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s:\projects\caoba doors\cc-20-0904 fbc 2020 (version 7) code change\dwgs\fl19132 (new 36969)\aluminum clipped and unclipped fl19132 - cab024.dwg

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
- FOR MULLION CLIP INSTALLATION INTO WOOD FRAMING USE SIX (6) #14 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
- FOR MULLION CLIP INSTALLATION THROUGH 1X BUCK TO CONCRETE, OR DIRECTLY INTO CONCRETE, USE SIX (6) 1/4 INCH DIAMETER ELCO ULTRACONS OF SUFFICIENT LENGTH TO ACHIEVE 1 3/4 INCH MINIMUM EMBEDMENT.
- FOR MULLION CLIP INSTALLATION THROUGH 1X BUCK TO THE FACE SHELL OF MASONRY (GROUT FILLED CMU), OR DIRECTLY INTO THE FACE SHELL OF MASONRY, USE FOUR (4) 1/4 INCH DIAMETER HILTI KWIK BOLT 3 ANCHORS OF SUFFICIENT LENGTH TO ACHIEVE 2 INCH MINIMUM EMBEDMENT AND 4" EDGE DISTANCE.
- FOR MULLION CLIP INSTALLATION INTO METAL SUBSTRATE USE SIX (6) #14 GRADE 5 SELF-TAPPING OR SELF-DRILLING SCREWS OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS PENETRATION BEYOND METAL SUBSTRATE.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- FOR GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
- INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.
- INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
 - CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
 - MASONRY - STRENGTH CONFORMANCE TO ASTM C-90.
 - STEEL - MINIMUM 18 GAUGE, MINIMUM YIELD STRENGTH OF 33 KSI
 - ALUMINUM - MINIMUM 1/8" THICK, MINIMUM ALLOY 6063-T5

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), INCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - TAS 201-94
 - TAS 202-94
 - TAS 203-94
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY AND 2X FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
- MULLIONS MAY BE USED WITH ANY APPROVED FENESTRATION PRODUCT, UNDER SEPARATE APPROVAL.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
- MULLION MATERIAL:
 - TUBE: 6061-T6
 - PLATE: 6061-T6511
- GLASS OF WINDOW PRODUCTS USED WITH THE MULLIONS MUST MEET THE REQUIREMENTS OF ASTM E 1300. ALLOWABLE GLASS TYPES UNDER SEPARATE APPROVAL.
- DISSIMILAR METALS INCLUDING FASTENERS THAT MAY COME INTO CONTACT WITH ALUMINUM UNIT FRAMING SHALL BE PROTECTED IN ACCORDANCE WITH THE FBC.

INSTRUCTIONS:

- DETERMINE REQUIRED DESIGN PRESSURE FOR OPENING.
- CHOOSE A MULLION THAT PROPERLY FITS THE FENESTRATION PRODUCT AND OPENING.
- VERIFY THAT MULLION DESIGN PRESSURE MEETS OR EXCEEDS REQUIRED DESIGN PRESSURE OF OPENING USING CHARTS ON SHEET 2 & 3.
- IF USING CLIPPED MULLION SEE PAGE 5 FOR CLIP INSTALLATION REQUIREMENTS.
- THE LESSER DESIGN PRESSURE OF MULLION OR FENESTRATION PRODUCT WILL GOVERN OVERALL ASSEMBLY DESIGN PRESSURE RATING.

CAOBA DOORS

ALUMINUM CLIPPED AND UNCLIPPED VERTICAL & HORIZONTAL MULLIONS HVHZ & IMPACT RATED

TABLE OF CONTENTS		
SHEET	REVISION	SHEET DESCRIPTION
1	-	INSTALLATION & GENERAL NOTES
2	-	TYPICAL ASSEMBLIES & DESIGN PRESSURE TABLES
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5	-	HORIZONTAL SECTIONS & MULLION REQUIREMENT NOTES
6	-	VERTICAL & HORIZONTAL SECTIONS

DESIGN PRESSURE RATING			
MULLION	SIZE	DESIGN PRESSURE	MISSILE IMPACT RATING
2" X 5" CLIPPED TUBE	SEE SHEET 2 & 3	SEE SHEET 2 & 3	SMALL AND LARGE MISSILE IMPACT RATED
3/8" X 5" UNCLIPPED PLATE	SEE SHEET 2	SEE SHEET 2	SMALL AND LARGE MISSILE IMPACT RATED

NOTES:

- SEE SHEET 5 FOR MULLED CONFIGURATION REQUIREMENTS AND OPTIONAL 2" X 6" TUBE MULL LIMITATIONS.



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TITLE: ALUMINUM CLIPPED AND
UNCLIPPED VERTICAL AND
HORIZONTAL MULLIONS

INSTALLATION & GENERAL NOTES

PREPARED BY:

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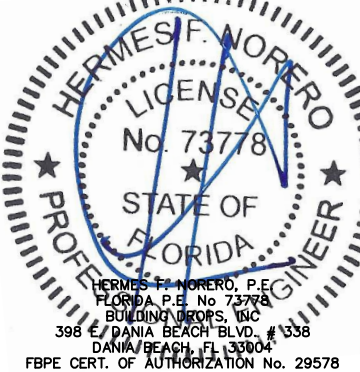
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REMARKS	BY	DATE

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Digitally signed by Hermes F Norero
Reason: I am approving this document
Date: 2020.12.21 22:45:07 -05'00'



FL #:

FL36969

DATE: 11.04.20

DWG. BY:
RV

CHK. BY:
HFN

SCALE: NTS

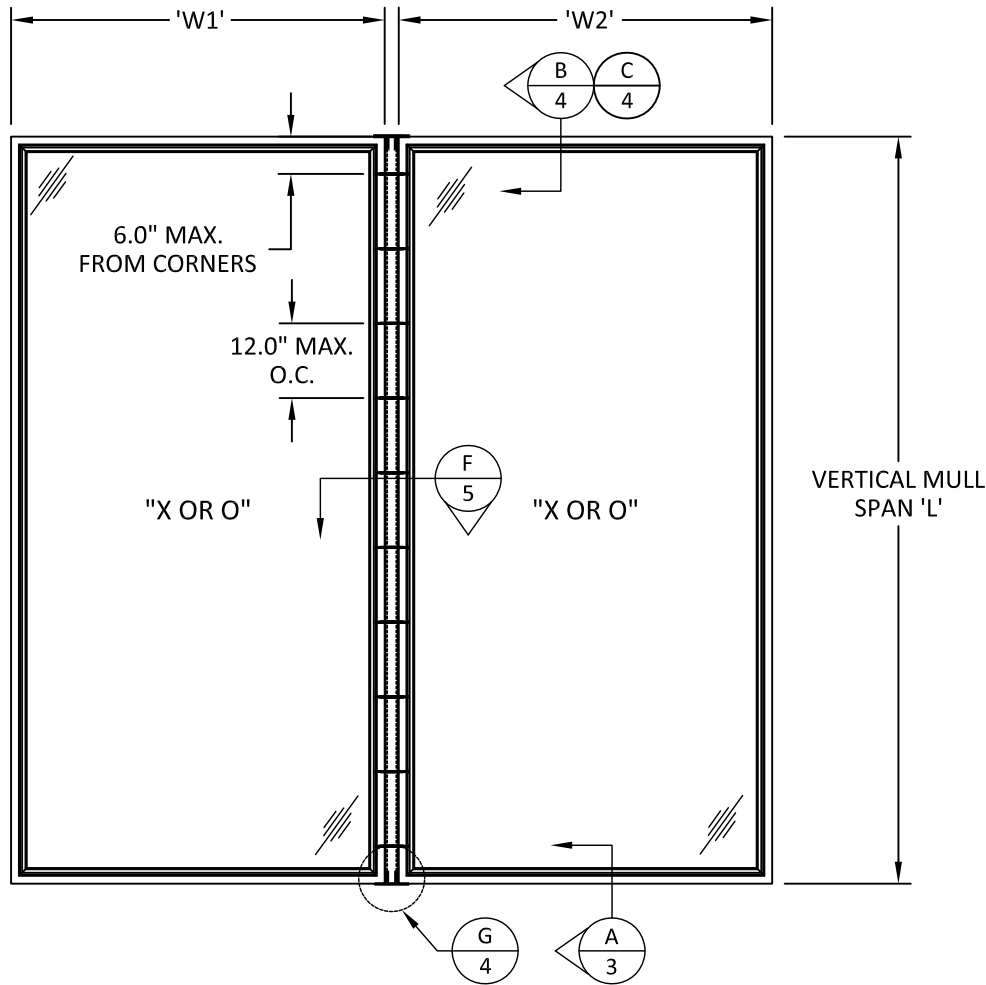
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SHEET:

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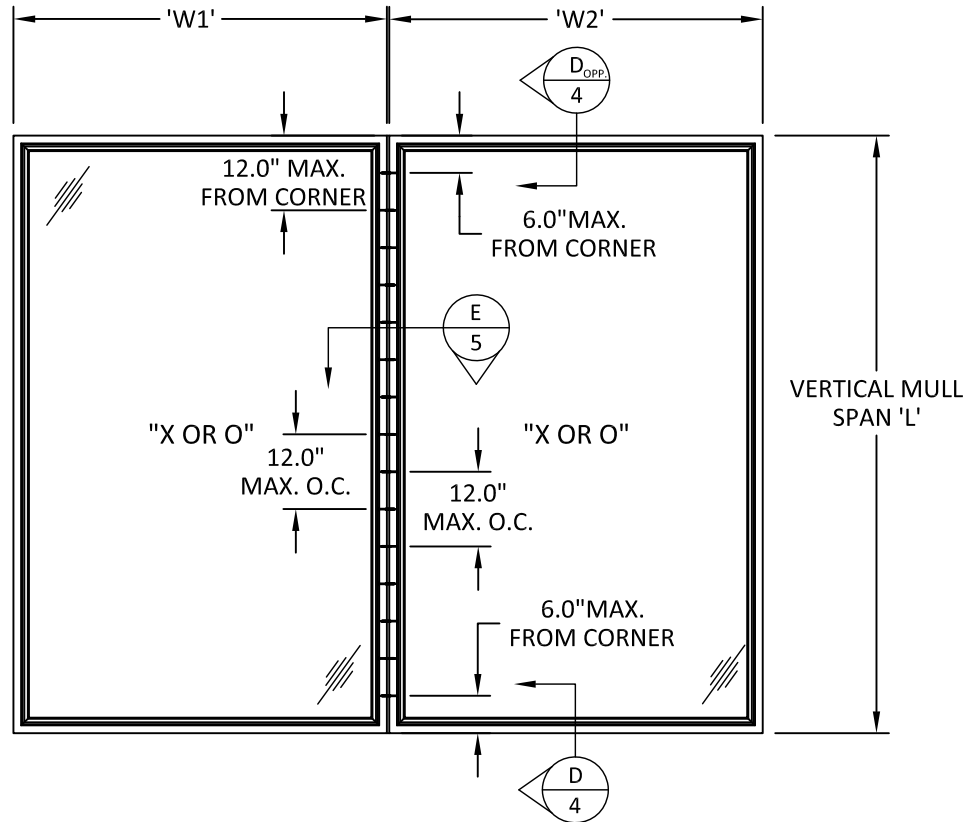
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TYPICAL MULLION ASSEMBLY
1/4" x 2" x 5" CLIPPED VERTICAL ALUMINUM TUBE
MULLION

DESIGN PRESSURE LIMITS FOR 2" X 5" VERTICAL TUBE MULLION												
SPAN 'L'	MAXIMUM WINDOW WIDTH 'W' (IN.)											
(IN.)	18.0	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0	78.0	84.0
24.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
72.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
84.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
96.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
108.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.6
112.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	94.6	90.2	86.7
116.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	96.1	89.4	84.2	80.0	76.7
120.0	100.0	100.0	100.0	100.0	100.0	100.0	93.9	86.2	80.1	75.2	71.3	68.2



TYPICAL MULLION ASSEMBLY
3/8" x 5" UNCLIPPED VERTICAL ALUMINUM PLATE REINFORCEMENT

DESIGN PRESSURE LIMITS FOR 3/8" X 5" VERTICAL PLATE REINFORCEMENT											
SPAN 'L'	MAXIMUM WINDOW WIDTH 'W' (IN.)										
(IN.)	18.0	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0	
36.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
48.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
60.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
72.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
84.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
96.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	



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HORIZONTAL MULLIONS
TYPICAL ASSEMBLIES &
DESIGN PRESSURE TABLES

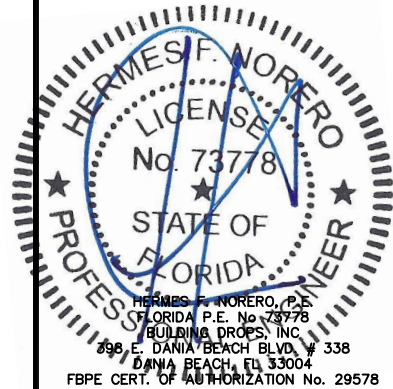
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SCALE: **NTS**

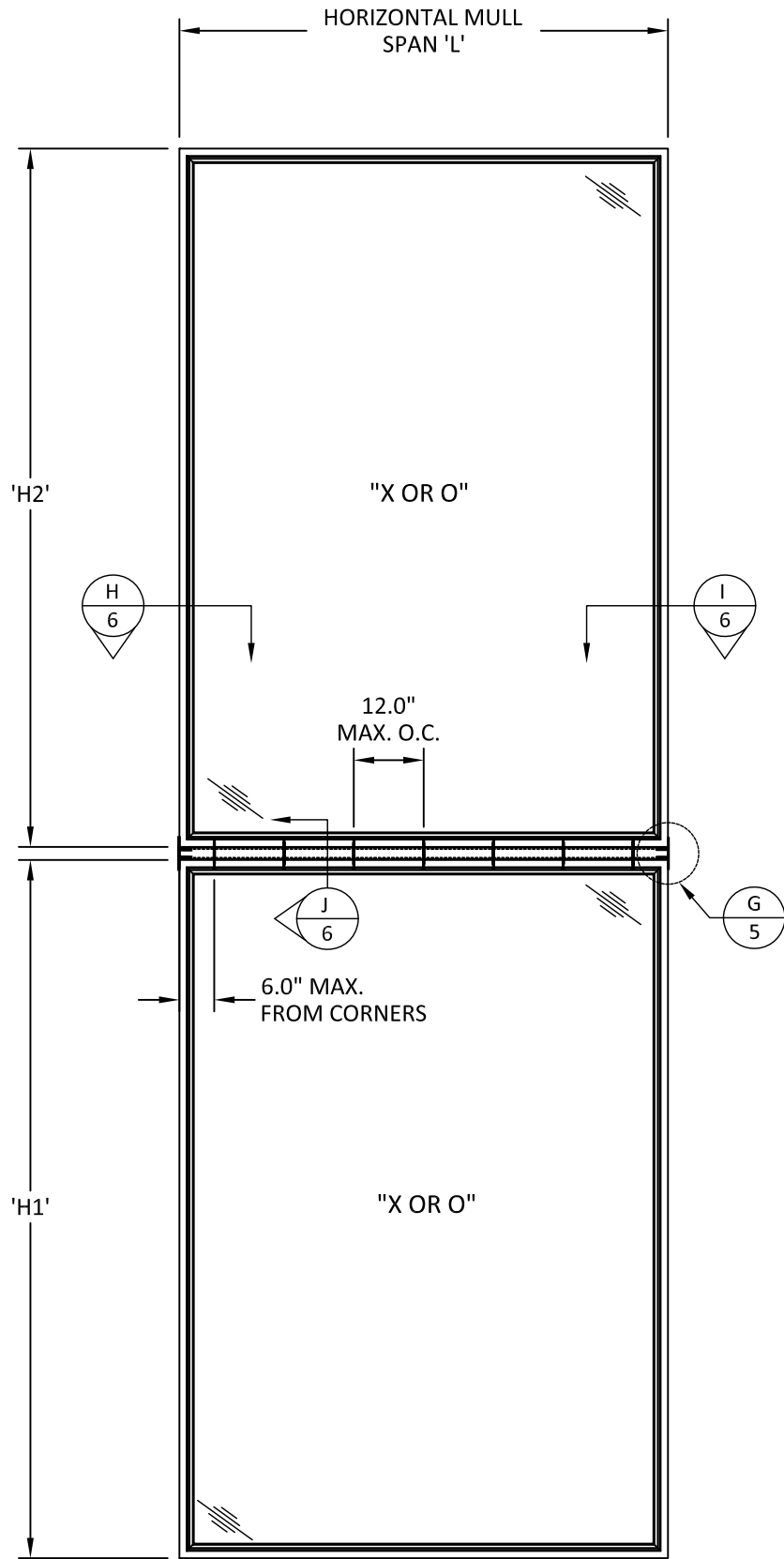
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TYPICAL MULLION ASSEMBLY
1/4" x 2" x 5" CLIPPED HORIZONTAL ALUMINUM
TUBE MULLION

DESIGN PRESSURE LIMITS FOR 2" X 5" HORIZONTAL TUBE MULLION												
MAX WINDOW HEIGHT 'H' (IN.)	MAXIMUM HORIZONTAL MULL SPAN 'L' (IN.)											
	18.0	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0	78.0	84.0
24.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
72.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
84.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
96.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
108.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
112.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
116.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
120.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0



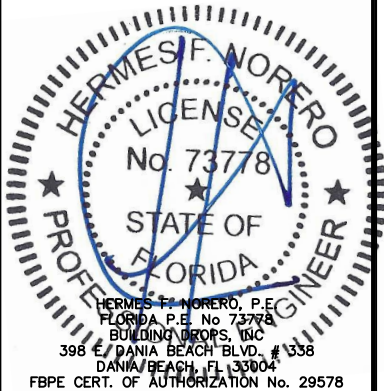
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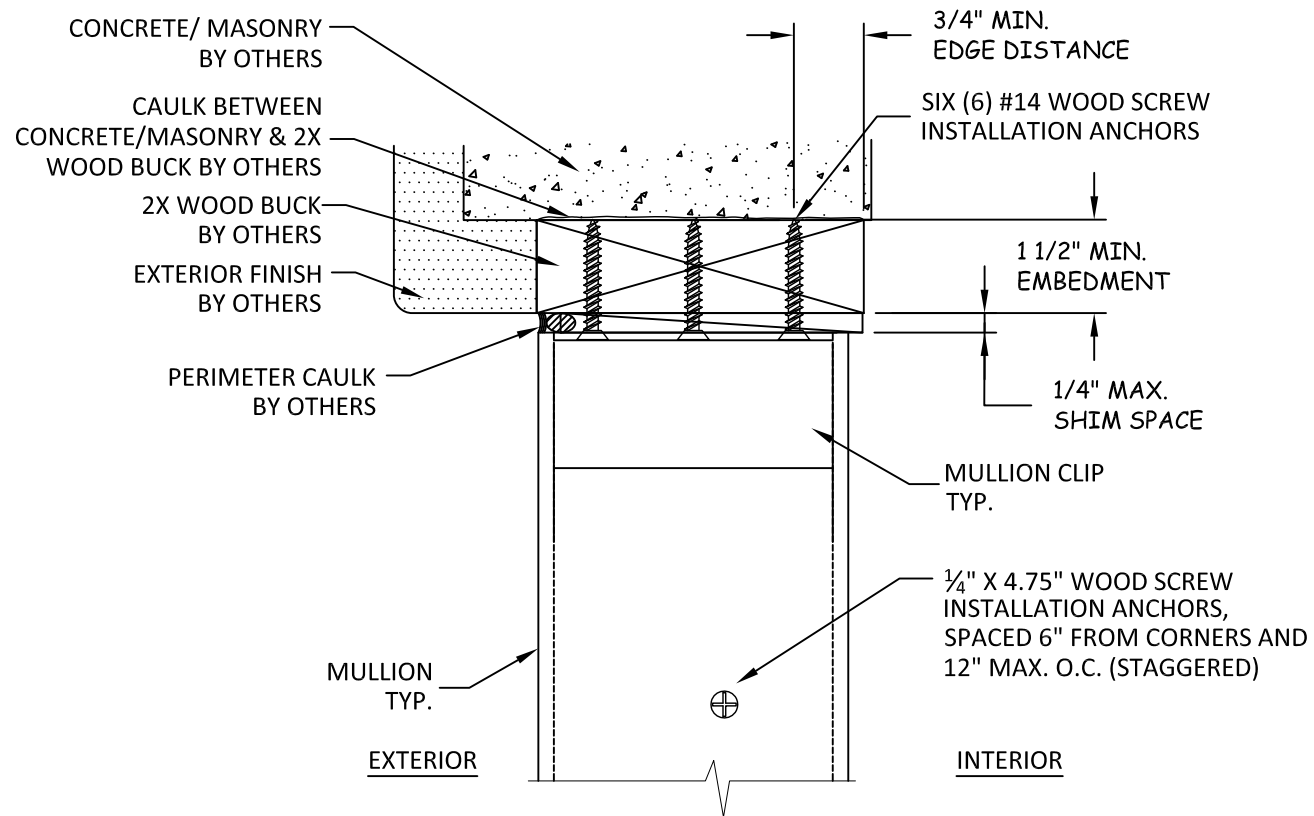
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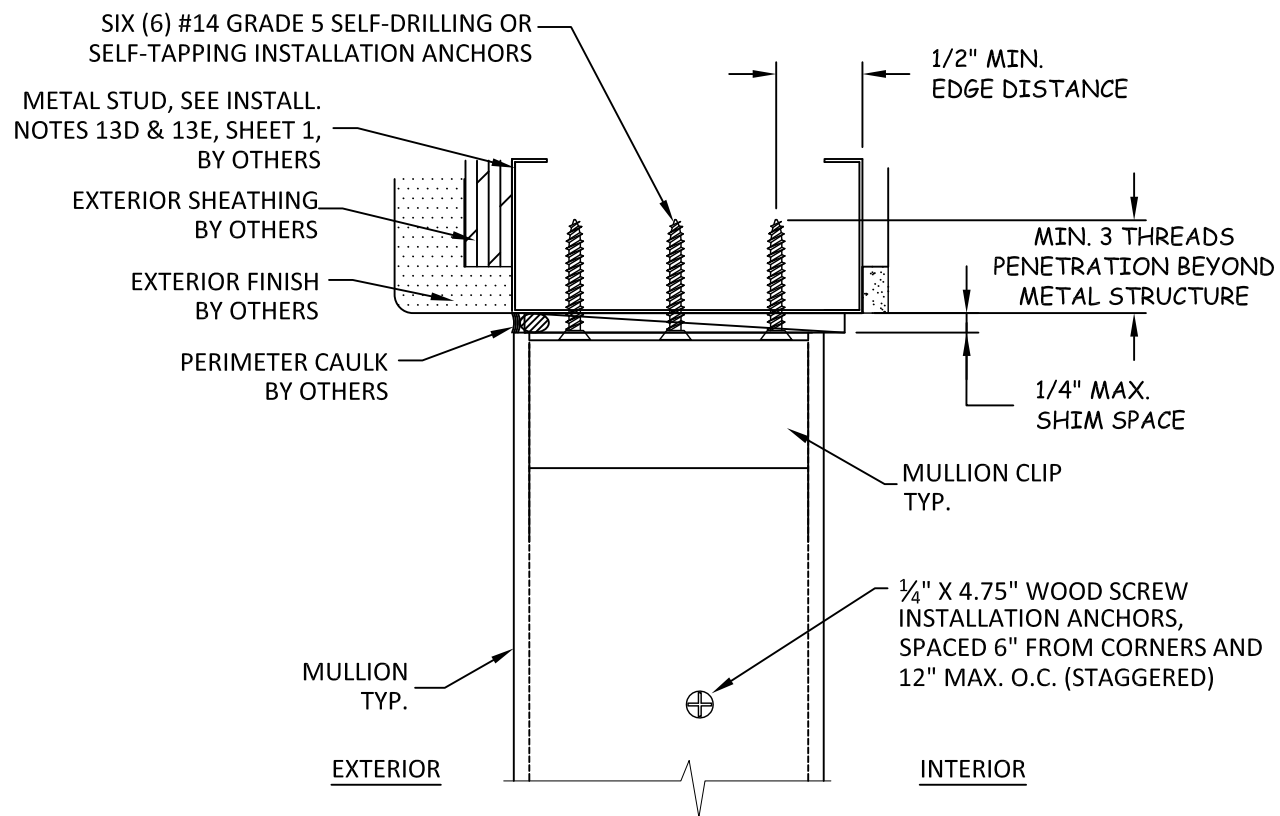
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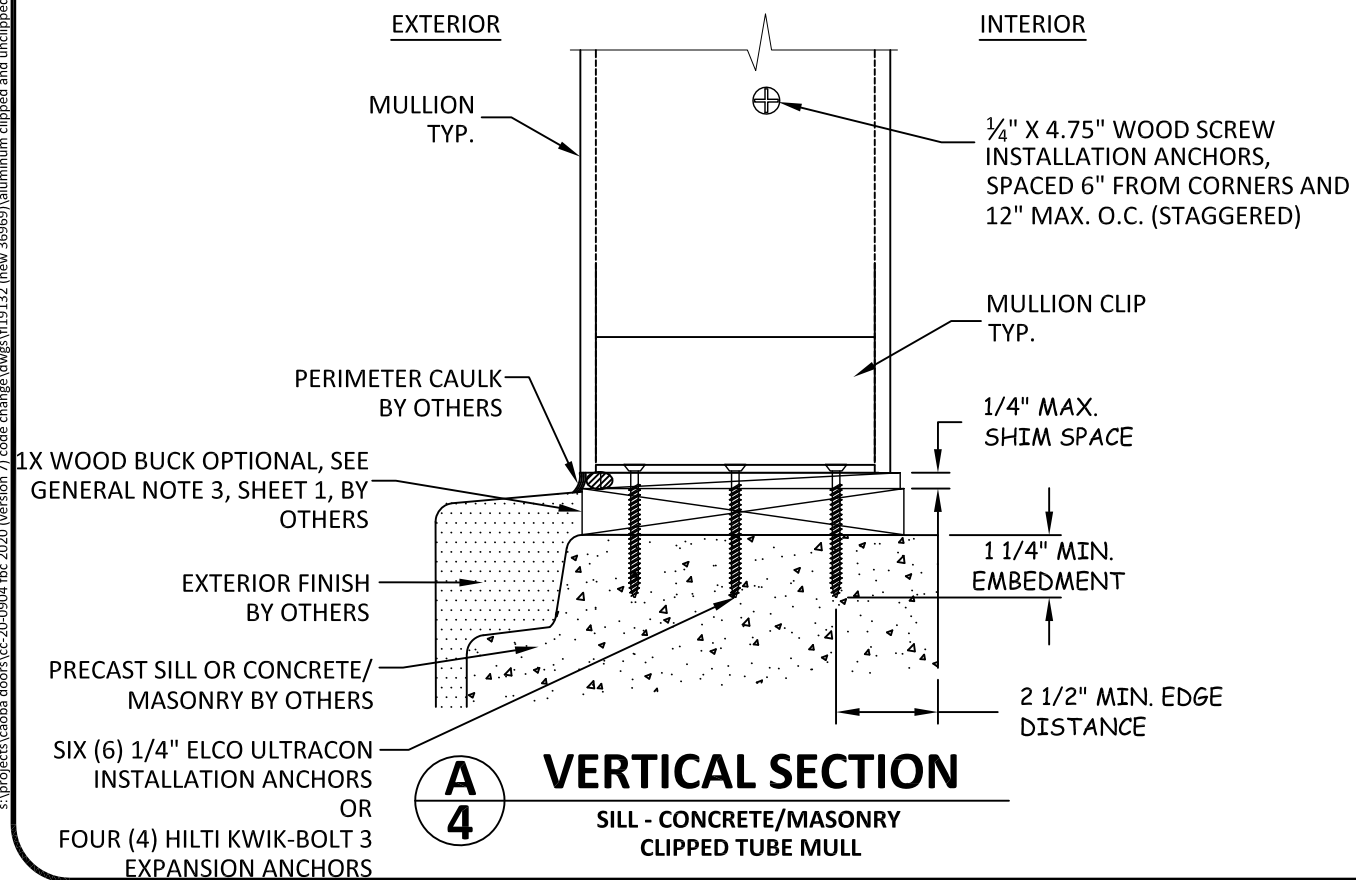
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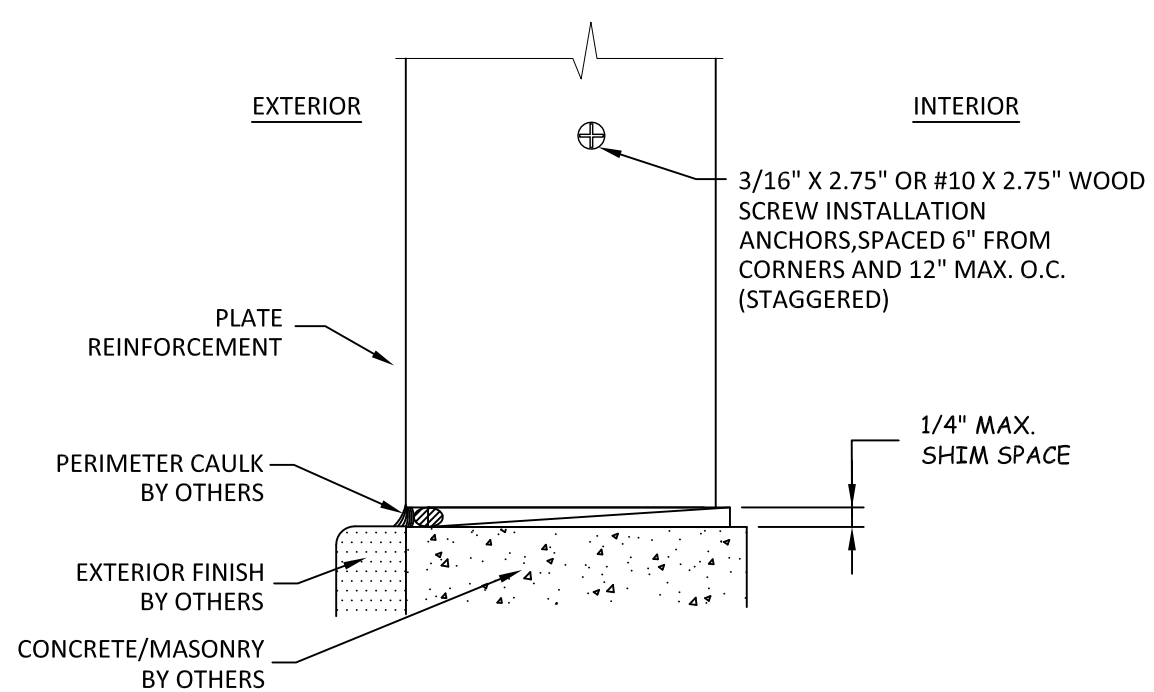
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4 **VERTICAL SECTION**
HEAD - 2X WOOD BUCK
CLIPPED TUBE MULL



C
4 **VERTICAL SECTION**
HEAD - METAL STUD
CLIPPED TUBE MULL



A
4 **VERTICAL SECTION**
SILL - CONCRETE/MASONRY
CLIPPED TUBE MULL



D
4 **VERTICAL SECTION**
SILL - CONCRETE/MASONRY
UNCLIPPED PLATE REINFORCEMENT

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DOORS

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VERTICAL SECTIONS

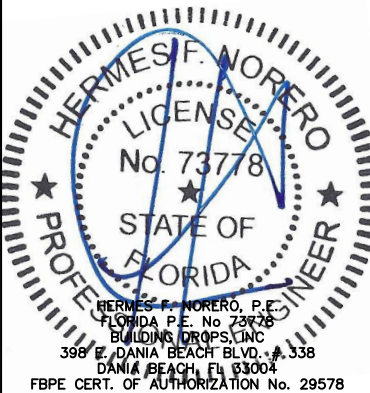
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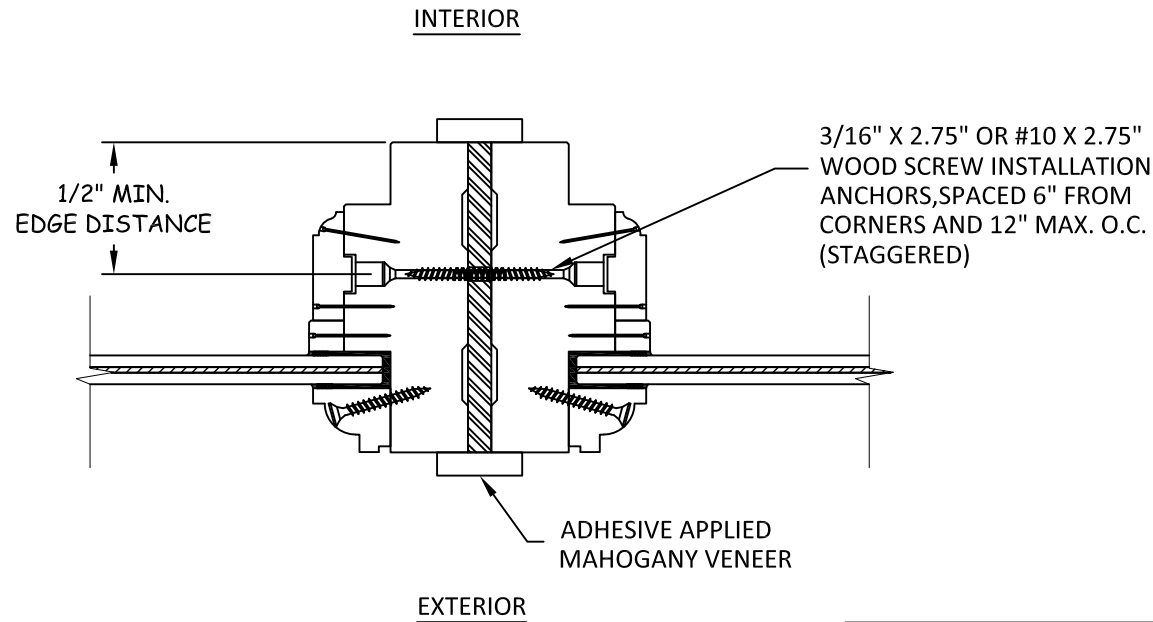
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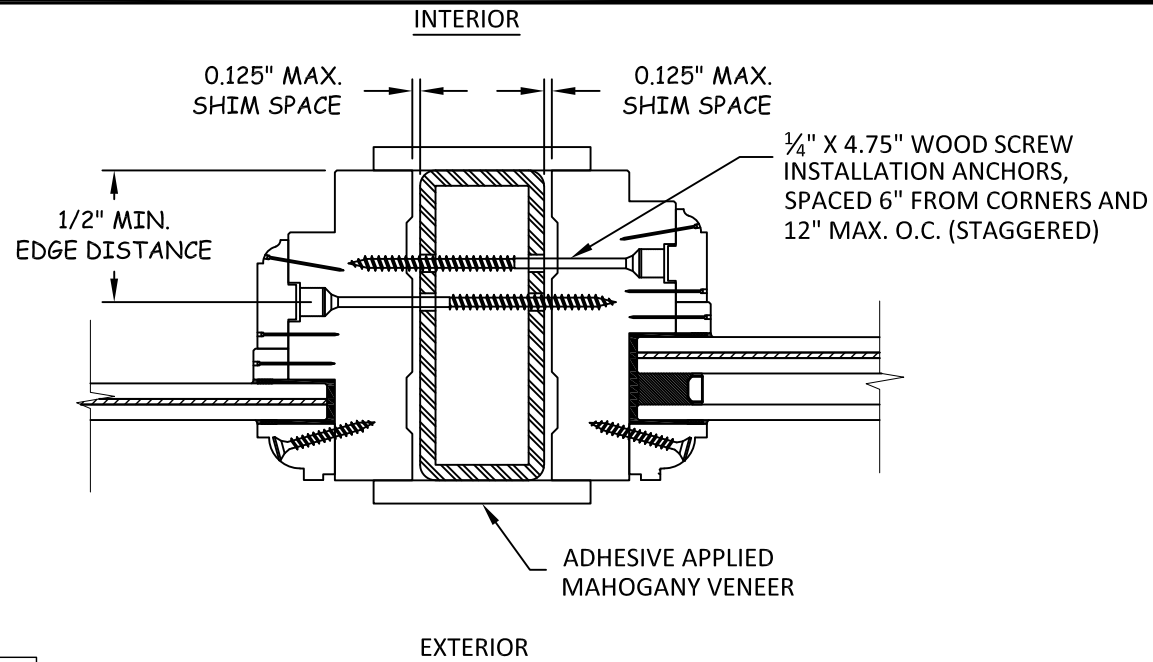
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E
5 **HORIZONTAL SECTION**
3/8" X 5" ALUMINUM PLATE REINFORCEMENT

NOTE: DIRECT SET FIXED WINDOW JAMBS SHOWN, MULLIONS MAY BE USED WITH ANY FENESTRATION PRODUCT TYPE.

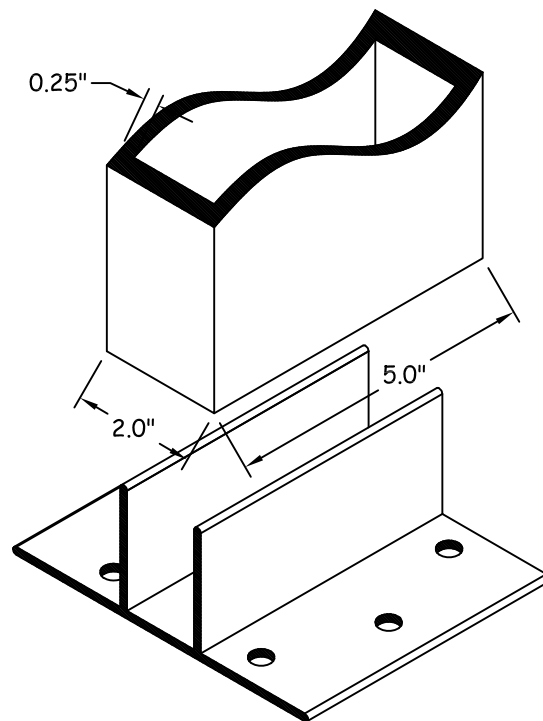
SEE INSTALLATION NOTES 5-8, PAGE 1, FOR MULLION CLIP ANCHORING REQUIREMENTS.



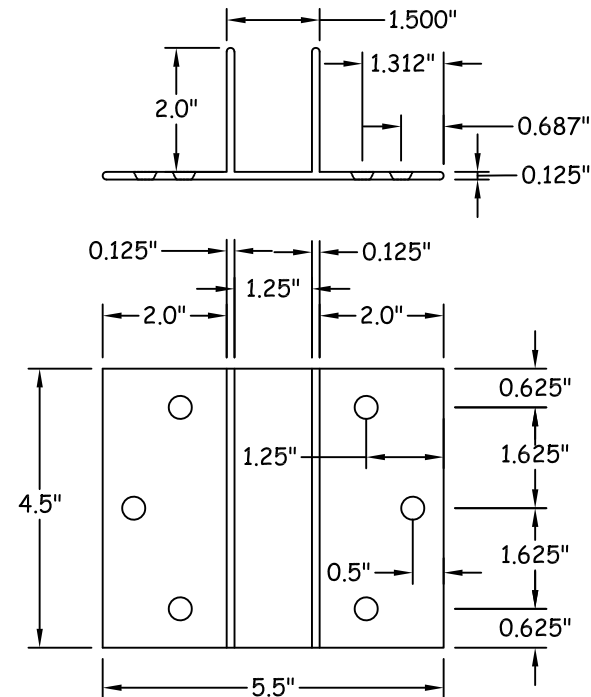
F
5 **HORIZONTAL SECTION**
1/4" X 2" X 5" ALUMINUM TUBE MULLION

MULLION REQUIREMENTS:

- SEE CHARTS ON SHEET 2 & 3 FOR ALLOWABLE DESIGN PRESSURES AND FENESTRATION PRODUCT SIZES.
- ANCHORS USED FOR MULLION CLIP SHALL BE #14 OR 3/4" FASTENERS, OF SUFFICIENT LENGTH TO MEET MINIMUM EMBEDMENT REQUIREMENTS GIVEN IN INSTALLATION NOTES 8-11, SHEET 1.
- PLATE REINFORCEMENT OR TUBE MULLION SHALL HAVE PRE-DRILLED HOLES TO ALLOW FOR FASTENERS FROM EACH FRAME TO PASS THROUGH AND PENETRATE INTO THE ADJACENT FENESTRATION PRODUCT FRAME.
- SPACING OF ANCHORS FROM FENESTRATION PRODUCT TO MULLION/PLATE SHALL BE LIMITED TO THE LESSER OF THAT SPECIFIED ABOVE AND ON SEPARATE PRODUCT APPROVAL.
- FENESTRATION PRODUCT JAMB ANCHORS TO BE USED THROUGH PLATE REINFORCEMENT SHALL BE 3/16" X 2.75" OR #10 X 2.75" FLAT HEAD WOOD SCREWS, OR LARGER IF REQUIRED BY SEPARATE PRODUCT APPROVAL
- FENESTRATION PRODUCT JAMB ANCHORS TO BE USED THROUGH TUBE MULLION SHALL BE 1/4" X 4.75" FLAT HEAD WOOD SCREWS, OR LARGER IF REQUIRED BY SEPARATE PRODUCT APPROVAL
- 2" x 5" x 1/4" 6061-T6 TUBE MULL MAY BE REPLACED WITH A 2" X 6" X 1/4" 6061-T6 TUBE MULL, DESIGN PRESSURES AND SIZE LIMITATIONS OF 2" X 5" MULL SHALL BE ADHERED TO IN HVHZ. EVALUATION OUTSIDE OF THE HVHZ SHALL BE PERFORMED ON A CASE BY CASE BASIS.



G
5 **DETAIL VIEW**
1/4" X 2" X 5" ALUMINUM TUBE MULLION CLIP



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DOORS

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HORIZONTAL SECTIONS &
MULLION REQUIREMENT NOTES

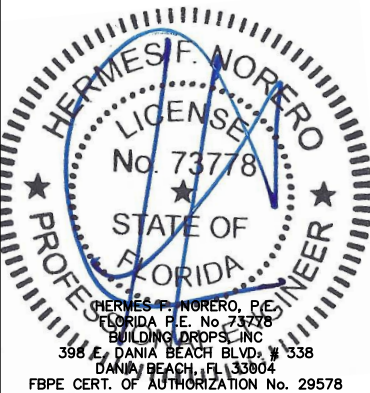
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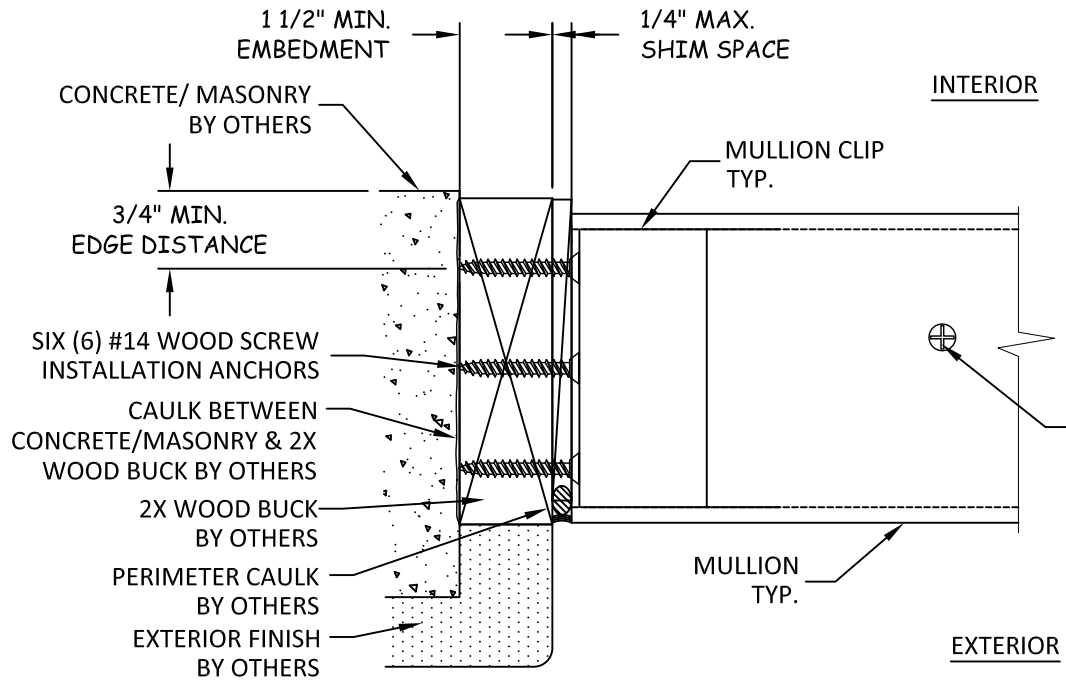
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FL #:	FL36969
DATE:	11.04.20
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	CAB024
SHEET:	5

12/21/2020 10:42 PM

s:\projects\caoba doors\cc-20-0904 fbc 2020 (version 7) code change\dwgs\fl19132 (new 36969)\aluminum clipped and unclipped fl19132 - cab024.dwg



H
6 **HORIZONTAL SECTION**
JAMB - 2X WOOD BUCK
CLIPPED TUBE MULL

1/4" MAX.
SHIM SPACE

1 1/4" MIN.
EMBEDMENT

INTERIOR

MULLION CLIP
TYP.

3/4" MIN.
EDGE DISTANCE

CONCRETE/ MASONRY
BY OTHERS

SIX (6) #14 WOOD SCREW
INSTALLATION ANCHORS

CAULK BETWEEN
CONCRETE/MASONRY & 2X
WOOD BUCK BY OTHERS

2X WOOD BUCK
BY OTHERS

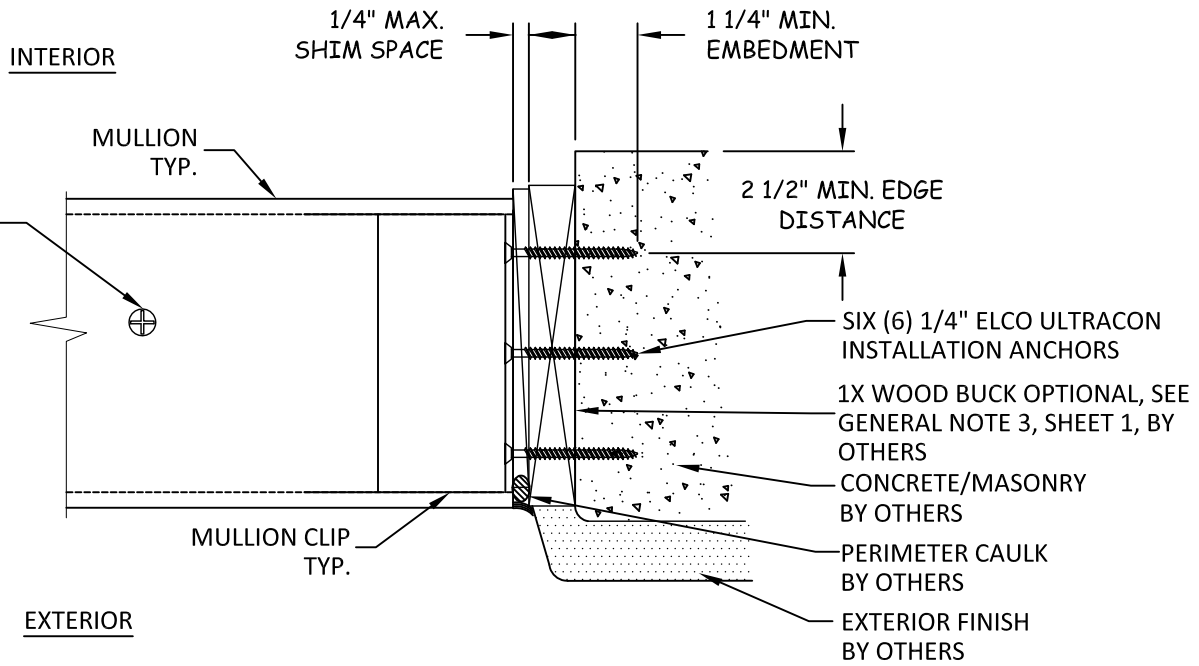
PERIMETER CAULK
BY OTHERS

EXTERIOR FINISH
BY OTHERS

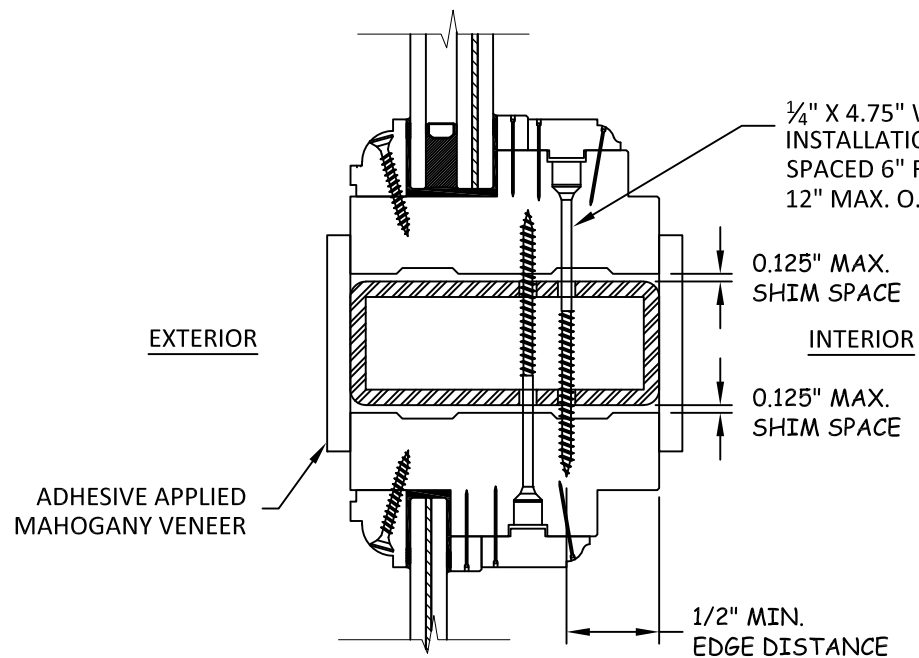
MULLION
TYP.

EXTERIOR

1/4" X 4.75" WOOD SCREW
INSTALLATION ANCHORS,
SPACED 6" FROM CORNERS AND
12" MAX. O.C. (STAGGERED)



I
6 **HORIZONTAL SECTION**
JAMB - CONCRETE/MASONRY
CLIPPED TUBE MULL



J
6 **VERTICAL SECTION**
1/4" X 2" X 5" ALUMINUM TUBE MULLION

NOTE: DIRECT SET FIXED WINDOW
FRAME SHOWN, MULLIONS MAY BE
USED WITH ANY FENESTRATION
PRODUCT TYPE.

SEE INSTALLATION NOTES 5-8,
PAGE 1, FOR MULLION CLIP
ANCHORING REQUIREMENTS.



4918 CEDAR AVENUE
PHILADELPHIA, PA 19143

PH: (215) 525-5048 FX: (215) 747-8908

TITLE: ALUMINUM CLIPPED AND
UNCLIPPED VERTICAL AND
HORIZONTAL MULLIONS
VERTICAL & HORIZONTAL SECTIONS

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE
GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR
A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION
TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN,
A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE
SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



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