



BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

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)

Lawson Industries, Inc.
8501 NW 90th Street
Medley, FL 3316

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: Aluminum Tube Mullion for Series SH-7700 Aluminum Single Hung Window - Impact

APPROVAL DOCUMENT: Drawing No. M01-04, dated 10/25/01, with revision E dated 08/28/06, titled "Mullion Elevations and Details", sheets 1 through 3, prepared by Al-Farooq Corporation, signed and sealed by Humayoun Farooq, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance 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 **renews and revises** NOA No. 01-1120.01, consists of this page 1 as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P.E.**



J. Gascon
10/26/06

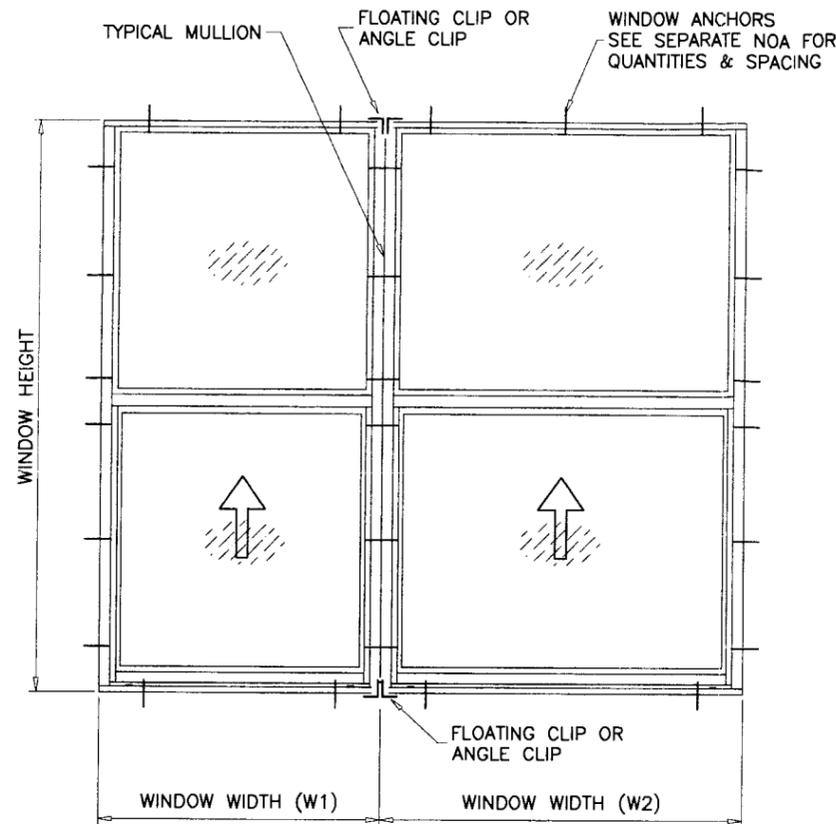
NOA No 06-0620.19
Expiration Date: June 20, 2012
Approval Date: November 16, 2006
Page 1

Lawson Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- A. DRAWINGS**
1. Manufacturer's die drawings and sections.
 2. Drawing No. **M01-04**, dated 10/25/01, with revision E dated 08/28/06, titled "Mullion Elevations and Details", sheets 1 through 3, prepared by Al-Farooq Corporation, signed and sealed by Humayoun Farooq, P.E.
- B. TESTS "Submitted under NOA No. 01-1120.01"**
1. Test reports on 1 Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of series SH-7700 aluminum single hung windows mullled together, prepared by Fenestration Testing Laboratories, Inc., Test Report No. **FTL-3200**, dated September 28, 2001, signed and sealed by Luis Figueredo, P.E.
 2. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of series SH-7700 aluminum single hung windows mullled together, prepared by Fenestration Testing Laboratories, Inc., Test Report No. **FTL-3372**, dated March 11, 2002, signed and sealed by Luis Figueredo, P.E.
- C. CALCULATIONS**
1. Revised Anchor Calculations and structural analysis, prepared by Al-Farooq Corporation, dated 08/30/06, signed and sealed by Humayoun Farooq, P.E.
- D. MATERIAL CERTIFICATIONS**
1. Notice of Acceptance No. **02-1205.03** issued to Security Impact Glass Holdings L.L.C. for their "SAF -GLAS" dated **01/02/03**, expiring on 12/16/07.
 2. Notice of Acceptance No. **03-0421.01** issued to Solutia Inc. for their "Saflex HP lamination of glass" dated 05/22/03, expiring on 04/14/08.
- E. STATEMENTS**
1. Statement letter of conformance, dated 04/14/2006, signed and sealed by Humayoun Farooq, P.E.
Statement letter of no financial interest, dated April 4, 2002, signed and sealed by Humayoun Farooq, P.E. "**Submitted under NOA No. 01-1120.01**"
 2. Laboratory compliance letter for Test Report no. FTL- 3200, issued by Fenestration Testing Laboratory, Inc., dated October 5, 2001, signed and sealed by Luis Figueredo, P.E.
- F. OTHER**
1. NOA # 01-1120.01, expiring June 20, 2007.


Jaime D. Gascón, P.E.
Chief, Product Control Division
NOA No 06-0620.19
Expiration Date: June 20, 2012
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$$\text{AVG. WIDTH} = \frac{W1 + W2}{2}$$

FOR OTHER PERIMETER ANCHORS REFER TO PRODUCT APPROVAL.

NOTE:

APPROVAL APPLIES TO TWO OR MORE WINDOWS MULLED TOGETHER.

ALUMINUM TUBE MULLION WINDOW FRAME MEMBER INCLUDED IN PROPERTIES

USE WITH:
SERIES SH-7700 SINGLE HUNG WINDOW

NOTES:

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 EDITION (REV. 2005) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

ALL GLAZING PRODUCTS USED WITH THESE MULLIONS MUST MEET THE APPLICABLE BUILDING CODE REQUIREMENTS I.E: WIND LOAD, WATER INFILTRATION, FORCED ENTRY RESISTANCE, SAFEGUARDS ETC.

WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL COVERING (STUCCO, TILE ETC.).

ANCHORING CONDITIONS OTHER THAN THOSE SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

A LOAD DURATION INCREASE IN ALLOWABLE STRESS IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

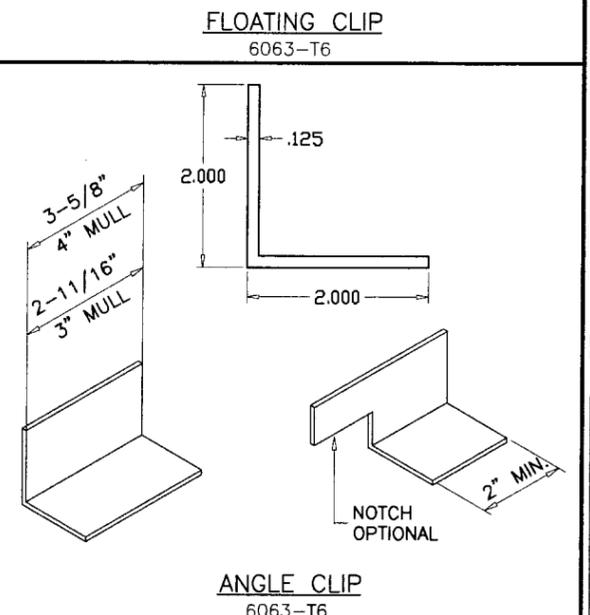
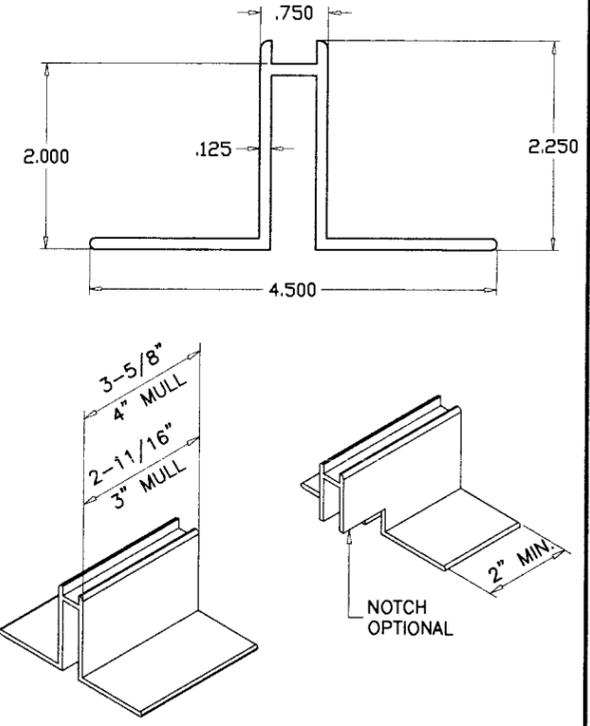
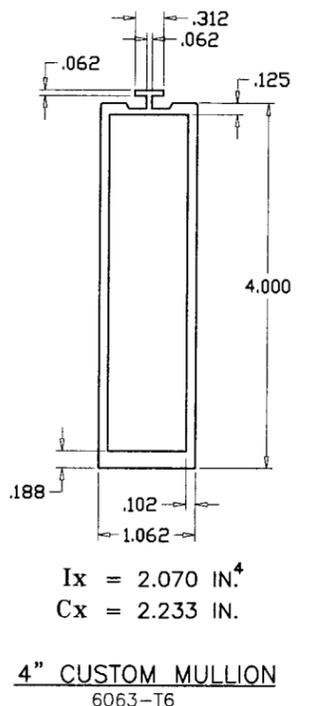
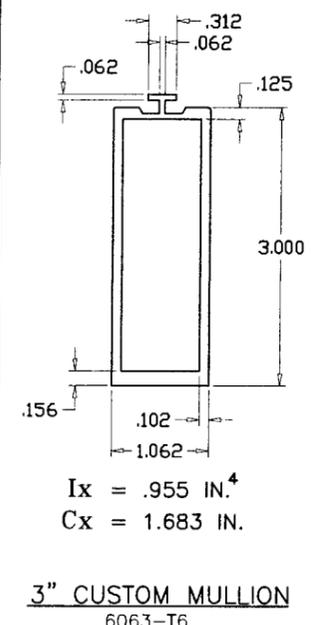
CLIPS OR ANGLES CONNECTED DIRECTLY TO MASONRY TO BE PROTECTED WITH ALKALI-RESISTANT COATINGS, SUCH AS BITUMINOUS PAINT OR WATER-WHITE METHACRYLATE LACQUER.

THESE MULLIONS ARE RATED FOR LARGE MISSILE IMPACT

INSTRUCTIONS:

USE MULLION/ANCHOR CHART AS FOLLOWS.

- STEP 1** DETERMINE DESIGN LOAD REQUIRED PER ASCE 7 FOR PARTICULAR OPENING.
- STEP 2** USE CONNECTION TO MULLION AS PER PRODUCT APPROVAL.
- STEP 3** USING CHART ON SHEET 2 SELECT ANCHORS WITH DESIGN RATING MORE THAN THE DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 4** CAPACITY OF LAWSON'S 7700 SINGLE HUNG WINDOW AND MULLION MUST EQUAL OR EXCEED REQUIRED LOADS.



ANCHORS MIN. EDGE DISTANCES

INTO CONCRETE (MIN. $f_c' = 3000$ PSI) = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

ANCHORS C TO C DISTANCES

INTO CONCRETE (MIN. $f_c' = 3000$ PSI) = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557
C.A.N. 3538

AUG 30 2006

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as complying with the Florida Building Code
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Expiration Date 06/20/12
By: [Signature]
Miami Dade Product Control Division

AL-FAROOQ CORPORATION
ENGINEERS, PLANNERS & PRODUCT DESIGN
1235 SW 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978

MULLION M01-04

MULLION ELEVATIONS AND DETAILS

LAWSON INDUSTRIES
7030 N.W. 37 TH. COURT
MIAMI, FL. 33147
TEL. (305) 696-8660 FAX (305) 696-6006

no	date	description
A	04.02.02	MULLION CLIP REV.
B	04.30.02	REV. PER BCCO COMMENTS
C	05.30.02	REV. PER BCCO COMMENTS
D	04.20.06	UPDATED FOR 2004 FBC
E	08.28.06	REV. PER BCCO COMMENTS

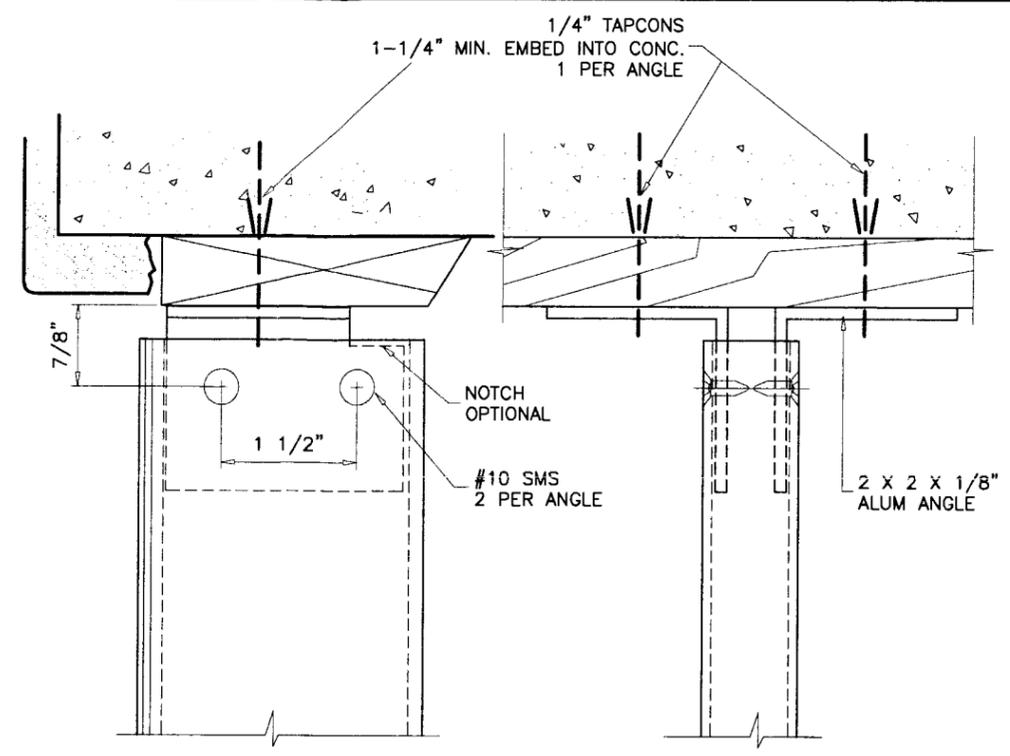
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chk. by:

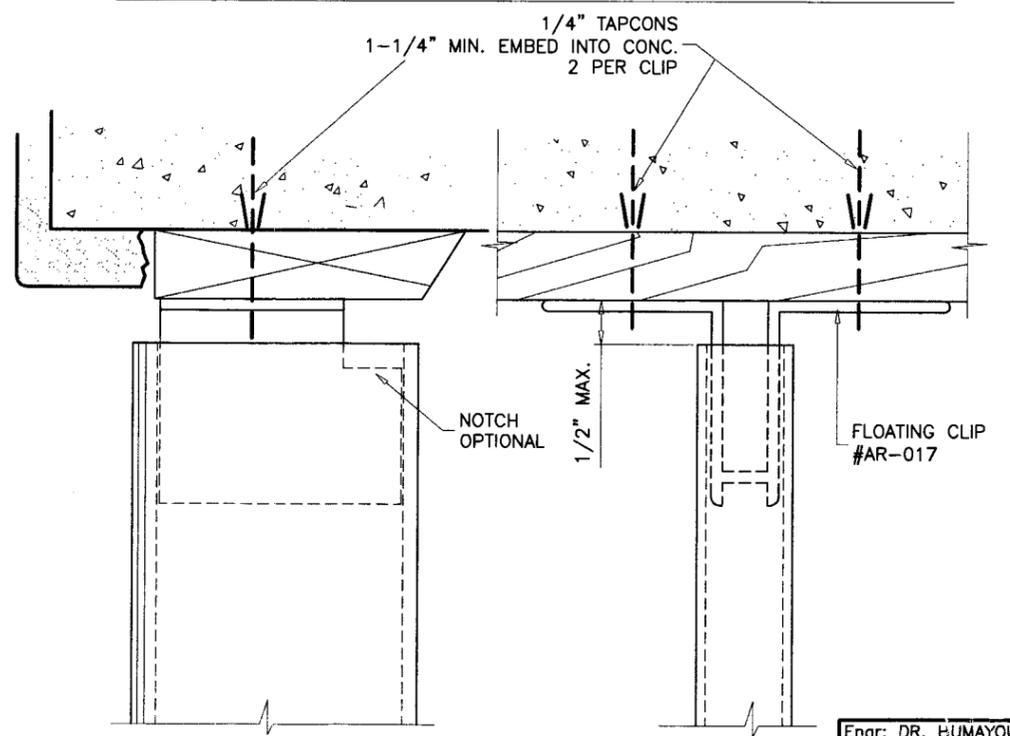
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M01-04

sheet 1 of 5

DESIGN LOAD CAPACITY - PSF POSITIVE (+) AND NEGATIVE (-)							
WINDOW DIMS.		3" CUSTOM MULLION			4" CUSTOM MULLION		
AVG. WIDTH	HEIGHT	ANCHOR 'A'	ANCHOR 'B'	ANCHOR 'C'	ANCHOR 'A'	ANCHOR 'B'	ANCHOR 'C'
19-1/8"	38-3/8"	100.0	100.0	100.0	100.0	100.0	100.0
26-1/2"		100.0	100.0	100.0	100.0	100.0	100.0
37"		100.0	100.0	100.0	100.0	100.0	100.0
40"		100.0	100.0	100.0	100.0	100.0	100.0
44"		98.9	100.0	100.0	98.9	100.0	100.0
48"		90.7	100.0	100.0	90.7	100.0	100.0
53-1/8"		81.9	99.2	100.0	81.9	99.2	100.0
19-1/8"	50-5/8"	100.0	100.0	100.0	100.0	100.0	100.0
26-1/2"		100.0	100.0	100.0	100.0	100.0	100.0
37"		89.2	100.0	100.0	89.2	100.0	100.0
40"		82.5	99.8	100.0	82.5	99.8	100.0
44"		75.0	90.8	100.0	75.0	90.8	100.0
48"		68.7	83.2	100.0	68.7	83.2	100.0
53-1/8"		62.1	75.2	100.0	62.1	75.2	100.0
19-1/8"	57"	100.0	100.0	100.0	100.0	100.0	100.0
26-1/2"		100.0	100.0	100.0	100.0	100.0	100.0
37"		79.2	95.9	100.0	79.2	95.9	100.0
40"		73.3	88.7	100.0	73.3	88.7	100.0
44"		66.6	80.6	100.0	66.6	80.6	100.0
48"		61.1	73.9	100.0	61.1	73.9	100.0
53-1/8"		55.2	66.8	98.0	55.2	66.8	100.0
19-1/8"	63"	100.0	100.0	100.0	100.0	100.0	100.0
26-1/2"		100.0	100.0	100.0	100.0	100.0	100.0
37"		71.7	86.7	100.0	71.7	86.7	100.0
40"		66.3	80.2	100.0	66.3	80.2	100.0
44"		60.3	72.9	96.0	60.3	72.9	100.0
48"		55.2	66.9	88.0	55.2	66.9	100.0
53-1/8"		49.9	60.4	79.5	49.9	60.4	97.5
19-1/8"	74-1/4"	100.0	100.0	100.0	100.0	100.0	100.0
26-1/2"		84.9	98.2	98.2	84.9	100.0	100.0
37"		60.8	70.3	70.3	60.8	73.6	99.1
40"		56.2	65.0	65.0	56.2	68.1	91.7
44"		51.1	59.1	59.1	51.1	61.9	83.4
48"		46.9	54.2	54.2	46.9	56.7	76.4
53-1/8"		42.3	49.0	49.0	42.3	51.3	69.0

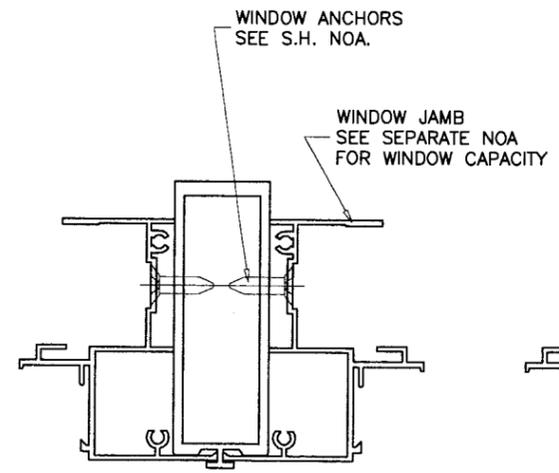


ANCHORS TYPE 'A'
USING ANGLE CLIPS
ANCHORS THRU WOOD BUCKS INTO MASONRY

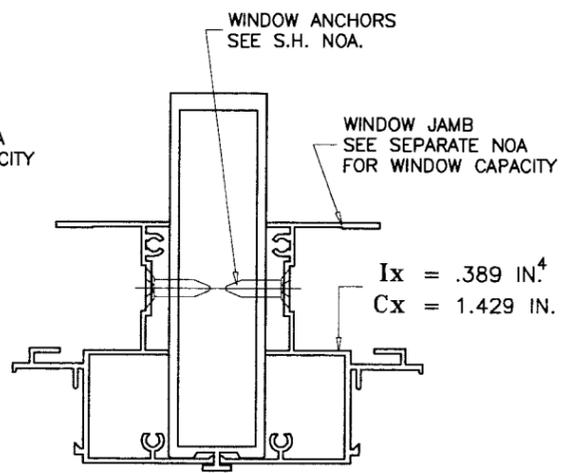


ANCHORS TYPE 'A'
USING FLOATING CLIP
ANCHORS THRU WOOD BUCKS INTO MASONRY

TAPCONS BY 'ELCO IND. INC.'



3" CUSTOM MULLION



4" CUSTOM MULLION

$I_x = .389 \text{ IN.}^4$
 $C_x = 1.429 \text{ IN.}$

Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557
C.A.N. 3538

AUG 30 2006

PRODUCT REVISED
in complying with the Florida
Building Code
Acceptance No. 06-0620-19
Expiration Date 06/20/12
By: *[Signature]*
Miami Code Product Control
Division

afc

AL-FAROOQ CORPORATION
ENGINEERS, PLANNERS & PRODUCT DESIGN
1235 SW 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978

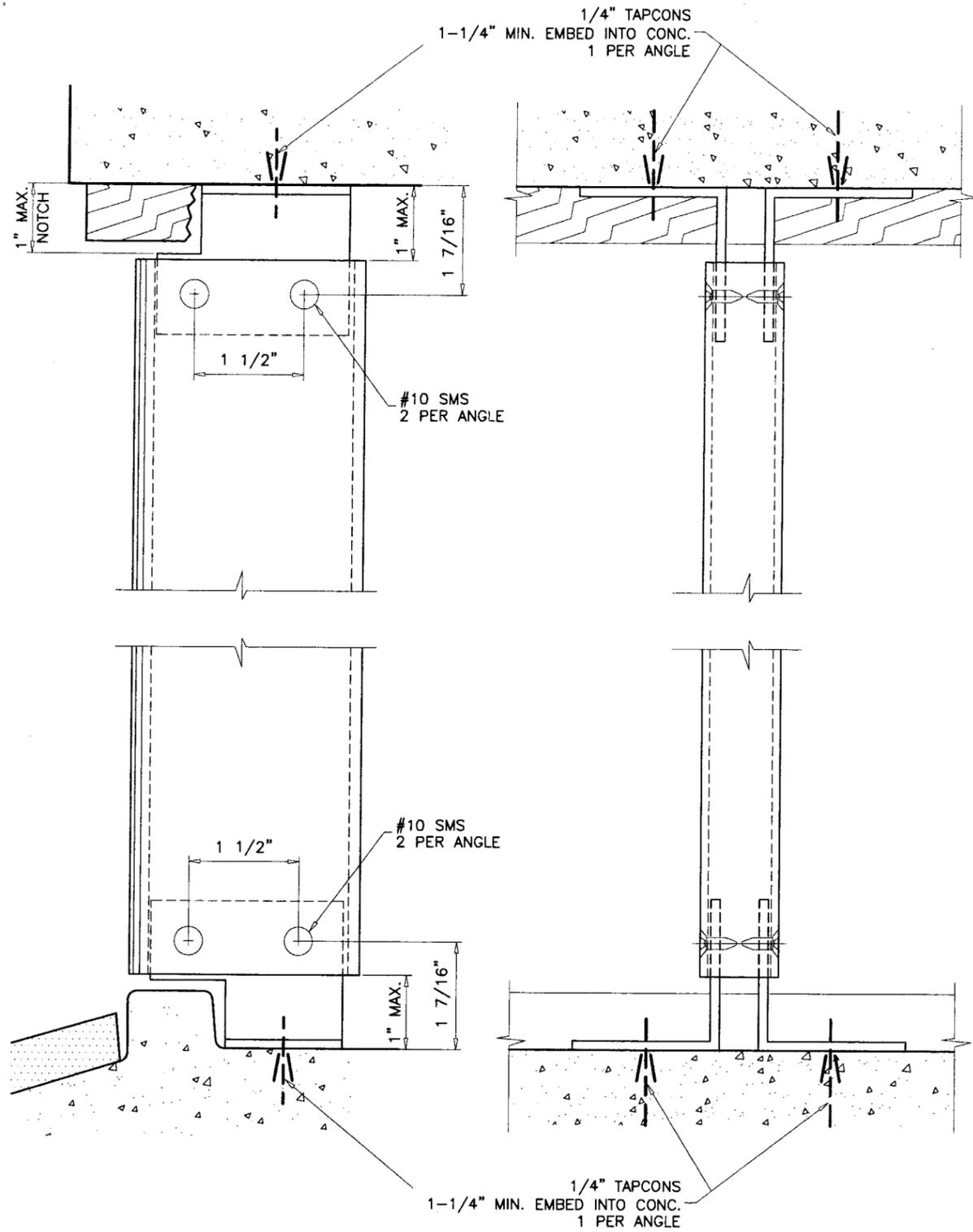
MULLION ELEVATIONS AND DETAILS

LAWSON INDUSTRIES
7030 N.W. 37 TH. COURT
MIAMI, FL. 33147
TEL. (305) 696-8660 FAX (305) 696-6006

no	date	by	description
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E	08.28.06		REV. PER BCCO COMMENTS

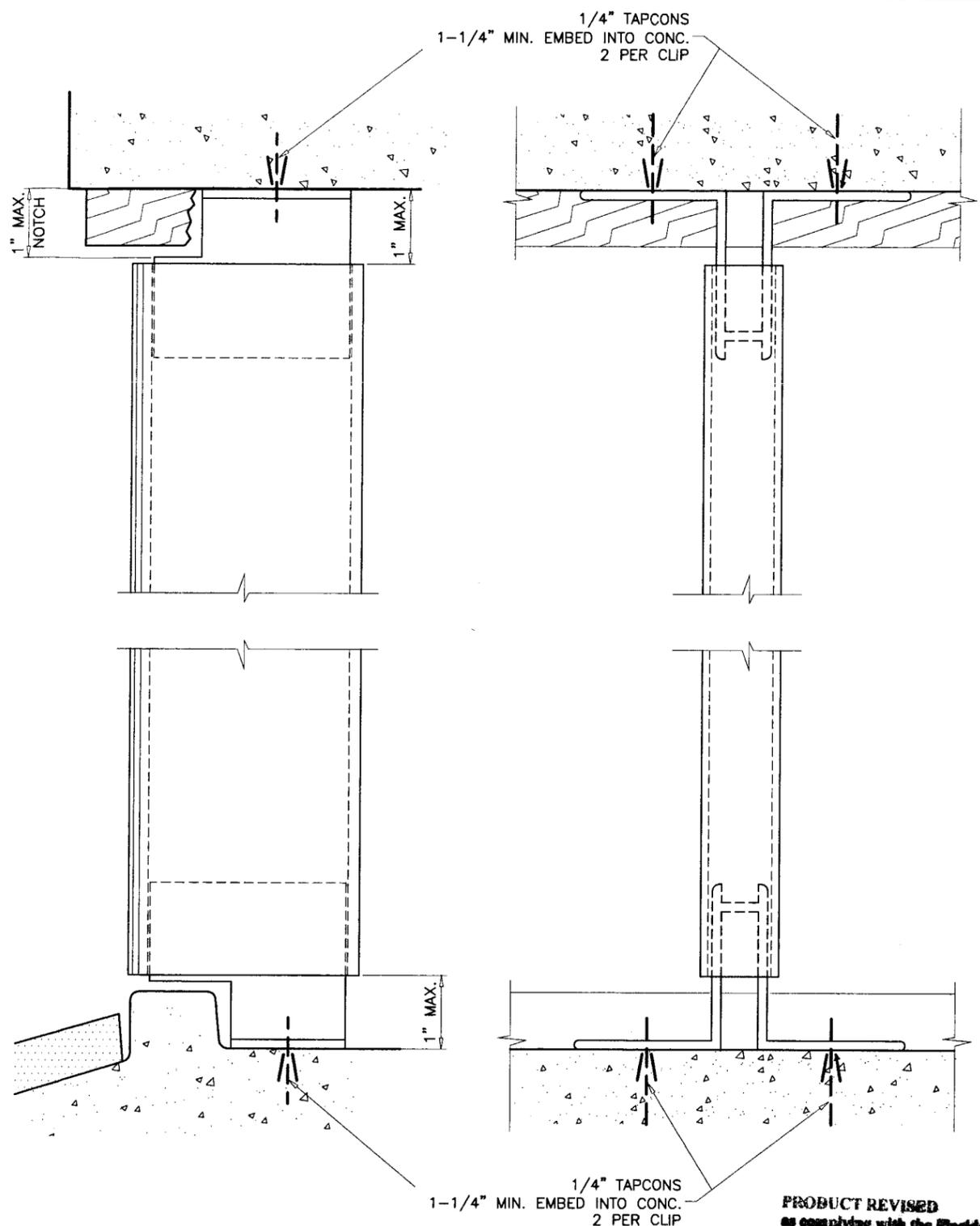
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dr. by: HAMID
chk. by:

drawing no.
M01-04
sheet 2 of 5



ANCHORS TYPE 'B'
 USING ANGLE CLIPS
 ANCHORS DIRECTLY TO MASONRY

TAPCONS BY 'ELCO IND. INC.'



ANCHORS TYPE 'B'
 USING FLOATING CLIP
 ANCHORS DIRECTLY TO MASONRY

Engr: DR. HUMAYOUN FAROOQ
 STRUCTURES
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E	08.28.06		NO CHANGE THIS SHEET

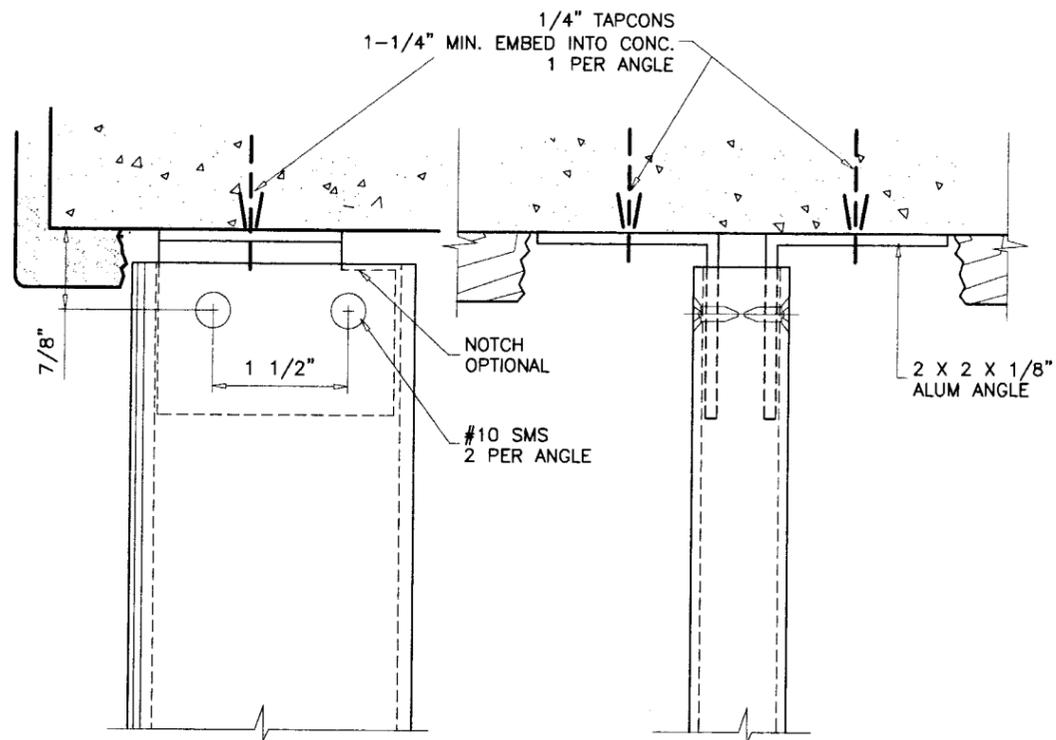
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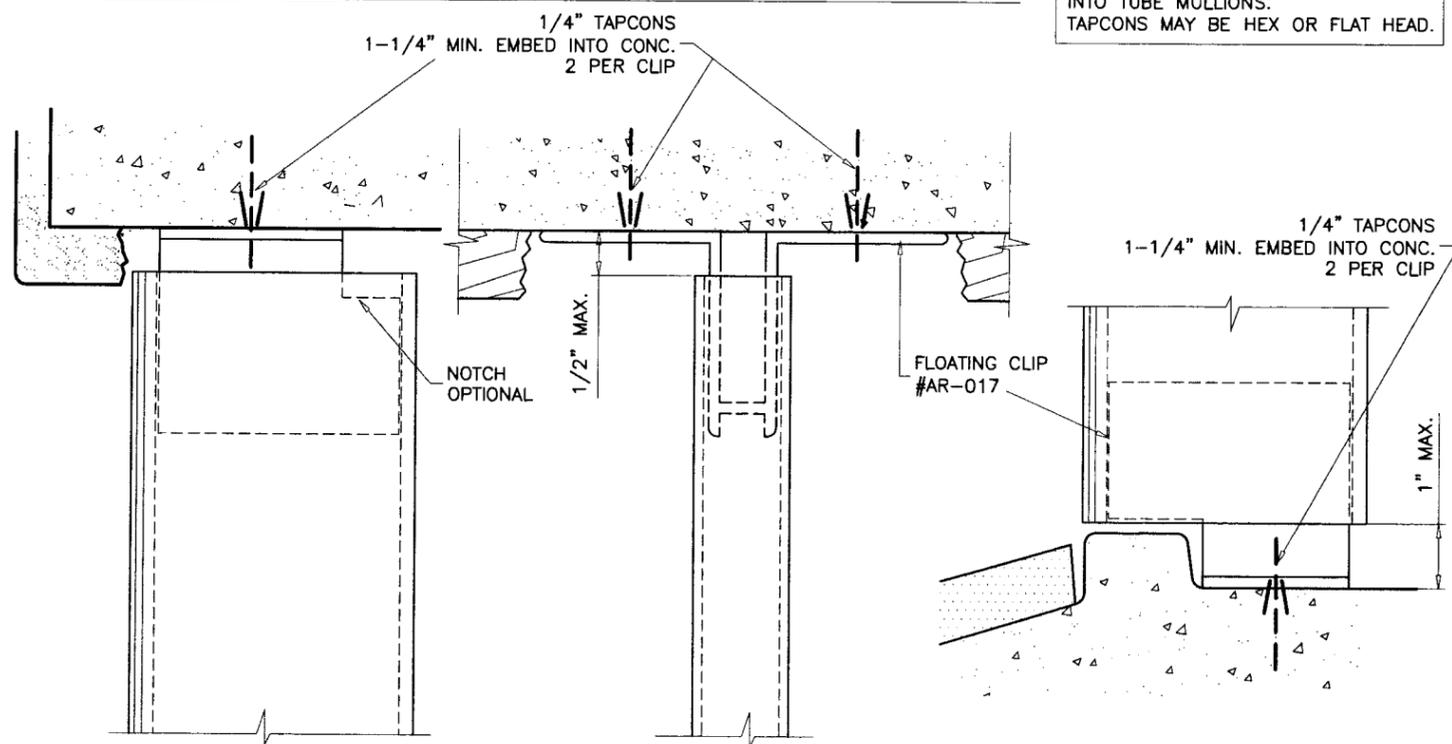
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MULLION\M01-04



ANCHORS TYPE 'B'
 USING ANGLE CLIPS
 ANCHORS DIRECTLY TO MASONRY



ANCHORS TYPE 'B'
 USING FLOATING CLIP
 ANCHORS DIRECTLY TO MASONRY

ALL CLIPS AND ANGLES TO FIT SNUG
 INTO TUBE MULLIONS.
 TAPCONS MAY BE HEX OR FLAT HEAD.

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 By [Signature]
 Miami Code Product Control
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 STRUCTURES
 FLA. PE # 16557
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[Signature]
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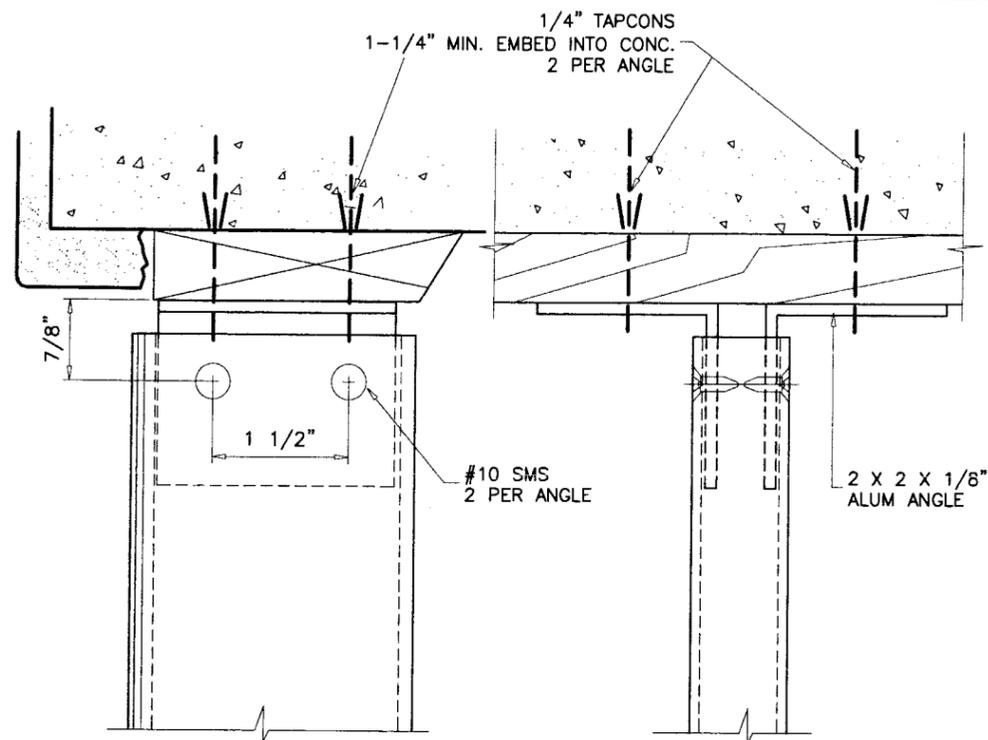
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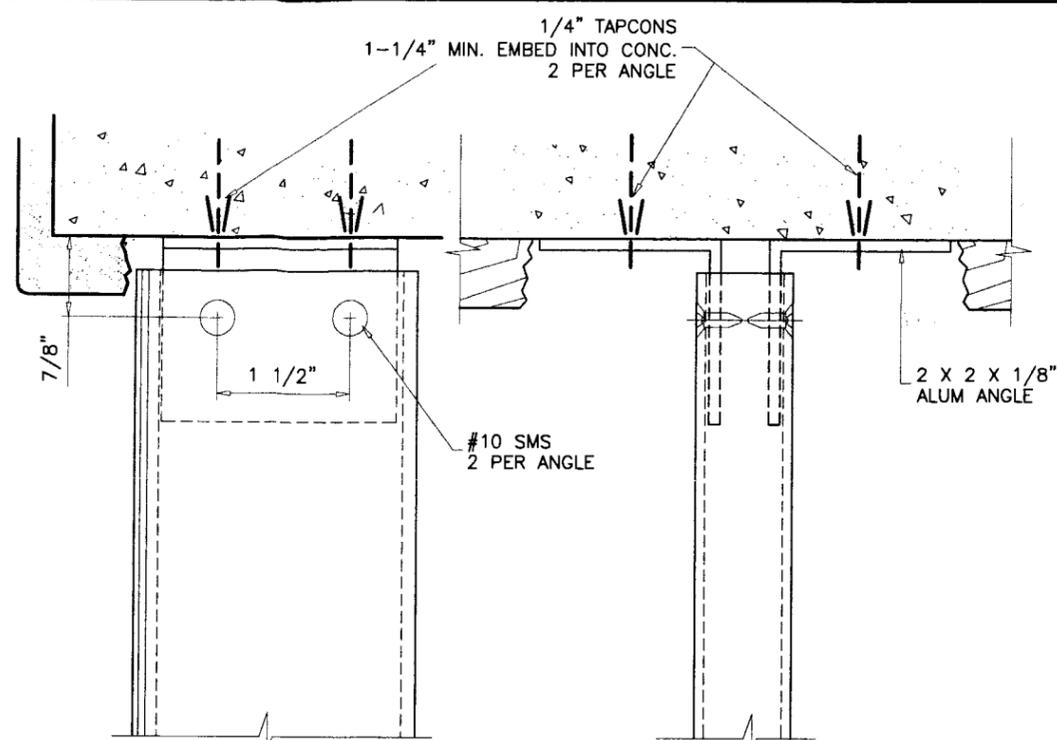
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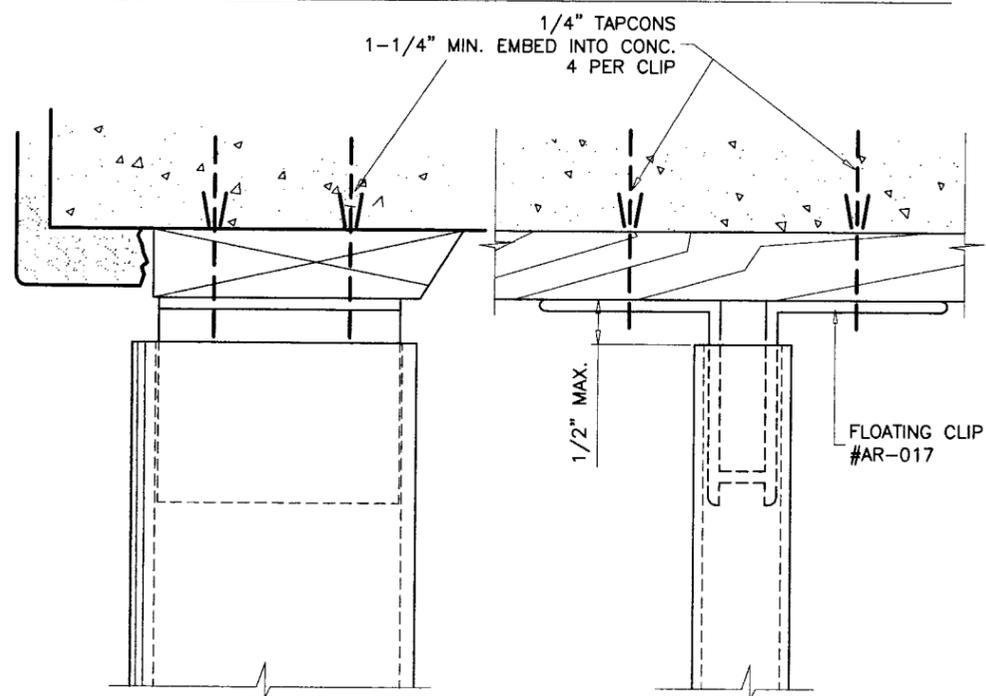
MULLION M01-04



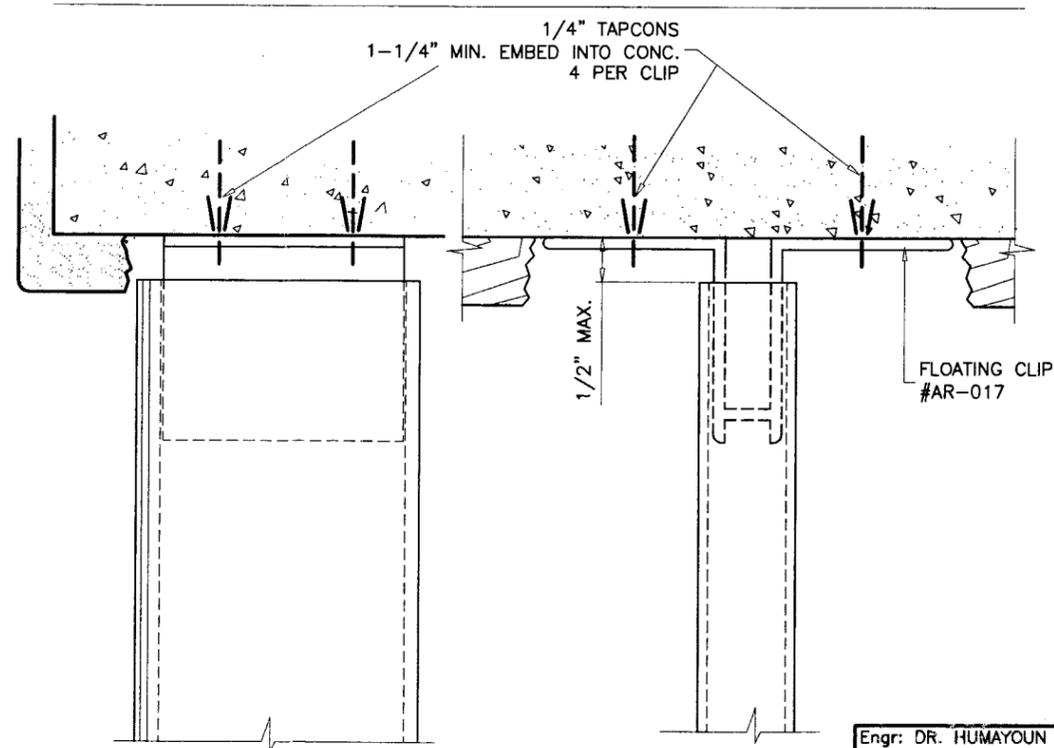
ANCHORS TYPE 'C'
 USING ANGLE CLIPS
 ANCHORS THRU WOOD BUCKS INTO MASONRY



ANCHORS TYPE 'C'
 USING ANGLE CLIPS
 ANCHORS DIRECTLY TO MASONRY



ANCHORS TYPE 'C'
 USING FLOATING CLIP
 ANCHORS THRU WOOD BUCKS INTO MASONRY



ANCHORS TYPE 'C'
 USING FLOATING CLIP
 ANCHORS DIRECTLY TO MASONRY

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sheet 5 of 5

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MULLION\M01-04