

BUILDING CODE COMPLIANCE OFFICE (BCCO) PRODUCT CONTROL DIVISION NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY, FLORIDA METRO-DADE FLAGLER BUILDING 140 WEST FLAGLER STREET, SUITE 1603 MIAMI, FLORIDA 33130-1563 (305) 375-2901 FAX (305) 372-6339

www.miamidade.gov/buildingcode

Arrow United Industries 314 Riverside Drive (P.O. Box 69) Wyalusing, PA 18853

SCOPE:

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

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

DESCRIPTION: Model EA-22 4" Aluminum Louver System

APPROVAL DOCUMENT: Drawing No. **35972-4**, titled "EA-22 Test Louver, Architectural & Non-Architectural Louver", sheets 1 through 7 of 7, dated 06/16/00, with revision "B1", dated 04/17/08, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, 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 Division.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official. This NOA renews NOA # 08-0423.03 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.

MIAMI-DADE COUNTY
APPROVED

Alina 11/07/08

NOA No. 08-1030.03 Expiration Date: July 27, 2013 Approval Date: December 4, 2008 Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

Drawing No. **35972-4**, titled "EA-22 Test Louver, Architectural & Non-Architectural Louver", sheets 1 through 7 of 7, dated 06/16/00, with revision "B1", dated 04/17/08, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.

B. TESTS

- 1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 2) Large Missile Impact Test per FBC, TAS 201-94
 - 3) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with marked-up drawings and installation diagram, of "A.U.I. EA-22 Architectural & Non-Architectural Fixed Louver", prepared by Hurricane Test Laboratory, Inc., Report No. **0198-0811-08**, dated 09/17/08, signed and sealed by Vinu J. Abraham, P.E.

C. CALCULATIONS

- 1. Revision calculations prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 04/17/08, signed and sealed by Warren W. Schaefer, P.E.
- 1. Allowable Load Calculations, dated 11/10/99, pages 1 to 3 of 3, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by W. W. Schaefer. P.E.
- 2. Allowable Load Calculations, dated 04/14/00, pages 1 to 6 of 6, prepared by W. W. Schaefer Engineering & Consulting, P.A. signed and sealed by W. W. Schaefer. P.E. "Submitted under NOA No. 03-0514.13"

D. QUALITY ASSURANCE

1. Miami Dade Building Code Compliance Office (BCCO).

E. MATERIAL CERTIFICATIONS

1. None.

Carlos M. Utrera, P.E. Product Control Examiner NOA No. 08-1030.03

Expiration Date: July 27, 2013 Approval Date: December 4, 2008

Arrow United Industries

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS

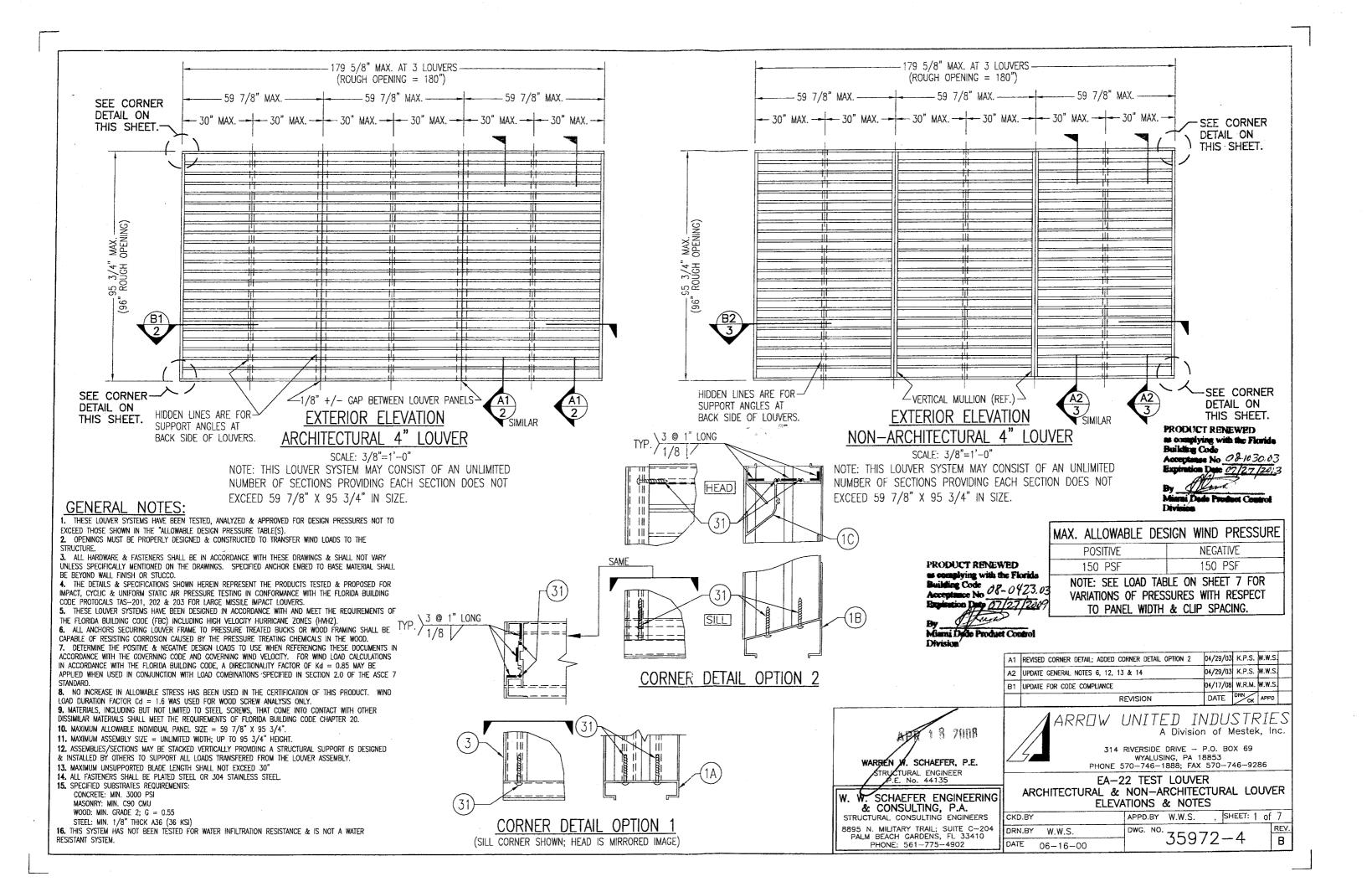
- 1. Code compliance letter issued by W. W. Schaefer Engineering & Consulting, P.A., dated 04/17/08, signed and sealed by Warren W. Schaefer, P.E.
- No change letter issued by W. W. Schaefer Engineering & Consulting, P.A., dated 10/28/08, signed and sealed by Warren W. Schaefer, P.E.
- 3. Test compliance letter issued by Hurricane Test Laboratory, Inc., dated 09/17/08, signed and sealed by Vinu J. Abraham, P.E.
- 4. No financial interest letter issued by W. W. Schaefer Engineering & Consulting, P.A, dated 10/28/08, signed and sealed by Warren W. Schaefer, P.E.

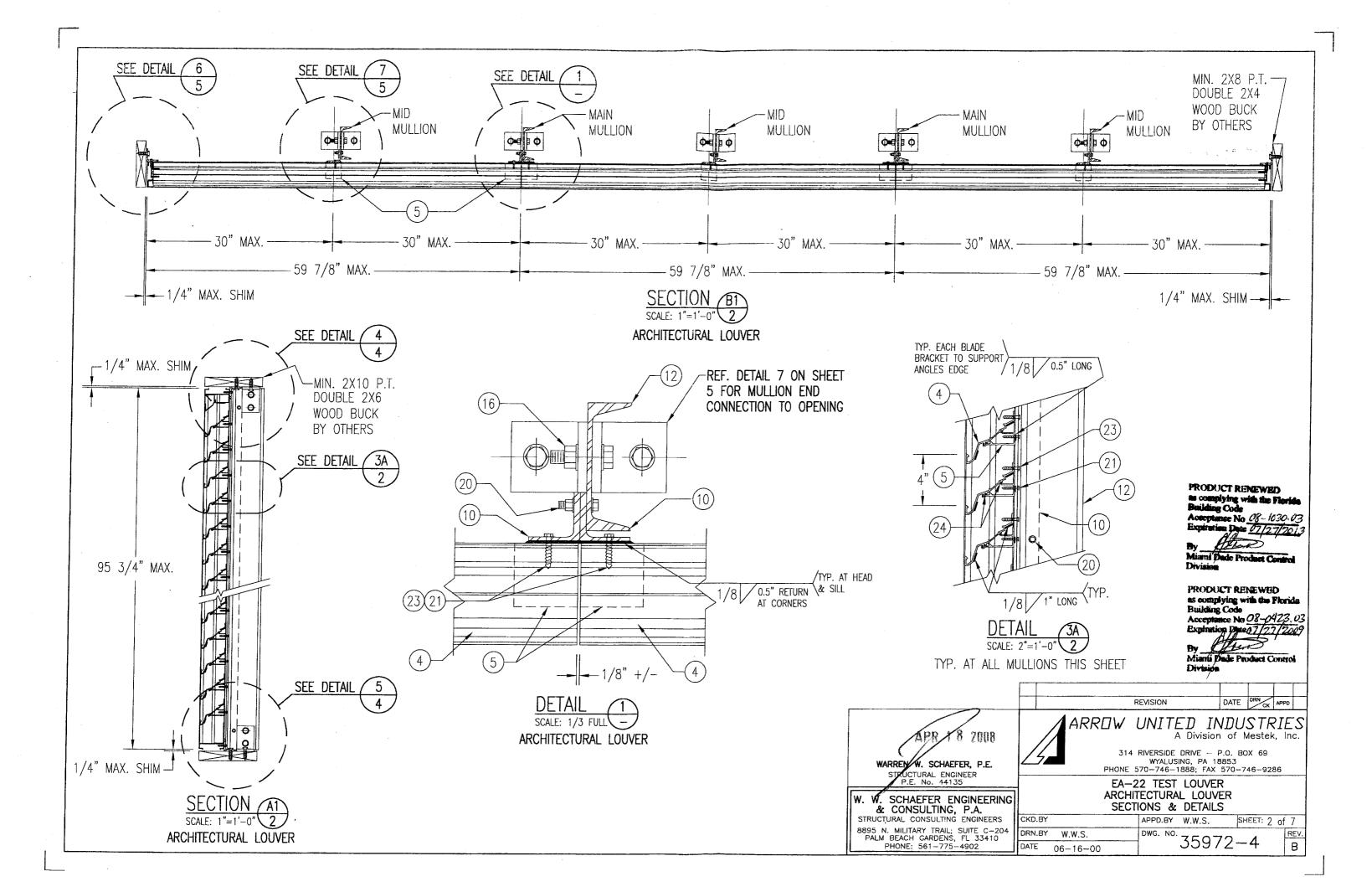
G. OTHER

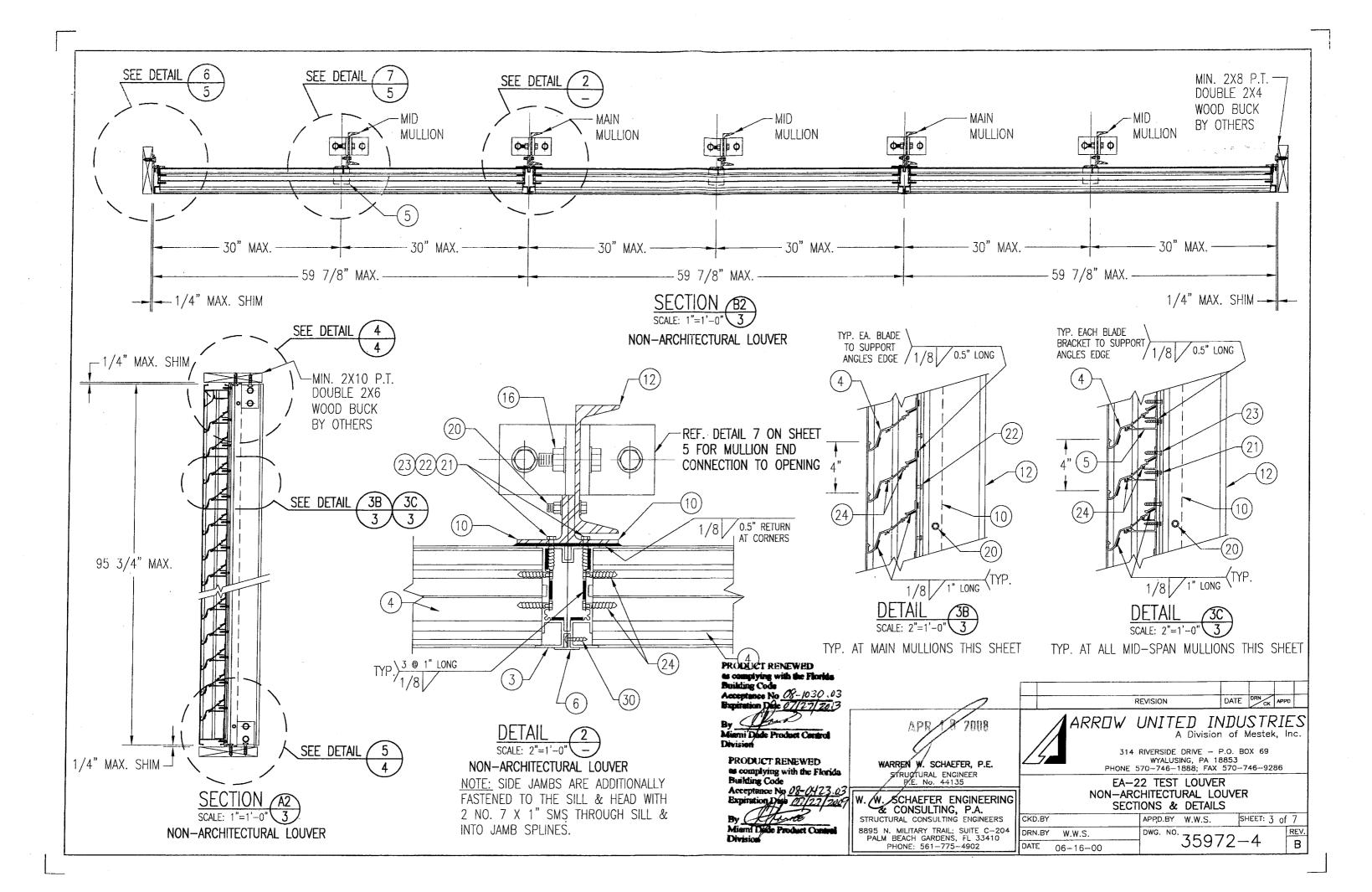
1. Notice of Acceptance No. **08-0423.03**, issued to Arrow United Industries, approved on 07/24/08 and expiring on 07/27/09.

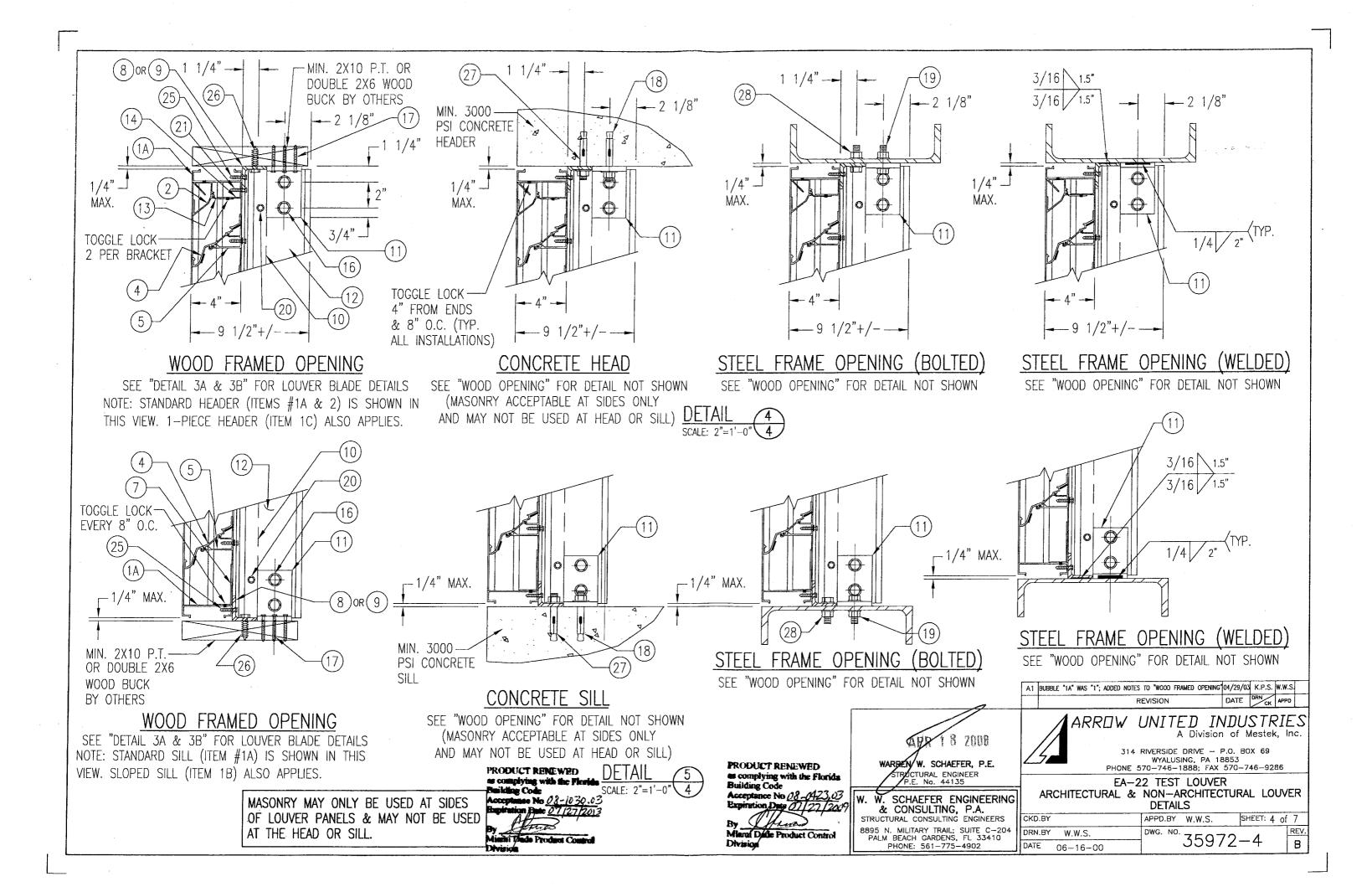
Carlos M. Utrera, P.E. Product Control Examiner NOA No. 08-1030.03

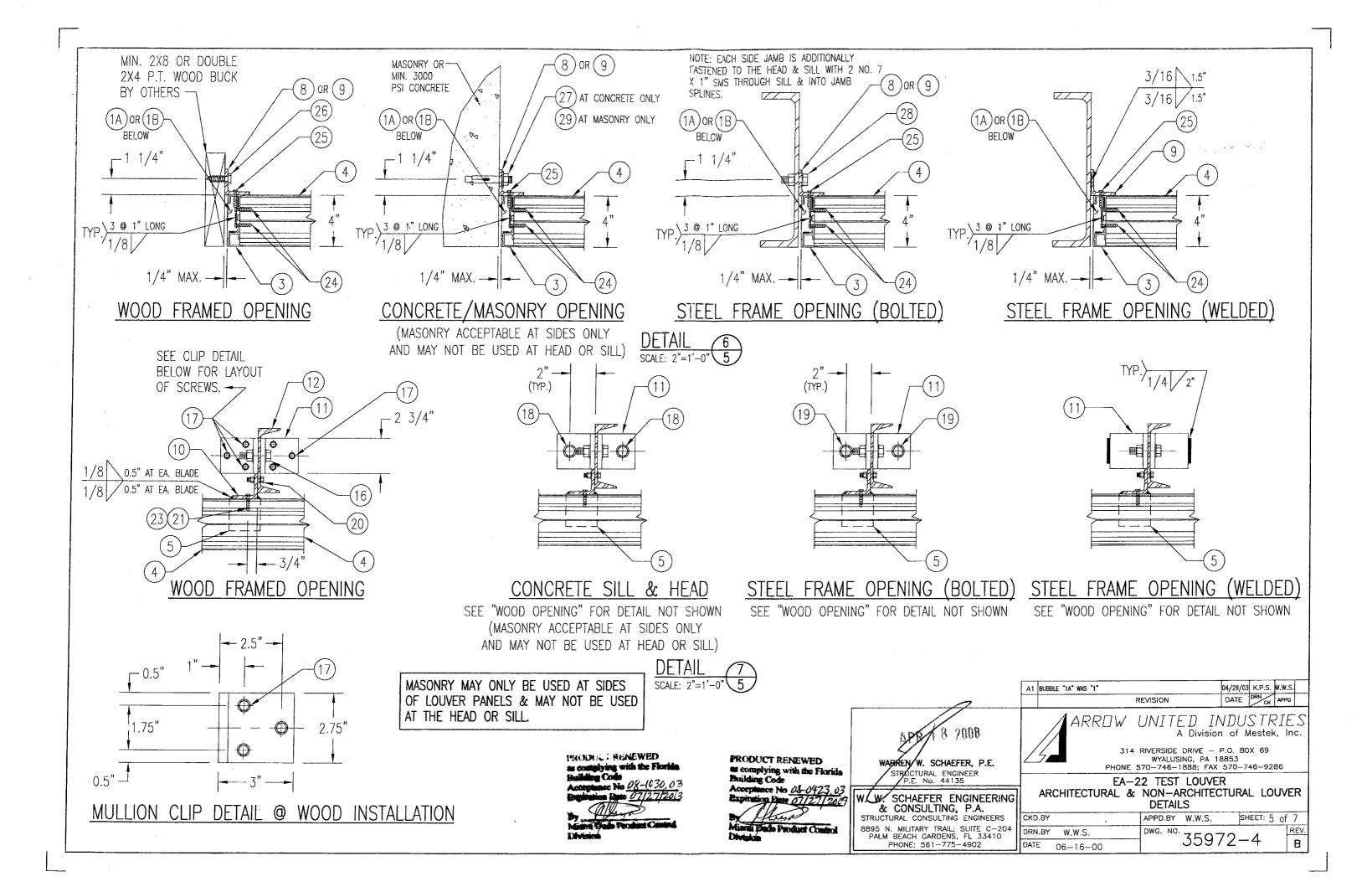
Expiration Date: July 27, 2013 Approval Date: December 4, 2008

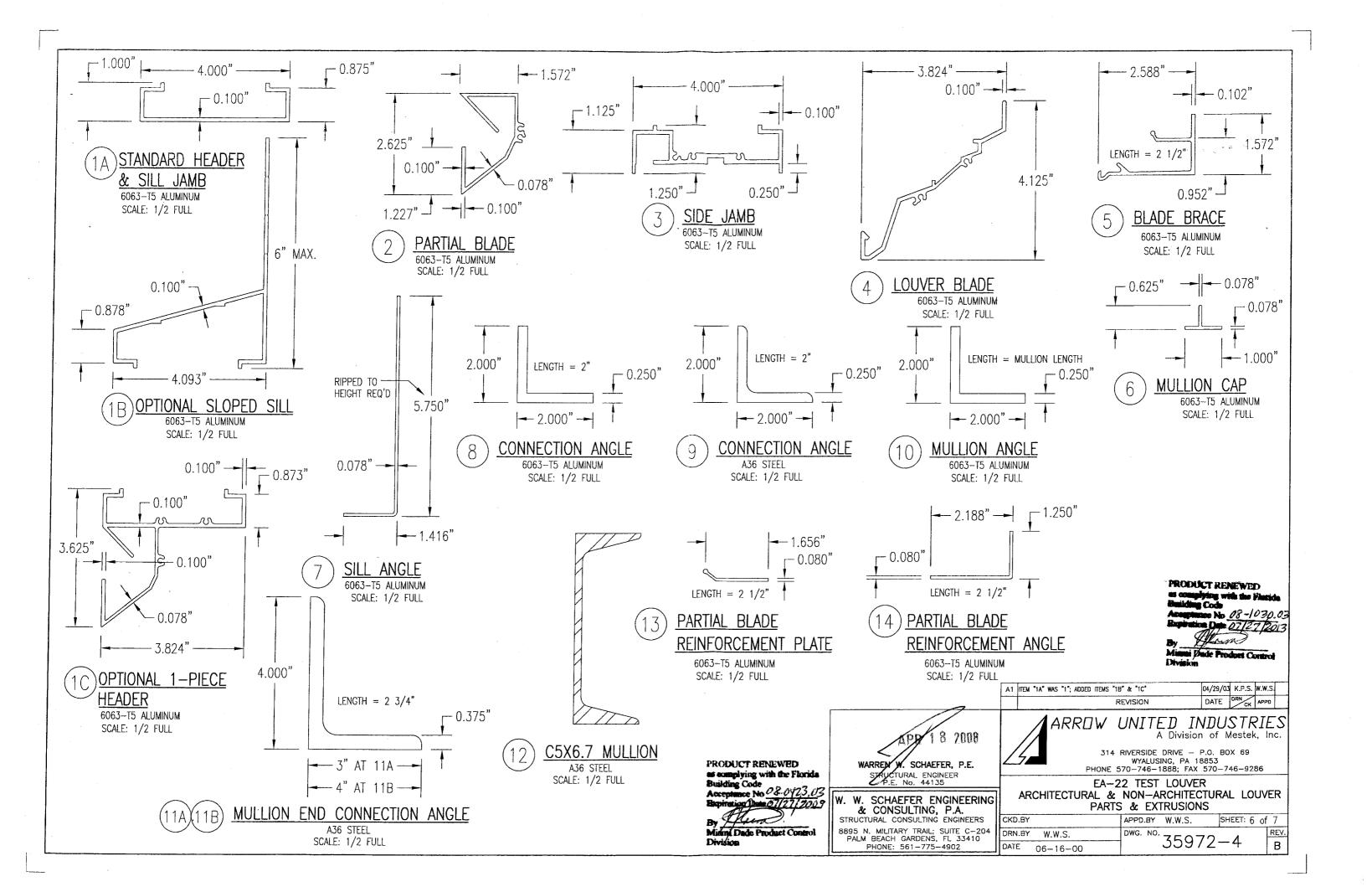












	AND	ESSURE VS. JAMB C PANEL WIDTH	LIP SPAUING
PANEL WIDTH (INCHES)	CLIP SPACING (INCHES)	ALLOWABLE PRESSURE WITH MID SPAN MULLION (PSF)	ALLOWABLE PRESSURE WITHOUT MID SPAN MULLIOI (PSF)
(INCITES)			
20	8	150	150
	12	150	150
	16	150	140
	20	150	105
	24	150	70
	8	150	150
	12	150	· 140
	16	150	112
	20	150	84
	24	150	56
	8	150	140
4	12	150	117
24	16	150	93
The second of th	20	150	70
	24	125	47
	8	150	82
	12	150	68
28	16	150	54
	20	150	41
	24	107	27
	8	150	62
	12	150	52
30	16	150	41
1	20	140	31
	24	93	-
	8	150	-
-	12	150	
36	16	150	-
_	20	125	
	24	83	
•	8	150	
.	12	150	<u>-</u>
42	16	142	
L	20	107	-
	24	71	-
48	8	150	
	12	150	
	16	125	
	20	93	
	24	62	
54	8	150	-
	12	138	-
	16	111	-
	20	83	_
	24	55	_
	8	150	-
	12	125	_
	16	100	_
	20	75	_
	24	50	_

	MATERIAL LIST			
NC	DESCRIPTION	NOTES/SPECIFICATIONS		
	PARTS/EXTRUSIONS			
1A	STANDARD HEADER & SILL JAMB	6063-T5 ALUMINUM		
1B	OPTIONAL SLOPED SILL	6063-T5 ALUMINUM		
1C	OPTIONAL 1-PIECE HEADER	6063-T5 ALUMINUM		
2	PARTIAL BLADE & HEAD	6063-T5 ALUMINUM		
3	SIDE JAMB	6063-T5 ALUMINUM		
4	LOUVER BLADE	6063-T5 ALUMINUM		
5	BLADE SUPPORT BRACKET (2 1/2" LONG)	6063-T5 ALUMINUM		
6	MULLION CAP	6063-T5 ALUMINUM; FULL LENGTH OF MULLION JAMBS		
7	SILL ANGLE	6063-T5 ALUMINUM; FULL WIDTH OF PANEL		
8	L2X2X1/4 JAMB CONNECTION ANGLE 2" LONG	6063-T5 ALUMINUM; WITHIN 4" OF JAMB ENDS & SPACED PER LOAD TABLE ON SHT. 2		
9	L2X2X1/4 OPTIONAL JAMB CONNECTION ANGLE 2" LONG	A36 STEEL; WITHIN 4" OF JAMB ENDS & SPACED PER LOAD TABLE ON SHT. 2		
10	L2X2X1/4 CONTINUOUS MULLION CONNECTION ANGLE	6063-T5 ALUMINUM; FULL LENGTH OF CHANNEL MULLION		
11	L4X3X3/8 MULLION END CONNECTION ANGLE 2 3/4" LONG	A36 STEEL; 2 PER MULLION END		
12	C5X6.7 MULLION	A36 STEEL; FULL HEIGHT OF PANELS		
13	PARTIAL BLADE REINFORCEMENT PLATE (2 1/2" LONG)	6063-T5 ALUMINUM		
14	PARTIAL BLADE REINFORCEMENT ANGLE (2 1/2" LONG)	6063-T5 ALUMINUM		
15	OPEN			
FASTENERS				
16		WITH FLAT WASHERS, LOCK WASHER & NUT; 2 PER MULLION END		
17	NO. 14 S.S. SMS SCREWS	3 PER MULLION END CLIP WITH MIN. 1 1/2" WOOD EMBED		
18	5/8" X 2 1/4" SLEEVE ANCHOR WITH FLAT WASHER	USA KINGPIN ANCHOR; 1 PER CHANNEL END CONNECTION ANGLE INTO CONCRETE ONLY		
19		WITH FLAT WASHERS, LOCK WASHER & NUT; 1 PER CHANNEL END CONNECTION ANGLE INTO STEEL FRAME		
20		WITH FLAT WASHER, LOCK WASHER & NUT; WITHIN 4" OF MULLION ENDS & MAX. 8" O.C.		
21	NO. 8 X 3/4" SMS SCREW	1 AT EACH LOUVER BLADE SUPPORT BRACKET AT ARCHITECTURAL MAIN MULLIONS & ALL MID-SPAN MULLIONS		
22	NO. 14 X 1 1/4" HILTI TEK SCREW	WITHIN 3/4" OF MULLION ENDS & MAX. 4" O.C. INTO FRAME		
23	NO. 14 X 1" SMS SCREW NO. 7 X 1" SMS SCREW	1 AT EACH LOUVER BLADE AT ALL ARCHITECTURAL MAIN MULLIONS & ALL MID-SPAN MULLIONS 2 PER EACH LOUVER BLADE END THROUGH JAMB & INTO BLADE SPLINES		
24				
25	NO. 14 X 1 1/4" HILTI TEK SCREW 1/2" X 2" LAG SCREW WITH FLAT WASHER	2 PER EACH HEAD, SILL & SIDE JAMB CONNECTION ANGLE 1 PER EACH HEAD, SILL & SIDE JAMB CONNECTION ANGLE INTO WOOD FRAME		
26	5/8" X 2 1/4" SLEEVE ANCHOR WITH FLAT WASHER	USA KINGPIN ANCHOR; 1 PER EACH HEAD, SILL & SIDE JAMB CONNECTION ANGLE INTO CONCRETE ONLY		
-		WITH FLAT WASHERS, LOCK WASHER & NUT; 1 PER EA. JAMB CONNECTION ANGLE INTO CONCRETE ONE!		
28	3/8" X 1 7/8" SLEEVE ANCHOR WITH FLAT WASHER	RED HEAD DYNABOLT WITH MIN 1 1/2" BLOCK/CONCRETE EMBED (1 PER FRAME SUPPORT CLIP)		
30	NO. 8 X 1/2" SMS SCREW	WITHIN 2" OF MULLION ENDS & MAX. 12" O.C. (MULLION CAP TO MULLION)		
31	NO. 7 X 1" SMS SCREWS	2 PER FRAME CORNER THROUGH SILL/HEAD FRAME & INTO JAMB SPLINES		
	INO. / A F JING JUNETIO	2 TEN TIMBLE CONNENT THROUGH SIELYTHEAD THAME & HATO WAND STEINES		

PRESSURE TABLE NOTES:

- 1. WHEN THE PANEL WIDTH IS 30" OR LESS, NO MID SPAN MULLION IS REQUIRED PROVIDING COMPLIANCE WITH THE TABLE.
- 2. ALL PRESSURES IN THIS TABLE ARE FOR BOTH POSITIVE & NEGATIVE WIND PRESSURE.



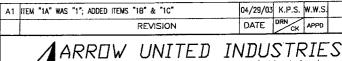
PRODUCT RENEWED as complying with the Florida Building Code Acceptance No 08-0423.03 Expiration Date 07/27/2009

Mismi Dade Product Control

Division

WARREN W. SCHAEFER, P.E.
STRUCTURAL ENGINEER
P.E. No. 44135

W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. STRUCTURAL CONSULTING ENGINEERS 8895 N. MILITARY TRAIL; SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902



ARRUW UNITED INDUSTRIES

A Division of Mestek, Inc.

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PHONE 570-746-1888; FAX 570-746-9286

FA-22 TFST LOUVER

EA-22 TEST LOUVER
ARCHITECTURAL & NON-ARCHITECTURAL LOUVER
MATERIAL LIST & LOAD TABLE

CKD.BY . APPD.BY W.W.S. SHEET: 7 of 7 DRN.BY W.W.S. DATE 06-16-00 DWG. NO. 35972-4 B