



**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)

**Cesco Products
7435 Industrial Road
Florence, KY 41042**

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 Architectural & Non-Architectural Model X4HW 4" Louver System.

APPROVAL DOCUMENT: Drawing No.1263, titled "Model X4HW 4" Louver System" dated 11/18/03 with no revisions, prepared by W.W. Schaefer Engineering & Consulting, PA, signed and sealed by W. W. Schaefer P.E., bearing the Miami-Dade County Product Control Approval stamp with the NOA number and approval 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 is a Private Label of NOA # 03-0514.13 consists of this page, evidence page as well as approval document mentioned above.

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



**NOA No: 04-0204.04
Expiration Date: July 27, 2008
Approval Date: April 29, 2004
Page 1**

NOTICE OF ACCEPTANCE: EVIDENCE PAGE

A. DRAWINGS.

1. Drawing prepared by W. W. Schaefer Engineering & Consulting, P.A. titled "Model X4HW 4" Louver System," Drawing No. 1263, dated 11/18/03 with no revision 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

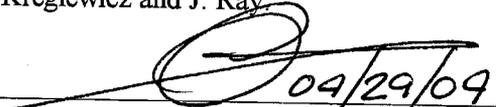
1. Miami-Dade Product Control Division.

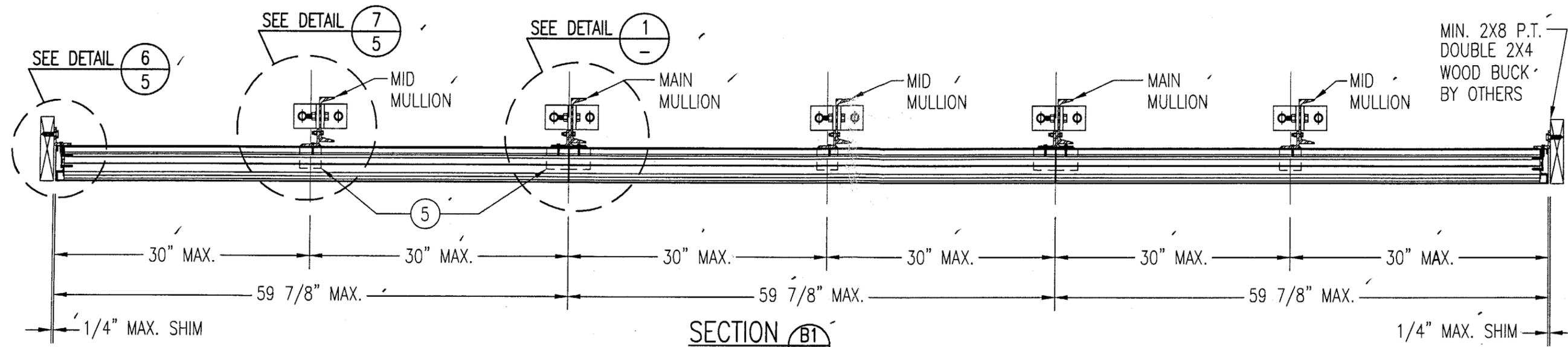
E. MATERIAL CERTIFICATIONS.

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.

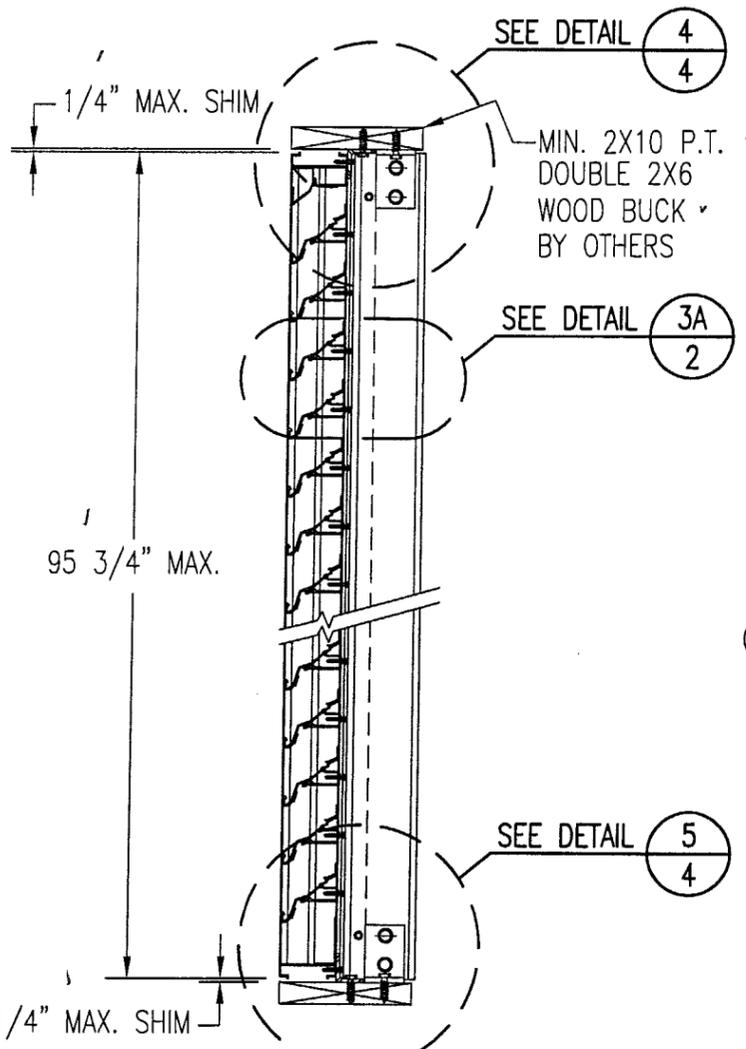
F. STATEMENTS

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.
5. Private Labeling Agreement prepared by NOA Holder Arrow United Industries and Private Labeler Louvers & Cesco Products, signed by V. Kreglewicz and J. Ray

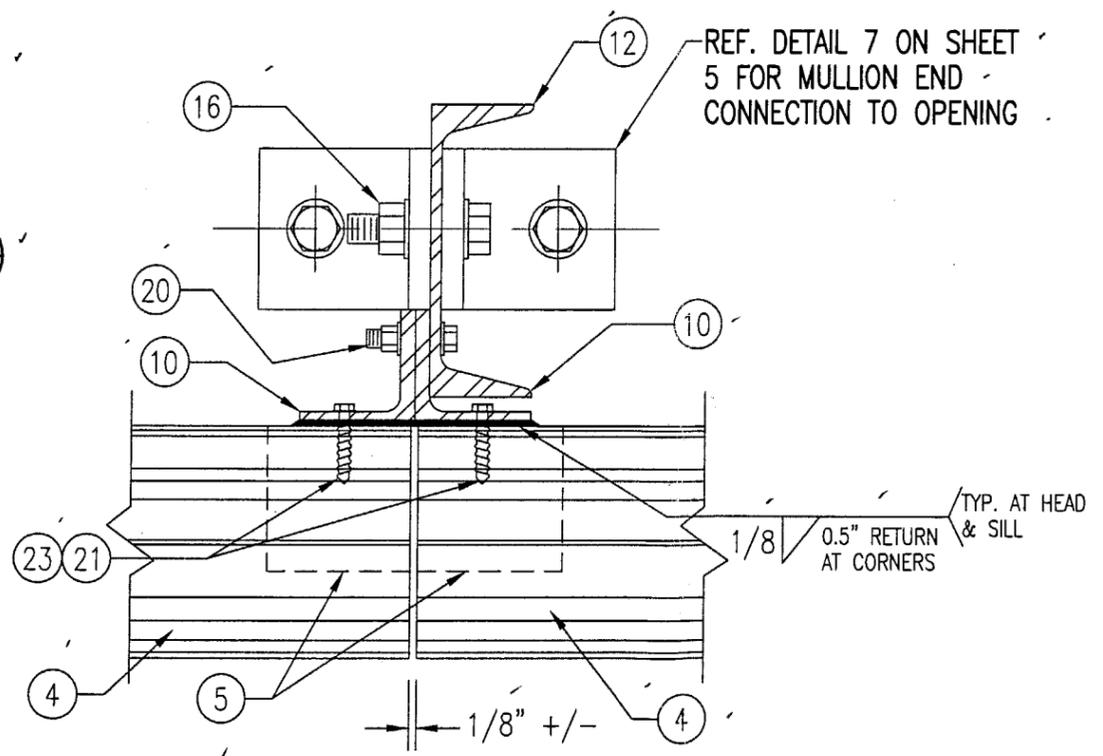

04/29/09
Candido F. Font PE.
Sr. Product Control Examiner
NOA No 04-0204.04
Expiration Date: July 27, 2008
Approval: Date: April 29, 2004



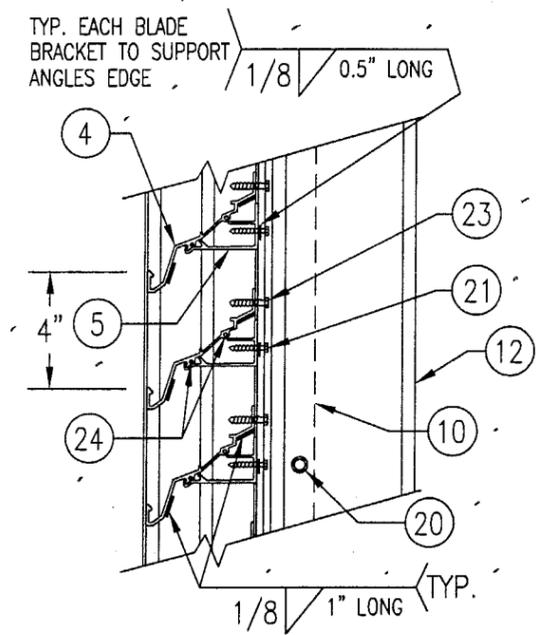
SECTION **B1**
SCALE: 1"=1'-0"
ARCHITECTURAL LOUVER



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

MIN. 2X8 P.T.
DOUBLE 2X4
WOOD BUCK
BY OTHERS

DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLOT: 1=12	DATE: 11/18/03
NO.	REVISION DESCRIPTION

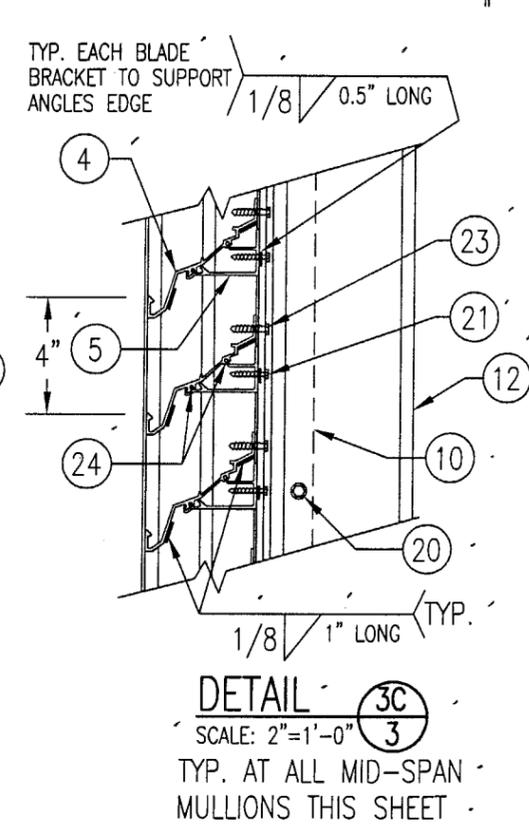
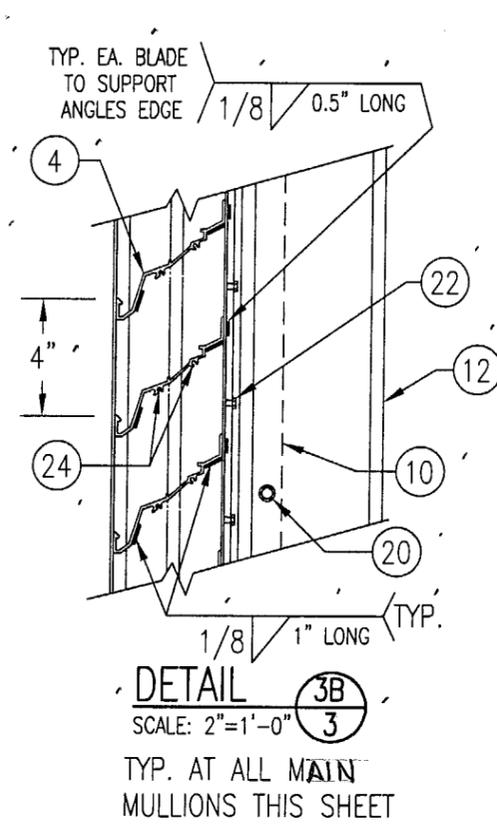
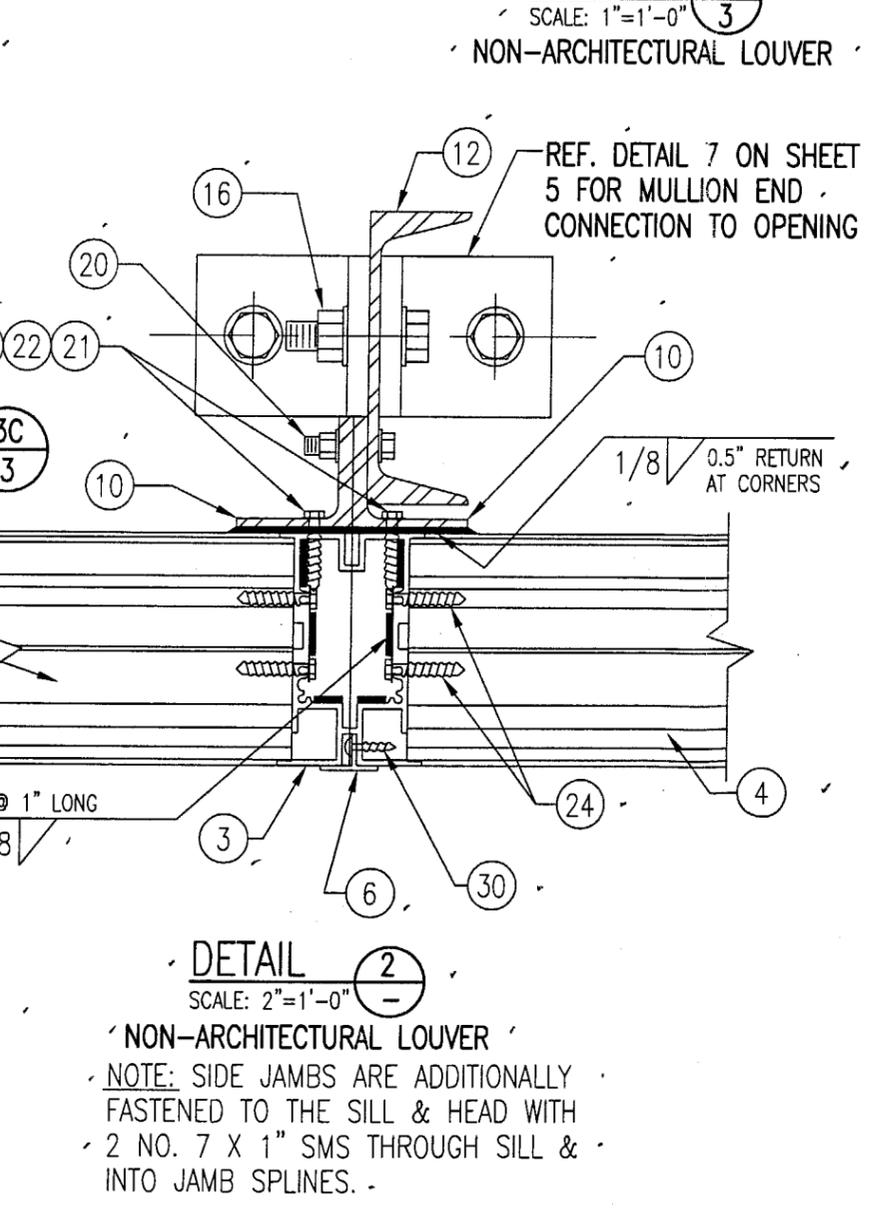
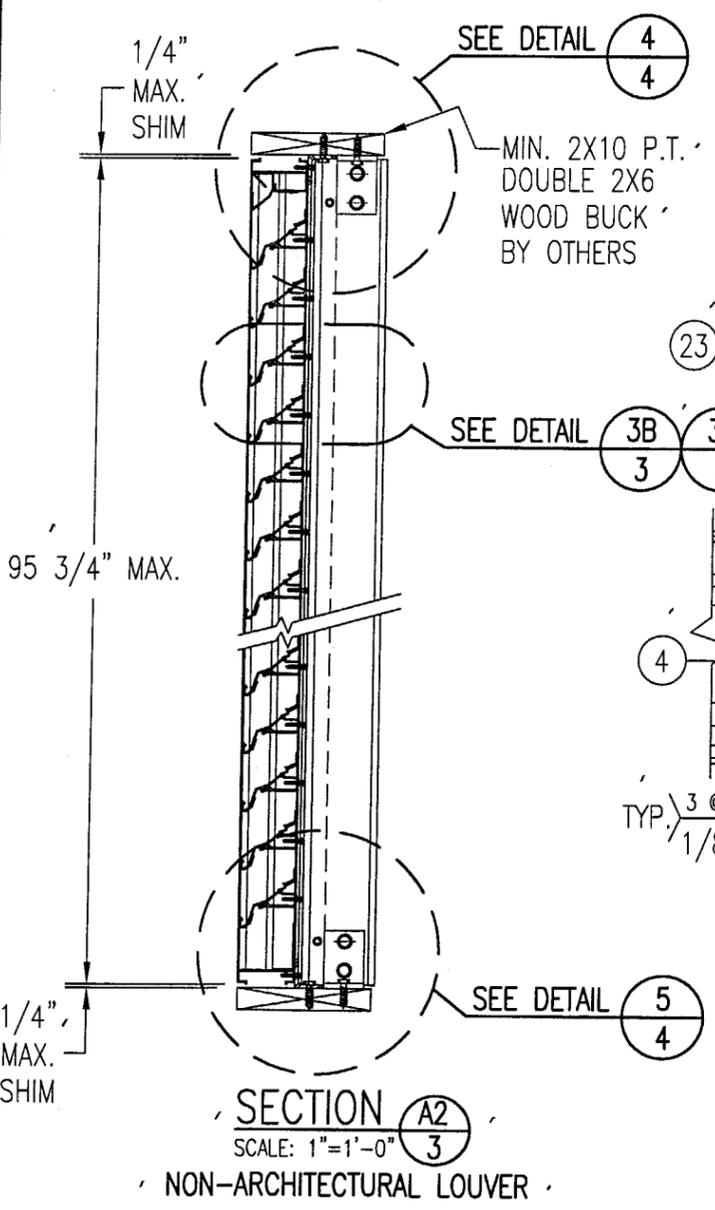
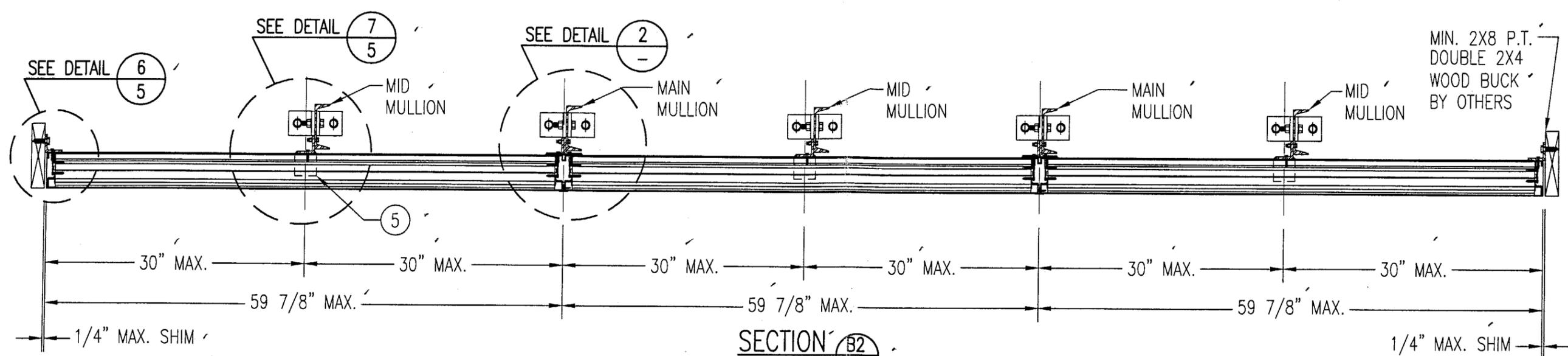
DRAWING TITLE
MODEL X4HW 4" LOUVER SYSTEM

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
8895 N. MILITARY TRAIL, SUITE C-204
PALM BEACH GARDENS, FL 33410
PHONE: 561-775-4902 FAX: 561-775-4903

MANUFACTURER
CESCO PRODUCTS
7435 INDUSTRIAL ROAD
FLORENCE, KY 41042
859-647-2299

CERTIFICATION FEB 02 2004	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1263	REV.
SHEET NO. 2	OF 7

Approved as complying with the
Florida Building Code
Date **09/29/04**
NOAH **04-0204-04**
Miami Date Product Control
Division



MIN. 2X8 P.T.
DOUBLE 2X4
WOOD BUCK
BY OTHERS

DRAWN BY:	K.P.S.	CHECKED BY:	W.S.
PLOT:	1=12	DATE:	11/18/03
DATE			
BY			
REVISION DESCRIPTION			
NO.			

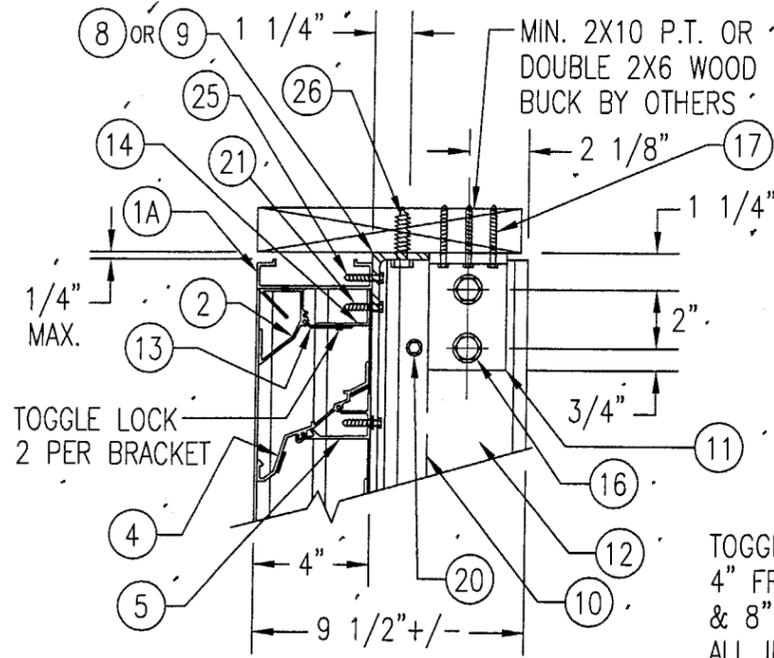
DRAWING TITLE
MODEL X4HW 4" LOUVER SYSTEM

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
8895 N. MILITARY TRAIL, SUITE C-204
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7435 INDUSTRIAL ROAD
FLORENCE, KY 41042
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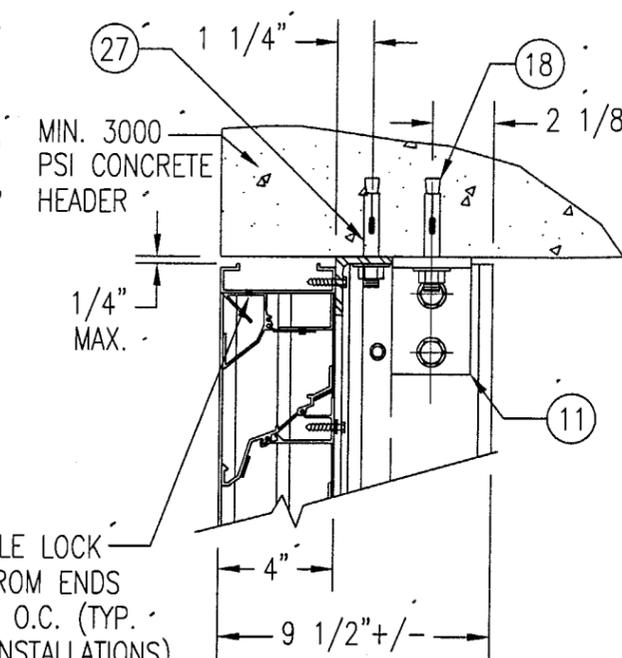
Approved as complying with the
Florida Building Code
Date 04/29/04
NOA# 04-0204.04
Miami Date Permitting Control
Division
By

CERTIFICATION	FEB 02 2004	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO.	1263	REV.
SHEET NO.	3	OF 7



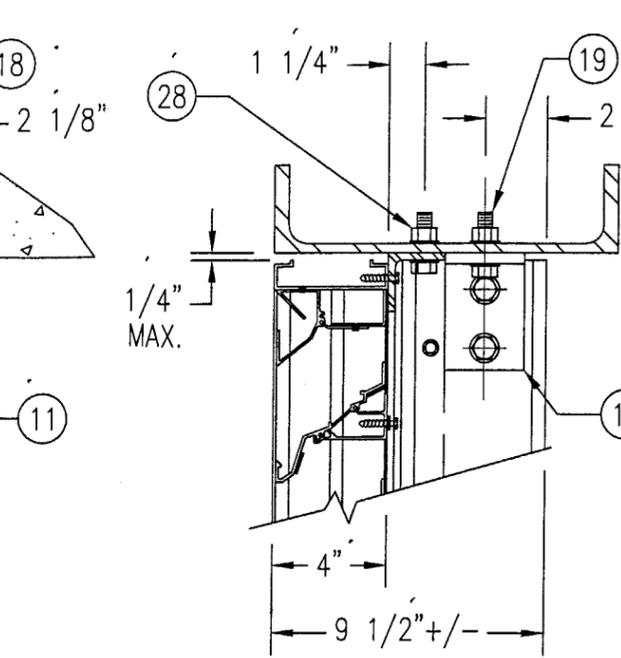
WOOD FRAMED OPENING

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.



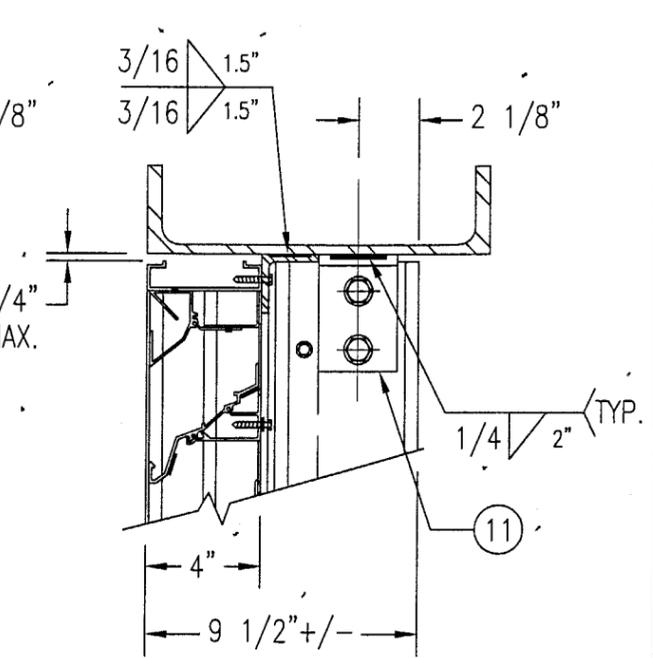
CONCRETE HEAD

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



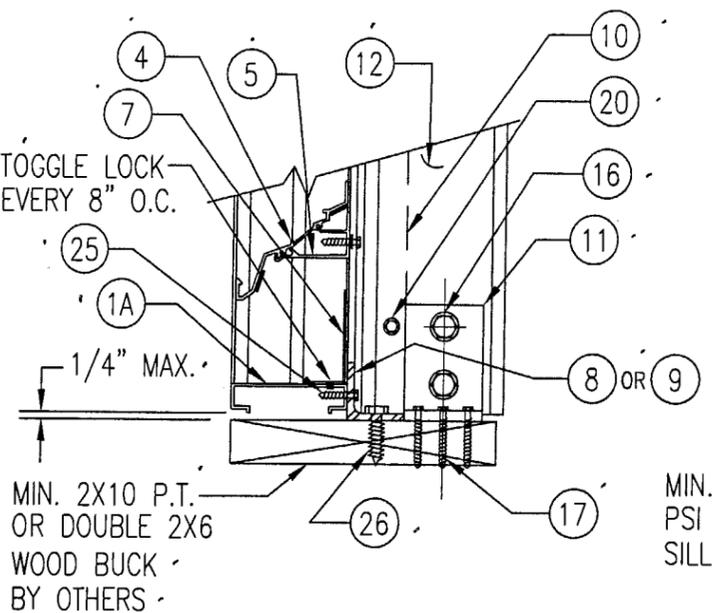
STEEL FRAME OPENING (BOLTED)

SEE "WOOD OPENING" FOR DETAIL NOT SHOWN.



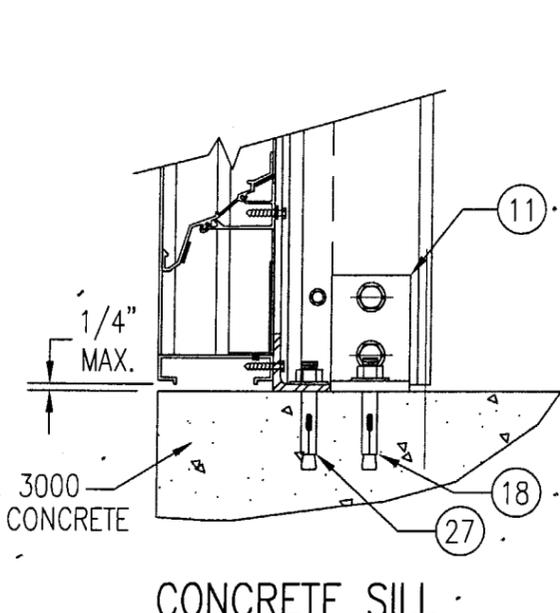
STEEL FRAME OPENING (WELDED)

SEE "WOOD OPENING" FOR DETAIL NOT SHOWN.



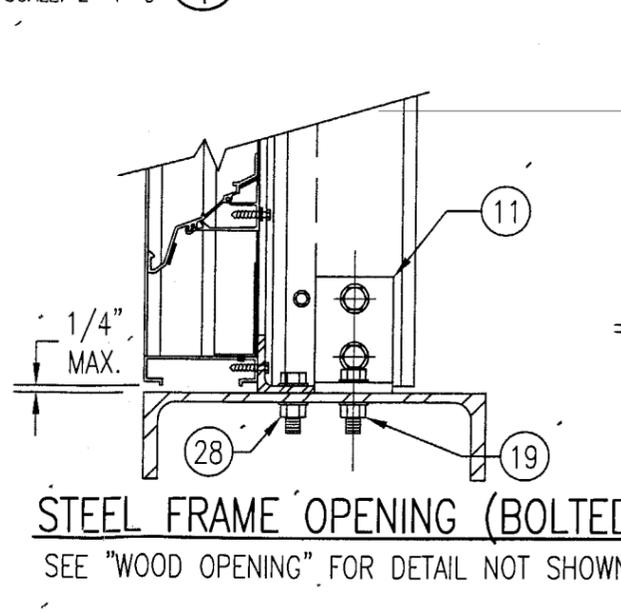
WOOD FRAMED OPENING

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



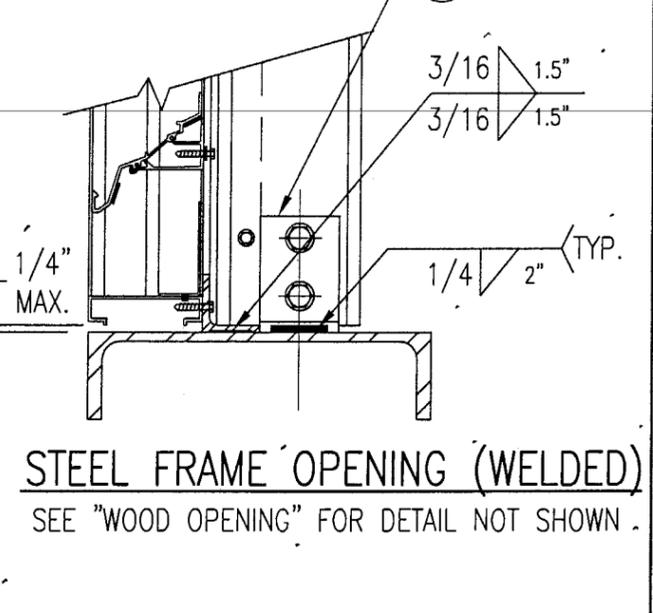
CONCRETE SILL

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



STEEL FRAME OPENING (BOLTED)

SEE "WOOD OPENING" FOR DETAIL NOT SHOWN.



STEEL FRAME OPENING (WELDED)

SEE "WOOD OPENING" FOR DETAIL NOT SHOWN.

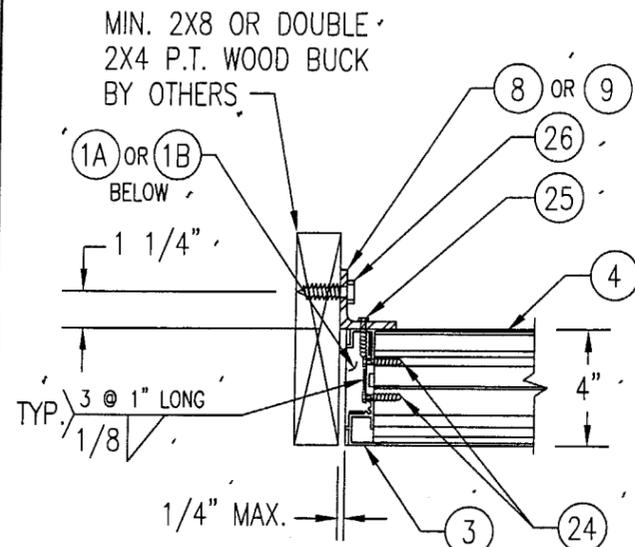
DETAIL 4
 SCALE: 2"=1'-0"

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

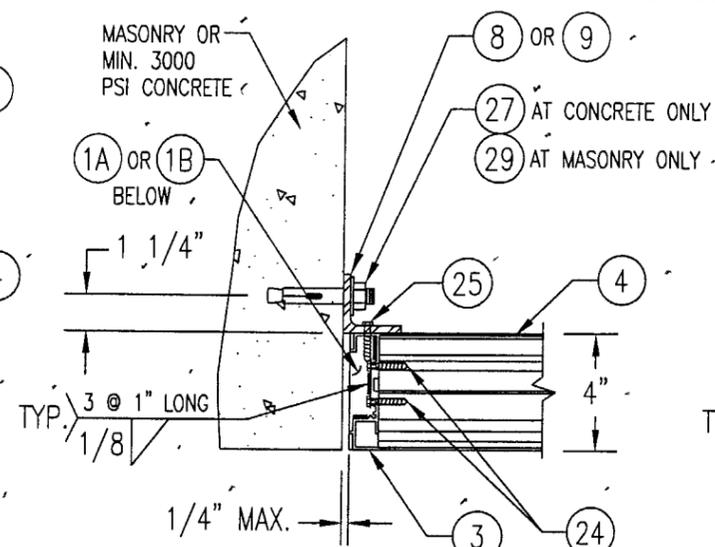
MASONRY MAY ONLY BE USED AT SIDES OF LOUVER PANELS & MAY NOT BE USED AT THE HEAD OR SILL.

Approved as complying with the Florida Building Code
 Date: 04/29/04
 NOA# 04-0204.04
 Miami Date Product Control
 Division: [Signature]

DRAWN BY: K.P.S.		CHECKED BY: W.W.S.	
PLOT: 1=6		DATE: 11/18/03	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE: MODEL X4HW 4" LOUVER SYSTEM			
CONSULTANTS		MANUFACTURER	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.		CESCO PRODUCTS	
8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903		7435 INDUSTRIAL ROAD FLORENCE, KY 41042 859-647-2299	
CERTIFICATION		P.E.	
FEB 02 2004		WARRREN W. SCHAEFER, P.E.	
DRAWING NO. 1263		REV.	
SHEET NO. 4 OF 7			

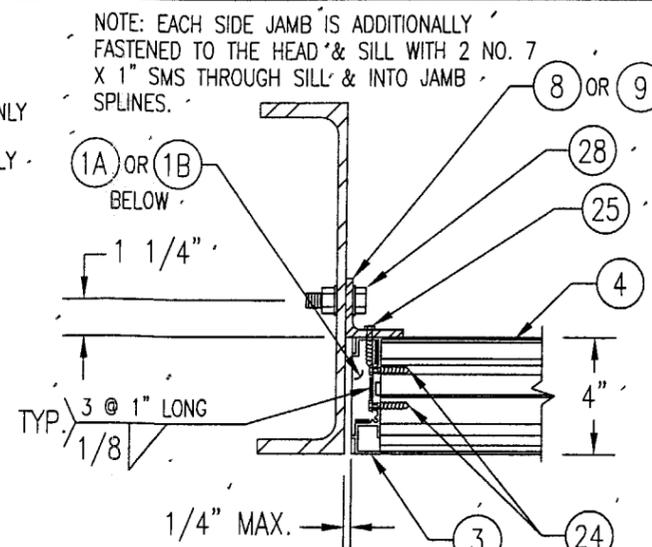


WOOD FRAMED OPENING



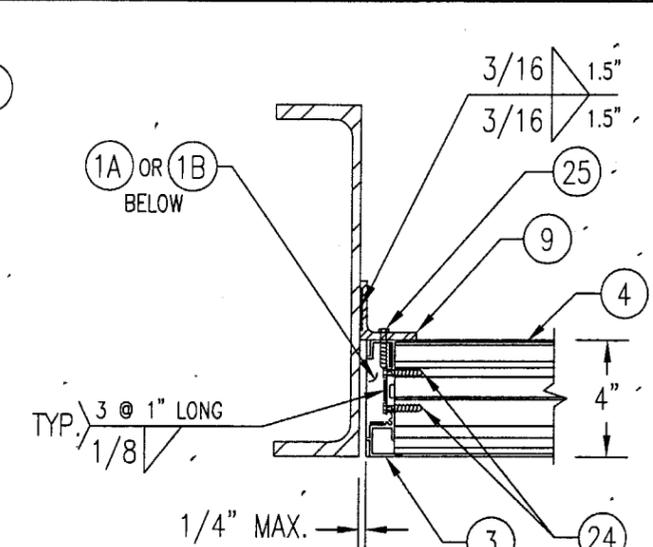
CONCRETE/MASONRY OPENING

(MASONRY ACCEPTABLE AT SIDES ONLY AND MAY NOT BE USED AT HEAD OR SILL)

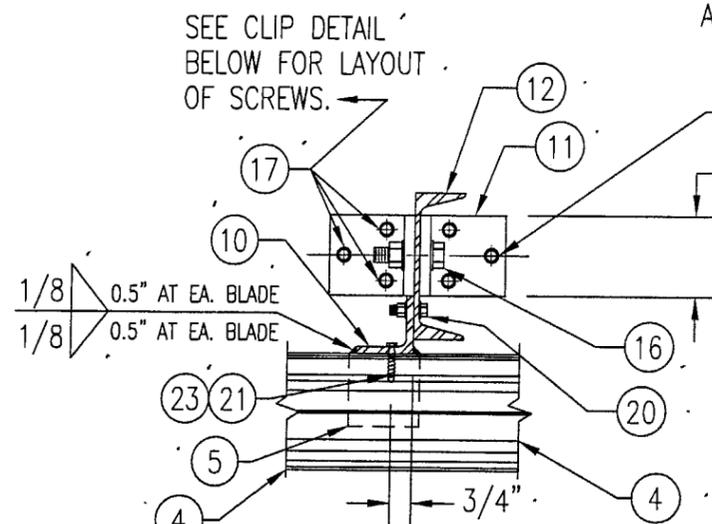


STEEL FRAME OPENING (BOLTED)

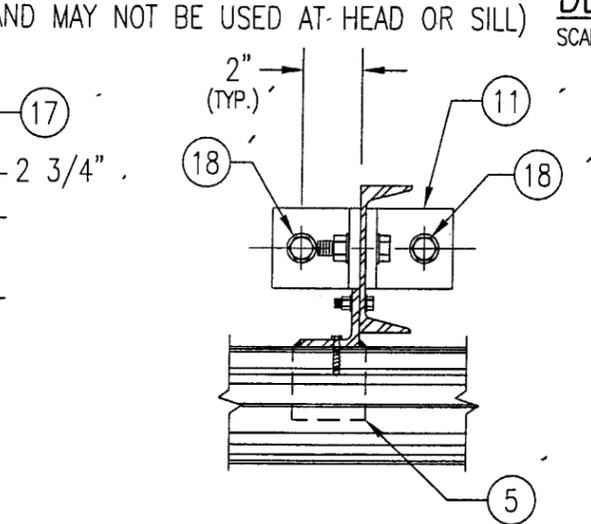
NOTE: EACH SIDE JAMB IS ADDITIONALLY FASTENED TO THE HEAD & SILL WITH 2 NO. 7 X 1" SMS THROUGH SILL & INTO JAMB SPLINES.



STEEL FRAME OPENING (WELDED)

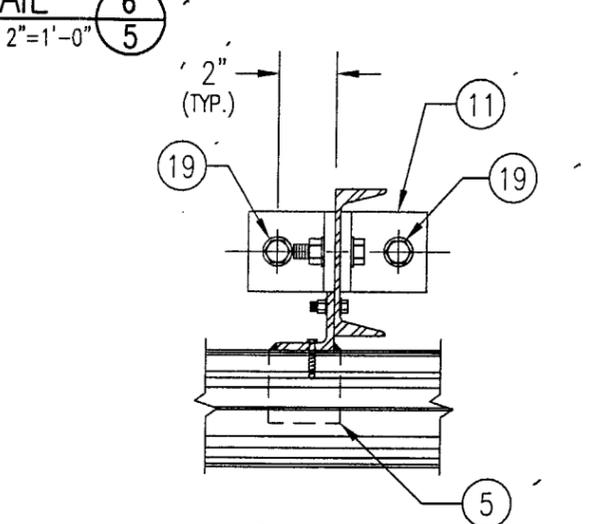


WOOD FRAMED OPENING



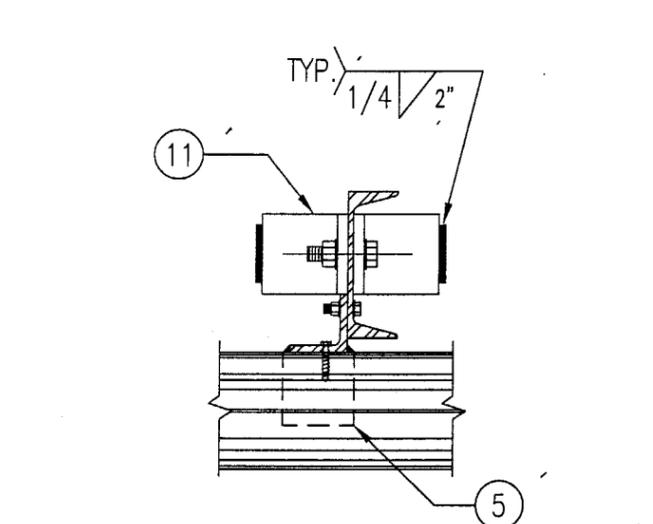
CONCRETE SILL & HEAD

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



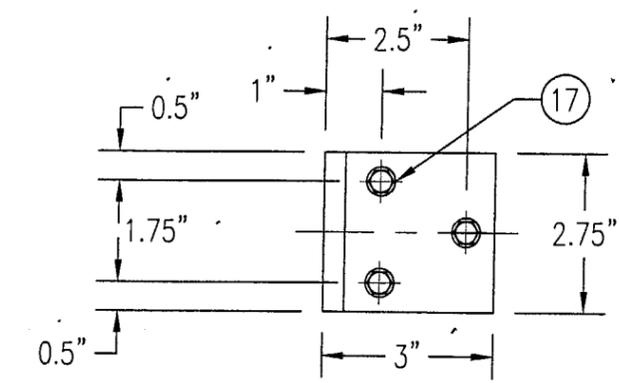
STEEL FRAME OPENING (BOLTED)

SEE "WOOD OPENING" FOR DETAIL NOT SHOWN



STEEL FRAME OPENING (WELDED)

SEE "WOOD OPENING" FOR DETAIL NOT SHOWN



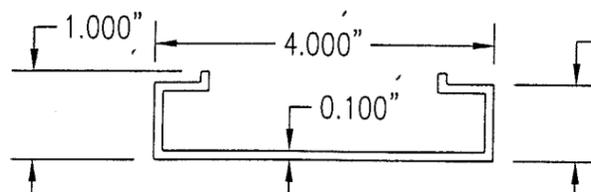
MULLION CLIP DETAIL @ WOOD INSTALLATION

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

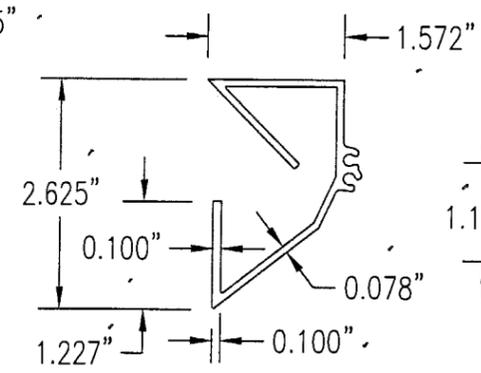
DETAIL 7/5 SCALE: 2"=1'-0"

Complying with the Florida Building Code
 Date: 09/29/04
 NOAH: 04-0204-04
 Miami Dade Product Control
 Division: [Signature]
 By: [Signature]

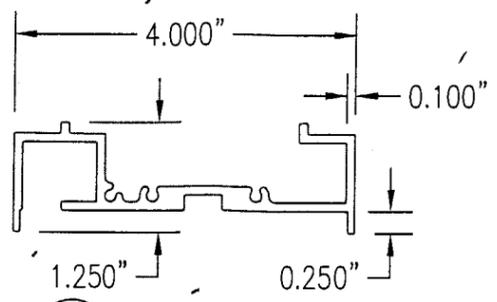
DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLOT: 1=6	DATE: 11/18/03
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE MODEL X4HW 4" LOUVER SYSTEM	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.	
MANUFACTURER CESCO PRODUCTS	
8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	
9895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	
CERTIFICATION FEB 02 2004	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1263	REV.
SHEET NO. 5	OF 7



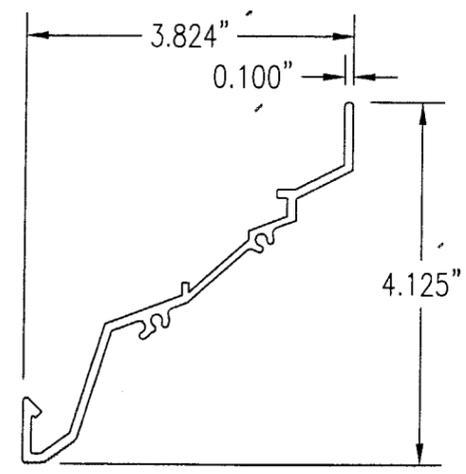
1A STANDARD HEADER & SILL JAMB
6063-T5 ALUMINUM
SCALE: 1/2 FULL



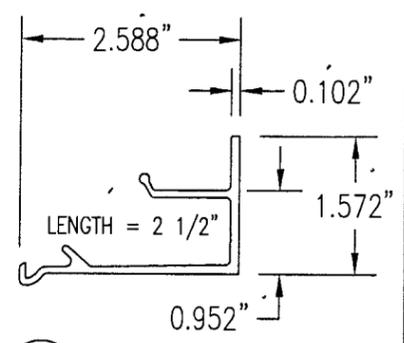
2 PARTIAL BLADE
6063-T5 ALUMINUM
SCALE: 1/2 FULL



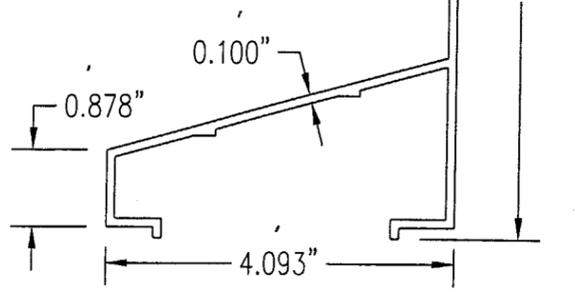
3 SIDE JAMB
6063-T5 ALUMINUM
SCALE: 1/2 FULL



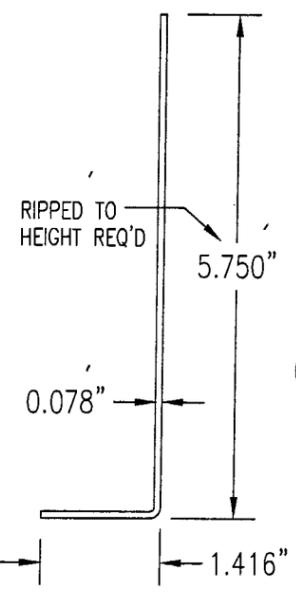
4 LOUVER BLADE
6063-T5 ALUMINUM
SCALE: 1/2 FULL



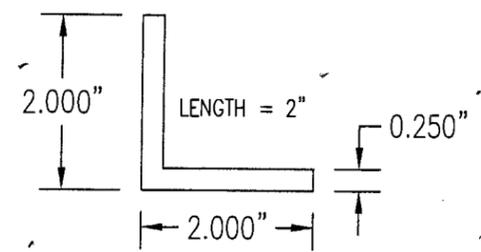
5 BLADE BRACE
6063-T5 ALUMINUM
SCALE: 1/2 FULL



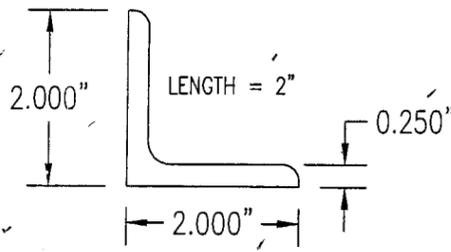
1B OPTIONAL SLOPED SILL
6063-T5 ALUMINUM
SCALE: 1/2 FULL



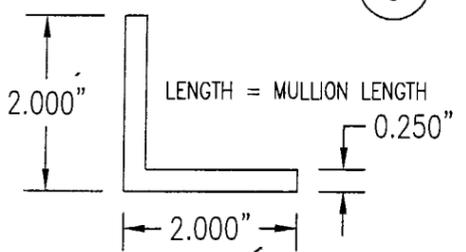
7 SILL ANGLE
6063-T5 ALUMINUM
SCALE: 1/2 FULL



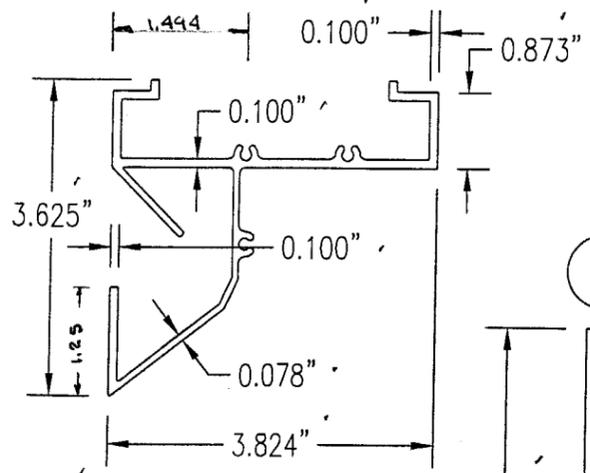
8 CONNECTION ANGLE
6063-T5 ALUMINUM
SCALE: 1/2 FULL



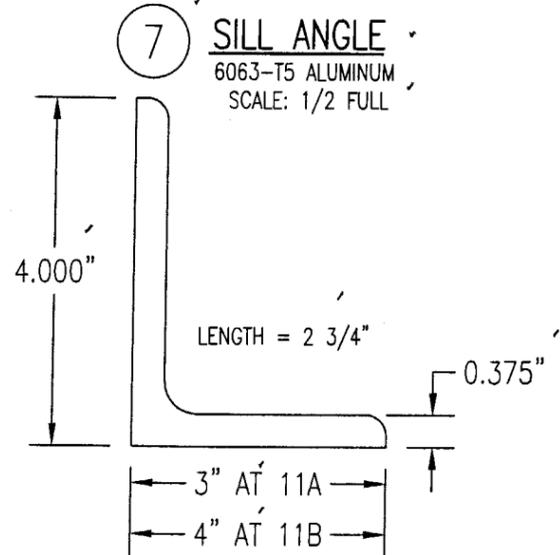
9 CONNECTION ANGLE
A36 STEEL
SCALE: 1/2 FULL



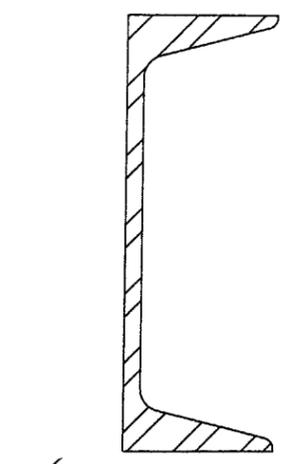
10 MULLION ANGLE
6063-T5 ALUMINUM
SCALE: 1/2 FULL



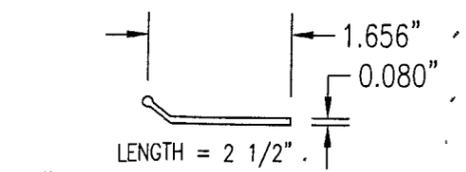
1C OPTIONAL 1-PIECE HEADER
6063-T5 ALUMINUM
SCALE: 1/2 FULL



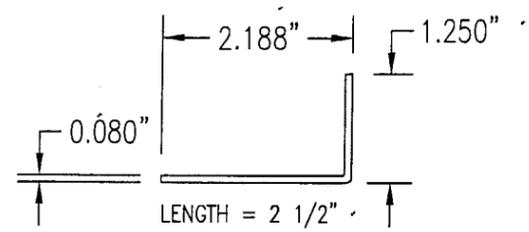
11A 11B MULLION END CONNECTION ANGLE
A36 STEEL
SCALE: 1/2 FULL



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

Approved as complying with the Florida Building Code
Date: 09/29/04
NOA# 04-0204.04
Miami Code Product Control
By: [Signature]

DRAWN BY: K.P.S.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 11/18/03	
NO.	REVISION DESCRIPTION	DATE	BY
DRAWING TITLE: MODEL X4HW 4" LOUVER SYSTEM			
MANUFACTURER: CESCO PRODUCTS 7435 INDUSTRIAL ROAD FLORENCE, KY 41042 859-647-2299			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903			
CERTIFICATION: FEB 02 2004			
DRAWING NO. 1263		REV.	
SHEET NO. 6		OF 7	

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:

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.

Approved as complying with the Florida Building Code
 Date 09/29/04
 NOA# 04-0204.04
 Miami Dade Product Control
 Division [Signature]
 By [Signature]

DRAWN BY: K.P.S. CHECKED BY: W.W.S.
 PLOT: 1=1 DATE: 11/18/03

NO.	REVISION DESCRIPTION	DATE	BY

MODEL X4HW 4" LOUVER SYSTEM

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
 8895 N. MILITARY TRAIL, SUITE C-204
 PALM BEACH GARDENS, FL 33410
 PHONE: 561-775-4902 FAX: 561-775-4903

MANUFACTURER
CESCO PRODUCTS
 7435 INDUSTRIAL ROAD
 FLORENCE, KY 41042
 859-647-2299

CERTIFICATION
FEB 02 2004
 WARREN W. SCHAEFER, P.E.
 P.E. NO. 44135

DRAWING NO. **1263** REV.
 SHEET NO. **7** OF **7**