

| REVISIONS |                   |            |          |
|-----------|-------------------|------------|----------|
| REV       | DESCRIPTION       | DATE       | APPROVED |
| A         | ADDED MZ1 MULLION | 08/28/2024 | R.L.     |

NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
- 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.
- WHERE 1X BUCK IS NOT USED DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
- BUCKS SHALL EXTEND BEYOND UNIT FRAME INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
- 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.
- APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS UP TO WIND ZONE 3.
- DESIGN PRESSURE AND INSTALLATION DETAILS SHOWN IN THIS DOCUMENT APPLY ONLY TO MULLION. WINDOWS MUST BE APPROVED UNDER SEPARATE APPROVAL.
- SINGLE WINDOWS TO BE MULLED ARE NOT LIMITED TO THOSE SHOWN IN THIS DRAWING. WINDOWS MUST BE MANUFACTURED BY WINDOW MART.
- DESIGN PRESSURE OF MULLED UNIT SHALL BE CONTROLLED BY THE LESSER DESIGN PRESSURE OF THE MULLION OR THE INDIVIDUAL WINDOW OR DOOR UNIT.
- UNITS MAY BE MULLED TOGETHER INDEFINITELY AS LONG AS SINGLE UNIT WIDTH AND HEIGHT ARE NOT EXCEEDED AND MULLION IS ANCHORED AS SHOWN HEREIN.

DESIGN PRESSURE TABLE INSTRUCTIONS:

- DEFINE REQUIRED DESIGN LOAD PER FLORIDA BUILDING CODE CHAPTER 16.
- DETERMINE MULLION SPAN AND TRIBUTARY WIDTH OF PRODUCT TO BE INSTALLED BASED ON FORMULA FOR TRIBUTARY WIDTH BELOW.
- TO DETERMINE MULLION RATING LOCATE COLUMN FOR MULLION SPAN AND TRIBUTARY WIDTH THEN LOCATE CORRESPONDING ROW FOR WINDOW AND TRANSOM HEIGHTS. FIND THE INTERSECTION OF THIS COLUMN AND ROW. MULLION RATING IS LOCATED AT THIS INTERSECTION.
- MULLION RATING MUST BE EQUAL OR GREATER THAN REQUIRED DESIGN PRESSURE OBTAINED IN STEP 1.
- IF TRANSOM TO BE INSTALLED IS NOT LISTED IN THESE CHARTS GO TO NEXT HIGHER TRANSOM CHART. FOR EXAMPLE IF TRANSOM TO BE INSTALLED IS 20” HIGH THEN USE CHART FOR 24” TRANSOM.
- WINDOW/DOOR AND TRANSOMS REQUIRE SEPARATE APPROVAL AND MUST BE ANCHORED ON ALL FOUR SIDES.

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

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| 15                | COMPONENTS           |

ANCHORING NOTES:

- FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #14 WOOD SCREW WITH SUFFICIENT LENGTH TO ACHIEVE A 1 7/16” MINIMUM EMBEDMENT. LOCATE ANCHORS AS SHOWN IN INSTALLATION DETAILS.
- FOR ANCHORING INTO CONCRETE USE 1/4” TAPCON WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/4” MINIMUM EMBEDMENT WITH 2” MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN INSTALLATION DETAILS.
- FOR ANCHORING INTO METAL STRUCTURE USE #14 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.
- FOR ATTACHING MULLIONS TO WINDOW FRAME USE #10 SMS OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS PAST THE MULLION WALL. LOCATE SCREWS IN ACCORDANCE WITH WINDOW ANCHORING SCHEDULE AS SHOWN IN WINDOW SEPARATE APPROVAL.
- FOR WINDOW UNITS ANCHORING SCHEDULE REFER TO APPROVED INSTALLATION INSTRUCTIONS.
- ALL FASTENERS TO BE CORROSION RESISTANT.
- 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:
  - WOOD – MINIMUM SPECIFIC GRAVITY OF G=0.42
  - CONCRETE – MINIMUM COMPRESSIVE STRENGTH OF 3,200 PSI.
  - MASONRY – STRENGTH CONFORMANCE TO ASTM C–90, GRADE N, TYPE 1 (OR GREATER).
  - METAL STRUCTURE: STEEL 18GA, 33KSI OR ALUMINUM 6063–T5 1/8” THICK MINIMUM

REILLY WINDOWS & DOORS  
901 BURMAN BLVD.  
CALVERTON, NY 11933

X-MULLION  
IMPACT  
NOTES

DRAWN:  
A.R.

DWG NO.  
08-03957

REV  
A

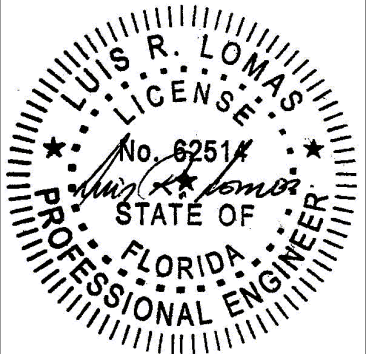
SCALE NTS

DATE 07/28/2023

SHEET 1 OF 15

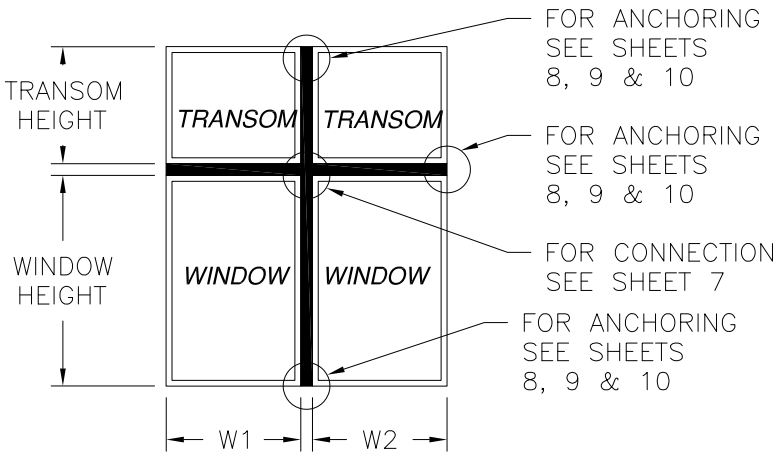
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434-688-0609 rllomas@lrlomaspe.com

SIGNED: 08/28/2024



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

| REVISIONS |                   |            |          |
|-----------|-------------------|------------|----------|
| REV       | DESCRIPTION       | DATE       | APPROVED |
| A         | ADDED MZ1 MULLION | 08/28/2024 | R.L.     |



SEE CHARTS 1-4 FOR DESIGN PRESSURE RATINGS

**Chart #1**  
**M1 Mullion with 18" transom**

| Mullion span (in) | Window Height (in) | Transom Height (in) | Tributary width (in) |       |       |       |       |       |       |
|-------------------|--------------------|---------------------|----------------------|-------|-------|-------|-------|-------|-------|
|                   |                    |                     | 36.00                | 42.00 | 48.00 | 54.00 | 60.00 | 66.00 | 72.00 |
| 54.00             | 36.00              | 18.00               | 120.0                | 120.0 | 120.0 | 120.0 | 112.3 | 103.7 | 96.4  |
| 60.00             | 42.00              | 18.00               | 120.0                | 117.2 | 106.5 | 97.6  | 90.1  | 83.6  | 78.0  |
| 66.00             | 48.00              | 18.00               | 105.1                | 93.7  | 85.4  | 78.8  | 73.1  | 68.3  | 64.0  |
| 72.00             | 54.00              | 18.00               | 85.9                 | 76.4  | 69.5  | 64.2  | 60.0  | 56.3  | 53.0  |
| 78.00             | 60.00              | 18.00               | 71.4                 | 63.4  | 57.5  | 53.0  | 49.6  | 46.8  | 44.2  |
| 84.00             | 66.00              | 18.00               | 60.2                 | 53.3  | 48.3  | 44.4  | 41.5  | 39.1  | 37.2  |
| 90.00             | 72.00              | 18.00               | 51.4                 | 45.5  | 41.1  | 37.7  | 35.1  | 33.1  | 31.5  |

**Chart #3**  
**M1 Mullion with 30" transom**

| Mullion span (in) | Window Height (in) | Transom Height (in) | Tributary width (in) |       |       |       |       |       |       |
|-------------------|--------------------|---------------------|----------------------|-------|-------|-------|-------|-------|-------|
|                   |                    |                     | 36.00                | 42.00 | 48.00 | 54.00 | 60.00 | 66.00 | 72.00 |
| 66.00             | 36.00              | 30.00               | 109.5                | 96.6  | 86.4  | 78.1  | 71.3  | 65.6  | 60.7  |
| 72.00             | 42.00              | 30.00               | 90.1                 | 79.5  | 71.4  | 64.8  | 59.3  | 54.7  | 50.7  |
| 78.00             | 48.00              | 30.00               | 75.2                 | 66.3  | 59.6  | 54.3  | 49.9  | 46.2  | 42.9  |
| 84.00             | 54.00              | 30.00               | 63.6                 | 56.0  | 50.3  | 45.9  | 42.4  | 39.3  | 36.7  |
| 90.00             | 60.00              | 30.00               | 54.4                 | 47.8  | 42.9  | 39.2  | 36.2  | 33.7  | 31.5  |
| 96.00             | 66.00              | 30.00               | 47.0                 | 41.3  | 37.0  | 33.7  | 31.1  | 29.0  | 27.3  |
| 102.00            | 72.00              | 30.00               | 41.0                 | 36.0  | 32.2  | 29.3  | 27.1  | 25.2  | 23.7  |

**Chart #2**  
**M1 Mullion with 24" transom**

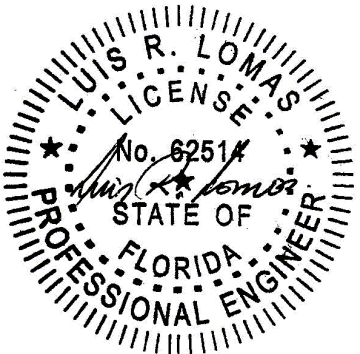
| Mullion span (in) | Window Height (in) | Transom Height (in) | Tributary width (in) |       |       |       |       |       |       |
|-------------------|--------------------|---------------------|----------------------|-------|-------|-------|-------|-------|-------|
|                   |                    |                     | 36.00                | 42.00 | 48.00 | 54.00 | 60.00 | 66.00 | 72.00 |
| 60.00             | 36.00              | 24.00               | 120.0                | 118.5 | 106.1 | 96.2  | 87.9  | 80.9  | 75.0  |
| 66.00             | 42.00              | 24.00               | 107.8                | 95.6  | 86.1  | 78.4  | 72.0  | 66.5  | 61.8  |
| 72.00             | 48.00              | 24.00               | 88.3                 | 78.2  | 70.7  | 64.7  | 59.7  | 55.3  | 51.6  |
| 78.00             | 54.00              | 24.00               | 73.6                 | 65.0  | 58.7  | 53.8  | 49.9  | 46.5  | 43.5  |
| 84.00             | 60.00              | 24.00               | 62.1                 | 54.8  | 49.4  | 45.3  | 42.0  | 39.3  | 36.9  |
| 90.00             | 66.00              | 24.00               | 53.0                 | 46.8  | 42.1  | 38.5  | 35.7  | 33.5  | 31.6  |
| 96.00             | 72.00              | 24.00               | 45.8                 | 40.3  | 36.2  | 33.1  | 30.7  | 28.7  | 27.1  |

**Chart #4**  
**M1 Mullion with 36" transom**

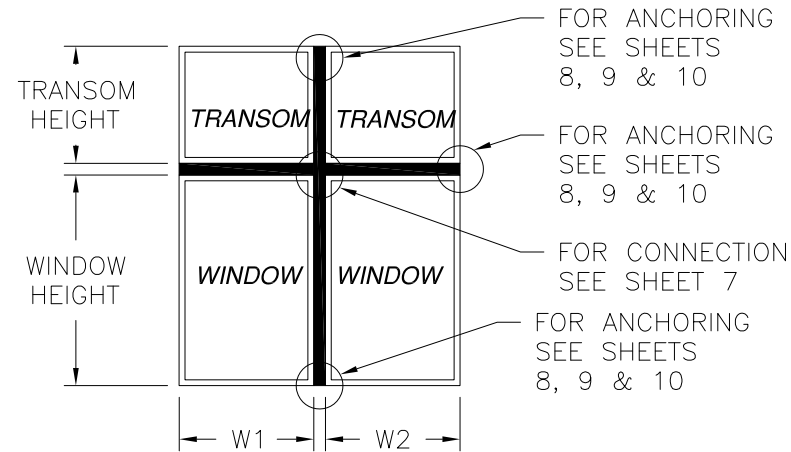
| Mullion span (in) | Window Height (in) | Transom Height (in) | Tributary width (in) |       |       |       |       |       |       |
|-------------------|--------------------|---------------------|----------------------|-------|-------|-------|-------|-------|-------|
|                   |                    |                     | 36.00                | 42.00 | 48.00 | 54.00 | 60.00 | 66.00 | 72.00 |
| 72.00             | 36.00              | 36.00               | 90.7                 | 80.1  | 71.6  | 64.8  | 59.2  | 54.4  | 50.4  |
| 78.00             | 42.00              | 36.00               | 76.0                 | 67.1  | 60.2  | 54.6  | 49.9  | 46.0  | 42.6  |
| 84.00             | 48.00              | 36.00               | 64.5                 | 56.8  | 51.0  | 46.4  | 42.5  | 39.2  | 36.4  |
| 90.00             | 54.00              | 36.00               | 55.3                 | 48.7  | 43.6  | 39.7  | 36.5  | 33.8  | 31.5  |
| 96.00             | 60.00              | 36.00               | 47.9                 | 42.1  | 37.7  | 34.3  | 31.6  | 29.3  | 27.3  |
| 102.00            | 66.00              | 36.00               | 41.8                 | 36.7  | 32.8  | 29.8  | 27.4  | 25.5  | 23.9  |
| 108.00            | 72.00              | 36.00               | 36.8                 | 32.2  | 28.8  | 26.2  | 24.1  | 22.4  | 20.9  |

SIGNED: 08/28/2024

|                                                                                                      |                     |               |
|------------------------------------------------------------------------------------------------------|---------------------|---------------|
| REILLY WINDOWS & DOORS<br>901 BURMAN BLVD.<br>CALVERTON, NY 11933                                    |                     |               |
| X-MULLION<br>IMPACT<br>CONFIGURATIONS AND CHARTS WITH M1 MULLION                                     |                     |               |
| DRAWN:<br>A.R.                                                                                       | DWG NO.<br>08-03957 | REV<br>A      |
| SCALE NTS                                                                                            | DATE 07/28/2023     | SHEET 2 OF 15 |
| L. ROBERTO LOMAS P.E.<br>208 7th AVENUE, INDIALANTIC, FL 32903<br>434-688-0609 rllomas@lrlomaspe.com |                     |               |



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



SEE CHARTS 5-8 FOR DESIGN PRESSURE RATINGS

| REVISIONS |                   |            |          |
|-----------|-------------------|------------|----------|
| REV       | DESCRIPTION       | DATE       | APPROVED |
| A         | ADDED MZ1 MULLION | 08/28/2024 | R.L.     |

Chart #5  
M2 Mullion with 18" transom

| Mullion span (in) | Window Height (in) | Transom Height (in) | Tributary width (in) |       |       |       |       |       |       |
|-------------------|--------------------|---------------------|----------------------|-------|-------|-------|-------|-------|-------|
|                   |                    |                     | 36.00                | 42.00 | 48.00 | 54.00 | 60.00 | 66.00 | 72.00 |
| 66.00             | 48.00              | 18.00               | 120.0                | 120.0 | 120.0 | 120.0 | 120.0 | 118.9 | 111.4 |
| 72.00             | 54.00              | 18.00               | 120.0                | 120.0 | 120.0 | 111.9 | 104.5 | 98.0  | 92.3  |
| 78.00             | 60.00              | 18.00               | 120.0                | 110.4 | 100.1 | 92.4  | 86.4  | 81.4  | 77.0  |
| 84.00             | 66.00              | 18.00               | 104.9                | 92.9  | 84.1  | 77.4  | 72.2  | 68.2  | 64.8  |
| 90.00             | 72.00              | 18.00               | 89.5                 | 79.2  | 71.5  | 65.7  | 61.2  | 57.6  | 54.8  |
| 96.00             | 78.00              | 18.00               | 77.3                 | 68.2  | 61.5  | 56.4  | 52.4  | 49.3  | 46.7  |
| 102.00            | 84.00              | 18.00               | 67.3                 | 59.3  | 53.4  | 48.9  | 45.4  | 42.6  | 40.3  |

Chart #7  
M2 Mullion with 30" transom

| Mullion span (in) | Window Height (in) | Transom Height (in) | Tributary width (in) |       |       |       |       |       |       |
|-------------------|--------------------|---------------------|----------------------|-------|-------|-------|-------|-------|-------|
|                   |                    |                     | 36.00                | 42.00 | 48.00 | 54.00 | 60.00 | 66.00 | 72.00 |
| 78.00             | 48.00              | 30.00               | 120.0                | 115.5 | 103.9 | 94.6  | 86.9  | 80.4  | 74.7  |
| 84.00             | 54.00              | 30.00               | 110.7                | 97.5  | 87.6  | 80.0  | 73.8  | 68.4  | 63.8  |
| 90.00             | 60.00              | 30.00               | 94.7                 | 83.3  | 74.8  | 68.2  | 63.0  | 58.7  | 54.9  |
| 96.00             | 66.00              | 30.00               | 81.9                 | 71.9  | 64.5  | 58.8  | 54.2  | 50.6  | 47.5  |
| 102.00            | 72.00              | 30.00               | 71.4                 | 62.6  | 56.1  | 51.1  | 47.1  | 43.9  | 41.3  |
| 108.00            | 78.00              | 30.00               | 62.7                 | 55.0  | 49.2  | 44.8  | 41.3  | 38.4  | 36.1  |
| 114.00            | 84.00              | 30.00               | 55.5                 | 48.6  | 43.5  | 39.5  | 36.4  | 33.8  | 31.8  |

Chart #6  
M2 Mullion with 24" transom

| Mullion span (in) | Window Height (in) | Transom Height (in) | Tributary width (in) |       |       |       |       |       |       |
|-------------------|--------------------|---------------------|----------------------|-------|-------|-------|-------|-------|-------|
|                   |                    |                     | 36.00                | 42.00 | 48.00 | 54.00 | 60.00 | 66.00 | 72.00 |
| 72.00             | 48.00              | 24.00               | 120.0                | 120.0 | 120.0 | 112.7 | 103.9 | 96.4  | 89.9  |
| 78.00             | 54.00              | 24.00               | 120.0                | 113.2 | 102.2 | 93.8  | 86.9  | 80.9  | 75.8  |
| 84.00             | 60.00              | 24.00               | 108.1                | 95.4  | 86.0  | 78.8  | 73.2  | 68.5  | 64.3  |
| 90.00             | 66.00              | 24.00               | 92.4                 | 81.4  | 73.3  | 67.1  | 62.2  | 58.3  | 55.0  |
| 96.00             | 72.00              | 24.00               | 79.7                 | 70.2  | 63.1  | 57.7  | 53.4  | 50.0  | 47.2  |
| 102.00            | 78.00              | 24.00               | 69.5                 | 61.1  | 54.9  | 50.1  | 46.3  | 43.3  | 40.8  |
| 108.00            | 84.00              | 24.00               | 61.0                 | 53.6  | 48.1  | 43.8  | 40.5  | 37.8  | 35.6  |

Chart #8  
M2 Mullion with 36" transom

| Mullion span (in) | Window Height (in) | Transom Height (in) | Tributary width (in) |       |       |       |       |       |       |
|-------------------|--------------------|---------------------|----------------------|-------|-------|-------|-------|-------|-------|
|                   |                    |                     | 36.00                | 42.00 | 48.00 | 54.00 | 60.00 | 66.00 | 72.00 |
| 84.00             | 48.00              | 36.00               | 112.4                | 99.0  | 88.8  | 80.8  | 74.0  | 68.3  | 63.5  |
| 90.00             | 54.00              | 36.00               | 96.4                 | 84.7  | 76.0  | 69.2  | 63.6  | 58.9  | 54.8  |
| 96.00             | 60.00              | 36.00               | 83.4                 | 73.3  | 65.6  | 59.7  | 54.9  | 51.0  | 47.6  |
| 102.00            | 66.00              | 36.00               | 72.8                 | 63.9  | 57.2  | 52.0  | 47.8  | 44.4  | 41.6  |
| 108.00            | 72.00              | 36.00               | 64.1                 | 56.1  | 50.2  | 45.6  | 41.9  | 38.9  | 36.5  |
| 114.00            | 78.00              | 36.00               | 56.7                 | 49.7  | 44.4  | 40.3  | 37.0  | 34.4  | 32.2  |
| 120.00            | 84.00              | 36.00               | 50.6                 | 44.2  | 39.5  | 35.8  | 32.9  | 30.5  | 28.5  |

SIGNED: 08/28/2024

REILLY WINDOWS & DOORS  
901 BURMAN BLVD.  
CALVERTON, NY 11933

X-MULLION  
IMPACT  
CONFIGURATIONS AND CHARTS WITH M2 MULLION

DRAWN:  
A.R.

DWG NO.  
08-03957

REV  
A

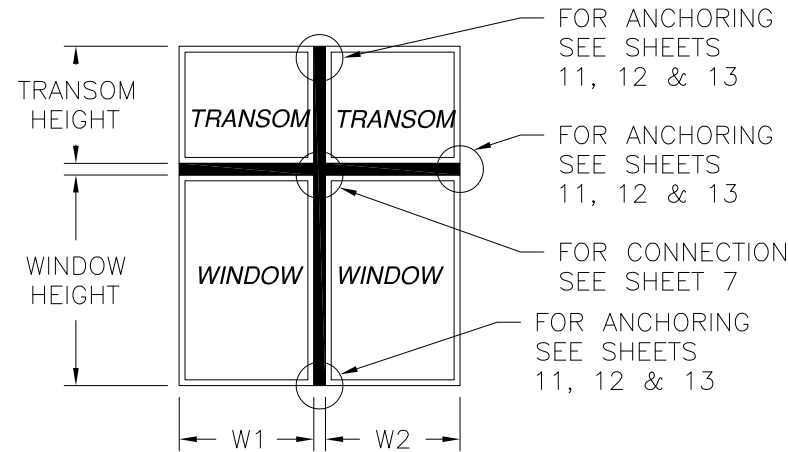
SCALE  
NTS

DATE  
07/28/2023

SHEET  
3 OF 15

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



SEE CHARTS 9-12 FOR DESIGN PRESSURE RATINGS

| REVISIONS |                   |            |          |
|-----------|-------------------|------------|----------|
| REV       | DESCRIPTION       | DATE       | APPROVED |
| A         | ADDED MZ1 MULLION | 08/28/2024 | R.L.     |

Chart #9  
M3 Mullion with 18" transom

| Mullion span (in) | Window Height (in) | Transom Height (in) | Tributary width (in) |       |       |       |       |       |       |
|-------------------|--------------------|---------------------|----------------------|-------|-------|-------|-------|-------|-------|
|                   |                    |                     | 48.00                | 54.00 | 60.00 | 66.00 | 72.00 | 78.00 | 84.00 |
| 78.00             | 60.00              | 18.00               | 120.0                | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 |
| 84.00             | 66.00              | 18.00               | 120.0                | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 |
| 90.00             | 72.00              | 18.00               | 120.0                | 120.0 | 120.0 | 120.0 | 120.0 | 117.8 | 112.8 |
| 96.00             | 78.00              | 18.00               | 120.0                | 120.0 | 118.0 | 110.9 | 105.2 | 100.6 | 96.6  |
| 102.00            | 84.00              | 18.00               | 120.0                | 110.1 | 102.1 | 95.8  | 90.7  | 86.5  | 83.2  |
| 108.00            | 90.00              | 18.00               | 105.4                | 96.3  | 89.2  | 83.5  | 78.9  | 75.2  | 72.1  |
| 114.00            | 96.00              | 18.00               | 93.0                 | 84.9  | 78.6  | 73.4  | 69.3  | 65.9  | 63.1  |

Chart #11  
M3 Mullion with 30" transom

| Mullion span (in) | Window Height (in) | Transom Height (in) | Tributary width (in) |       |       |       |       |       |       |
|-------------------|--------------------|---------------------|----------------------|-------|-------|-------|-------|-------|-------|
|                   |                    |                     | 48.00                | 54.00 | 60.00 | 66.00 | 72.00 | 78.00 | 84.00 |
| 90.00             | 60.00              | 30.00               | 120.0                | 120.0 | 120.0 | 120.0 | 120.0 | 116.1 | 109.5 |
| 96.00             | 66.00              | 30.00               | 120.0                | 120.0 | 120.0 | 113.8 | 106.8 | 100.7 | 95.2  |
| 102.00            | 72.00              | 30.00               | 120.0                | 115.0 | 106.0 | 98.8  | 92.8  | 87.7  | 83.2  |
| 108.00            | 78.00              | 30.00               | 110.8                | 100.8 | 92.8  | 86.4  | 81.1  | 76.8  | 73.0  |
| 114.00            | 84.00              | 30.00               | 97.9                 | 89.0  | 81.9  | 76.2  | 71.5  | 67.6  | 64.3  |
| 120.00            | 90.00              | 30.00               | 87.1                 | 79.1  | 72.7  | 67.6  | 63.4  | 59.8  | 56.9  |
| 126.00            | 96.00              | 30.00               | 77.9                 | 70.7  | 65.0  | 60.3  | 56.5  | 53.3  | 50.6  |

Chart #10  
M3 Mullion with 24" transom

| Mullion span (in) | Window Height (in) | Transom Height (in) | Tributary width (in) |       |       |       |       |       |       |
|-------------------|--------------------|---------------------|----------------------|-------|-------|-------|-------|-------|-------|
|                   |                    |                     | 48.00                | 54.00 | 60.00 | 66.00 | 72.00 | 78.00 | 84.00 |
| 84.00             | 60.00              | 24.00               | 120.0                | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 |
| 90.00             | 66.00              | 24.00               | 120.0                | 120.0 | 120.0 | 120.0 | 120.0 | 117.0 | 111.1 |
| 96.00             | 72.00              | 24.00               | 120.0                | 120.0 | 120.0 | 112.4 | 106.2 | 100.8 | 96.0  |
| 102.00            | 78.00              | 24.00               | 120.0                | 112.7 | 104.2 | 97.4  | 91.8  | 87.3  | 83.3  |
| 108.00            | 84.00              | 24.00               | 108.2                | 98.7  | 91.1  | 85.1  | 80.1  | 76.0  | 72.7  |
| 114.00            | 90.00              | 24.00               | 95.6                 | 87.0  | 80.3  | 74.9  | 70.4  | 66.8  | 63.7  |
| 120.00            | 96.00              | 24.00               | 85.0                 | 77.3  | 71.3  | 66.4  | 62.4  | 59.1  | 56.3  |

Chart #12  
M3 Mullion with 36" transom

| Mullion span (in) | Window Height (in) | Transom Height (in) | Tributary width (in) |       |       |       |       |       |       |
|-------------------|--------------------|---------------------|----------------------|-------|-------|-------|-------|-------|-------|
|                   |                    |                     | 48.00                | 54.00 | 60.00 | 66.00 | 72.00 | 78.00 | 84.00 |
| 96.00             | 60.00              | 36.00               | 120.0                | 120.0 | 120.0 | 114.8 | 107.1 | 100.4 | 94.4  |
| 102.00            | 66.00              | 36.00               | 120.0                | 116.9 | 107.6 | 100.0 | 93.5  | 87.9  | 82.9  |
| 108.00            | 72.00              | 36.00               | 112.9                | 102.6 | 94.3  | 87.6  | 82.1  | 77.3  | 73.1  |
| 114.00            | 78.00              | 36.00               | 99.9                 | 90.6  | 83.3  | 77.3  | 72.4  | 68.2  | 64.7  |
| 120.00            | 84.00              | 36.00               | 88.9                 | 80.6  | 74.0  | 68.7  | 64.2  | 60.5  | 57.4  |
| 126.00            | 90.00              | 36.00               | 79.5                 | 72.1  | 66.2  | 61.3  | 57.3  | 54.0  | 51.2  |
| 132.00            | 96.00              | 36.00               | 71.6                 | 64.8  | 59.5  | 55.1  | 51.5  | 48.5  | 45.9  |

SIGNED: 08/28/2024

REILLY WINDOWS & DOORS  
901 BURMAN BLVD.  
CALVERTON, NY 11933

X-MULLION  
IMPACT  
CONFIGURATIONS AND CHARTS WITH M3 MULLION

DRAWN:  
A.R.

DWG NO.  
08-03957

REV  
A

SCALE  
NTS

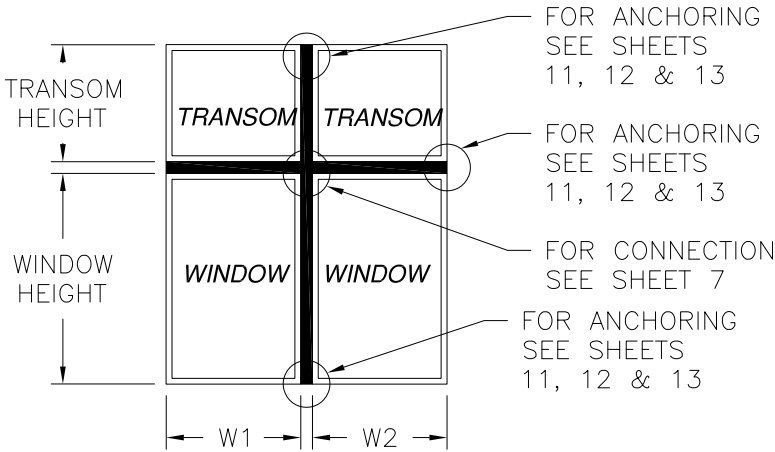
DATE  
07/28/2023

SHEET  
4 OF 15

L. ROBERTO LOMAS P.E.  
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Luis R. Lomas P.E.  
FL No.: 62514

| REVISIONS |                   |            |          |
|-----------|-------------------|------------|----------|
| REV       | DESCRIPTION       | DATE       | APPROVED |
| A         | ADDED MZ1 MULLION | 08/28/2024 | R.L.     |



SEE CHARTS 13-16 FOR DESIGN PRESSURE RATINGS

Chart #13  
M4 Mullion with 18" transom

| Mullion span (in) | Window Height (in) | Transom Height (in) | Tributary width (in) |       |       |       |       |       |       |
|-------------------|--------------------|---------------------|----------------------|-------|-------|-------|-------|-------|-------|
|                   |                    |                     | 60.00                | 66.00 | 72.00 | 78.00 | 84.00 | 90.00 | 96.00 |
| 90.00             | 72.00              | 18.00               | 120.0                | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 |
| 96.00             | 78.00              | 18.00               | 120.0                | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 |
| 102.00            | 84.00              | 18.00               | 120.0                | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 | 116.3 |
| 108.00            | 90.00              | 18.00               | 120.0                | 120.0 | 118.4 | 112.8 | 108.2 | 104.4 | 101.1 |
| 114.00            | 96.00              | 18.00               | 117.8                | 110.2 | 103.9 | 98.8  | 94.6  | 91.1  | 88.3  |
| 120.00            | 102.00             | 18.00               | 104.5                | 97.6  | 91.9  | 87.3  | 83.4  | 80.2  | 77.5  |
| 126.00            | 108.00             | 18.00               | 93.3                 | 87.0  | 81.8  | 77.6  | 74.0  | 71.1  | 68.6  |

Chart #15  
M4 Mullion with 30" transom

| Mullion span (in) | Window Height (in) | Transom Height (in) | Tributary width (in) |       |       |       |       |       |       |
|-------------------|--------------------|---------------------|----------------------|-------|-------|-------|-------|-------|-------|
|                   |                    |                     | 60.00                | 66.00 | 72.00 | 78.00 | 84.00 | 90.00 | 96.00 |
| 102.00            | 72.00              | 30.00               | 120.0                | 120.0 | 120.0 | 120.0 | 120.0 | 118.6 | 113.0 |
| 108.00            | 78.00              | 30.00               | 120.0                | 120.0 | 120.0 | 115.2 | 109.5 | 104.3 | 99.6  |
| 114.00            | 84.00              | 30.00               | 120.0                | 114.2 | 107.2 | 101.3 | 96.4  | 92.1  | 88.1  |
| 120.00            | 90.00              | 30.00               | 109.1                | 101.4 | 95.0  | 89.8  | 85.3  | 81.6  | 78.2  |
| 126.00            | 96.00              | 30.00               | 97.4                 | 90.5  | 84.8  | 80.0  | 76.0  | 72.6  | 69.6  |
| 132.00            | 102.00             | 30.00               | 87.5                 | 81.2  | 76.0  | 71.7  | 68.0  | 64.9  | 62.3  |
| 138.00            | 108.00             | 30.00               | 79.0                 | 73.3  | 68.5  | 64.6  | 61.2  | 58.4  | 55.9  |

Chart #14  
M4 Mullion with 24" transom

| Mullion span (in) | Window Height (in) | Transom Height (in) | Tributary width (in) |       |       |       |       |       |       |
|-------------------|--------------------|---------------------|----------------------|-------|-------|-------|-------|-------|-------|
|                   |                    |                     | 60.00                | 66.00 | 72.00 | 78.00 | 84.00 | 90.00 | 96.00 |
| 96.00             | 72.00              | 24.00               | 120.0                | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 |
| 102.00            | 78.00              | 24.00               | 120.0                | 120.0 | 120.0 | 120.0 | 120.0 | 119.6 | 114.7 |
| 108.00            | 84.00              | 24.00               | 120.0                | 120.0 | 120.0 | 114.1 | 109.0 | 104.6 | 100.5 |
| 114.00            | 90.00              | 24.00               | 120.0                | 112.3 | 105.7 | 100.2 | 95.6  | 91.7  | 88.4  |
| 120.00            | 96.00              | 24.00               | 106.9                | 99.6  | 93.6  | 88.6  | 84.4  | 80.9  | 78.0  |
| 126.00            | 102.00             | 24.00               | 95.4                 | 88.8  | 83.4  | 78.8  | 75.1  | 71.9  | 69.2  |
| 132.00            | 108.00             | 24.00               | 85.7                 | 79.7  | 74.7  | 70.6  | 67.1  | 64.2  | 61.7  |

Chart #16  
M4 Mullion with 36" transom

| Mullion span (in) | Window Height (in) | Transom Height (in) | Tributary width (in) |       |       |       |       |       |       |
|-------------------|--------------------|---------------------|----------------------|-------|-------|-------|-------|-------|-------|
|                   |                    |                     | 60.00                | 66.00 | 72.00 | 78.00 | 84.00 | 90.00 | 96.00 |
| 108.00            | 72.00              | 36.00               | 120.0                | 120.0 | 120.0 | 115.9 | 109.6 | 103.9 | 98.8  |
| 114.00            | 78.00              | 36.00               | 120.0                | 115.9 | 108.5 | 102.4 | 97.0  | 92.1  | 87.8  |
| 120.00            | 84.00              | 36.00               | 111.0                | 103.0 | 96.3  | 90.8  | 86.1  | 82.0  | 78.2  |
| 126.00            | 90.00              | 36.00               | 99.2                 | 92.0  | 86.0  | 81.0  | 76.8  | 73.2  | 70.0  |
| 132.00            | 96.00              | 36.00               | 89.2                 | 82.6  | 77.2  | 72.7  | 68.8  | 65.6  | 62.7  |
| 138.00            | 102.00             | 36.00               | 80.5                 | 74.6  | 69.7  | 65.5  | 62.0  | 59.0  | 56.5  |
| 144.00            | 108.00             | 36.00               | 73.1                 | 67.6  | 63.1  | 59.3  | 56.1  | 53.4  | 51.0  |

SIGNED: 08/28/2024

REILLY WINDOWS & DOORS  
901 BURMAN BLVD.  
CALVERTON, NY 11933

X-MULLION  
IMPACT  
CONFIGURATIONS AND CHARTS WITH M4 MULLION

DRAWN:  
A.R.

DWG NO.  
08-03957

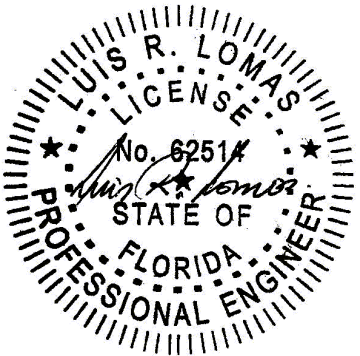
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DATE  
07/28/2023

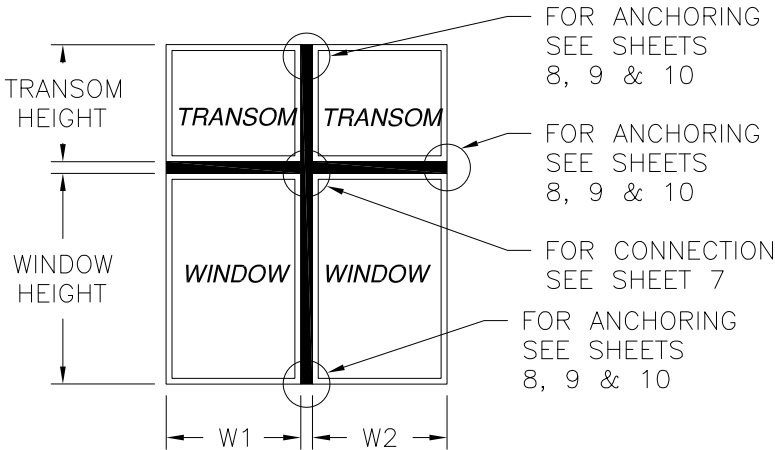
SHEET  
5 OF 15

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Luis R. Lomas P.E.  
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| REVISIONS |                   |            |          |
|-----------|-------------------|------------|----------|
| REV       | DESCRIPTION       | DATE       | APPROVED |
| A         | ADDED MZ1 MULLION | 08/28/2024 | R.L.     |



SEE CHARTS 17-20 FOR DESIGN PRESSURE RATINGS

Chart #17  
MZ1 Mullion with 18" transom

| Mullion span (in) | Window Height (in) | Transom Height (in) | Tributary width (in) |       |       |       |       |       |       |
|-------------------|--------------------|---------------------|----------------------|-------|-------|-------|-------|-------|-------|
|                   |                    |                     | 36.00                | 42.00 | 48.00 | 54.00 | 60.00 | 66.00 | 72.00 |
| 54.00             | 36.00              | 18.00               | 120.0                | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 |
| 60.00             | 42.00              | 18.00               | 120.0                | 120.0 | 120.0 | 120.0 | 120.0 | 113.7 | 106.1 |
| 66.00             | 48.00              | 18.00               | 120.0                | 120.0 | 116.2 | 107.2 | 99.5  | 92.9  | 87.0  |
| 72.00             | 54.00              | 18.00               | 116.9                | 104.0 | 94.5  | 87.4  | 81.6  | 76.6  | 72.1  |
| 78.00             | 60.00              | 18.00               | 97.2                 | 86.2  | 78.2  | 72.2  | 67.5  | 63.6  | 60.2  |
| 84.00             | 66.00              | 18.00               | 81.9                 | 72.6  | 65.7  | 60.5  | 56.4  | 53.3  | 50.6  |
| 90.00             | 72.00              | 18.00               | 69.9                 | 61.8  | 55.9  | 51.3  | 47.8  | 45.0  | 42.8  |

Chart #19  
MZ1 Mullion with 30" transom

| Mullion span (in) | Window Height (in) | Transom Height (in) | Tributary width (in) |       |       |       |       |       |       |
|-------------------|--------------------|---------------------|----------------------|-------|-------|-------|-------|-------|-------|
|                   |                    |                     | 36.00                | 42.00 | 48.00 | 54.00 | 60.00 | 66.00 | 72.00 |
| 66.00             | 36.00              | 30.00               | 120.0                | 120.0 | 117.5 | 106.3 | 97.0  | 89.2  | 82.6  |
| 72.00             | 42.00              | 30.00               | 120.0                | 108.2 | 97.2  | 88.2  | 80.7  | 74.4  | 69.0  |
| 78.00             | 48.00              | 30.00               | 102.3                | 90.2  | 81.1  | 73.9  | 67.9  | 62.8  | 58.4  |
| 84.00             | 54.00              | 30.00               | 86.5                 | 76.2  | 68.5  | 62.5  | 57.6  | 53.5  | 49.9  |
| 90.00             | 60.00              | 30.00               | 74.0                 | 65.1  | 58.4  | 53.3  | 49.2  | 45.8  | 42.9  |
| 96.00             | 66.00              | 30.00               | 63.9                 | 56.2  | 50.4  | 45.9  | 42.4  | 39.5  | 37.1  |
| 102.00            | 72.00              | 30.00               | 55.8                 | 48.9  | 43.8  | 39.9  | 36.8  | 34.3  | 32.2  |

Chart #18  
MZ1 Mullion with 24" transom

| Mullion span (in) | Window Height (in) | Transom Height (in) | Tributary width (in) |       |       |       |       |       |       |
|-------------------|--------------------|---------------------|----------------------|-------|-------|-------|-------|-------|-------|
|                   |                    |                     | 36.00                | 42.00 | 48.00 | 54.00 | 60.00 | 66.00 | 72.00 |
| 60.00             | 36.00              | 24.00               | 120.0                | 120.0 | 120.0 | 120.0 | 119.6 | 110.1 | 102.0 |
| 66.00             | 42.00              | 24.00               | 120.0                | 120.0 | 117.2 | 106.7 | 97.9  | 90.5  | 84.1  |
| 72.00             | 48.00              | 24.00               | 120.0                | 106.4 | 96.2  | 88.0  | 81.2  | 75.3  | 70.2  |
| 78.00             | 54.00              | 24.00               | 100.1                | 88.5  | 79.8  | 73.2  | 67.9  | 63.2  | 59.2  |
| 84.00             | 60.00              | 24.00               | 84.5                 | 74.6  | 67.2  | 61.6  | 57.2  | 53.5  | 50.3  |
| 90.00             | 66.00              | 24.00               | 72.2                 | 63.6  | 57.3  | 52.4  | 48.6  | 45.5  | 42.9  |
| 96.00             | 72.00              | 24.00               | 62.3                 | 54.8  | 49.3  | 45.1  | 41.7  | 39.0  | 36.9  |

Chart #20  
MZ1 Mullion with 36" transom

| Mullion span (in) | Window Height (in) | Transom Height (in) | Tributary width (in) |       |       |       |       |       |       |
|-------------------|--------------------|---------------------|----------------------|-------|-------|-------|-------|-------|-------|
|                   |                    |                     | 36.00                | 42.00 | 48.00 | 54.00 | 60.00 | 66.00 | 72.00 |
| 72.00             | 36.00              | 36.00               | 120.0                | 108.9 | 97.5  | 88.2  | 80.5  | 74.1  | 68.6  |
| 78.00             | 42.00              | 36.00               | 103.5                | 91.3  | 81.9  | 74.2  | 67.9  | 62.5  | 58.0  |
| 84.00             | 48.00              | 36.00               | 87.8                 | 77.3  | 69.4  | 63.1  | 57.8  | 53.4  | 49.6  |
| 90.00             | 54.00              | 36.00               | 75.3                 | 66.2  | 59.4  | 54.0  | 49.7  | 46.0  | 42.8  |
| 96.00             | 60.00              | 36.00               | 65.2                 | 57.2  | 51.3  | 46.6  | 42.9  | 39.8  | 37.2  |
| 102.00            | 66.00              | 36.00               | 56.9                 | 49.9  | 44.7  | 40.6  | 37.3  | 34.7  | 32.5  |
| 108.00            | 72.00              | 36.00               | 50.1                 | 43.9  | 39.2  | 35.6  | 32.7  | 30.4  | 28.5  |

SIGNED: 08/28/2024

REILLY WINDOWS & DOORS  
901 BURMAN BLVD.  
CALVERTON, NY 11933

X-MULLION  
IMPACT  
CONFIGURATIONS AND CHARTS WITH MZ1 MULLION

DRAWN:  
A.R.

DWG NO.  
08-03957

REV  
A

SCALE NTS

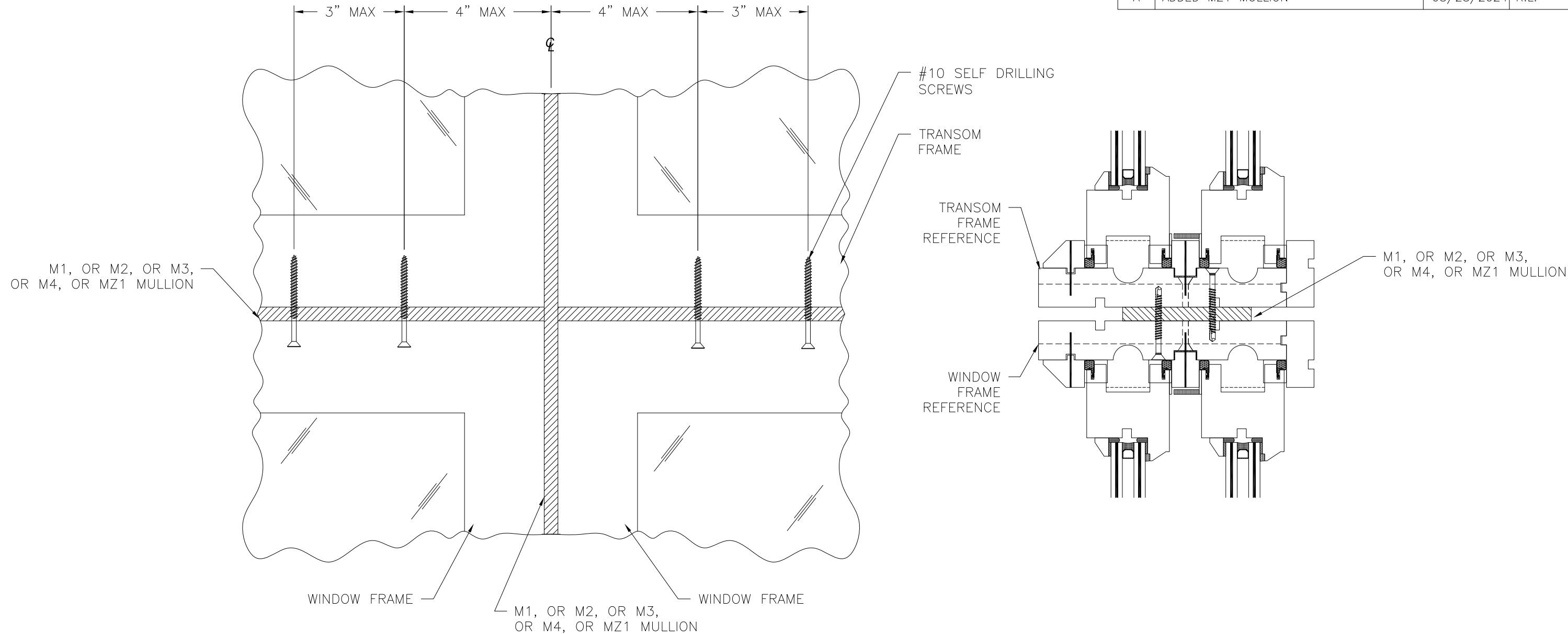
DATE 07/28/2023

SHEET 6 OF 15

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Luis R. Lomas P.E.  
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| REVISIONS |                   |            |          |
|-----------|-------------------|------------|----------|
| REV       | DESCRIPTION       | DATE       | APPROVED |
| A         | ADDED MZ1 MULLION | 08/28/2024 | R.L.     |



TRANSOM/WINDOW CONNECTION DETAIL

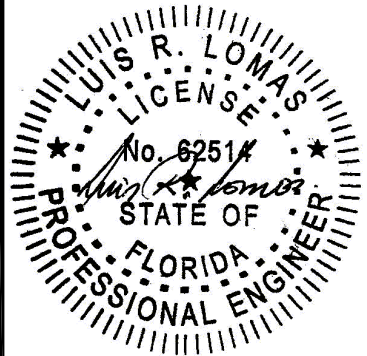
SIGNED: 08/28/2024

REILLY WINDOWS & DOORS  
901 BURMAN BLVD.  
CALVERTON, NY 11933

X-MULLION  
IMPACT  
INSTALLATION DETAILS

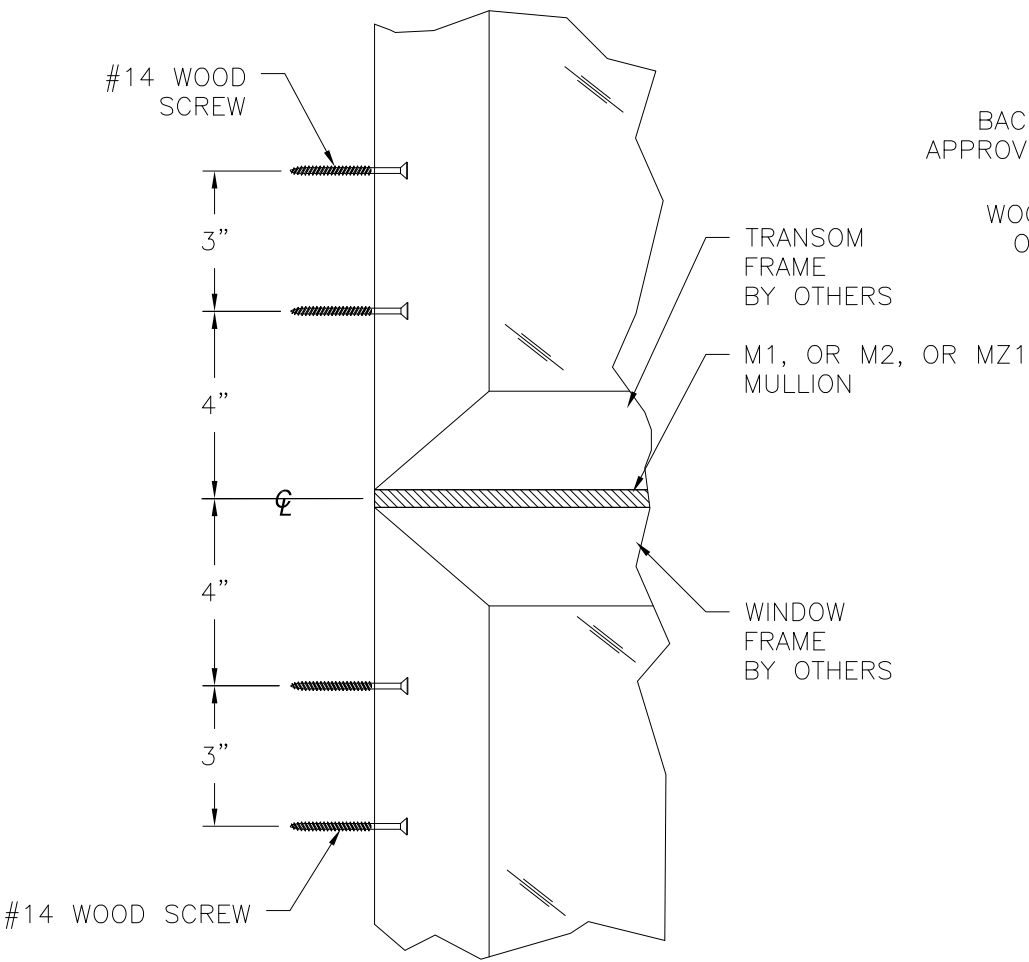
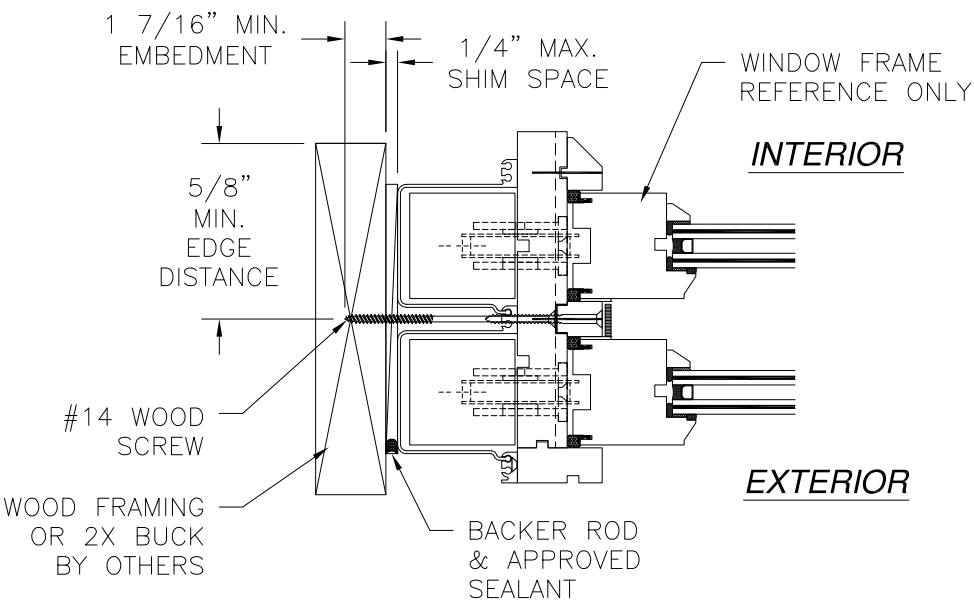
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| DRAWN:<br>A.R. | DWG NO.<br>08-03957 | REV<br>A      |
| SCALE NTS      | DATE 07/28/2023     | SHEET 7 OF 15 |

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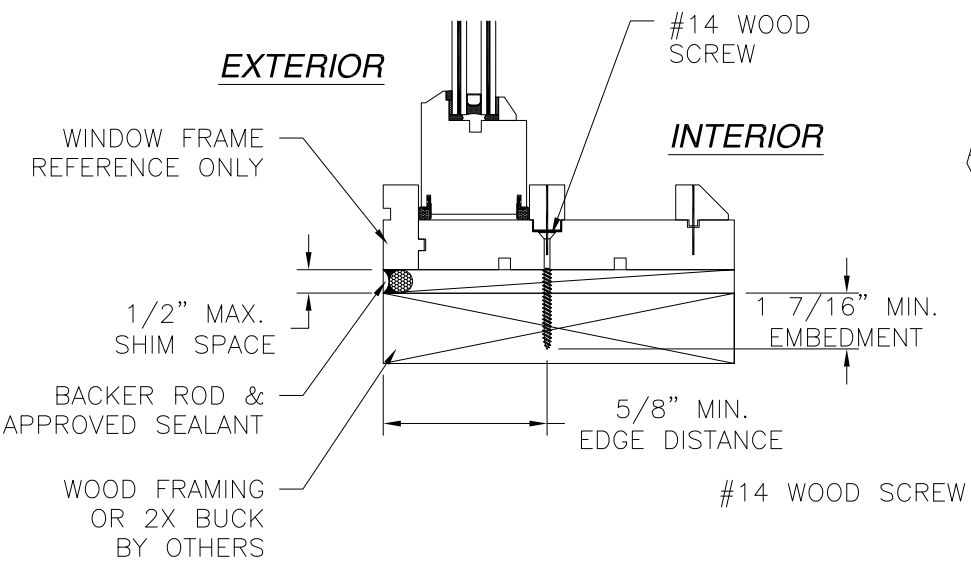


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FL No.: 62514

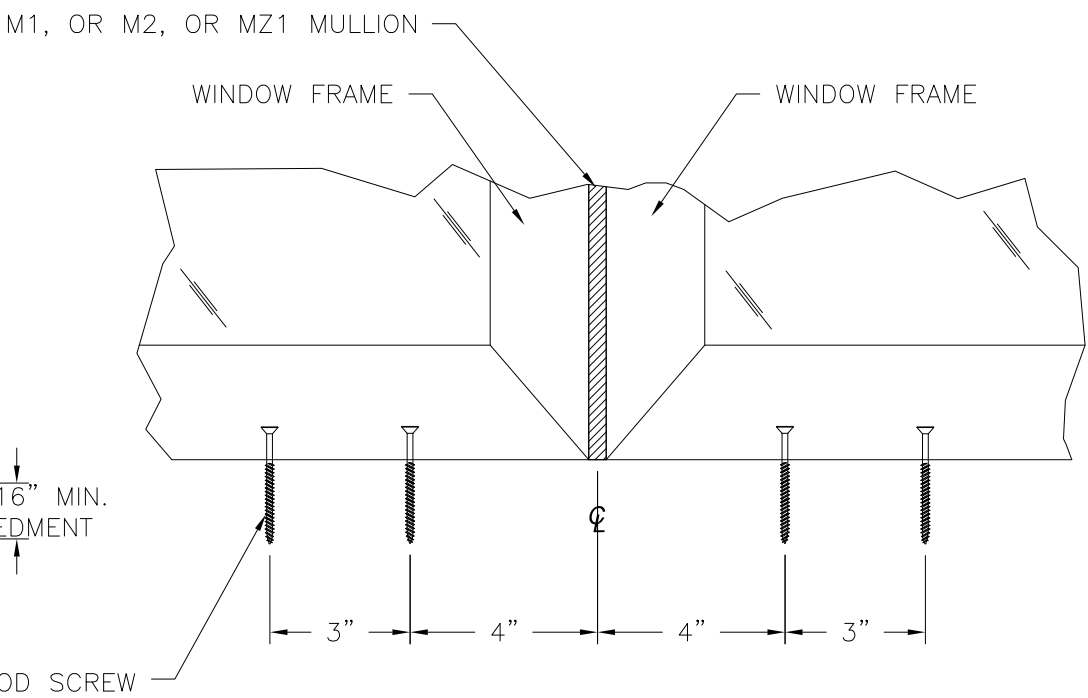
| REVISIONS |                   |            |          |
|-----------|-------------------|------------|----------|
| REV       | DESCRIPTION       | DATE       | APPROVED |
| A         | ADDED MZ1 MULLION | 08/28/2024 | R.L.     |



**M1, OR M2, OR MZ1 HORIZONTAL MULLION DETAIL**  
WOOD FRAMING OR 2X BUCK INSTALLATION



**M1, OR M2, OR MZ1 VERTICAL MULLION DETAIL**  
WOOD FRAMING OR 2X BUCK INSTALLATION



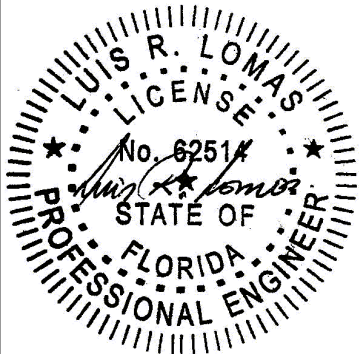
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REILLY WINDOWS & DOORS  
901 BURMAN BLVD.  
CALVERTON, NY 11933

X-MULLION  
IMPACT  
INSTALLATION DETAILS M1 OR M2 OR MZ1 MULLION

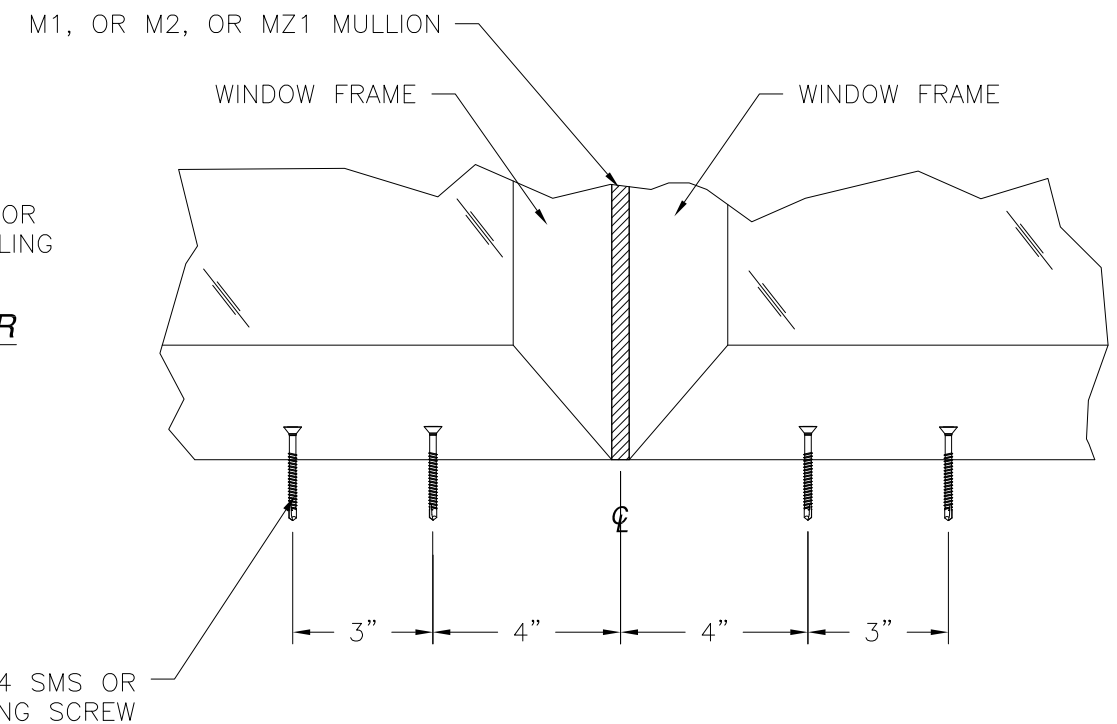
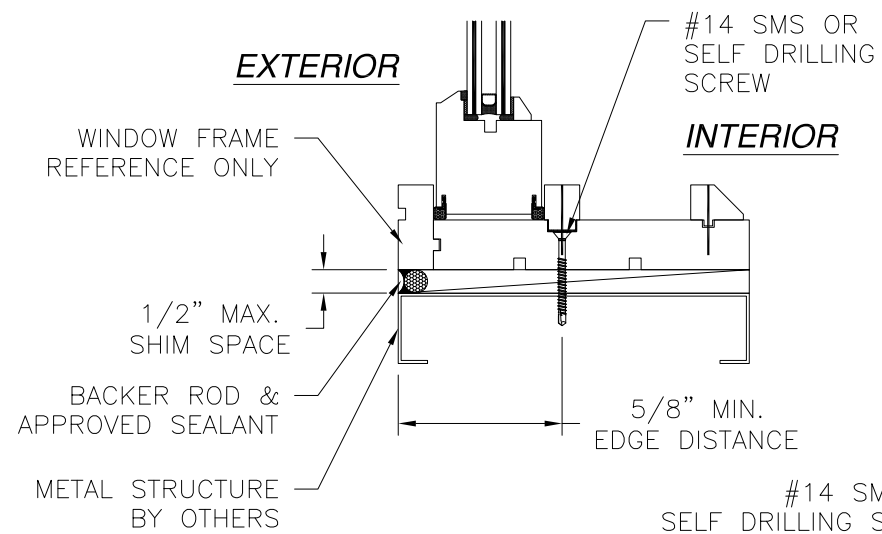
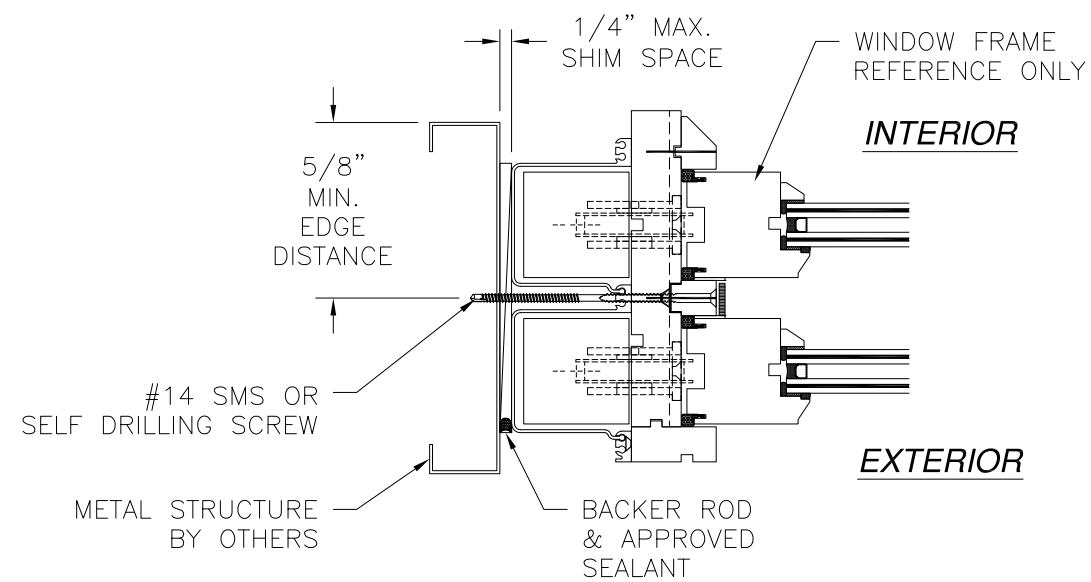
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| DRAWN:<br>A.R. | DWG NO.<br>08-03957 | REV<br>A         |
| SCALE<br>NTS   | DATE<br>07/28/2023  | SHEET<br>8 OF 15 |

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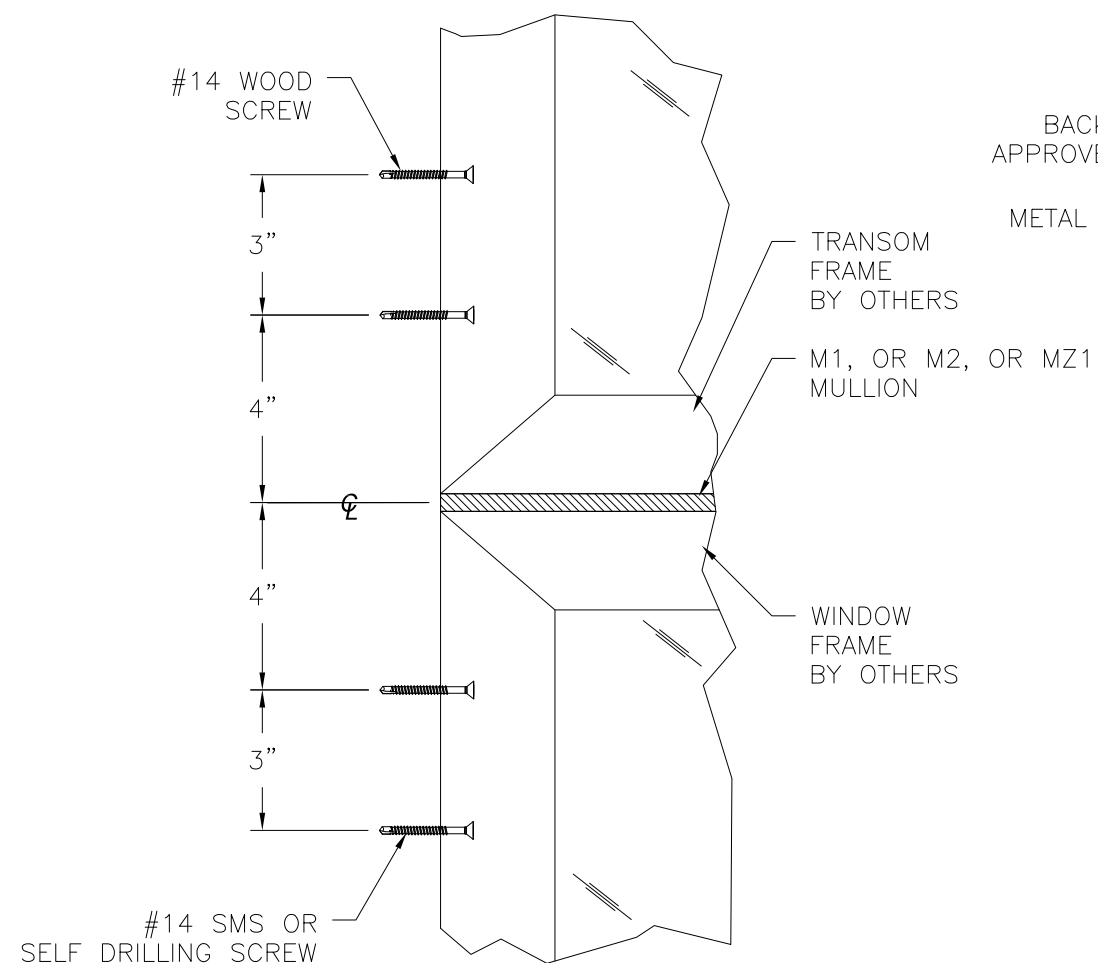


Luis R. Lomas P.E.  
FL No.: 62514

| REVISIONS |                   |            |          |
|-----------|-------------------|------------|----------|
| REV       | DESCRIPTION       | DATE       | APPROVED |
| A         | ADDED MZ1 MULLION | 08/28/2024 | R.L.     |



**M1, OR M2, OR MZ1 VERTICAL MULLION DETAIL**  
METAL STRUCTURE INSTALLATION



**M1, OR M2, OR MZ1 HORIZONTAL MULLION DETAIL**  
METAL STRUCTURE INSTALLATION

SIGNED: 08/28/2024

REILLY WINDOWS & DOORS

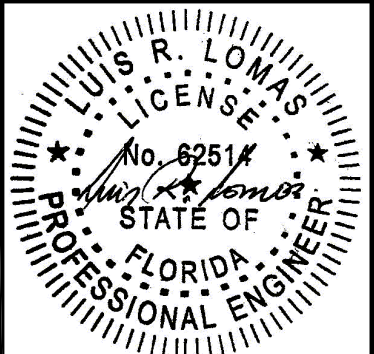
901 BURMAN BLVD.  
CALVERTON, NY 11933

X-MULLION  
IMPACT  
INSTALLATION DETAILS M1 OR M2 OR MZ1 MULLION

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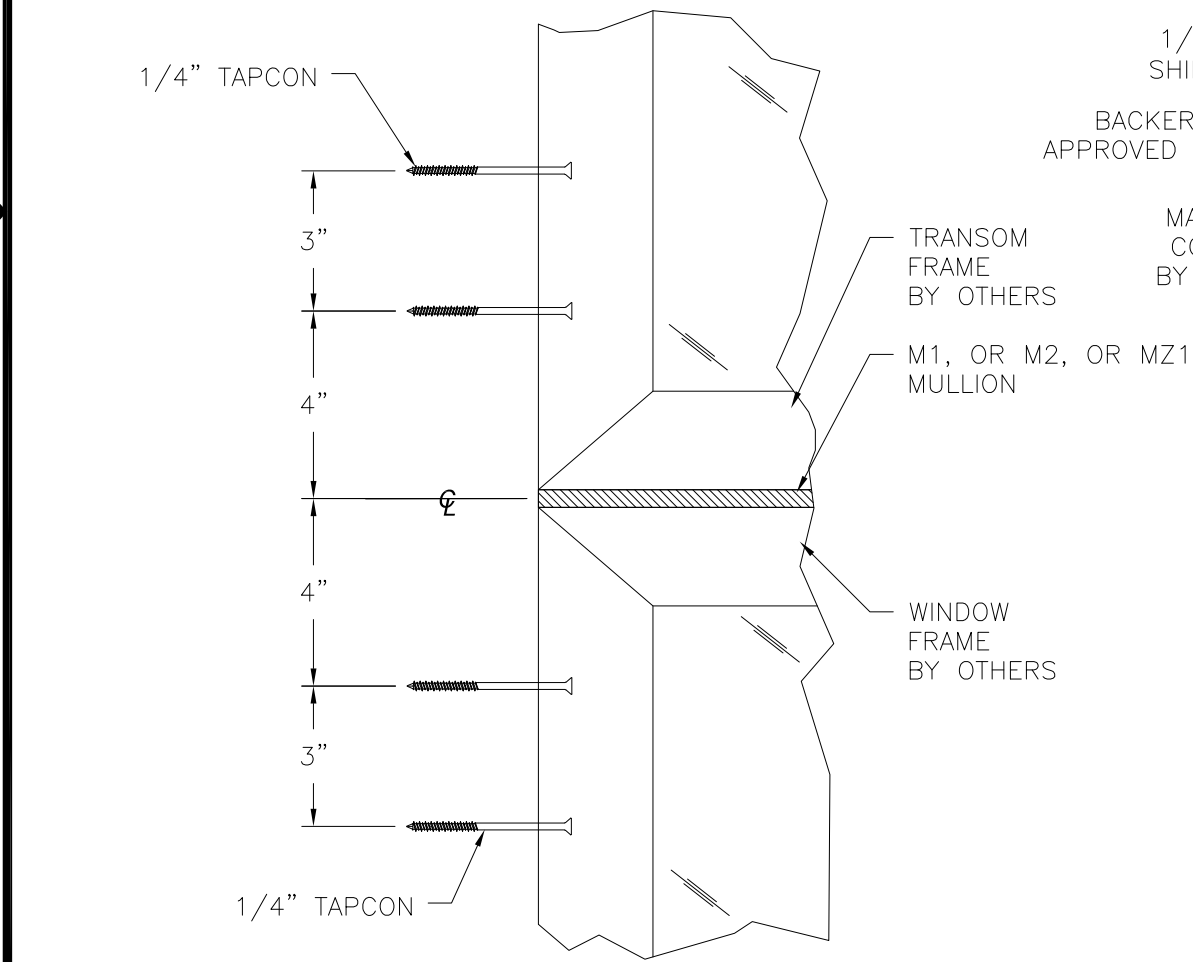
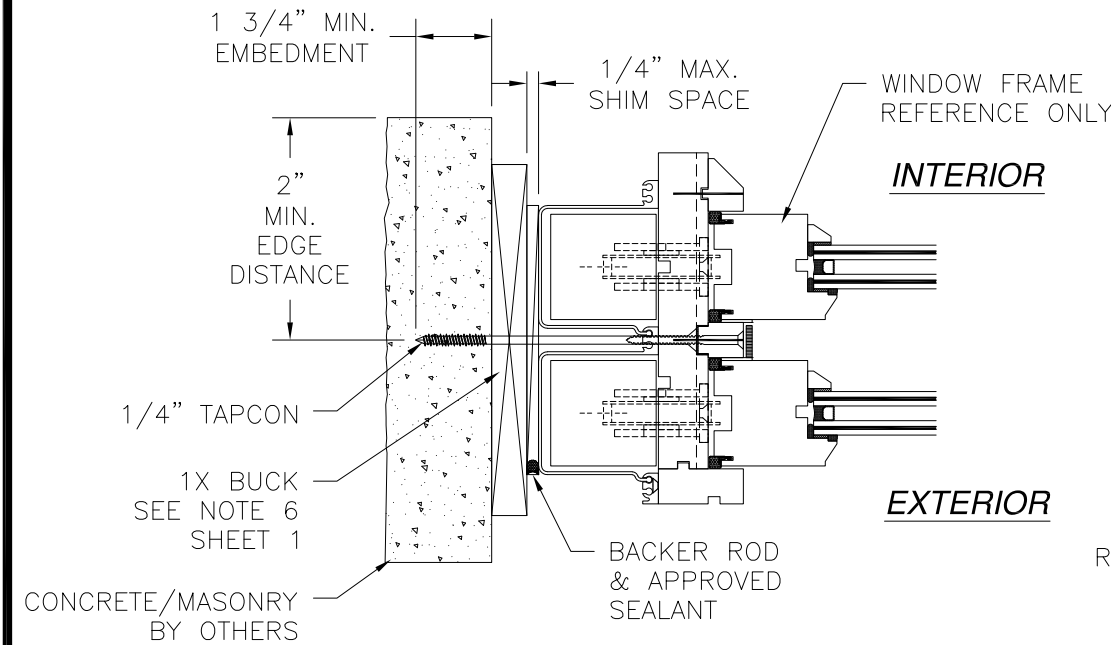
SCALE NTS DATE 07/28/2023 SHEET 9 OF 15

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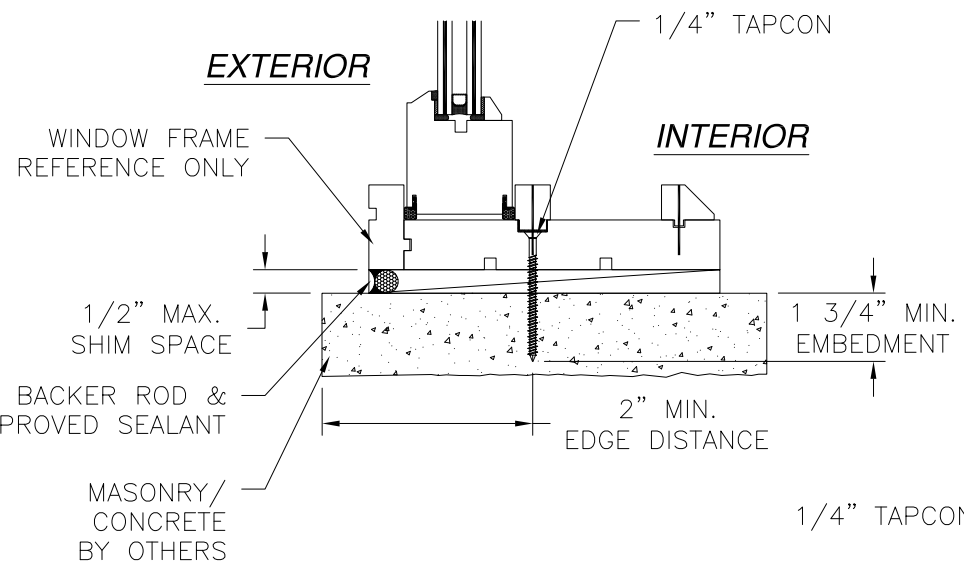


Luis R. Lomas P.E.  
FL No.: 62514

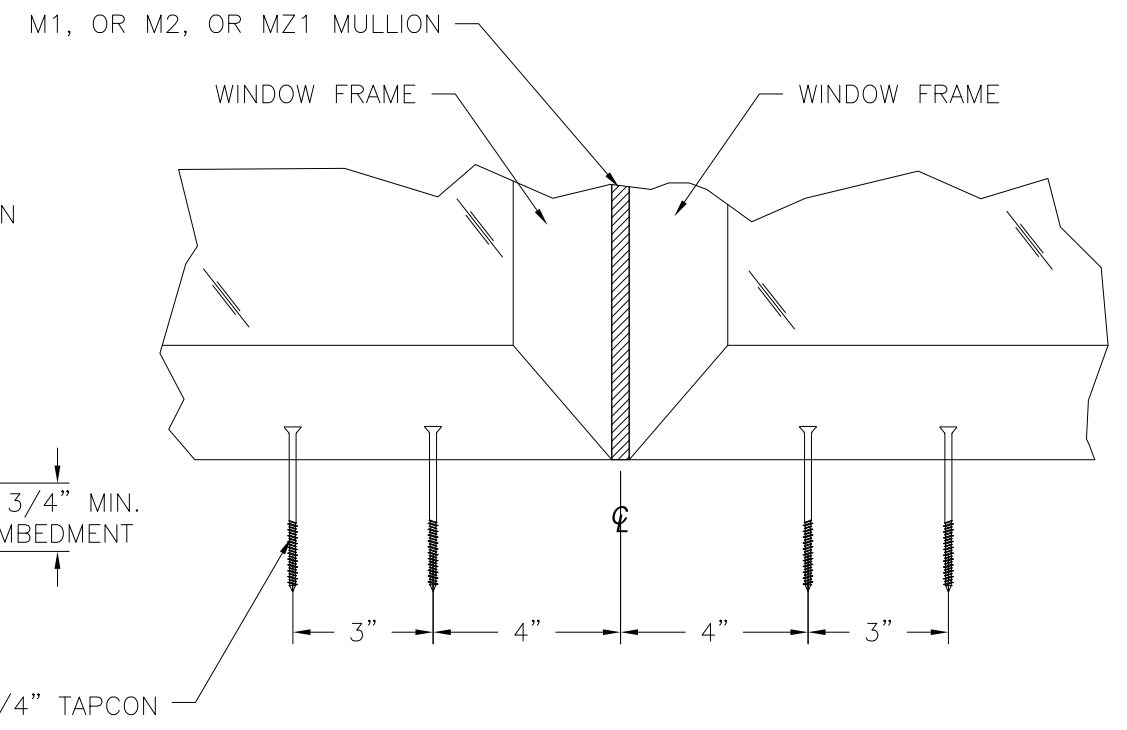
| REVISIONS |                   |            |          |
|-----------|-------------------|------------|----------|
| REV       | DESCRIPTION       | DATE       | APPROVED |
| A         | ADDED MZ1 MULLION | 08/28/2024 | R.L.     |



**M1, OR M2, OR MZ1 HORIZONTAL MULLION DETAIL**  
CONCRETE/MASONRY WITH 1X BUCK INSTALLATION  
FOR CONCRETE/MASONRY INSTALLATION WITHOUT 1X BUCK REFER TO  
VERTICAL MULLION

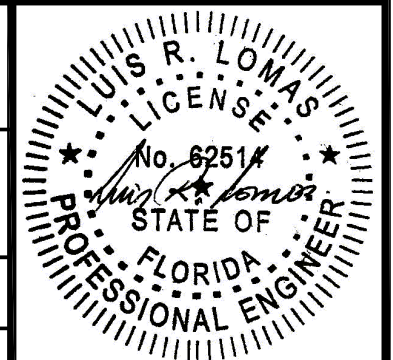


**M1, OR M2, OR MZ1 VERTICAL MULLION DETAIL**  
CONCRETE/MASONRY WITHOUT 1X BUCK INSTALLATION  
FOR CONCRETE/MASONRY INSTALLATION WITH 1X BUCK REFER TO  
HORIZONTAL MULLION



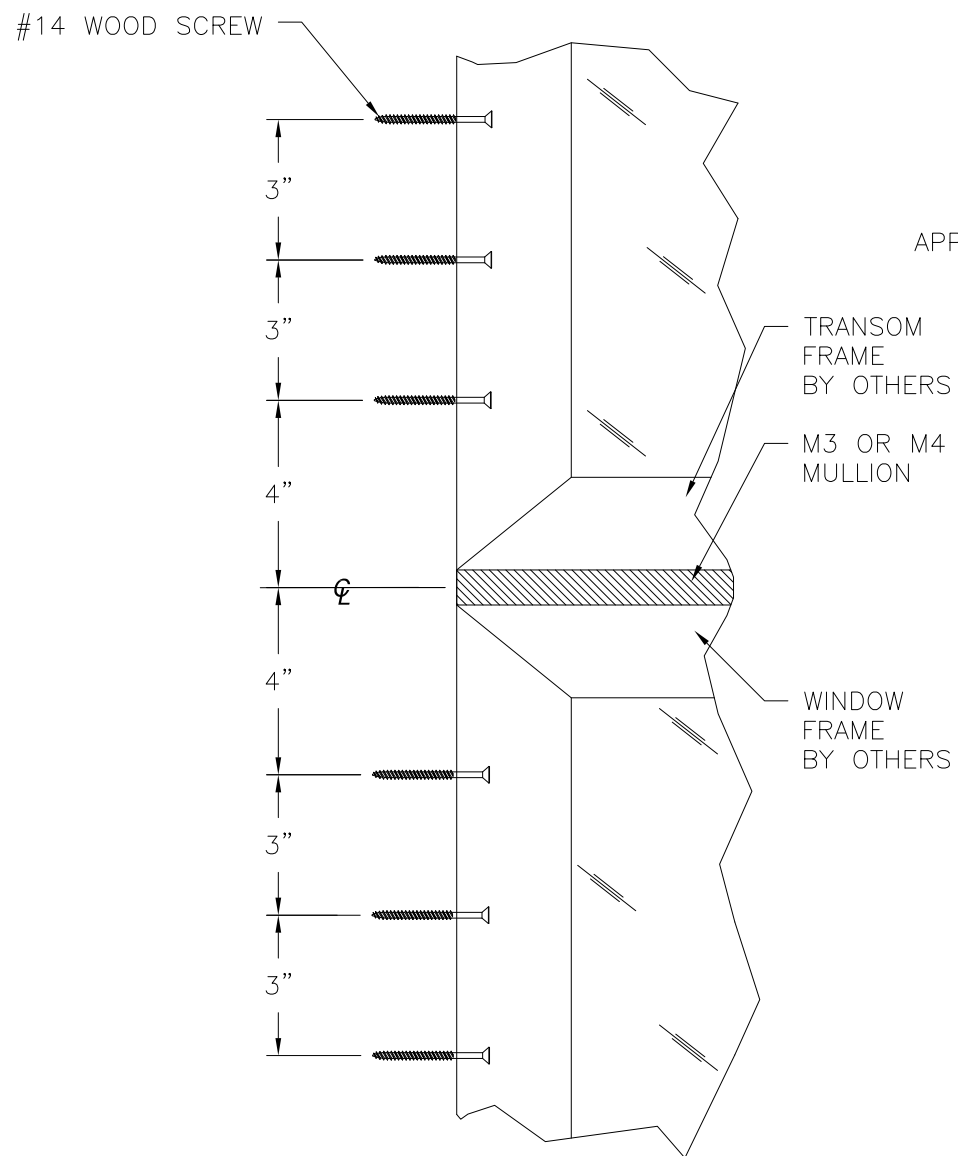
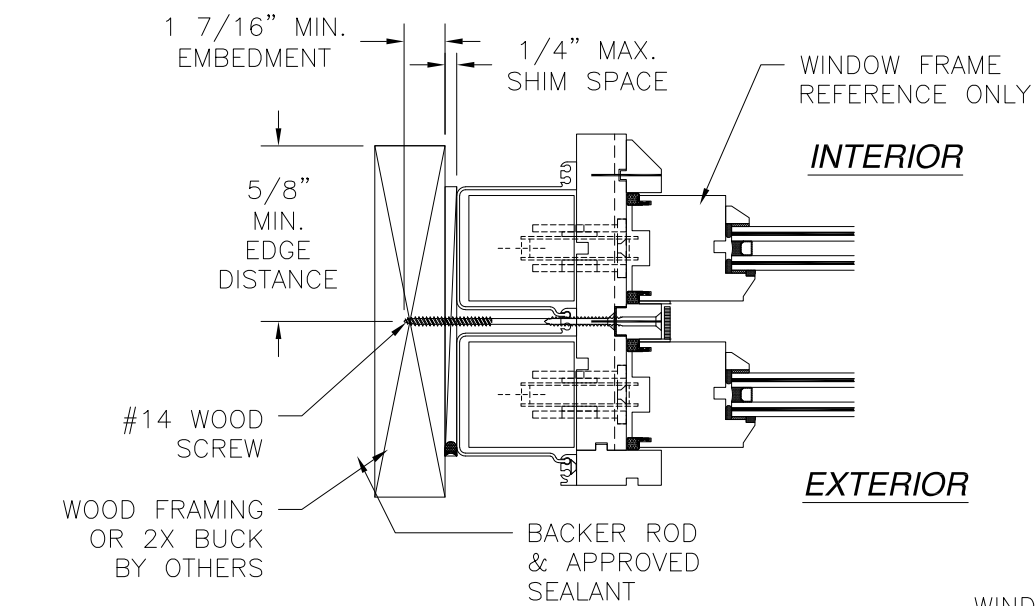
SIGNED: 08/28/2024

|                                                                                                      |                     |                   |
|------------------------------------------------------------------------------------------------------|---------------------|-------------------|
| REILLY WINDOWS & DOORS<br>901 BURMAN BLVD.<br>CALVERTON, NY 11933                                    |                     |                   |
| X-MULLION<br>IMPACT<br>INSTALLATION DETAILS M1 OR M2 OR MZ1 MULLION                                  |                     |                   |
| DRAWN:<br>A.R.                                                                                       | DWG NO.<br>08-03957 | REV<br>A          |
| SCALE<br>NTS                                                                                         | DATE<br>07/28/2023  | SHEET<br>10 OF 15 |
| L. ROBERTO LOMAS P.E.<br>208 7th AVENUE, INDIALANTIC, FL 32903<br>434-688-0609 rllomas@lrlomaspe.com |                     |                   |

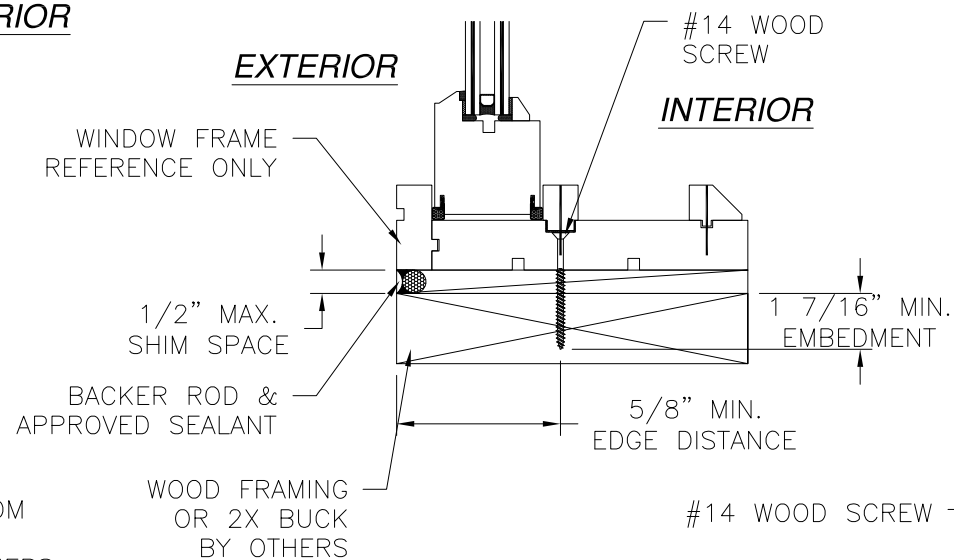


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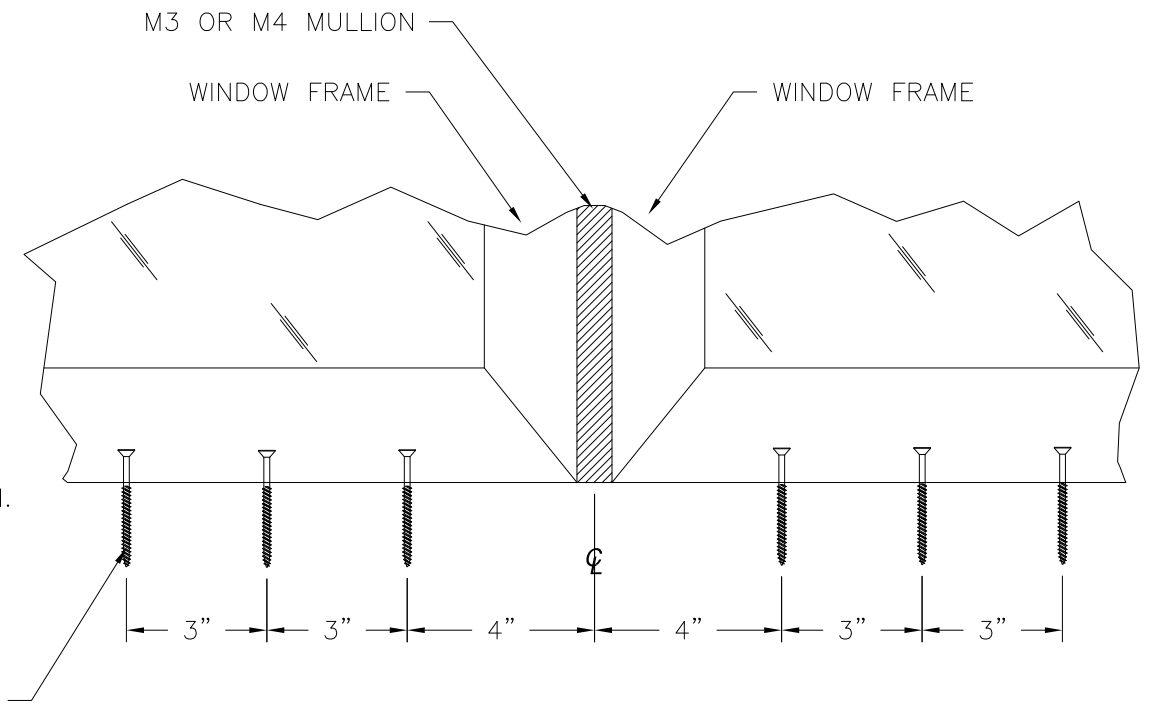
| REVISIONS |                   |            |          |
|-----------|-------------------|------------|----------|
| REV       | DESCRIPTION       | DATE       | APPROVED |
| A         | ADDED MZ1 MULLION | 08/28/2024 | R.L.     |



**M3 OR M4 HORIZONTAL MULLION DETAIL**  
WOOD FRAMING OR 2X BUCK INSTALLATION

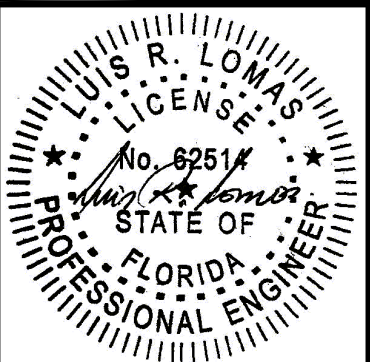


**M3 OR M4 VERTICAL MULLION DETAIL**  
WOOD FRAMING OR 2X BUCK INSTALLATION



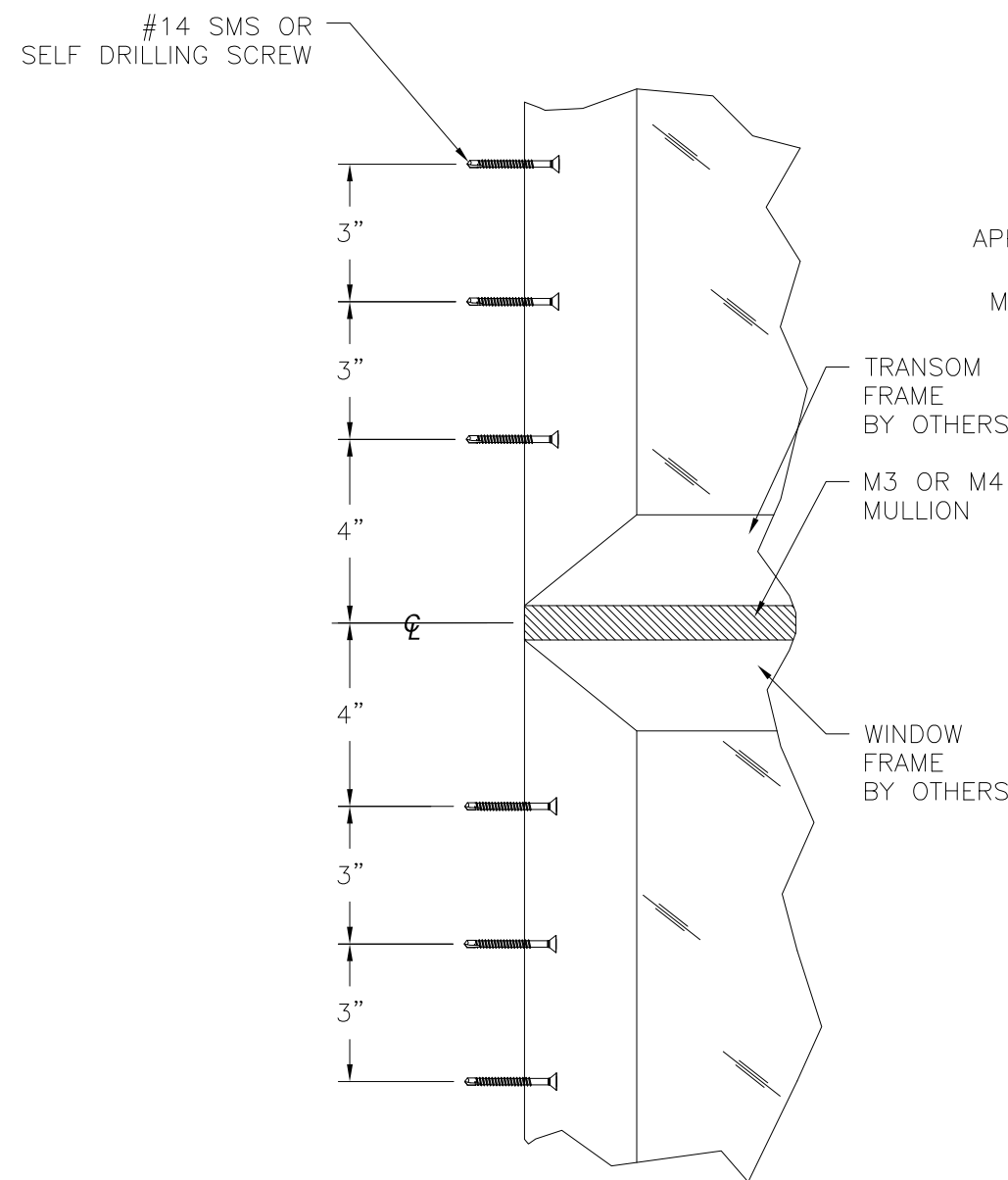
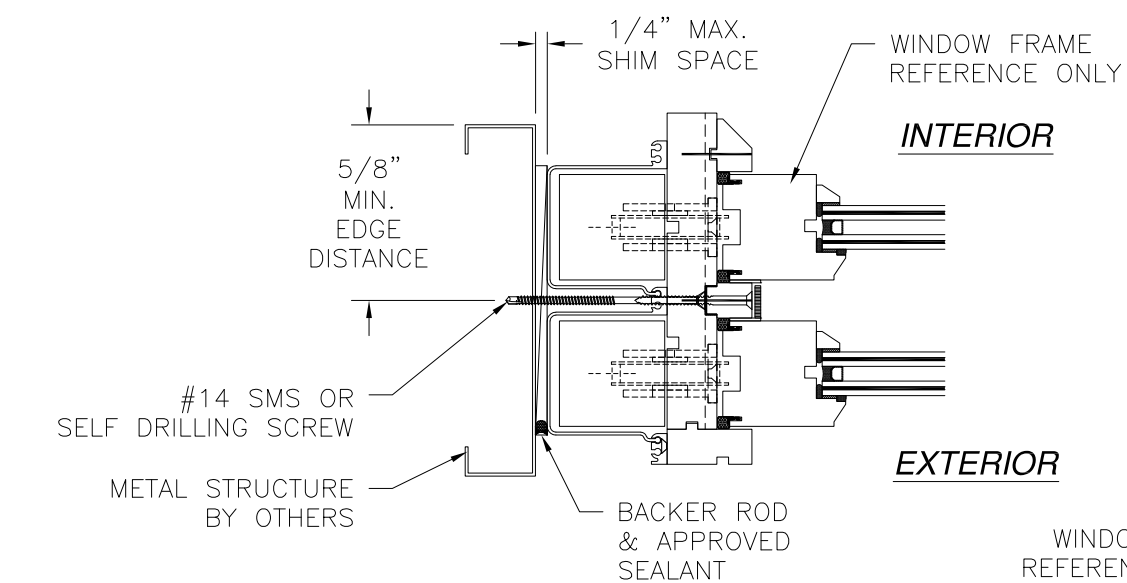
SIGNED: 08/28/2024

|                                                                                                      |                     |                   |
|------------------------------------------------------------------------------------------------------|---------------------|-------------------|
| REILLY WINDOWS & DOORS<br>901 BURMAN BLVD.<br>CALVERTON, NY 11933                                    |                     |                   |
| X-MULLION<br>IMPACT<br>INSTALLATION DETAILS M3 OR M4 MULLION                                         |                     |                   |
| DRAWN:<br>A.R.                                                                                       | DWG NO.<br>08-03957 | REV<br>A          |
| SCALE<br>NTS                                                                                         | DATE<br>07/28/2023  | SHEET<br>11 OF 15 |
| L. ROBERTO LOMAS P.E.<br>208 7th AVENUE, INDIALANTIC, FL 32903<br>434-688-0609 rllomas@lrlomaspe.com |                     |                   |

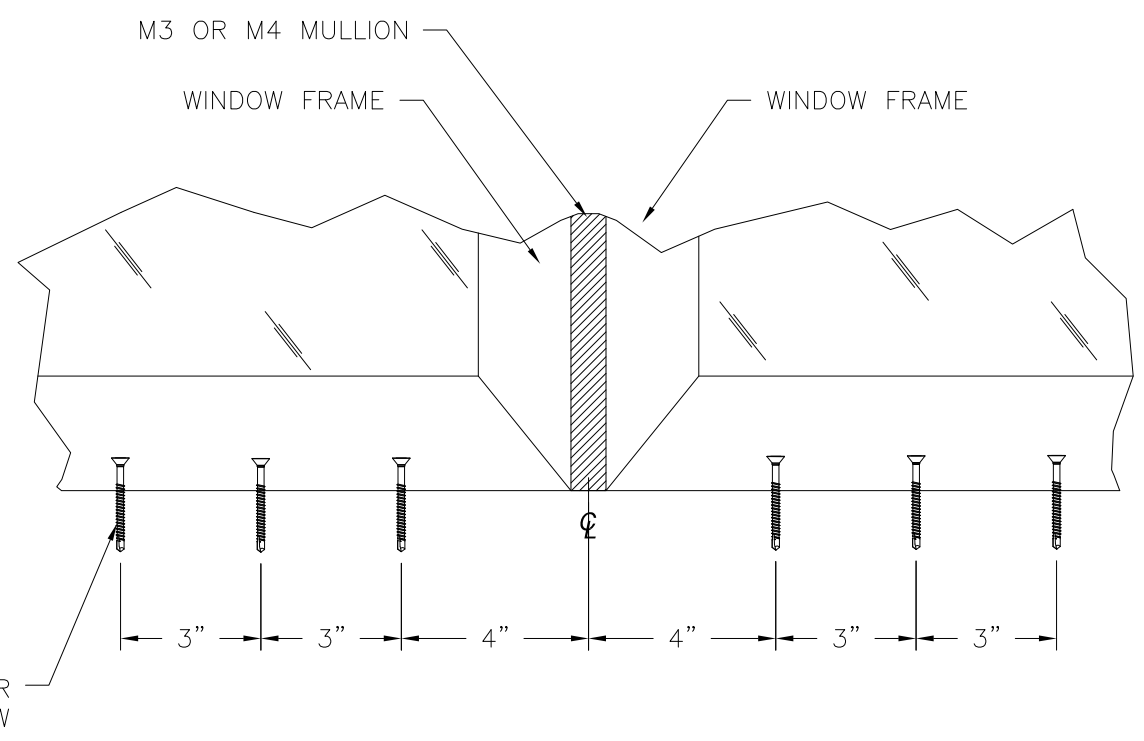
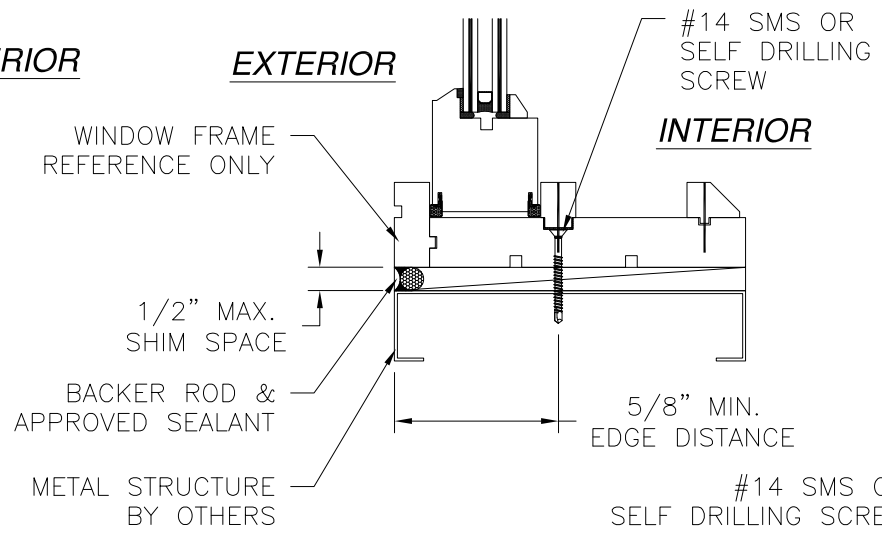


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| REVISIONS |                   |            |          |
|-----------|-------------------|------------|----------|
| REV       | DESCRIPTION       | DATE       | APPROVED |
| A         | ADDED MZ1 MULLION | 08/28/2024 | R.L.     |



**M3 OR M4 HORIZONTAL MULLION DETAIL**  
METAL STRUCTURE INSTALLATION

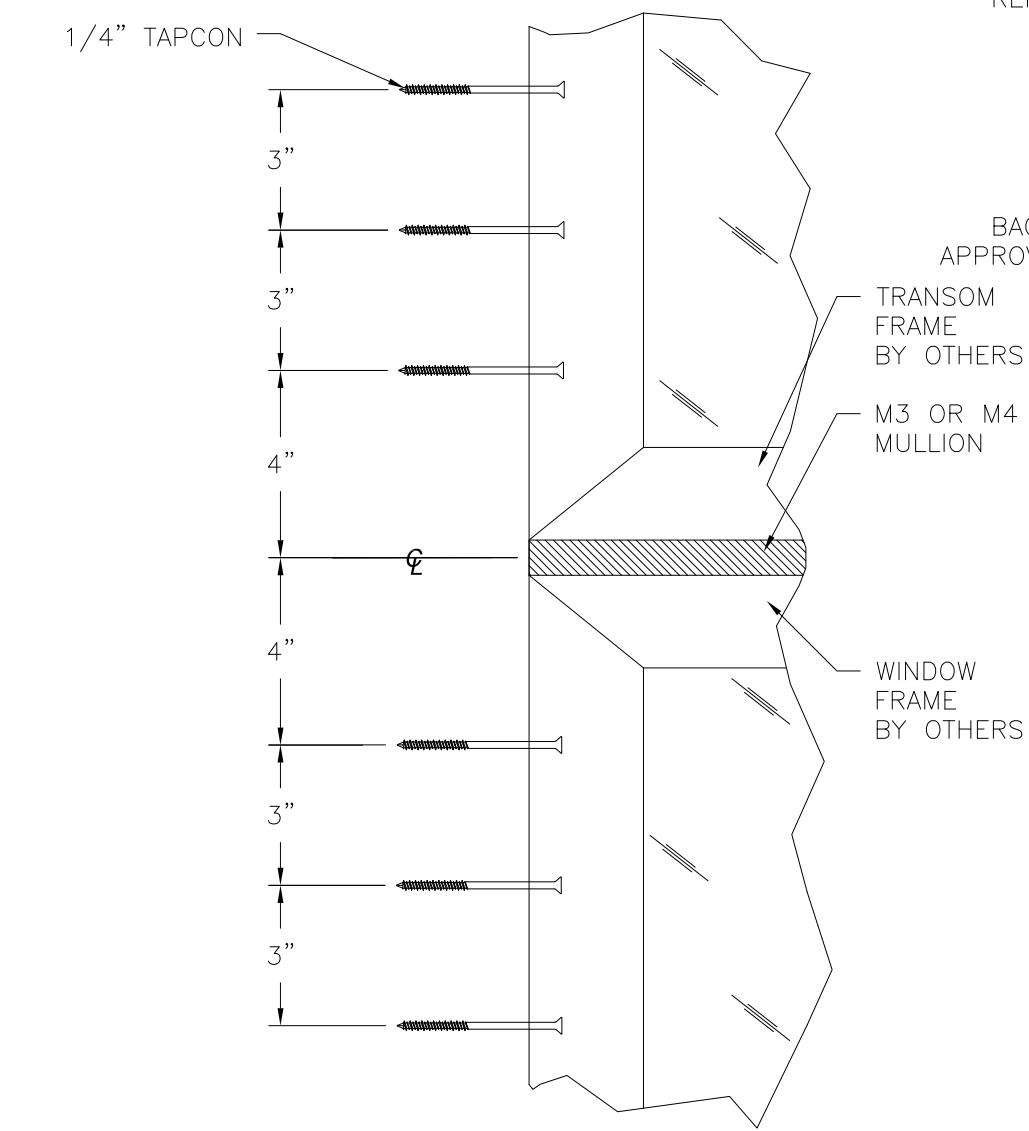
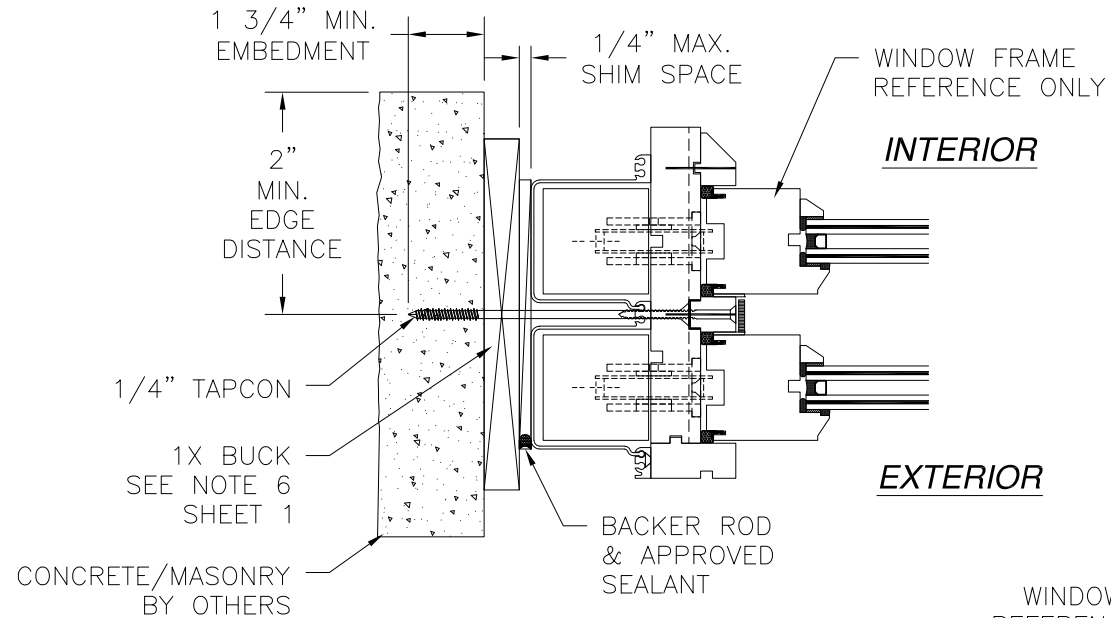


**M3 OR M4 VERTICAL MULLION DETAIL**  
METAL STRUCTURE INSTALLATION

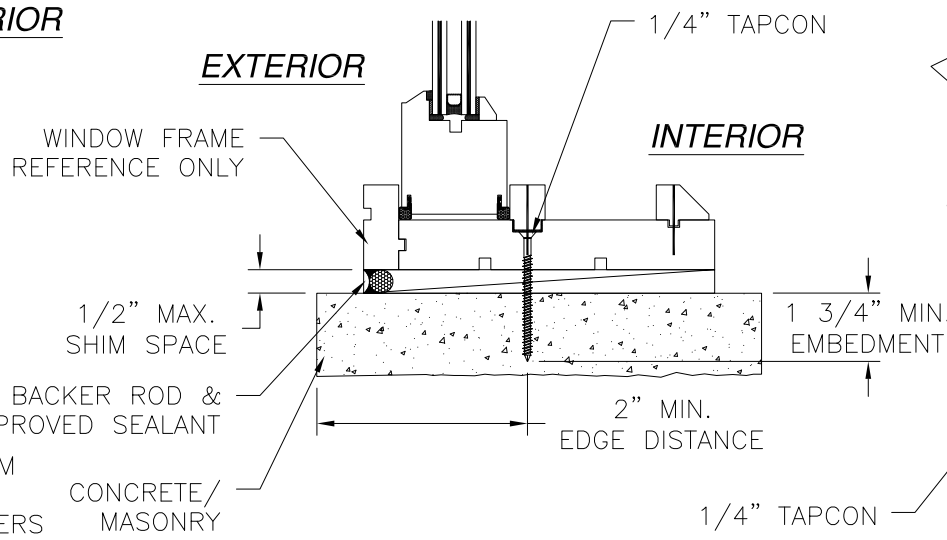
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|                                                                                                      |                     |                   |
|------------------------------------------------------------------------------------------------------|---------------------|-------------------|
| REILLY WINDOWS & DOORS<br>901 BURMAN BLVD.<br>CALVERTON, NY 11933                                    |                     |                   |
| X-MULLION<br>IMPACT<br>INSTALLATION DETAILS M3 OR M4 MULLION                                         |                     |                   |
| DRAWN:<br>A.R.                                                                                       | DWG NO.<br>08-03957 | REV<br>A          |
| SCALE<br>NTS                                                                                         | DATE<br>07/28/2023  | SHEET<br>12 OF 15 |
| L. ROBERTO LOMAS P.E.<br>208 7th AVENUE, INDIALANTIC, FL 32903<br>434-688-0609 rllomas@lrlomaspe.com |                     |                   |

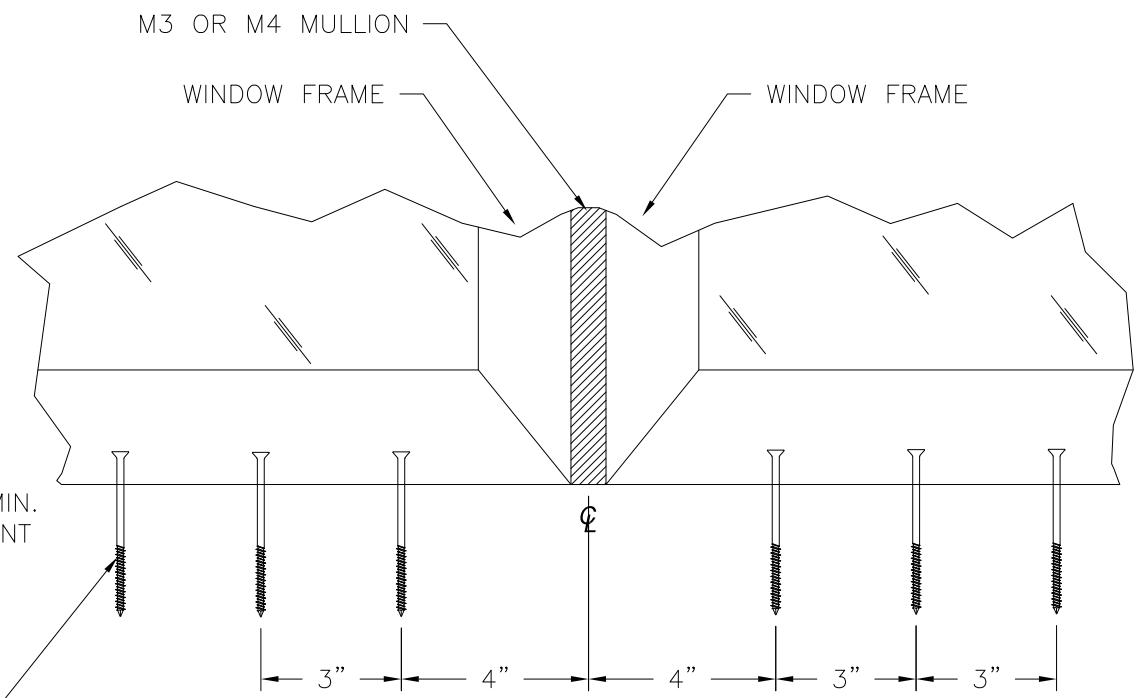
Professional Engineer Seal for Luis R. Lomas, State of Florida, License No. 62514.



**M3 HORIZONTAL MULLION DETAIL**  
CONCRETE/MASONRY WITH 1X BUCK INSTALLATION  
FOR CONCRETE/MASONRY INSTALLATION WITHOUT 1X BUCK REFER TO VERTICAL MULLION



**M3 OR M4 VERTICAL MULLION DETAIL**  
CONCRETE/MASONRY WITHOUT 1X BUCK INSTALLATION  
FOR CONCRETE/MASONRY INSTALLATION WITH 1X BUCK REFER TO HORIZONTAL MULLION



| REVISIONS |                   |            |          |
|-----------|-------------------|------------|----------|
| REV       | DESCRIPTION       | DATE       | APPROVED |
| A         | ADDED MZ1 MULLION | 08/28/2024 | R.L.     |

REILLY WINDOWS & DOORS  
901 BURMAN BLVD.  
CALVERTON, NY 11933

X-MULLION  
IMPACT  
INSTALLATION DETAILS M3 OR M4 MULLION

|                |                     |                   |
|----------------|---------------------|-------------------|
| DRAWN:<br>A.R. | DWG NO.<br>08-03957 | REV<br>A          |
| SCALE<br>NTS   | DATE<br>07/28/2023  | SHEET<br>13 OF 15 |

L. ROBERTO LOMAS P.E.  
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434-688-0609 rllomas@lrlomaspe.com

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LUIS R. LOMAS

LICENS. M.S.

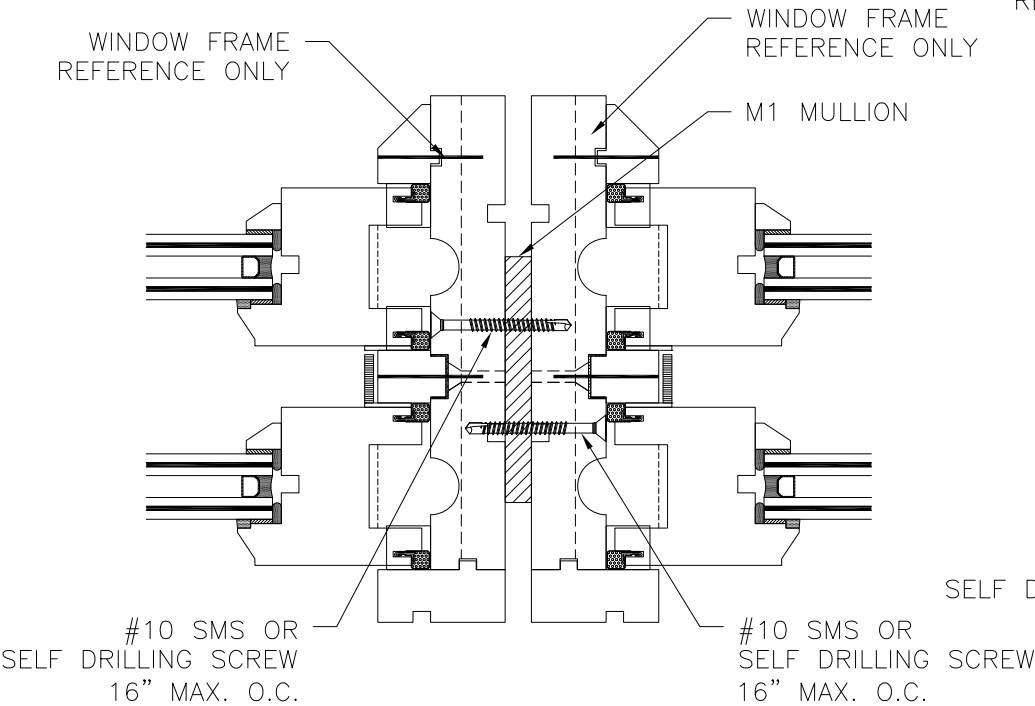
No. 62514

STATE OF FLORIDA

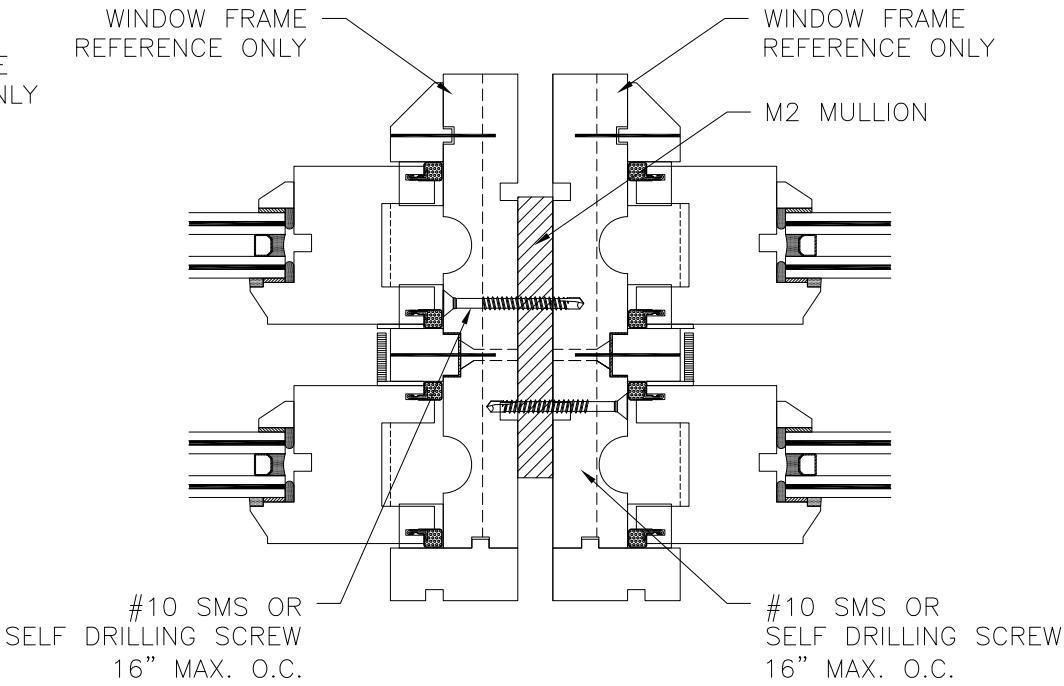
PROFESSIONAL ENGINEER

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

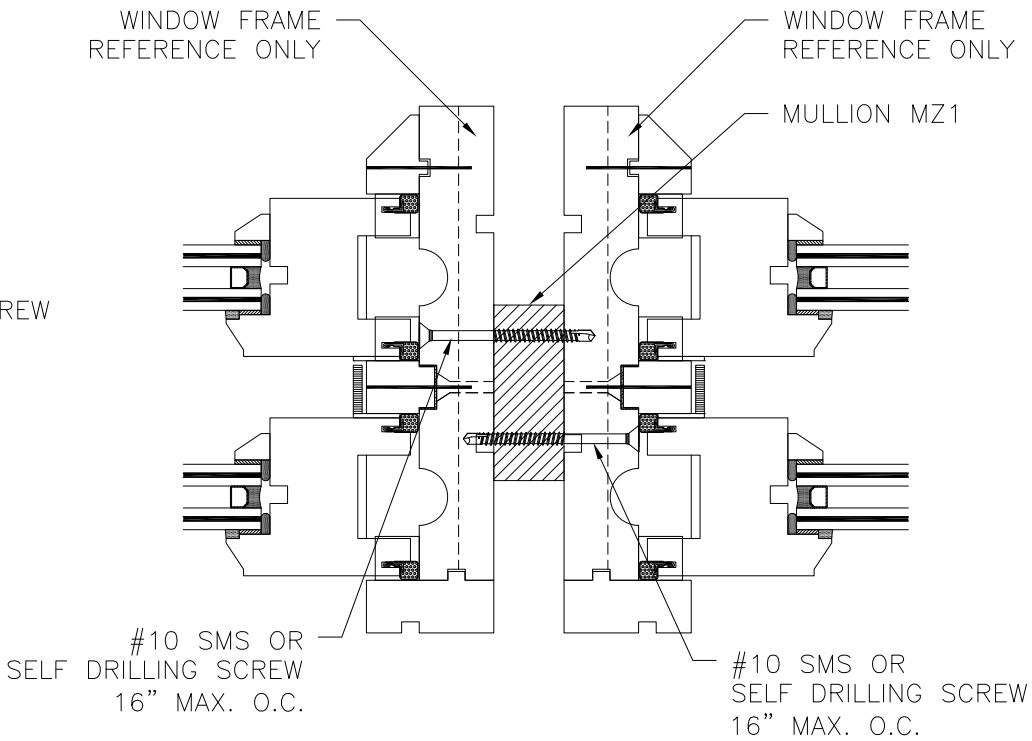
| REVISIONS |                   |            |          |
|-----------|-------------------|------------|----------|
| REV       | DESCRIPTION       | DATE       | APPROVED |
| A         | ADDED MZ1 MULLION | 08/28/2024 | R.L.     |



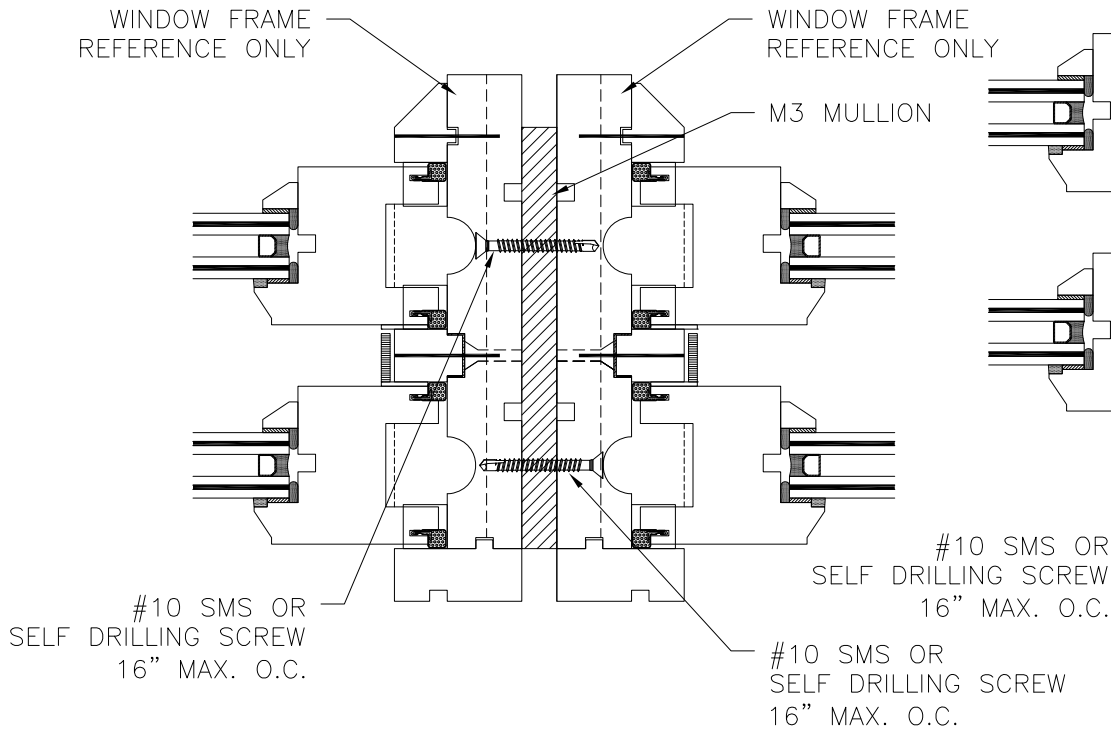
**M1 MULLION TO WINDOW FRAME  
INSTALLATION DETAIL**



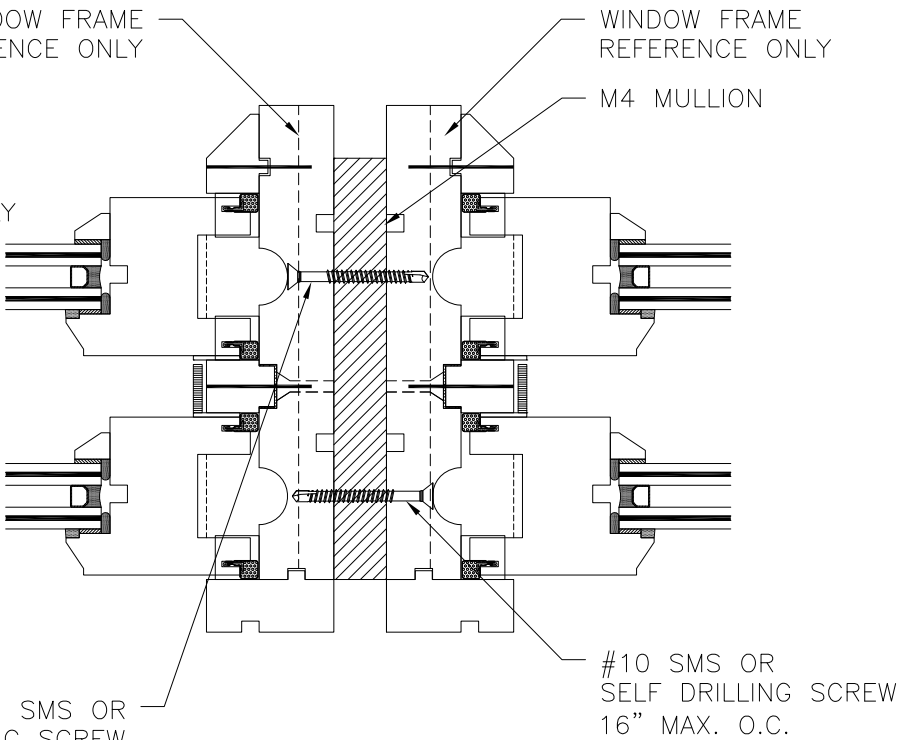
**M2 MULLION TO WINDOW FRAME  
INSTALLATION DETAIL**



**MZ1 MULLION TO WINDOW FRAME  
NSTALLATION DETAIL**



**M3 MULLION TO WINDOW FRAME  
INSTALLATION DETAIL**



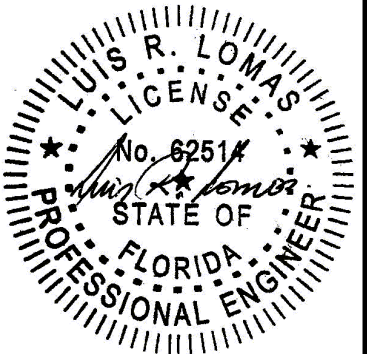
**M4 MULLION TO WINDOW FRAME  
INSTALLATION DETAIL**

REILLY WINDOWS & DOORS  
901 BURMAN BLVD.  
CALVERTON, NY 11933

X-MULLION  
IMPACT  
INSTALLATION DETAILS

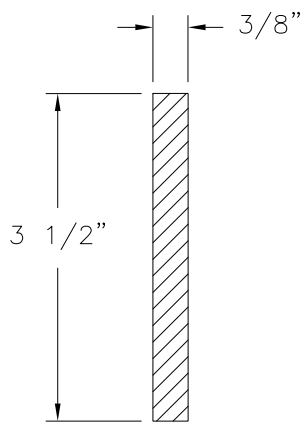
|                                                                                                      |                     |                   |
|------------------------------------------------------------------------------------------------------|---------------------|-------------------|
| DRAWN:<br>A.R.                                                                                       | DWG NO.<br>08-03957 | REV<br>A          |
| SCALE<br>NTS                                                                                         | DATE<br>07/28/2023  | SHEET<br>14 OF 15 |
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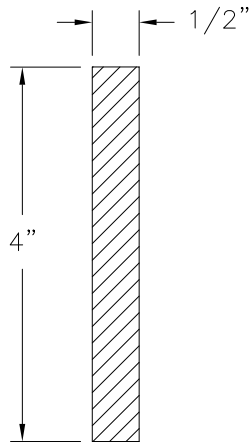


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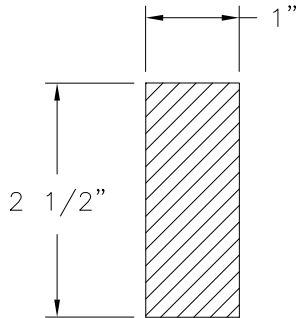
| REVISIONS |                   |            |          |
|-----------|-------------------|------------|----------|
| REV       | DESCRIPTION       | DATE       | APPROVED |
| A         | ADDED MZ1 MULLION | 08/28/2024 | R.L.     |



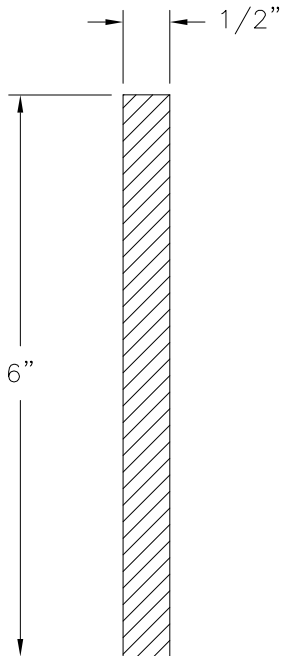
M1 MULLION  
STEEL



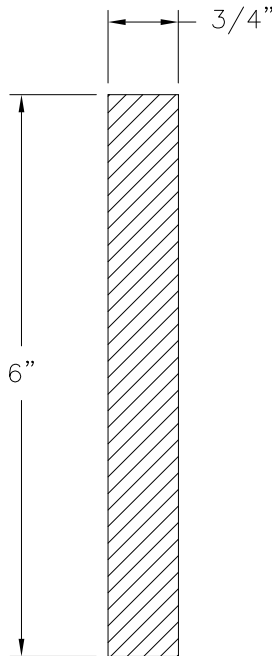
M2 MULLION  
STEEL



MZ1 MULLION  
STEEL



M3 MULLION  
STEEL



M4 MULLION  
STEEL

SIGNED: 08/28/2024

|                                                                                                      |                     |                |
|------------------------------------------------------------------------------------------------------|---------------------|----------------|
| REILLY WINDOWS & DOORS<br>901 BURMAN BLVD.<br>CALVERTON, NY 11933                                    |                     |                |
| X-MULLION<br>IMPACT<br>COMPONENTS                                                                    |                     |                |
| DRAWN:<br>A.R.                                                                                       | DWG NO.<br>08-03957 | REV<br>A       |
| SCALE NTS                                                                                            | DATE 07/28/2023     | SHEET 15 OF 15 |
| L. ROBERTO LOMAS P.E.<br>208 7th AVENUE, INDIALANTIC, FL 32903<br>434-688-0609 rllomas@lrlomaspe.com |                     |                |

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