

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED CHARTS	01/15/16	R.L.
B	REVISED ANCHORS	09/04/19	R.L.
C	REVISED INSTALLATION DETAILS	08/06/2020	R.L.

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
2. WOOD FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
4. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS UP TO WIND ZONE 3.
5. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #10 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/8" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 1/2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN INSTALLATION DETAILS.
6. FOR ANCHORING THROUGH FRAME INTO MASONRY/CONCRETE USE 1/4" TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
7. FOR ANCHORING THROUGH FRAME INTO METAL STRUCTURE USE #10 SMS OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL WITH 1/2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
8. ALL FASTENERS TO BE CORROSION RESISTANT.
9. 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 BELOW:
 - A. WOOD: MINIMUM SPECIFIC GRAVITY OF G=0.42
 - B. CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI.
 - C. MASONRY: HOLLOW/FILLED BLOCK PER ASTM C90 WITH f'm=2,000PSI MINIMUM.
 - D. METAL STRUCTURE: STEEL 18GA (.048") FY=33KSI/FU=52KSI OR ALUMINUM 6063-T5 FU=30KSI .125" THICK MINIMUM
10. DESIGN PRESSURE AND INSTALLATION DETAILS SHOWN IN THIS DOCUMENT APPLY ONLY TO THE MULLION. WINDOWS MUST BE APPROVED UNDER SEPARATE APPROVAL.
11. SINGLE UNITS TO BE MULLED ARE NOT LIMITED TO THOSE SHOWN IN THIS DRAWING. SINGLE UNITS TO BE MULLED TOGETHER MUST BE MANUFACTURED BY EASTERN ARCHITECTURAL SYSTEMS.
12. DESIGN PRESSURE OF MULLED UNIT SHALL BE CONTROLLED BY THE LESSER DESIGN PRESSURE OF THE MULLION OR THE INDIVIDUAL WINDOW UNIT.

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EASTERN ARCHITECTURAL SYSTEMS
A DIVISION OF
EASTERN METAL SUPPLY

16341 DOMESTIC AVE
FORT MYERS, FL 33912
800-432-2204

10300085 ALUMINUM X MULLION
REINFORCED LMI WIND ZONE 3
NOTES

DRAWN:
TJH

DWG NO.
08-00810

REV
C

SCALE NTS

DATE 07/31/09

SHEET 1 OF 9

L. ROBERTO LOMAS P.E.
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SIGNED: 08/13/2020

Luis R. Lomas P.E.
FL No.: 62514

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Maximum design pressure chart (psf) Units with 18" transom								
Height (in)		Tributary width (in)						
Window	Transom	24.00	30.00	36.00	42.00	48.00	54.00	60.00
24.00	18.00	150.0	150.0	149.8	132.7	119.2	108.1	99.0
30.00	18.00	150.0	143.2	125.6	111.8	100.8	91.7	84.2
36.00	18.00	144.5	121.8	106.7	95.5	86.4	78.9	72.6
42.00	18.00	126.6	106.0	92.2	82.5	74.9	68.6	63.3
48.00	18.00	112.6	93.8	81.2	72.2	65.6	60.2	55.7
54.00	18.00	95.6	79.3	68.6	61.2	55.8	51.7	48.5
60.00	18.00	73.4	60.8	52.5	46.7	42.5	39.4	37.0
66.00	18.00	57.5	47.6	41.0	36.4	33.1	30.6	28.7
72.00	18.00	45.9	37.9	32.6	28.9	26.2	24.2	22.6

IMPACT RATED UP TO WIND ZONE 3

Maximum design pressure chart (psf) Units with 24" transom								
Height (in)		Tributary width (in)						
Window	Transom	24.00	30.00	36.00	42.00	48.00	54.00	60.00
24.00	24.00	150.0	145.8	127.6	113.4	102.0	92.8	85.0
30.00	24.00	145.8	124.6	109.6	97.8	88.3	80.4	73.9
36.00	24.00	127.6	108.1	94.9	85.0	77.0	70.4	64.8
42.00	24.00	113.4	95.5	83.3	74.6	67.7	62.1	57.3
48.00	24.00	99.9	82.3	70.6	62.4	56.4	51.6	47.5
54.00	24.00	76.9	63.3	54.3	48.0	43.3	39.7	36.8
60.00	24.00	60.4	49.6	42.5	37.5	33.9	31.1	28.9
66.00	24.00	48.1	39.5	33.9	29.9	26.9	24.7	22.9
72.00	24.00	39.0	32.0	27.4	24.1	21.7	19.9	18.4

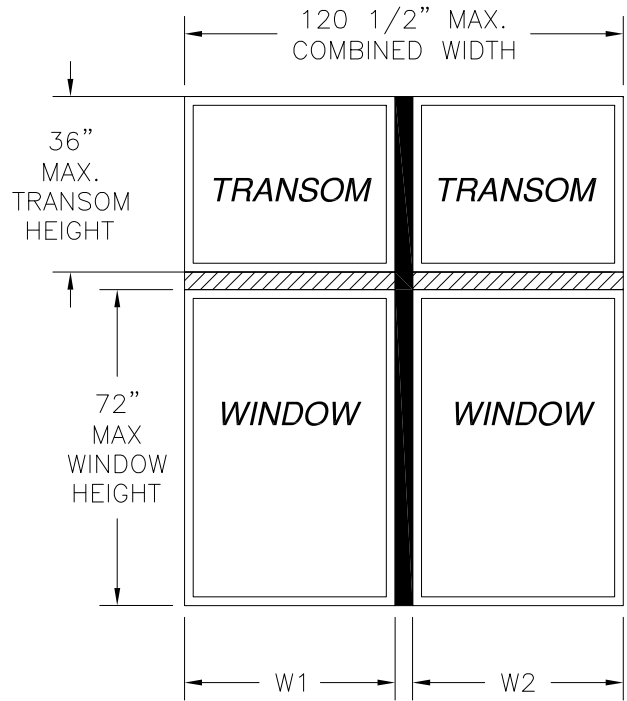
IMPACT RATED UP TO WIND ZONE 3

Maximum design pressure chart (psf) Units with 30" transom								
Height (in)		Tributary width (in)						
Window	Transom	24.00	30.00	36.00	42.00	48.00	54.00	60.00
24.00	30.00	145.8	124.6	109.6	97.8	88.3	80.4	73.9
30.00	30.00	127.6	108.8	96.0	85.9	77.7	71.0	65.3
36.00	30.00	113.4	96.0	84.6	75.9	68.9	63.0	58.1
42.00	30.00	102.0	84.2	72.0	63.3	56.6	51.2	46.7
48.00	30.00	79.4	65.1	55.6	48.8	43.8	39.8	36.5
54.00	30.00	62.5	51.2	43.7	38.4	34.4	31.4	28.9
60.00	30.00	50.0	40.9	34.9	30.6	27.5	25.0	23.1
66.00	30.00	40.5	33.1	28.3	24.8	22.2	20.2	18.7
72.00	30.00	33.3	27.2	23.2	20.3	18.2	16.6	15.3

IMPACT RATED UP TO WIND ZONE 3

Maximum design pressure chart (psf) Units with 36" transom								
Height (in)		Tributary width (in)						
Window	Transom	24.00	30.00	36.00	42.00	48.00	54.00	60.00
24.00	36.00	127.6	108.1	94.9	85.0	77.0	70.4	64.8
30.00	36.00	113.4	96.0	84.6	75.9	68.9	63.0	58.1
36.00	36.00	102.0	84.8	72.5	63.5	56.6	51.0	46.4
42.00	36.00	80.6	66.0	56.3	49.4	44.0	39.7	36.2
48.00	36.00	63.9	52.2	44.5	38.9	34.8	31.5	28.8
54.00	36.00	51.3	41.9	35.6	31.2	27.8	25.3	23.2
60.00	36.00	41.7	34.0	28.9	25.3	22.6	20.5	18.8
66.00	36.00	34.3	28.0	23.8	20.8	18.5	16.8	15.5
72.00	36.00	28.5	23.2	19.7	17.2	15.4	-	-

IMPACT RATED UP TO WIND ZONE 3



10300085 ALUMINUM X MULLION
REINFORCED LMI WIND ZONE 3

$$\text{TRIBUTARY WIDTH} = \frac{W1 + W2}{2}$$

DESIGN PRESSURE TABLE INSTRUCTIONS:

1. DEFINE REQUIRED DESIGN LOAD PER FLORIDA BUILDING CODE CHAPTER 16.
2. DETERMINE TRIBUTARY WIDTH AND MULLION SPAN BASED ON PRODUCT TO BE INSTALLED. SEE FORMULA FOR TRIBUTARY WIDTH.
3. LOCATE MULLION SPAN (UNIT HEIGHT) AND TRIBUTARY WIDTH. AT THE INTERSECTION OF ROW AND COLUMN CONTAINING THE MULLION SPAN AND TRIBUTARY WIDTH RESPECTIVELY IS THE MULLION RATING FOR PRODUCT IN STEP 2. MULLION RATING MUST BE EQUAL OR GREATER THAN REQUIRED DESIGN PRESSURE OBTAINED IN STEP 1.



EASTERN ARCHITECTURAL SYSTEMS
A DIVISION OF
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16341 DOMESTIC AVE
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800-432-2204

10300085 ALUMINUM X MULLION
REINFORCED LMI WIND ZONE 3
ELEVATION AND DESIGN PRESSURE CHARTS

DRAWN:
TJH

DWG NO.
08-00810

REV
C

SCALE
NTS

DATE
07/31/09

SHEET
2 OF 9

L. ROBERTO LOMAS P.E.
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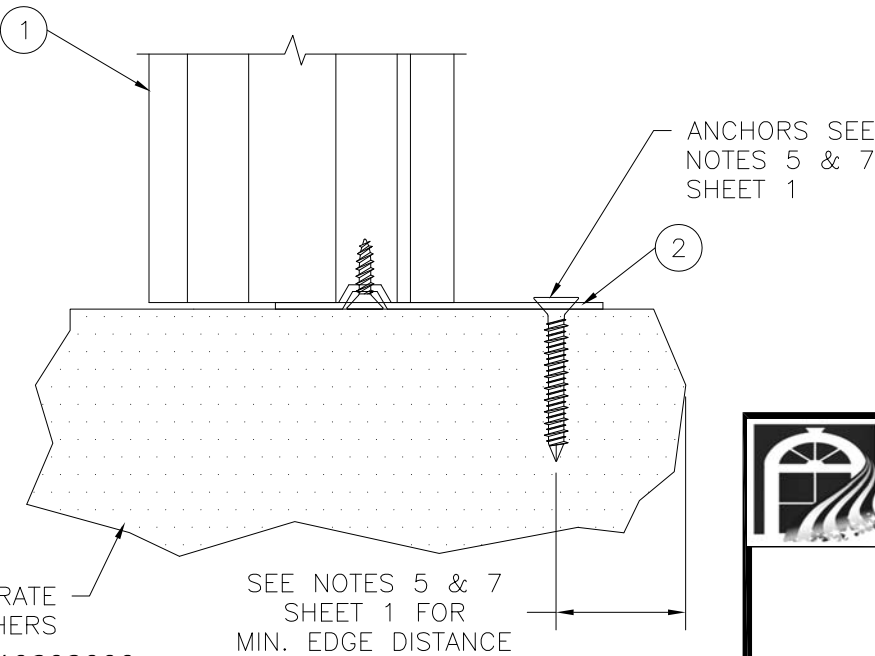
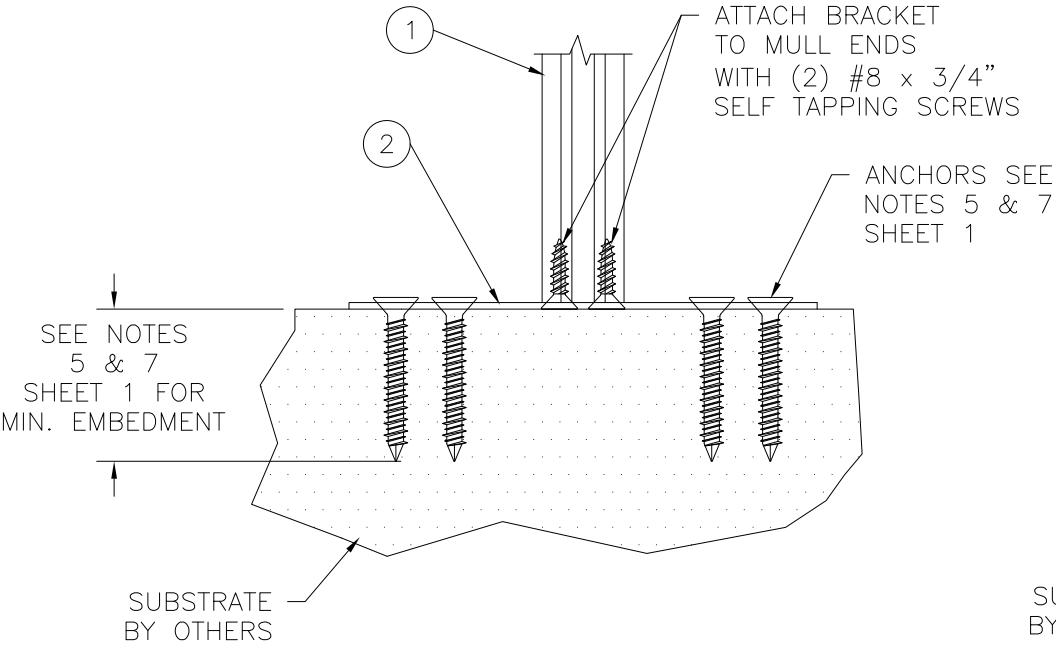
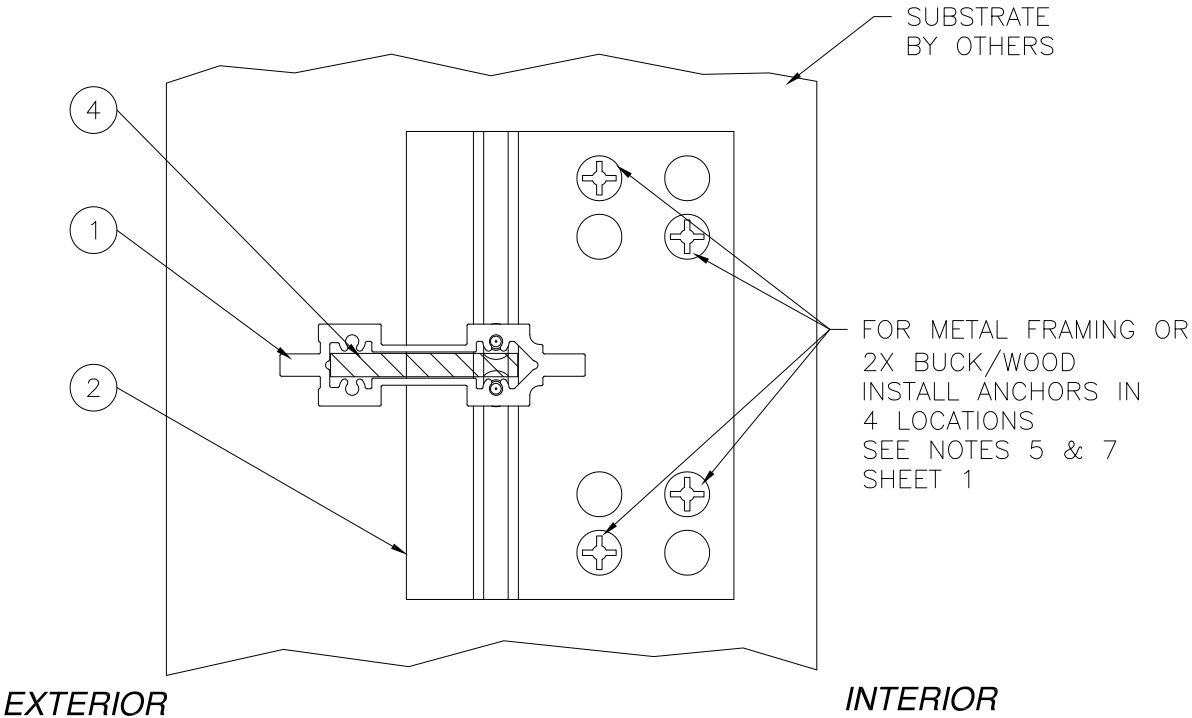
SIGNED: 08/13/2020



Luis R. Lomas P.E.
FL No.: 62514

PARTS LIST				
NO.	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL
1	10300085	ALUMINUM VERTICAL MULLION	DECEUNINCK	ALUMINUM 6005-T5
2	10203000	15GA. STEEL MULLION BRACKET	DECEUNINCK	GALVANIZED STEEL
3	10300093	MULL CLIP	DECEUNINCK	ALUMINUM 6005-T5
4		MULLION REINFORCEMENT		STEEL
5	FS-02354	MULLION CLIP		ALUMINUM 6063-T6

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STEEL MULION BRACKET 10203000
INSTALLATION DETAILS
SILL, HEAD AND JAMBS TYP.
FOR WOOD AND METAL INSTALLATION



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10300085 ALUMINUM X MULLION
REINFORCED LMI WIND ZONE 3
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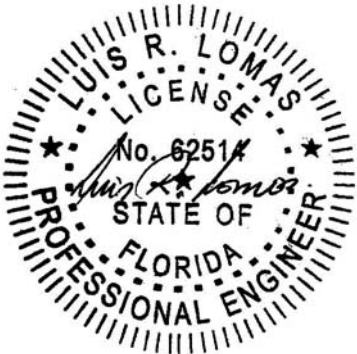
SCALE NTS

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SHEET 3 OF 9

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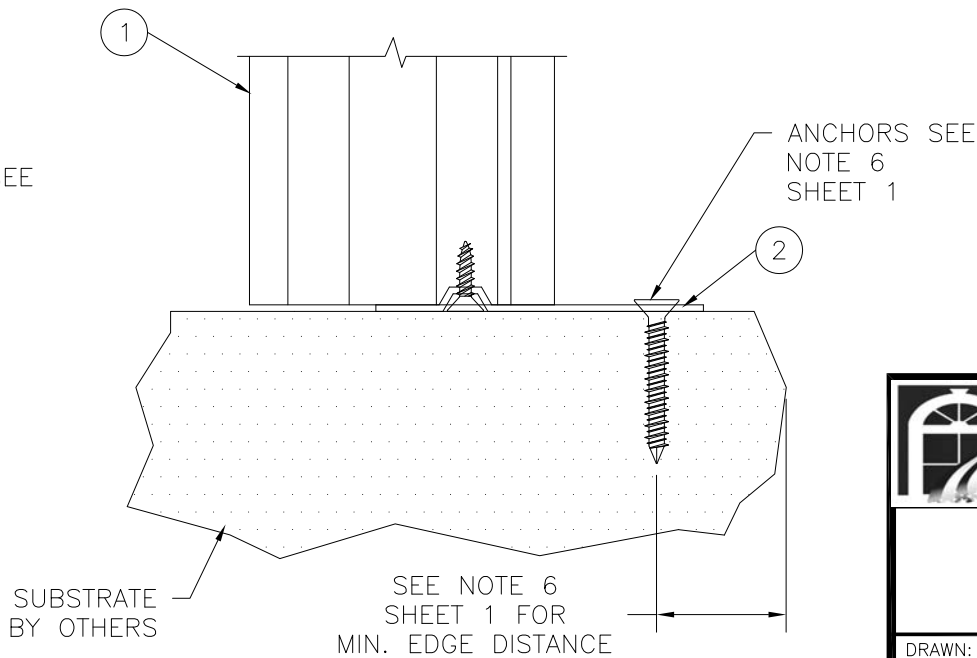
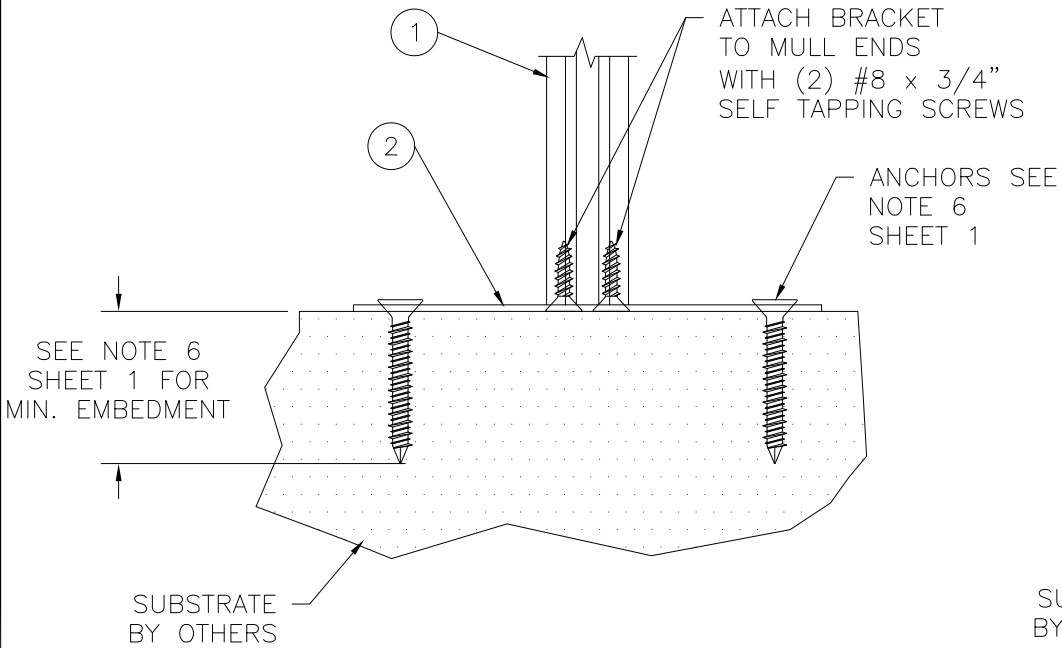
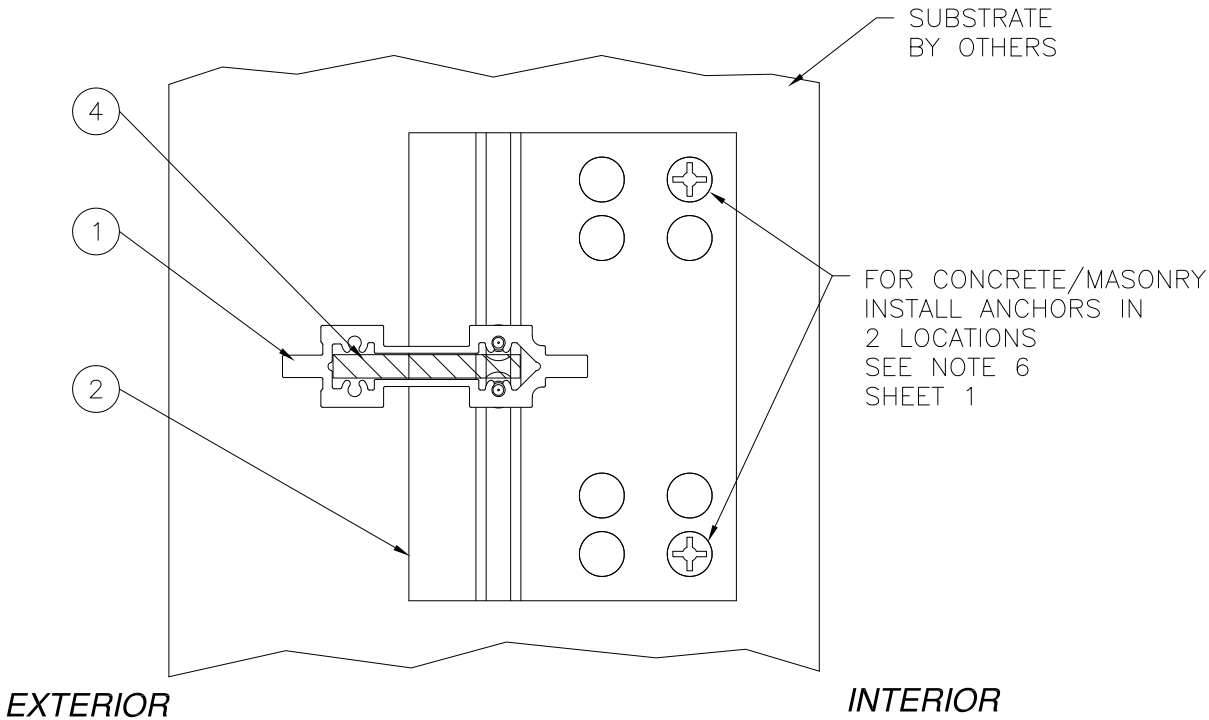
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STEEL MULION BRACKET 10203000
INSTALLATION DETAILS
SILL, HEAD AND JAMBS TYP.
CONCRETE/MASONRY INSTALLATION



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10300085 ALUMINUM X MULLION
REINFORCED LMI WIND ZONE 3
INSTALLATION DETAILS

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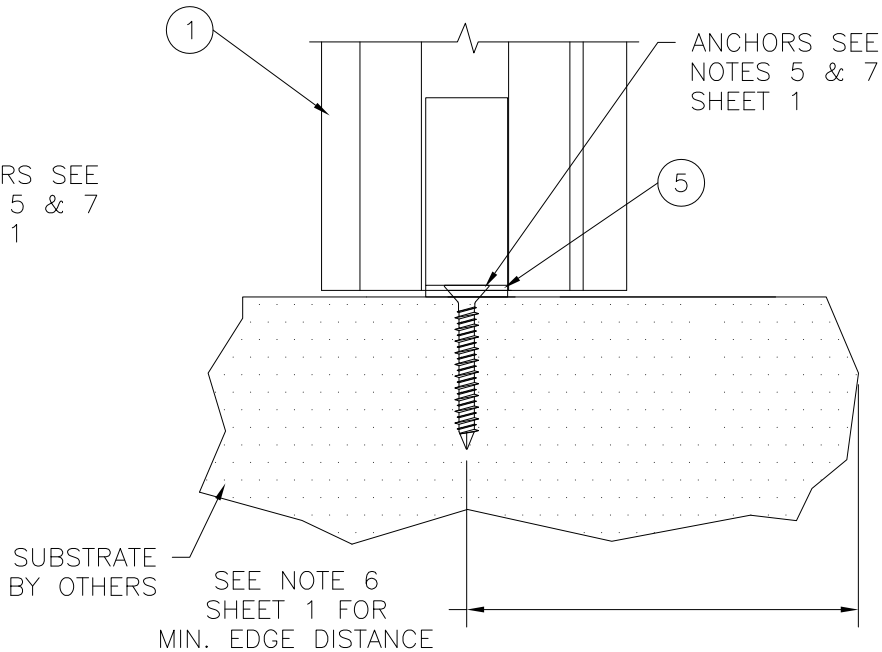
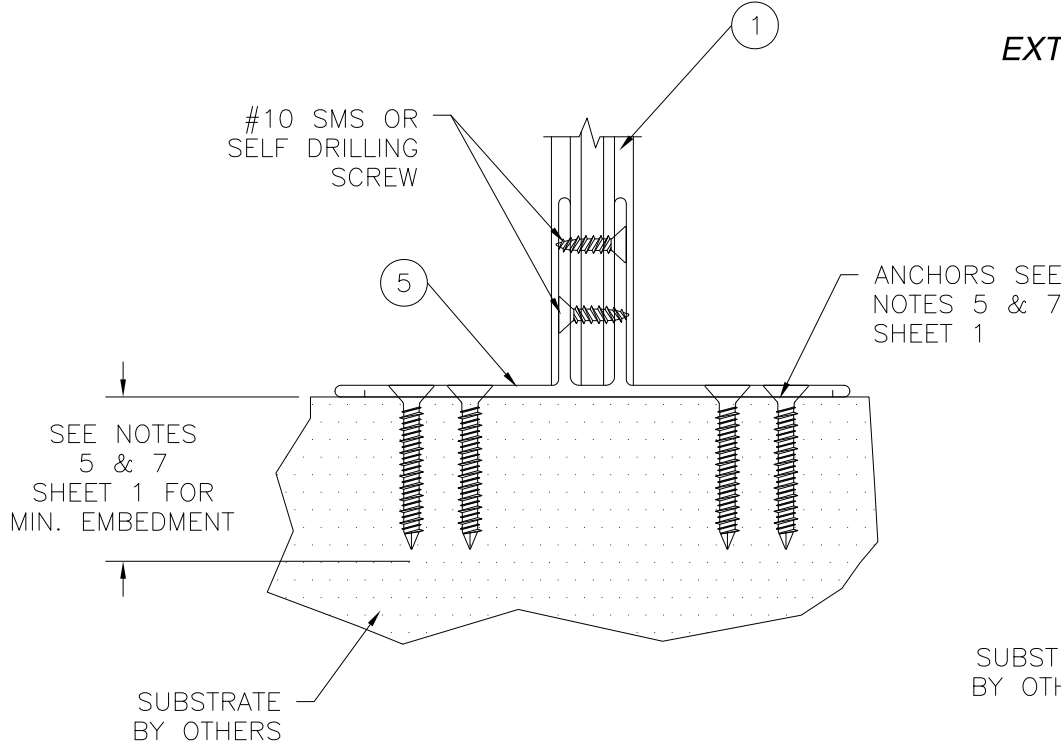
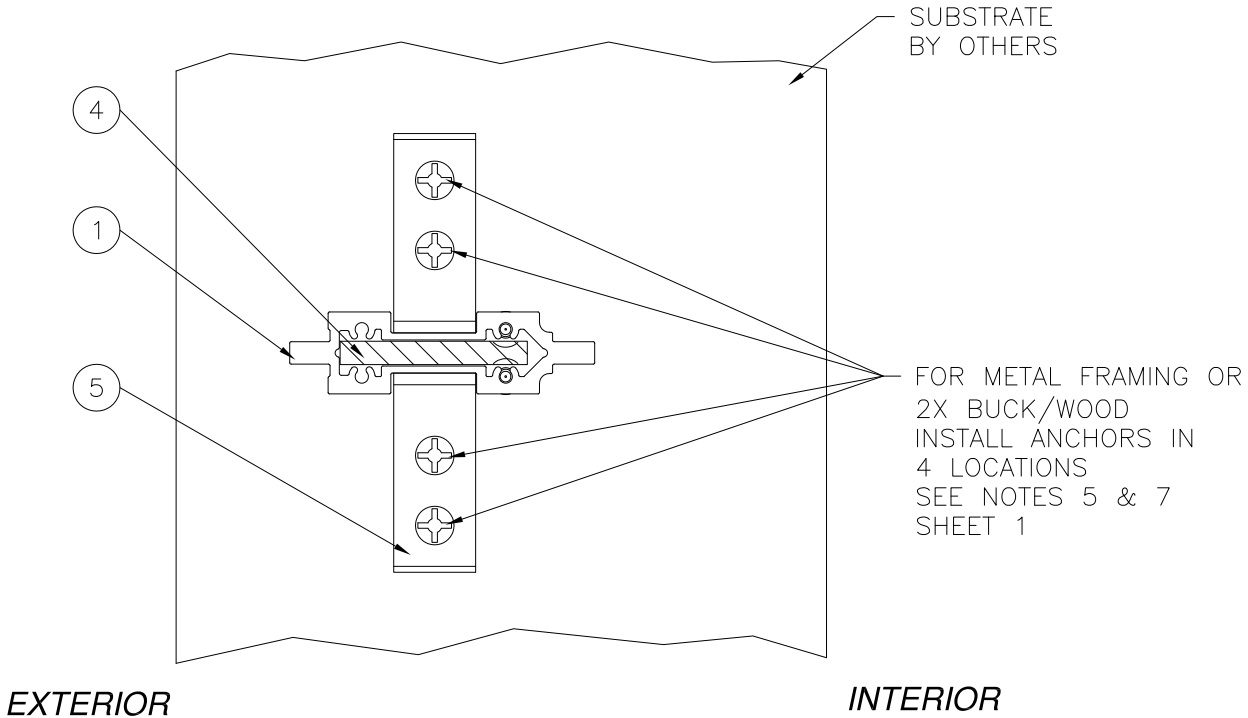
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**FS-02354 MULLION CLIP
INSTALLATION DETAILS**
SILL, HEAD AND JAMBS TYP.
FOR WOOD AND METAL INSTALLATION



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10300085 ALUMINUM X MULLION
REINFORCED LMI WIND ZONE 3
INSTALLATION DETAILS

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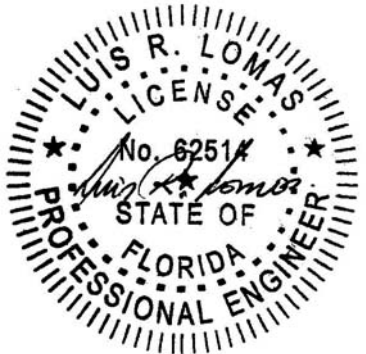
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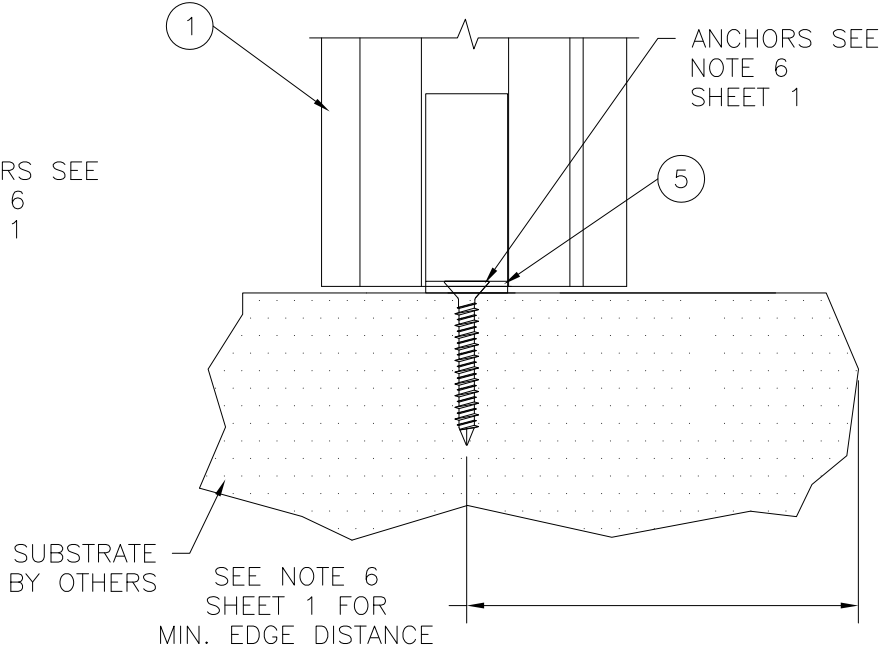
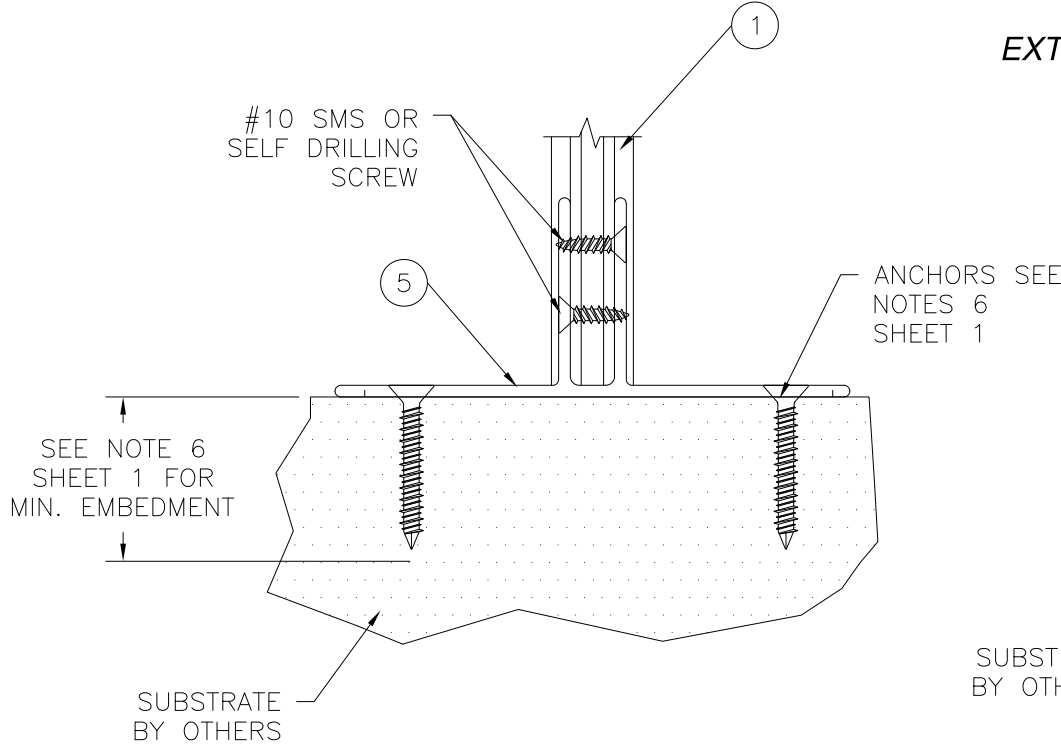
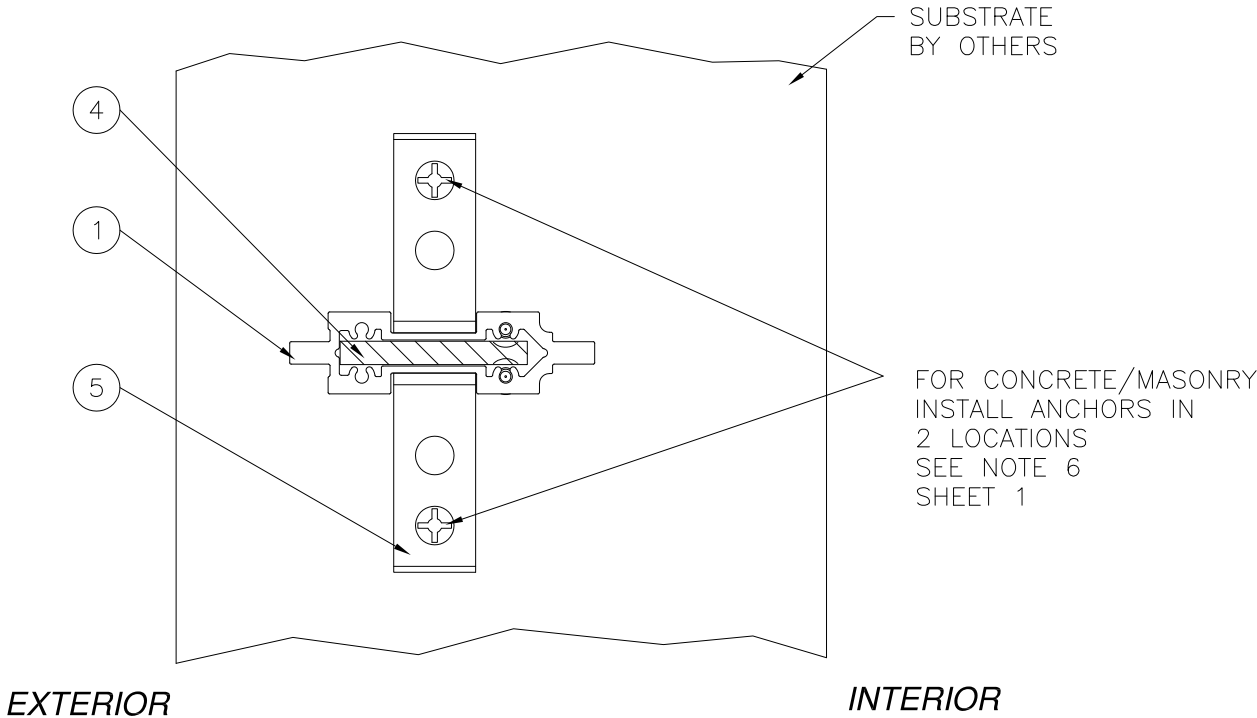
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FS-02354 MULLION CLIP
INSTALLATION DETAILS
SILL, HEAD AND JAMBS TYP.
FOR CONCRETE/MASONRY INSTALLATION



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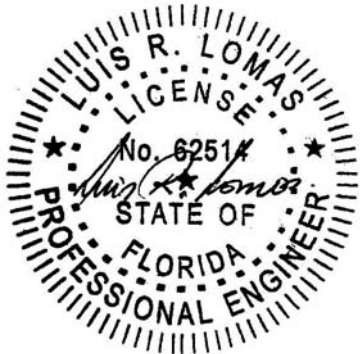
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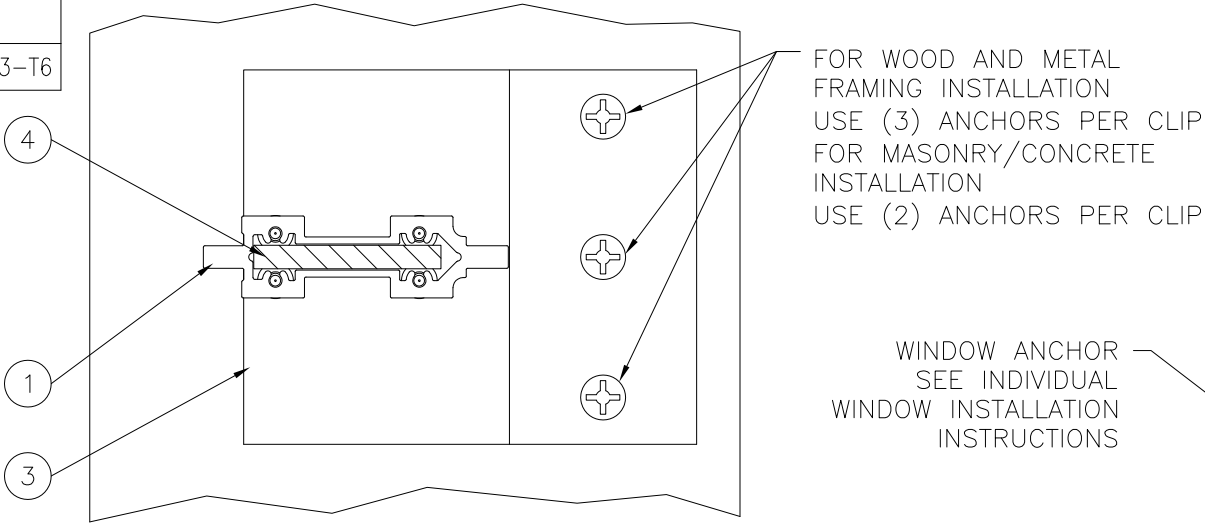
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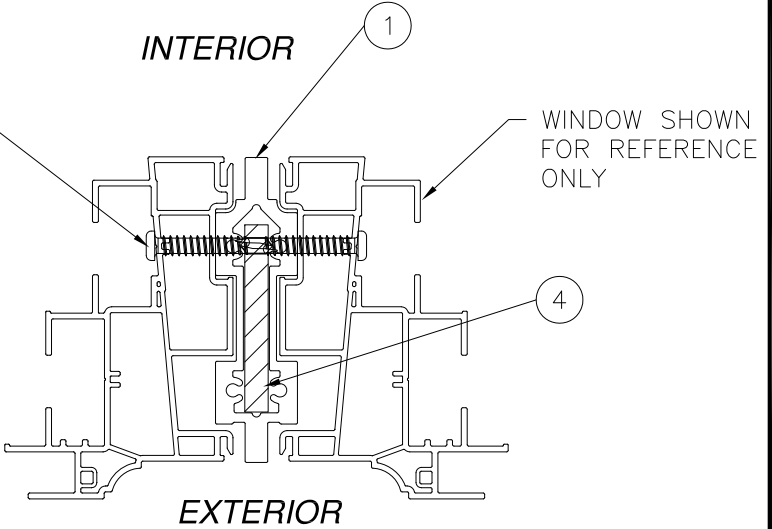
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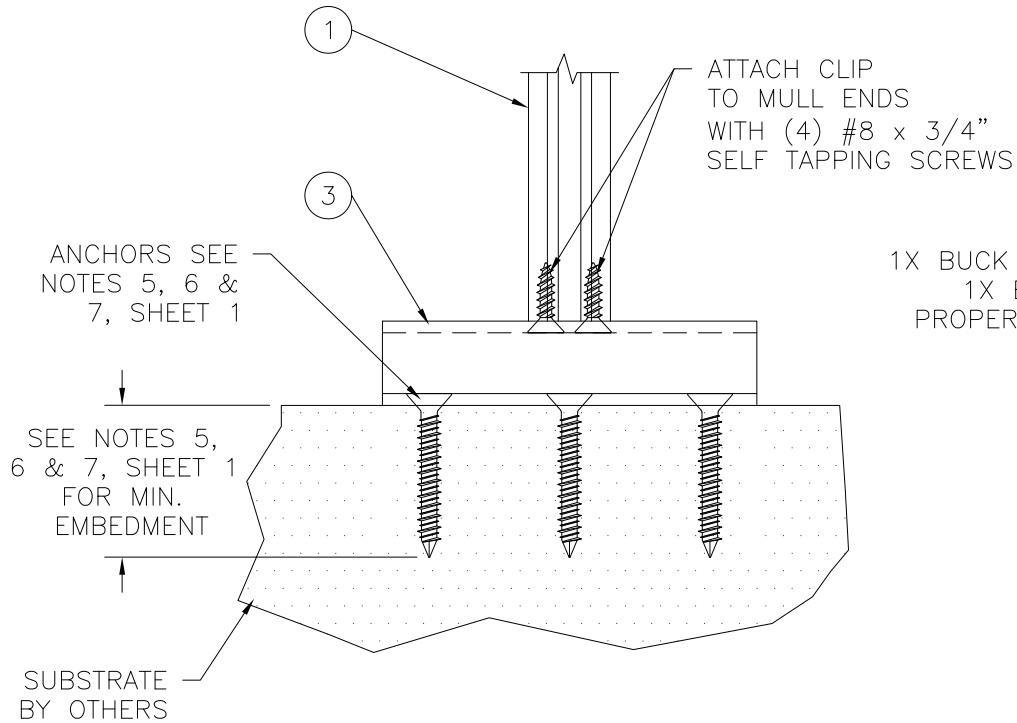


FOR WOOD AND METAL
FRAMING INSTALLATION
USE (3) ANCHORS PER CLIP
FOR MASONRY/CONCRETE
INSTALLATION
USE (2) ANCHORS PER CLIP

WINDOW ANCHOR
SEE INDIVIDUAL
WINDOW INSTALLATION
INSTRUCTIONS

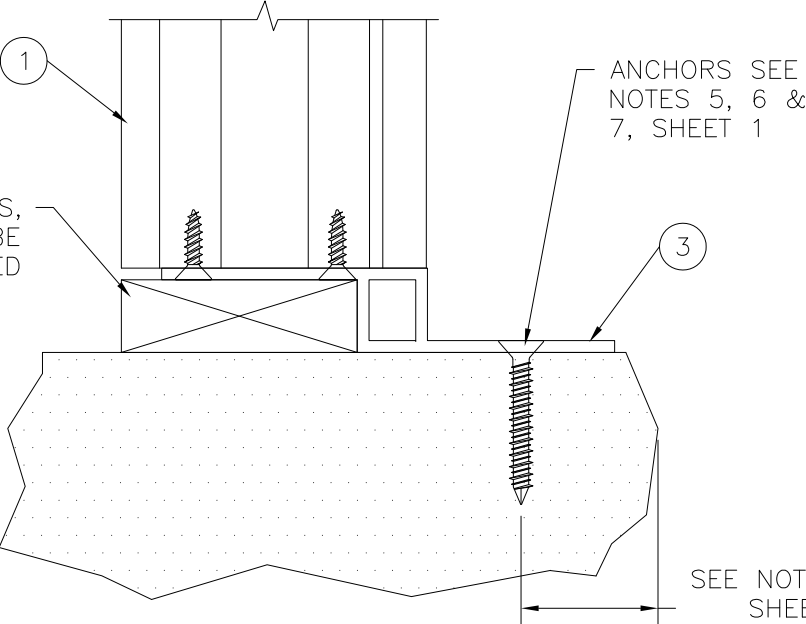


WINDOW TO MULLION INSTALLATION DETAIL



ATTACH CLIP
TO MULL ENDS
WITH (4) #8 x 3/4"
SELF TAPPING SCREWS

1X BUCK BY OTHERS,
1X BUCK TO BE
PROPERLY SECURED



ANCHORS SEE
NOTES 5, 6 &
7, SHEET 1

SEE NOTES 5, 6 & 7
SHEET 1 FOR
MIN. EDGE DISTANCE

MULL CLIP 10300093
INSTALLATION DETAILS
SILL, HEAD AND JAMBS TYP.



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REINFORCED LMI WIND ZONE 3
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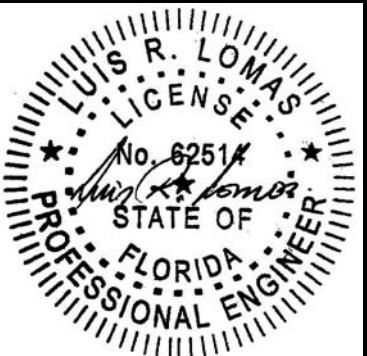
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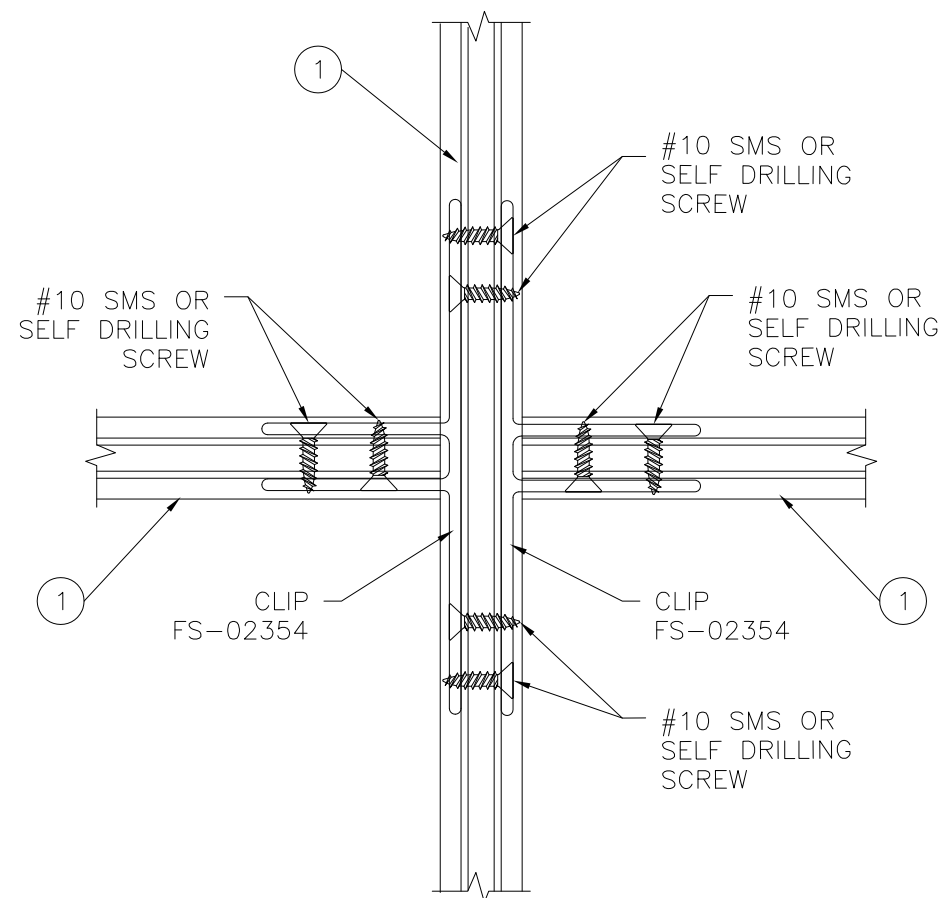
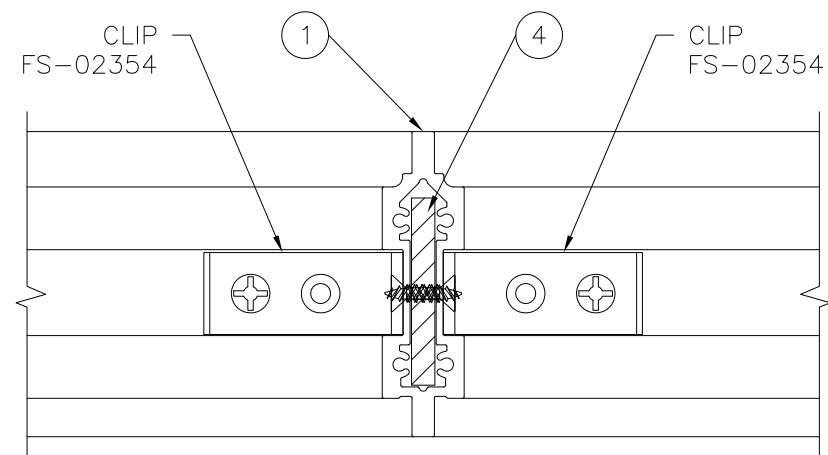
SHEET 7 OF 9

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HORIZONTAL TO VERTICAL MULLION CONNECTION

REVISIONS			
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A	REVISED CHARTS	01/15/16	R.L.
B	REVISED ANCHORS	09/04/19	R.L.
C	REVISED INSTALLATION DETAILS	08/06/2020	R.L.

SIGNED: 08/13/2020



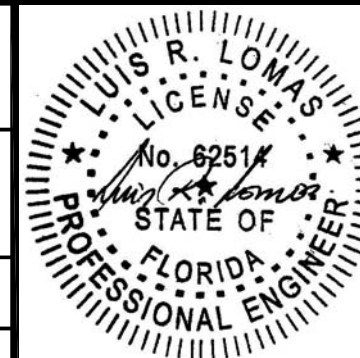
EASTERN ARCHITECTURAL SYSTEMS
A DIVISION OF
EASTERN METAL SUPPLY

16341 DOMESTIC AVE
FORT MYERS, FL 33912
800-432-2204

10300085 ALUMINUM X MULLION
REINFORCED LMI WIND ZONE 3
INSTALLATION DETAILS

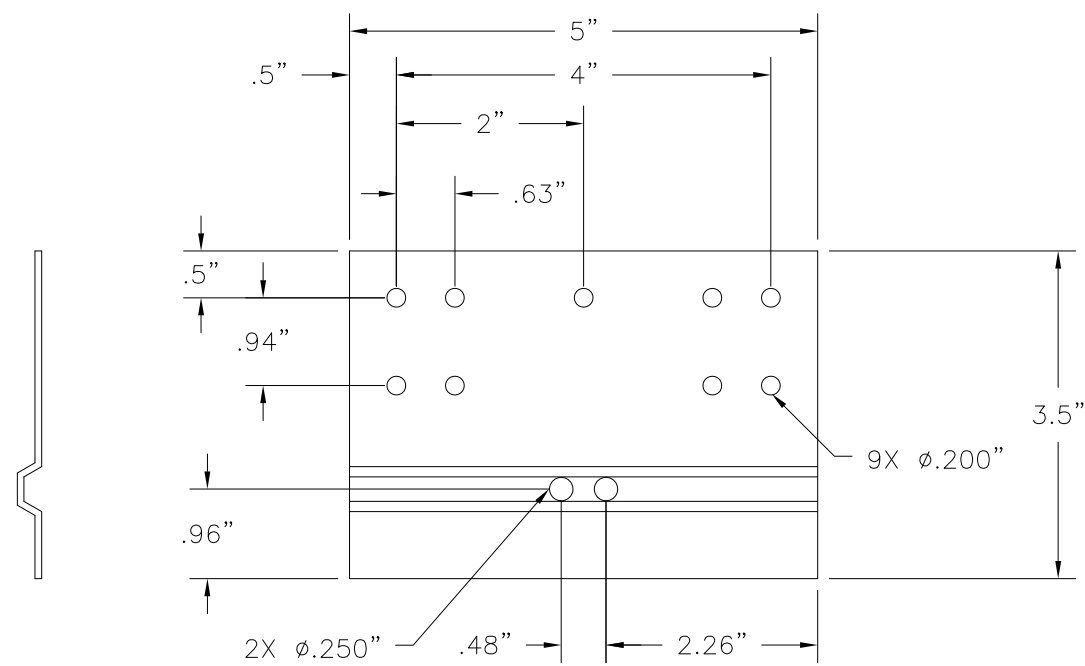
DRAWN: TJH	DWG NO. 08-00810	REV C
SCALE NTS	DATE 07/31/09	SHEET 8 OF 9

L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@lrlomaspe.com

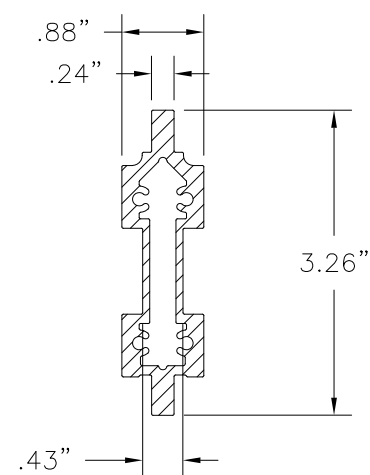


Luis R. Lomas P.E.
FL No.: 62514

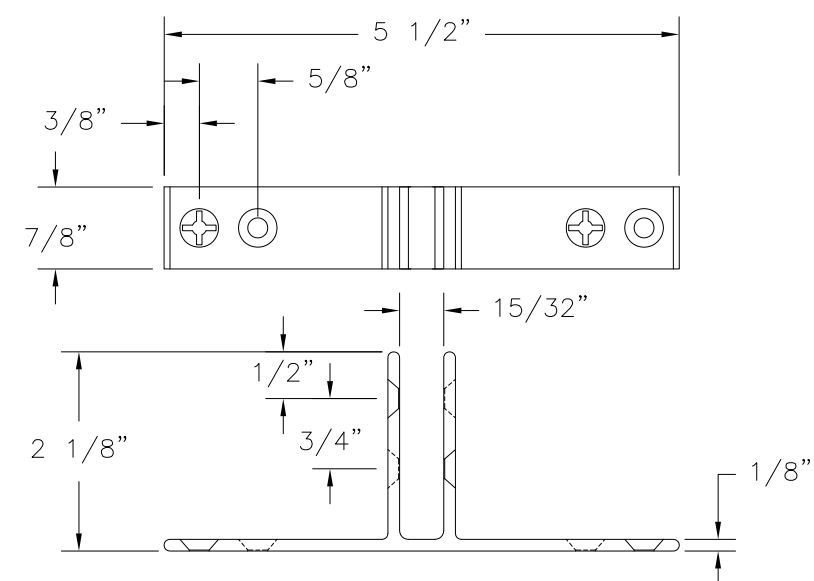
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED CHARTS	01/15/16	R.L.
B	REVISED ANCHORS	09/04/19	R.L.
C	REVISED INSTALLATION DETAILS	08/06/2020	R.L.



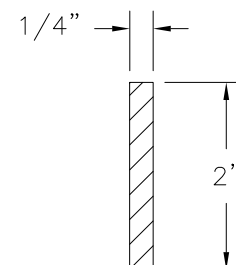
② **STEEL MULLION BRACKET**
15GA. GALVANIZED STEEL



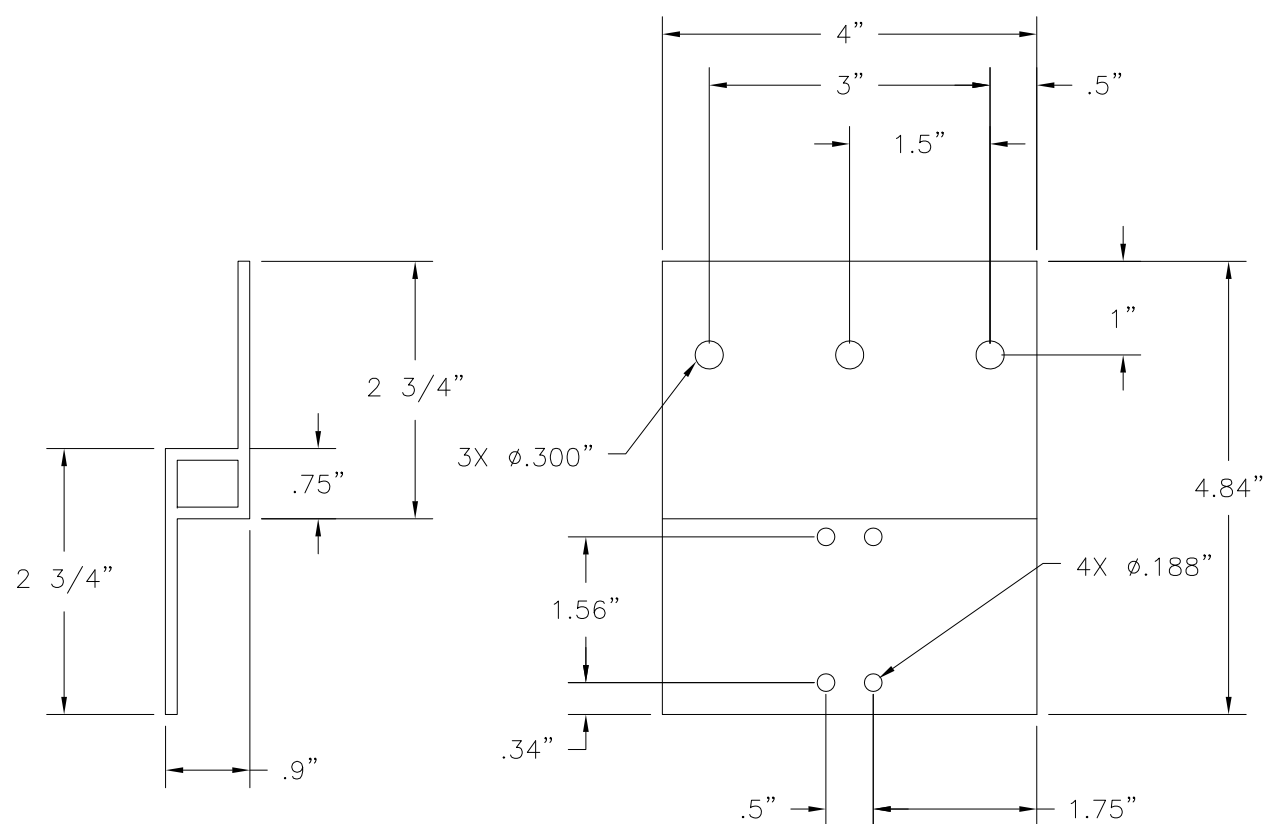
① **10300085 ALUMINUM VERTICAL MULLION**
ALUMINUM 6005-T5 .075" THICK



⑤ **FS-02354 MULLION CLIP**
ALUMINUM 6063-T6 .125" THICK



④ **MULLION REINFORCEMENT**
STEEL 1/4" THICK



③ **MULL CLIP**
ALUMINUM 6005-T5 .125" THICK



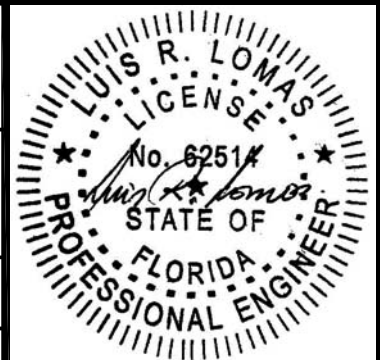
EASTERN ARCHITECTURAL SYSTEMS
A DIVISION OF
EASTERN METAL SUPPLY
16341 DOMESTIC AVE
FORT MYERS, FL 33912
800-432-2204

10300085 ALUMINUM X MULLION
REINFORCED LMI WIND ZONE 3
COMPONENTS

DRAWN: TJH	DWG NO. 08-00810	REV C
SCALE NTS	DATE 07/31/09	SHEET 9 OF 9

L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
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SIGNED: 08/13/2020



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