



**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)

**NCA Manufacturing, Inc.
1036 South Jupiter Road.
Garland TX 75042**

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: MDH-4 Architectural & Non-Architectural Louver System.

APPROVAL DOCUMENT: Drawing No.1196, titled "MDH-4 Architectural & Non-Architectural Louver System" dated 12/05/02 with no revisions on, 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 consists of this page 1 as well as approval document mentioned above.

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



**NOA No: 02-1216.13
Expiration Date: July 27, 2003
Approval Date: January 16, 2003
Page 1**

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED
(For File ONLY. Not part of NOA)

A. DRAWINGS

1. Drawing No.1196, titled "MDH-4 Architectural & Non-Architectural Louver System" dated 05/02/02 with last revision on 08/15/02, prepared by W.W. Schaefer Engineering & Consulting, PA, signed and sealed by W. W. Schaefer PE.

B. TESTS

1. Test report on Large Missile Impact Resistant Test per PA 201, Air Pressure Test per PA 202 and Cyclic Pressure Test per PA 203 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 per PA 201, Air Pressure Test per PA 202 and Cyclic Pressure Test per PA 203 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. CALCULATION

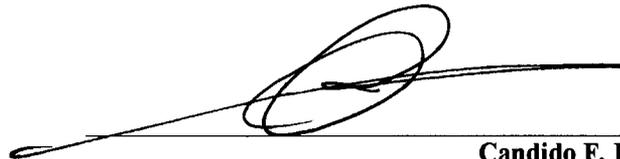
1. Allowable Load Calculations, dated 11/12/99, pages 1 to 3 of 3, prepared by W. W. Schaefer Engineering & Consulting, PA, signed and sealed by W. W. Schaefer, PE.
2. Allowable Load Calculations, dated 04/14/00, pages 1 to 6 of 6, prepared by W. W. Schaefer Engineering & Consulting, PA, signed and sealed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

D. STATEMENTS.

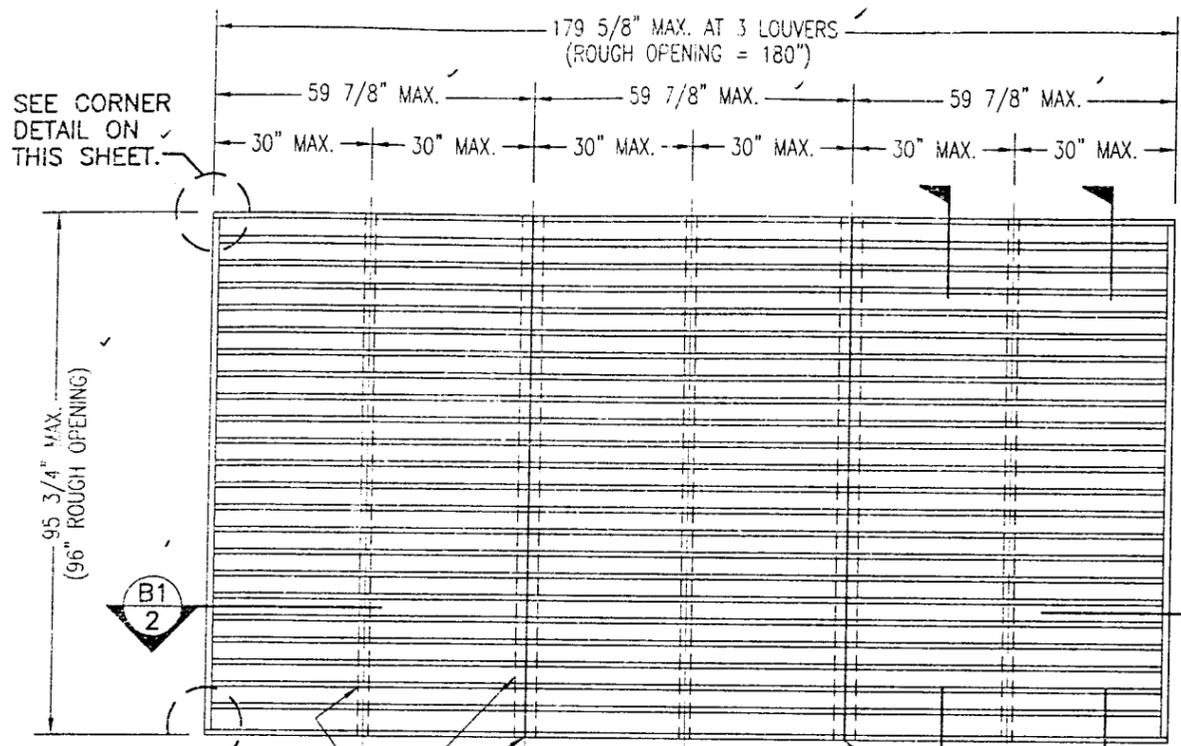
1. Letter of Code Compliance issued by W. W. Schaefer, PE, on 11/15/99, signed and sealed by W. W. Schaefer, PE.
2. Test Compliance letter issued by Hurricane Test Laboratory Inc, on 12/08/99, signed and sealed by V. J. Abraham, PE.
3. No Financial Interest letter issued by W. W. Schaefer, PA, on 11/15/99 signed and sealed by W. W. Schaefer, PE.

E. MATERIAL CERTIFICATION

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.



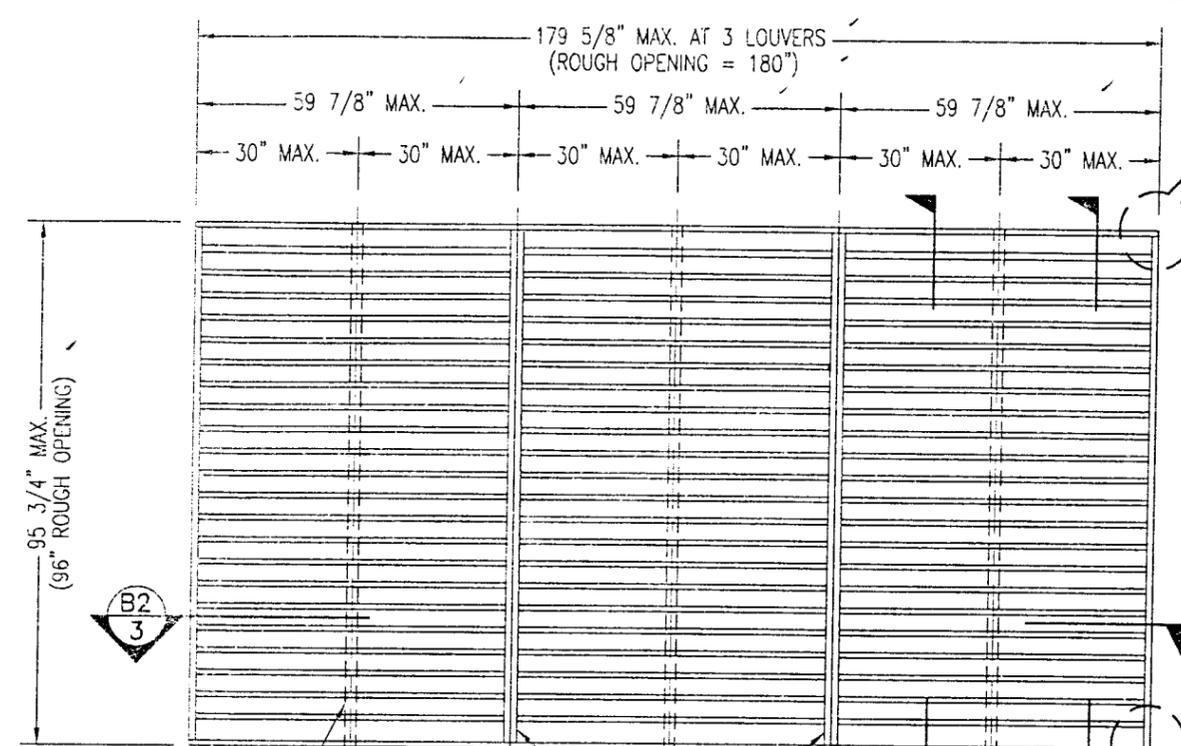
Candido F. Font PE.
Sr. Product Control Examiner
NOA No 02-1216.13
Expiration Date: July 27, 2003
Approval: Date: January 16, 2003



**EXTERIOR ELEVATION
ARCHITECTURAL 4" 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.



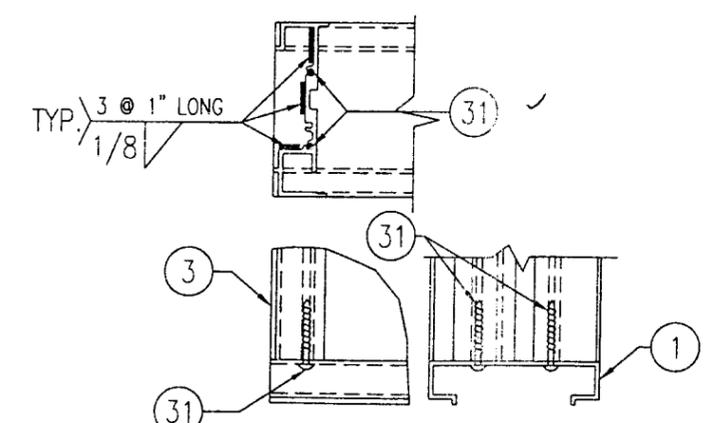
**EXTERIOR ELEVATION
NON-ARCHITECTURAL 4" LOUVER**

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.



CORNER DETAIL

SEE CORNER DETAIL ON THIS SHEET.
HIDDEN LINES ARE FOR SUPPORT ANGLES AT BACK SIDE OF LOUVERS.

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

SEE CORNER DETAIL ON THIS SHEET.

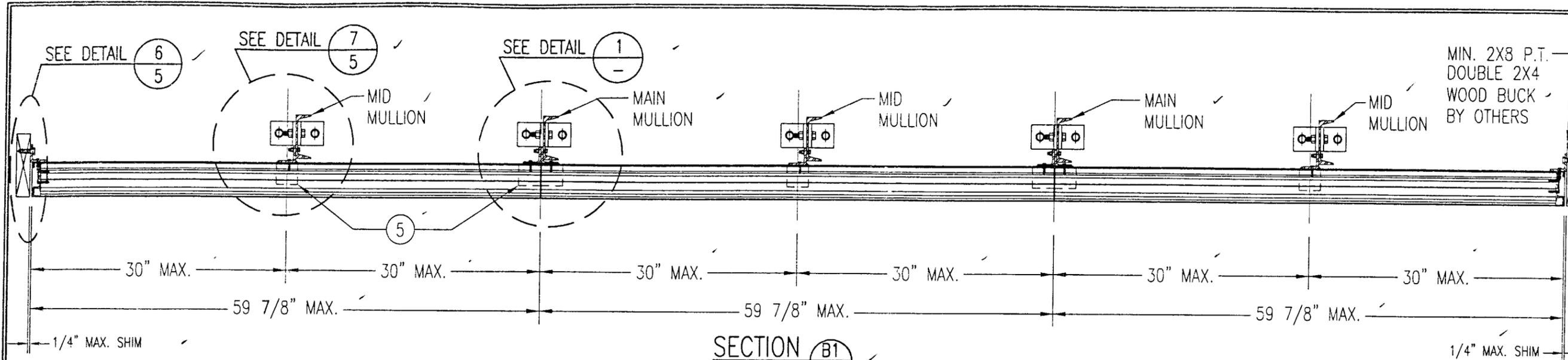
SEE CORNER DETAIL ON THIS SHEET.

GENERAL NOTES:

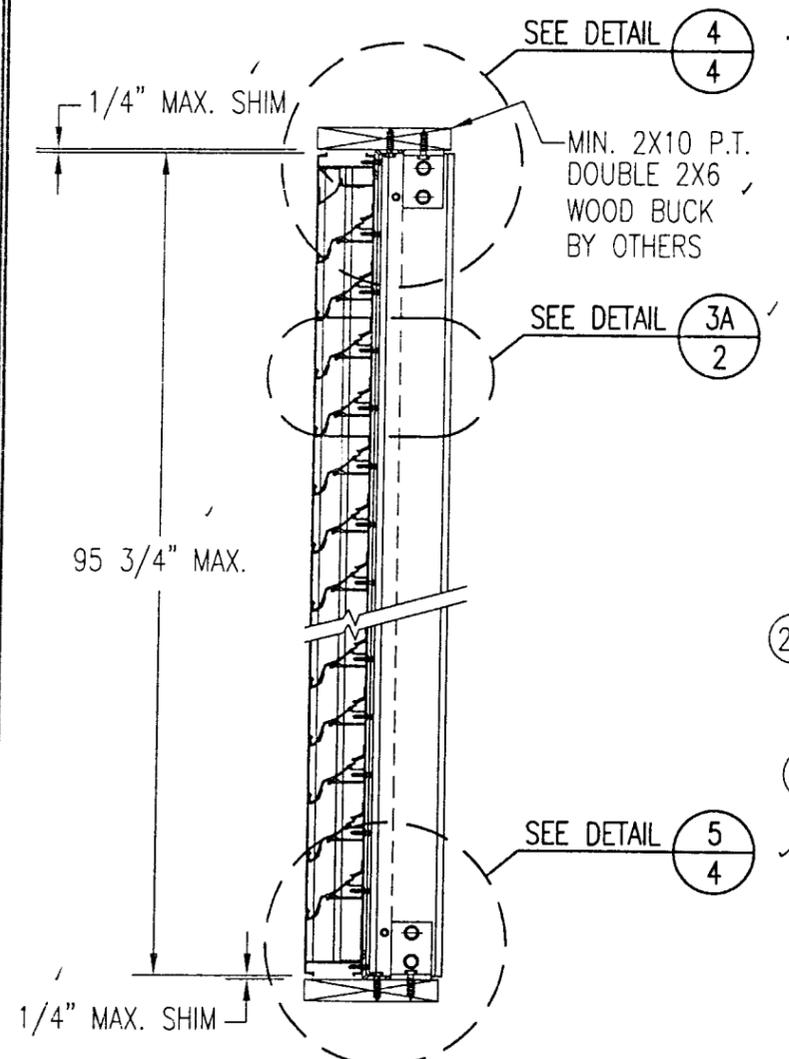
1. MAXIMUM ALLOWABLE INDIVIDUAL PANEL SIZE = 59 7/8" X 95 3/4"
2. MAXIMUM ASSEMBLY SIZE = UNLIMITED WIDTH, UP TO 95 3/4" HEIGHT.
3. ASSEMBLIES/SECTIONS MAY BE STACKED VERTICALLY PROVIDING A STRUCTURAL SUPPORT IS DESIGNED AND INSTALLED BY OTHERS TO SUPPORT ALL LOADS TRANSFERRED FROM THE LOUVER ASSEMBLY.
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.B.4 OF THE F.B.C. 2001
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 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 (F.B.C.) 2001
14. THIS PRODUCT HAS BEEN TESTED IN ACCORDANCE WITH FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT, STRUCTURAL & CYCLIC TESTING.

Approved as complying with the Florida Building Code
 Date: 01/16/03
 NOA: 02-12613
 Miami Dade Product Control
 Division
 By: [Signature]

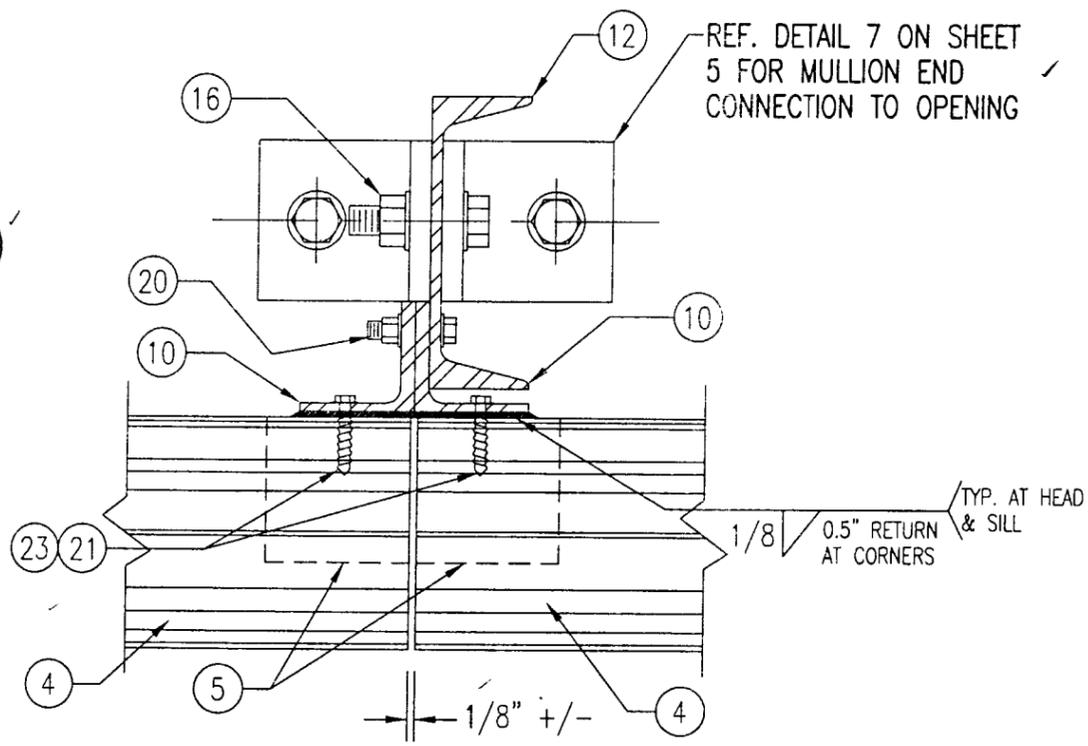
DRAWN BY: M.W.S.	CHECKED BY: W.W.S.
PLOT: 1-32	DATE: 12/05/02
NO.	REVISION DESCRIPTION
BY	DATE
DRAWING TITLE MDH-4 ARCHITECTURAL & NON-ARCHITECTURAL LOUVER SYSTEM	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 600 SANDTREE DRIVE, SUITE 203B PALM BEACH GARDENS, FL 33403 PHONE: 561-775-4902 FAX: 561-775-4903	MANUFACTURER NCA MANUFACTURING, INC. 1036 SOUTH JUPITER ROAD GARLAND, TX 75042 972-276-5002
CERTIFICATION DEC 09 2002 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	DRAWING NO. 1196
	REV. SHEET NO. 1 OF 7



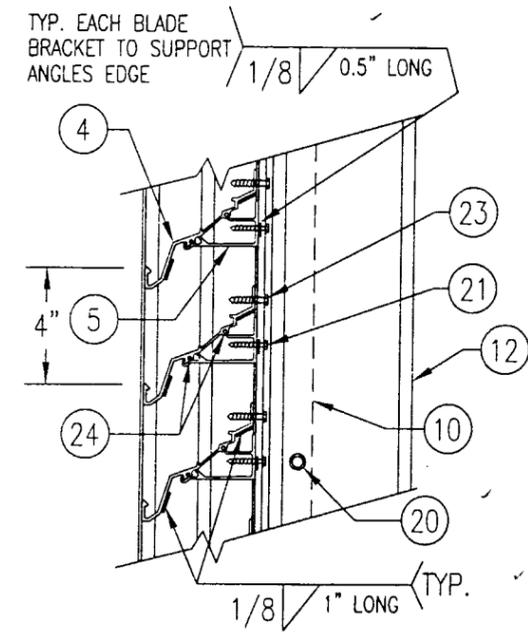
SECTION **B1**
SCALE: 1"=1'-0"
ARCHITECTURAL LOUVER



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



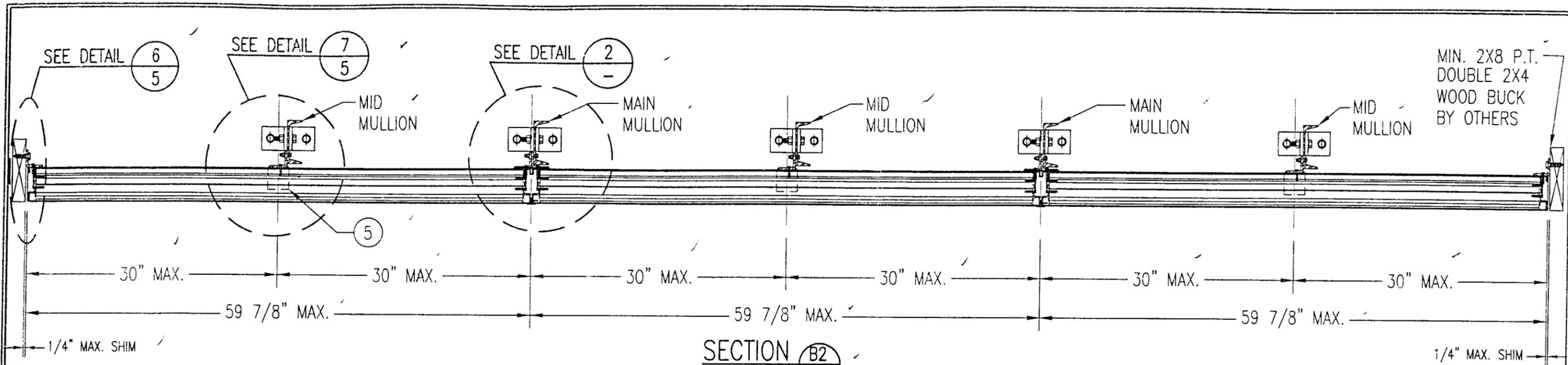
DETAIL **1**
SCALE: 1/3 FULL
ARCHITECTURAL LOUVER



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

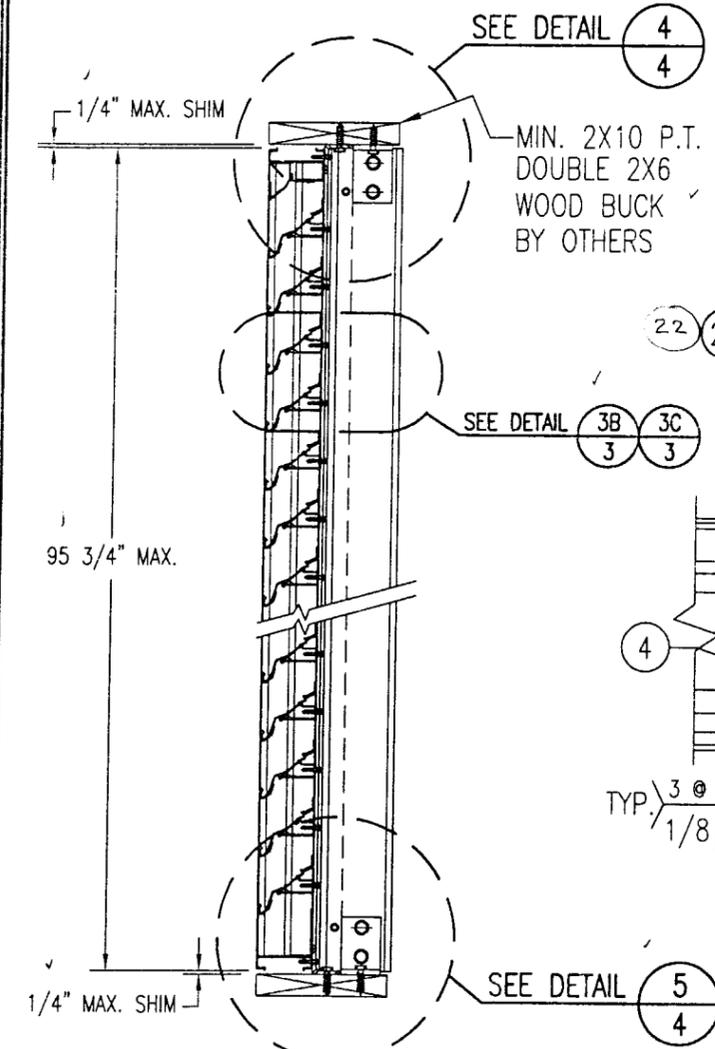
Approved as complying with the
Florida Building Code
Date 01/16/03
NOA# 02-121613
Miami Dade Product Control
Division
By [Signature]

DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1=12	DATE: 12/05/02
NO.	REVISION DESCRIPTION
BY	DATE
DRAWING TITLE MDH-4 ARCHITECTURAL & NON-ARCHITECTURAL LOUVER SYSTEM	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 600 SANDTREE DRIVE, SUITE 203B PALM BEACH GARDENS, FL 33403 PHONE: 561-775-4902 FAX: 561-775-4903	MANUFACTURER NCA MANUFACTURING, INC. 1036 SOUTH JUPITER ROAD GARLAND, TX 75042 972-276-5002
DATE DEC 09 2002	APPROVAL <u>[Signature]</u> WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1196	REV.
SHEET NO. 2	OF 7



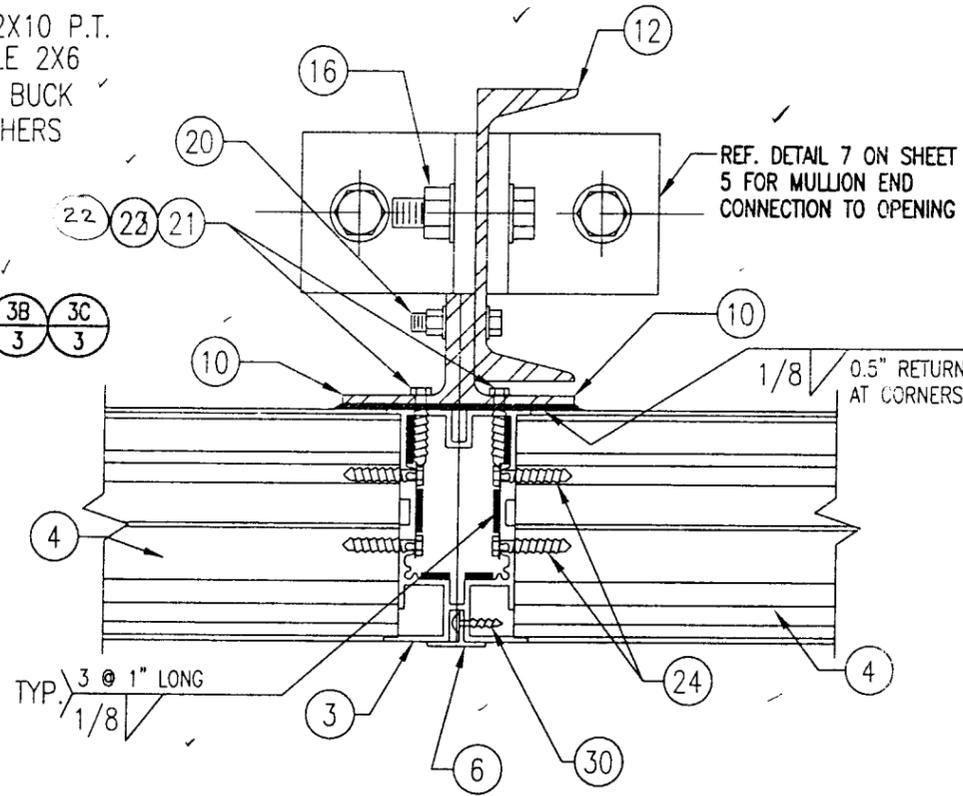
SECTION B2
SCALE: 1"=1'-0"
3

NON-ARCHITECTURAL LOUVER



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

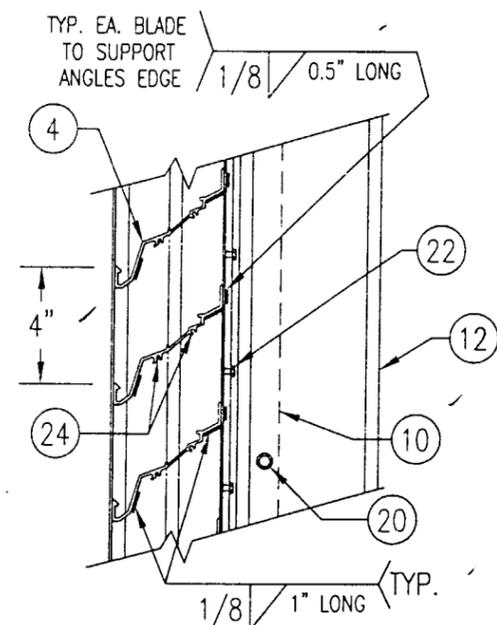
NON-ARCHITECTURAL LOUVER



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

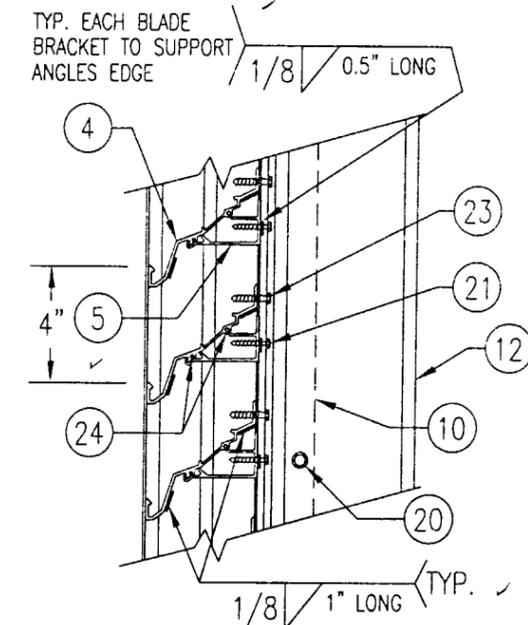
NON-ARCHITECTURAL LOUVER

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



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

TYP. AT MAIN MULLIONS THIS SHEET



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

TYP. AT ALL MID-SPAN MULLIONS THIS SHEET

DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1-12	DATE: 12/05/02
DATE	
BY	
REVISION DESCRIPTION	
NO.	

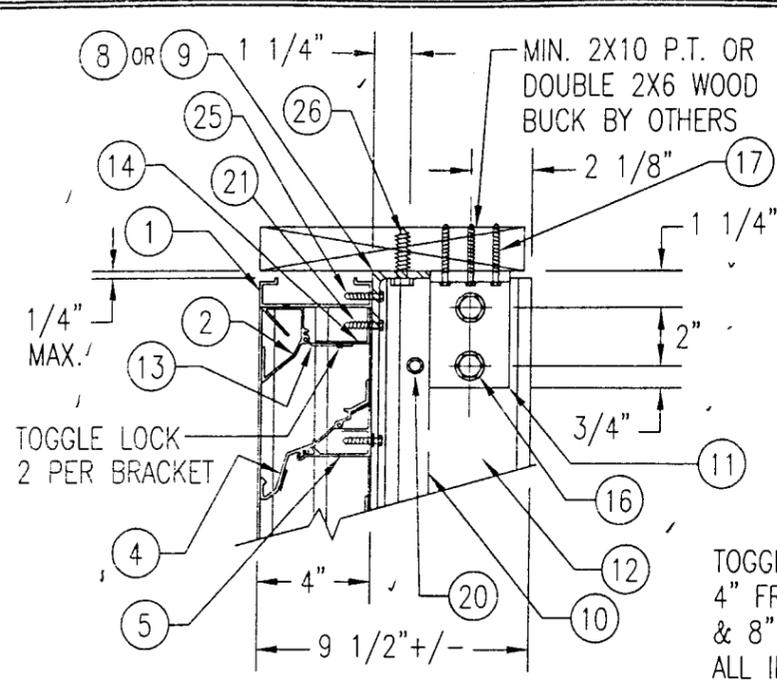
MDH-4 ARCHITECTURAL & NON-ARCHITECTURAL LOUVER SYSTEM
MANUFACTURER
NCA MANUFACTURING, INC.
1036 SOUTH JUPITER ROAD
GARLAND, TX 75042
972-276-5002

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
600 SANDTREE DRIVE, SUITE 2038
PALM BEACH GARDENS, FL 33403
PHONE: 561-775-4902 FAX: 561-775-4903

CERTIFICATION
DEC 09 2002
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

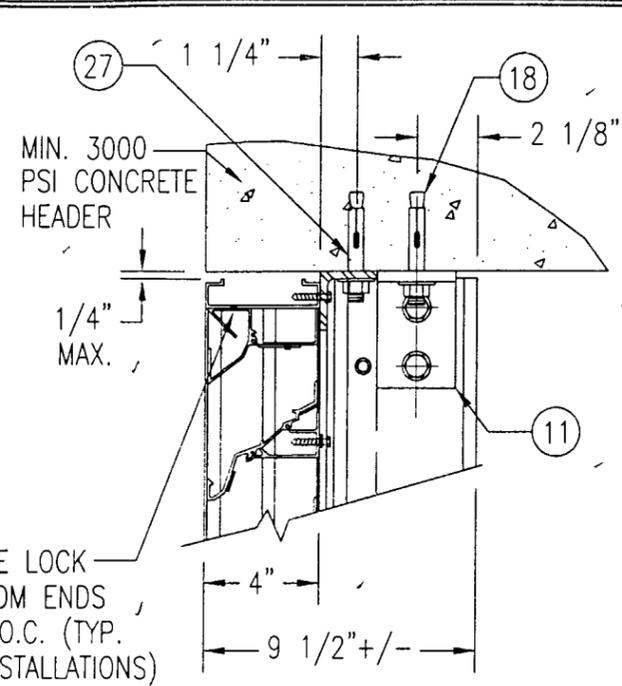
APPROVED AS COMPLYING WITH THE FLORIDA BUILDING CODE
DATE: 01/16/03
NGA: 02-1216.13
Miami Dade Product Control

DRAWING NO. 1196	REV.
SHEET NO. 3	OF 7



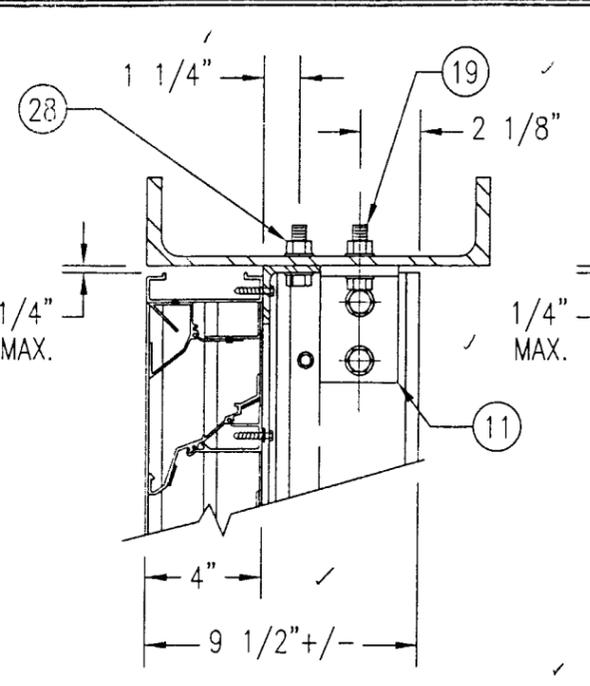
WOOD FRAMED OPENING

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



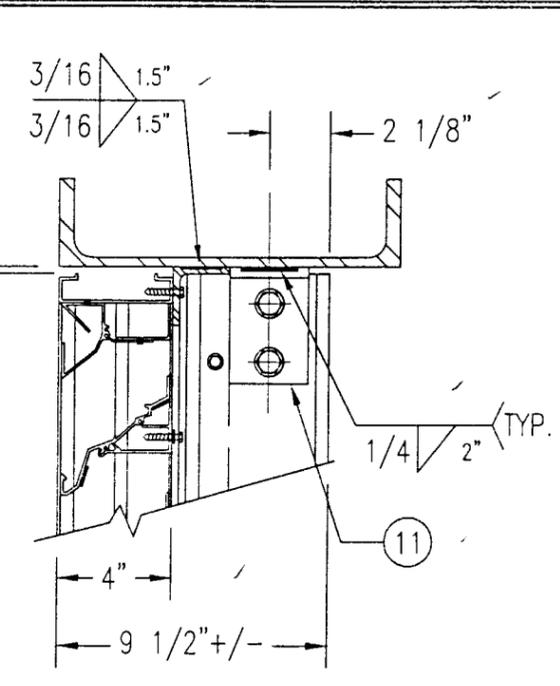
CONCRETE HEAD

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



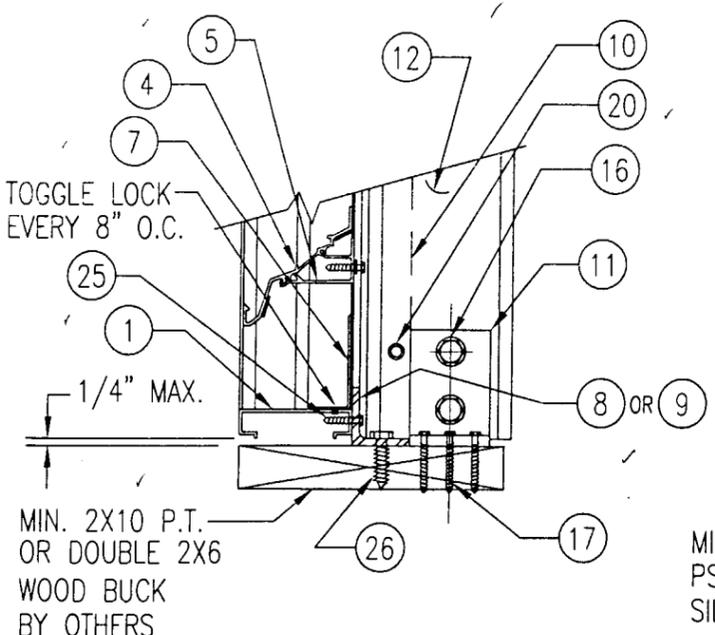
STEEL FRAME OPENING (BOLTED)

SEE "WOOD OPENING" FOR DETAIL NOT SHOWN



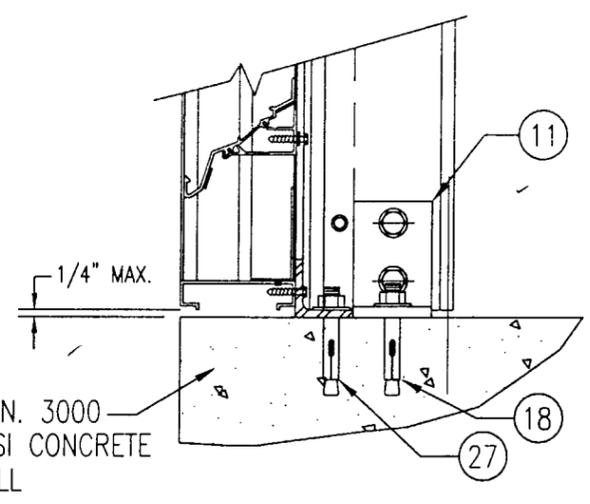
STEEL FRAME OPENING (WELDED)

SEE "WOOD OPENING" FOR DETAIL NOT SHOWN



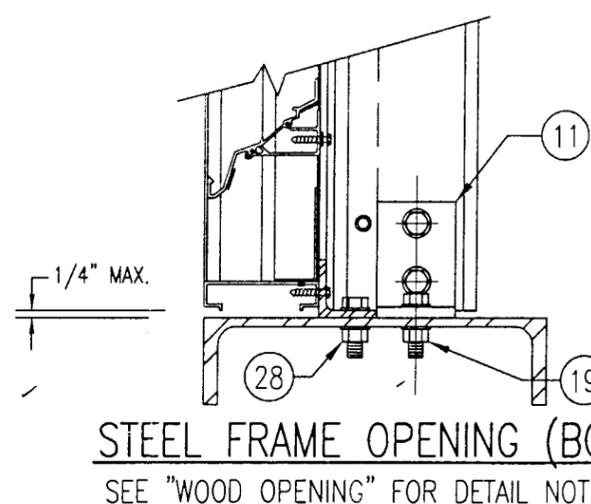
WOOD FRAMED OPENING

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



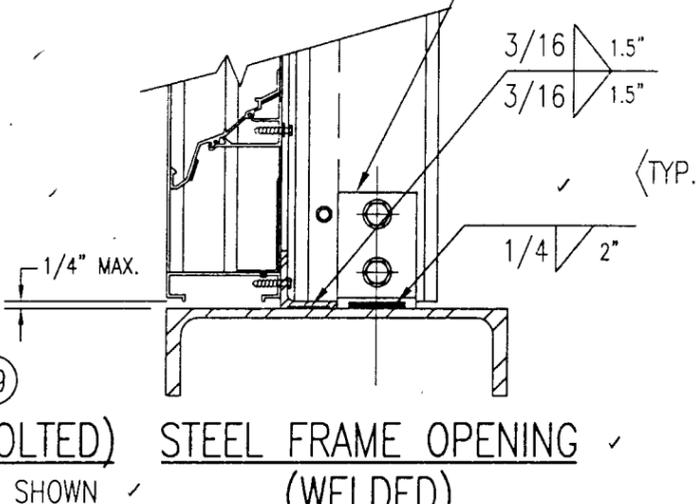
CONCRETE SILL

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

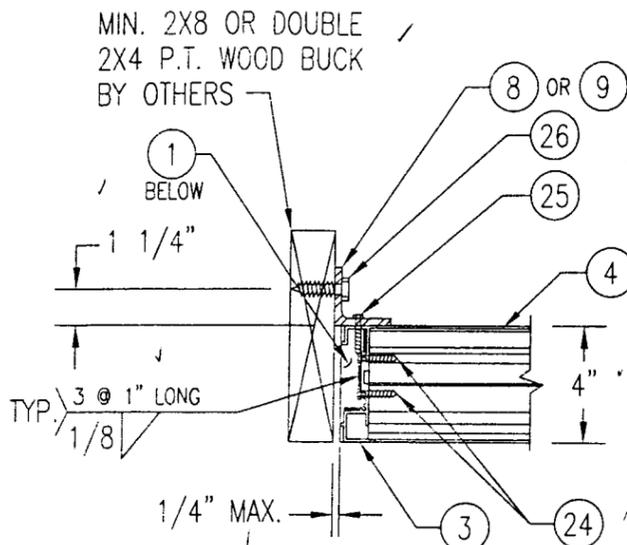
MASONRY MAY ONLY BE USED AT SIDES OF LOUVER PANELS & MAY NOT BE USED AT THE HEAD OR SILL.

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

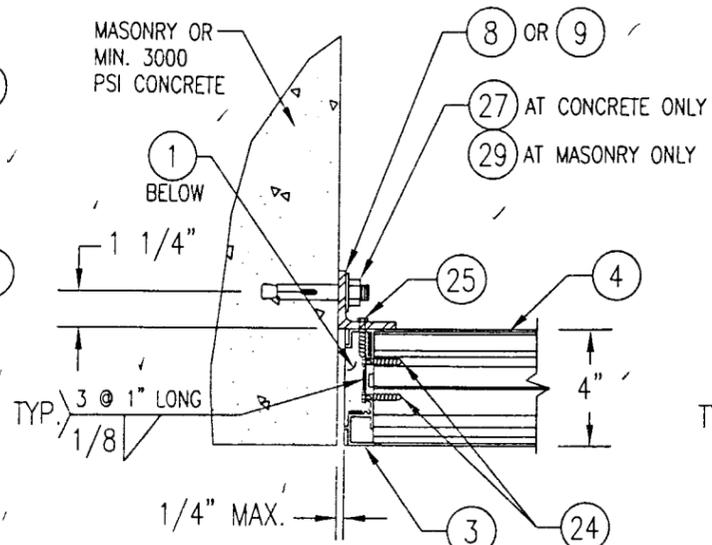
DETAIL 4
SCALE: 2"=1'-0"

Approved as complying with the Florida Building Code
Date: 01/16/03
NOA# 024216.13
Miami Dade Product Control Division
By: [Signature]

DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=6		DATE: 12/05/02	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE: MDH-4 ARCHITECTURAL & NON-ARCHITECTURAL LOUVER SYSTEM			
CONSULTANTS		MANUFACTURER	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.		NCA MANUFACTURING, INC.	
600 SANDTREE DRIVE, SUITE 203B PALM BEACH GARDENS, FL 33403 PHONE: 561-775-4902 FAX: 561-775-4903		1036 SOUTH JUPITER ROAD GARLAND, TX 75042 972-276-5002	
CERTIFICATION DEC 09 2002		WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1196		REV.	
SHEET NO. 4 OF 7			

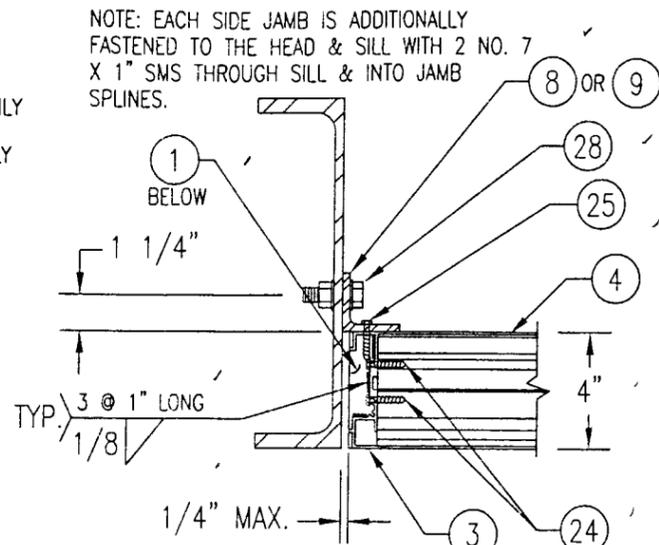


WOOD FRAMED OPENING

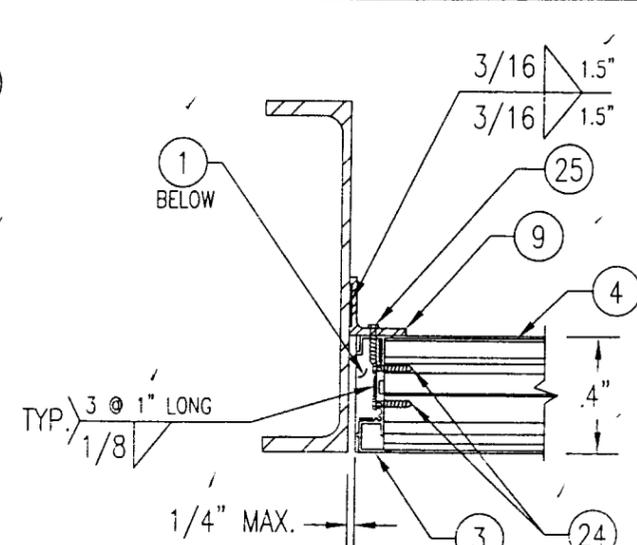


CONCRETE/MASONRY OPENING

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



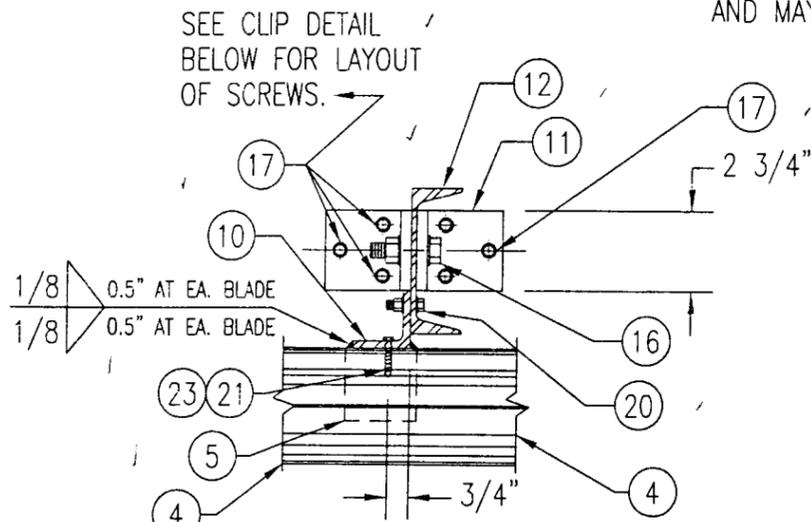
STEEL FRAME OPENING (BOLTED)



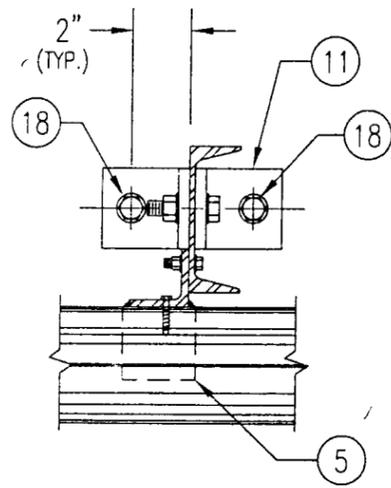
STEEL FRAME OPENING (WELDED)

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

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

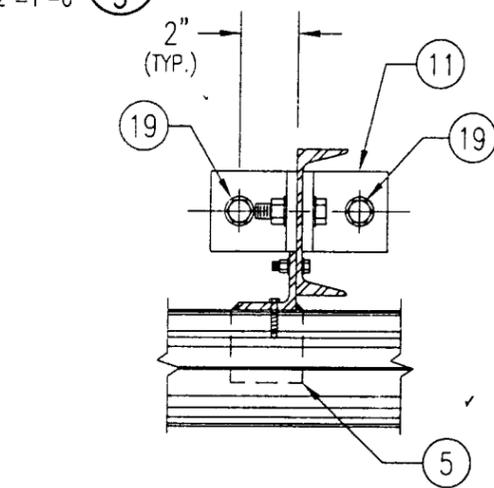


WOOD FRAMED OPENING



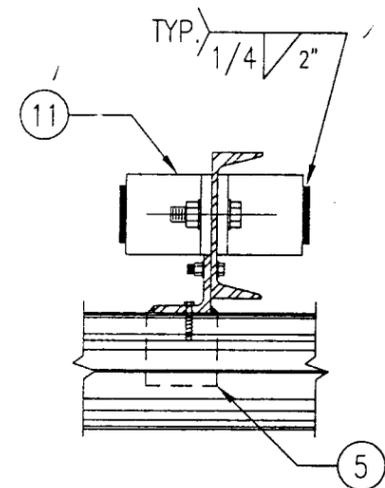
CONCRETE SILL & HEAD

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

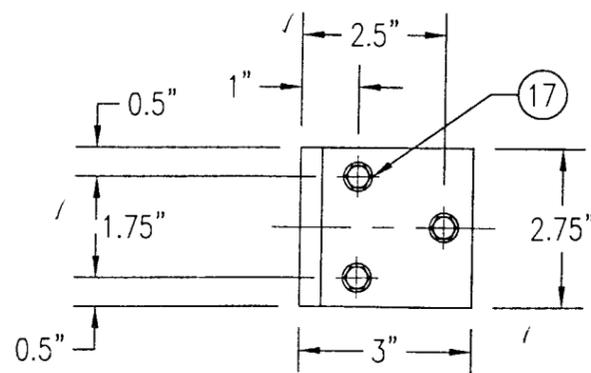


STEEL FRAME OPENING (WELDED)

SEE "WOOD OPENING" FOR DETAIL NOT SHOWN

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

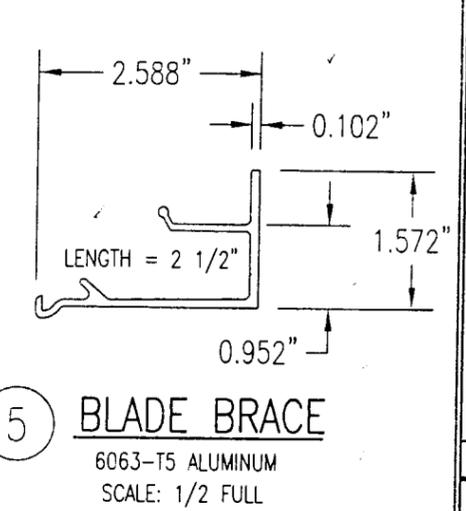
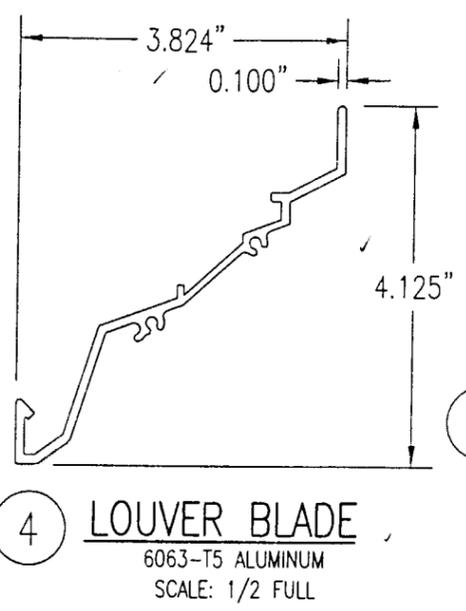
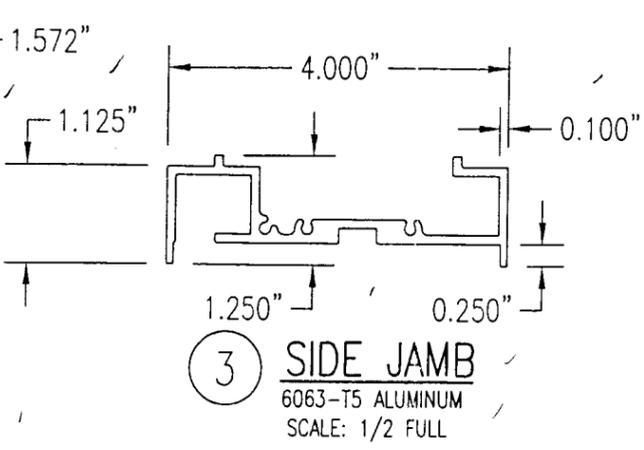
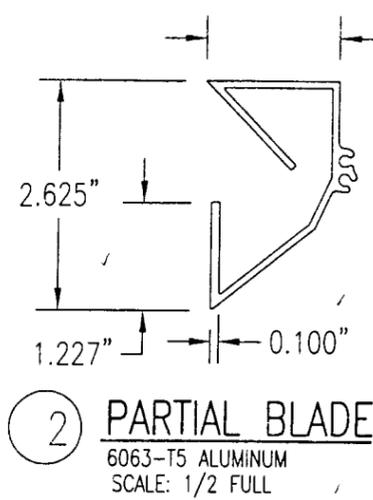
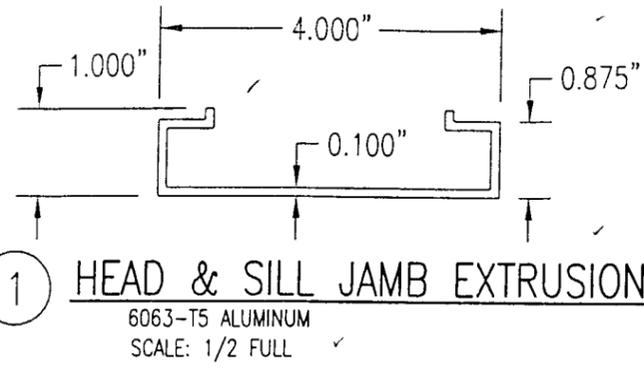
DETAIL **7**
SCALE: 2"=1'-0" **5**



MULLION CLIP DETAIL @ WOOD INSTALLATION

Approved as complying with the Florida Building Code
Date: 01/16/03
NO. 02-1216-13
Miami Dade Product Control Division
By: [Signature]

DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1-6	DATE: 12/05/02
NO.	REVISION DESCRIPTION
BY	DATE
DRAWING TITLE MDH-4 ARCHITECTURAL & NON-ARCHITECTURAL LOUVER SYSTEM	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 600 SANDTREE DRIVE, SUITE 203B PALM BEACH GARDENS, FL 33403 PHONE: 561-775-4902 FAX: 561-775-4903	
MANUFACTURER NCA MANUFACTURING, INC. 1036 SOUTH JUPITER ROAD GARLAND, TX 75042 972-276-5002	
CERTIFICATION DEC 09 2002	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1196	REV.
SHEET NO. 5	OF 7



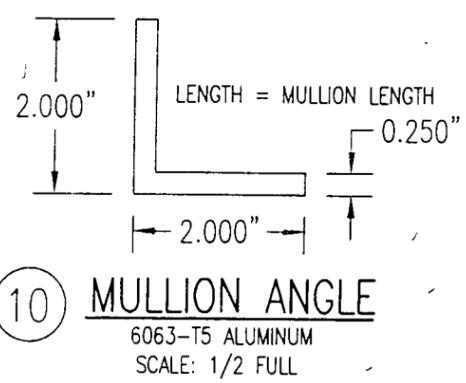
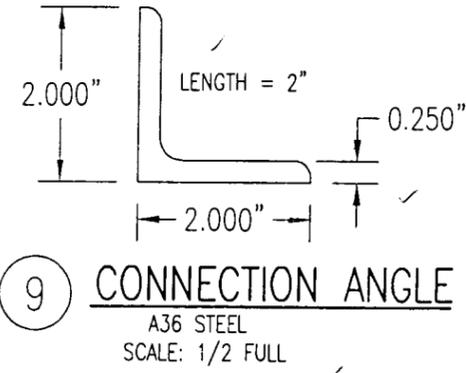
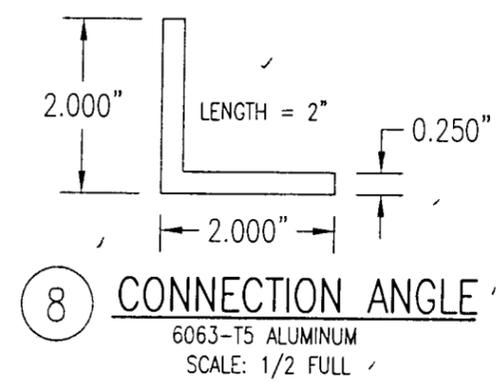
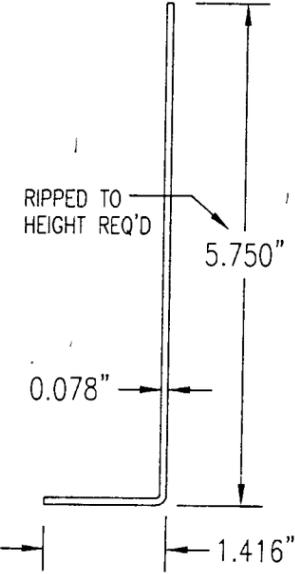
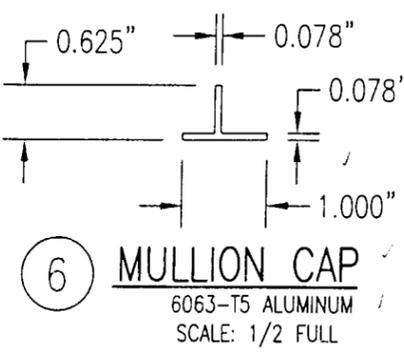
1 HEAD & SILL JAMB EXTRUSION
6063-T5 ALUMINUM
SCALE: 1/2 FULL

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



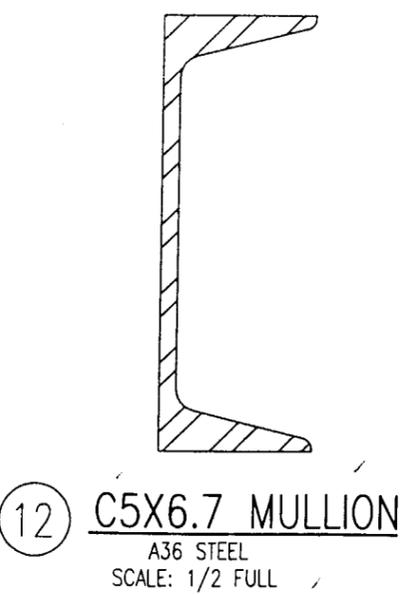
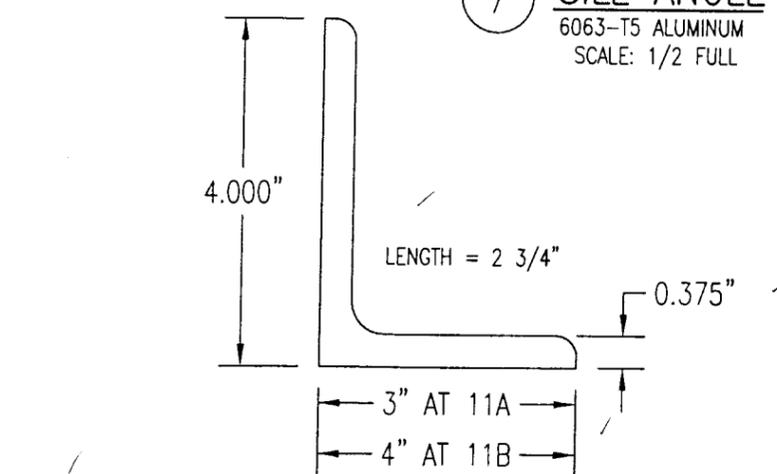
6 MULLION CAP
6063-T5 ALUMINUM
SCALE: 1/2 FULL

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



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

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

Approved as complying with the Florida Building Code
Date 01/16/03
NOA# 02-1216-13
Miami Code Product Control Division
By

DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 12/05/02	
NO.	REVISION DESCRIPTION	DATE	BY
DRAWING TITLE MDH-4 ARCHITECTURAL & NON-ARCHITECTURAL LOUVER SYSTEM			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 600 SANDTREE DRIVE, SUITE 203B PALM BEACH GARDENS, FL 33403 PHONE: 561-775-4902 FAX: 561-775-4903		MANUFACTURER NCA MANUFACTURING, INC. 1036 SOUTH JUPITER ROAD CARLAND, TX 75042 972-276-5002	
CERTIFICATION DEC 09 2002		WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1196	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		
1	HEAD & SILL FRAME	6063-T5 ALUMINUM
2	PARTIAL BLADE & HEAD	6063-T5 ALUMINUM
3	SIDE JAMB 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 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: 01/16/03
 NCA 02-1216-13
 Miami Code Product Control
 Division
 By:

DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1=1	DATE: 12/05/02
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BY	DESCRIPTION
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DRAWING TITLE	
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SHEET NO. 7 OF 7	