERS: ASSEMBLY SCREWS AND ANCHORS SHALL BE AS SPECIFIED BY THE CURRENT SET OF DRAWINGS. INSTALLATION AND LOADS AS PER THIS APPROVAL. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING.
- 8- THE CONTRACTOR MUST VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE IN SUSTAINING THE PRODUCT IMPOSED LOADS.
- 9- MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL/ METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF 2007 FBC SECTION 2003.8.4.

**TABLE OF CONTENTS:**

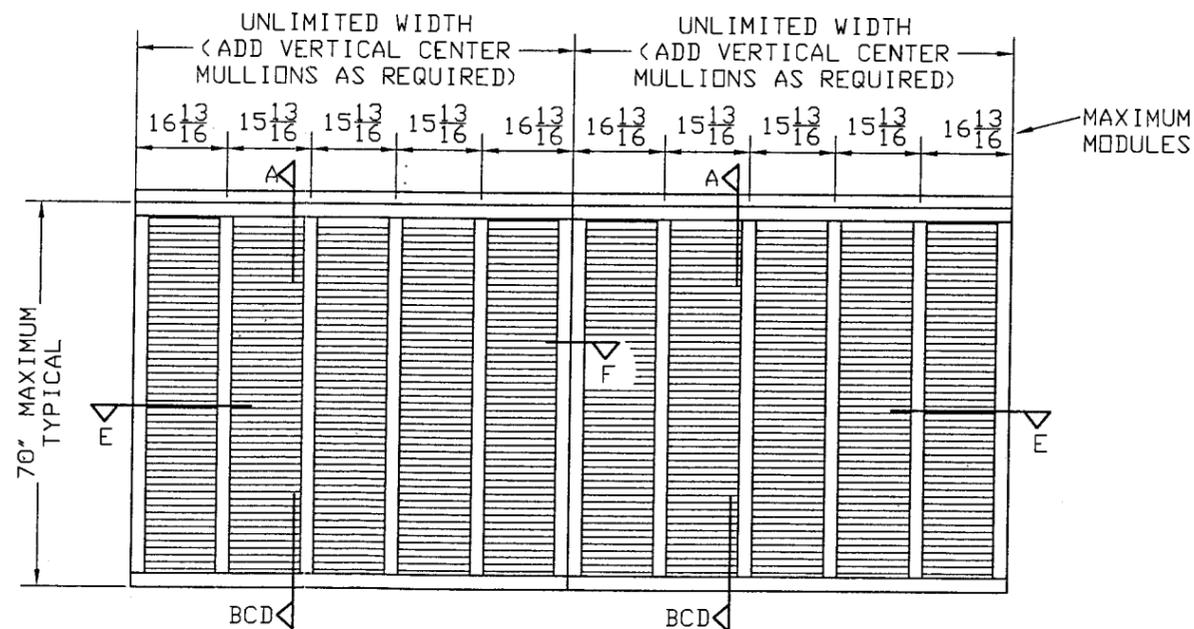
SHEET	DESCRIPTION
1	GENERAL NOTES & TYPICAL ELEVATIONS TABLE OF CONTENTS & ALLOWABLE PRESSURES
2	VERTICAL SECTIONS SECTIONS AA, BB, CC
3	VERTICAL SECTION D AND HORIZONTAL SECTIONS E AND F
4	ANCHOR SCHEDULE, SHADE ASSEMBLY
5	PRODUCT COMPONENTS

**SINGLE SHADE FRONT ELEVATION**



ALLOWABLE PRESSURES:
PD= +62.4 PSF, -72.8 PSF
CLOSED OR OPEN POSITION:
NON IMPACT RESISTANT

**MULTIPLE SHADE FRONT ELEVATION**



MANUFACTURER:  
**Hurst Hurricane Shutters**  
 6865 NW 36th AVE.  
 MIAMI, FLORIDA 33147  
 TEL.: (305) 635-0900  
 FAX.: (305) 634-9078

PRODUCT:  
**SHADE BAHAMA**  
 DECORATIVE SHADE LOUVER

Engineering:  
**EngCo Inc.**  
 CA 8116  
 6971 W. Sunrise Blvd. 104  
 Plantation, Fl. 33313  
 ENGCO@AOL.COM

JUN 20 2009

Engineer Seal  
 Pedro De Figueiredo  
 PE 52609

DRAFTING:  
**PK DRAFTING & MORE**

MIAMI-DADE BCCO:

PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No 09-0331.08  
 Expiration Date 04/01/2014  
 By *Herly A. M...*  
 Miami Dade Product Control  
 Division

Date: 05/16/09  
 Scale: NA  
 Design by: PPMF

Drawing Number  
**09-098**

SHEET  
**1 of 5**

MANUFACTURER:  
**Hurst Hurricane Shutters**

8665 NW 36th AVE.  
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JUN 30 2009

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MIAMI-DADE BCCO:

PRODUCT REVISED  
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 By *Helmy H. W. [Signature]*  
 Miami Dade Product Control  
 Division

Date: 05/16/09  
 Scale: NA  
 Design by: PPMF

Drawing Number  
**09-098**

SHEET  
**2 of 5**

**VERTICAL SECTIONS**

ANCHORS TYPE	SPACING
A1, A3, C1	12" OC
D1, D2, D3	12" OC
A2	11" OC
B1, B2	4" OC

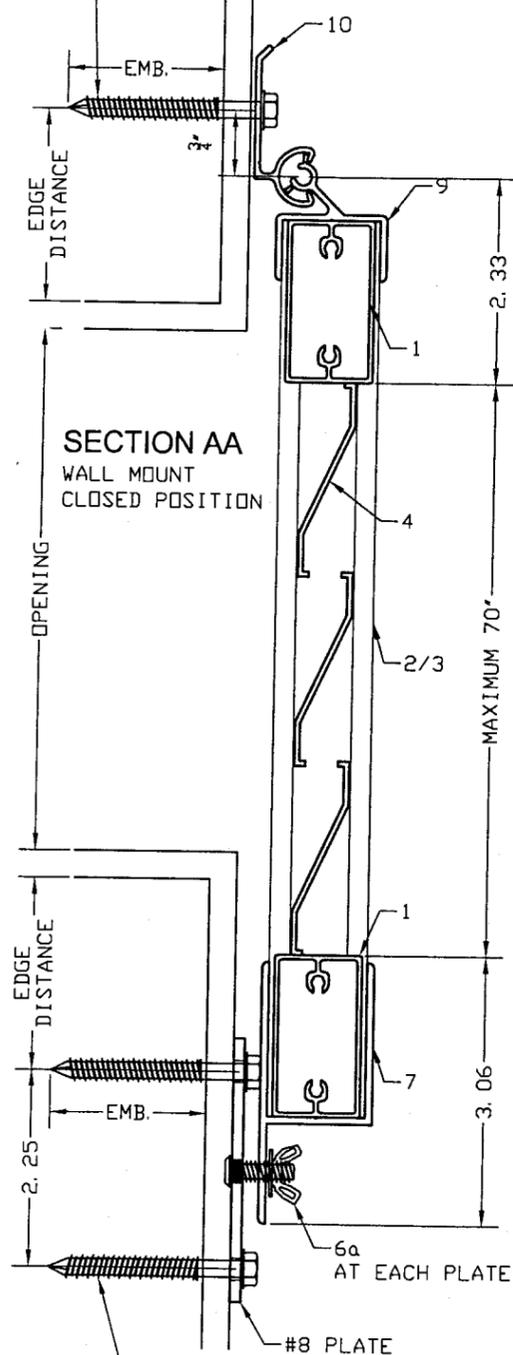
ANCHOR SCHEDULE ON SHEET 4

ANCHORS TYPE	SPACING
A1, A2, A3	12" OC
D1, D2, D3	12" OC
C1	12" OC
B1, B2	5" OC

ANCHOR SCHEDULE ON SHEET 4

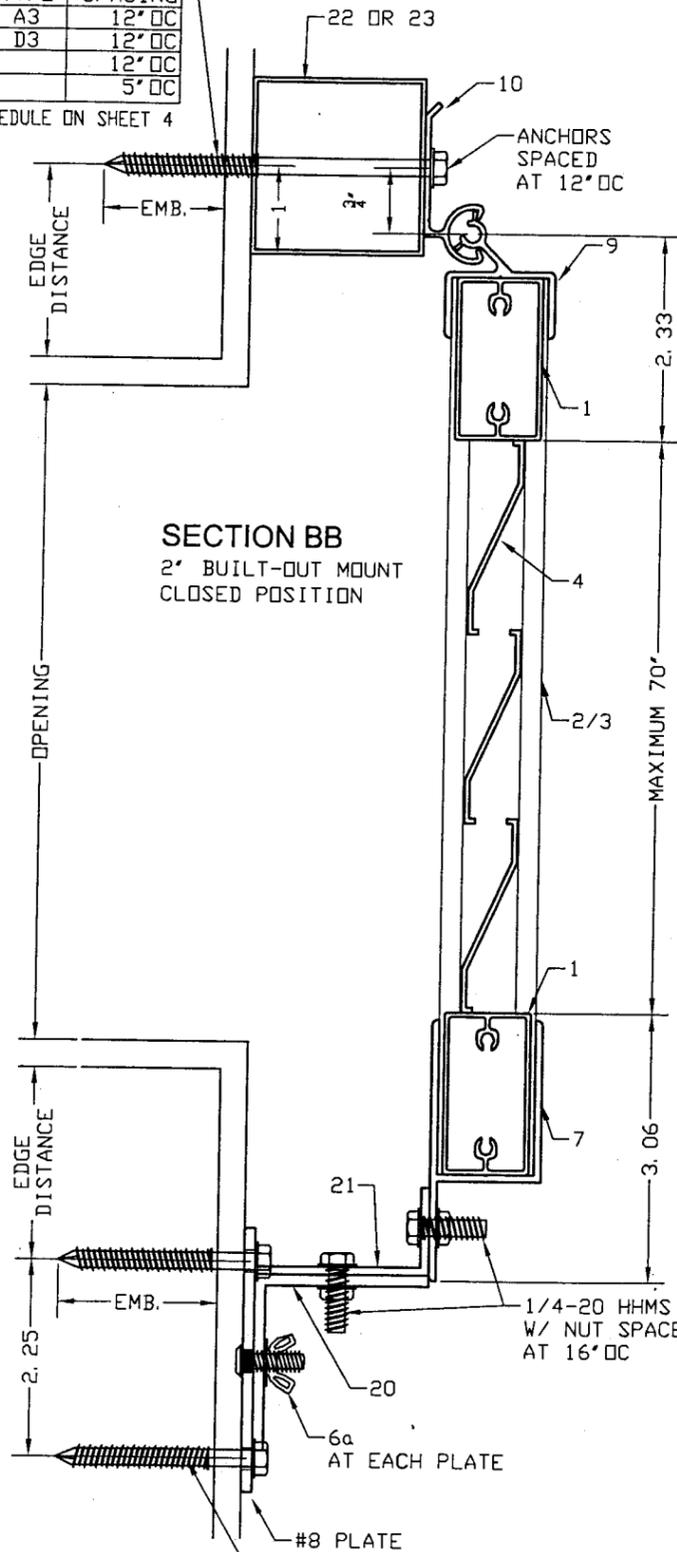
ANCHORS TYPE	SPACING
A3	12" OC
D1, D2, D3	8" OC
A1, A2, C1	8" OC
B1, B2	3" OC

ANCHOR SCHEDULE ON SHEET 4



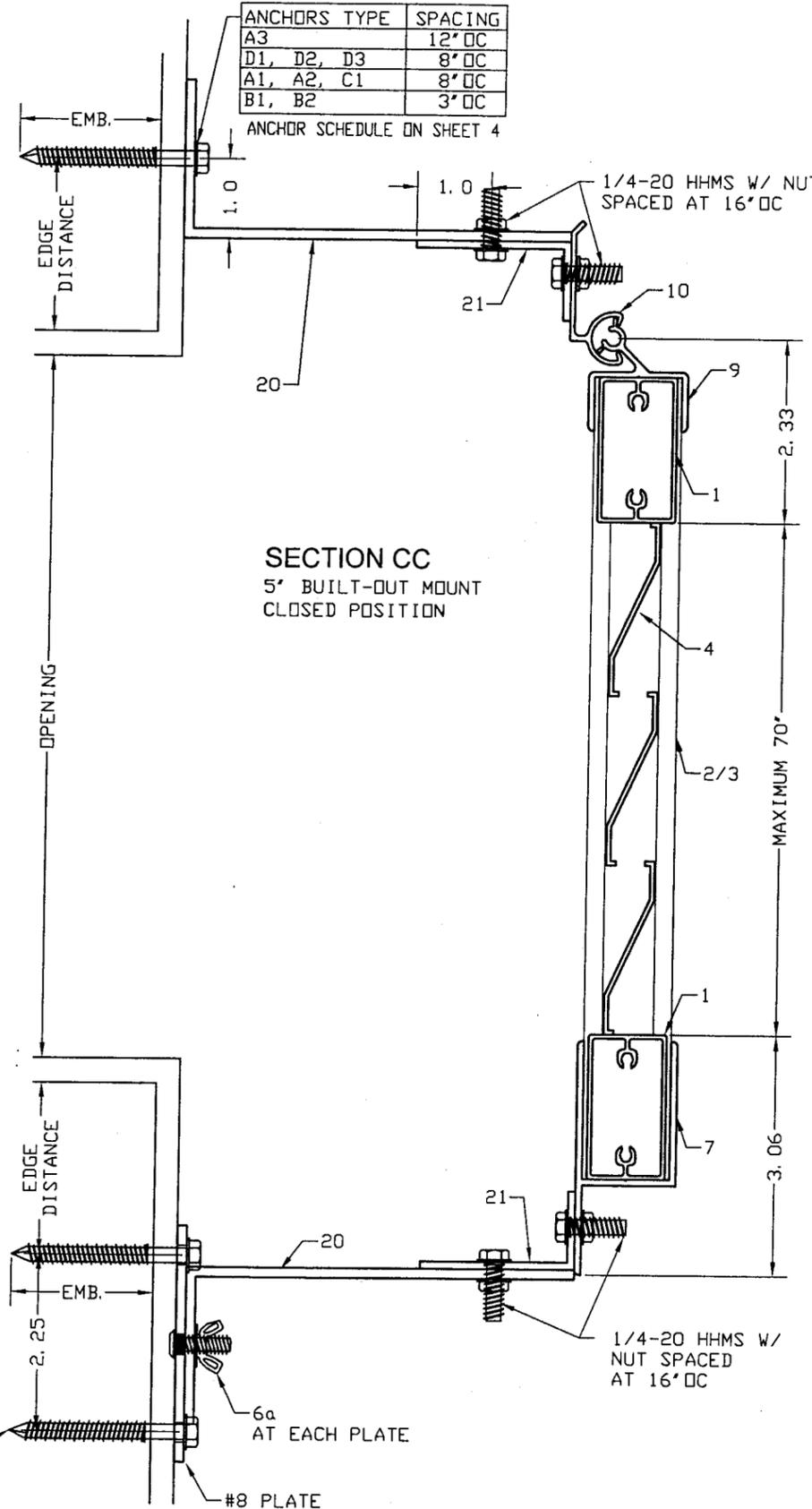
ANCHOR TYPE	PLATE SPACING	# OF ANCHORS PER PLATE
A1, A2, A3	32	2
B1	32	4
B2	29	4
C1, D1, D2, D3	32	2

ANCHOR SCHEDULE ON SHEET 4



ANCHOR TYPE	PLATE SPACING	# OF ANCHORS PER PLATE
A1, A2, A3	32	4
B1	14	4
B2	12	4
C1, D1, D2, D3	32	4

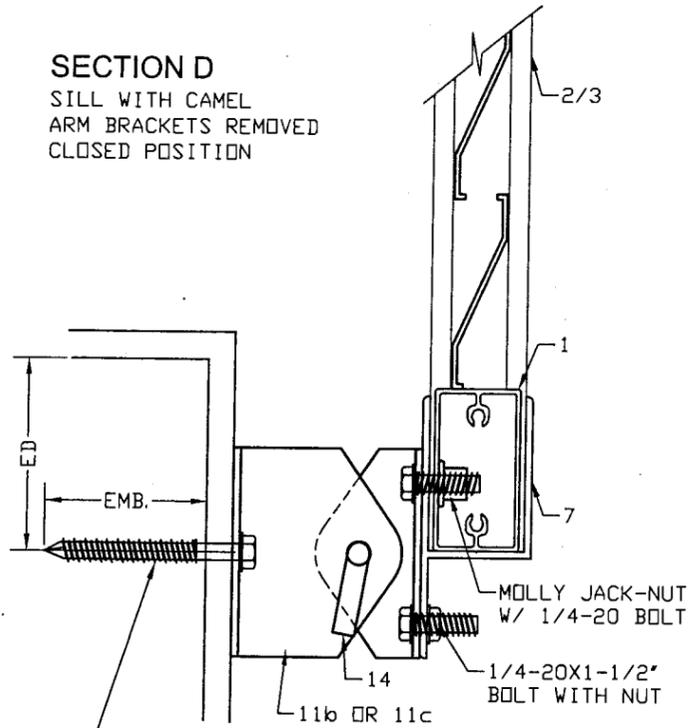
ANCHOR SCHEDULE ON SHEET 4



**VERTICAL SECTIONS**

**SECTION D**

SILL WITH CAMEL  
ARM BRACKETS REMOVED  
CLOSED POSITION

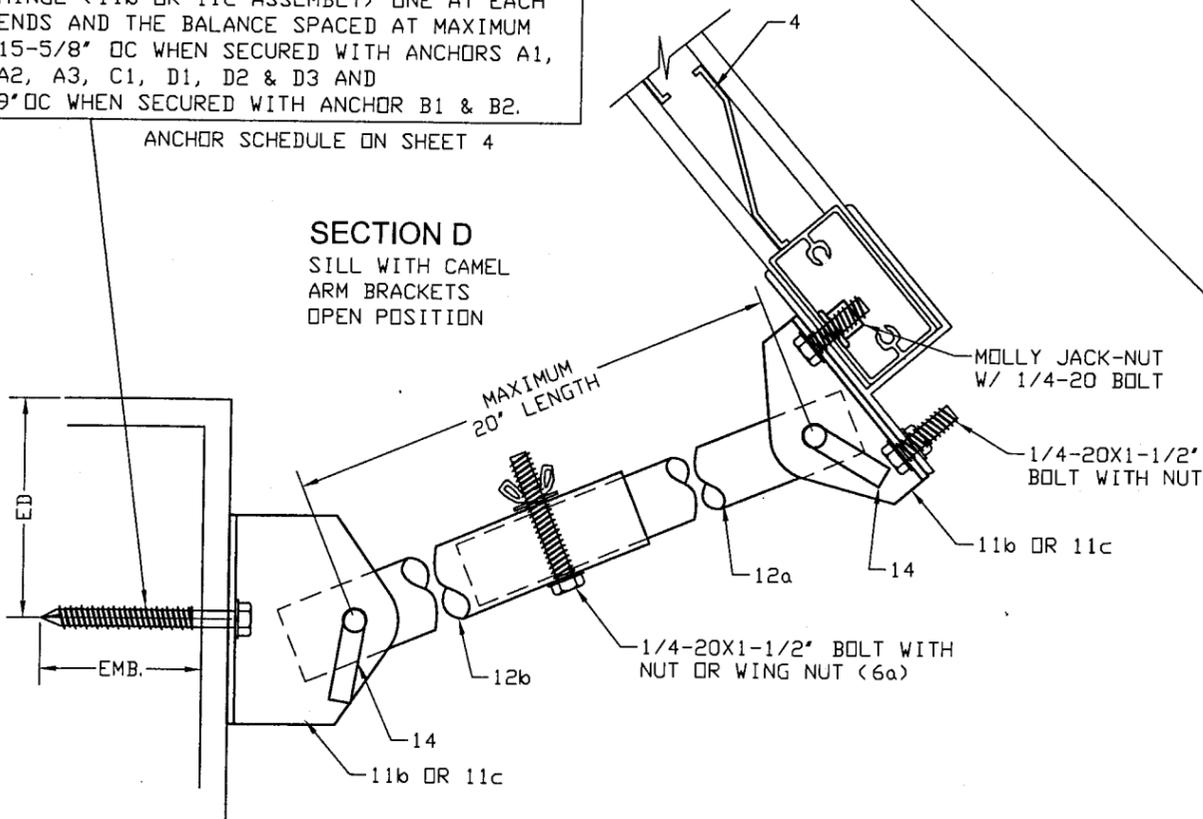


NOTE:  
ALUMINUM PIPES (REMOVABLE) AND CAMEL BACK  
HINGE (11b OR 11c ASSEMBLY) ONE AT EACH  
ENDS AND THE BALANCE SPACED AT MAXIMUM  
15-5/8" OC WHEN SECURED WITH ANCHORS A1,  
A2, A3, C1, D1, D2 & D3 AND  
9" OC WHEN SECURED WITH ANCHOR B1 & B2.

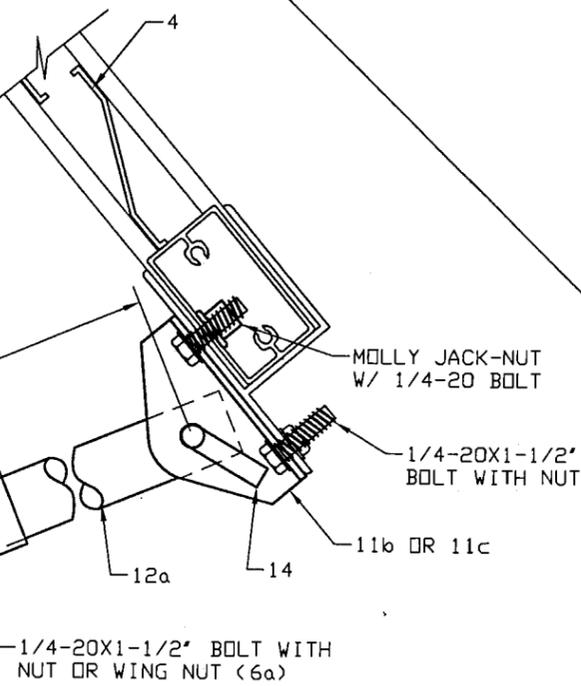
ANCHOR SCHEDULE ON SHEET 4

**SECTION D**

SILL WITH CAMEL  
ARM BRACKETS  
OPEN POSITION



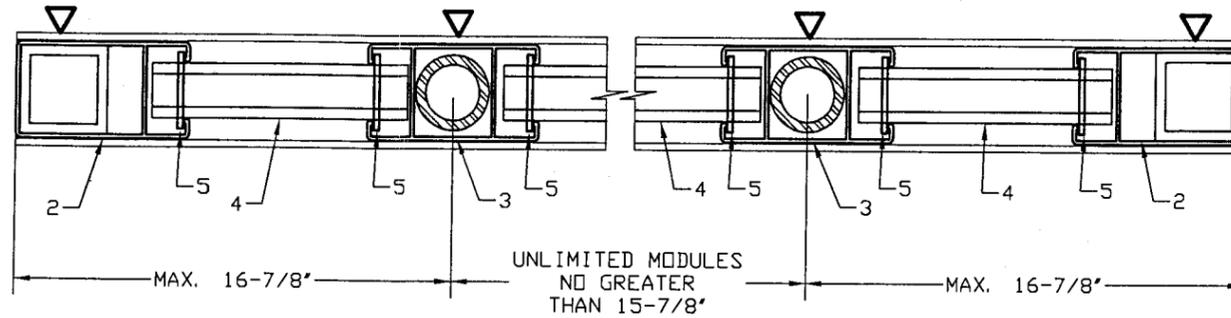
MAXIMUM  
20" LENGTH



**HORIZONTAL SECTIONS**

**SECTION E**

SINGLE HORIZONTAL SECTION



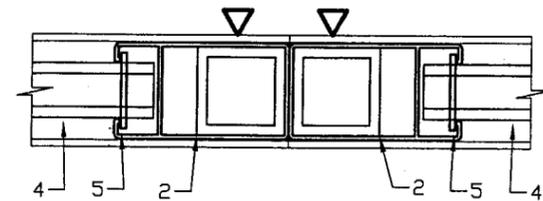
UNLIMITED MODULES  
NO GREATER  
THAN 15-7/8'

NOTE:  
ALUMINUM PIPES (REMOVABLE) AND CAMEL BACK  
HINGE (11b OR 11c ASSEMBLY) ONE AT EACH  
ENDS AND THE BALANCE SPACED AT MAXIMUM  
15-5/8" OC WHEN SECURED WITH ANCHORS A1,  
A2, A3, C1, D1, D2 & D3 AND  
9" OC WHEN SECURED WITH ANCHOR B1 & B2.

ANCHOR SCHEDULE ON SHEET 4

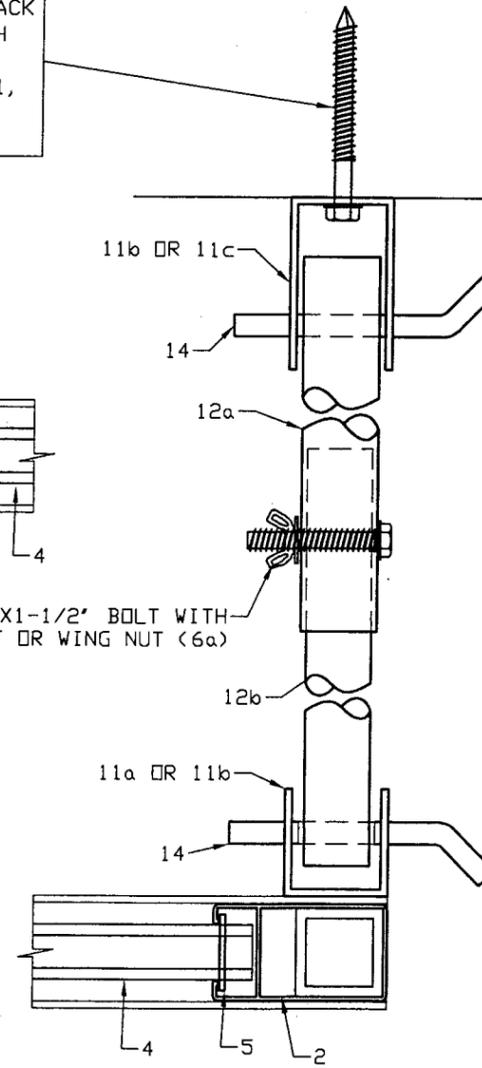
**SECTION F**

MULTIPLE UNITS SECTION



1/4-20X1-1/2" BOLT WITH  
NUT OR WING NUT (6a)

REMOVABLE ARM  
OPEN UNITS  
WITH REMOVABLE ARMS



NOTE:  
ALUMINUM PIPES (REMOVABLE) AND CAMEL BACK HINGE  
(11b OR 11c ASSEMBLY) ONE AT EACH ENDS AND THE  
BALANCE SPACED AT MAXIMUM 15-5/8" OC WHEN SECURED  
WITH ANCHORS A1, A2, A3, C1, D1, D2 & D3 AND  
9" OC WHEN SECURED WITH ANCHOR B1 & B2.

MANUFACTURER:  
**Hurst Hurricane  
Shutters**

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JUN 3 8 2009

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DRAFTING:  
**PK DRAFTING & MORE**

MIAMI-DADE BCCO:

PRODUCT REVISED  
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Expiration Date 04/01/2014  
By *Helena A. Nolasco*  
Miami Dade Product Control  
Division

Date: 05/16/09  
Scale: NA  
Design by: PPMF

Drawing Number  
**09-098**

SHEET  
**3 of 5**

ANCHOR SCHEDULE

	TYPE	DESCRIPTION	SUBSTRATE	EMB.	ED
CONCRETE	A1	1/4" ITW TAPCON	3192 PSI CONCRETE	1.75	2.5
	A2	1/4" ELCO ULTRACON	2700 PSI CONCRETE	1.75	2.5
	A3	"SAMMYS SSC" SCREW	3295 PSI CONCRETE	1.875	2.5
MASONRY	B1	1/4" ITW TAPCON	HOLLOW CMU C90	1.25	2.5
	B2	1/4" ELCO ULTRACON	HOLLOW CMU C90	1.25	2.5
	C1	1/4" ELCO ULTRACON	GF CMU C90	2.25	2.5
WOOD	D1	1/4" TAPCON/ ULTRACON	WOOD SG>=0.55	1.5	0.75
	D2	1/4" LAG SCREWS	WOOD SG>=0.55	1.5	0.75
	D3	"SAMMYS SSC" SCREW	WOOD SG>=0.55	1.5	0.75

NOTES:  
 EMB. - ANCHOR EMBEDMENT  
 ED - EDGE DISTANCE

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*[Signature]*  
 JUN 30 2009

Engineer Seal  
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DRAFTING:  
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MIAMI-DADE BCCO:

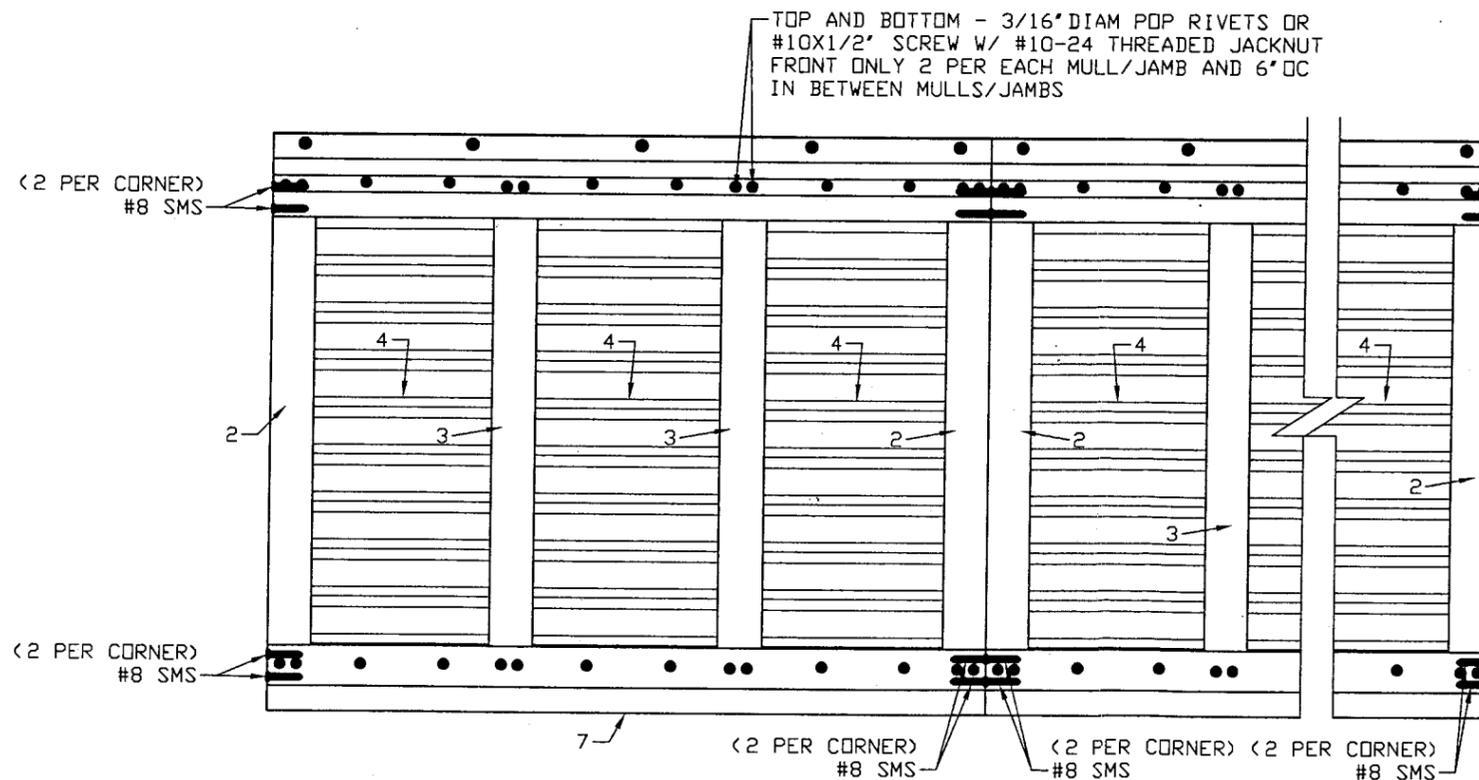
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 By *[Signature]*  
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 Design by: PPMF

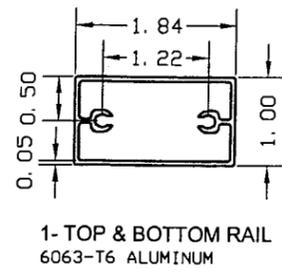
Drawing Number  
**09-098**

SHEET  
 4 of 5

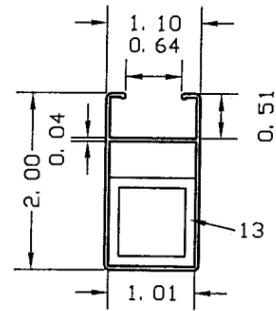
SHADE ASSEMBLY



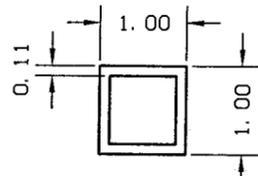
PRODUCT COMPONENTS



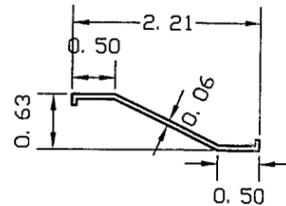
1- TOP & BOTTOM RAIL  
6063-T6 ALUMINUM



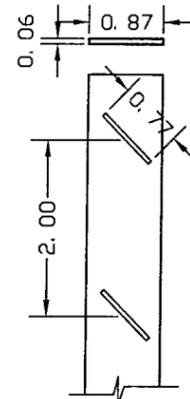
2- JAMB  
6063-T6 ALUMINUM



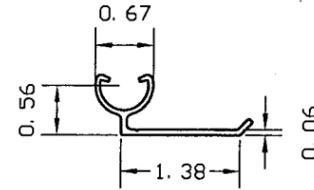
13- TUBE INSERT  
6063-T6 ALUMINUM



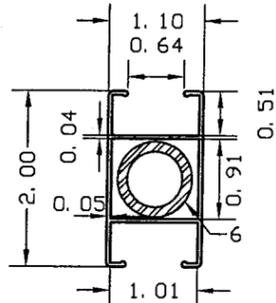
4- LOUVER SLAT  
6063-T6 ALUMINUM



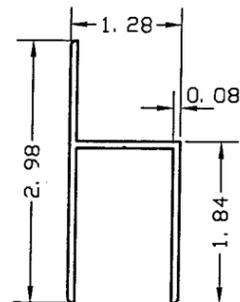
5- LOUVER STRIP  
6063-T6 ALUMINUM



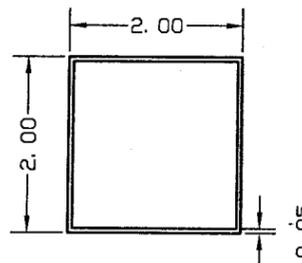
10- FEMALE HINGE  
6063-T6 ALUMINUM



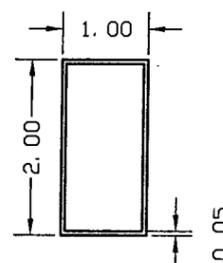
3- CENTER MULLION  
6063-T6 ALUMINUM



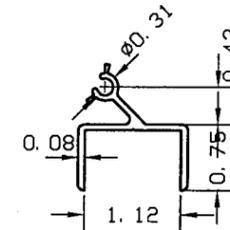
7- TIE DOWN  
6063-T6 ALUMINUM



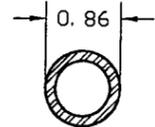
22- 1/16-2X2 TUBE  
6063-T6 ALUMINUM



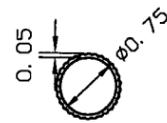
23- 1/16-1X2 TUBE  
6063-T6 ALUMINUM



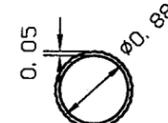
9- MALE HINGE  
6063-T6 ALUMINUM



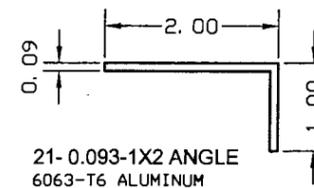
6- STEEL REINFORCEMENT  
ASTM A53 TYPE S GRADE B  
1/2\"/>



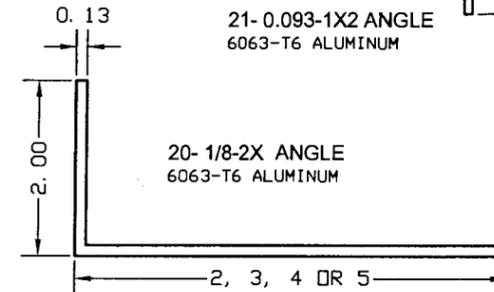
12a- INNER PIPE  
6063-T6 ALUMINUM



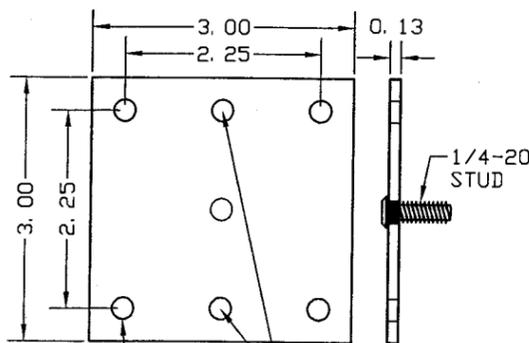
12b- OUTER PIPE  
6063-T6 ALUMINUM



21- 0.093-1X2 ANGLE  
6063-T6 ALUMINUM

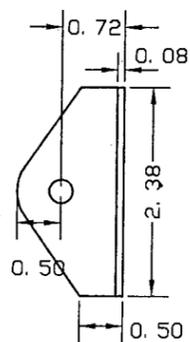


20- 1/8-2X ANGLE  
6063-T6 ALUMINUM

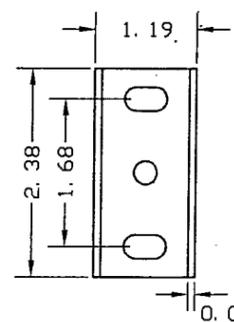


8- TIE DOWN PLATE  
6063-T6 ALUMINUM

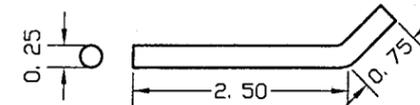
6a- WASHERED WING NUT  
ZAMAC 3 ALLOY



11b- L CAMEL BACK HINGE  
6063-T6 ALUMINUM



11c- XL CAMEL BACK HINGE  
6063-T6 ALUMINUM



14- L PIN  
6063-T6 ALUMINUM

MANUFACTURER:  
**Hurst Hurricane Shutters**  
6865 NW 36th AVE.  
MIAMI, FLORIDA 33147  
TEL.: (305) 635-0900  
FAX.: (305) 634-9078

PRODUCT:  
**SHADE BAHAMA**  
DECORATIVE SHADE LOUVER

Engineering:  
**EngCo Inc.**  
CA 8116  
6971 W. Sunrise Blvd. 104  
Plantation, FL 33313  
ENGCO@AOL.COM

JUN 30 2009

Engineer Seal  
Pedro De Figueiredo  
PE 52609

DRAFTING:  
**PK DRAFTING & MORE**

MIAMI-DADE BCCO:

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 09-0331-08  
Expiration Date 04/01/2014  
By *Helmy A. Helmy*  
Miami Dade Product Control  
Division

Date: 05/16/09  
Scale: NA  
Design by: PPMF

Drawing Number  
**09-098**

SHEET  
**5 of 5**