

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

NOTES:

- 1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
- 2. WOOD FRAMING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
- 3. ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. 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. DESIGN PRESSURE AND INSTALLATION DETAILS SHOWN IN THIS DOCUMENT APPLY ONLY TO MULLION. WINDOWS MUST BE APPROVED UNDER SEPARATE APPROVAL.
- 6. SINGLE WINDOWS TO BE MULLED ARE NOT LIMITED TO THOSE SHOWN IN THIS DRAWING. WINDOWS MUST BE MANUFACTURED BY VIWINCO INC.
- 7. DESIGN PRESSURE OF MULLED UNIT SHALL BE CONTROLLED BY THE LESSER DESIGN PRESSURE OF THE MULLION OR THE INDIVIDUAL WINDOW UNIT.
- 8. UNITS MAY BE MULLED TOGETHER INDEFINITELY AS LONG AS SINGLE UNIT WIDTH AND HEIGHT ARE NOT EXCEEDED AND MULLION IS ANCHORED AS SHOWN HEREIN.
- 9. MULLION VERTICAL INSTALLATION IS SHOWN, MULLION MAY BE USED IN HORIZONTAL APPLICATIONS AS LONG AS DIMENSIONS INDICATED HEREIN ARE NOT EXCEEDED AND MULLION IS ANCHORED ACCORDING TO THIS DOCUMENT.

ANCHORING NOTES:

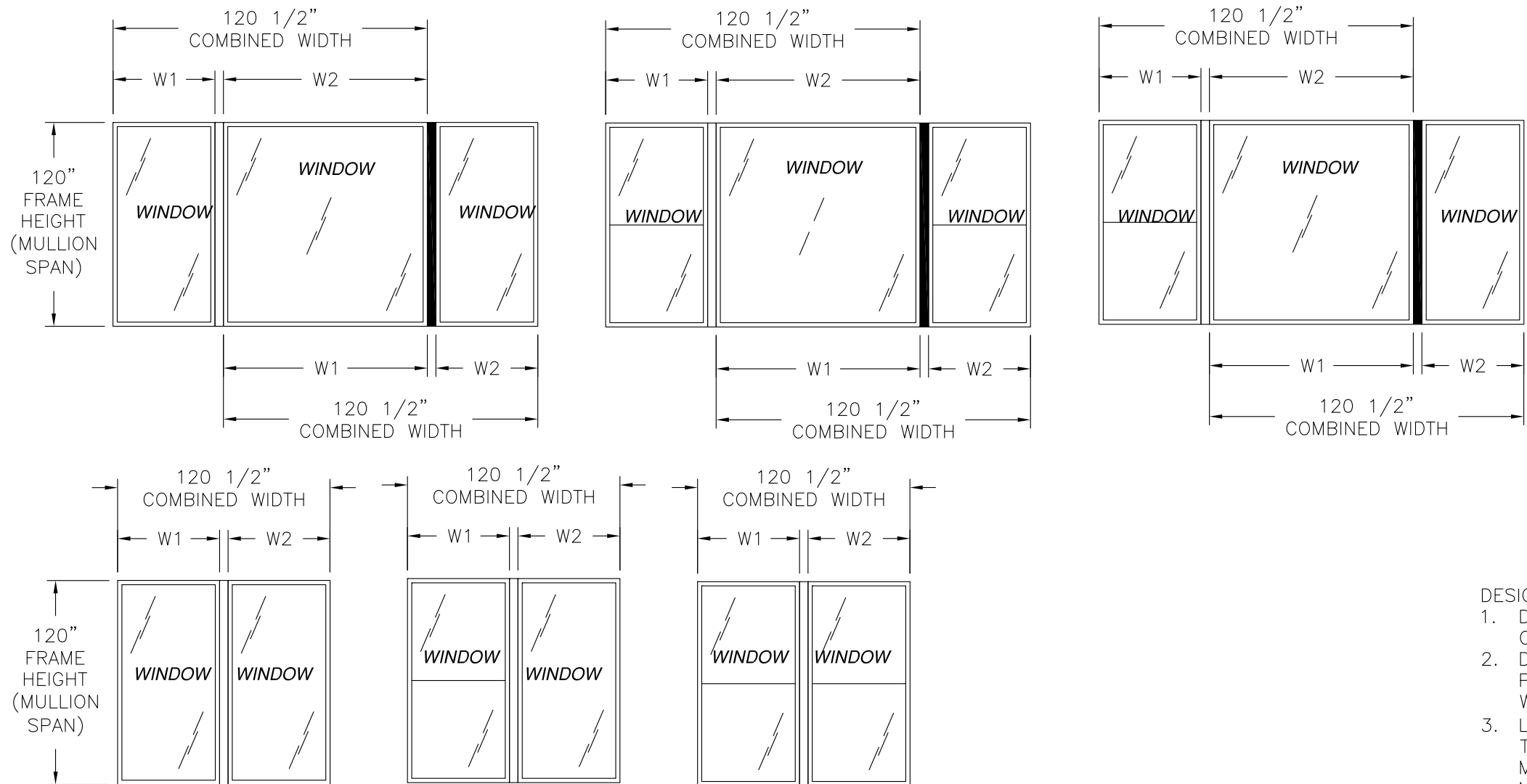
- 1. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #8 WOOD SCREW WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT. LOCATE ANCHORS AS SHOWN IN INSTALLATION DETAILS SHEET 3.
- 2. FOR ANCHORING INTO CONCRETE USE 3/16" TAPCON WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT WITH 2 1/2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN INSTALLATION DETAILS SHEET 4.
- 3. FOR ANCHORING INTO METAL STRUCTURE USE #8 SMS OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
- 4. FOR ATTACHING WINDOW UNITS TO MULLION USE #8 SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A MINIMUM EMBEDMENT OF THREE THREADS PAST THE MULLION WALL. LOCATE SCREWS IN ACCORDANCE WITH WINDOW ANCHORING SCHEDULE AS SHOWN IN WINDOW SEPARATE APPROVAL.
- 5. ALL FASTENERS TO BE CORROSION RESISTANT.
- 6. 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 3,200 PSI.
 - C. MASONRY – STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
 - D. METAL STRUCTURE: STEEL 18GA (.048") FY=33KSI/FU=52KSI OR ALUMINUM 6063-T5 FU=30KSI 1/8" THICK MINIMUM
- 7. TO ATTACH CLIP TO MULLION USE (2) #8 x 3/4" SELF DRILLING SCREWS PER CLIP.
- 8. ATTACH MULLION TO WINDOW FRAME USING #8 X 3/4" SELF DRILLING SCREWS LOCATED 1" FROM EACH END AND 8" MAX. O.C. THEREAFTER.

SIGNED: 03/02/2016

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	NOTES
2 – 3	APPROVED CONFIGURATIONS AND CHARTS
4 – 6	INSTALLATION DETAILS
7	COMPONENTS

VIWINCO, INC MORGANTOWN BUSINESS PARK P.O. BOX 499 MORGANTOWN, PA 19543		
OCEAN VIEW ALUMINUM VERTICAL MULLION IMPACT NOTES		
DRAWN: N.G.	DWG NO. 08-02884	REV —
SCALE NTS	DATE 03/1/16	SHEET 1 OF 7





REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

- 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.

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

APPROVED CONFIGURATIONS

Design pressure rating (psf)							
Mullion span (in)	Tributary width (in)						
	24.00	30.00	36.00	42.00	48.00	54.00	60.00
24.00	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30.00	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36.00	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42.00	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48.00	120.0	120.0	120.0	120.0	120.0	120.0	120.0
54.00	120.0	120.0	120.0	119.8	115.3	113.9	113.9
60.00	120.0	120.0	109.8	101.3	96.1	93.2	92.2
66.00	120.0	108.5	96.1	87.8	82.3	78.8	76.8
72.00	115.3	97.1	85.4	77.5	71.0	66.2	62.9
78.00	104.8	86.7	74.0	65.2	59.0	54.5	51.3
84.00	85.0	69.3	59.1	52.1	47.1	43.5	40.8
90.00	68.8	56.0	47.6	41.8	37.6	34.5	32.2
96.00	56.5	45.9	38.9	34.1	30.5	27.9	25.9
102.00	47.0	38.1	32.2	28.1	25.2	22.9	21.2
108.00	39.5	31.9	27.0	23.5	21.0	19.1	17.6
114.00	33.5	27.1	22.8	19.9	17.7	16.0	-
120.00	28.7	23.2	19.5	16.9	15.1	-	-

IMPACT RATED UP TO WIND ZONE 3

SIGNED: 03/02/2016

VIWINCO, INC

MORGANTOWN BUSINESS PARK P.O. BOX 499
MORGANTOWN, PA 19543

OCEAN VIEW ALUMINUM VERTICAL MULLION
IMPACT
APPROVED CONFIGURATIONS

DRAWN:
N.G.

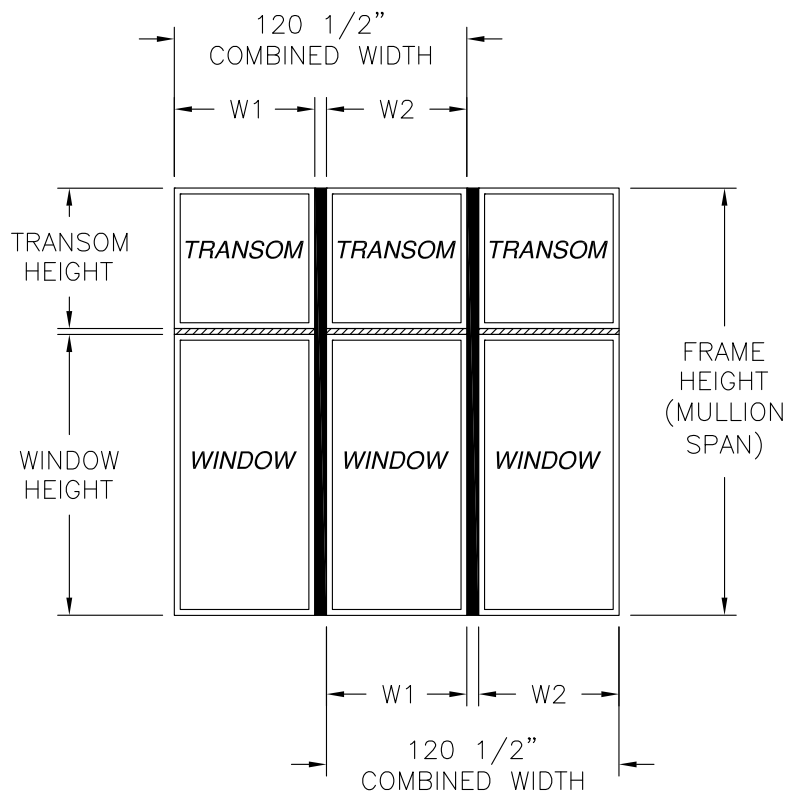
DWG NO.
08-02884

REV
-

SCALE
NTS

DATE
03/1/16

SHEET
2 OF 7



VX CONFIGURATION

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
36.00	18.00	150.0	136.8	119.0	106.0	95.5	86.9	79.7
42.00	18.00	128.9	107.3	93.2	83.3	75.7	69.3	64.0
48.00	18.00	103.8	86.2	74.7	66.6	60.7	56.0	52.0
54.00	18.00	85.2	70.6	61.0	54.3	49.3	45.6	42.6
60.00	18.00	71.1	58.8	50.7	45.0	40.8	37.7	35.2
66.00	18.00	60.2	49.7	42.8	37.9	34.3	31.6	29.5
72.00	18.00	51.6	42.5	36.5	32.3	29.2	26.8	25.0
78.00	18.00	44.7	36.8	31.5	27.8	25.1	23.0	21.4
84.00	18.00	38.7	31.8	27.3	24.1	21.8	20.0	18.5

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
36.00	24.00	132.7	110.2	95.2	84.2	75.4	68.3	62.4
42.00	24.00	107.2	88.8	76.6	67.9	61.2	55.7	51.1
48.00	24.00	88.2	72.9	62.8	55.5	50.2	46.0	42.4
54.00	24.00	73.7	60.8	52.3	46.2	41.7	38.2	35.4
60.00	24.00	62.4	51.4	44.1	38.9	35.1	32.1	29.8
66.00	24.00	53.5	44.0	37.7	33.2	29.9	27.4	25.4
72.00	24.00	46.3	38.0	32.5	28.6	25.7	23.5	21.8
78.00	24.00	40.4	33.2	28.3	24.9	22.4	20.4	18.9
84.00	24.00	33.6	27.6	23.5	20.7	18.6	17.0	15.7

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
36.00	30.00	108.9	90.3	77.8	68.6	61.4	55.5	50.6
42.00	30.00	90.0	74.4	64.0	56.5	50.7	46.0	42.1
48.00	30.00	75.5	62.2	53.4	47.1	42.4	38.6	35.5
54.00	30.00	64.1	52.7	45.2	39.8	35.7	32.6	30.1
60.00	30.00	55.0	45.2	38.6	34.0	30.5	27.8	25.7
66.00	30.00	47.6	39.1	33.4	29.3	26.3	24.0	22.1
72.00	30.00	41.6	34.1	29.1	25.5	22.9	20.8	19.2
78.00	30.00	35.0	28.6	24.4	21.3	19.1	17.4	16.0
84.00	30.00	29.4	24.0	20.4	17.9	16.0	-	-

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
36.00	36.00	90.6	74.9	64.5	56.9	50.9	46.0	42.0
42.00	36.00	76.4	62.9	54.0	47.7	42.8	38.8	35.4
48.00	36.00	65.1	53.5	45.8	40.4	36.2	32.9	30.2
54.00	36.00	56.0	46.0	39.3	34.6	31.0	28.2	25.9
60.00	36.00	48.6	39.8	34.0	29.9	26.8	24.3	22.4
66.00	36.00	42.5	34.8	29.7	26.1	23.3	21.2	19.5
72.00	36.00	36.2	29.5	25.1	21.9	19.5	17.7	16.3
78.00	36.00	30.4	24.7	21.0	18.3	16.4	-	-
84.00	36.00	25.7	20.9	17.8	15.5	-	-	-

IMPACT RATED UP TO WIND ZONE 3

- 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.

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

VIWINCO, INC

MORGANTOWN BUSINESS PARK P.O. BOX 499
MORGANTOWN, PA 19543

OCEAN VIEW ALUMINUM VERTICAL MULLION
IMPACT
APPROVED CONFIGURATIONS

DRAWN:
N.G.

DWG NO.
08-02884

REV
—

SCALE
NTS

DATE
03/1/16

SHEET
3 OF 7

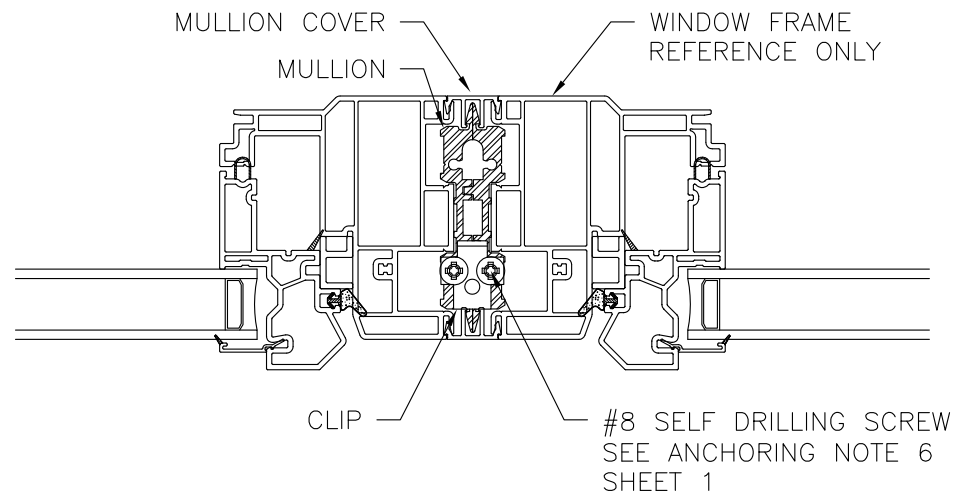
SIGNED: 03/02/2016

LUIS R. LOMAS

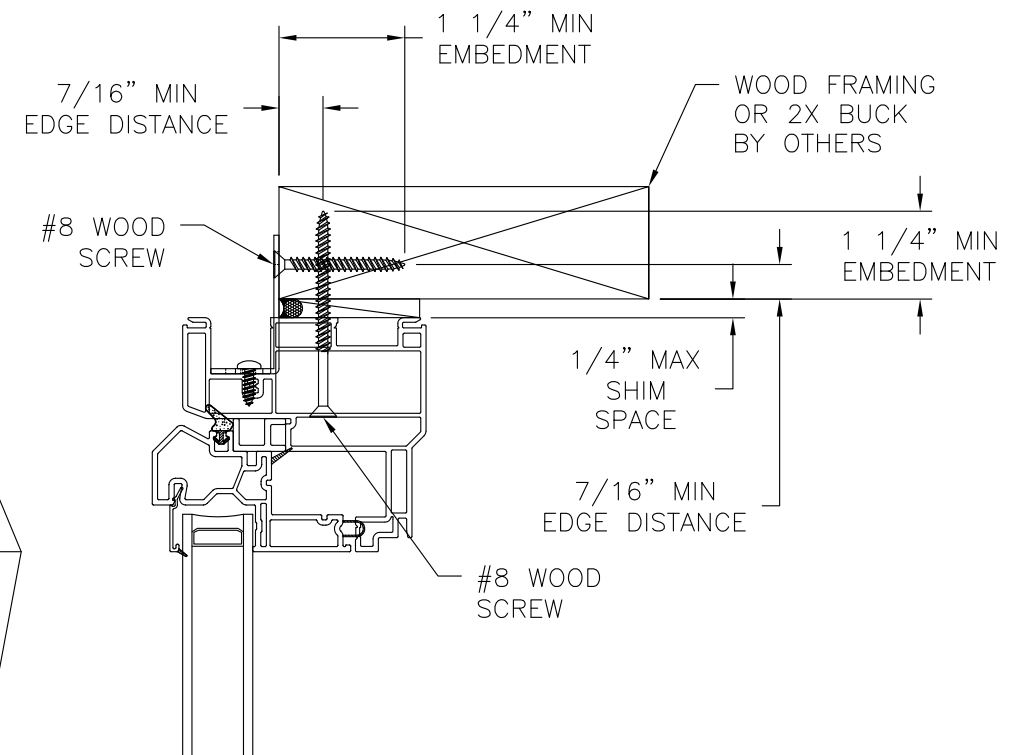
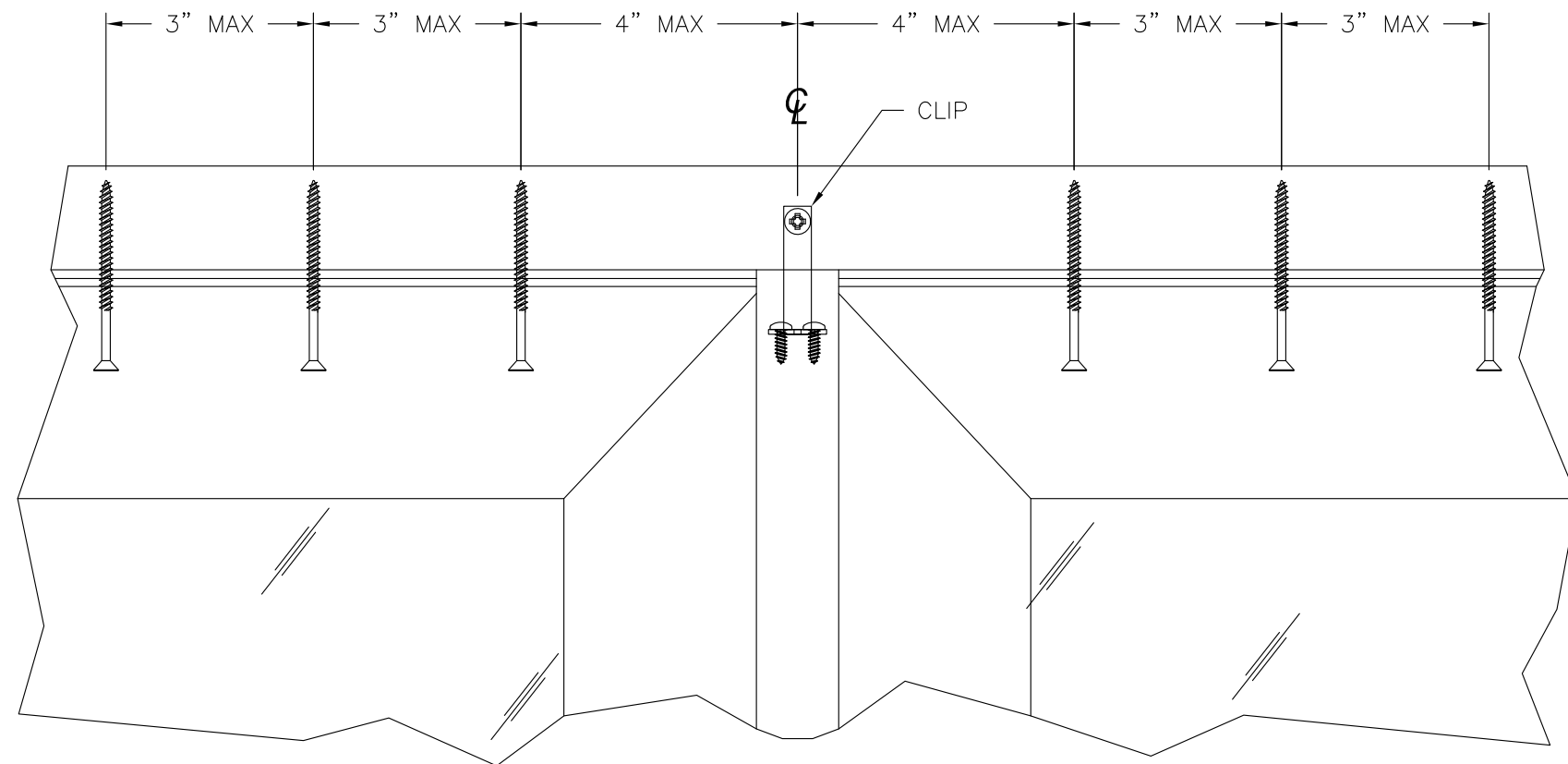
LICENSE NO. 62514

PROFESSIONAL ENGINEER

STATE OF FLORIDA



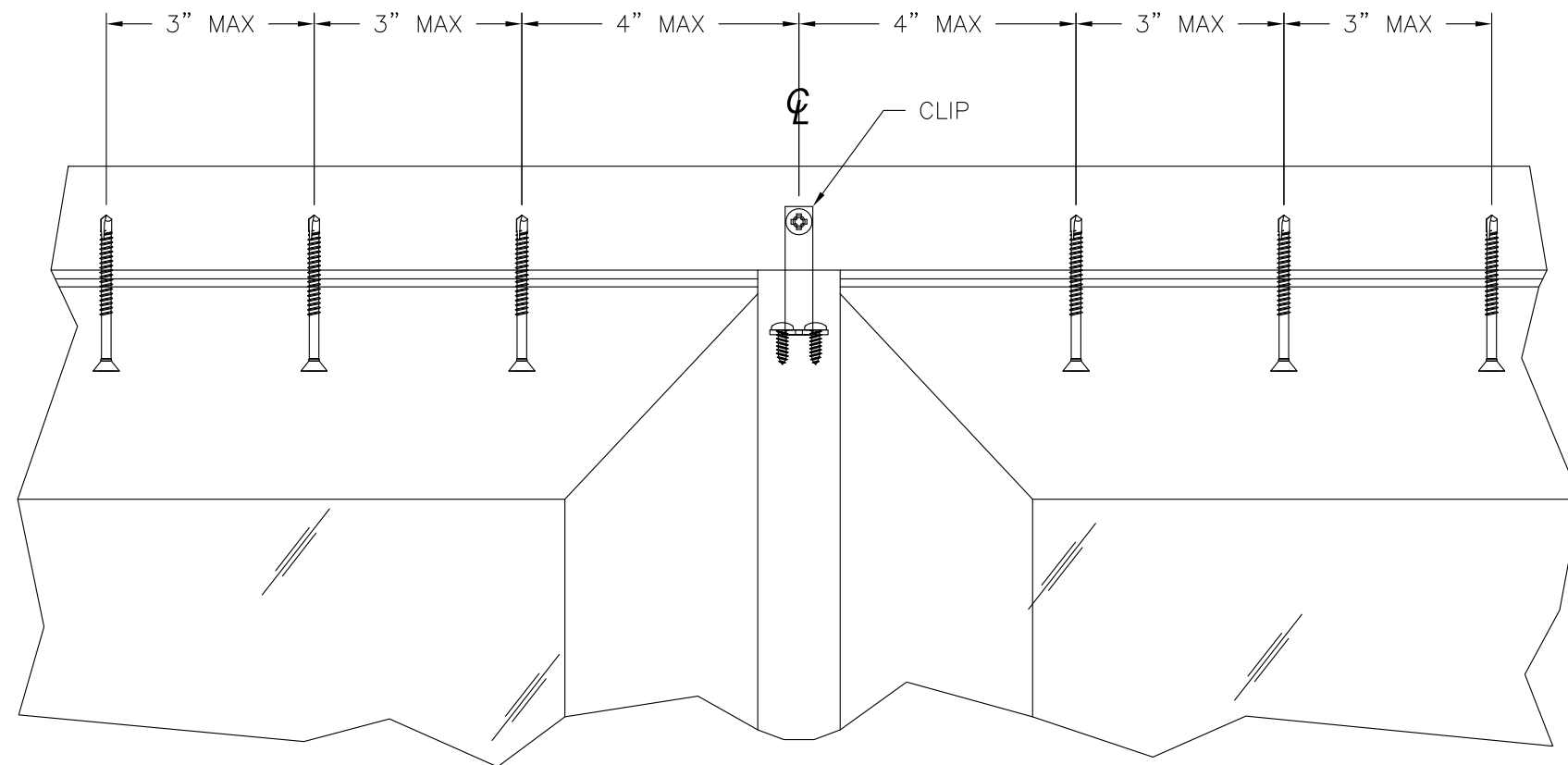
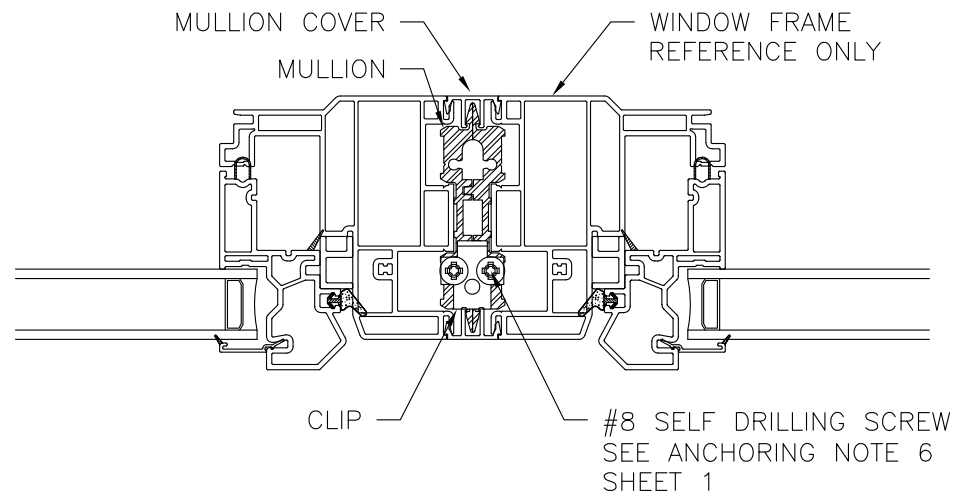
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



MULLION INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK SUBSTRATE
HEAD SHOWN, SILL SIMILAR

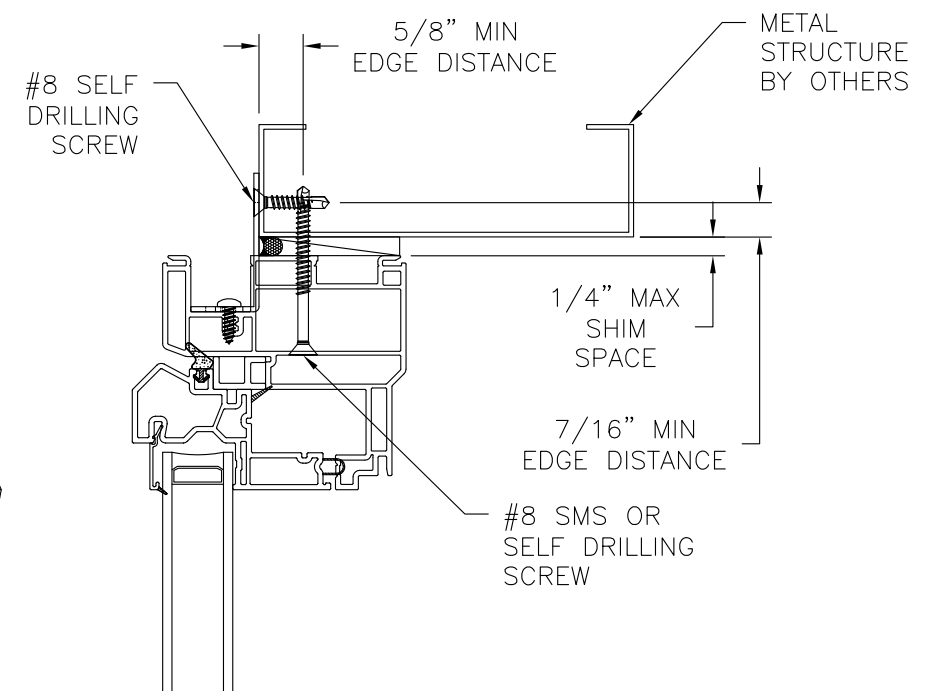
SIGNED: 03/02/2016

VIWINCO, INC MORGANTOWN BUSINESS PARK P.O. BOX 499 MORGANTOWN, PA 19543			
OCEAN VIEW ALUMINUM VERTICAL MULLION IMPACT INSTALLATION DETAILS			
DRAWN: N.G.	DWG NO. 08-02884	REV -	
SCALE NTS	DATE 03/1/16	SHEET 4 OF 7	



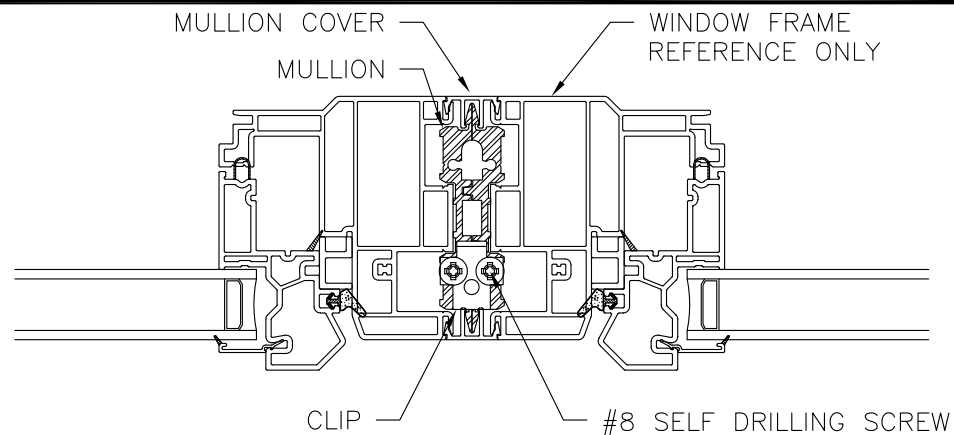
MULLION INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION
HEAD SHOWN, SILL SIMILAR

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

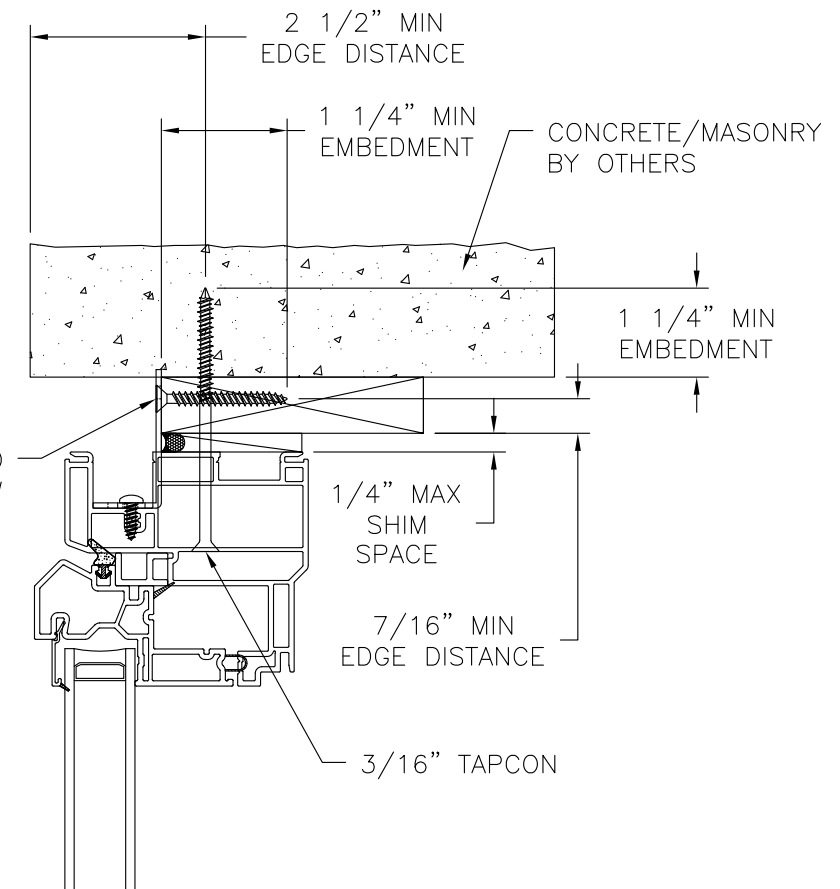
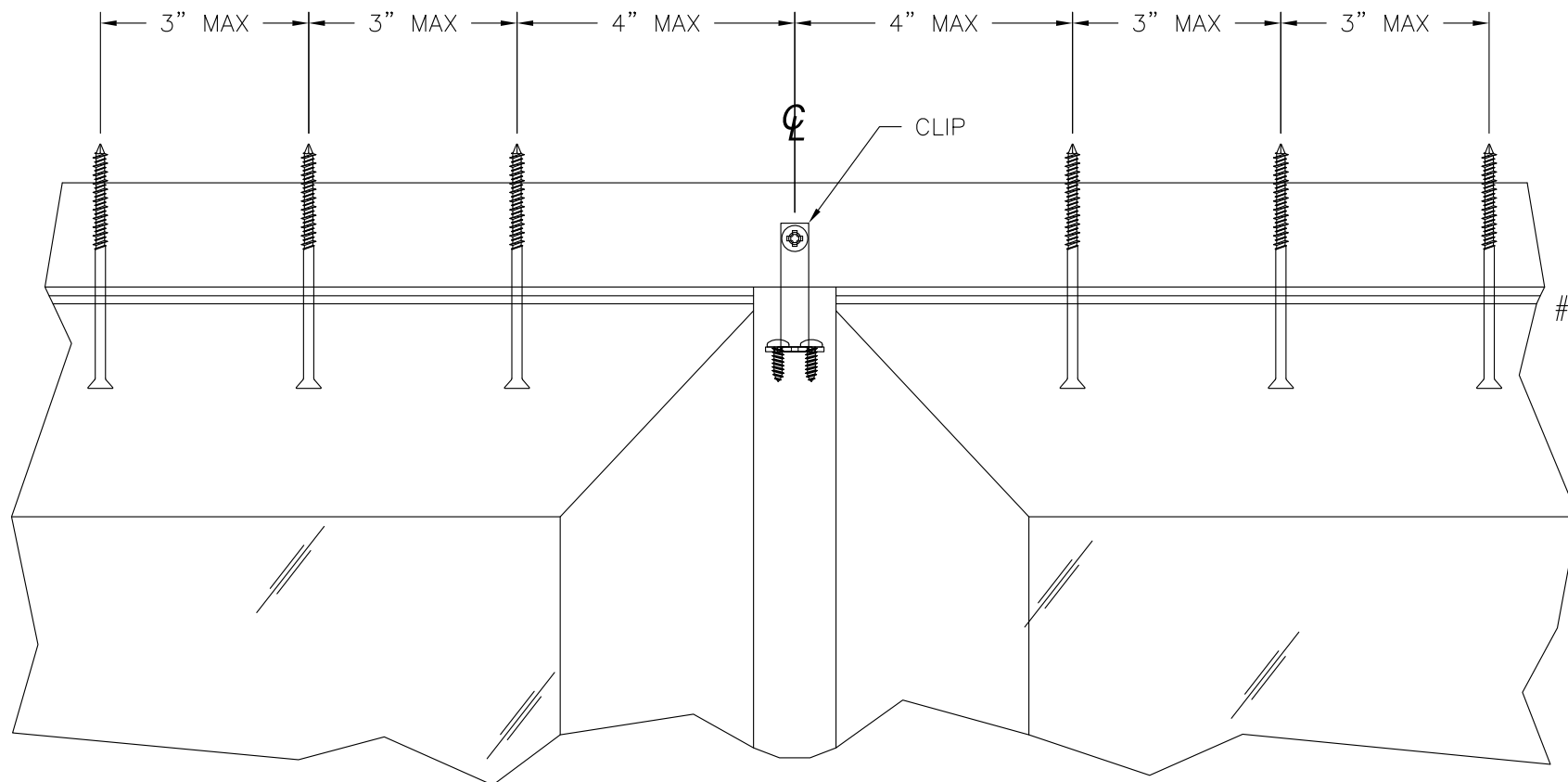


SIGNED: 03/02/2016

VIWINCO, INC MORGANTOWN BUSINESS PARK P.O. BOX 499 MORGANTOWN, PA 19543			
OCEAN VIEW ALUMINUM VERTICAL MULLION IMPACT INSTALLATION DETAILS			
DRAWN: N.G.	DWG NO. 08-02884	REV -	
SCALE NTS	DATE 03/1/16	SHEET 5 OF 7	



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



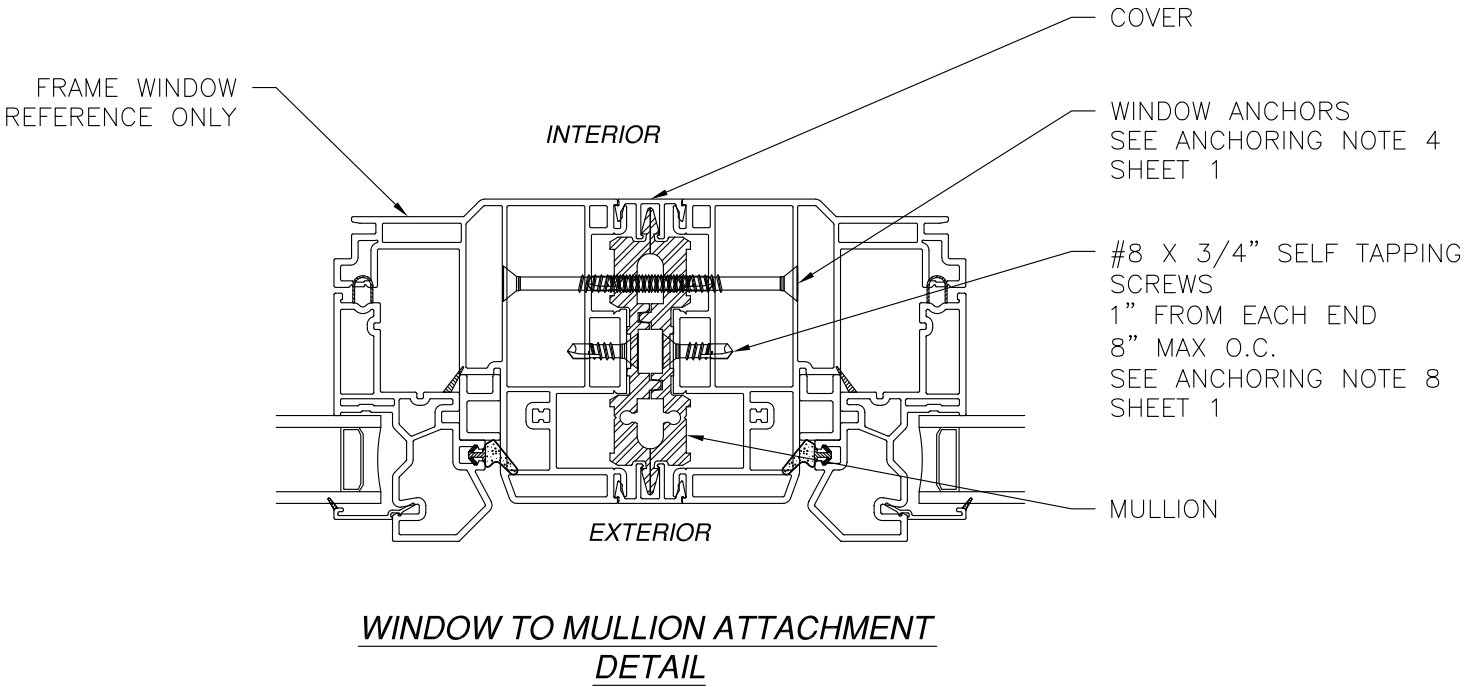
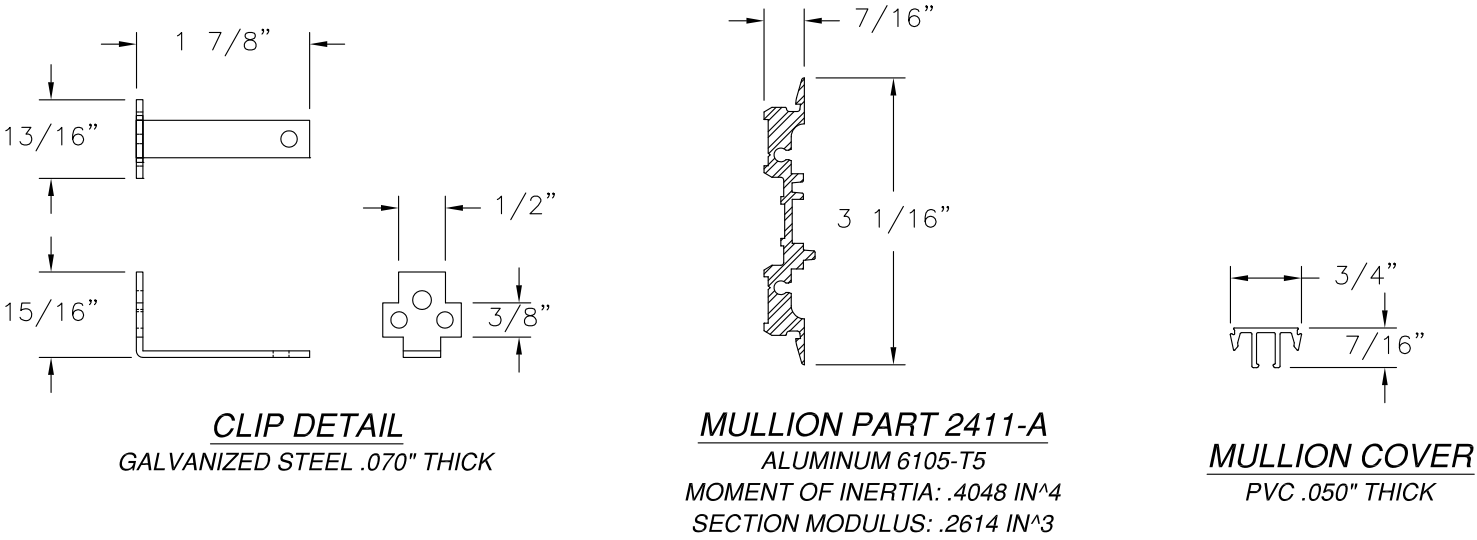
MULLION INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION
HEAD SHOWN, SILL SIMILAR

SIGNED: 03/02/2016

VIWINCO, INC MORGANTOWN BUSINESS PARK P.O. BOX 499 MORGANTOWN, PA 19543		
OCEAN VIEW ALUMINUM VERTICAL MULLION IMPACT INSTALLATION DETAILS		
DRAWN: N.G.	DWG NO. 08-02884	REV —
SCALE NTS	DATE 03/1/16	SHEET 6 OF 7



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



SIGNED: 03/02/2016

VIWINCO, INC MORGANTOWN BUSINESS PARK P.O. BOX 499 MORGANTOWN, PA 19543		
OCEAN VIEW ALUMINUM VERTICAL MULLION IMPACT COMPONENTS		
DRAWN: N.G.	DWG NO. 08-02884	REV -
SCALE NTS	DATE 03/1/16	SHEET 7 OF 7

