



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

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

American Warming and Ventilating
7301 International Drive
Holland, OH 43528

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 LE-32 6" Aluminum Louver System

APPROVAL DOCUMENT: Drawing No. 31604-6, titled "LE-32 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 # 08-0423.06** 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]
 11/13/08

NOA No. 08-1030.06
 Expiration Date: July 27, 2013
 Approval Date: December 4, 2008
 Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **31604-6**, titled "LE-32 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 "LE-22 4" Aluminum 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

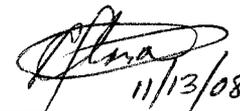
1. Revision calculations prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 04/17/08, signed and sealed by Warren W. Schaefer, P.E.
1. Allowable Load Calculations, dated 11/10/99, pages 1 to 3 of 3, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by W. W. Schaefer, 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. 03-1027.01"

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None.



11/13/08

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 08-1030.06
Expiration Date: July 27, 2013
Approval Date: December 4, 2008

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS

1. Code compliance letter issued by W. W. Schaefer Engineering & Consulting, P.A., dated 04/18/08, signed and sealed by Warren W. Schaefer, P.E.
2. 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.

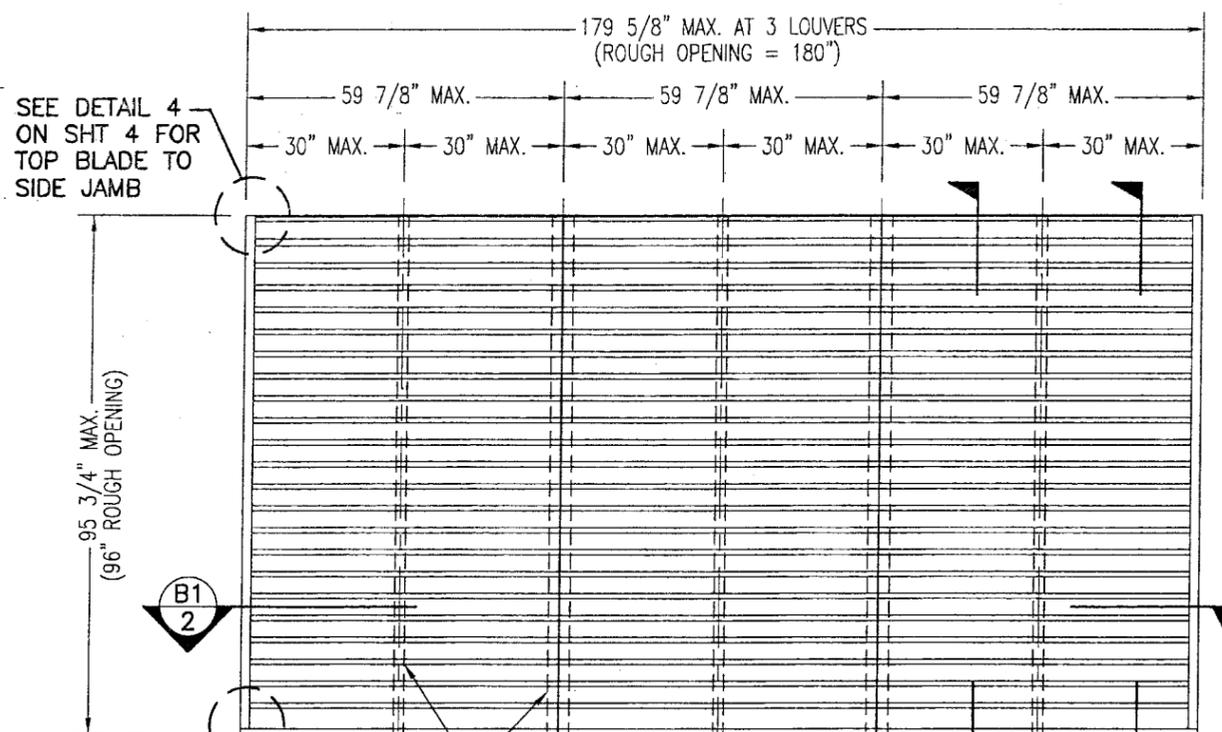
G. OTHER

1. Notice of Acceptance No. **08-0423.06**, issued to American Warming and Ventilating, approved on 07/31/08 and expiring on 07/27/09.



11/13/08

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 08-1030.06
Expiration Date: July 27, 2013
Approval Date: December 4, 2008



SEE DETAIL 4 ON SHT 4 FOR TOP BLADE TO SIDE JAMB

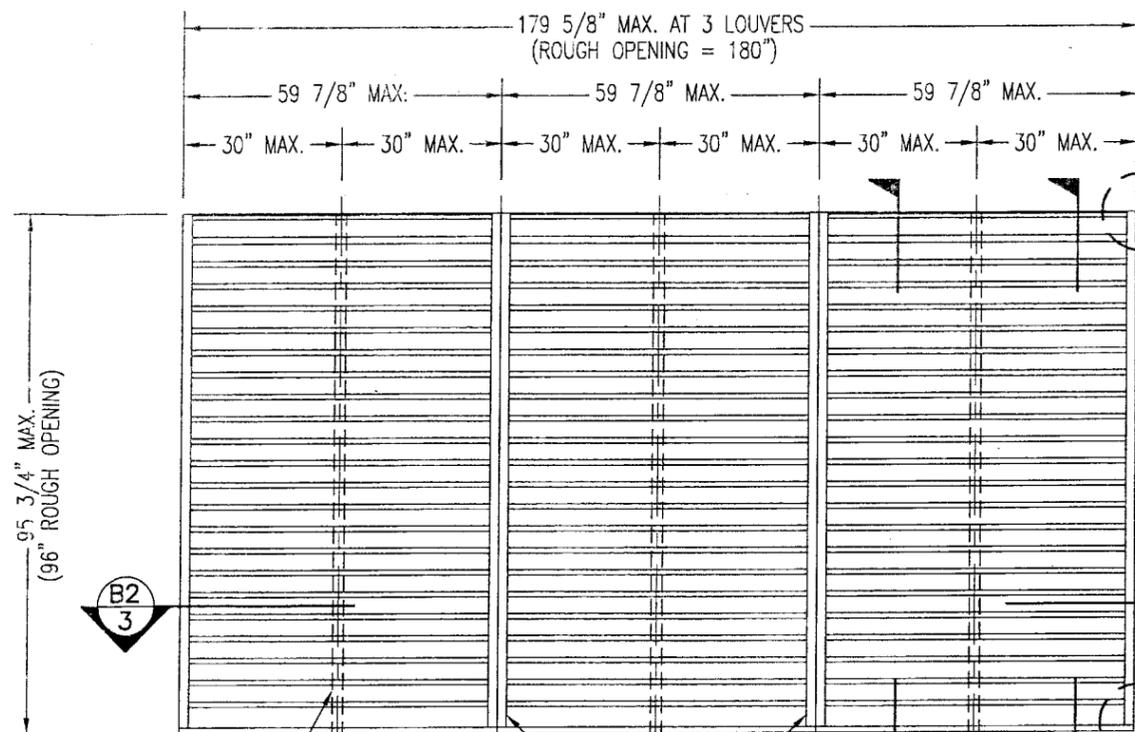
SEE CORNER DETAIL ON THIS SHEET.

HIDDEN LINES ARE FOR SUPPORT ANGLES AT BACK SIDE OF LOUVERS.

EXTERIOR ELEVATION ARCHITECTURAL 6" LOUVER

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.



SEE DETAIL 4 ON SHT 4 FOR TOP BLADE TO SIDE JAMB

SEE CORNER DETAIL ON THIS SHEET.

HIDDEN LINES ARE FOR SUPPORT ANGLES AT BACK SIDE OF LOUVERS.

EXTERIOR ELEVATION NON-ARCHITECTURAL 6" LOUVER

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.

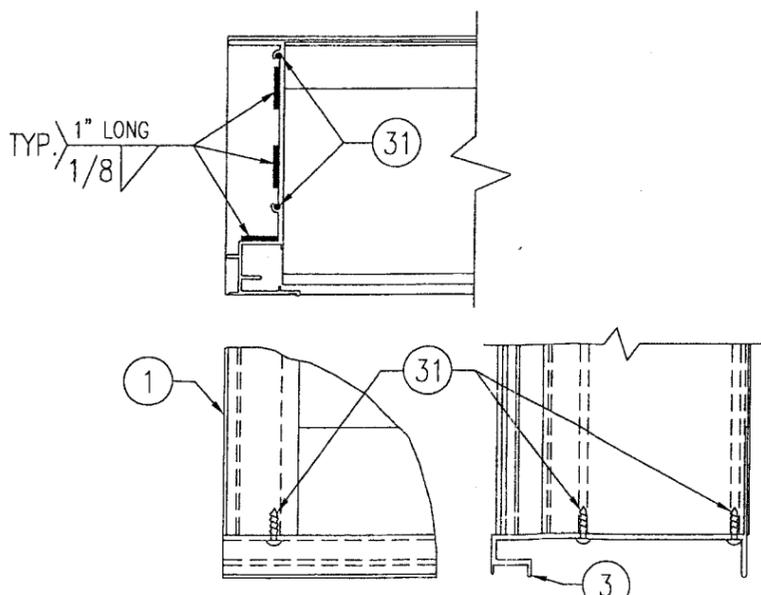
MAX. ALLOWABLE DESIGN WIND PRESSURE

POSITIVE	NEGATIVE
150 PSF	150 PSF

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

GENERAL NOTES:

1. THESE LOUVER SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS MUST BE PROPERLY DESIGNED & CONSTRUCTED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT LOUVERS.
5. THESE LOUVER SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. ALL ANCHORS SECURING LOUVER FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
7. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF $K_d = 0.85$ MAY BE APPLIED WHEN USED IN CONJUNCTION WITH LOAD COMBINATIONS SPECIFIED IN SECTION 2.0 OF THE ASCE 7 STANDARD.
8. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR $C_d = 1.6$ WAS USED FOR WOOD SCREW ANALYSIS ONLY.
9. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.
10. MAXIMUM ALLOWABLE INDIVIDUAL PANEL SIZE = 59 7/8" X 95 3/4".
11. MAXIMUM ASSEMBLY SIZE = UNLIMITED WIDTH; UP TO 95 3/4" HEIGHT.
12. ASSEMBLIES/SECTIONS MAY BE STACKED VERTICALLY PROVIDING A STRUCTURAL SUPPORT IS DESIGNED & INSTALLED BY OTHERS TO SUPPORT ALL LOADS TRANSFERRED FROM THE LOUVER ASSEMBLY.
13. MAXIMUM UNSUPPORTED BLADE LENGTH SHALL NOT EXCEED 30"
14. ALL FASTENERS SHALL BE PLATED STEEL OR 304 STAINLESS STEEL.
15. SPECIFIED SUBSTRATES REQUIREMENTS:
 CONCRETE: MIN. 3000 PSI
 MASONRY: MIN. C90 CMU
 WOOD: MIN. GRADE 2; G = 0.55
 STEEL: MIN. 1/8" THICK A36 (36 KSI)
16. THIS SYSTEM HAS NOT BEEN TESTED FOR WATER INFILTRATION RESISTANCE & IS NOT A WATER RESISTANT SYSTEM.



SILL CORNER DETAIL

PRODUCT RENEWED
 as complying with the Florida Building Code
 Acceptance No. 08-1030.06 Expiration Date 07/27/2013
 By: [Signature] Miami Dade Product Control Division

PRODUCT RENEWED
 as complying with the Florida Building Code
 Acceptance No. 08-0423.06 Expiration Date 07/27/2009
 By: [Signature] Miami Dade Product Control Division

B1	UPDATE FOR CODE COMPLIANCE	04/17/08	WRM	WWS
A	UPDATED NOTES 6, 12, 13 & 14	10/15/03	KPS	WWS
	REVISION	DATE	DRN	APPD

APR 18 2008

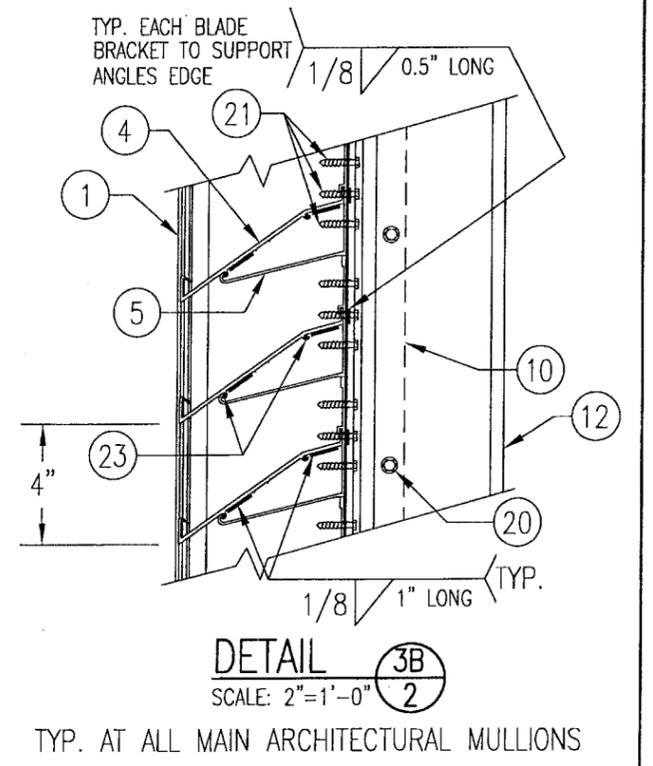
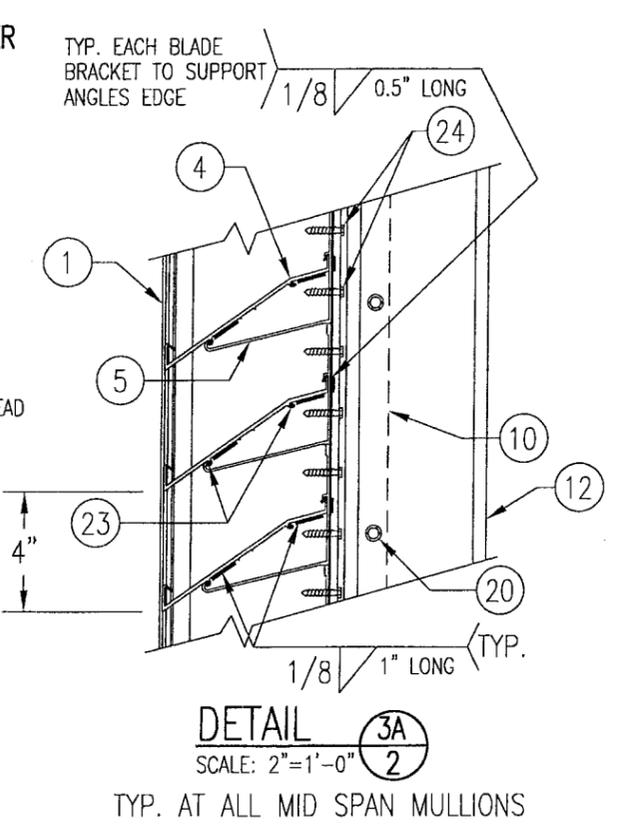
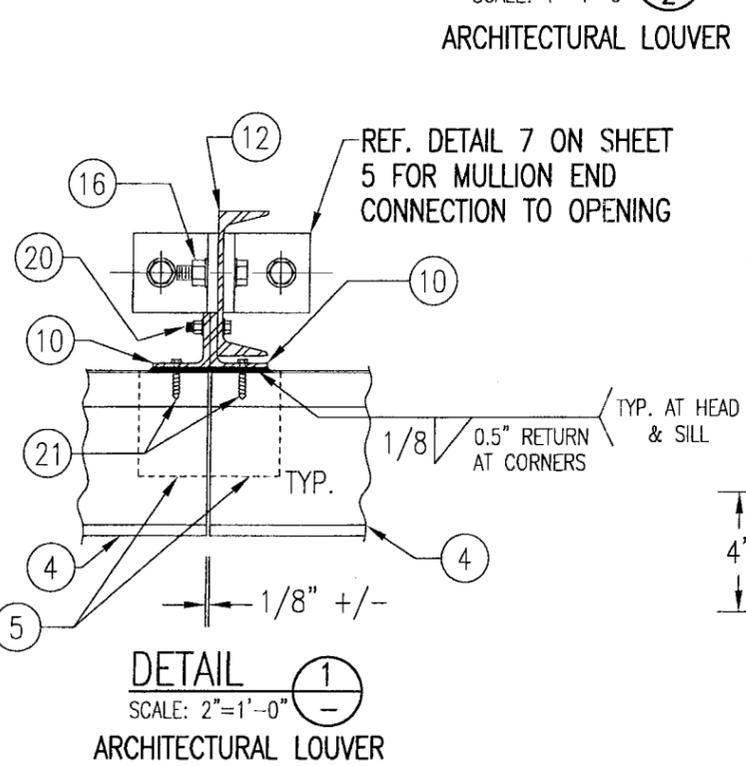
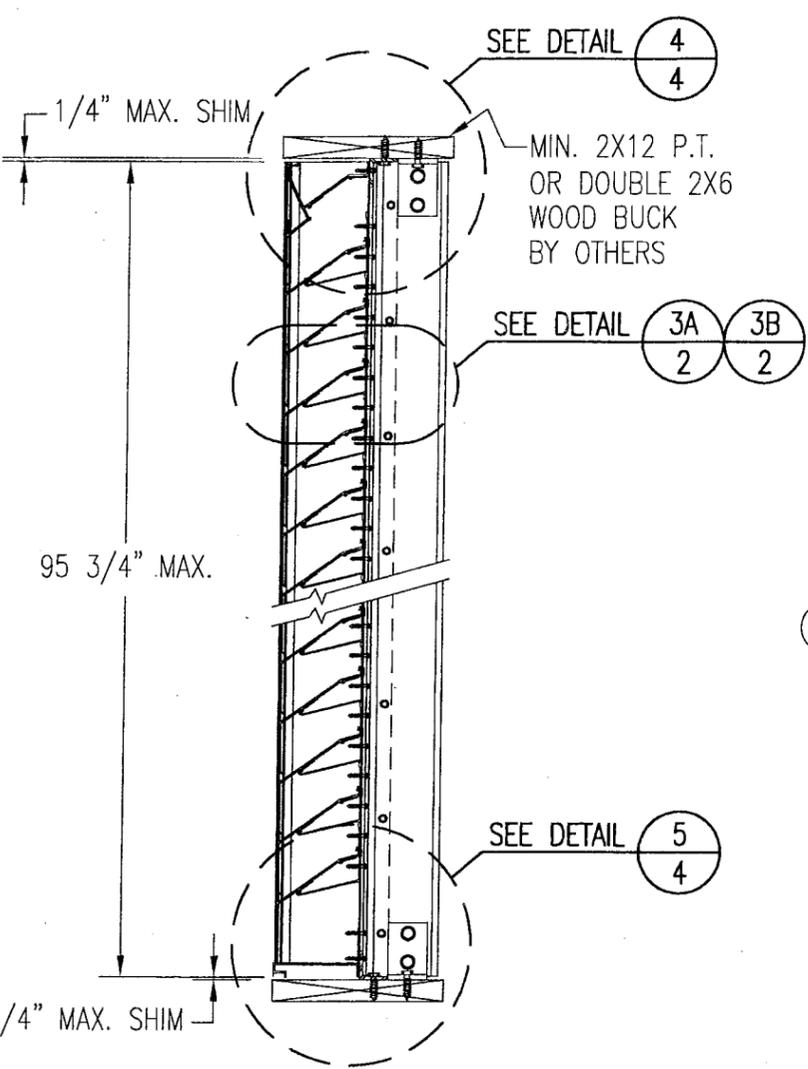
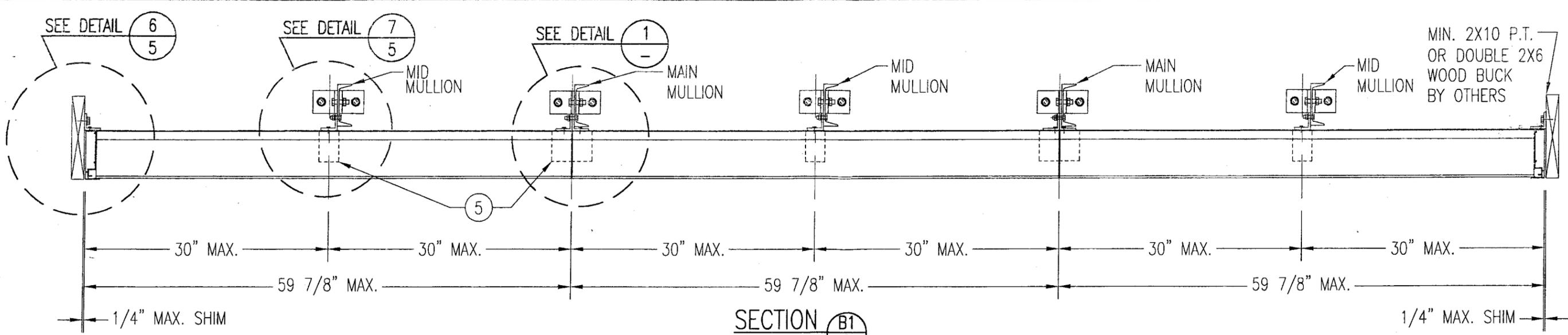
WARREN W. SCHAEFER, P.E.
 STRUCTURAL ENGINEER
 P.E. No. 44135

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

awv american warming and ventilating
 A MESTEK COMPANY
 7301 INTERNATIONAL DRIVE HOLLAND, OHIO
 PHONE 419-865-5000; FAX 419-865-1375

LE-32 TEST LOUVER
ARCH. & NON-ARCH. LOUVER ELEVATIONS & NOTES

CKD.BY: [] APPD.BY: W.W.S. SHEET: 1 of 7
 DRN.BY: W.W.S. DWG. NO.: 31604-6
 DATE: 06-16-00

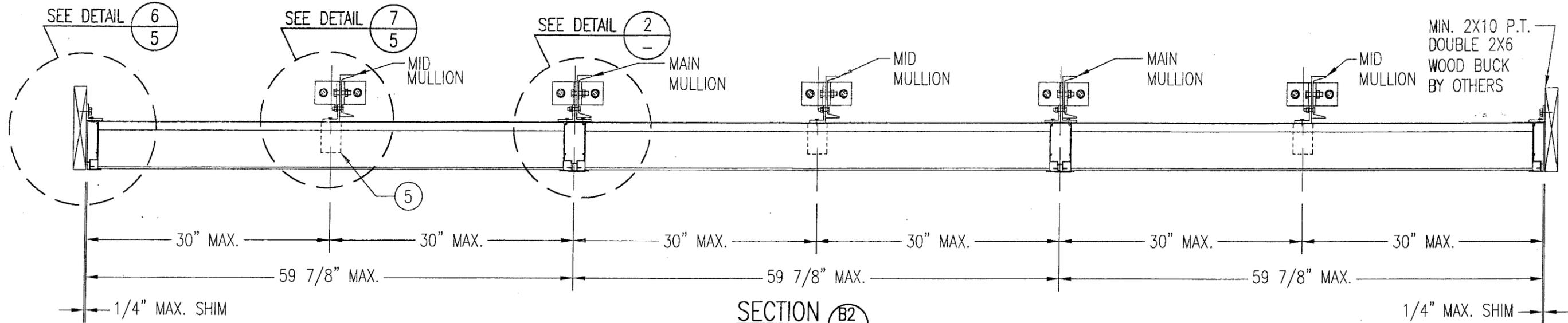


PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No 08-1030.06
 Expiration Date 07/27/2013
 By [Signature]
 Miami Trade Product Control
 Division

PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No 08-0123.06
 Expiration Date 07/27/2009
 By [Signature]
 Miami Trade Product Control
 Division

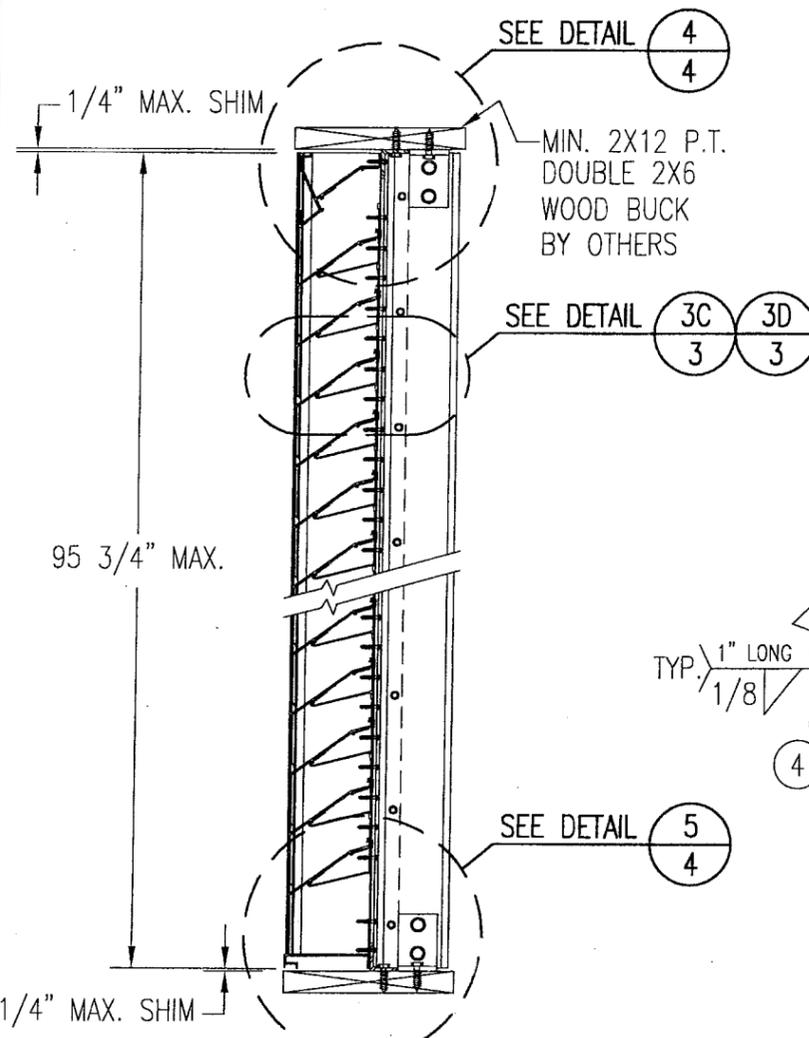
APR 18 2008
 WARREN W. SCHAEFER, P.E.
 STRUCTURAL ENGINEER
 P.E. No. 44135
 W. W. SCHAEFER ENGINEERING
 & CONSULTING, P.A.
 STRUCTURAL CONSULTING ENGINEERS
 8895 N. MILITARY TRAIL, SUITE C-204
 PALM BEACH GARDENS, FL 33410
 PHONE: 561-775-4902

REVISION	DATE	DRN	CK	APPD
AWV american warming and ventilating A MESTEK COMPANY 7301 INTERNATIONAL DRIVE HOLLAND, OHIO PHONE 419-865-5000; FAX 419-865-1375				
LE-32 TEST LOUVER ARCHITECTURAL LOUVER SECTIONS & DETAILS				
CKD.BY	APPD.BY	W.W.S.	SHEET: 2 of 7	
DRN.BY	W.W.S.	DWG. NO.	REV.	
DATE	06-16-00	31604-6	B	



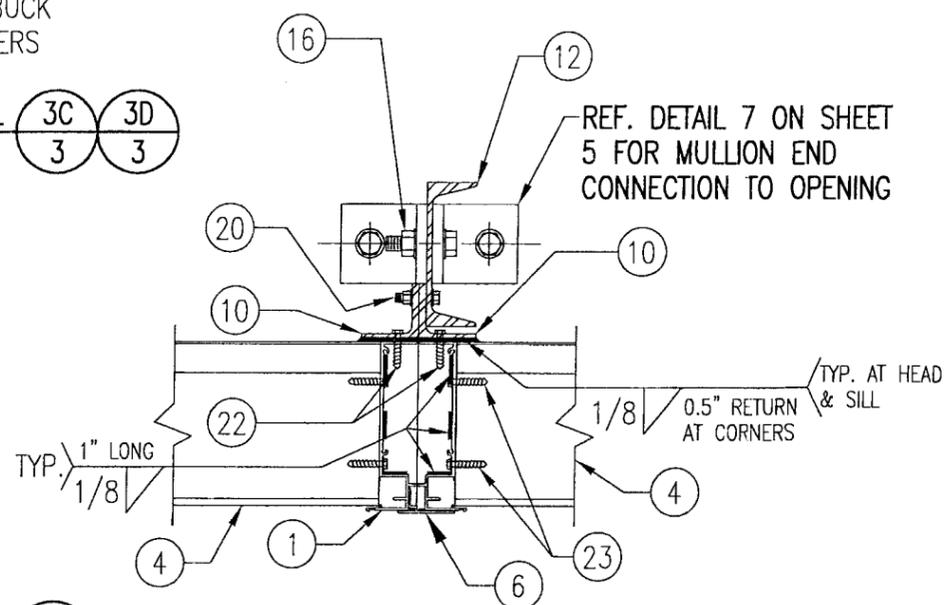
SECTION B2
SCALE: 1"=1'-0"
3

NON-ARCHITECTURAL LOUVER



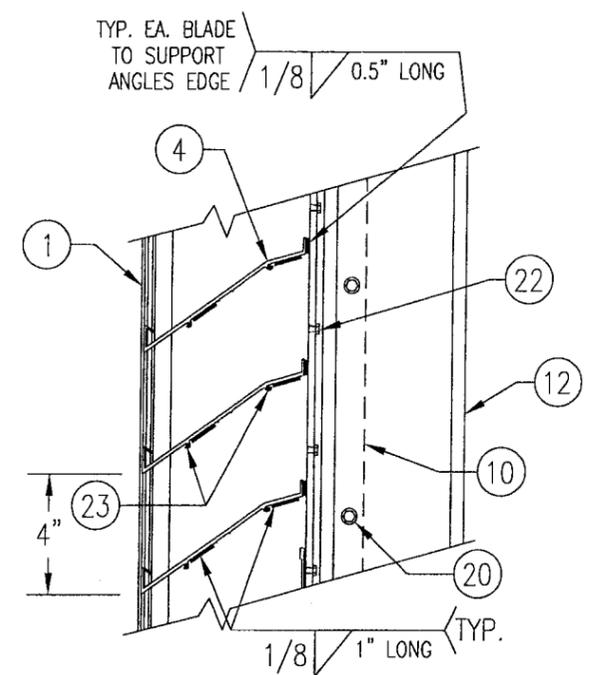
SECTION A2
SCALE: 1"=1'-0"
3

NON-ARCHITECTURAL LOUVER



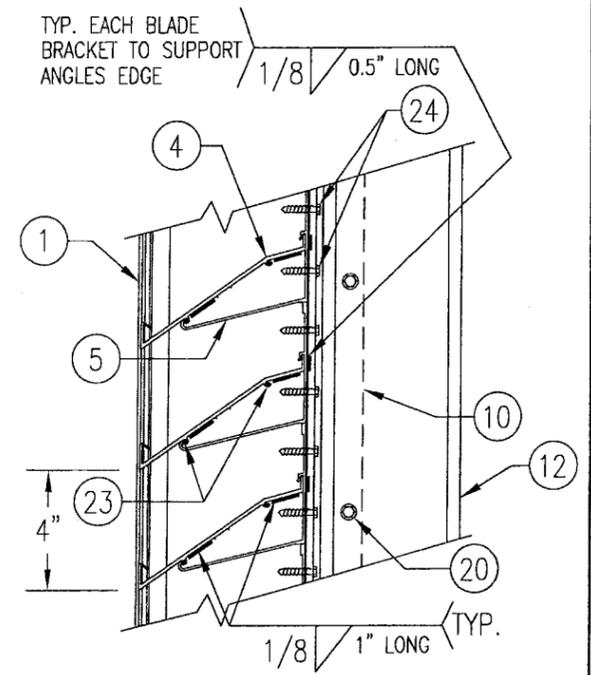
DETAIL 2
SCALE: 2"=1'-0"
-

NON-ARCHITECTURAL LOUVER
NOTE: SIDE JAMBS ARE ADDITIONALLY FASTENED TO THE SILL WITH 2 NO. 8 X 3/4" SMS THROUGH SILL & INTO JAMB SPLINES.



DETAIL 3C
SCALE: 2"=1'-0"
3

TYP. AT ALL MAIN NON-ARCHITECTURAL MULLIONS



DETAIL 3D
SCALE: 2"=1'-0"
3

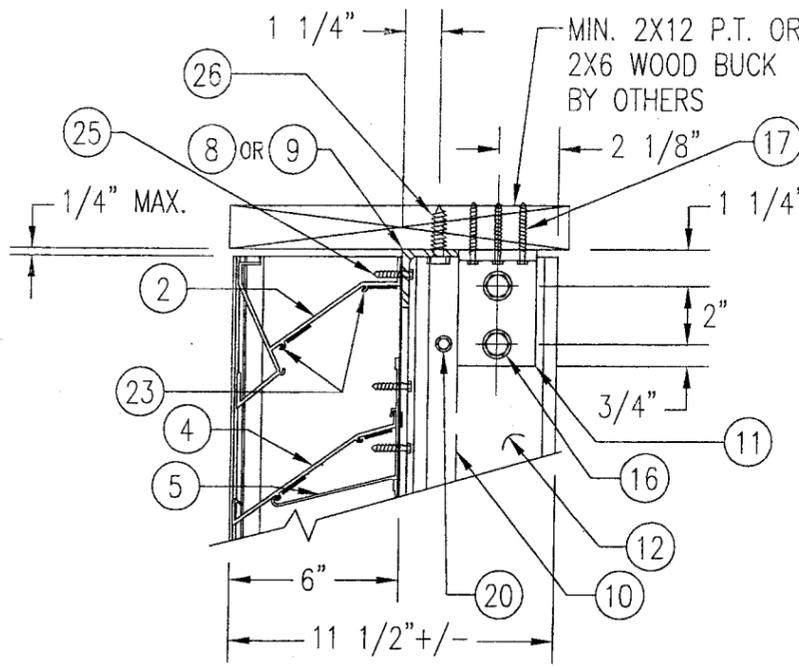
TYP. AT ALL MID SPAN MULLIONS

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No. 08-1030.06
Expiration Date 07/27/2013
By *[Signature]*
Miami Dade Product Control Division

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as complying with the Florida Building Code
Acceptance No. 08-0423.06
Expiration Date 07/27/2009
By *[Signature]*
Miami Dade Product Control Division

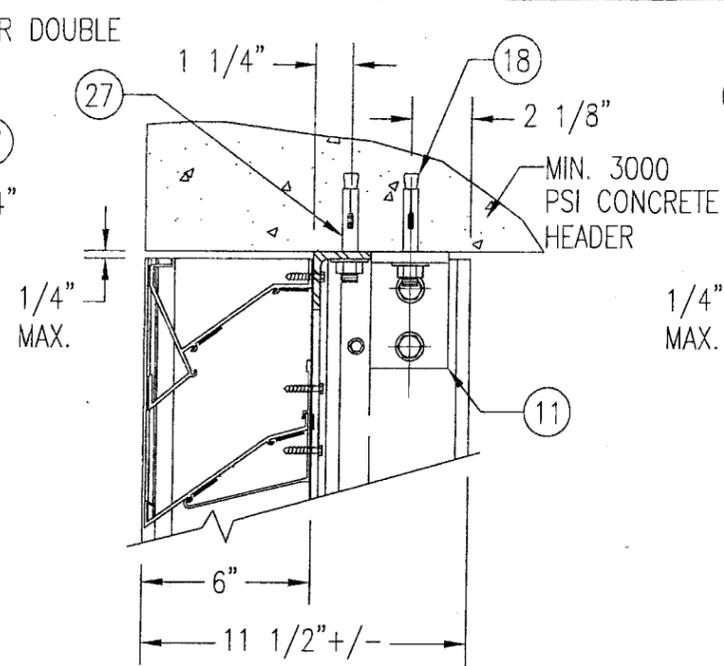
APR 18 2000
WARREN W. SCHAEFER, P.E.
STRUCTURAL ENGINEER
P.E. No. 44135
W.W. SCHAEFER ENGINEERING & CONSULTING, P.A.
STRUCTURAL CONSULTING ENGINEERS
8895 N. MILITARY TRAIL, SUITE C-204
PALM BEACH GARDENS, FL 33410
PHONE: 561-775-4902

REVISION	DATE	DRN	CK	APPD
awv american warming and ventilating A MESTEK COMPANY 7301 INTERNATIONAL DRIVE HOLLAND, OHIO PHONE 419-865-5000; FAX 419-865-1375 LE-32 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	31604-6	B	



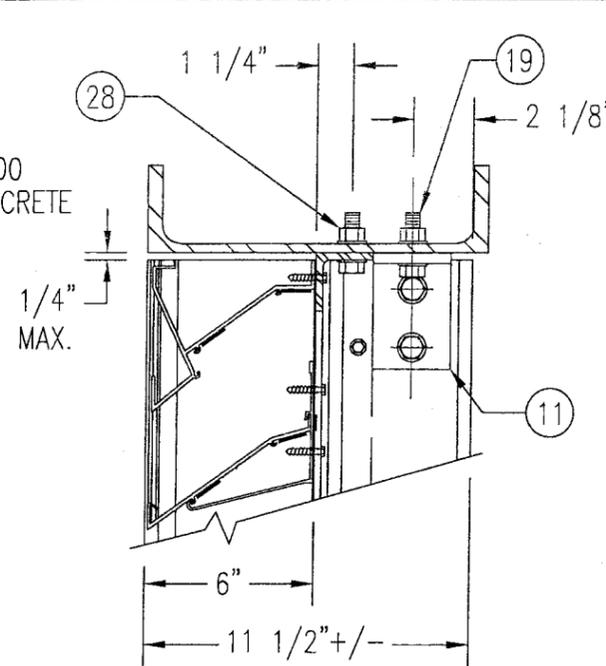
WOOD FRAMED OPENING

SEE "DETAIL 3A & 3B" FOR LOUVER BLADE DETAILS



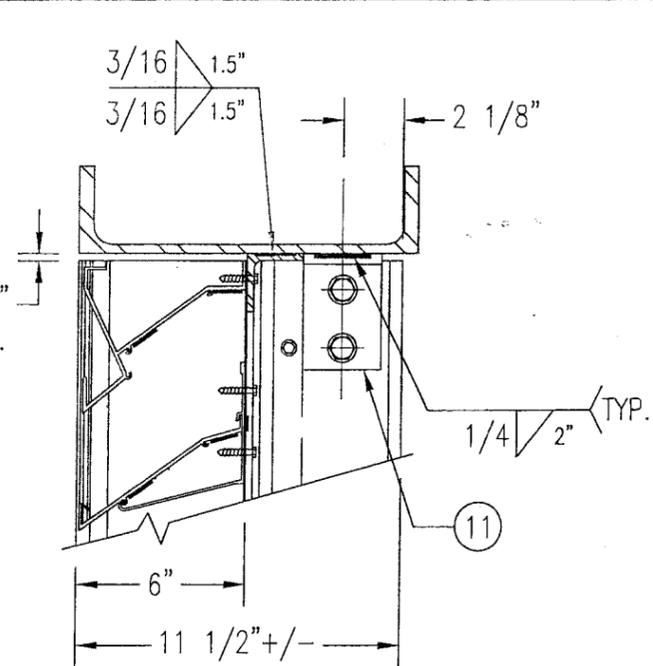
CONCRETE HEAD

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)

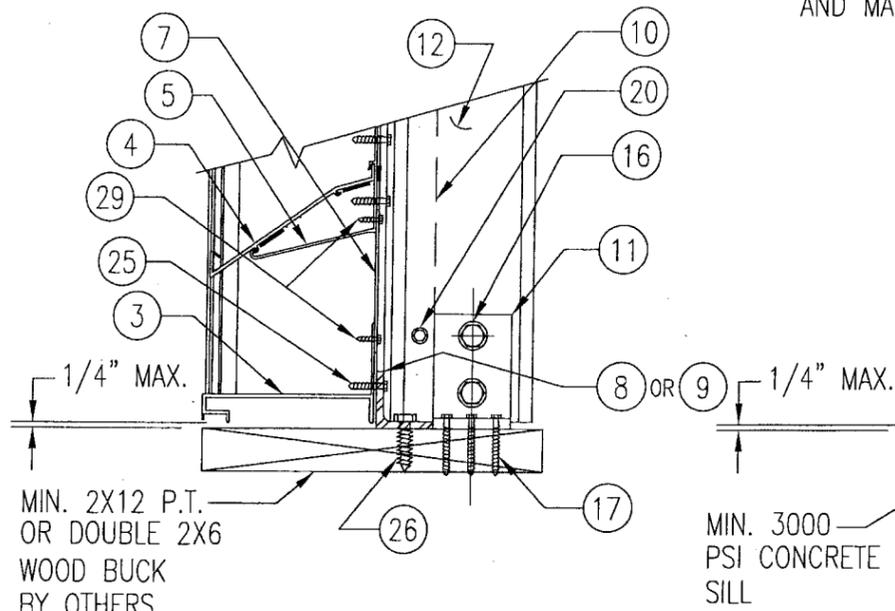
SEE "WOOD OPENING" FOR DETAIL NOT SHOWN



STEEL FRAME OPENING (WELDED)

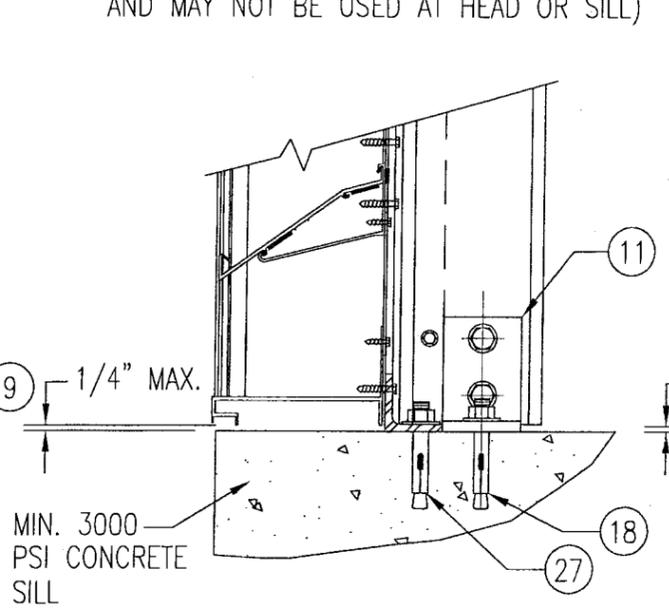
SEE "WOOD OPENING" FOR DETAIL NOT SHOWN

DETAIL 4
 SCALE: 2"=1'-0"



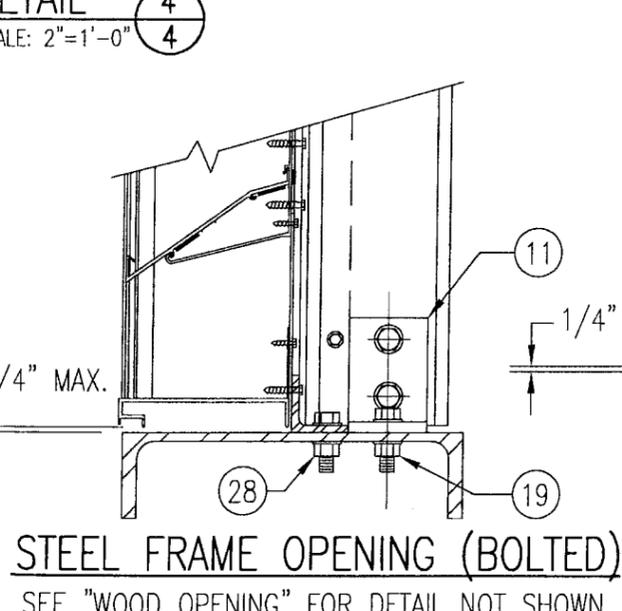
WOOD FRAMED OPENING

SEE "DETAIL 3A & 3B" FOR LOUVER BLADE DETAILS



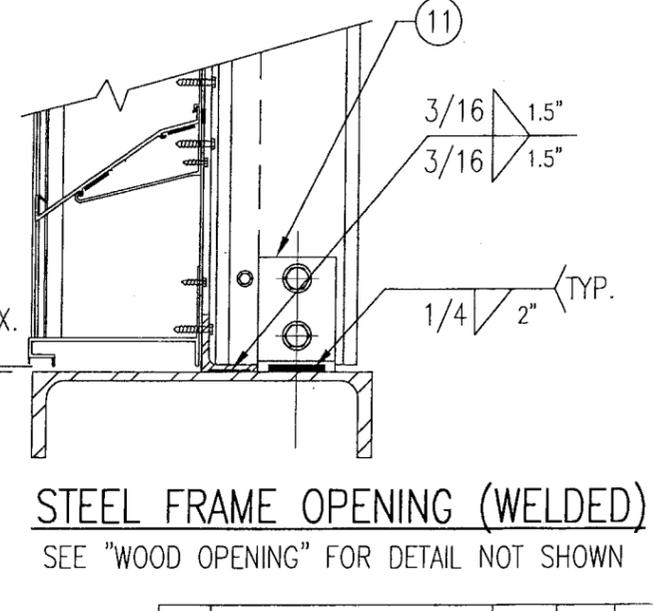
CONCRETE SILL

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 5
 SCALE: 2"=1'-0"

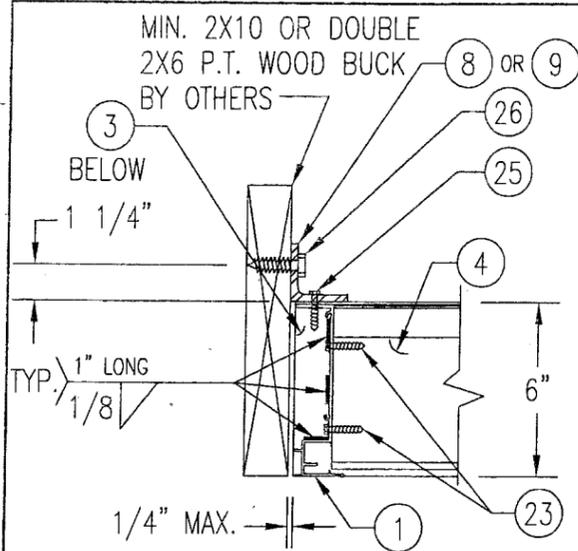
PRODUCT RENEWED
 as complying with the Florida Building Code
 Acceptance No 08-1030.06
 Expiration Date 07/27/2013
 By [Signature]
 Miami Dade Product Control Division

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

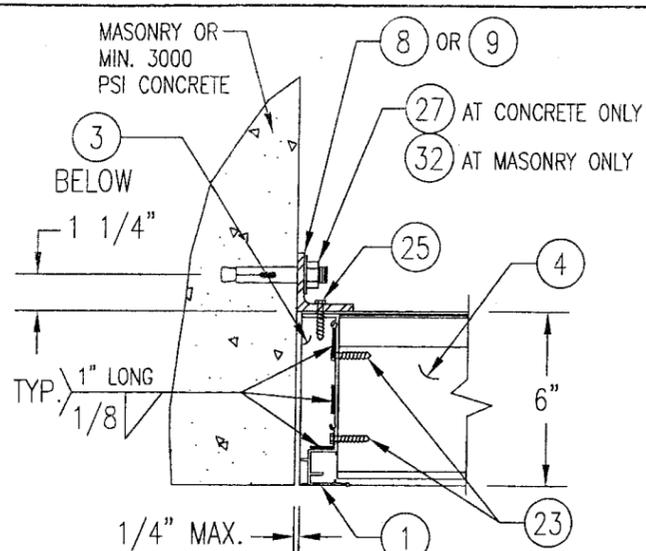
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APR 18 2000
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 STRUCTURAL ENGINEER
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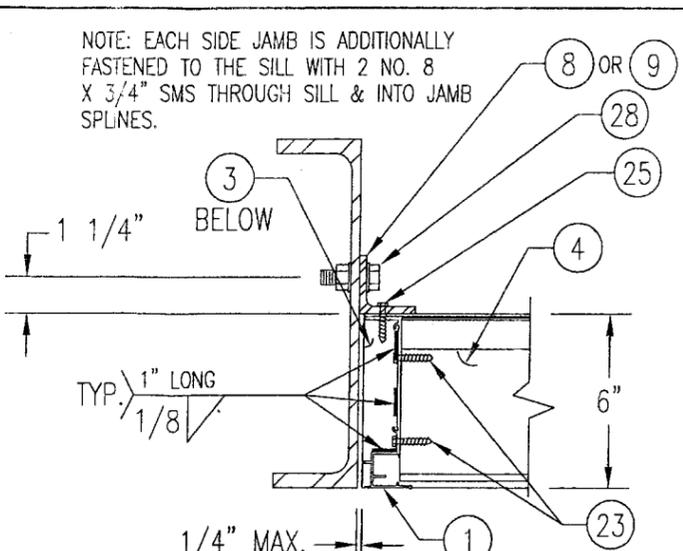
REVISION	DATE	DRN	CK	APPD
awv american warming and ventilating A MESTEK COMPANY 7301 INTERNATIONAL DRIVE HOLLAND, OHIO PHONE 419-865-5000; FAX 419-865-1375 LE-32 TEST LOUVER ARCH. & NON-ARCH. LOUVER DETAILS				
CKD.BY	APPD.BY	W.W.S.	SHEET: 4 of 7	
DRN.BY	W.W.S.	DWG. NO.	REV.	
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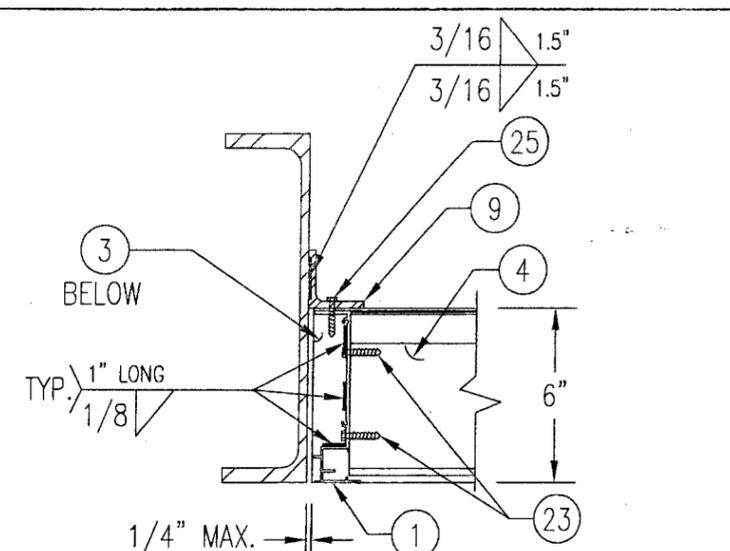
WOOD FRAMED OPENING



CONCRETE/MASONRY OPENING

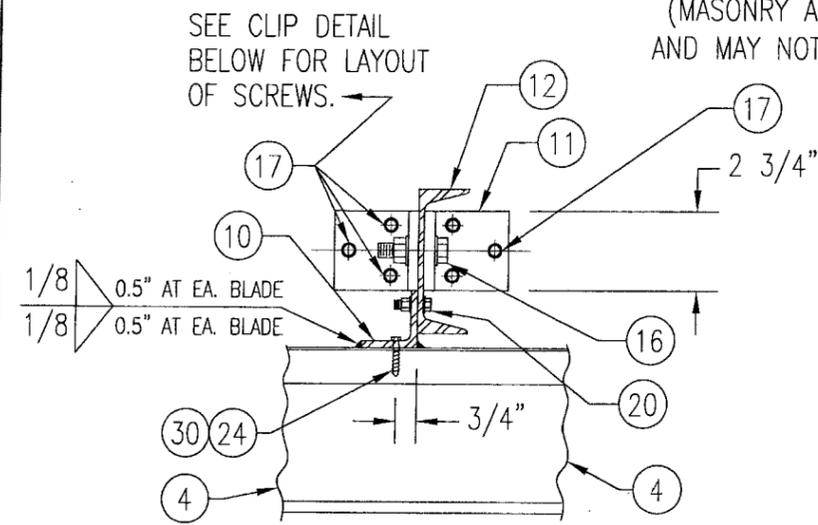


STEEL FRAME OPENING (BOLTED)

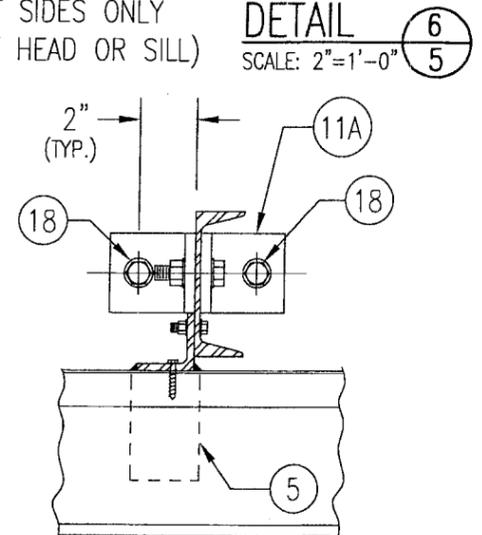


STEEL FRAME OPENING (WELDED)

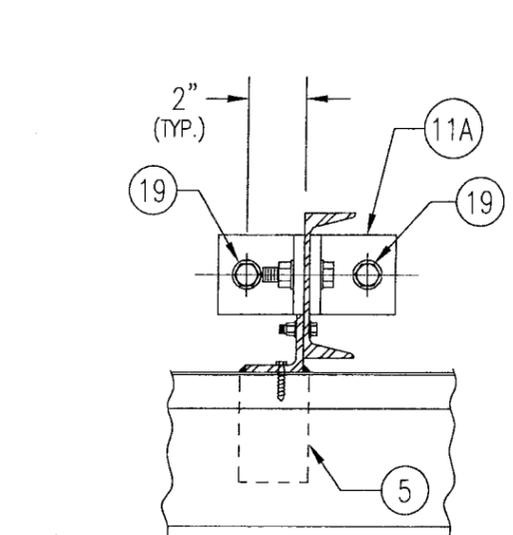
NOTE: EACH SIDE JAMB IS ADDITIONALLY FASTENED TO THE SILL WITH 2 NO. 8 X 3/4\"/>



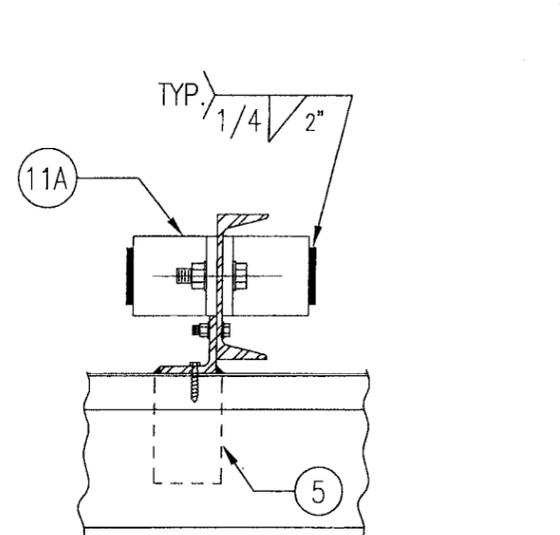
WOOD FRAMED OPENING



CONCRETE HEAD & SILL



STEEL FRAME OPENING (BOLTED)



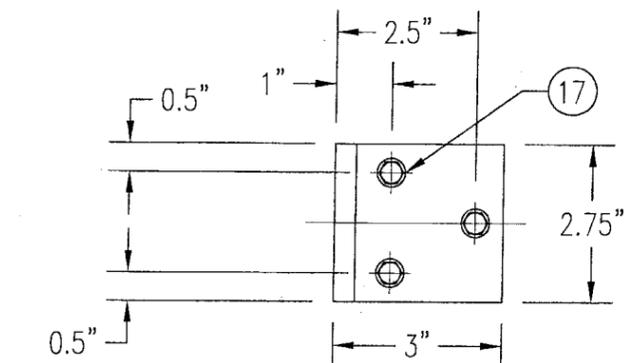
STEEL FRAME OPENING (WELDED)

(MASONRY ACCEPTABLE AT SIDES ONLY AND MAY NOT BE USED AT HEAD OR SILL) **DETAIL 6** SCALE: 2\"/>

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

SEE "WOOD OPENING" FOR DETAIL NOT SHOWN

SEE "WOOD OPENING" FOR DETAIL NOT SHOWN



MULLION CLIP DETAIL @ WOOD INSTALLATION

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

DETAIL 7 SCALE: 2\"/>

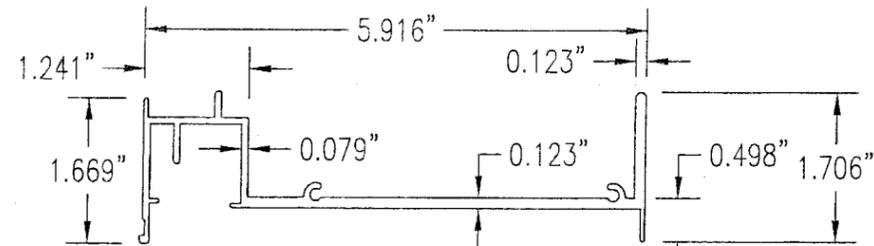
PRODUCT RENEWED as complying with the Florida Building Code Acceptance No. 08-1030-06 Expiration Date 07/27/2013

By *[Signature]* Miami-Trade Product Control Division

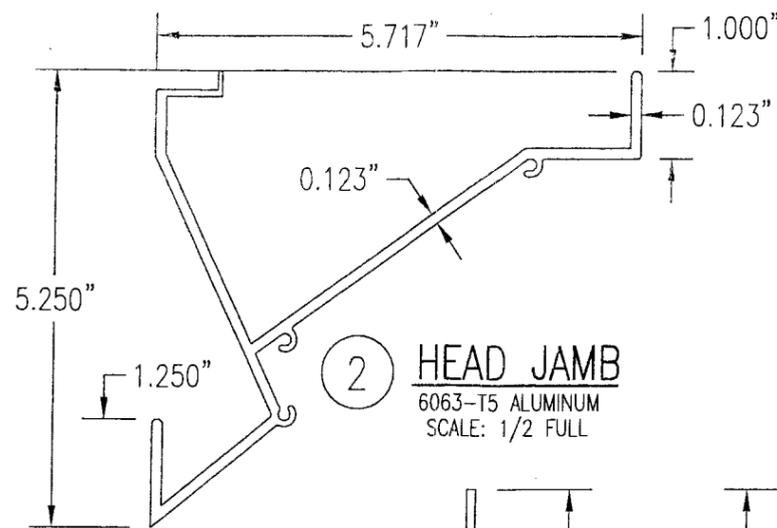
PRODUCT RENEWED as complying with the Florida Building Code Acceptance No. 08-0923-06 Expiration Date 07/27/2009

By *[Signature]* Miami-Trade Product Control Division

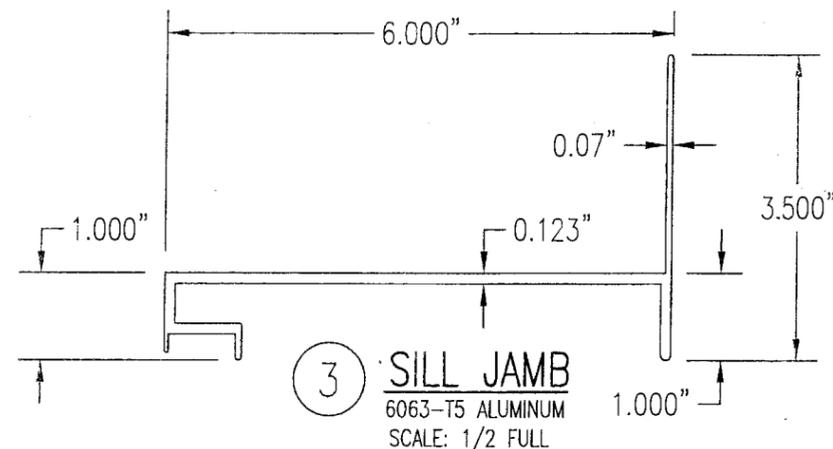
APR 18 2008		REVISION		DATE	DRN	CK	APPD
WARREN W. SCHAEFER, P.E. STRUCTURAL ENGINEER P.E. No. 44135		awv american warming and ventilating A MESTEK COMPANY 7301 INTERNATIONAL DRIVE HOLLAND, OHIO PHONE 419-865-5000; FAX 419-865-1375		LE-32 TEST LOUVER ARCH. & NON-ARCH. LOUVER DETAILS		CKD.BY	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. STRUCTURAL CONSULTING ENGINEERS 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902		DATE 06-16-00		APPD.BY W.W.S.		SHEET: 5 of 7	
By <i>[Signature]</i> Miami-Trade Product Control Division		REV. 31604-6		REV. B			



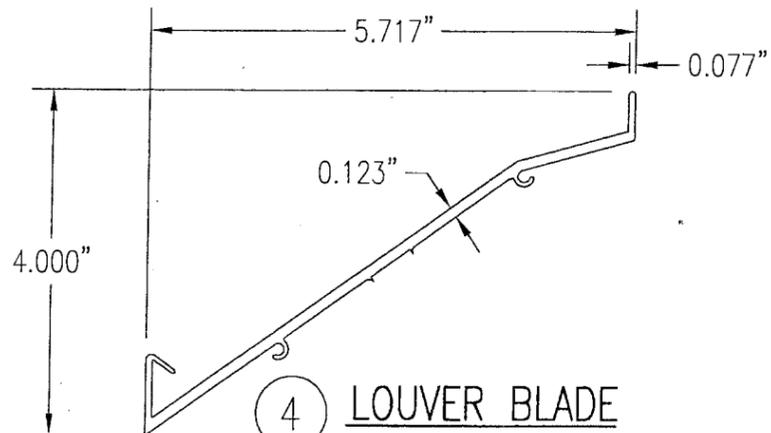
1 JAMB EXTRUSION
6063-T5 ALUMINUM
SCALE: 1/2 FULL



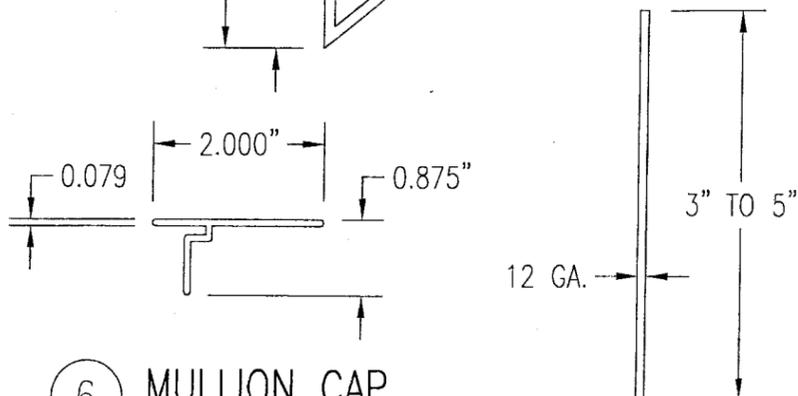
2 HEAD JAMB
6063-T5 ALUMINUM
SCALE: 1/2 FULL



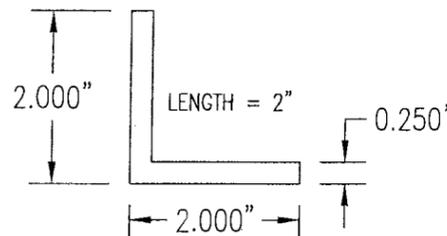
3 SILL JAMB
6063-T5 ALUMINUM
SCALE: 1/2 FULL



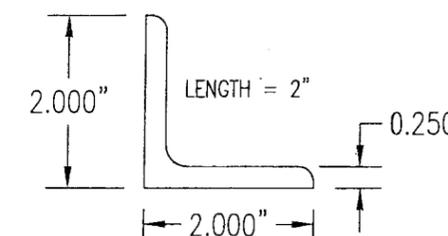
4 LOUVER BLADE
6063-T5 ALUMINUM
SCALE: 1/2 FULL



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

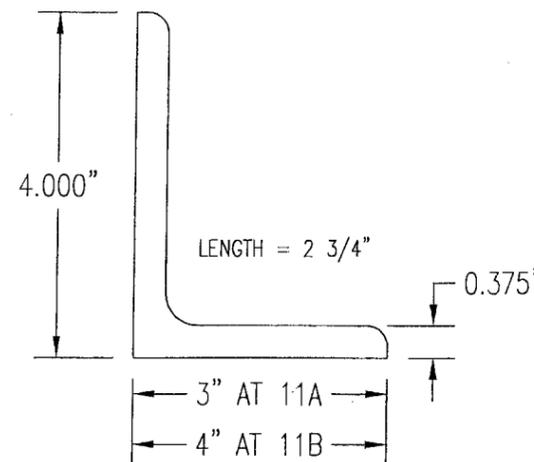


8 CONNECTION ANGLE
6063-T5 ALUMINUM
SCALE: 1/2 FULL

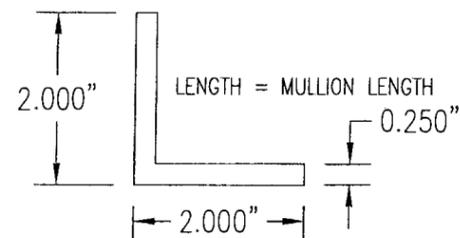


9 CONNECTION ANGLE
A36 STEEL
SCALE: 1/2 FULL

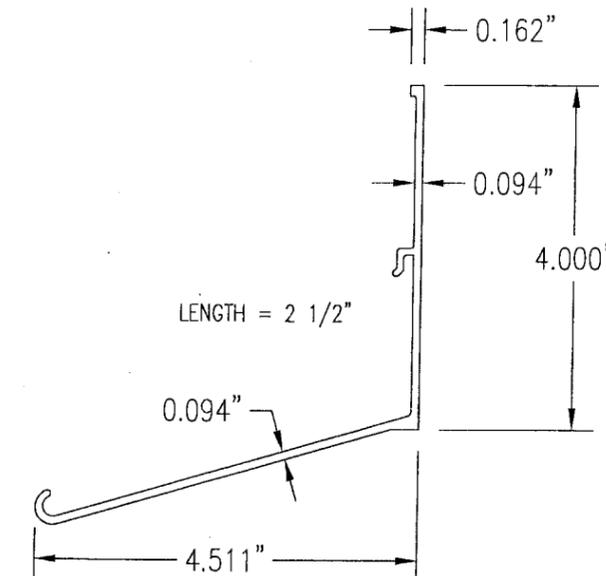
7 SILL PLATE
3003/5005 ALUMINUM
SCALE: 1/2 FULL



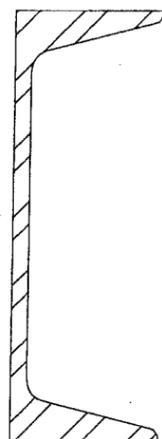
11A 11B MULLION END CONNECTION ANGLE
A36 STEEL
SCALE: 1/2 FULL



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



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



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

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Miami Dade Product Control
Division

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Acceptance No 08-0423-06
Expiration Date 07/27/2009
By *Alma*
Miami Dade Product Control
Division

APR 18 2008
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
dwv american warming and ventilating A MESTEK COMPANY 7301 INTERNATIONAL DRIVE HOLLAND, OHIO PHONE 419-865-5000; FAX 419-865-1375 LE-32 TEST LOUVER ARCH. & NON-ARCH. 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 31604-6 B				

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		
1	SIDE JAMB FRAME/MULLION	6063-T5 ALUMINUM
2	HEAD FRAME	6063-T5 ALUMINUM
3	SILL FRAME	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 PLATE	3003/5005 ALUMINUM; FULL LENGTH OF PANEL SILL
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	OPEN	
14	OPEN	
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. 14 X 1 1/4" HILTI TEK SCREW	3 AT EACH LOUVER BLADE SUPPORT BRACKET AT ARCHITECTURAL MAIN MULLIONS
22	NO. 14 X 1 1/4" HILTI TEK SCREW	WITHIN 1 1/4" OF MULLION ENDS & MAX. 4" O.C. INTO FRAME
23	NO. 8 X 3/4" SMS	2 PER EACH LOUVER BLADE END THROUGH JAMB & INTO BLADE SPLINES
24	NO. 14 X 1 1/4" HILTI TEK SCREW	2 AT EACH LOUVER BLADE SUPPORT BRACKET AT ALL MIDSPAN MULLIONS
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	NO. 8 X 3/4" SMS	2 SCREWS WITHIN 4" OF SILL PLATE ENDS & MAX. 12" O.C. (SILL PLATE TO SILL JAMB AND FIRST LOUVER BLADE)
30	NO. 14 X 1 1/4" HILTI TEK SCREW	1 AT EACH MULLION ANGLE INTO HEAD & SILL JAMB
31	NO. 8 X 3/4" SMS SCREWS	2 PER FRAME SILL CORNER THROUGH SILL & INTO JAMB SPLINES
32	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)

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.

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 Miami Dade Product Control Division

APR 18 2008
 WARREN W. SCHAEFER, P.E.
 STRUCTURAL ENGINEER
 P.E. No. 44135

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 PHONE 419-865-5000; FAX 419-865-1375

LE-32 TEST LOUVER
ARCH. & NON-ARCH. LOUVER
MATERIAL LIST & LOAD TABLE

CKD.BY	APPD.BY W.W.S.	SHEET: 7 of 7
DRN.BY W.W.S.	DWG. NO.	REV.
DATE 06-16-00	31604-6	B