

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, METAL 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. 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 NT WINDOW, INC.
7. DESIGN PRESSURE OF MULLED UNIT SHALL BE CONTROLLED BY THE LESSER DESIGN PRESSURE OF THE MULLION OR THE INDIVIDUAL WINDOW OR DOOR 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.

ANCHORING NOTES:

1. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #10 WOOD SCREW WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT. LOCATE ANCHORS AS SHOWN IN INSTALLATION DETAILS.
2. FOR ANCHORING INTO CONCRETE USE 3/16" TAPCON WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/4" MINIMUM EMBEDMENT WITH 1 1/8" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN INSTALLATION DETAILS.
3. FOR ANCHORING INTO METAL FRAMING USE #10 SMS OR SELF DRILLING SCREW WITH SUFFICIENT LENGTH TO ACHIEVE A 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
4. FOR ANCHORING WINDOW OR DOOR UNITS TO BUILDING REFER TO WINDOW OR DOOR APPROVAL DOCUMENTATION.
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:
 - 6.1. WOOD – MINIMUM SPECIFIC GRAVITY OF G=0.42
 - 6.2. CONCRETE – MINIMUM COMPRESSIVE STRENGTH OF 4,200 PSI.
 - 6.3. MASONRY – STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
 - 6.4. METAL – STEEL 18GA (.048") FY=33KSI/FU=52KSI OR ALUMINUM 6063-T5 FU=30KSI .125" THICK MINIMUM.

SIGNED: 07/15/2025

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NT WINDOW, INC.
2900 WEST SEMINARY DR.
FORT WORTH, TX 76133

5902 MULLION VERTICAL AND HORIZONTAL
IMPACT
NOTES

DRAWN:
A.R.

DWG NO.
08-04162

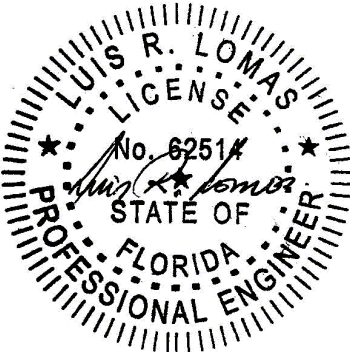
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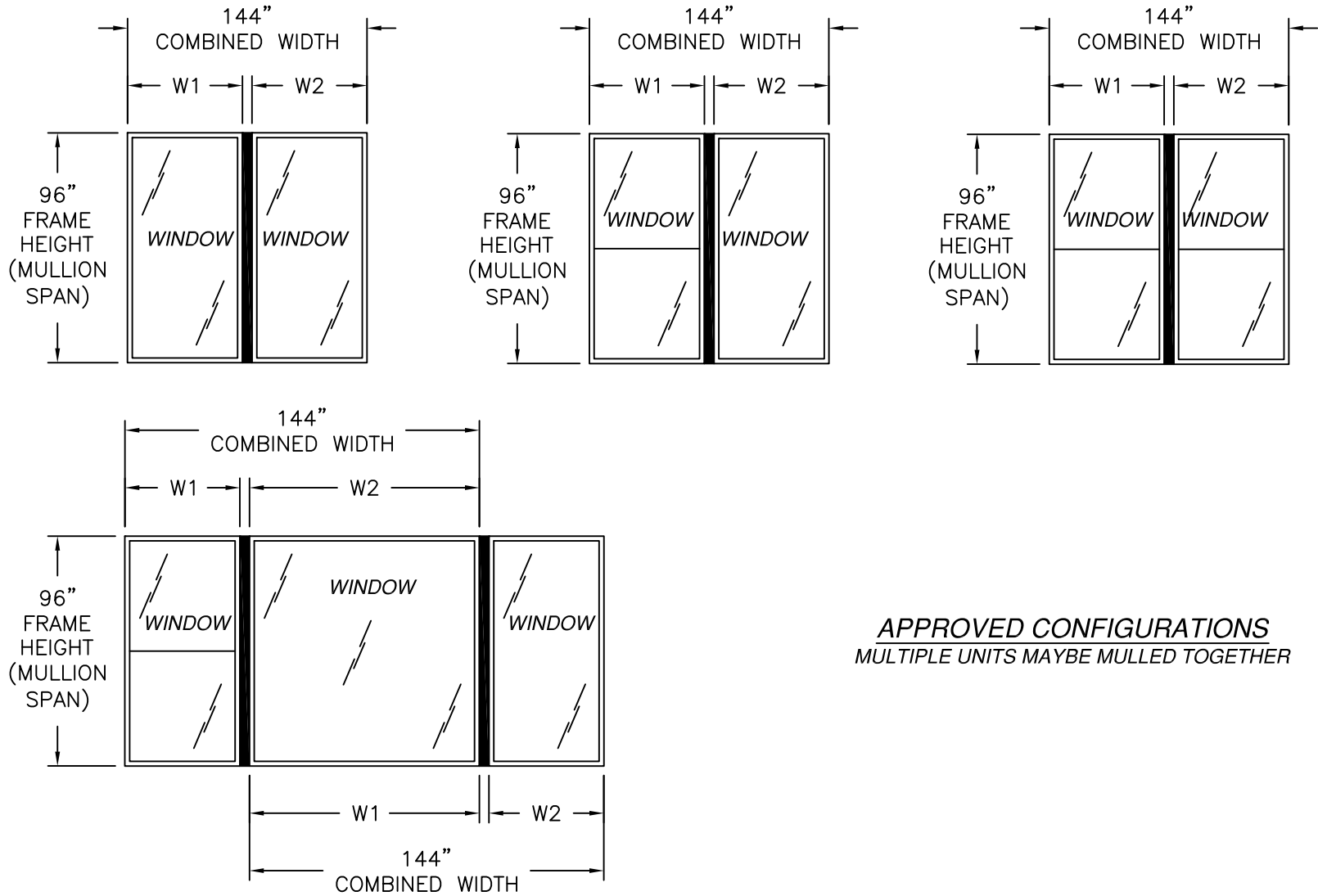
DATE 07/08/25

SHEET 1 OF 6

L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com



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



APPROVED CONFIGURATIONS
MULTIPLE UNITS MAYBE MULLED TOGETHER

REVISIONS			
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- 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 = $\frac{W1 + W2}{2}$

Chart #1
Rating (psf)

Mullion span (in)	Tributary width (in)								
	24.00	30.00	36.00	42.00	48.00	54.00	60.00	66.00	72.00
40.00	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
44.00	120.0	120.0	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	120.0	120.0
52.00	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
56.00	120.0	120.0	120.0	110.1	104.3	101.8	101.6	101.6	101.6
60.00	120.0	109.4	95.5	86.6	81.1	78.1	77.1	77.1	77.1
64.00	107.6	89.0	77.2	69.6	64.5	61.4	59.9	59.6	59.6
68.00	89.1	73.4	63.4	56.8	52.3	49.3	47.6	46.8	46.7
72.00	74.7	61.3	52.7	47.0	43.0	40.3	38.5	37.5	37.2
76.00	63.2	51.7	44.4	39.3	35.8	33.4	31.7	30.6	30.1
80.00	54.0	44.1	37.7	33.3	30.2	28.0	26.4	25.4	24.7
84.00	46.5	37.9	32.3	28.5	25.7	23.7	22.3	21.3	20.6
88.00	40.3	32.8	27.9	24.5	22.1	20.3	19.0	18.1	17.4
92.00	35.2	28.6	24.3	21.3	19.1	17.5	16.4	15.5	-
96.00	30.9	25.1	21.3	18.6	16.7	15.3	-	-	-

Large and small missile impact up to wind zone 3

NT WINDOW, INC.
2900 WEST SEMINARY DR.
FORT WORTH, TX 76133

5902 MULLION VERTICAL AND HORIZONTAL
IMPACT
VERTICAL MULLION CHARTS

DRAWN:
A.R.

DWG NO.
08-04162

REV
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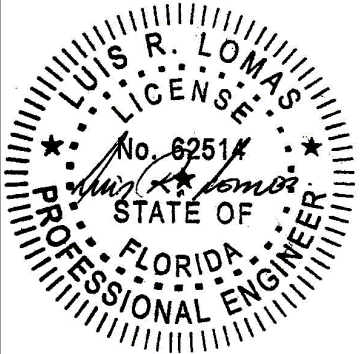
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NTS

DATE
07/08/25

SHEET
2 OF 6

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SIGNED: 07/15/2025



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REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

Rating chart #2 (psf)
Units with a transom height of: 18"
Design pressures are positive and negative

Height (in)		Unit width (in)							
Window	Transom	36.0	42.0	48.0	54.0	60.0	66.0	72.0	78.0
24.0	18.0	150.0	150.0	150.0	150.0	148.6	110.6	84.6	66.2
30.0	18.0	150.0	150.0	150.0	150.0	133.3	98.8	75.3	58.8
36.0	18.0	150.0	150.0	150.0	150.0	122.5	90.2	68.5	53.3
42.0	18.0	150.0	150.0	150.0	150.0	114.9	84.0	63.4	49.1
48.0	18.0	150.0	150.0	150.0	150.0	110.0	79.7	59.7	46.0
54.0	18.0	150.0	150.0	150.0	150.0	107.1	76.7	57.0	43.6
60.0	18.0	150.0	150.0	150.0	150.0	106.2	75.1	55.2	41.9
66.0	18.0	150.0	150.0	150.0	150.0	106.2	74.5	54.2	40.8
72.0	18.0	150.0	150.0	150.0	150.0	106.2	74.5	53.9	40.1
78.0	18.0	150.0	150.0	150.0	150.0	106.2	74.5	53.9	39.9
84.0	18.0	150.0	150.0	150.0	150.0	106.2	74.5	53.9	39.9

Large and Small Missile impact up to wind zone 3

Rating chart #3 (psf)
Units with a transom height of: 24"
Design pressures are positive and negative

Height (in)		Unit width (in)							
Window	Transom	18.0	24.0	30.0	36.0	42.0	48.0	54.0	60.0
24.0	24.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	131.7
30.0	24.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	119.5
36.0	24.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	110.7
42.0	24.0	150.0	150.0	150.0	150.0	150.0	150.0	148.8	104.5
48.0	24.0	150.0	150.0	150.0	150.0	150.0	150.0	144.6	100.4
54.0	24.0	150.0	150.0	150.0	150.0	150.0	150.0	143.3	98.0
60.0	24.0	150.0	150.0	150.0	150.0	150.0	150.0	143.3	97.3
66.0	24.0	150.0	150.0	150.0	150.0	150.0	150.0	143.3	97.3
72.0	24.0	150.0	150.0	150.0	150.0	150.0	150.0	143.3	97.3
78.0	24.0	150.0	150.0	150.0	150.0	150.0	150.0	143.3	97.3
84.0	24.0	150.0	150.0	150.0	150.0	150.0	150.0	143.3	97.3

Large and Small Missile impact up to wind zone 3

Rating chart #4 (psf)
Units with a transom height of: 30"
Design pressures are positive and negative

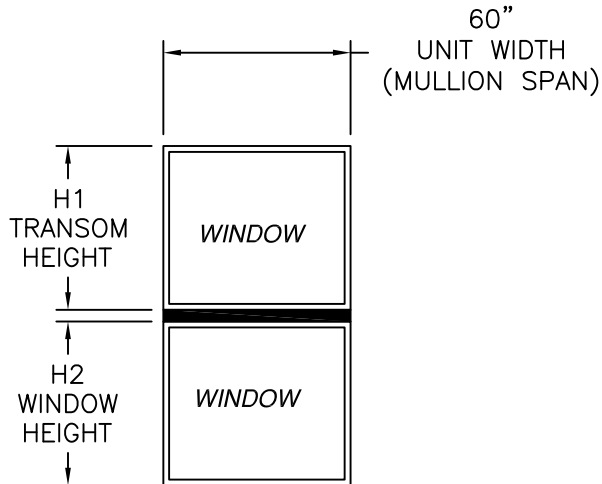
Height (in)		Unit width (in)							
Window	Transom	18.0	24.0	30.0	36.0	42.0	48.0	54.0	60.0
24.0	30.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	119.5
30.0	30.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	109.4
36.0	30.0	150.0	150.0	150.0	150.0	150.0	150.0	144.3	102.0
42.0	30.0	150.0	150.0	150.0	150.0	150.0	150.0	138.0	96.7
48.0	30.0	150.0	150.0	150.0	150.0	150.0	150.0	134.4	93.1
54.0	30.0	150.0	150.0	150.0	150.0	150.0	150.0	133.2	91.1
60.0	30.0	150.0	150.0	150.0	150.0	150.0	150.0	133.2	90.4
66.0	30.0	150.0	150.0	150.0	150.0	150.0	150.0	133.2	90.4
72.0	30.0	150.0	150.0	150.0	150.0	150.0	150.0	133.2	90.4
78.0	30.0	150.0	150.0	150.0	150.0	150.0	150.0	133.2	90.4
84.0	30.0	150.0	150.0	150.0	150.0	150.0	150.0	133.2	90.4

Large and Small Missile impact up to wind zone 3

Rating chart #5 (psf)
Units with a transom height of: 36"
Design pressures are positive and negative

Height (in)		Unit width (in)							
Window	Transom	18.0	24.0	30.0	36.0	42.0	48.0	54.0	60.0
24.0	36.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	110.7
30.0	36.0	150.0	150.0	150.0	150.0	150.0	150.0	144.3	102.0
36.0	36.0	150.0	150.0	150.0	150.0	150.0	150.0	135.9	95.5
42.0	36.0	150.0	150.0	150.0	150.0	150.0	150.0	130.3	90.9
48.0	36.0	150.0	150.0	150.0	150.0	150.0	150.0	127.1	87.7
54.0	36.0	150.0	150.0	150.0	150.0	150.0	150.0	126.0	85.9
60.0	36.0	150.0	150.0	150.0	150.0	150.0	150.0	126.0	85.3
66.0	36.0	150.0	150.0	150.0	150.0	150.0	150.0	126.0	85.3
72.0	36.0	150.0	150.0	150.0	150.0	150.0	150.0	126.0	85.3
78.0	36.0	150.0	150.0	150.0	150.0	150.0	150.0	126.0	85.3
84.0	36.0	150.0	150.0	150.0	150.0	150.0	150.0	126.0	85.3

Large and Small Missile impact up to wind zone 3

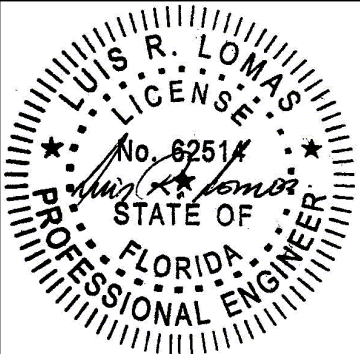


DESIGN PRESSURE TABLE INSTRUCTIONS:

1. DEFINE REQUIRED DESIGN LOAD PER FLORIDA BUILDING CODE CHAPTER 16.
2. DETERMINE WINDOW HEIGHT AND MULLION SPAN BASED ON PRODUCT TO BE INSTALLED.
3. LOCATE MULLION SPAN (UNIT WIDTH) AND WINDOW HEIGHT. AT THE INTERSECTION OF COLUMN AND ROW CONTAINING THE MULLION SPAN AND WINDOW HEIGHT 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.

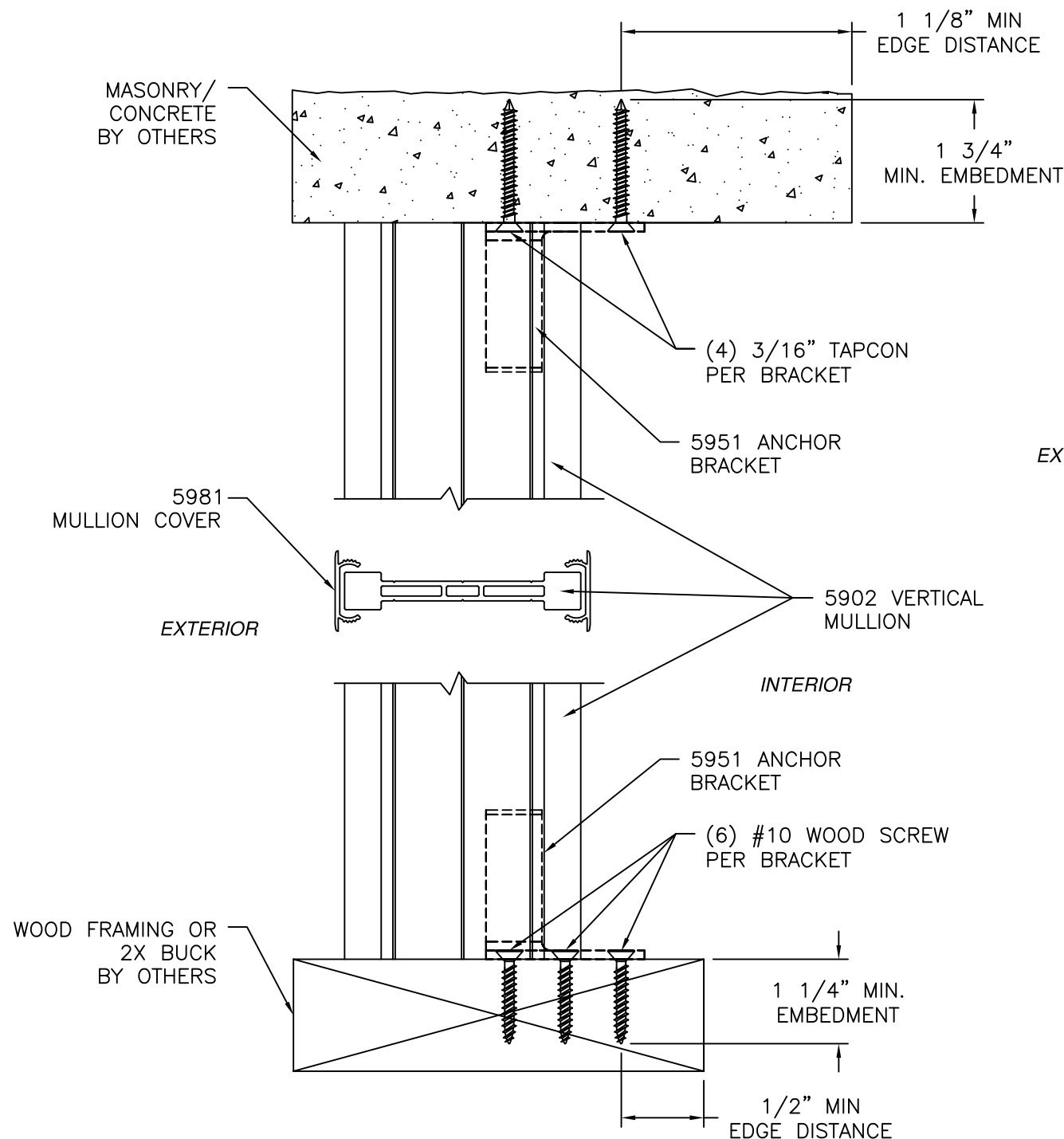
NT WINDOW, INC. 2900 WEST SEMINARY DR. FORT WORTH, TX 76133		
5902 MULLION VERTICAL AND HORIZONTAL IMPACT HORIZONTAL MULLION, SINGLE WITH TRANSOM		
DRAWN: A.R.	DWG NO. 08-04162	REV -
SCALE NTS	DATE 07/08/25	SHEET 3 OF 6
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 07/15/2025

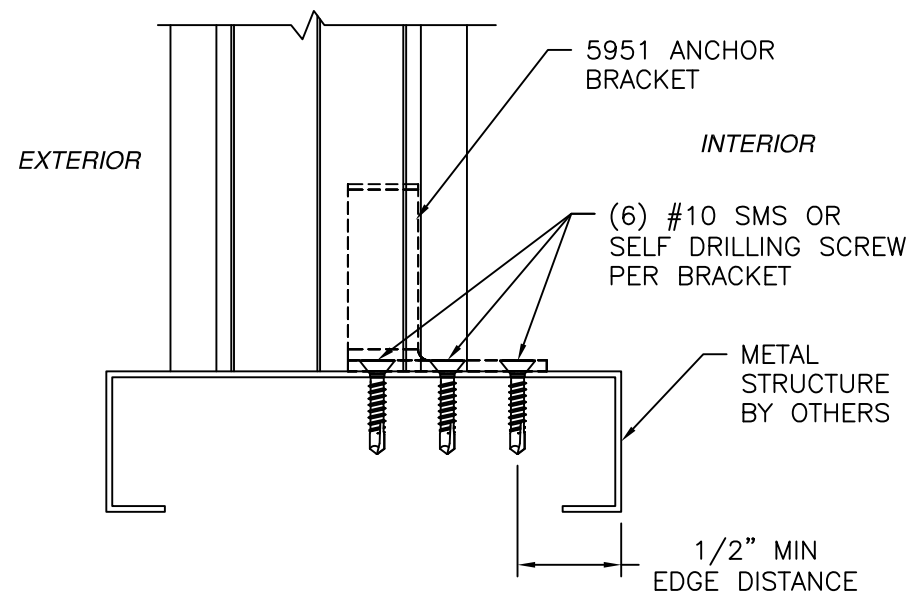


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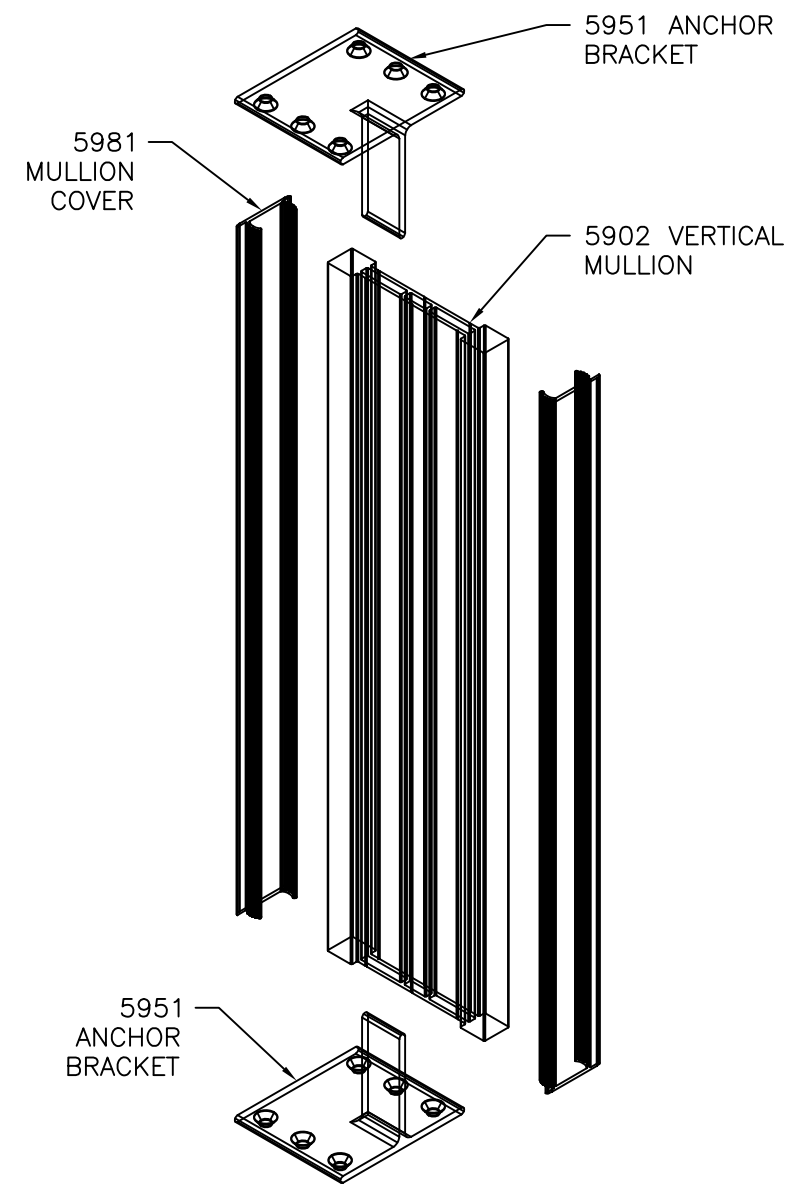
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VERTICAL CROSS SECTION
MASONRY/CONCRETE AND WOOD FRAMING
INSTALLATION



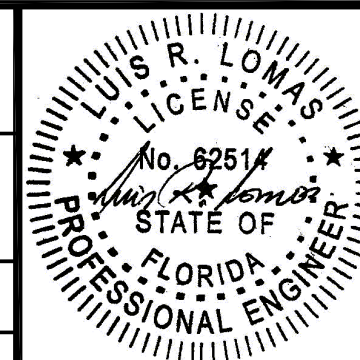
VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



VERTICAL MULLION INSTALLATION

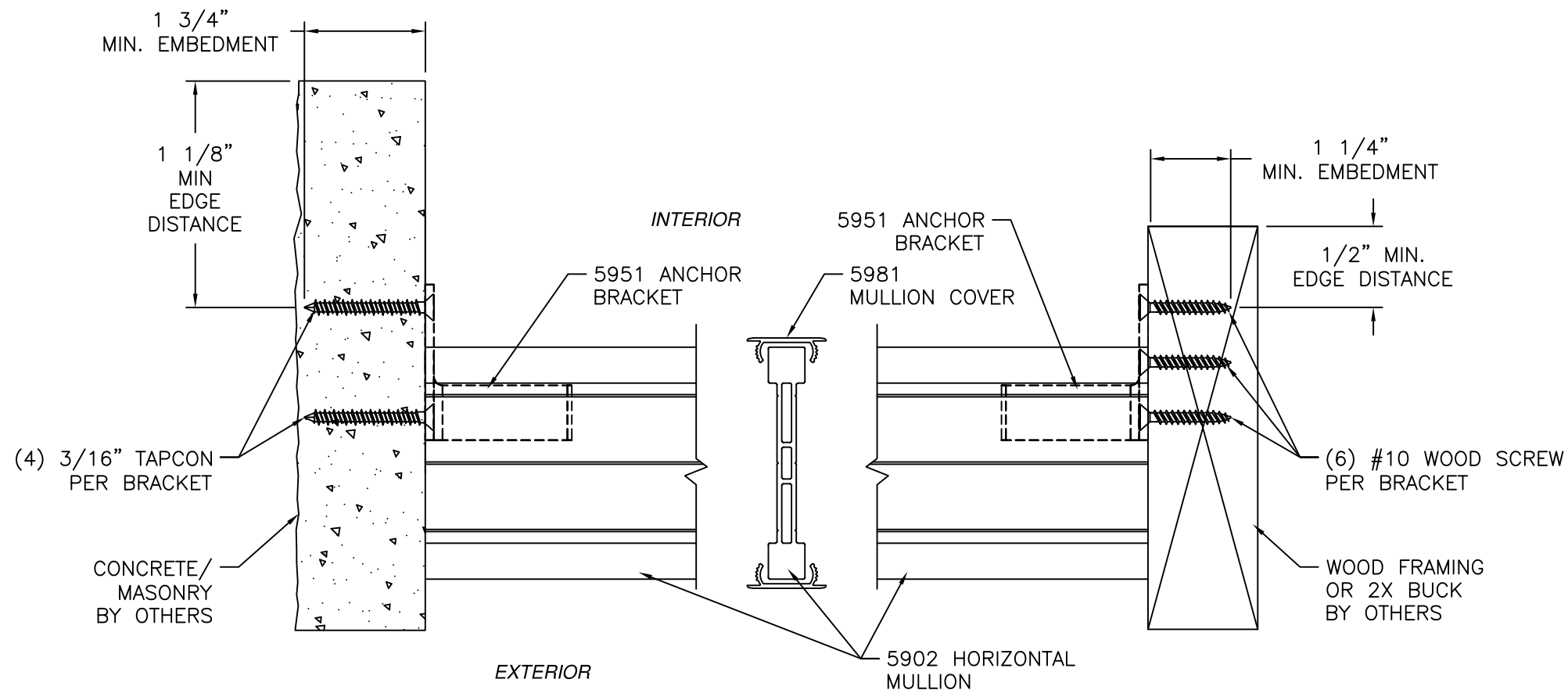
SIGNED: 07/15/2025

NT WINDOW, INC. 2900 WEST SEMINARY DR. FORT WORTH, TX 76133		
5902 MULLION VERTICAL AND HORIZONTAL IMPACT VERTICAL MULLION INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-04162	REV -
SCALE NTS	DATE 07/08/25	SHEET 4 OF 6
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

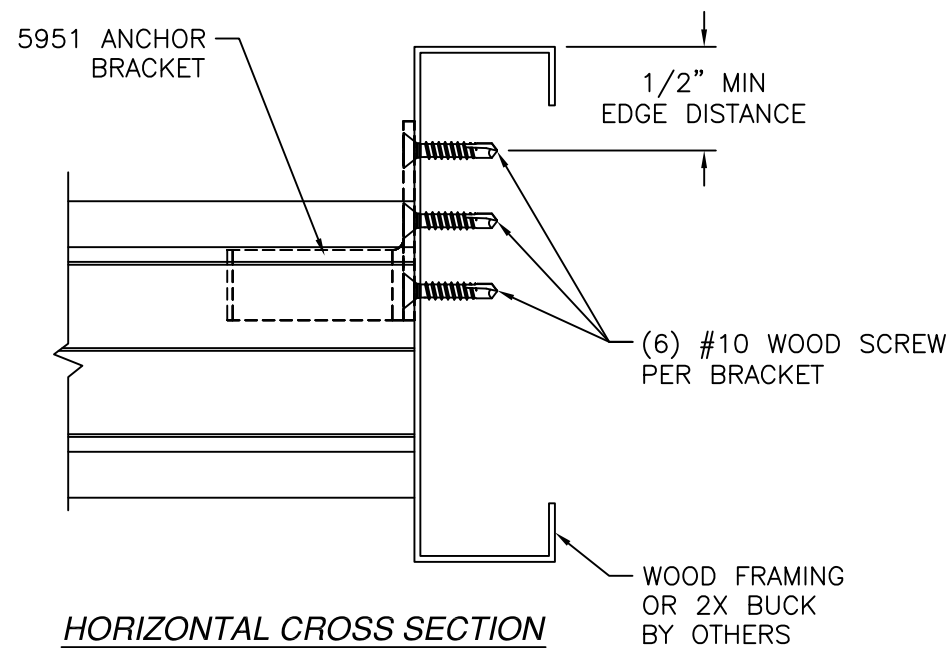


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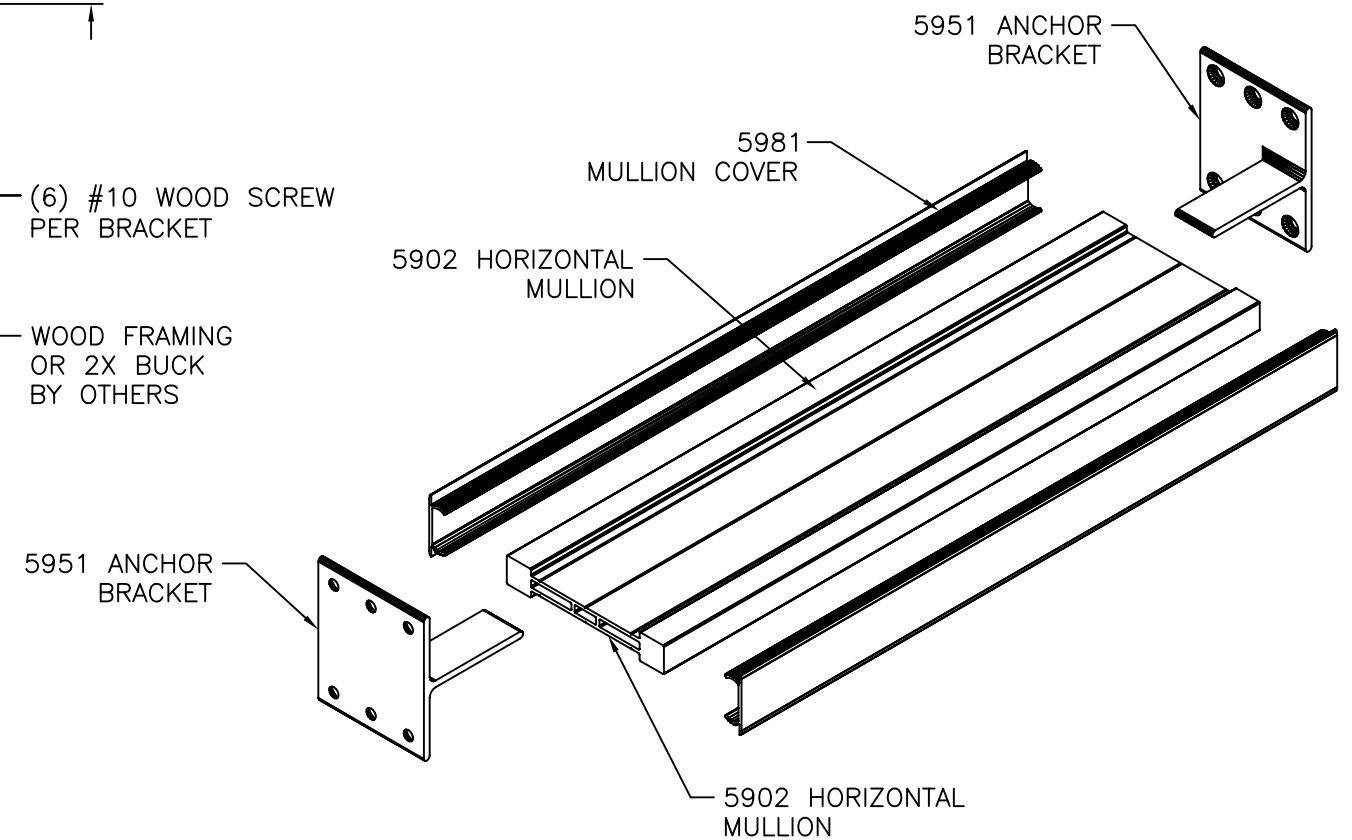
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HORIZONTAL CROSS SECTION
WOOD & CONCRETE INSTALLATION



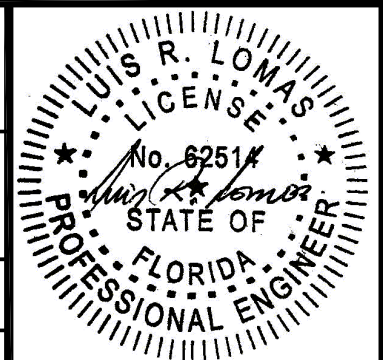
HORIZONTAL CROSS SECTION
METAL STRUCTURE INSTALLATION



HORIZONTAL MULLION INSTALLATION

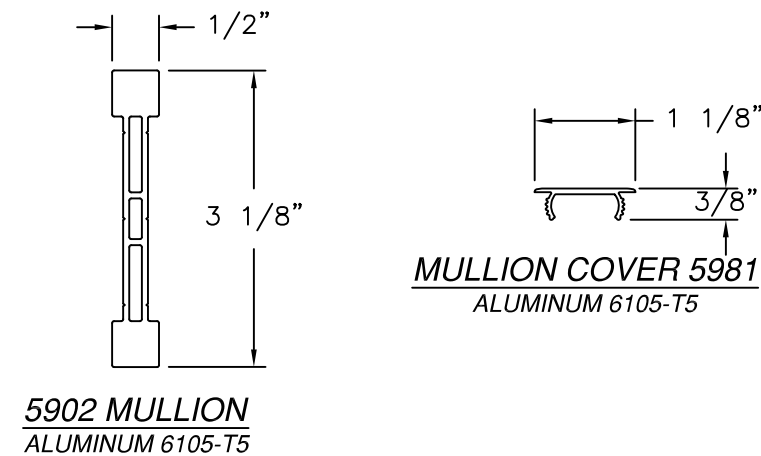
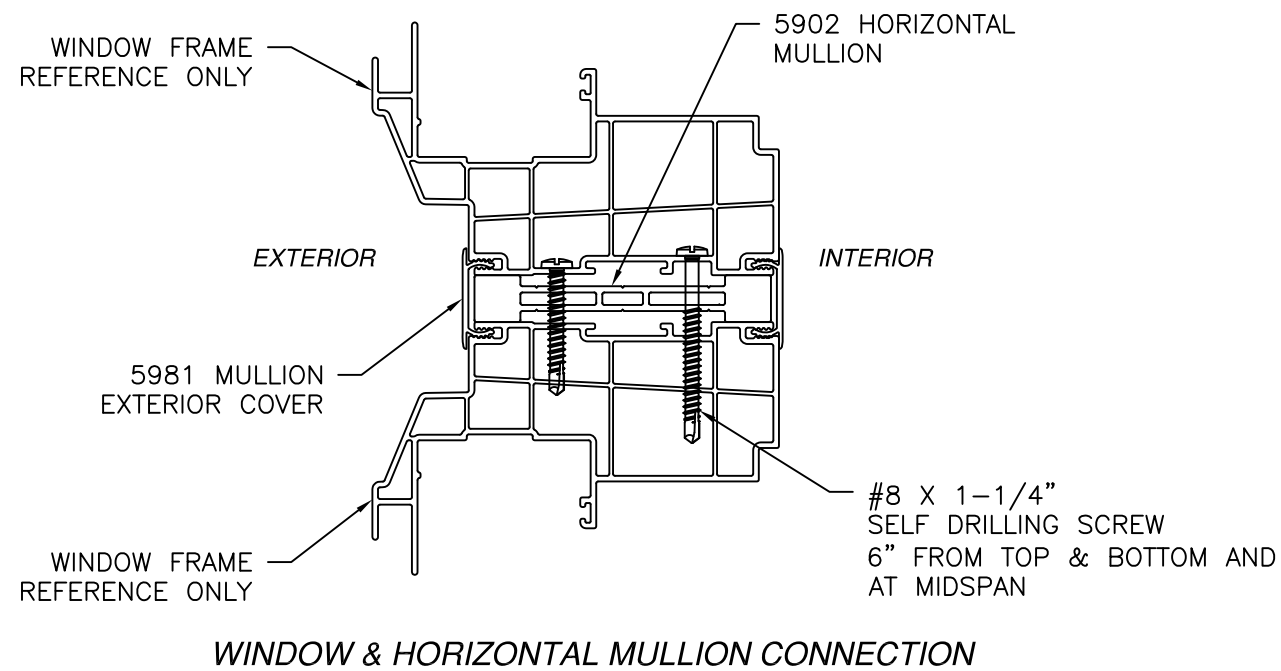
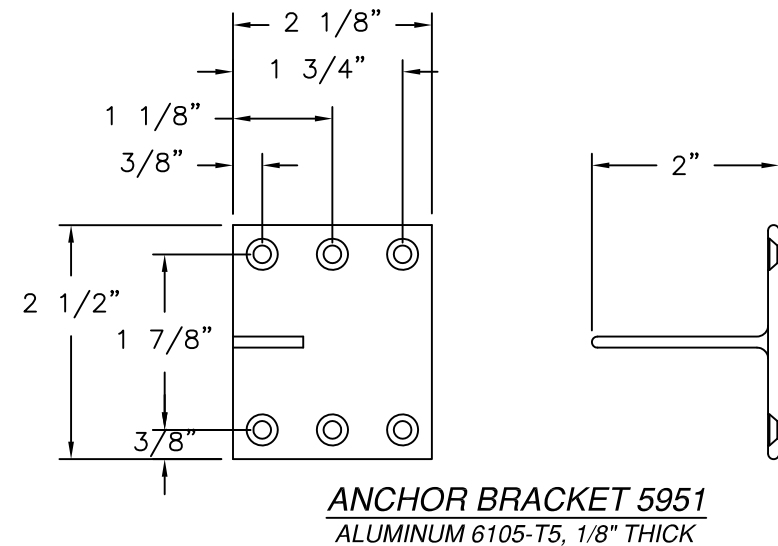
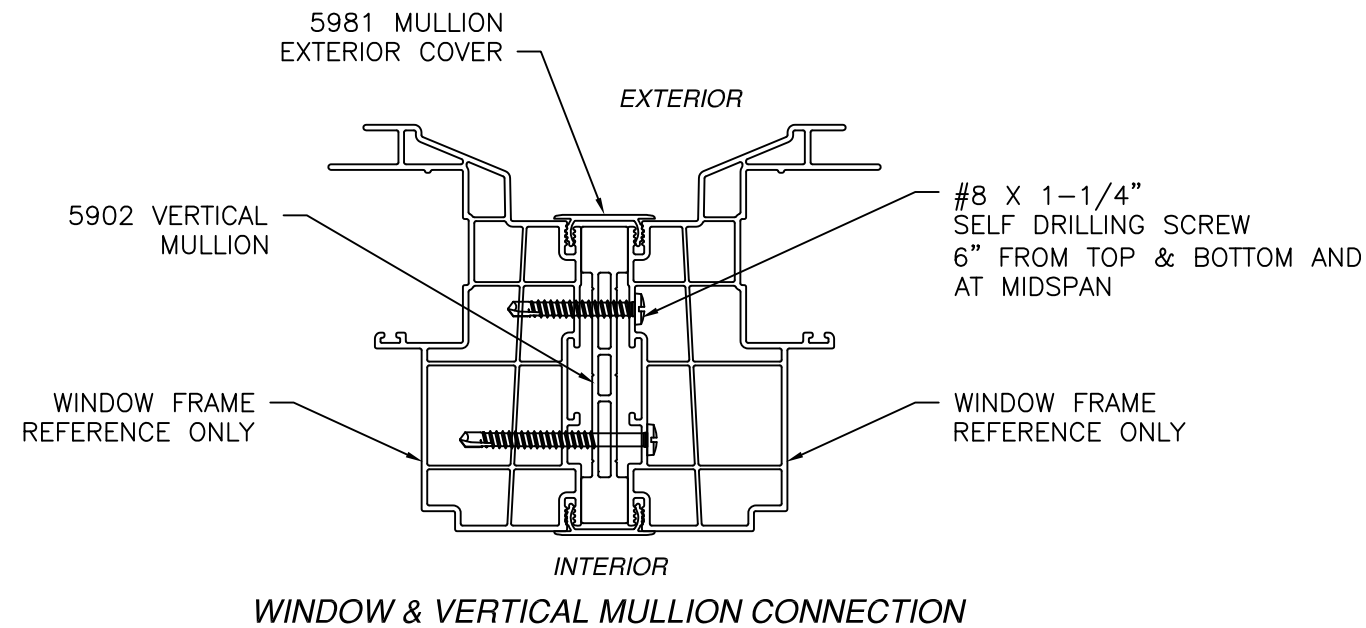
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NT WINDOW, INC. 2900 WEST SEMINARY DR. FORT WORTH, TX 76133		
5902 MULLION VERTICAL AND HORIZONTAL IMPACT HORIZONTAL MULLION INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-04162	REV -
SCALE NTS	DATE 07/08/25	SHEET 5 OF 6
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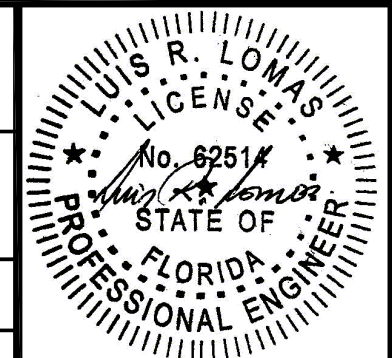
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NT WINDOW, INC. 2900 WEST SEMINARY DR. FORT WORTH, TX 76133		
5902 MULLION VERTICAL AND HORIZONTAL IMPACT COMPONENTS		
DRAWN: A.R.	DWG NO. 08-04162	REV -
SCALE NTS	DATE 07/08/25	SHEET 6 OF 6
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