



**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**

NOTICE OF ACCEPTANCE (NOA)

**Arrow United Industries
314 Riverside Drive
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 High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Architectural & Non-Architectural Louver System.

APPROVAL DOCUMENT: Drawing No.35972-4, titled "EA-22 Test Louver Architectural & Non-Architectural Louver" dated 06/16/00 with last revision on 04/29/03, prepared by W.W. Schaefer Engineering & Consulting, PA, signed and sealed by W. W. Schaefer P.E., bearing the Miami-Dade County Product Control Revision stamp with the NOA 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.

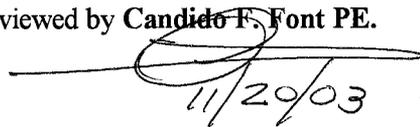
TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this 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 # 03-0210.03 consists of this page, evidence page as well as approval document mentioned above.

The submitted documentation was reviewed by **Candido F. Font PE.**


11/29/03



**NOA No: 03-0514.13
Expiration Date: July 27, 2008
Approval Date: November 20, 2003
Page 1**

NOTICE OF ACCEPTANCE: EVIDENCE PAGE

A. DRAWINGS.

1. Drawing prepared by United Arrow Industries titled "EA-22 Test Louver Architectural & Non-Architectural Louver," Drawing No. 35972-4, dated 06/16/00 with last revision on 04/29/03. signed and sealed by W. W. Schaefer, PE.

B. TESTS.

1. Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test of "AUI EA-22 Architectural & Non-Architectural Fixed Louver", prepared by Hurricane Test Laboratory, Inc., report No. 0199-0518-99, dated 05/26/99 to 06/11/99, signed and sealed by V. J. Abraham, PE
2. Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test of "AUI EA-22 Architectural & Non-Architectural Fixed Louver", prepared by Hurricane Test Laboratory, Inc, report No. 0199-0615-99, dated 06/24/99, signed and sealed by V. J. Abraham, PE.

C. CALCULATIONS.

1. Allowable Load Calculations, dated 11/12/99, pages 1 to 3 of 3, prepared by W. W. Schaefer Engineering & Consulting, PA., signed and sealed by W. W. Schaefer. PE.
2. Allowable Load Calculations, dated 04/14/00, pages 1 to 6 of 6, prepared by W. W. Schaefer Engineering & Consulting, PA signed and sealed by W. W. Schaefer. PE.

D QUALITY ASSURANCE

1. Miami-Dade Product Control Division.

E. MATERIAL CERTIFICATIONS.

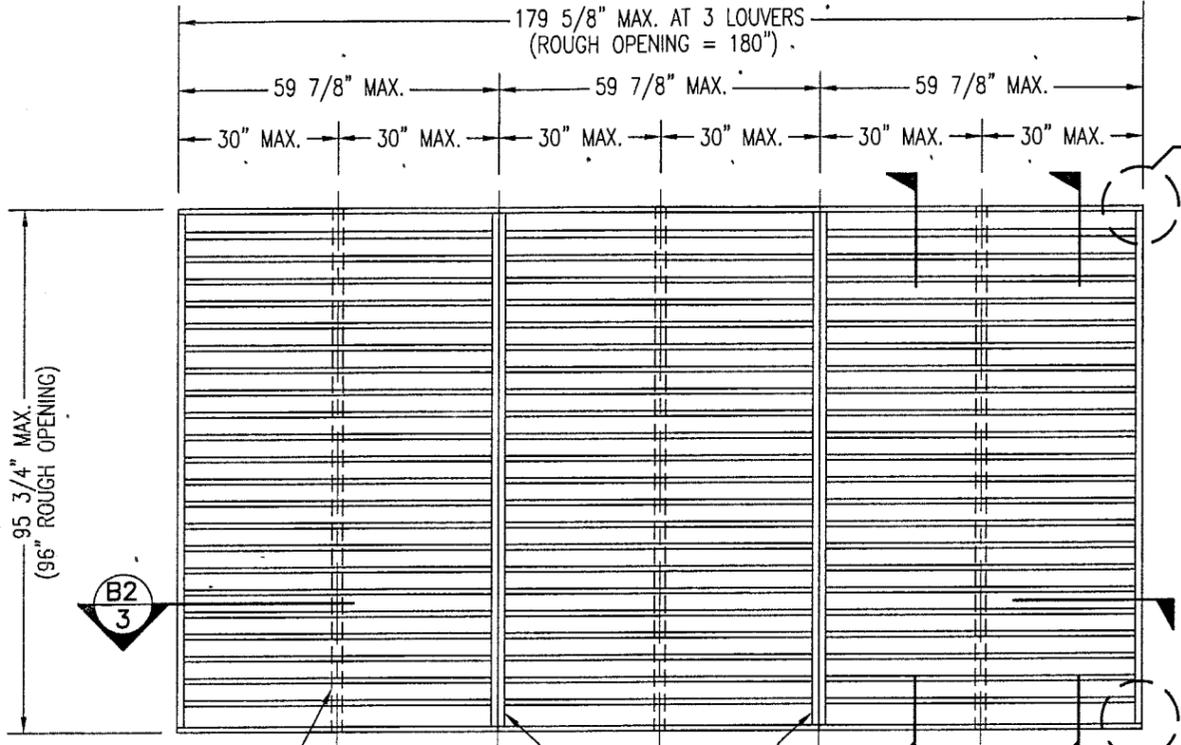
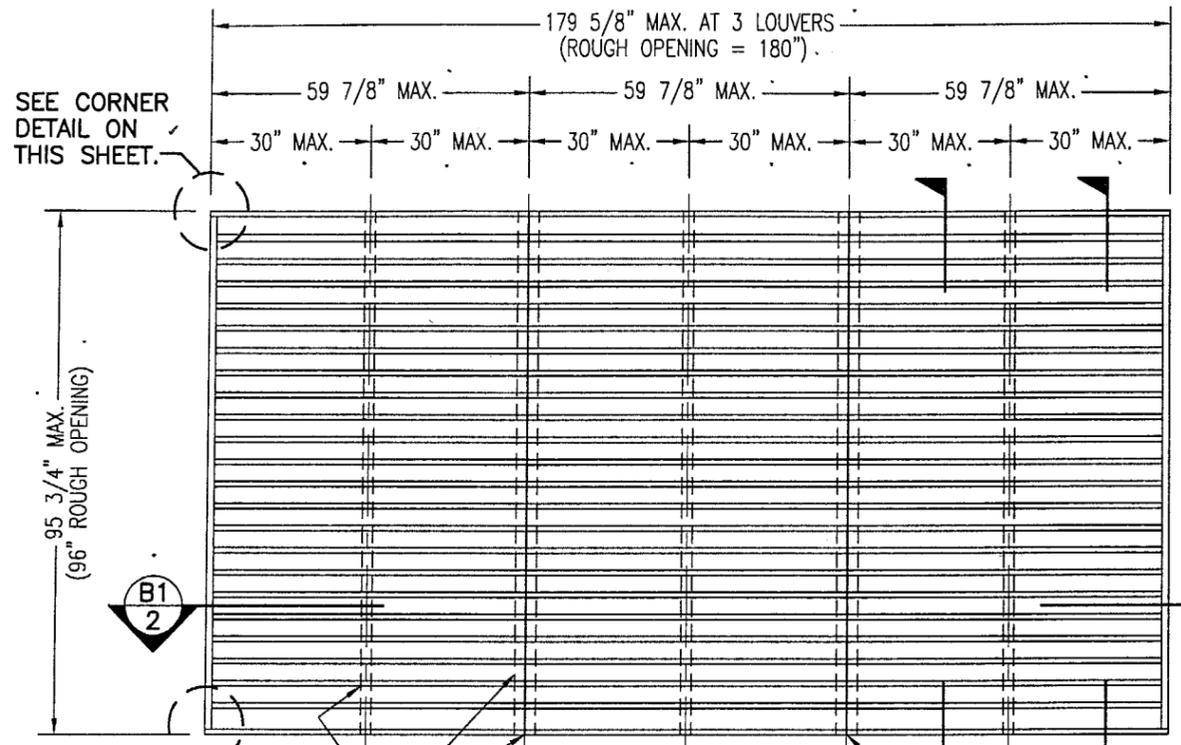
1. Tensile Test report on 4 inch louver, prepared by Q. C. Metallurgical, Inc., No. 9LM-2586, dated 12/27/99, signed and sealed by F. Grate, PE.
2. Arrow die drawings 11-2315 & 11-2313 issued on August 2002.

F STATEMENTS

1. Test compliance letter issued by Hurricane Test Laboratory, Inc. on 12/08/99, signed and sealed by V. J. Abraham, PE.
2. Code compliance letter issued by W. W. Schaefer Engineering & Consulting, PA. On 11/15/99, signed and sealed by W. W. Schaefer, PE.
3. No interest letter issued by W. W. Schaefer Engineering & Consulting, P.A. on 11/15/99, signed and sealed by W. W. Schaefer, PE.
4. No change letter issued by Arrow United Industries on 02/04/03 and signed by V. Kreglewicz.


11/20/03

Candido F. Font PE.
Sr. Product Control Examiner
NOA No 03-0514.13
Expiration Date: July 27, 2008
Approval: Date: November 20, 2003



EXTERIOR ELEVATION
ARCHITECTURAL 4" LOUVER

EXTERIOR ELEVATION
NON-ARCHITECTURAL 4" LOUVER

SCALE: 3/8"=1'-0"

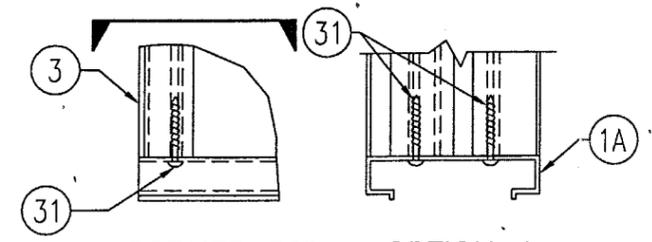
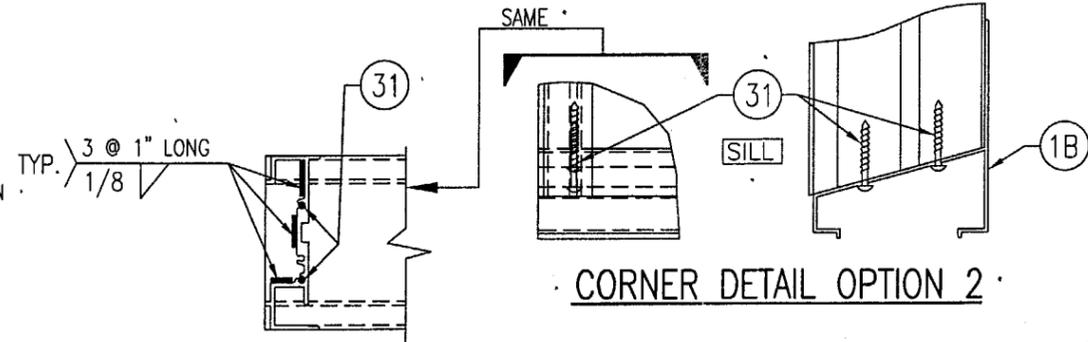
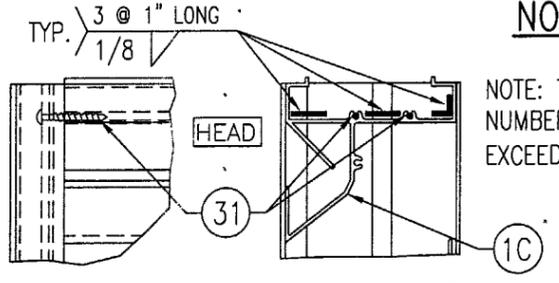
SCALE: 3/8"=1'-0"

NOTE: THIS LOUVER SYSTEM MAY CONSIST OF AN UNLIMITED NUMBER OF SECTIONS PROVIDING EACH SECTION DOES NOT EXCEED 59 7/8" X 95 3/4" IN SIZE.

NOTE: THIS LOUVER SYSTEM MAY CONSIST OF AN UNLIMITED NUMBER OF SECTIONS PROVIDING EACH SECTION DOES NOT EXCEED 59 7/8" X 95 3/4" IN SIZE.

GENERAL NOTES:

1. MAXIMUM ALLOWABLE INDIVIDUAL PANEL SIZE = 59 7/8" X 95 3/4"
2. MAXIMUM ASSEMBLY SIZE = UNLIMITED WIDTH, UP TO 95 3/4" HEIGHT.
3. ASSEMBLIES/SECTIONS MAY BE STACKED VERTICALLY PROVIDING A STRUCTURAL SUPPORT IS DESIGNED AND INSTALLED BY OTHERS TO SUPPORT ALL LOADS TRANSFERRED FROM THE LOUVER ASSEMBLY.
4. MAXIMUM UNSUPPORTED BLADE LENGTH SHALL NOT EXCEED 30".
5. ALL FASTENERS SHALL BE PLATED STEEL OR 304 STAINLESS STEEL.
6. SEPARATION OF DISSIMILAR MATERIALS MUST BE MAINTAINED PER SECTION 2003.8.4 OF THE FLORIDA BUILDING CODE (FBC).
7. APPROVED TYPES OF OPENINGS: 3000 PSI CONCRETE/MASONRY, WOOD OR STEEL. SEE SHEETS 4 & 5 FOR ANCHORING DETAILS.
8. THESE LOUVER SYSTEMS HAVE BEEN TESTED, ANALYZED AND APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE LOAD TABLE ON SHEET 7.
9. THIS SYSTEM HAS NOT BEEN TESTED FOR WATER INFILTRATION RESISTANCE AND IS NOT A WATER RESISTANT SYSTEM.
10. BUCKING, OPENINGS & BUCKING FASTENERS MUST BE DESIGNED & INSTALLED TO WITHSTAND WIND LOADS AS DETERMINED FOR EACH APPLICATION.
11. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & MAY NOT VARY UNLESS SPECIFICALLY MENTIONED ON THESE DRAWINGS.
12. THE DETAILS & SPECIFICATIONS HERE-IN REPRESENT THE PRODUCTS PROPOSED FOR IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR BOTH IMPACT & NON-IMPACT LOUVERS.
13. THESE LOUVER SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (FBC).
14. THIS PRODUCT HAS BEEN TESTED IN ACCORDANCE WITH FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT, STRUCTURAL & CYCLIC TESTING.
15. THESE LOUVERS ARE TO BE INSTALLED IN A LOCATION WHERE THE ROOM BEHIND THE LOUVERS IS DESIGNED TO DRAIN WATER PENETRATING INTO THE ROOM AND THE ROOM WILL HOUSE WATER RESISTANT/WATER PROOF EQUIPMENT, COMPONENTS OR SUPPLIES.



CORNER DETAIL OPTION 1
(SILL CORNER SHOWN; HEAD IS MIRRORED IMAGE)

CORNER DETAIL OPTION 2

MAX. ALLOWABLE DESIGN WIND PRESSURE	
POSITIVE	NEGATIVE
150 PSF	150 PSF

NOTE: SEE LOAD TABLE ON SHEET 7 FOR VARIATIONS OF PRESSURES WITH RESPECT TO PANEL WIDTH & CLIP SPACING.

PRODUCT REVISED as complying with the Florida Building Code Amendment No. 03-0514.13 Effective Date 07/27/03
By: [Signature] Product Control Division

SEP 22 2003

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

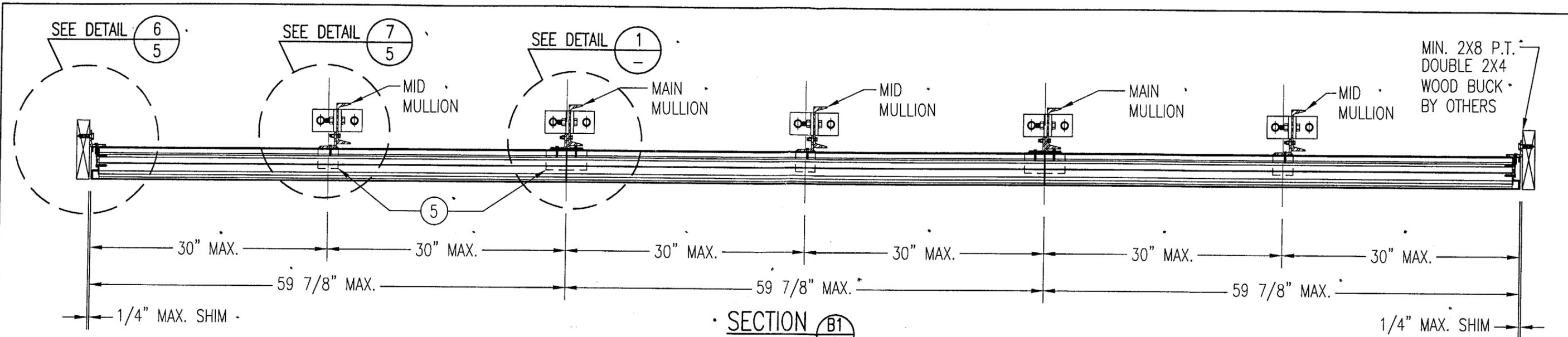
A1	REVISED CORNER DETAIL; ADDED CORNER DETAIL OPTION 2	04/29/03	K.P.S.	W.W.S.
A2	UPDATE GENERAL NOTES 6, 12, 13 & 14	04/29/03	K.P.S.	W.W.S.
REVISION		DATE	DRN	APPD

ARROW UNITED INDUSTRIES
A Division of Mestek, Inc.

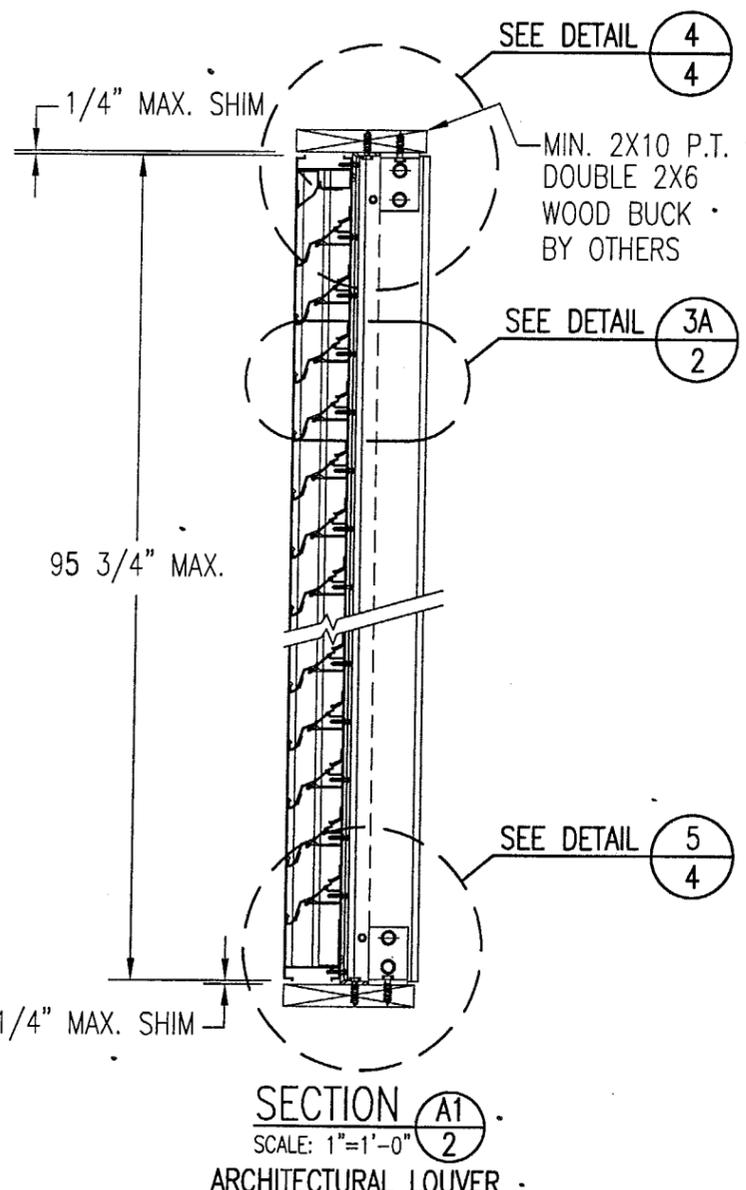
314 RIVERSIDE DRIVE - P.O. BOX 69
WYALUSING, PA 18853
PHONE 570-746-1888; FAX 570-746-9286

EA-22 TEST LOUVER
ARCHITECTURAL & NON-ARCHITECTURAL LOUVER ELEVATIONS & NOTES

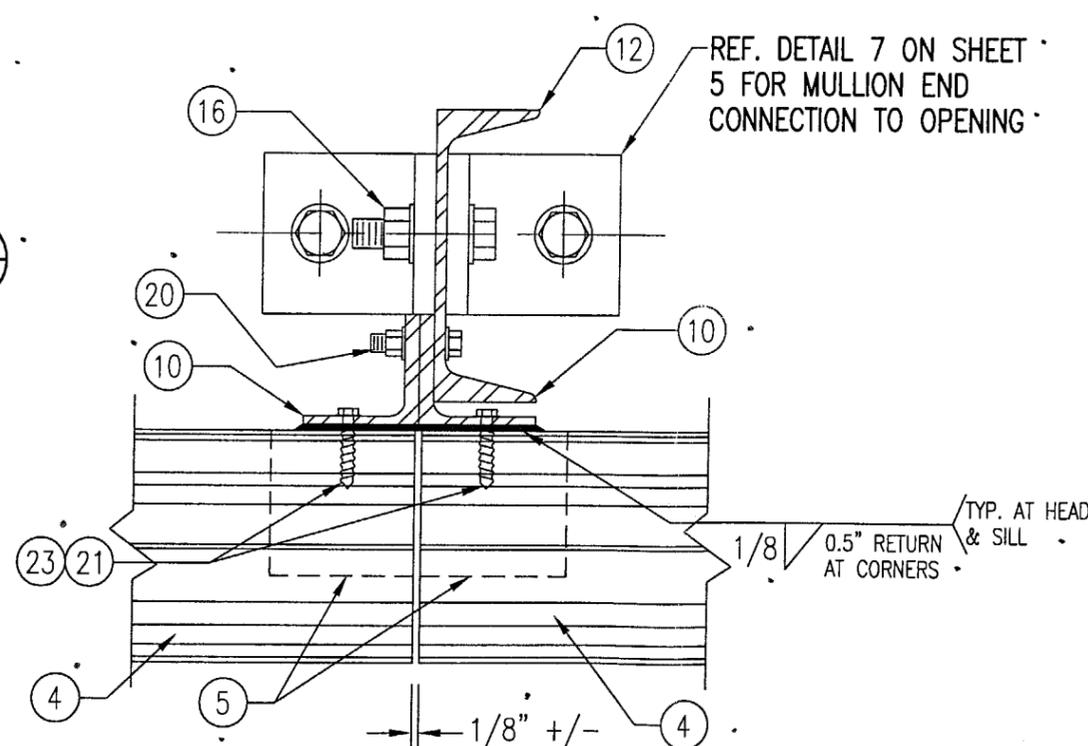
CKD BY	APPD BY	W.W.S.	SHEET: 1 of 7
DRN BY	W.W.S.	DWG. NO.	35972-4
DATE	06-16-00	REV.	A



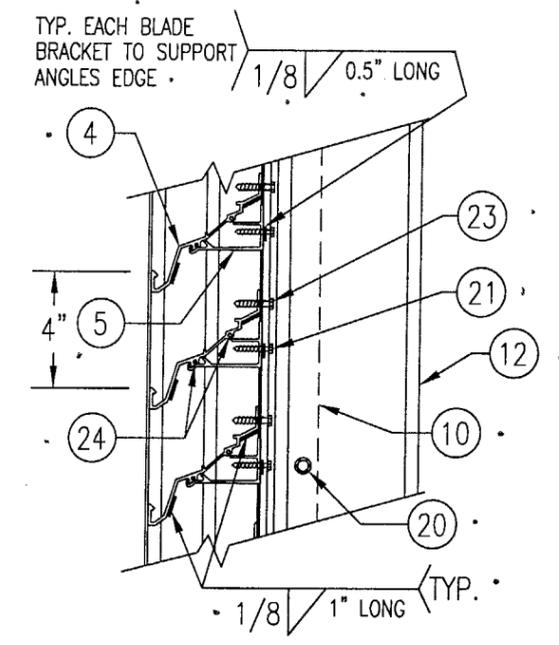
SECTION B1
SCALE: 1"=1'-0"
ARCHITECTURAL LOUVER



SECTION A1
SCALE: 1"=1'-0"
ARCHITECTURAL LOUVER



DETAIL 1
SCALE: 1/3 FULL
ARCHITECTURAL LOUVER

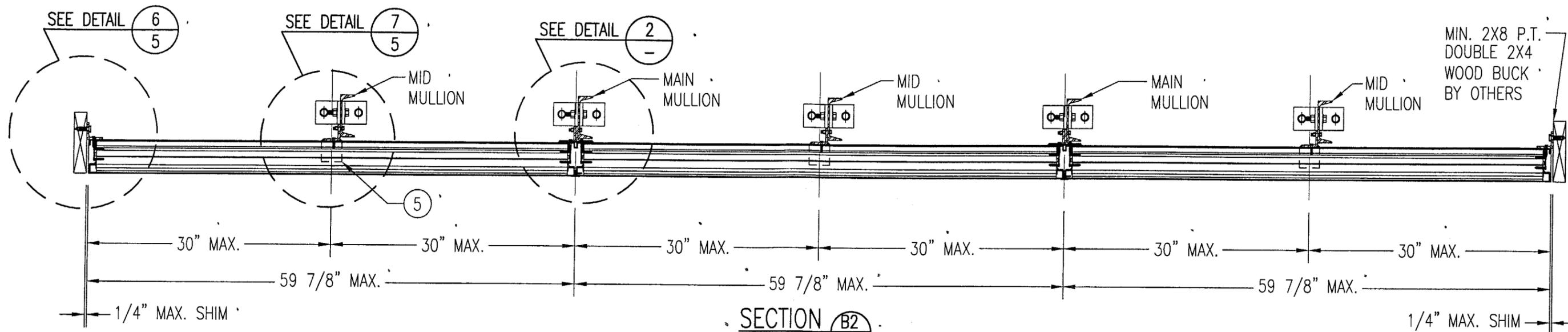


DETAIL 3A
SCALE: 2"=1'-0"
TYP. AT ALL MULLIONS THIS SHEET

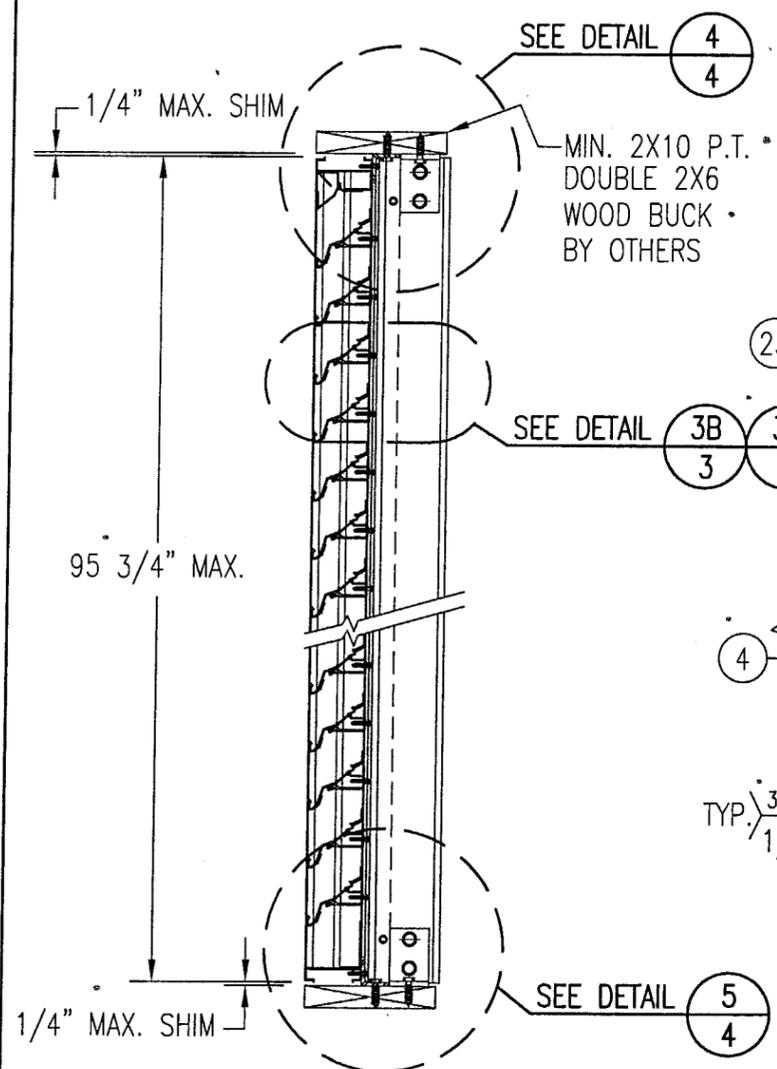
PRODUCT REVISED
as complying with the Florida
Building Code
Approval No. 03-0514.13
Expiration Date 07/27/08
Liberal Data Product Control
Division

SEP 22 2003
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

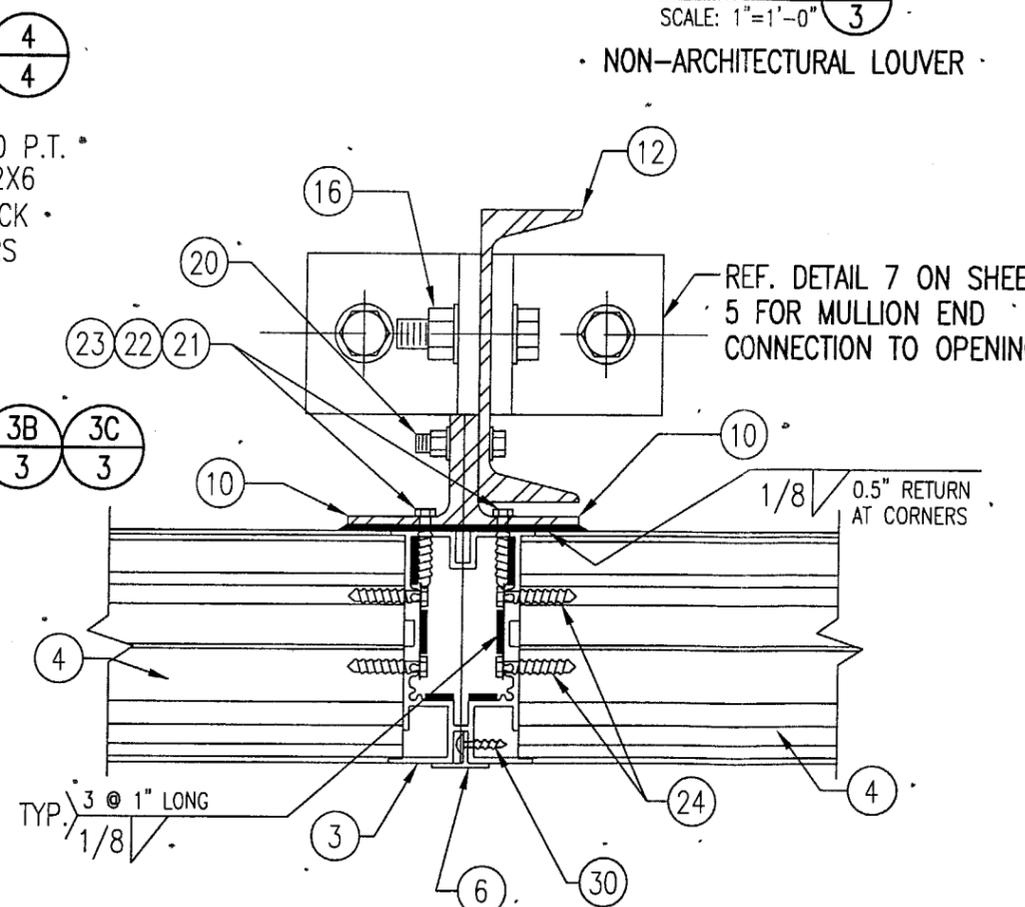
REVISION		DATE	DRN	CK	APPD
 ARROW UNITED INDUSTRIES A Division of Mestek, Inc. 314 RIVERSIDE DRIVE - P.O. BOX 69 WYALUSING, PA 18853 PHONE 570-746-1888; FAX 570-746-9286					
EA-22 TEST LOUVER ARCHITECTURAL LOUVER SECTIONS & DETAILS					
CKD.BY	APPD.BY	W.W.S.	SHEET: 2 of 7		
DRN.BY	W.W.S.	DWG. NO.	35972-4		
DATE	06-16-00	REV.	A		



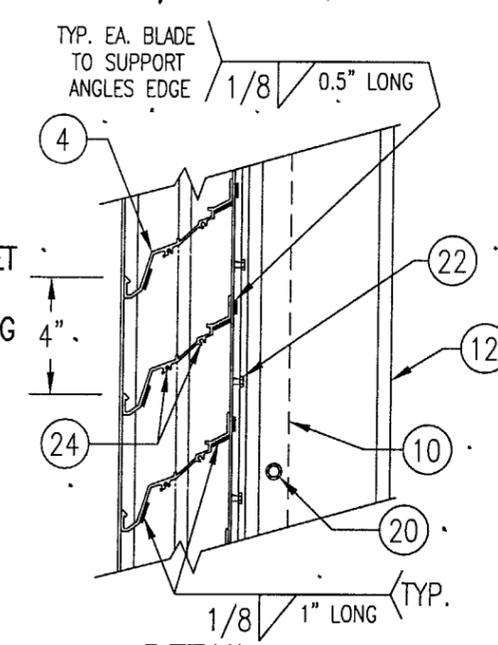
SECTION B2
SCALE: 1"=1'-0"
NON-ARCHITECTURAL LOUVER



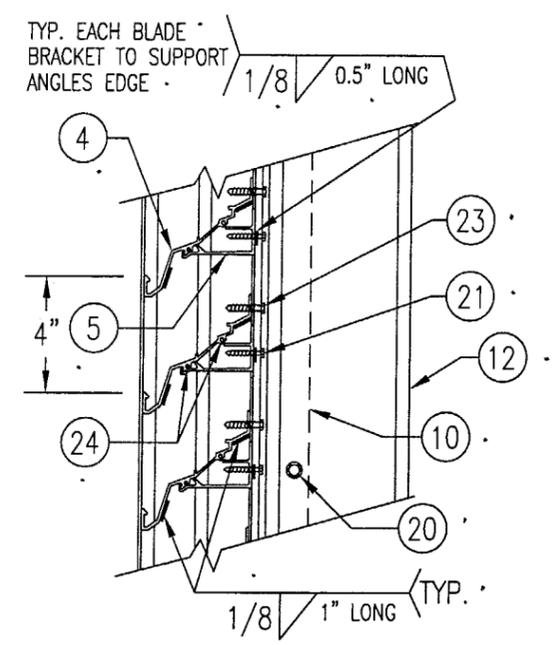
SECTION A2
SCALE: 1"=1'-0"
NON-ARCHITECTURAL LOUVER



DETAIL 2
SCALE: 2"=1'-0"
NON-ARCHITECTURAL LOUVER
NOTE: SIDE JAMBS ARE ADDITIONALLY FASTENED TO THE SILL & HEAD WITH 2 NO. 7 X 1" SMS THROUGH SILL & INTO JAMB SPLINES.



DETAIL 3B
SCALE: 2"=1'-0"
TYP. AT MAIN MULLIONS THIS SHEET

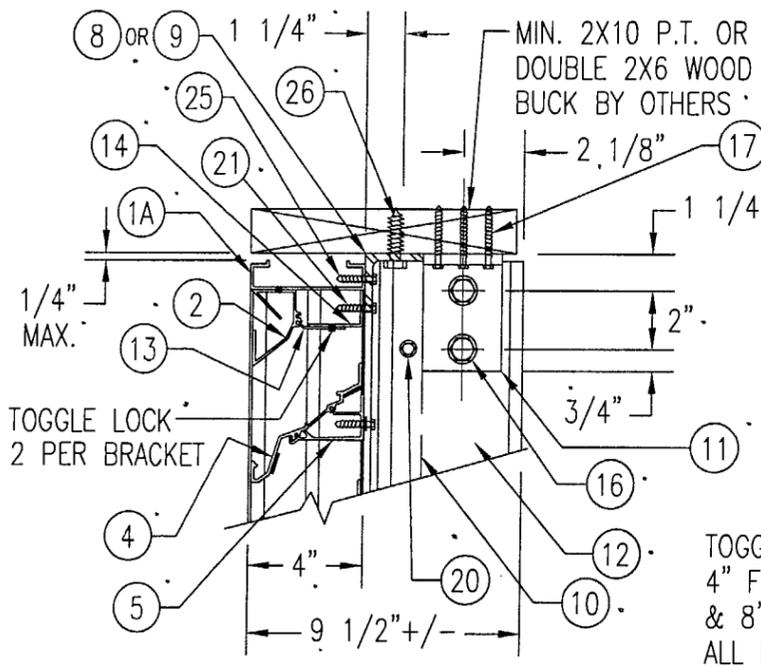


DETAIL 3C
SCALE: 2"=1'-0"
TYP. AT ALL MID-SPAN MULLIONS THIS SHEET

PRODUCT REVISED
03-05-13
07/27/08

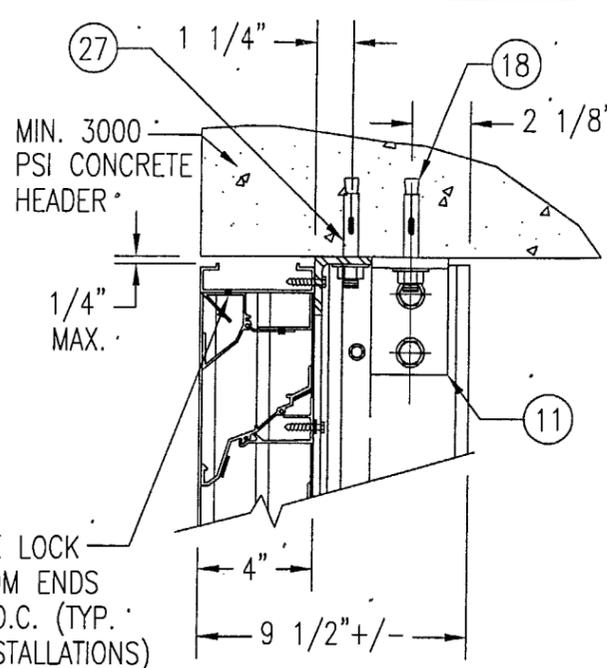
SEP 22 2003
WARREN W. SCHAEFER, P.E.
STRUCTURAL ENGINEER
P.E. No. 44135
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
STRUCTURAL CONSULTING ENGINEERS
8895 N. MILITARY TRAIL, SUITE C-204
PALM BEACH GARDENS, FL 33410
PHONE: 561-775-4902

REVISION	DATE	DRN	CK	APPD
 ARROW UNITED INDUSTRIES A Division of Mestek, Inc. 314 RIVERSIDE DRIVE - P.O. BOX 69 WYALUSING, PA 18853 PHONE 570-746-1888; FAX 570-746-9286				
EA-22 TEST LOUVER NON-ARCHITECTURAL LOUVER SECTIONS & DETAILS				
CKD. BY	APPD. BY	W.W.S.	SHEET: 3 of 7	
DRN. BY	W.W.S.	DWG. NO.	REV.	
DATE	06-16-00	35972-4	A	



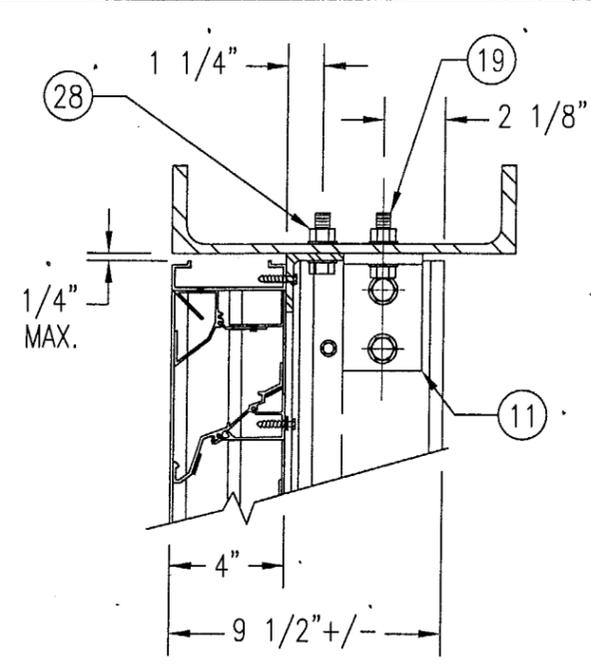
WOOD FRAMED OPENING

SEE "DETAIL 3A & 3B" FOR LOUVER BLADE DETAILS.
 NOTE: STANDARD HEADER (ITEMS #1A & 2) IS SHOWN IN THIS VIEW. 1-PIECE HEADER (ITEM 1C) ALSO APPLIES.



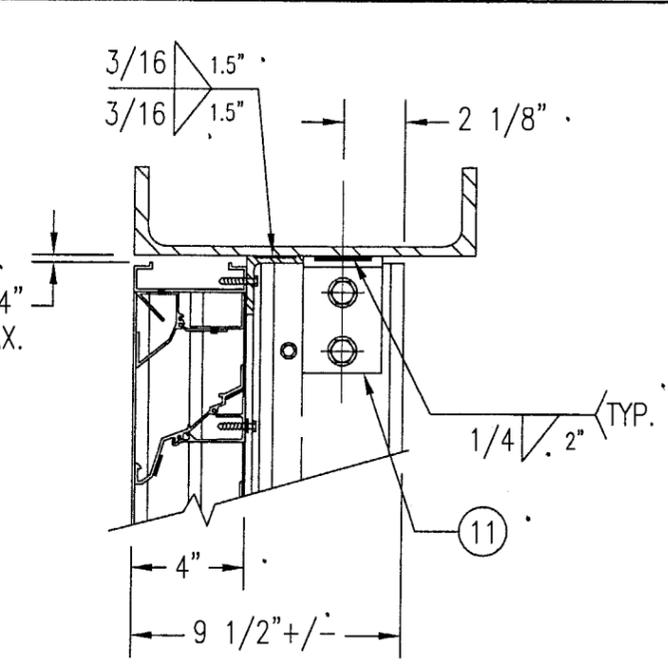
CONCRETE HEAD

SEE "WOOD OPENING" FOR DETAIL NOT SHOWN (MASONRY ACCEPTABLE AT SIDES ONLY) AND MAY NOT BE USED AT HEAD OR SILL.



STEEL FRAME OPENING (BOLTED)

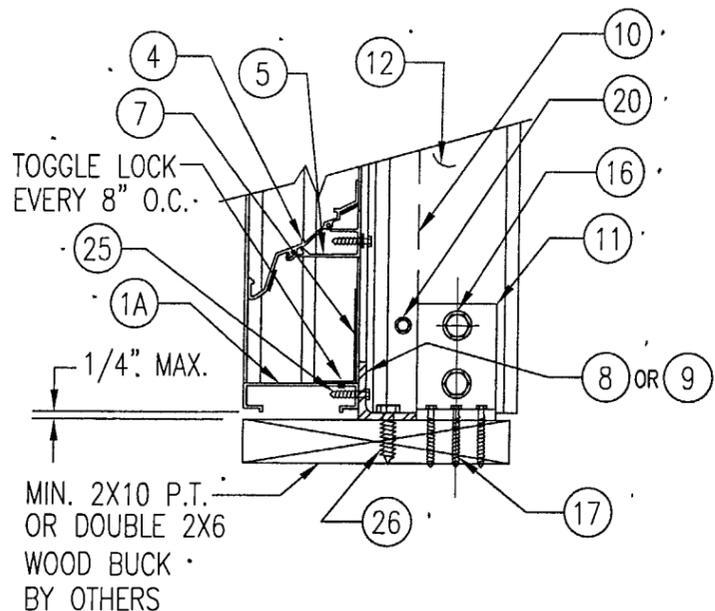
SEE "WOOD OPENING" FOR DETAIL NOT SHOWN.



STEEL FRAME OPENING (WELDED)

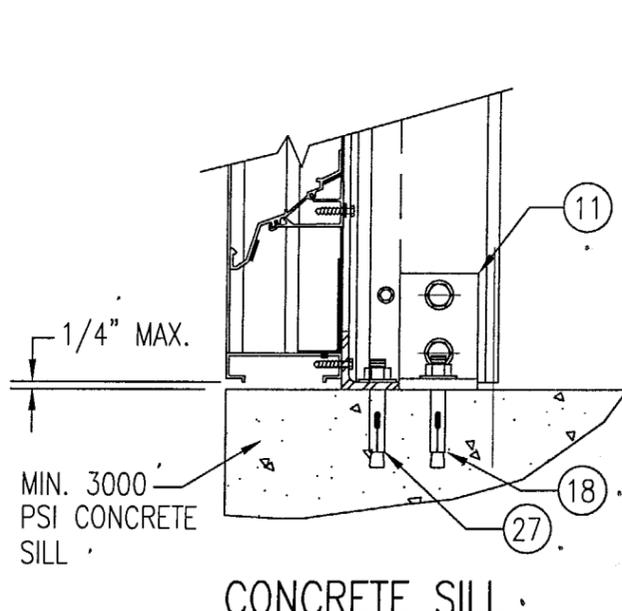
SEE "WOOD OPENING" FOR DETAIL NOT SHOWN.

DETAIL: $\frac{4}{4}$
 SCALE: 2"=1'-0"



WOOD FRAMED OPENING

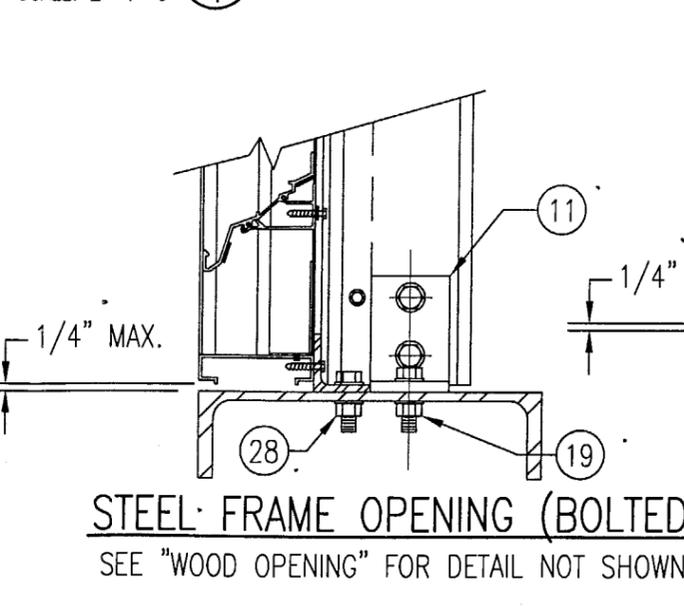
SEE "DETAIL 3A & 3B" FOR LOUVER BLADE DETAILS.
 NOTE: STANDARD SILL (ITEM #1A) IS SHOWN IN THIS VIEW. SLOPED SILL (ITEM 1B) ALSO APPLIES.



CONCRETE SILL

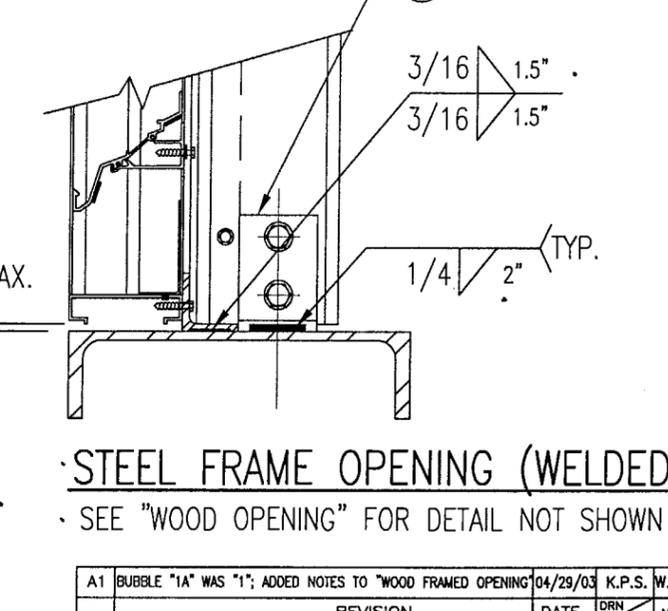
SEE "WOOD OPENING" FOR DETAIL NOT SHOWN (MASONRY ACCEPTABLE AT SIDES ONLY) AND MAY NOT BE USED AT HEAD OR SILL.

DETAIL: $\frac{5}{4}$
 SCALE: 2"=1'-0"



STEEL FRAME OPENING (BOLTED)

SEE "WOOD OPENING" FOR DETAIL NOT SHOWN.



STEEL FRAME OPENING (WELDED)

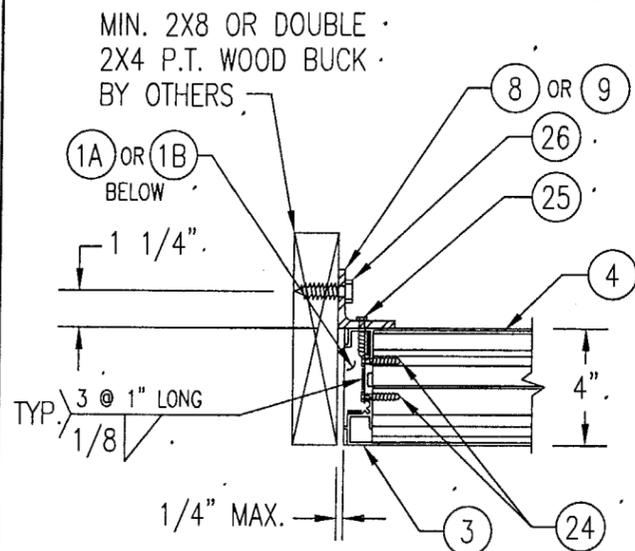
SEE "WOOD OPENING" FOR DETAIL NOT SHOWN.

MASONRY MAY ONLY BE USED AT SIDES OF LOUVER PANELS & MAY NOT BE USED AT THE HEAD OR SILL.

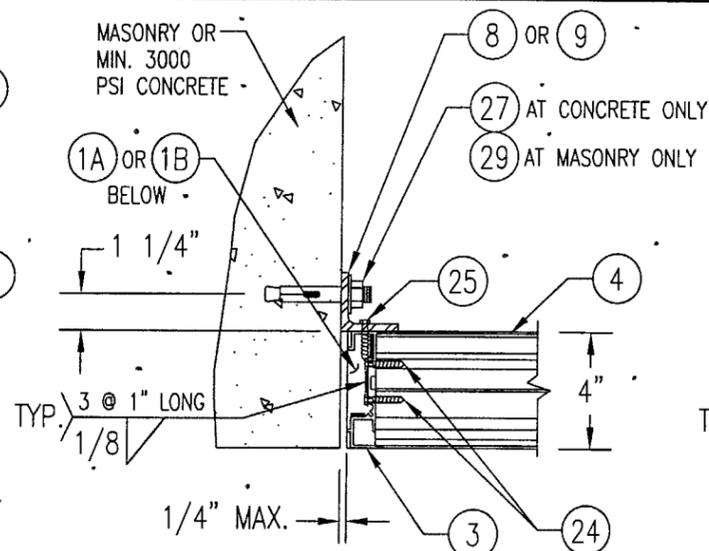
PRODUCT REVIEWED
 as per Florida Building Code
 Approved by
 03-0514-13
 07/27/08
 By
 Division

SEP 22 2003
 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

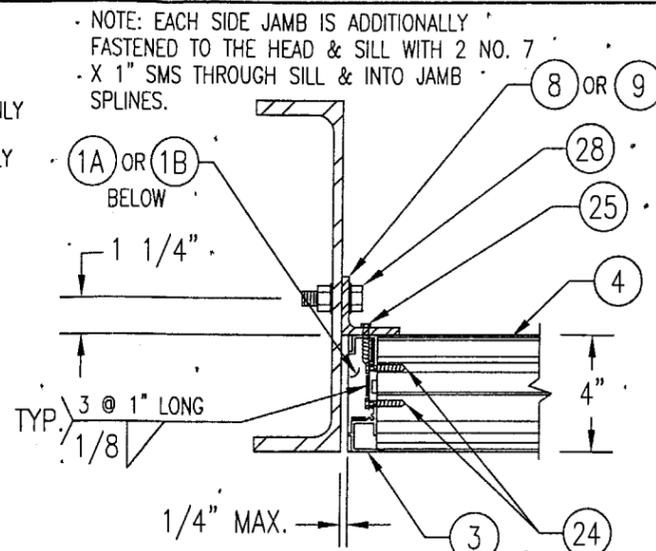
A1	BUBBLE "1A" WAS "1"; ADDED NOTES TO "WOOD FRAMED OPENING"	04/29/03	K.P.S.	W.W.S.
	REVISION	DATE	DRN	APPD
ARROW UNITED INDUSTRIES A Division of Mestek, Inc. 314 RIVERSIDE DRIVE - P.O. BOX 69 WYALUSING, PA 18853 PHONE 570-746-1888; FAX 570-746-9286				
EA-22 TEST LOUVER ARCHITECTURAL & NON-ARCHITECTURAL LOUVER DETAILS				
CKD.BY	APPD.BY	W.W.S.	SHEET: 4 of 7	
DRN.BY	W.W.S.	DWG. NO.	REV.	
DATE	06-16-00	35972-4	A	



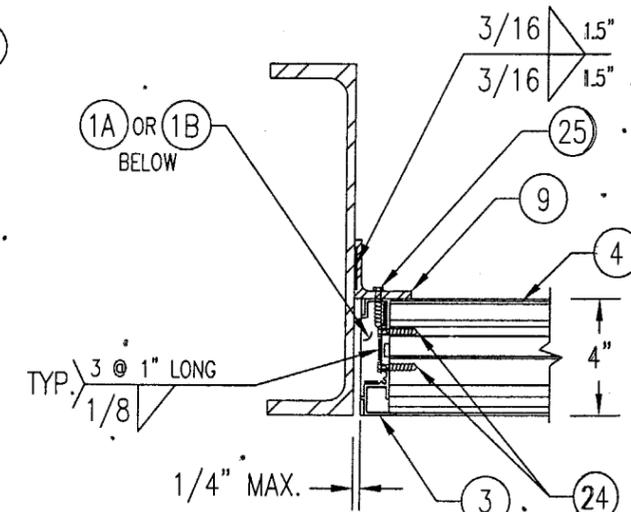
WOOD FRAMED OPENING



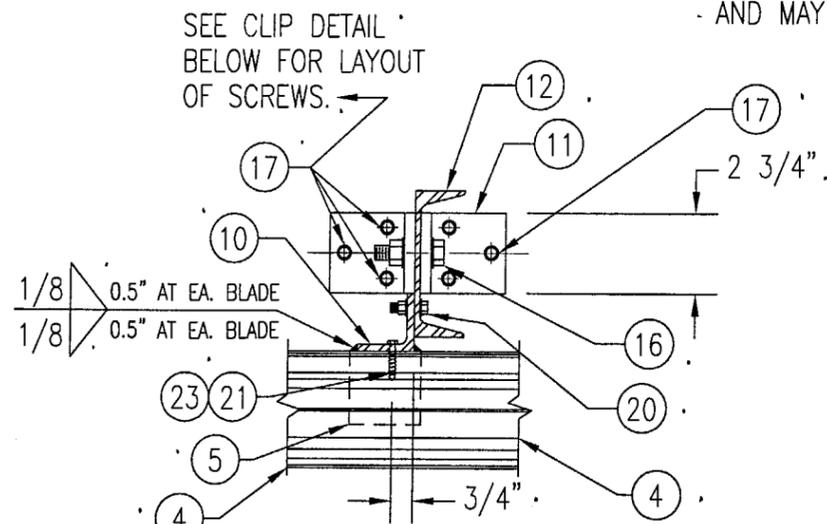
CONCRETE/MASONRY OPENING



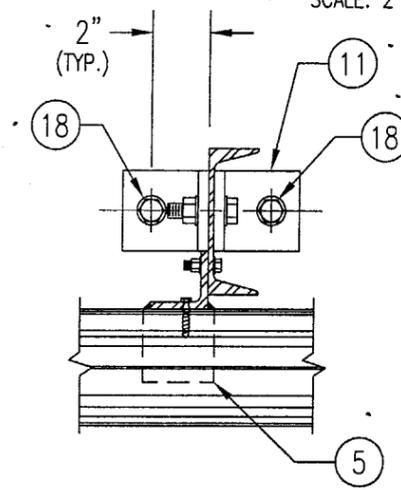
STEEL FRAME OPENING (BOLTED)



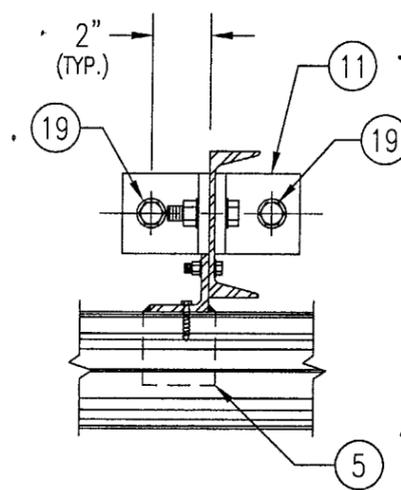
STEEL FRAME OPENING (WELDED)



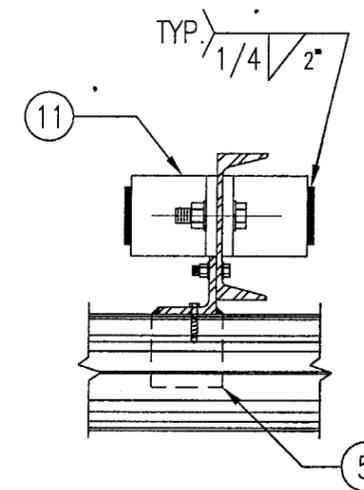
WOOD FRAMED OPENING



CONCRETE SILL & HEAD



STEEL FRAME OPENING (BOLTED)



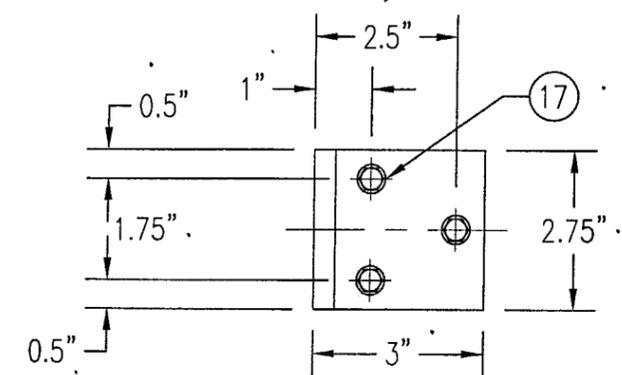
STEEL FRAME OPENING (WELDED)

SEE "WOOD OPENING" FOR DETAIL NOT SHOWN.
(MASONRY ACCEPTABLE AT SIDES ONLY AND MAY NOT BE USED AT HEAD OR SILL)

DETAIL 6/5
SCALE: 2"=1'-0"

DETAIL 7/5
SCALE: 2"=1'-0"

MASONRY MAY ONLY BE USED AT SIDES OF LOUVER PANELS & MAY NOT BE USED AT THE HEAD OR SILL.

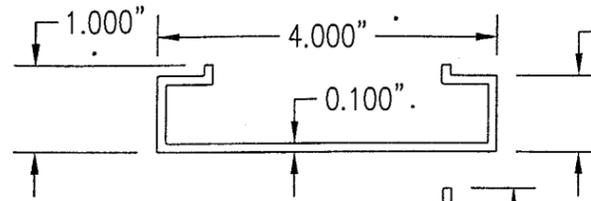


MULLION CLIP DETAIL @ WOOD INSTALLATION

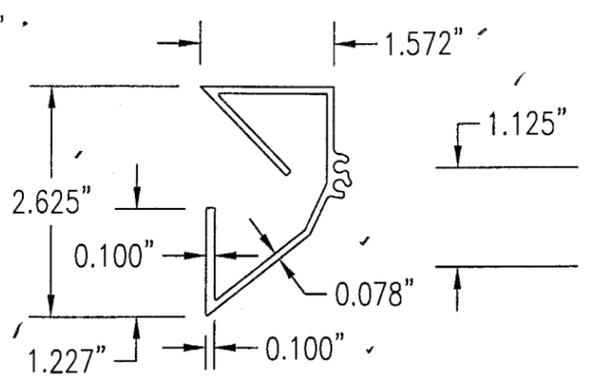
PRODUCT REVISED to comply with the Florida Building Code Acceptance No. 03-0514.13 Inspection Date 07/27/01 By [Signature] Division

SEP 22 2003
WARREN W. SCHAEFER, P.E.
STRUCTURAL ENGINEER
P.E. No. 44135
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
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PHONE: 561-775-4902

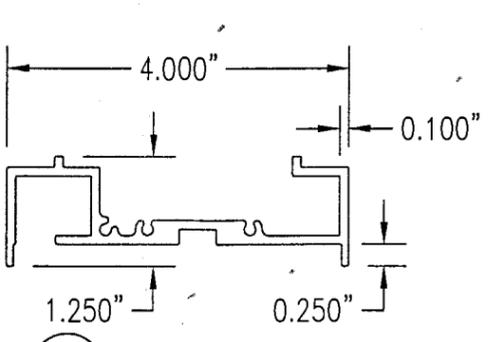
A1	BUBBLE "1A" WAS "1"	04/29/03	K.P.S.	W.W.S.
	REVISION	DATE	DRN	APPD
ARROW UNITED INDUSTRIES A Division of Mestek, Inc. 314 RIVERSIDE DRIVE - P.O. BOX 69 WYALUSING, PA 18853 PHONE 570-746-1888; FAX 570-746-9286				
EA-22 TEST LOUVER ARCHITECTURAL & NON-ARCHITECTURAL LOUVER DETAILS				
CKD.BY	APPD.BY W.W.S.	SHEET: 5 of 7		
DRN.BY W.W.S.	DWG. NO.	REV.		
DATE 06-16-00	35972-4	A		



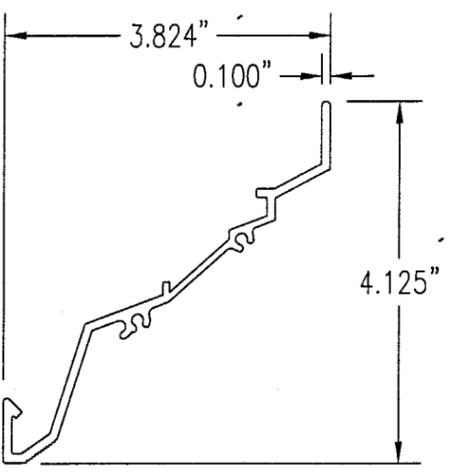
1A STANDARD HEADER & SILL JAMB
6063-T5 ALUMINUM
SCALE: 1/2 FULL



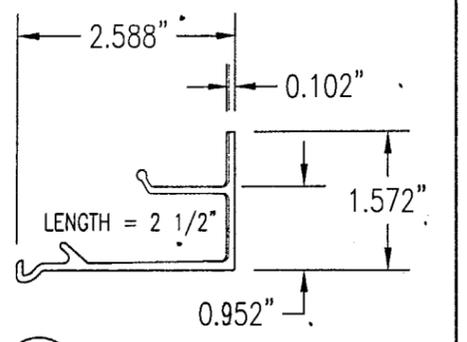
2 PARTIAL BLADE
6063-T5 ALUMINUM
SCALE: 1/2 FULL



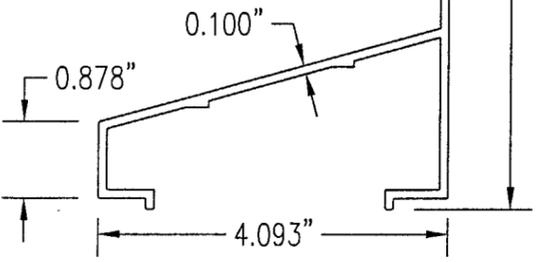
3 SIDE JAMB
6063-T5 ALUMINUM
SCALE: 1/2 FULL



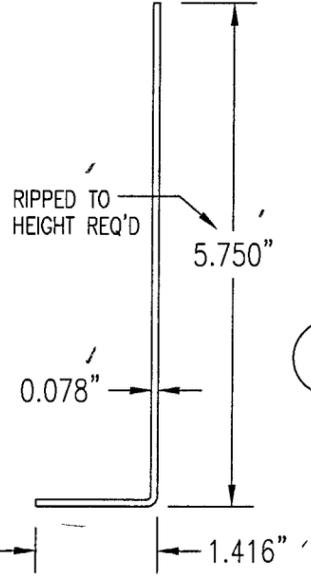
4 LOUVER BLADE
6063-T5 ALUMINUM
SCALE: 1/2 FULL



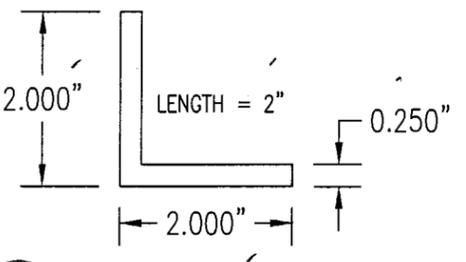
5 BLADE BRACE
6063-T5 ALUMINUM
SCALE: 1/2 FULL



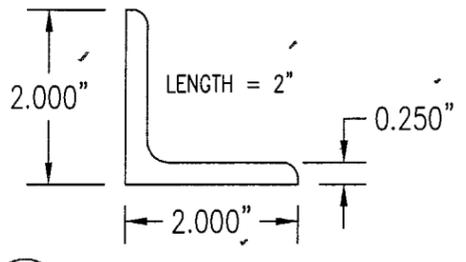
1B OPTIONAL SLOPED SILL
6063-T5 ALUMINUM
SCALE: 1/2 FULL



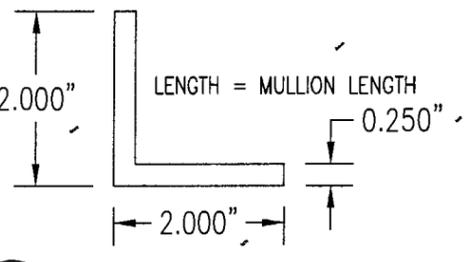
7 SILL ANGLE
6063-T5 ALUMINUM
SCALE: 1/2 FULL



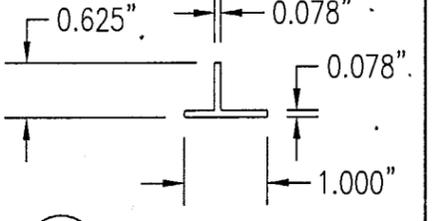
8 CONNECTION ANGLE
6063-T5 ALUMINUM
SCALE: 1/2 FULL



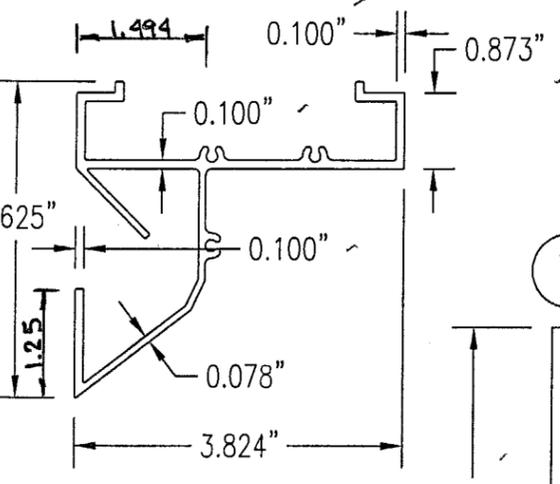
9 CONNECTION ANGLE
A36 STEEL
SCALE: 1/2 FULL



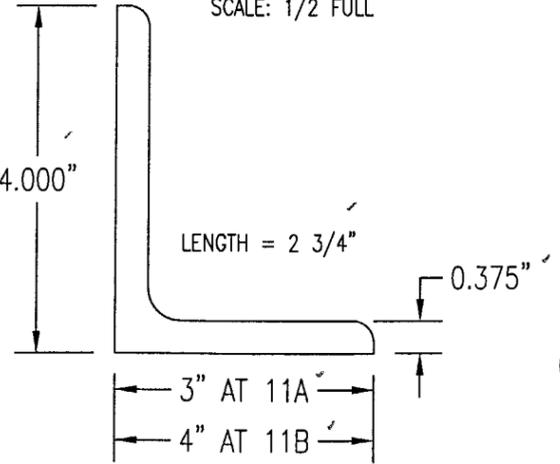
10 MULLION ANGLE
6063-T5 ALUMINUM
SCALE: 1/2 FULL



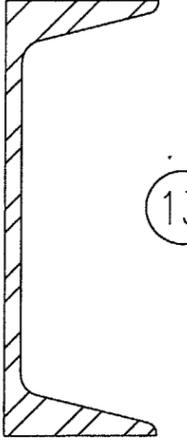
6 MULLION CAP
6063-T5 ALUMINUM
SCALE: 1/2 FULL



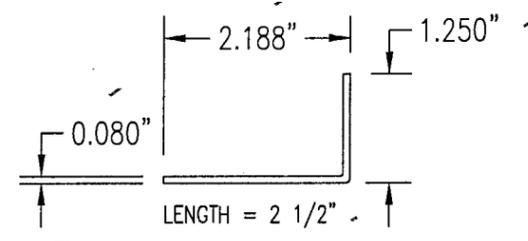
1C OPTIONAL 1-PIECE HEADER
6063-T5 ALUMINUM
SCALE: 1/2 FULL



12 C5X6.7 MULLION
A36 STEEL
SCALE: 1/2 FULL



13 PARTIAL BLADE REINFORCEMENT PLATE
6063-T5 ALUMINUM
SCALE: 1/2 FULL



14 PARTIAL BLADE REINFORCEMENT ANGLE
6063-T5 ALUMINUM
SCALE: 1/2 FULL

11A 11B MULLION END CONNECTION ANGLE
A36 STEEL
SCALE: 1/2 FULL

PRODUCT REVISED
Drawing with the Florida
03-051413
07/27/08
Mistral Blade 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

A1	ITEM "1A" WAS "1"; ADDED ITEMS "1B" & "1C"	04/29/03	K.P.S.	W.W.S.
	REVISION	DATE	DRN	APPD
			CK	
ARROW UNITED INDUSTRIES A Division of Mestek, Inc.				
314 RIVERSIDE DRIVE - P.O. BOX 69 WYALUSING, PA 18853 PHONE 570-746-1888; FAX 570-746-9286				
EA-22 TEST LOUVER ARCHITECTURAL & NON-ARCHITECTURAL LOUVER PARTS & EXTRUSIONS				
CKD.BY	APPD.BY	W.W.S.	SHEET: 6 of 7	
DRN.BY	W.W.S.	DWG. NO.	REV.	
DATE	06-16-00	35972-4	A	

ALLOWABLE WIND PRESSURE VS. JAMB CLIP SPACING AND PANEL WIDTH			
PANEL WIDTH (INCHES)	CLIP SPACING (INCHES)	ALLOWABLE PRESSURE WITH MID SPAN MULLION (PSF)	ALLOWABLE PRESSURE WITHOUT MID SPAN MULLION (PSF)
16	8	150	150
	12	150	150
	16	150	140
	20	150	105
	24	150	70
20	8	150	150
	12	150	140
	16	150	112
	20	150	84
	24	150	56
24	8	150	140
	12	150	117
	16	150	93
	20	150	70
	24	125	47
28	8	150	82
	12	150	68
	16	150	54
	20	150	41
	24	107	27
30	8	150	62
	12	150	52
	16	150	41
	20	140	31
	24	93	-
36	8	150	-
	12	150	-
	16	150	-
	20	125	-
	24	83	-
42	8	150	-
	12	150	-
	16	142	-
	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	-
60	8	150	-
	12	125	-
	16	100	-
	20	75	-
	24	50	-

MATERIAL LIST		
NO.	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	1/2" X 2" A307 HEX HEAD PLATED STEEL OR S/STL BOLT	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	1/2" X 2" A307 HEX HEAD PLATED STEEL OR S/STL BOLT	WITH FLAT WASHERS, LOCK WASHER & NUT; 1 PER CHANNEL END CONNECTION ANGLE INTO STEEL FRAME
20	5/16-18 UNC X 1 1/2" HEX HEAD STEEL OR S/STL BOLT	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	1 AT EACH LOUVER BLADE AT ALL ARCHITECTURAL MAIN MULLIONS & ALL MID-SPAN MULLIONS
24	NO. 7 X 1" SMS SCREW	2 PER EACH LOUVER BLADE END THROUGH JAMB & INTO BLADE SPLINES
25	NO. 14 X 1 1/4" HILTI TEK SCREW	2 PER EACH HEAD, SILL & SIDE JAMB CONNECTION ANGLE
26	1/2" X 2" LAG SCREW WITH FLAT WASHER	1 PER EACH HEAD, SILL & SIDE JAMB CONNECTION ANGLE INTO WOOD FRAME
27	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
28	1/2" X 2" HEX HEAD A307 PLATED STEEL OR S/STL BOLT	WITH FLAT WASHERS, LOCK WASHER & NUT; 1 PER EA. JAMB CONNECTION ANGLE INTO STEEL FRAME
29	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

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

PRODUCT REVISED
 03-05/13
 07/27/08
 Division


WARREN W. SCHAEFER, P.E.
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 PHONE: 561-775-4902

A1	ITEM "1A" WAS "1"; ADDED ITEMS "1B" & "1C"	04/29/03	K.P.S.	W.W.S.
REVISION		DATE	DRN	APPD
 ARROW UNITED INDUSTRIES A Division of Mestek, Inc. 314 RIVERSIDE DRIVE - P.O. BOX 69 WYALUSING, PA 18853 PHONE 570-746-1888; FAX 570-746-9286				
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.		DWG. NO. 35972-4		REV. A
DATE 06-16-00				