

THESE WINDOWS ARE RATED FOR SMALL MISSILE IMPACT. HVHZ FPA IMPACT RESISTANT SHUTTERS REQUIRED FOR INSTALLATIONS UP TO 30 FT. OF GRADE. SHUTTERS NOT REQUIRED FOR INSTALLATION ABOVE 30 FT. OF GRADE.

SERIES 155 (S.M.I.)  
ALUMINUM SINGLE HUNG WINDOW WALL SYSTEM

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

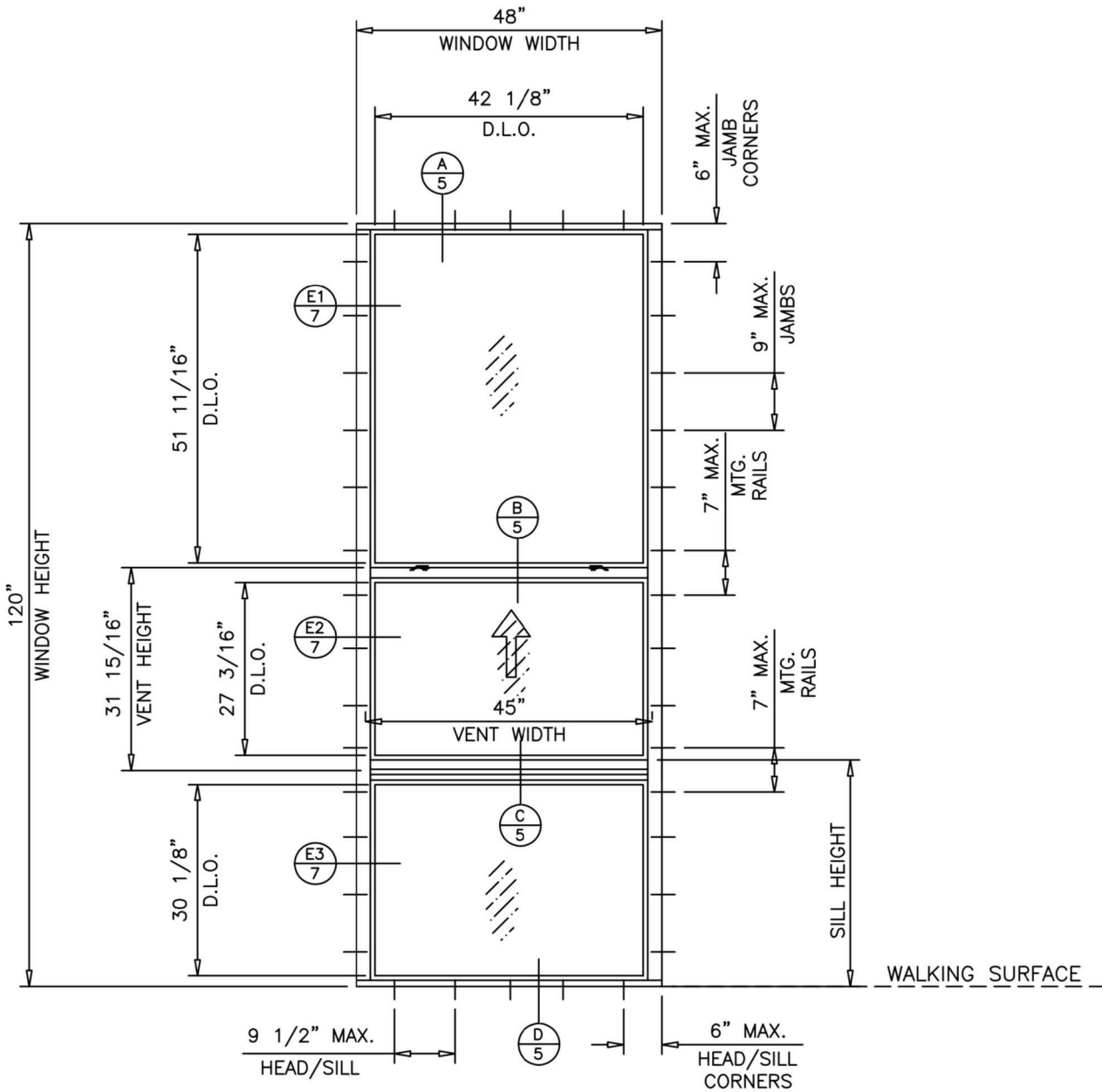
1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT AS LISTED, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF’S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.  
ALL SHIMS TO BE HIGH IMPACT, NON–METALLIC AND NON–COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC. CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL  
DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.



NOTE:  
DECREASE FIXED LITE HEIGHT AS REQD.  
TO ACHIEVE 42–1/2” MAX. VENT HEIGHT.

TYPICAL ELEVATION

PRODUCT COMPLIES WITH REQUIREMENTS OF ANSI Z97.1 WITH MINIMUM SILL HEIGHT OF 36 IN. ABOVE WALKING SURFACE.



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| drawing no. | JA-1844-24 | MA           |
| date:       | 12/31/2024 | drawn by: BS |
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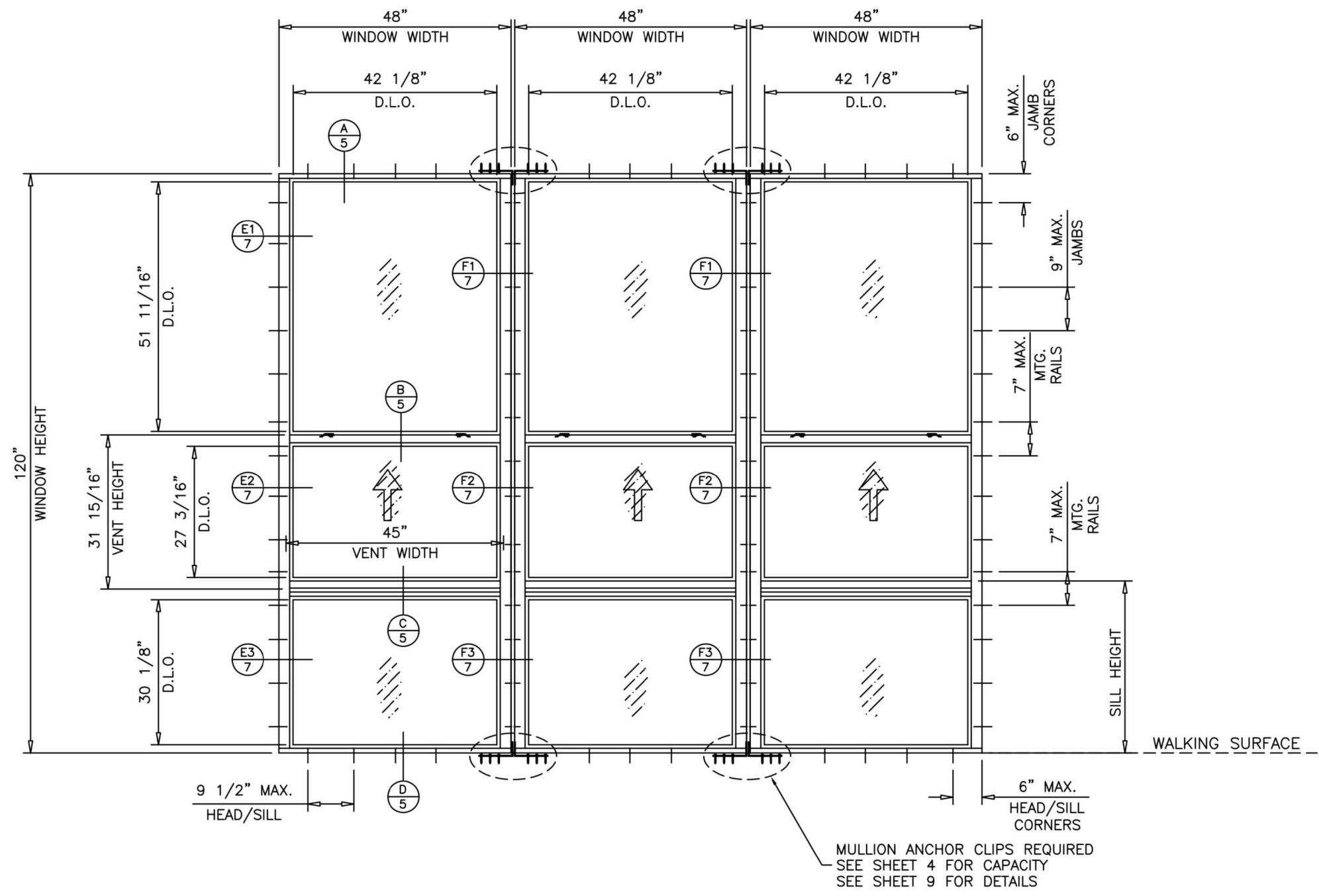
SERIES 155: ECO-GUARD ALUMINUM SINGLE HUNG WINDOW (S.M.I.)  
SMALL MISSILE IMPACT RATED

ECO WINDOW SYSTEMS, LLC.  
8502 N.W. 80th ST. MEDLEY, FL 33166  
TEL. (305) 885-5299 FAX. (305) 885-5902



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FL#40096.8



TYPICAL ELEVATION  
(TESTED UNIT)

NOTE:  
DECREASE FIXED LITE HEIGHT AS REQD.  
TO ACHIEVE 42-1/2\"/>

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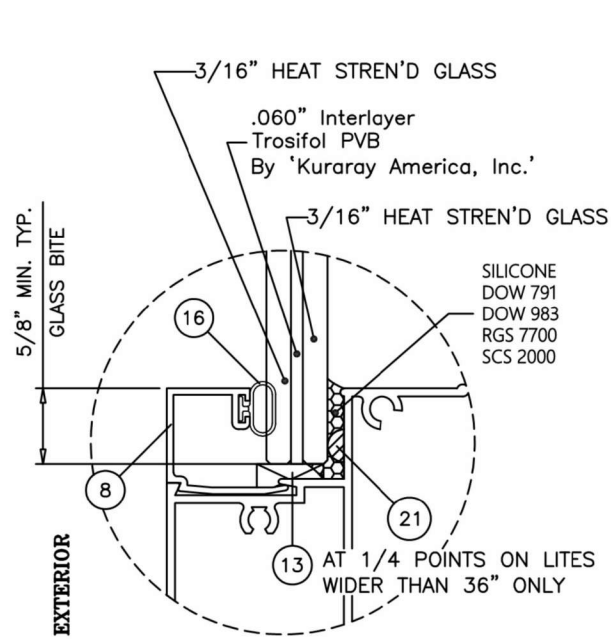
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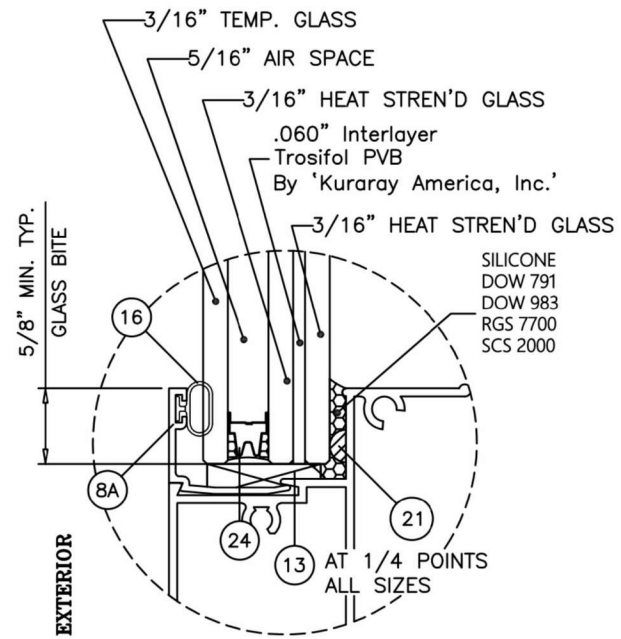


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**GLASS TYPE 'A'**

7/16" OVERALL LAM. GLASS

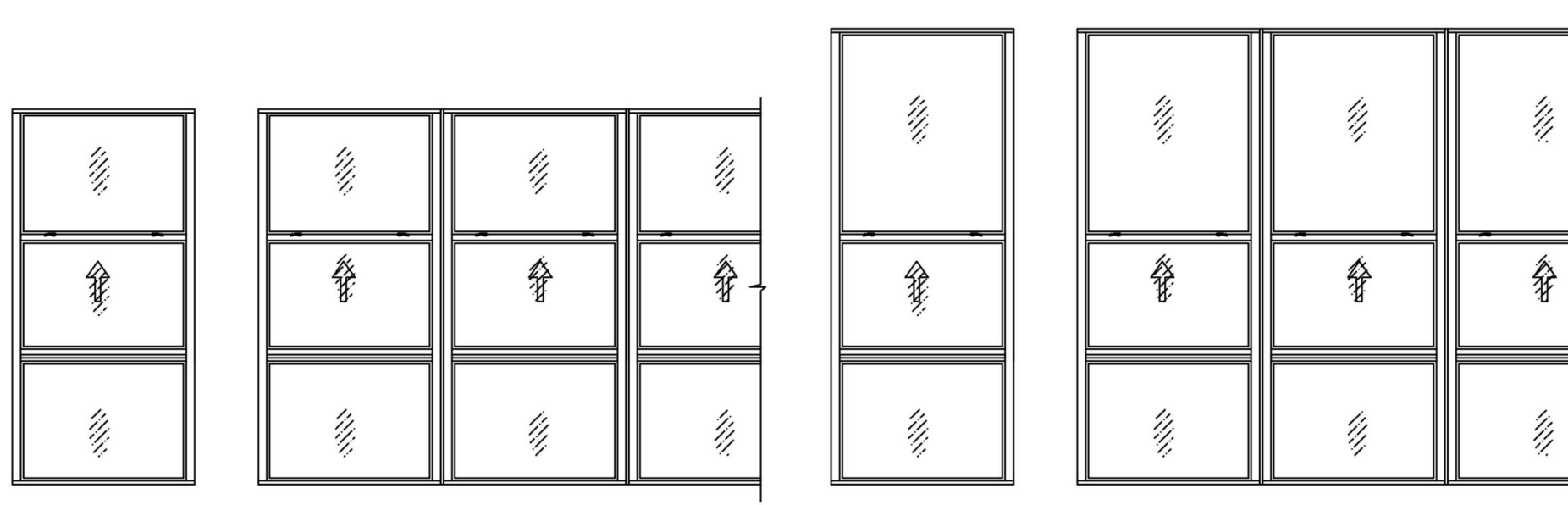


**GLASS TYPE 'B'**

15/16" OVERALL LAM. GLASS

MAXIMUM DESIGN LOAD RATING = + 80.0 PSF  
(GLASS TYPES 'A' & 'B') - 120.0 PSF

NOTE:  
GLASS CAPACITIES ARE BASED ON ASTM  
E1300-16 (3 SEC. GUSTS).



**APPROVED CONFIGURATIONS**

APPROVAL APPLIES TO INDIVIDUAL UNITS OF SINGLE HUNG OVER FIXED WINDOWS.  
ALSO SIDE BY SIDE COMBINATIONS OF S.H./FIX. TO S.H./FIX. IN MODULES OF TWO OR MORE UNITS.



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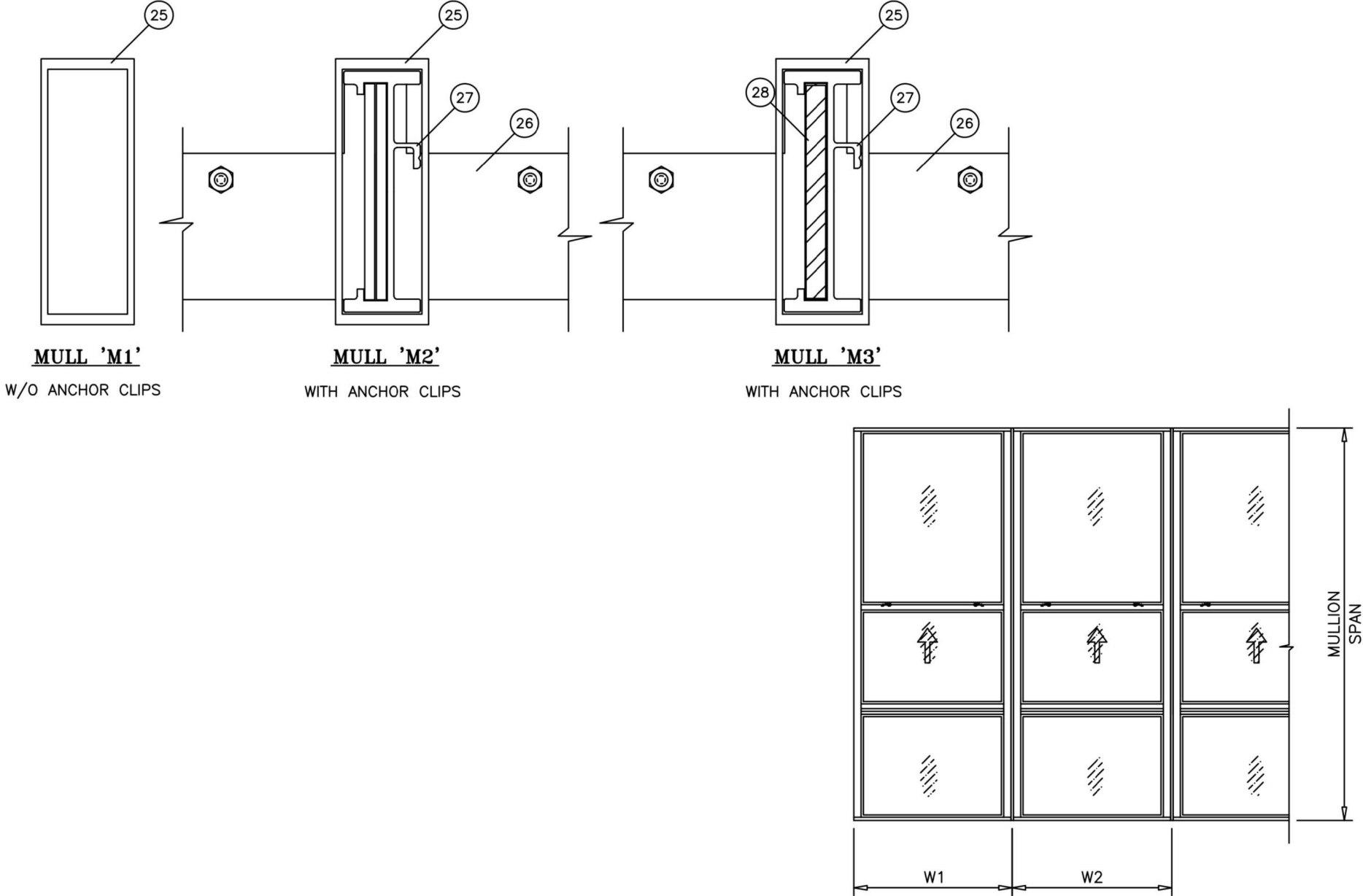
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| Mullion Load Capacity - PSF |           |                   |        |       |        |       |        |       |        |
|-----------------------------|-----------|-------------------|--------|-------|--------|-------|--------|-------|--------|
| Nominal Width (W)           | Mull Type | Nominal Mull Span |        |       |        |       |        |       |        |
|                             |           | 102"              |        | 108"  |        | 114"  |        | 120"  |        |
| 36"                         | M1        | +70.0             | -70.0  | +70.0 | -70.0  | +70.0 | -70.0  | +70.0 | -70.0  |
|                             | M2        | +80.0             | -120.0 | +80.0 | -120.0 | +80.0 | -120.0 | +80.0 | -115.4 |
|                             | M3        | +80.0             | -120.0 | +80.0 | -120.0 | +80.0 | -120.0 | +80.0 | -120.0 |
| 42"                         | M1        | +70.0             | -70.0  | +70.0 | -70.0  | +70.0 | -70.0  | +70.0 | -70.0  |
|                             | M2        | +80.0             | -120.0 | +80.0 | -120.0 | +80.0 | -115.4 | +80.0 | -99.0  |
|                             | M3        | +80.0             | -120.0 | +80.0 | -120.0 | +80.0 | -120.0 | +80.0 | -120.0 |
| 48"                         | M1        | +70.0             | -70.0  | +70.0 | -70.0  | +70.0 | -70.0  | +66.4 | -66.4  |
|                             | M2        | +80.0             | -120.0 | +80.0 | -118.8 | +80.0 | -101.0 | +80.0 | -86.6  |
|                             | M3        | +80.0             | -120.0 | +80.0 | -120.0 | +80.0 | -120.0 | +80.0 | -117.5 |

| Mullion Anchor Clip Load Capacity - PSF |             |                   |        |       |        |       |        |       |        |       |        |
|-----------------------------------------|-------------|-------------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|
| Nominal Width (W)                       | Anchor Type | Nominal Mull Span |        |       |        |       |        |       |        |       |        |
|                                         |             | 96"               |        | 102"  |        | 108"  |        | 114"  |        | 120"  |        |
| 36"                                     | A           | +80.0             | -120.0 | +80.0 | -120.0 | +80.0 | -120.0 | +80.0 | -117.5 | +80.0 | -111.6 |
|                                         | B & C       | +80.0             | -120.0 | +80.0 | -120.0 | +80.0 | -120.0 | +80.0 | -120.0 | +80.0 | -120.0 |
| 42"                                     | A           | +80.0             | -119.6 | +80.0 | -112.5 | +80.0 | -108.3 | +80.0 | -100.7 | +80.0 | -95.7  |
|                                         | B & C       | +80.0             | -120.0 | +80.0 | -120.0 | +80.0 | -120.0 | +80.0 | -120.0 | +80.0 | -120.0 |
| 48"                                     | A           | +80.0             | -104.6 | +80.0 | -98.5  | +80.0 | -93.0  | +80.0 | -88.1  | +80.0 | -83.7  |
|                                         | B & C       | +80.0             | -120.0 | +80.0 | -120.0 | +80.0 | -120.0 | +80.0 | -120.0 | +80.0 | -120.0 |

FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR MULL SPAN DIMENSION SHOWN ON THE TABLE.



EQUAL LITES  
UNEQUAL LITES (ORIEL)  
SINGLE HUNG OVER  
FIXED WINDOWS

WIDTH (W) =  $\frac{W1 + W2}{2}$

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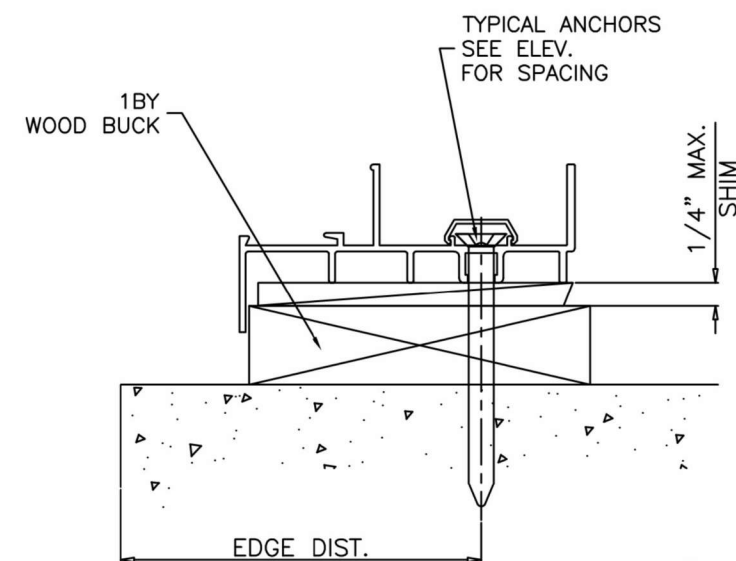
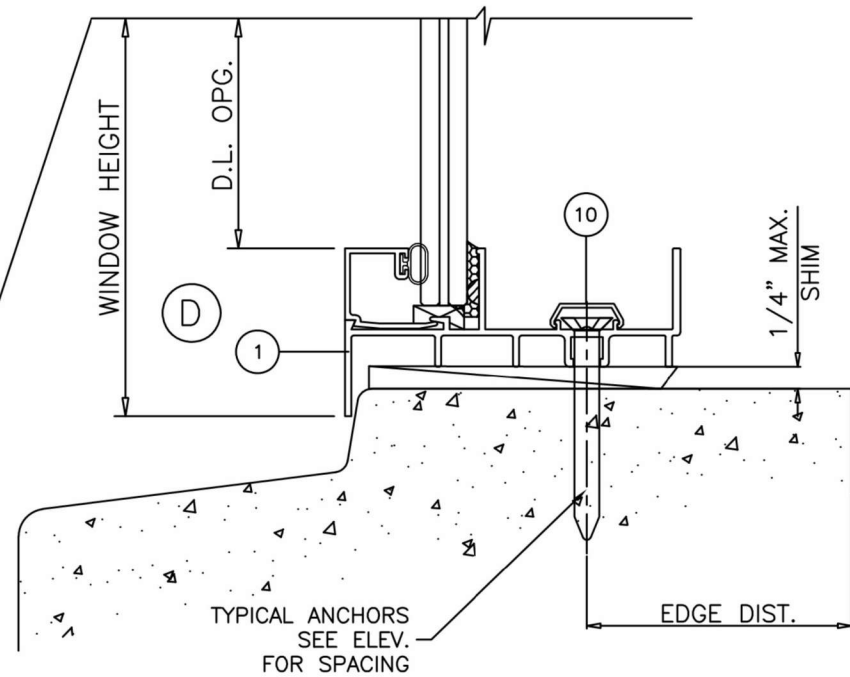
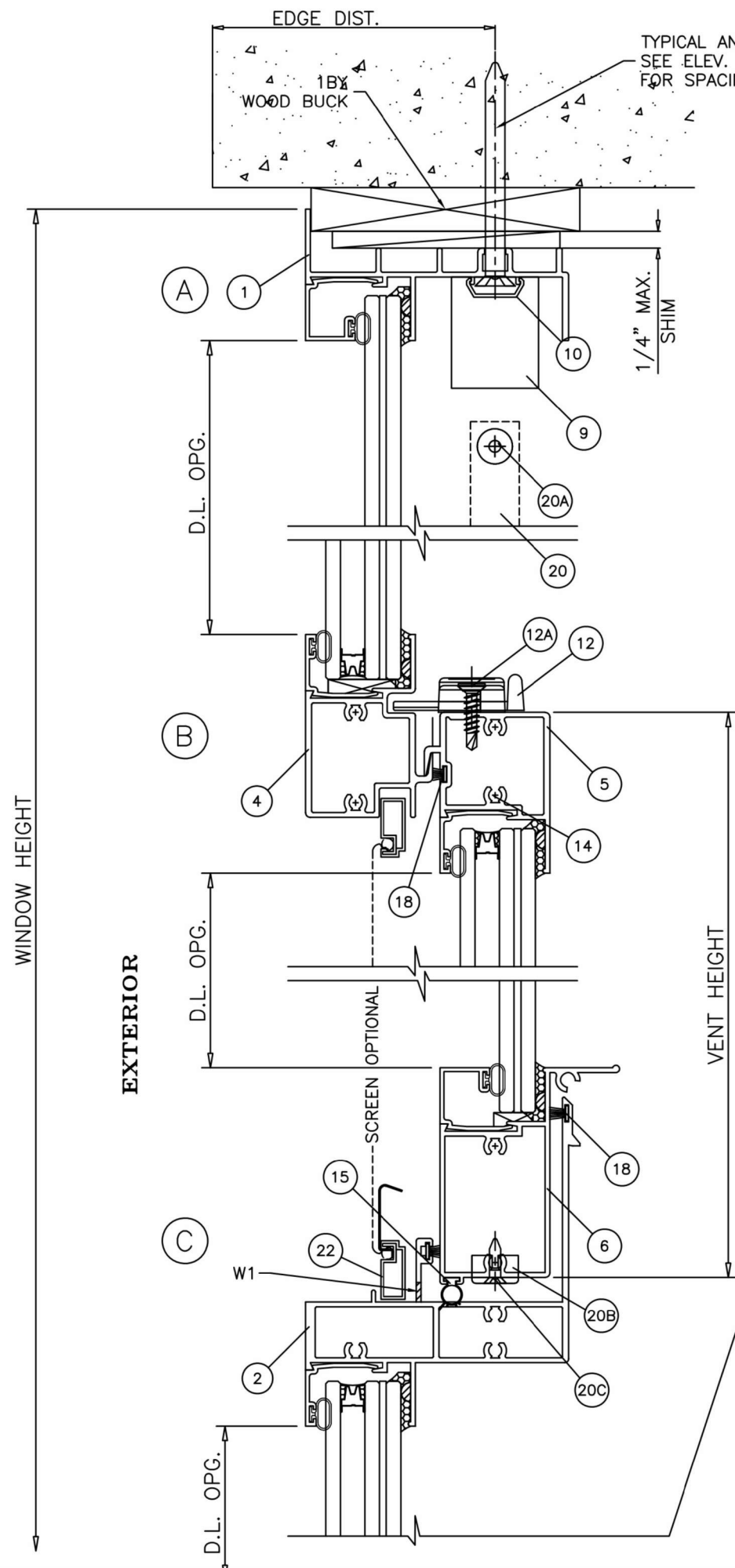
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# WEEPHOLES:

W1 = 1/4" X 3/4" WEEPHOLES AT 12-1/2" FROM EACH END

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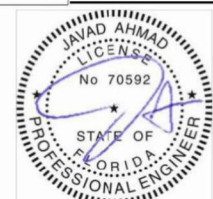
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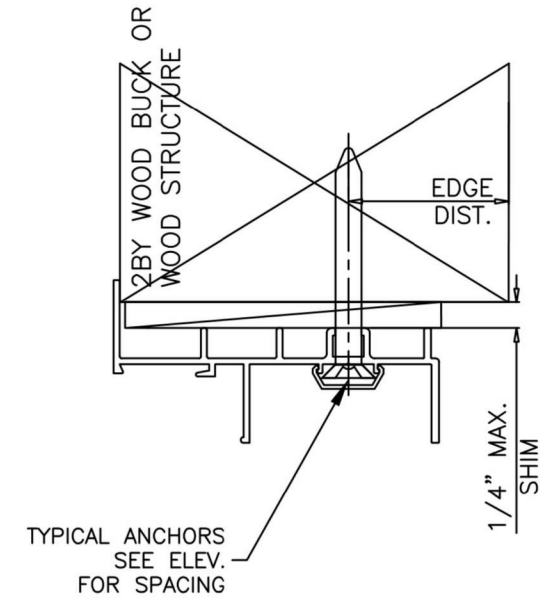
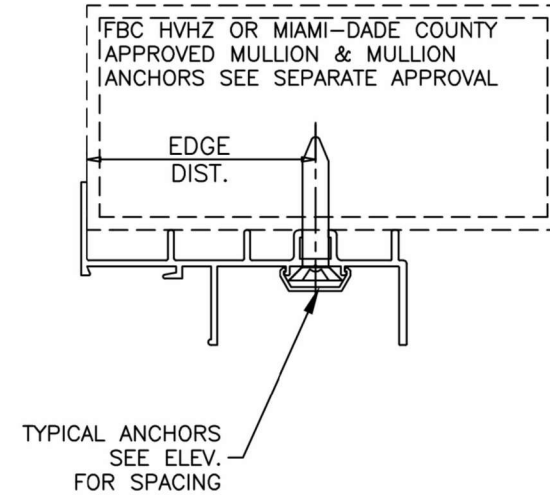
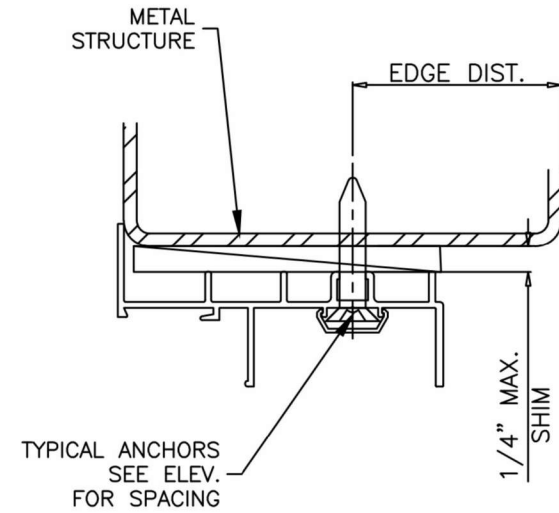
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WOOD BUCKS AND METAL STRUCTURE NOT BY 'ECO WDW.' MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

**TYPICAL ANCHORS:** SEE ELEV. FOR SPACING

| Anchor Group | Anchor Type                               | Frame Member | Substrate                                                        | Min. Edge Distance | Min. Embedment or Metal Thickness       |
|--------------|-------------------------------------------|--------------|------------------------------------------------------------------|--------------------|-----------------------------------------|
| A            | 1/4" DeWalt UltraCon+                     | Head/Jambs   | Southern Pine (SG = 0.55)                                        | 1"                 | 1-1/2"                                  |
|              |                                           | Head/Jambs   | Thru 1BY Buck into Concrete (min. 3 ksi)                         | 2-1/2"             | 1-1/4"                                  |
|              |                                           | Jambs        | Thru 1BY Buck into Hollow or Filled Block (ASTM C90, min. 2 ksi) | 2-1/2"             | 1-1/4"                                  |
|              |                                           | Head/Jambs   | Concrete (min. 3 ksi)                                            | 2-1/2"             | 1-1/4"                                  |
|              |                                           | Jambs        | Hollow or Filled Block (ASTM C90, min. 2 ksi)                    | 2-1/2"             | 1-1/4"                                  |
| B            | 1/4" DeWalt UltraCon+                     | Head/Sill    | Concrete (min. 3 ksi)                                            | 2-1/2"             | 1-1/4"                                  |
| C            | 1/4" Teks or Self Drilling Screws (Gr, 5) | All          | Approved Mullions                                                | 3/4"               | (3) Threads min. beyond metal thickness |
|              |                                           | Head/Jambs   | Aluminum 1/8" Thk. Min. (6063-T5)                                | 3/4"               | (3) Threads min. beyond metal thickness |
|              |                                           | Head/Jambs   | Steel 1/8" Thk. Min. (min. 36 ksi)                               | 3/4"               | (3) Threads min. beyond metal thickness |

1. STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED
2. ALL ANCHOR HEAD TYPES ARE ACCEPTABLE



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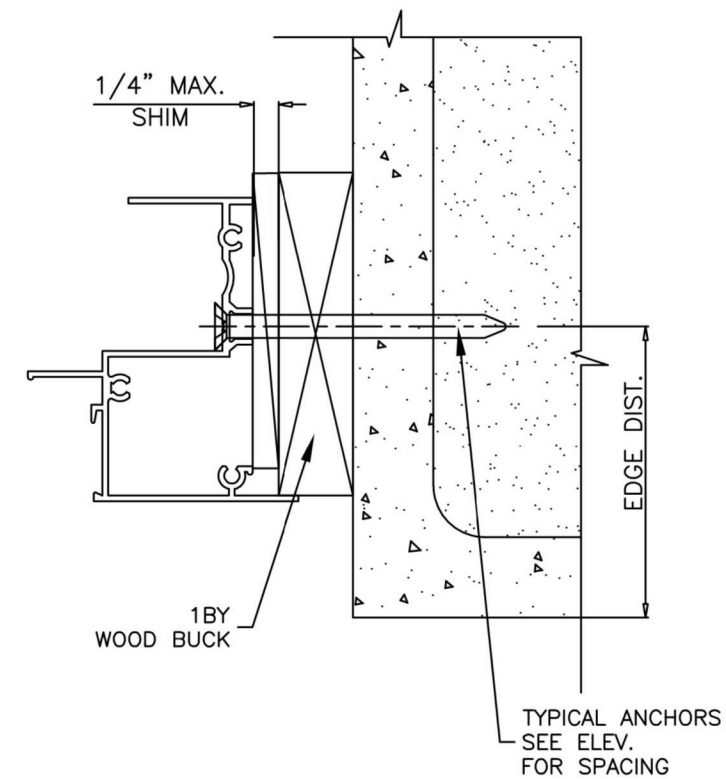
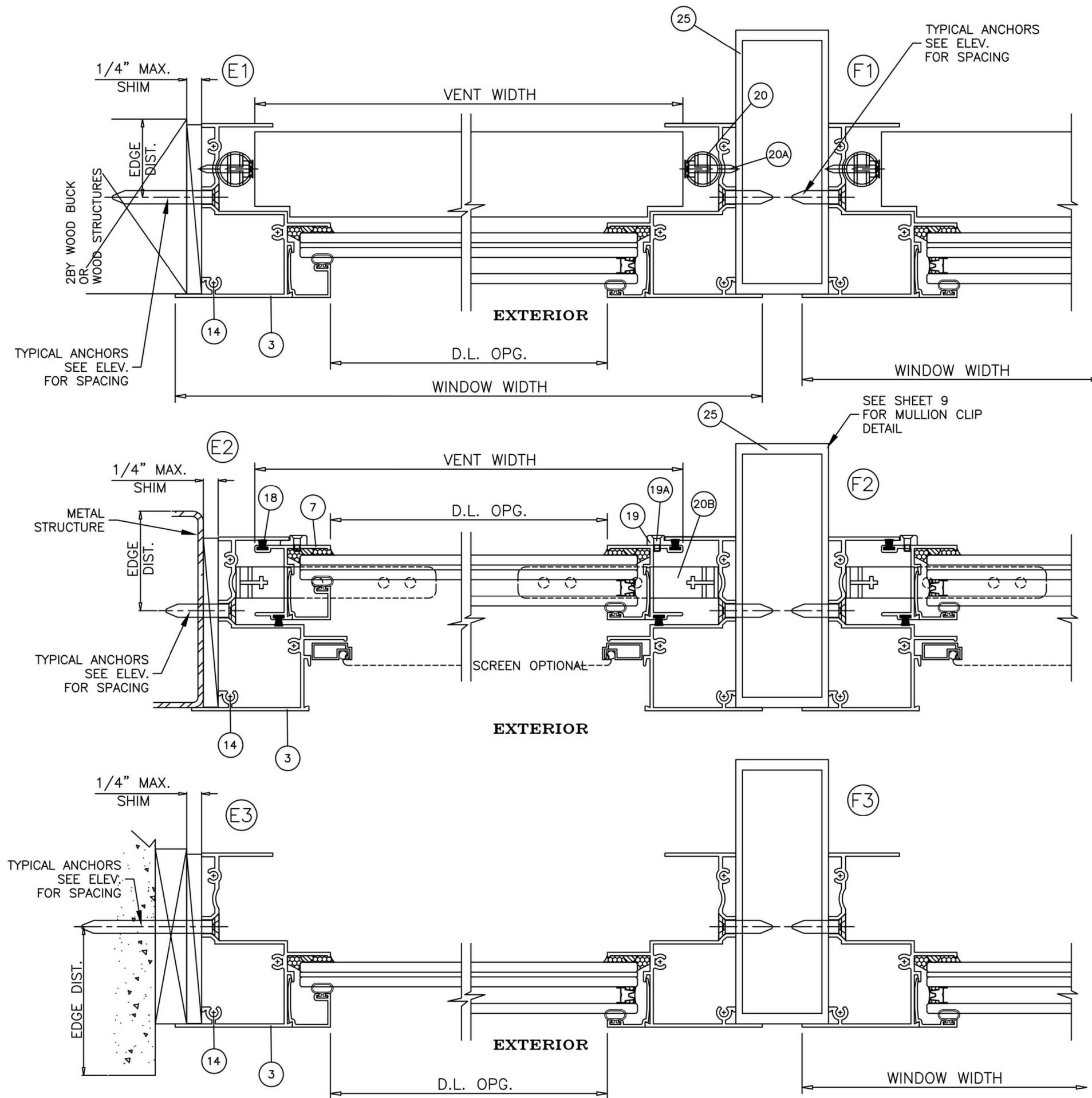


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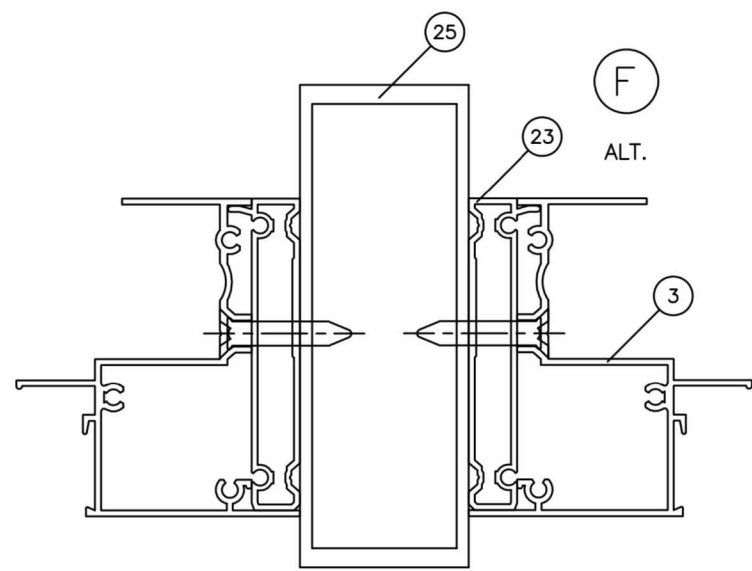
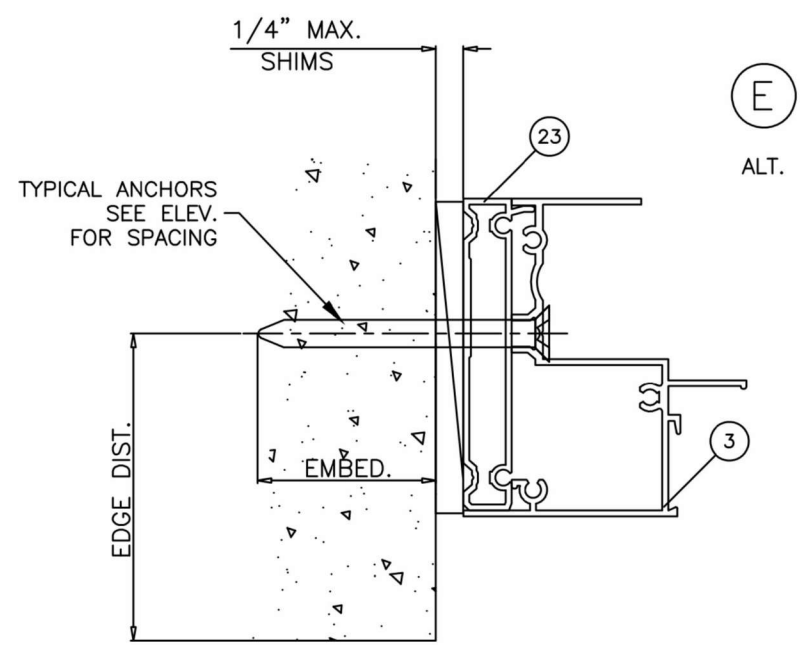
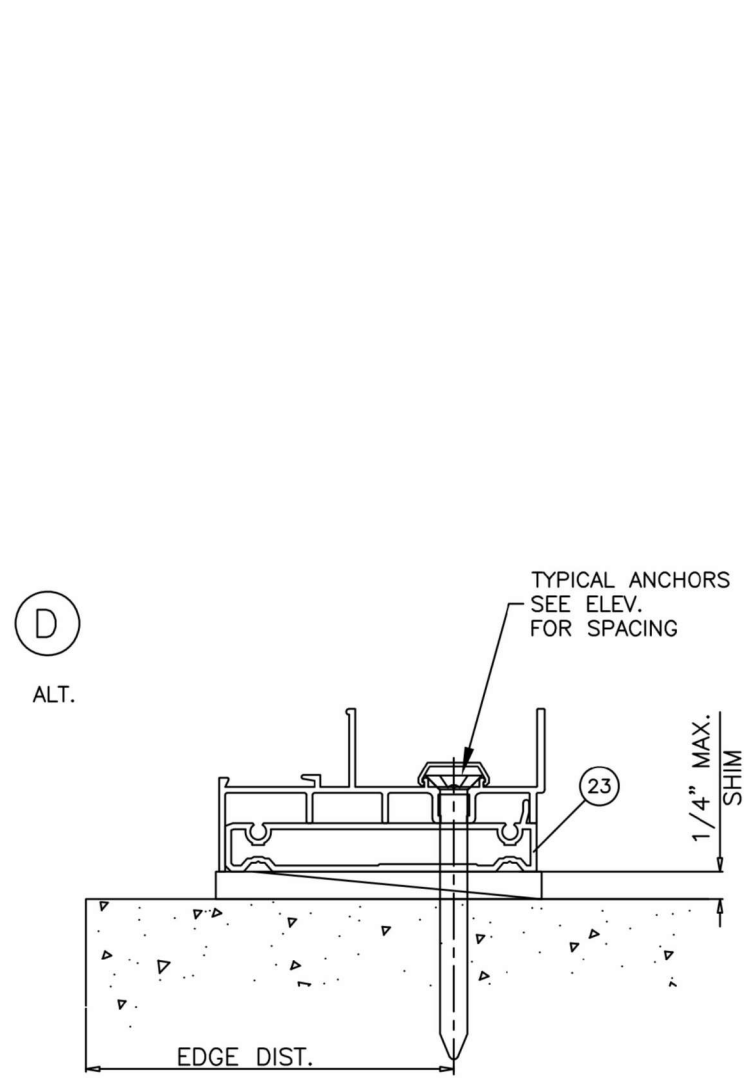
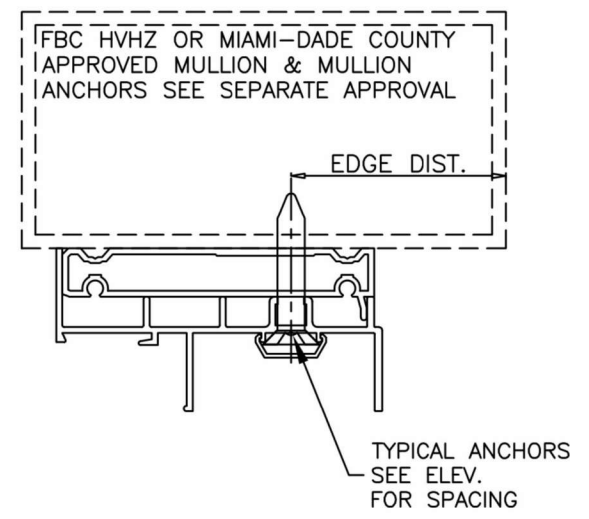
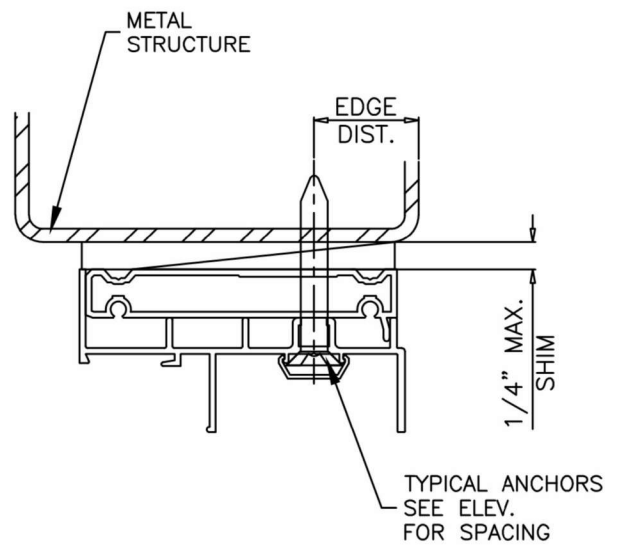
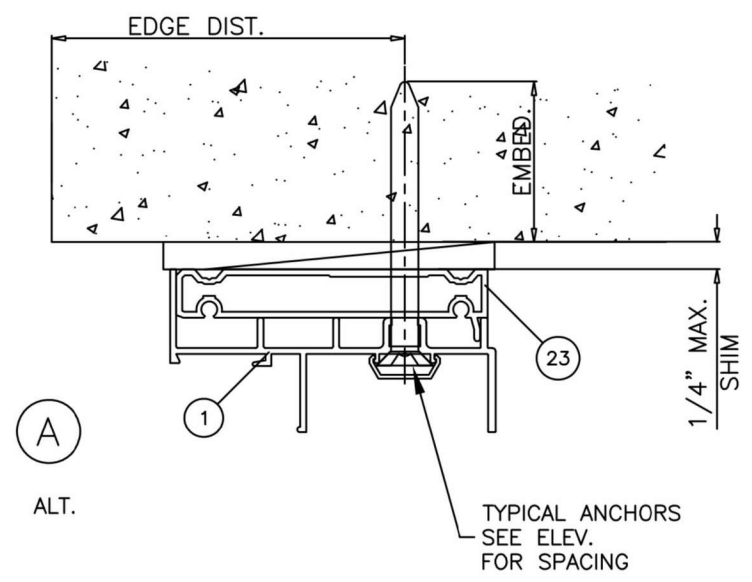
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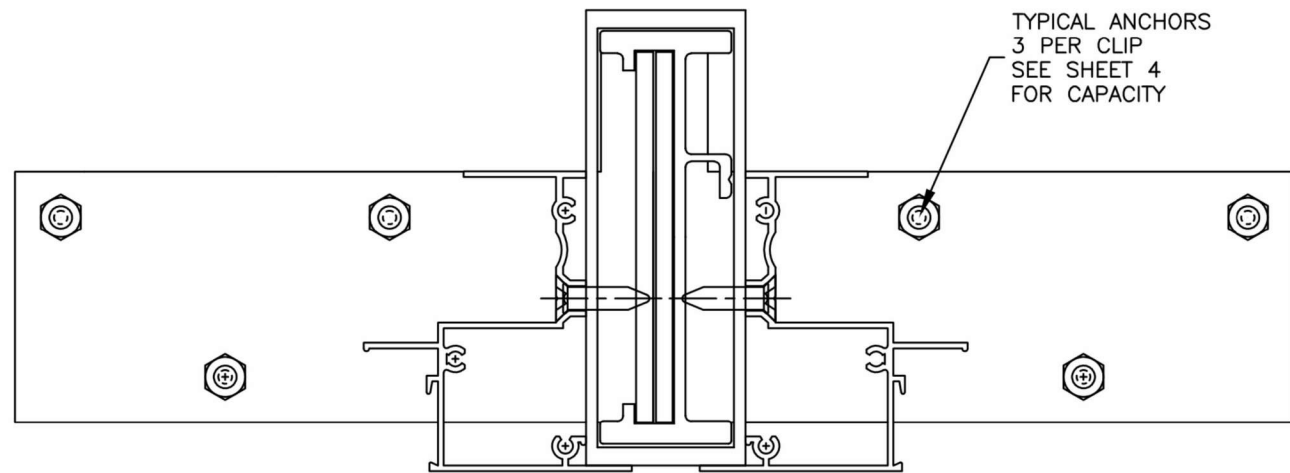
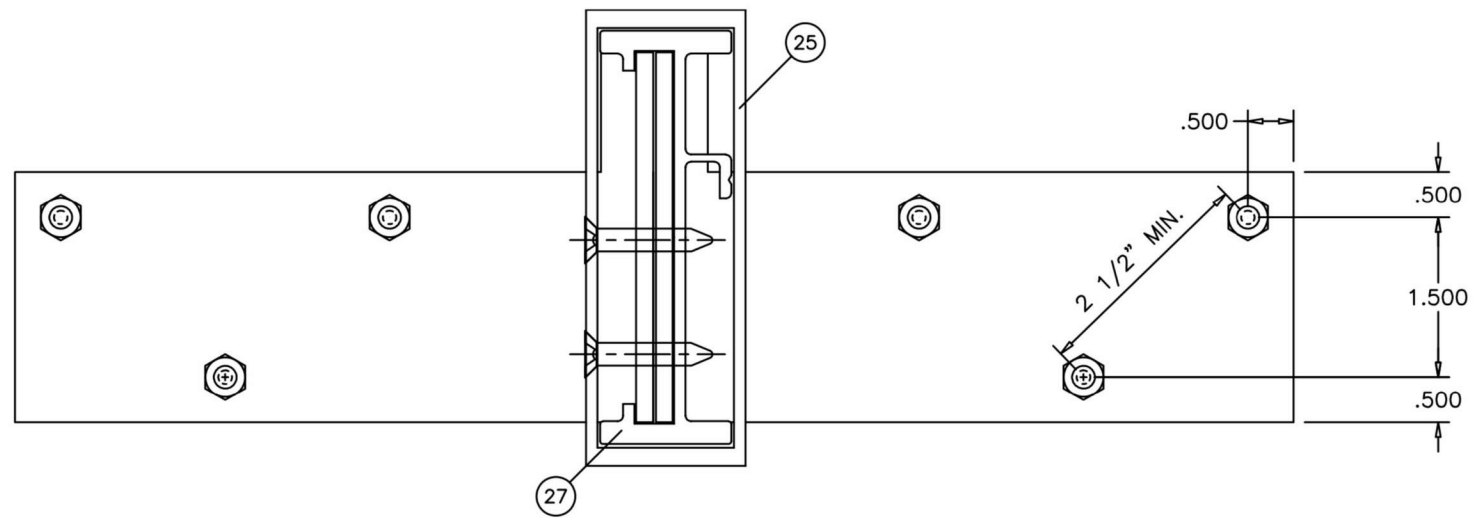
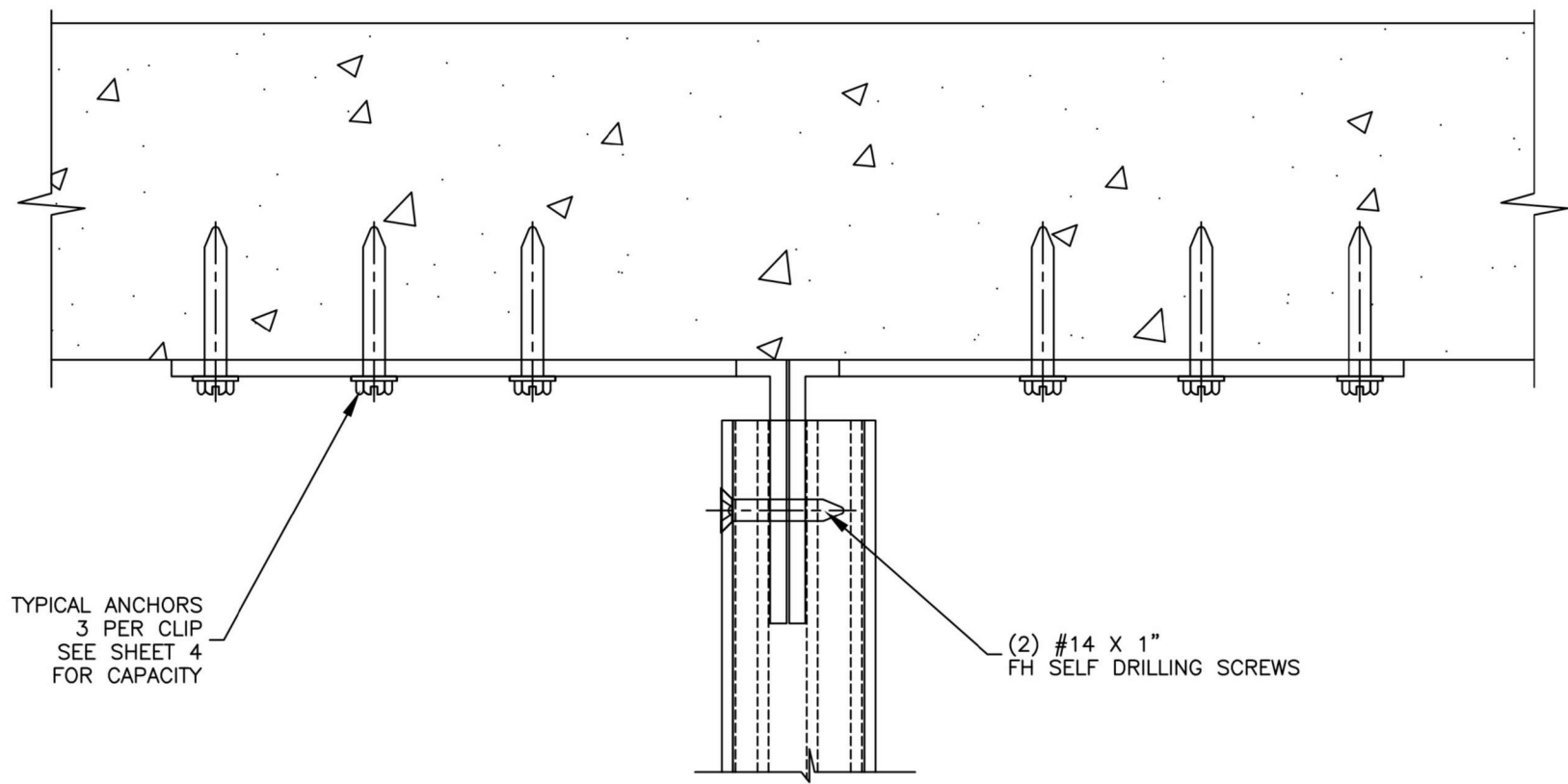


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**INSTALLATION DETAILS WITH FLUSH FRAME ADAPTER**  
SEE SHEET 5 THRU 7 FOR WINDOW DETAILS



WINDOW WIDTH

WINDOW WIDTH

EXTERIOR

FL#40096.8



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| ITEM # | PART #       | QUANTITY  | DESCRIPTION                                  | MATERIAL   | MANF./SUPPLIER/REMARKS |
|--------|--------------|-----------|----------------------------------------------|------------|------------------------|
| 1      | E151         | 1         | FRAME HEAD                                   | 6063-T6    | —                      |
| 2      | E165         | 1         | INTERMEDIATE SILL                            | 6063-T6    | —                      |
| 3      | E153         | 2         | FRAME JAMB                                   | 6063-T6    | —                      |
| 4      | E154         | 1         | FIXED MTG. RAIL                              | 6063-T6    | —                      |
| 5      | E155         | 1         | VENT TOP RAIL                                | 6063-T6    | —                      |
| 6      | E156         | 1         | VENT BOTTOM RAIL                             | 6063-T6    | —                      |
| 7      | E157         | 2         | VENT SIDE RAIL                               | 6063-T6    | —                      |
| 8      | E159         | AS REQD.  | GLAZING BEAD (LAM. GLASS)                    | 6063-T6    | —                      |
| 8A     | E158         | AS REQD.  | GLAZING BEAD (INSUL. LAMI. GLASS)            | 6063-T6    | —                      |
| 9      | FY116        | 2/VENT    | SASH STOP                                    | 6063-T5    | —                      |
| 10     | E162         | AS REQD.  | SCREW COVER                                  | RIGID PVC  | —                      |
| 12     | SL203P       | 2/VENT    | SWEEP LATCH, AT 12" FROM ENDS                | ZAMAK      | —                      |
| 12A    | #8 X 5/8"    | 2/LATCH   | LATCH INSTALL SCREWS                         | ST. STEEL  | —                      |
| 13     | —            | AS REQD.  | SETTING BLOCK                                | EPDM       | SULLIVAN & ASSOC.      |
| 14     | #10 X 1"     | AS REQD.  | FRAME & VENT ASSEMBLY SCREWS                 | CRS        | FH SMS                 |
| 14A    | #10 X 1-1/4" | 2/CORNER  | FLUSH FRAME ADAPTER ASSEMBLY SCREWS          | CRS        | DUROMETER 80±5 SHORE A |
| 15     | E207         | AS REQD.  | BOTTOM RAIL SEAL — SERIES 101                | NEOPRENE   | PH SMS                 |
| 16     | TR.3020      | AS REQD.  | GLAZING BEAD BULB                            | SANTOPRENE | FH SMS                 |
| 17     | E163         | 2/VENT    | SASH TOP GUIDE                               | DELRIN     | ULTRAFAB               |
| 18     | W23181       | AS REQD.  | FIN SEAL W'STRIPPING                         | —          | TECHNO RUBBER          |
| 19     | E164         | 4/VENT    | SASH SIDE GUIDE                              | DELRIN     | M&M PLASTICS           |
| 19A    | #6 X 3/8"    | 1/GUIDE   | SASH GUIDE INSTALL SCREW                     | CRS        | OH SMS TYPE B          |
| 20     | F210         | 2/VENT    | SASH BALANCE                                 | —          | VARIOUS                |
| 20A    | #8 X 1"      | 1/BALANCE | BALANCE INSTALL SCREW                        | ST. STEEL  | FH SMS                 |
| 20B    | 21B02 UEK    | 1/BALANCE | BALANCE BRACKET                              | STEEL      | CALDWELL               |
| 20C    | #8 X 1/2"    | 2/BRACKET | BRACKET FASTENER                             | ST. STEEL  | PH SMS                 |
| 21     | —            | AS REQD.  | GLASS SPACER                                 | SILICONE   | FRANK LOWE             |
| 22     | —            | 1         | 5/16" BOX SCREEN                             | —          | OPTIONAL               |
| 23     | E161         | —         | FLUSH FRAME ADAPTER                          | 6063-T6    | OPTIONAL               |
| 24     | —            | —         | INSUL. GLASS EDGE SPACER                     | —          | VARIOUS                |
| 25     | E168         | —         | MULLION                                      | 6063-T6    | —                      |
| 26     | E169         | AS REQD.  | MULLION CLIP, REQD. FOR LOADS ABOVE 70.0 PSF | 6063-T6    | —                      |
| 27     | UW-408       | —         | MULLION INSERT                               | 6063-T6    | —                      |
| 28     | —            | —         | MULLION REINFORCING BAR                      | STEEL      | A36, Fu MIN. 58 KSI    |

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| drawing no. | JA-1844-24 | drawn by: | MA          |
|             | date:      | check by: | BS          |
| REVISION    |            |           |             |
| No.         | DATE       | BY        | DESCRIPTION |
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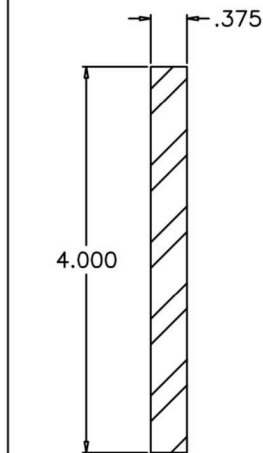
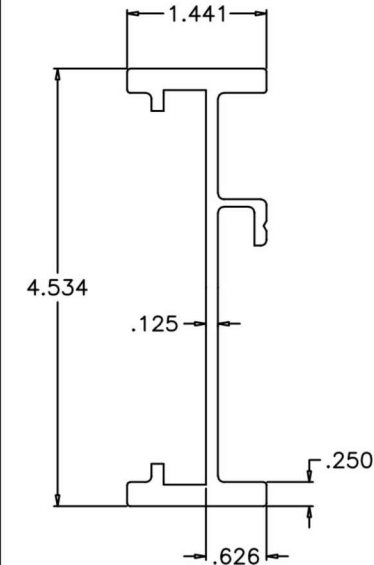
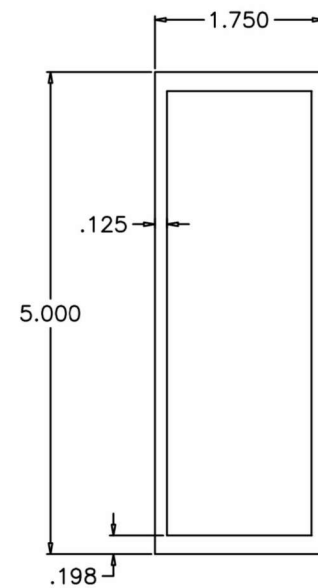
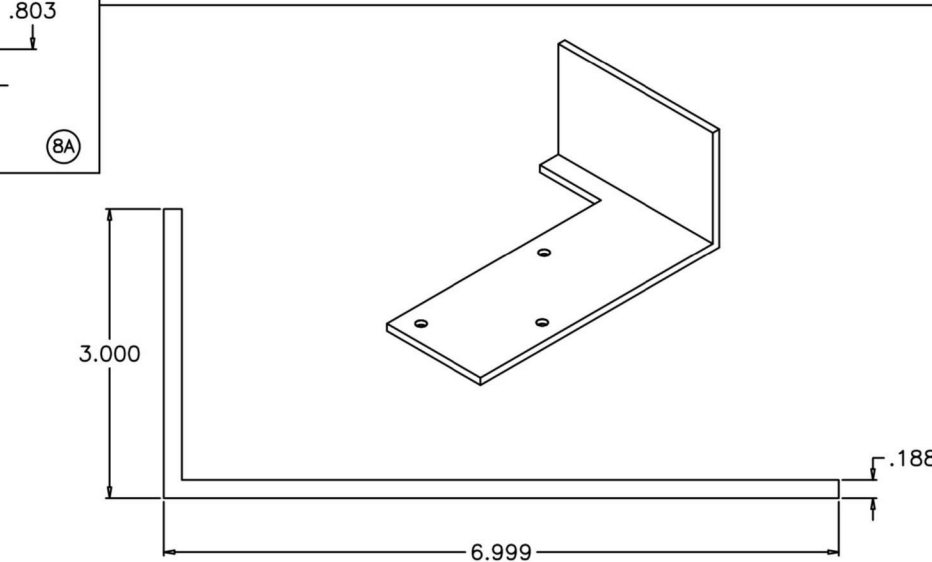
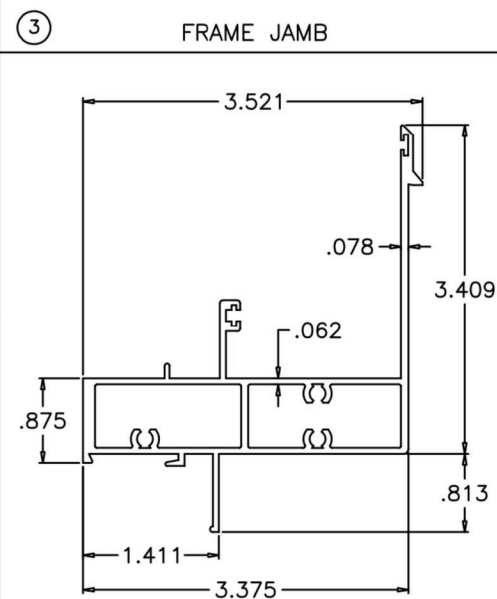
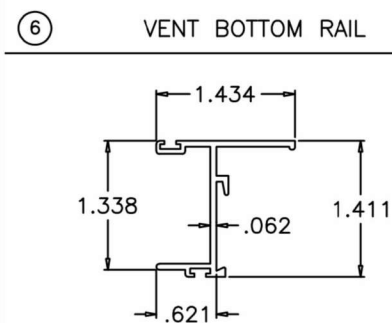
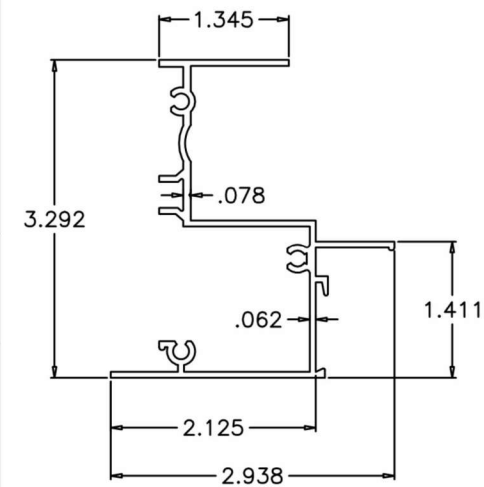
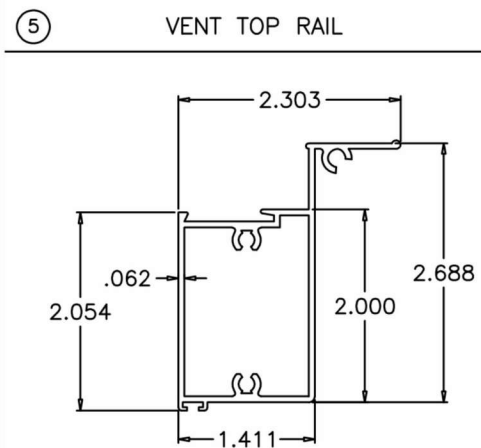
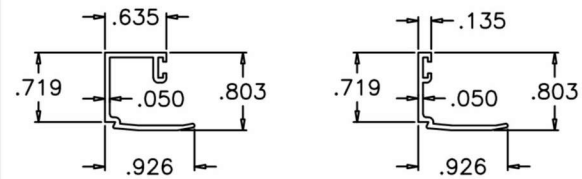
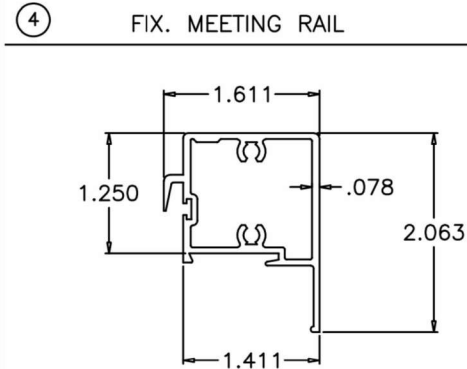
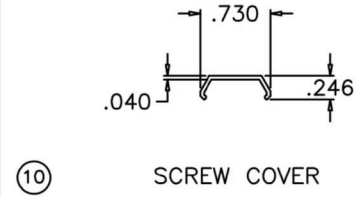
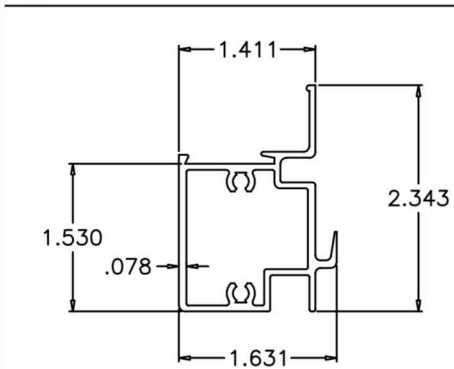
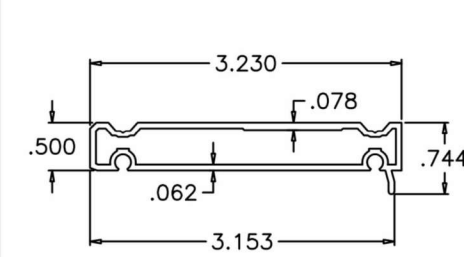
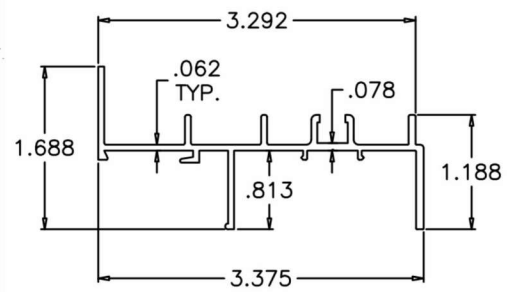
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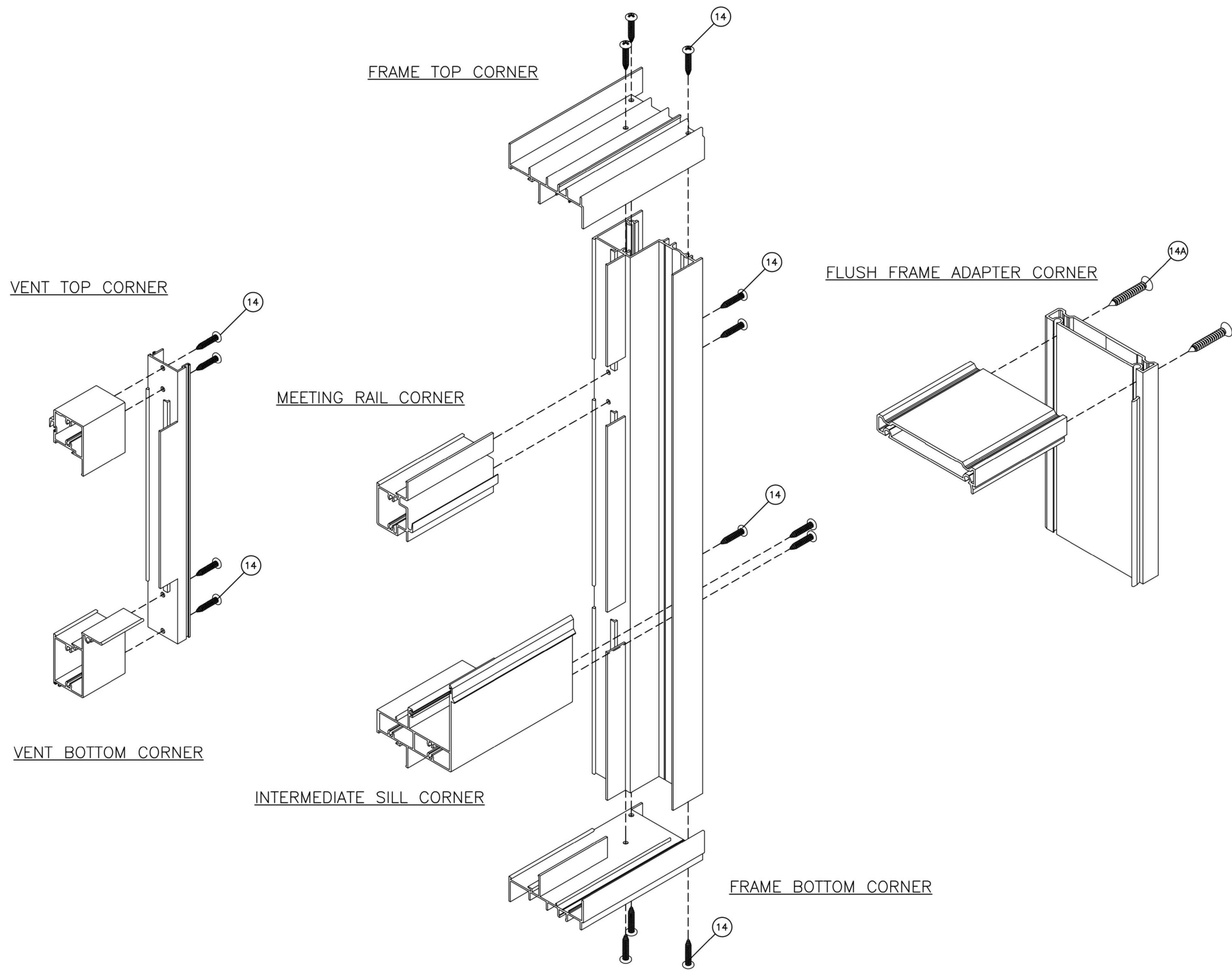


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